CYPRESS COVE **ABBREVIATIONS** A A PRESSURE TREATED WD H.R. HALF ROUN HWD HARDWOOD (FL R&M RANGE W/MICROWAY LIV LIVING LTL LINTEL LVR LOUVER MAX MAXIMUM DRY DRYER MACHINE TEMP TEMPERED (GLASS MISC MISCELLANE MULL MULLION(ED U.N.O. UNLLGGOTHERWISE EXTERIOR 0A OVERALL F.F. FINISH FLOOR (LINE OBS OBSCURE (GLA O.H. OVERHANI OPNG OPENING FLR FLOOR(ING WH WATER HEATER FP FIREPLACE OPT OPTIONAL WIC WALK-IN CLOSE FURRED(ING) PEDESTAL (SINK) FUR W/W/O WITH or WITHOU ROHND FAIL TERPROOF(ING) CIRCUIT INTERRU

GENERAL NOTES

1 - GENERAL BUILDING & DESIGN REQUIREMENTS

1) THE ATTACHED PLANS & SPECIFICATIONS ARE THE SOLE PROPERTY OF TRI POINTE HOMES ANY UNAUTHORIZED USE OF THESE PLANS WITHOUT PRIOR WRITTEN CONSENT OF TRI POINTE HOMES IS STRICTLY

2) TRI POINTE HOMES DESIGNS & BUILDS HOUSING AS SET FORTH BY THE FORMAT AND PROVISIONS OF TH INTERNATIONAL RESIDENTIAL CODE (IRC), AND THE NATIONAL ELECTRIC CODE (NEC). ANY NON-CONFORMING DOCUMENTS DISCOVERED BY THE CONTRACTOR OR HIS AGENTS SHALL BE CALLED TO THE IMMEDIATE ATTENTION OF TRI POINTE HOMES BY CALLING (469)329-0470.

). THESE PLANS ARE SUBJECT TO MODIFICATIONS TO MEET CODE REQUIREMENTS AND/OR TO FACILITATE MECHANICAL/ ELECTRICAL/ PLUMBING INSTALLATION AND/ OR TO IMPLEMENT DESIGN IMPROVEMENTS. ANY

INTENTION TO MODIFY THESE PLANS MUST BE APPROVED IN WRITING BY TRI POINTE HOMES
4) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AFFECTING CONTRACTOR'S PRODUCTS, INSTALLATIONS, OR FABRICATIONS IN THE FIELD PRIOR TO EXPEDITING THE CONSTRUCTION OF SUCH WORK. FIELD VERIFY ALL DIMENSIONS — DO NOT SCALE DRAWINGS! CONTRACTOR IS RESPONSIBLE FOR SURVEYING THE PROJECT AND BECOMING FAMILIAR WITH THE EXISTING CONDITIONS AND SCOPE OF WORK INCLUDING BUT NOT LIMITED TO SITE AND SOIL BEARING CONDITIONS.
5) ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE

ATTENTION OF THE ARCHITECT, IN WRITING, AND WRITTEN INSTRUCTION SHALL BE OBTAINED PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ERRORS, DISCREPANCIES, OR OMISSIONS FOR WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION AND/ OR FABRICATION OF THE WORK.

2 - SITE CONSTRUCTION

) BACK FILL SHALL BE FREE FROM VEGETATION AND CONSTRUCTION DEBRIS

) BACK FILL SHALL BE PLACED IN LIFTS AND COMPACTED IN SUCH A MANNER AS BACKFILL TO NOT DAM. THE FOUNDATION WALLS OR ANY WATERPROOFING/ DAMPPROOFING MATERIALS.

3 - CONCRETE

1) SLOPE ON GARAGE SLAB SHALL BE 1/8" PER FOOT TOWARDS VEHICLE DOOR. SLOPE ON PORCH AND

4 - MASONRY

ALL EXTERIOR BRICK MUST MEET ASTM C-216 FOR "SW" CONDITIONS

2) MASONRY VENEER SHALL BE ATTACHED TO SUPPORTING WALLS w/ CORRUGATED METAL TIES IN ACCORDANCE WITH R703.7.4.1 - I.R.C. OR LOCAL CODE REQUIREMENTS

) WEEPHOLES SHALL BE PROVIDED ALONG THE OUTSIDE WYTHE OF EXTERIOR MASONRY WALLS AT 33" O.C. MAX, SHALL BE A MIN. OF 3/16" IN DIAMETER, AND LOCATED IMMEDIATELY ABOVE THE FLASHING PER 18703.7.6 – LR.C.

5 - METALS

6 - WOOD AND PLASTICS

7 - THERMAL & MOISTURE PROTECTION

) Fire stopping and/ or draft stopping shall meet the requirements of IRC R602.8. 2) Attic ventilation shall be provided at 1/300 th of the Area of the Space ventilated. Cross VENTILATION WITH HALF OF THE VENTILATED AREA SHALL BE PROVIDED BY ROOF VENTS AND THE OTHER HALF BY SOFFIT VENTS. VENTS SHALL BE PLACED SO AS TO NOT ALLOW INFILTRATION OF RAIN OR SNOW. S) PROVIDE APPROVED TILE BACKER DRYWALL FOR ALL SHOWER AND BATH SPACE) PROVIDE ATTIC VENTILATION PER IRC-R806.1

8 - DOORS AND WINDOWS

-) REVIEW ALL WINDOW HDR HEIGHTS PER PLATE HT. AND VERIFY W/ ELEVATIONS AND CORNICE DETAILS TEMPERED GLASS SHALL BE USED IN HAZARDOUS AREAS AS DESCRIBED IN SECTION R308.4 - LR.C.
- FRONT DOOR WIDTH PER IRC-R311.3
- GARAGE DOOR PER IRC-R309.1

FMERGENCY EGRESS SHALL MEET REQUIREMENTS OF SECTION R310 - LR C 2018 - SLEEPING ROOMS HALL HAVE AT LEAST ONE EGRESS OPENING OF NOT LESS THAN 5.7 SF AND A CLEAR OPENING OF NOT IFSS THAN 20" WIDE X 24" HIGH AND SHALL NOT BE MORE THAN 44" ABOVE THE FLOOR

15 - MECHANICALS

WOOD BUILT CHIMNEYS AND FIREPLACES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RE SUBJECT TO MECHANICAL INSPECTION PER IRC SECTION R1002.1) EXTERIOR AIR INTAKE FOR COMBUSTION AIR PER IRC SECTION AS REQUIRED BY LOCAL MUNICIPALITY

16 - ELECTRICAL

ALL FLECTRICAL INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC). MATERIAL AND EQUIPMENT SHALL BEAR THE LABEL OF APPROVAL OF THE UNDERWRITERS ABORATORIES, INC.

) ELECTRICAL CONTRACTOR SHALL VERIFY SPACE REQUIRED FOR METER INSTALLATION BEFORE ONSTRUCTION AND SHALL NOTIFY GENERAL CONTRACTOR OF ANY DISCREPANCIES.

VERIFY LOCATION OF ALL RECEPTACLES FOR APPLIANCES WITH MANUFACTURER SPECIFICATIONS. GROUND FAULT INTERRUPTS SHALL BE LOCATED PER THE NEC

ALL SWITCHES SHALL BE INSTALLED AT 3'-6" ABOVE FINISHED FLOOR TO CENTERLINE OF SWITCH VLESS NOTED OTHERWISE

) ALL CONVENIENCE OUTLETS SHALL BE INSTALLED W/ CENTERLINE OF OUTLET LOCATED 1'-3" ABOVE INISHED FLOOR UNLESS NOTED OTHERWISE

ALL CONVENIENCE OUTLETS WITH SWITCHES TO BE SWITCH AT TOP ONLY.

ALL EXTERIOR WALL BRACKET FIXTURES SHALL BE INSTALLED AS NOTED ON PLANS.

APPROVED SMOKE DETECTORS SHALL BE LOCATED ON EVERY STORY OF THE DWELLING UNIT AS PER IRC CTION R317 (SEE SHEET B1.1 FOR LOCATIONS). WHERE MORE THAN ONE DETECTOR IS REQUIRED THEY SHALL BE INTERCONNECTED. POWER SOURCE SHALL BE BUILDING POWER w/ BATTERY BACKUP.)) CONDUCTORS SHALL BE OF COPPER.

GENERAL FRAMING SPECS AND CONSTRUCTION NOTES STAIRS:

1) THE MAXIMUM RISER HEIGHT SHALL BE 7 3/4 INCHES AND THE MINIMUM TREAD DEPTH SHALL BE 10 CHES IN ACCORDANCE WITH SECTION I.R.C.

HANDRAILS HAVING MINIMUM AND MAXIMUM HEIGHTS OF 34 INCHES AND 38 INCHES SHALL BE OVIDED ON AT LEAST. ONE SIDE OF STAIRWAYS IN ACCORDANCE WITH SECTION R315.1 — I.R.C HANDRAIL AND BALUSTRADE (WHERE PRESENT) SHALL BE CONSTRUCTED. ACCORDING TO IRC. ALL REQUIRED HAND RAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS W/ 2 OR MORE SERS FROM A POINT ABOVE THE THE TOP RISER OF A FLIGHT TO A POINT ABOVE THE LÓWEST RISER OF THE FLIGHT. ENDS SHALL BE RETURNED OR SHALL TERMINATE AT NEWEL POSTS OR SAFETY TERMINALS. ANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1.5" BETWEEN THE WALL

WALLS:

) ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD. ALL STUDS ARE 3 1/2" UNLESS NOTED. ALL DIMENSIONS PRESENTED HERE ARE FRAME DIMENSIONS ONLY.

I SEPARATION BETWEEN THE RESIDENCE AND THE GARAGE SHALL BE MAINTAINED BY INSTALLATION OF $rac{1}{2}"$ GYPSUM BOARD ON ALL COMMON WALLS. 2-STORY HOMES REQUIRE 5/8" TYPE X GYPSUM BOARD AT GARAGE CEILINGS WHERE HABITABLE ROOMS ARE PRESENT ABOVE.

FLOORS:

STRUCTURAL FLOOR MEMBERS SHALL NOT BE CUT, BORED, OR NOTCHED IN EXCESS OF THE LIMITATIONS ECIFIED IN IRC

) THE ENDS OF EACH JOIST, BEAM, OR GIRDER SHALL HAVE NOT LESS THAN 1.5 INCHES OF BEARING ON WOOD OR METAL AND NOT LESS THAN 3 INCHES ON MASONRY OR CONCRETE OR AS OTHERWISE SPECIFIED

) ALL DIMENSIONAL FLOOR JOISTS TO BE PER ENGINEER STRUCTURAL PLANS.

FRAMING:

ALL FRAMING DIMENSIONS TO FACE OF MEMBER.

ALL BEARING HEADERS TO BE PER ENGINEERING PLANS. FIRE STOPPING AND / OR DRAFT STOPPING SHALL MEET THE REQUIREMENTS OF IRC R602.8.

ROOF

HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT RIDGE DOWN TO BEARING PARTITION, CUT ENDS OF RAFTERS SHALL BE FULLY SUPPORTED WALL AND RIDGE

REQUIRED VENTILATION AREAS CALCULATED AT 1/300 RATIO

SQUARE FOOTAGE

Elevation "B"

(Slab S.F.) VERED OUTDOOR LIVING

(Outside of Frame	S.F.)
A/C Area	Sq. Ft.
FIRST FLOOR	1767
Total A/C Area	1767
Non-A/C Area	Sq. Ft.
2 BAY GARAGE	428
PORCH	172
COVERED OUTDOOR LIVING	153
Total Non-A/C Area	753

(Inside of Frame S.F.)	
/C Area	Sq. Ft.
IRST FLOOR	1718
otal A/C Area 1718	

	OPTIONS	
LOFT		+569

LOT 373 5920-04 **CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE**

UNDER 9.000 FT² -FIRE-RATED WALL REQUIRED AT **GARAGE SIDE &** NON-GARAGE SIDE

BUILDING CODE COMPLIANCE

CONSTRUCTION PLANS DESIGNED TO MEET OR EXCEED MINIMUM CODE REQUIREMENTS OF 2018 LR (

LECTRICAL PLANS DESIGNED TO MEET OR EXCEED MINIMUM

TABLE OF CONTENTS

		SHEET LEGEND
	SHEET NO.	TYPE OF SHEET/LAYOUT
	"G0.01"	COVER SHEET & GEN. NOTES
	"G0.11"	REVISIONS & SYMBOLS
	"S1.10B"	BASE FOUNDATION PLAN — ELEVATION 'B'
	"A1.10B"	FIRST FLOOR PLAN - ELEVATION 'B'
	"01.A10"	FLOOR PLAN OPTIONS
	"01.A20"	2ND FLOOR PLAN OPTION
	"A2.01B"	EXTERIOR ELEVATIONS - 'B'
	"A2.02B"	EXTERIOR ELEVATIONS - 'B'
	"A2.03B"	EXTERIOR ELEVATIONS OPTION — 'B'
	"A2.04B"	EXTERIOR ELEVATIONS OPTION — 'B'
	"A3.01B"	ROOF PLAN — ELEVATION 'B'
	"A4.01"	INTERIOR DETAIL SHEET
	"E1.10B"	1ST FLR. ELECTRICAL PLAN — ELEVATION 'B'
	"E1.11B"	1ST FLR. ELECTRICAL PLAN UPGRADE OPTIONS — ELEVATION 'B'
	"01.E10"	1ST FLR. ELECTRICAL PLAN OPTIONS
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	"01.E11"	1ST FLR. ELECTRICAL PLAN UPGRADE OPTIONS
	"01.E21"	2ND FLR. ELECTRICAL PLAN UPGRADE OPTION
	"D1.0"	DETAILS
	"D2.0"	GRAB BAR PARTIAL PLANS

SELECTED OPTIONS

STANDARD PRIMARY SHOWER W/ OPT. TILE WALLS & TILE FLOOR PAN

*OPT. BATH 2 SHOWER ILO TUB W/ TILE WALLS

*OPT. BEDROOM 3 ILO FLEX SPACE

*OPT. SCREENED COVERED OUTDOOR LIVING

*OPT. STAINED MAHOGANY FRONT DOOR

*OPT. FIRE-RATED GARAGE SIDE

*OPT. FIRE-RATED NON-GARAGE SIDE



SYMBOLS

TOWEL RING

SHOWER HEAD

SHOWER CONTROLS

++



PEDESTAL SINK

WATER CLOSET

2x FRAME BRICK VENEER STONE VENEER

PLYWOOD

G0.01

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NOTES GENERAL

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SUBDIVISION: ALTIS @ ADDRESS: LOT: 373

10-13-24 Issue Date: ACC

5920-04

CYPRESS COVE

REVISION INDEX			
REL. #	DESCRIPTION	DATE	DRAWN BY
5920-04	NEW PLAN	10/13/2024	ACC
	ADDED ATTIC PULL-DOWN, REVISED ROD/SHELF IN PRIMARY WIC, ADDED OPTIONS — SCREENED COVERED OUTDOOR LIVING, GOURMET KITCHEN KITCHEN, ZERO ENTRY SHOWER AT PRIMARY BATH, ADDED TRIM SURROUNDING VENTS AT VARIOUS ELEVATIONS, REVISED BENCH DETAIL, ADDED OPT. LAUINDRY, CABINETS, ADDED (2) 4—LED LIGHTS IN GARAGE, REVISED ELECT LIGHTING AND SWITCHES IN PRIMARY BATH, ADDED DISHWASHER ACCESSIBLE DISCONNECT SWITCH AND COUNTER-TOP AIR SWITCH FOR DISPOSAL NOTES	01/19/2025	ACC
	ADDED SHOWER NICHE NOTE, ADDED CURB TO SHOWERS, REVISED INT/EXT FIREPLACE DEPTHS, REVISED OPENING HEADER HEIGHTS THROUGHOUT, REVISED BEAR EXTERIOR DOOR TO 3, REVISED DROP ZONE AREA, ADDED DOOR HEIGHTS TO MAIN FLOOR NOTES, ADDED ZERO ENTRY SHOWER DETAIL, REMOVED PRIMARY BATH 2 OPTION, ADDED OUTDOOR LIVING PATIO OPTION, ADDED PARTIAL SHOWER NICHE DETAIL, ADDED COURMET KITCHEN INTERIOR, REVISED ELECTRICAL / ELECTRICAL OPTION AT GREAT ROOM AND PRIMARY BATH.	04/22/2025	ACC
	ADDED TYPICAL CLOSET ROD AND SHELF DETAILS, ADDED SHOWER NICHE DETAILS, REVISED PANTRY SHELVES TO 4, REMOVED KITCHEN ISLAND "TOP SIZE" NOTE, ADDED TOWEL HOOK IN PRIMARY BATH, ADDED GABLE WINDOW DIMENSIONS, REVISED TYPICAL BENCH DETAIL, ADDED VARIOUS ELECTRICAL NOTES, ADDED SWITCHES TO OPTIONAL ELECTRICAL SHEETS,	07/31/2025	ACC
	ADDED OPTIONAL BEAMS IN PRIMARY SUITE, ADDED OPTIONAL GRAB BARS IN ALL BATHS, REVISED TOWEL BAR AND HOLDER HEIGHTS	09/06/2025	ACC

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ADDRESS: 42 SHADY CREEK WAY,
FUQUAY-VARINA, NC 27526
LOT: 373
BLOCK:

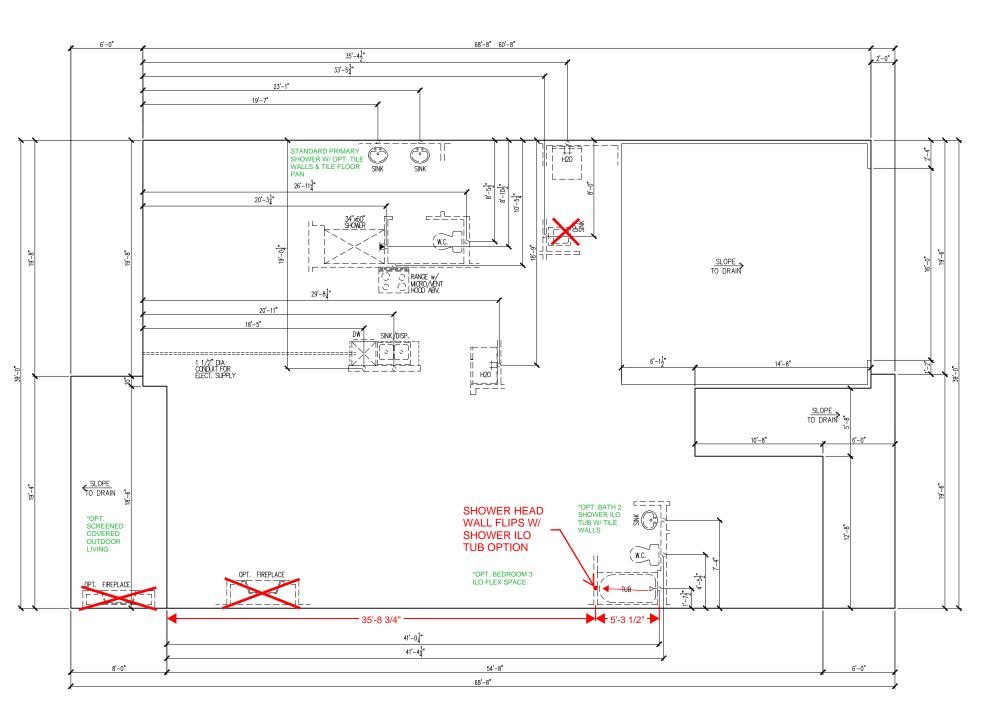
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CYPRESS COVE

G0.11



UNDER 9,000 FT² -FIRE-RATED WALL REQUIRED AT GARAGE SIDE & NON-GARAGE SIDE

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HOMES

HOMES

400 WADE PARK BLVD, SUITE 400, RALEIGH, NC 27607

5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

N PLAN

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5920-04

CYPRESS COVE

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SELECTED OPTIONS

STANDARD PRIMARY SHOWER W/ OPT. TILE WALLS & TILE FLOOR PAN

*OPT. BATH 2 SHOWER ILO TUB W/ TILE WALLS

*OPT. BEDROOM 3 ILO FLEX SPACE

*OPT. SCREENED COVERED OUTDOOR LIVING

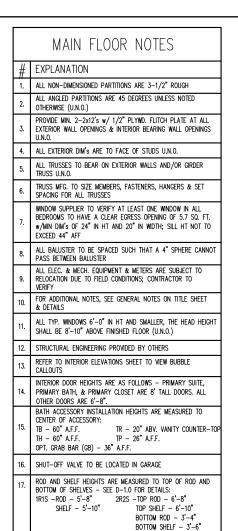
*OPT. STAINED MAHOGANY FRONT DOOR

*OPT. FIRE-RATED GARAGE SIDE *OPT. FIRE-RATED NON-GARAGE SIDE

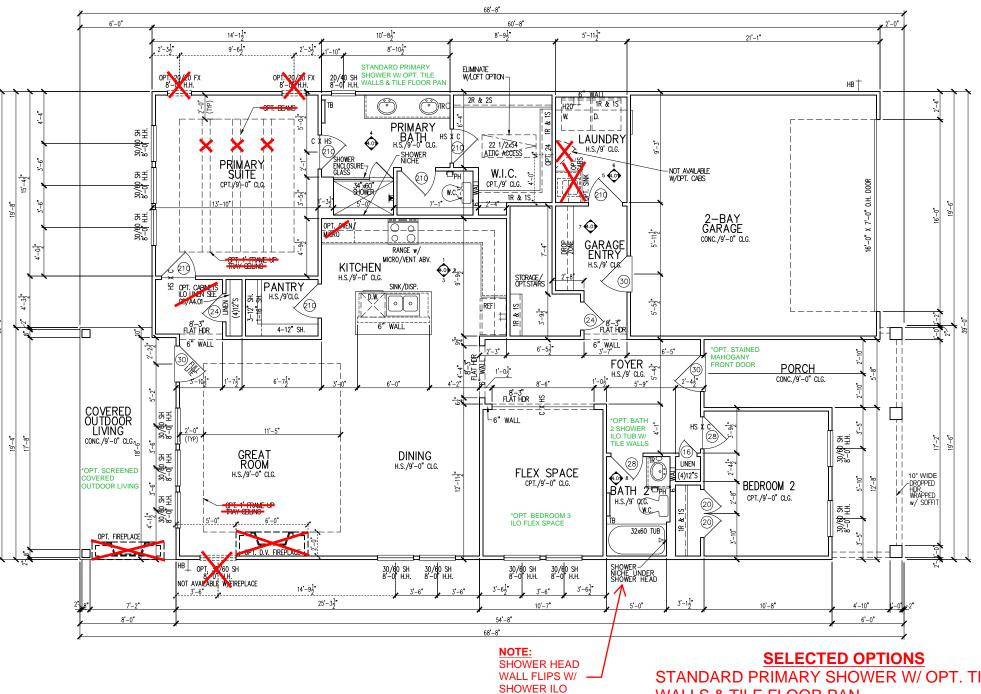
LOT 373 5920-04 CYPRESS COVE

ELEVATION B RIGHT-HAND GARAGE

S COVE



UNDER 9,000 FT² -FIRE-RATED WALL REQUIRED AT GARAGE SIDE & NON-GARAGE SIDE



TUB OPTION

LOT 373 5920-04 **CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE**

STANDARD PRIMARY SHOWER W/ OPT. TILE WALLS & TILE FLOOR PAN

*OPT. BATH 2 SHOWER ILO TUB W/ TILE WALLS

*OPT. BEDROOM 3 ILO FLEX SPACE

*OPT. SCREENED COVERED OUTDOOR LIVING *OPT. STAINED MAHOGANY FRONT DOOR

*OPT. FIRE-RATED GARAGE SIDE

*OPT. FIRE-RATED NON-GARAGE SIDE

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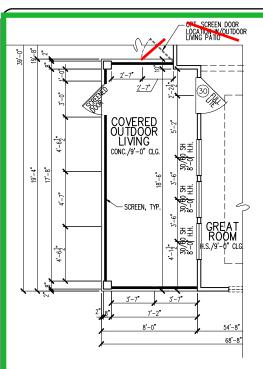
PLAN FLOOR SUBDIVISION: ALTIS @ 1stADDRESS:4 LOT: 373

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5920-04

CYPRESS COVE

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OPT. SCREENED COVERED OUTDOOR LIVING PARTIAL FLOOR PLAN

MAIN FLOOR NOTES

EXPLANATION

ALL NON-DIMENSIONED PARTITIONS ARE 3-1/2" ROUGH

OTHERWISE (U.N.O.)

PROVIDE MIN. 2-2x12's w/ 1/2" PLYWD. FLITCH PLATE AT ALL EXTERIOR WALL OPENINGS & INTERIOR BEARING WALL OPENINGS

ALL EXTERIOR DIM'S ARE TO FACE OF STUDS U.N.O.

ALL TRUSSES TO BEAR ON EXTERIOR WALLS AND/OR GIRDER TRUSS U.N.O.

TRUSS MFG. TO SIZE MEMBERS, FASTENERS, HANGERS & SET SPACING FOR ALL TRUSSES

WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ. FT. $\mbox{\ensuremath{\text{w/MIN}}}$ DIM's OF 24" IN HT AND 20" IN WIDTH; SILL HT NOT TO

ALL BALUSTER TO BE SPACED SUCH THAT A 4" SPHERE CANNO PASS BETWEEN BALUSTER

ALL ELEC. & MECH. EQUIPMENT & METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS; CONTRACTOR TO VERIFY

FOR ADDITIONAL NOTES, SEE GENERAL NOTES ON TITLE SHEET & DETAILS

ALL TYP. WINDOWS 6'-0" IN HT AND SMALLER, THE HEAD HEIGHT SHALL BE 8'-10" ABOVE FINISHED FLOOR (U.N.O.)

STRUCTURAL ENGINEERING PROVIDED BY OTHERS

REFER TO INTERIOR ELEVATIONS SHEET TO VIEW BUBBLE CALLOUTS

INTERIOR DOOR HEIGHTS ARE AS FOLLOWS - PRIMARY SUITE, PRIMARY BATH, & PRIMARY CLOSET ARE 8' TALL DOORS. ALL OTHER DOORS ARE 6'-8".

BATH ACCESSORY INSTALLATION HEIGHTS ARE MEASURED TO CENTER OF ACCESSORY:

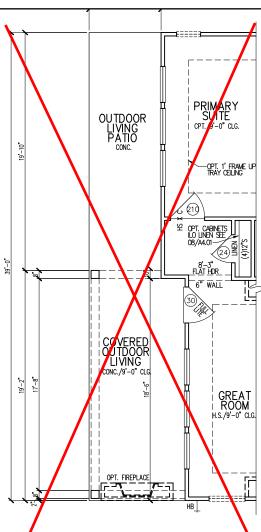
TB - 60" A.F.F. TH - 60" A F.F.

TP - 26" A.F.F. OPT. GRAB BAR (GB) - 36" A.F.F.

SHUT-OFF VALVE TO BE LOCATED IN GARAGE

ROD AND SHELF HEIGHTS ARE MEASURED TO TOP OF ROD AND BOTTOM OF SHELVES — SEE D-1.0 FOR DETAILS: 2R2S -TOP ROD - 6'-8" SHELF - 5'-10" TOP SHELF - 6'-10"

BOTTOM ROD - 3'-4" BOTTOM SHELF - 3'-6"



OPT. OUTDOOR LIVING PATIO PARTIAL FLOOR PLAN

COOKTOP w/

VENT ABV.

SINK / DISP

6" WALL

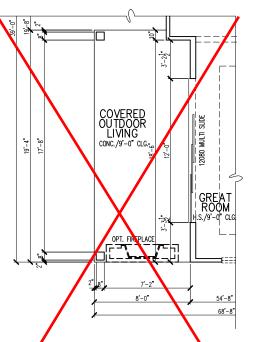
OPT/GOURMET 2

KITCHEN - PARTIAL

PARTIAL FLOOR PLAN

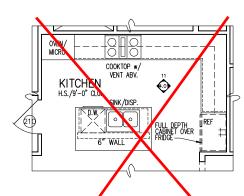
FULL DEPTH CABINET OVER FRIDGE

KITCHEN

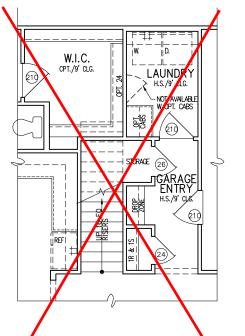


OP7. 12080 MULTI SLIDE DOOR AT GREAT ROOM PARTIAL FLOOR PLAN

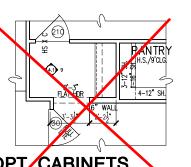




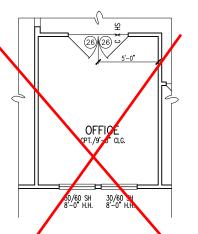
OPT/ GOURMET 1 KITCHEN - PARTIAL PARTIAL FLOOR PLAN



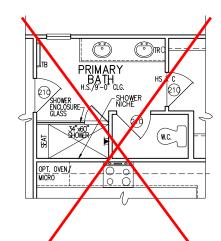
OP/ SECOND FLOOR STAIR PARTIAL FLOOR PLAN



OPT CABINETS
ILO LINEN CLOSET
PARTIAL FLOOR PLAN



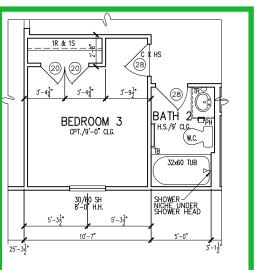
OPT. OFFICE ILO FLEX SPACE PARTIAL FLOOR PLAN



OPT. PRIMARY BATH 1 PARTIAL FLOOR PLAN



OPT DOOR FROM PRIM. W.I.C TO LAUNDRY PARTIAL FLOOR PLAN



OPT. BEDROOM 3 ILO FLEX SPACE PARTIAL FLOOR PLAN

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Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

OPTIONS SERENITY EEK WAY, INA, NC 275 PLAN SUBDIVISION: ALTIS @ FLOOR

ADDRESS: LOT: 373

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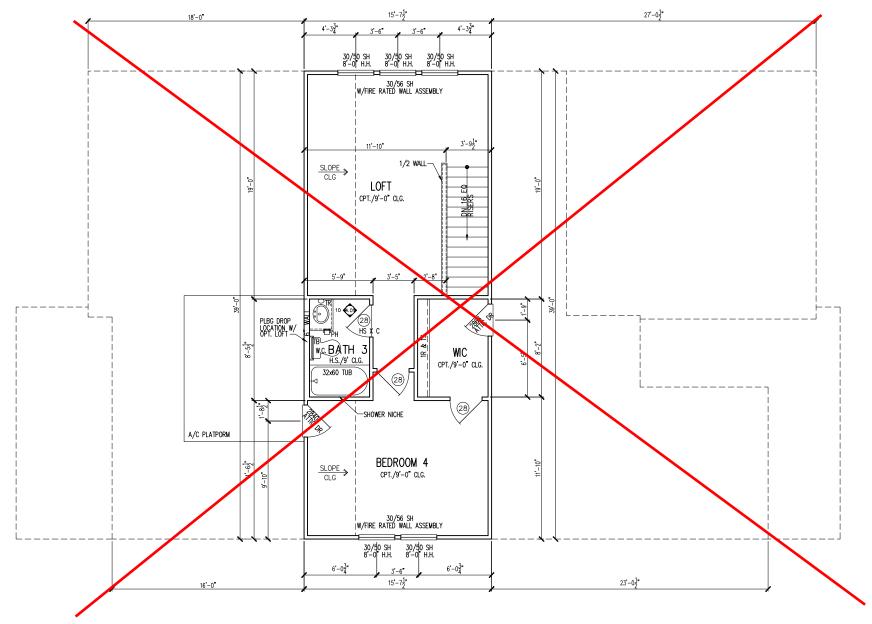
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CYPRESS COVE

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MAIN FLOOR NOTES EXPLANATION ALL NON-DIMENSIONED PARTITIONS ARE 3-1/2" ROUGH ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS NOTED OTHERWISE (U.N.O.) PROVIDE MIN. 2-2x12's w/ 1/2" PLYWD. FLITCH PLATE AT ALL EXTERIOR WALL OPENINGS & INTERIOR BEARING WALL OPENINGS 4. ALL EXTERIOR DIM'S ARE TO FACE OF STUDS U.N.O. ALL TRUSSES TO BEAR ON EXTERIOR WALLS AND/OR GIRDER TRUSS U.N.O. TRUSS MFG. TO SIZE MEMBERS, FASTENERS, HANGERS & SET SPACING FOR ALL TRUSSES WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ. FT. w/MIN DIM's OF 24" IN HT AND 20" IN WIDTH; SILL HT NOT TO ALL BALUSTER TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS BETWEEN BALUSTER ALL ELEC. & MECH. EQUIPMENT & METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS; CONTRACTOR TO FOR ADDITIONAL NOTES, SEE GENERAL NOTES ON TITLE SHEET ALL TYP. WINDOWS 6'-0" IN HT AND SMALLER, THE HEAD HEIGHT 12. STRUCTURAL ENGINEERING PROVIDED BY OTHERS REFER TO INTERIOR ELEVATIONS SHEET TO VIEW BUBBLE CALLOUTS INTERIOR DOOR HEIGHTS ARE AS FOLLOWS - PRIMARY SUITE, PRIMARY BATH, & PRIMARY CLOSET ARE 8' TALL DOORS. ALL OTHER DOORS ARE 6'-8". BATH ACCESSORY INSTALLATION HEIGHTS ARE MEASURED TO CENTER OF ACCESSORY: TR - 20" ABV. VANITY COUNTER-TO TP - 26" A.F.F. TH - 60" A.F.F. OPT. GRAB BAR (GB) - 36" A.F.F. SHUT-OFF VALVE TO BE LOCATED IN GARAGE ROD AND SHELF HEIGHTS ARE MEASURED TO TOP OF ROD AND BOTTOM OF SHELVES - SEE D-1.0 FOR DETAILS: 1R1S -R0D - 5'-8" SHELF - 5'-10" 2R2S -TOP ROD - 6'-8" " TOP SHELF - 6'-10"

UNDER 9,000 FT² FIRE-RATED WALL
REQUIRED AT GARAGE
SIDE & NON-GARAGE SIDE



OPT. SECOND FLOOR PLAN PARTIAL FLOOR PLAN 1/8"=1"-0" SELECTED OPTIONS

STANDARD PRIMARY SHOWER W/ OPT. TILE WALLS & TILE FLOOR PAN

*OPT. BATH 2 SHOWER ILO TUB W/ TILE WALLS

*OPT. BEDROOM 3 ILO FLEX SPACE

*OPT. SCREENED COVERED OUTDOOR LIVING

*OPT. STAINED MAHOGANY FRONT DOOR

*OPT. FIRE-RATED GARAGE SIDE

*OPT. FIRE-RATED NON-GARAGE SIDE

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Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

NN - OPTION

FLOOR

2ND

SUBDIVISION: ALTIS @ SEREN ADDRESS:42 SHADY CREEK WA FUQUAY-VARINA, NC LOT:373 BLOCK:

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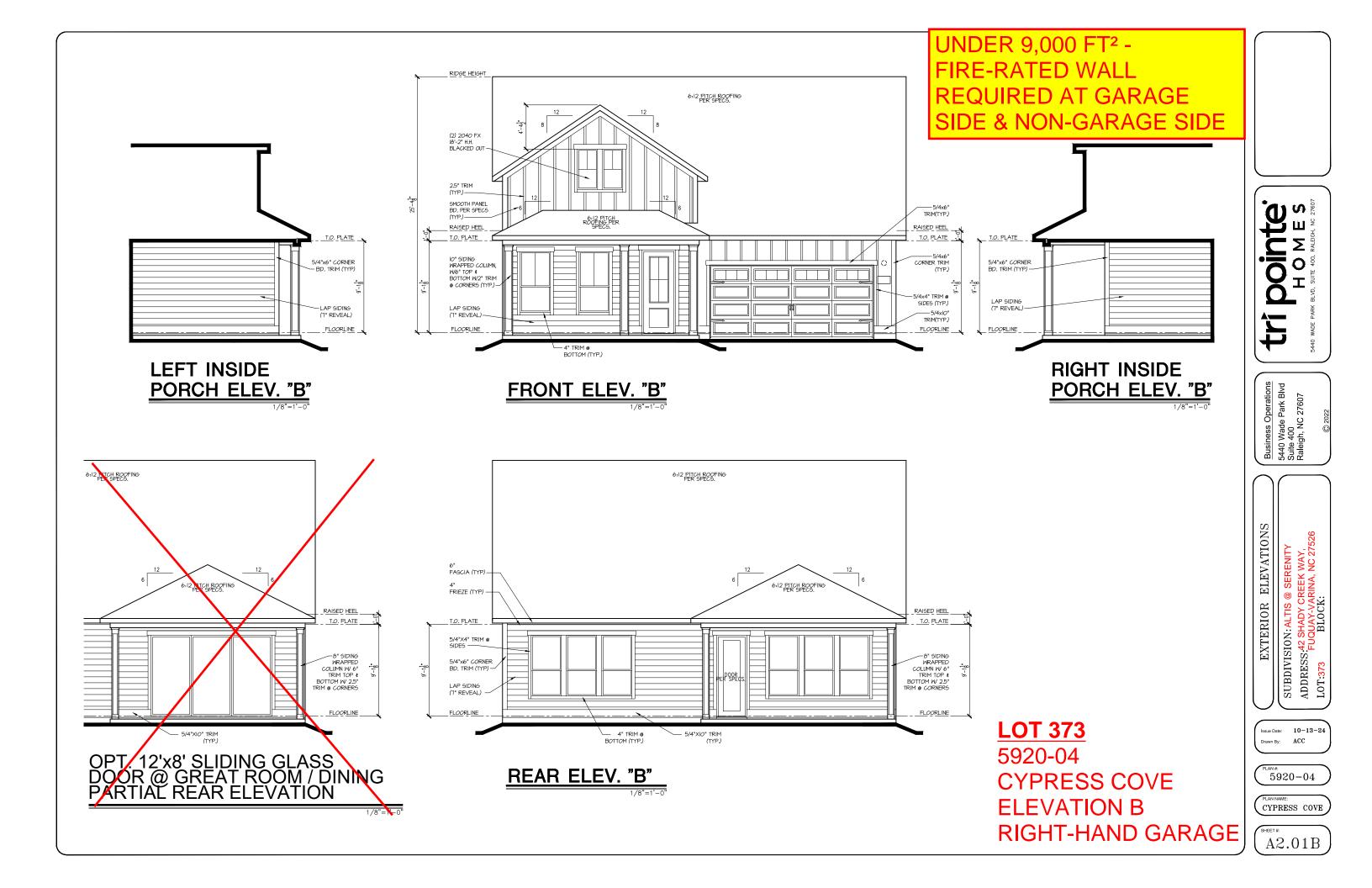
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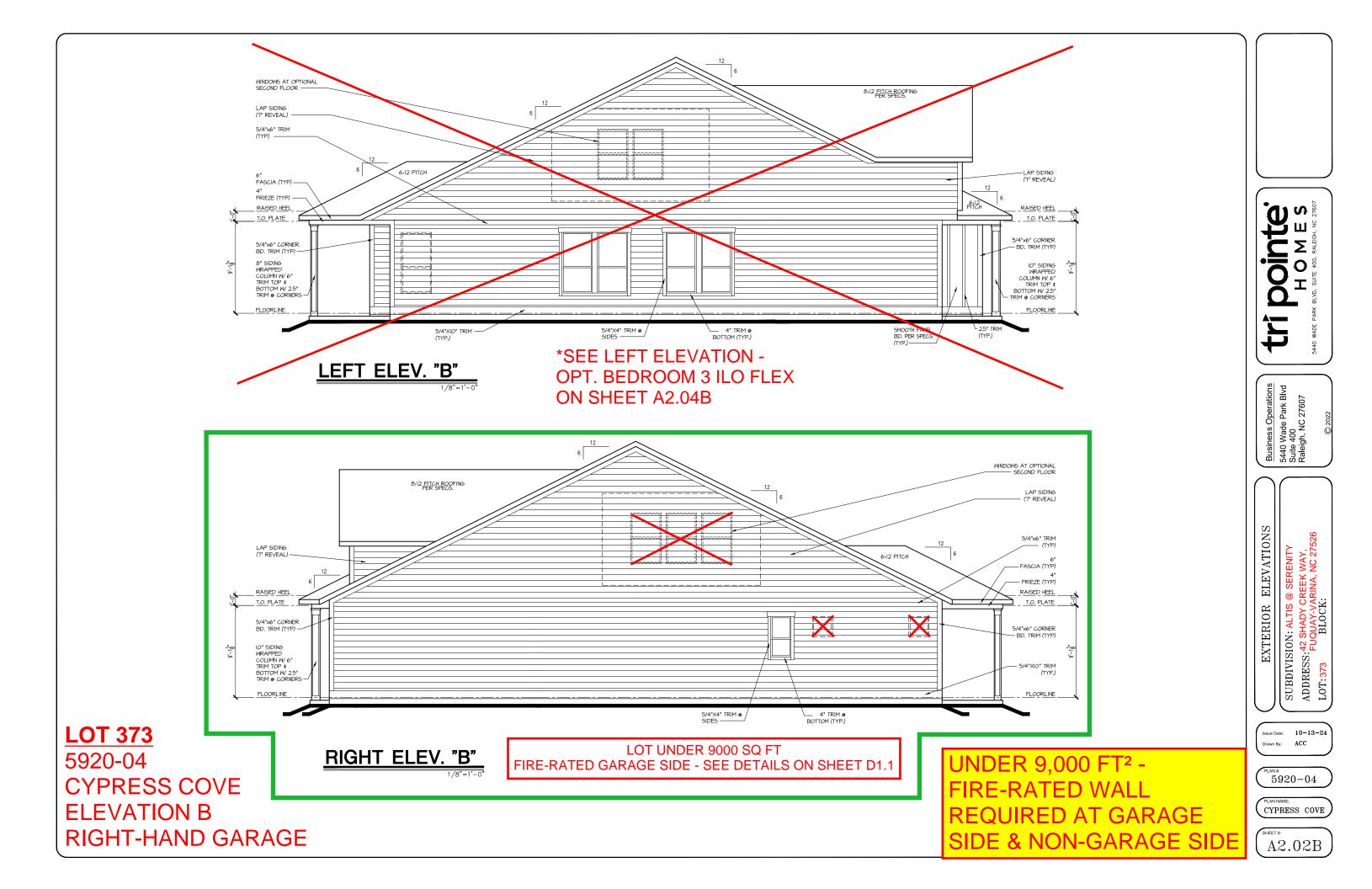
CYPRESS COVE

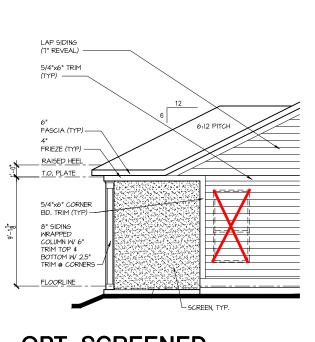
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LOT 373
5920-04
CYPRESS COVE
ELEVATION B
RIGHT-HAND GARAGE

BOTTOM SHELF - 3'-6"







OPT. SCREENED COVERED OUTDOOR LIVING PARTIAL LEFT ELEVATION

6:12 PITCH - FASCIA (TYP) – FRIEZE (TYP) RAISED HEEL T.O. PLATE 5/4"x6" CORNER (TYP.)

OPT. SCREENED COVERED OUTDOOR LIVING PARTIAL RIGHT ELEVATION

6:12 PITCH ROOFING PER SPECS. 6:12 PITCH ROOFING PER SPECS. RAISED HEEL T.O. PLATE 8" SIDING
WRAPPED
COLUMN W 6"
TRIM TOP &
BOTTOM W 2.5"
TRIM @ CORNERS SCREEN, TYP.

OPT. SCREENED COVERED OUTDOOR LIVING PARTIAL REAR ELEVATION

UNDER 9,000 FT² -REQUIRED AT GARAGE SIDE & NON-GARAGE SIDE Dointe HOMES RR BLYD. SUITE 400, RALEIGH, NC 22607 4

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

OPTION EXTERIOR ELEVATIONS SUBDIVISION: ALTIS @ SERE
ADDRESS: 42 SHADY CREEK W
FUQUAY-VARINA, N
LOT: 373 BLOCK:

Issue Date: 10-13-24

ACC

5920-04

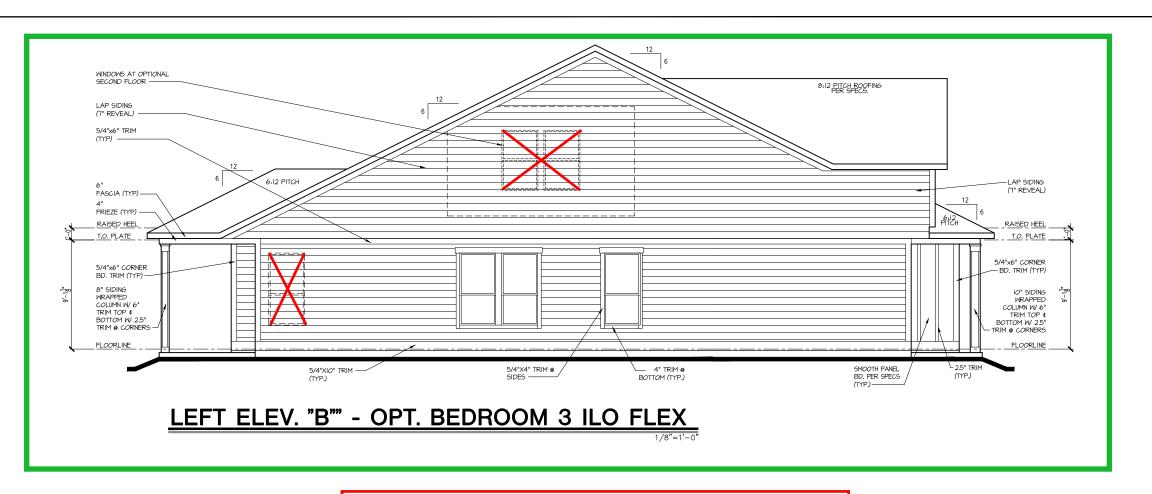
CYPRESS COVE

A2.03B

LOT 373 5920-04

CYPRESS COVE ELEVATION B

RIGHT-HAND GARAGE



LOT UNDER 9000 SQ FT FIRE-RATED NON-GARAGE SIDE - SEE DETAILS ON SHEET D1.1

LOT 373 5920-04 **CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE**

UNDER 9,000 FT² -REQUIRED AT GARAGE SIDE & NON-GARAGE SIDE Dointe HOMES KRUD. SUITE 400, RALEGH, NG 27807 4

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

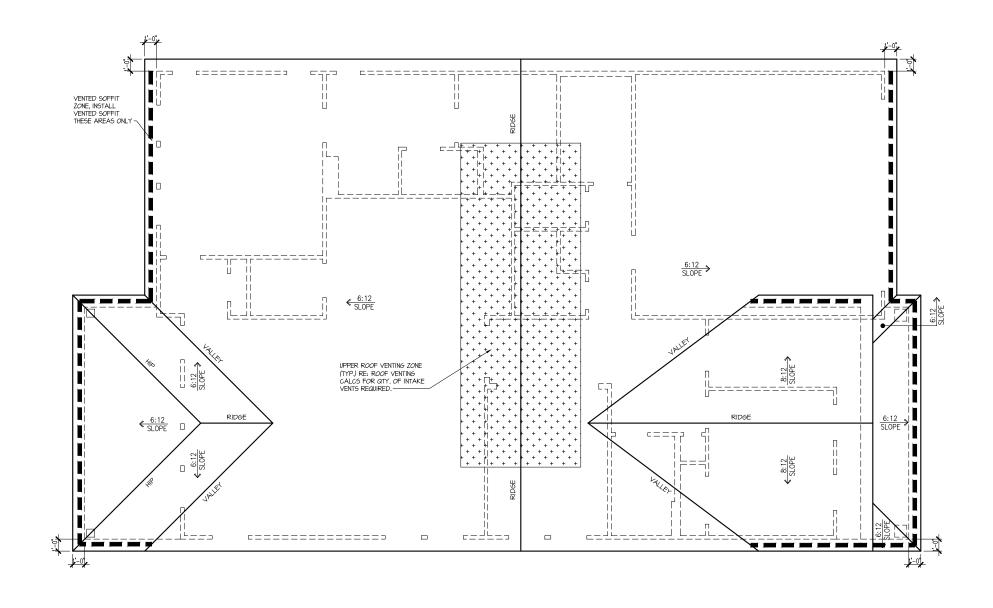
EXTERIOR ELEVATIONS OPTION SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 42 SHADY CREEK WAY,
FUQUAY-VARINA, NC 27526
LOT: 373 BLOCK:

10-13-24 Issue Date: ACC

5920-04

CYPRESS COVE

A2.04B



Attic Venting Calculations Elev. "B"		
ROOF INFORMATION	BASE	
TOTAL SF ROOF AREA	2740	
AVAILABLE L.F. ROOF SOFFIT	115	
AVAILABLE L.F. ROOF RIDGE	61	
VENT TYPES	QTY VENTS REQ'D	
LOWER VENTS CONTINUOUS SOFFIT VENTING @ 5 SI/LF	132 LF	
UPPER VENTS SLANT 150 VENTS @ 150 SI/VENT	4	
UPPER VENTS 4' RIDGE VENTS @ 72 SI/VENT	9	

NOTE: QTY OF UPPER VENTS SHOWN COVERS 100% OF UPPER VENTING. NO MIXING OF VENT TYPES FOR UPPER VENTING IS FIGURED FOR IN THIS TABLE.

ROOF PLAN 'B'

LOT 373
5920-04
CYPRESS COVE
ELEVATION B
RIGHT-HAND GARAGE

UNDER 9,000 FT² -FIRE-RATED WALL REQUIRED AT GARAGE SIDE & NON-GARAGE SIDE tri pointe.
H O M E S
5440 WADE PARK BLVD, SUITE 400, RALEIGH, NG 27807

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

SUBDIVISION: ALTIS @ SERENITY
ADDRESS:42 SHADY CREEK WAY,
FUQUAY-VARINA, NC 27526
LOT:373 BLOCK:

Issue Date: 10-13-24
Drawn By: ACC

5920-04

CYPRESS COVE

(A3.01B)



POINTE AD MES

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

SUBDIVISION: ALTIS @ SERENITY
ADDRESS:42 SHADY CREEK WAY,
FUQUAY-VARINA, NC 27526
LOT:373 BLOCK:

Issue Date: 10-13-24 Drawn By: ACC

5920-04

CYPRESS COVE

A4.01

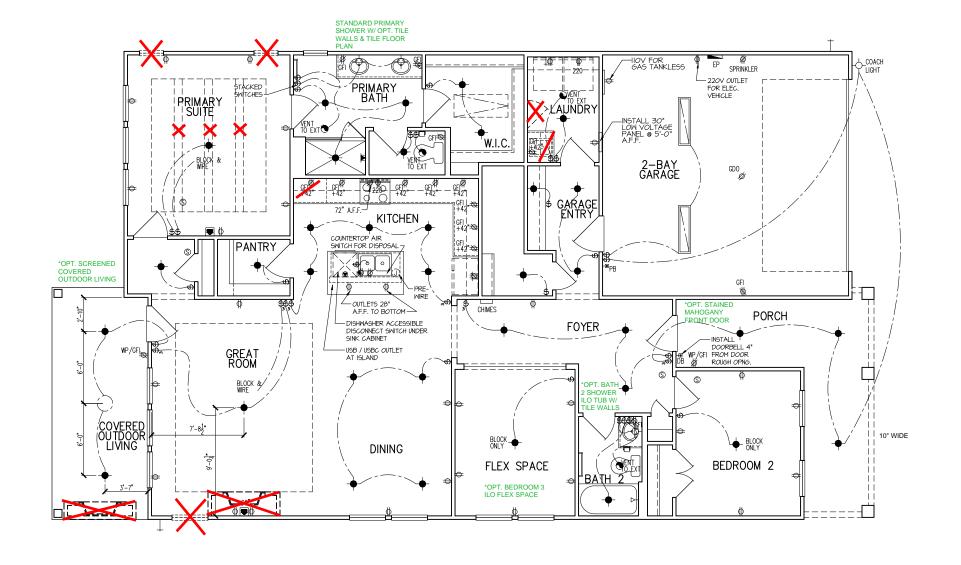
ELECTRICAL I SCHEDU	FIXTURE LE
DESCRIPTION	SYMBOL
110V OUTLET	ф
220V OUTLET	\$ 220
1/2 HOT OUTLET	
GFI OUTLET	% GFI
WP GFI OUTLET	₩P/GFI
GARAGE DOOR OPENER OUTLET	Ø GDO
SECURITY SYSTEM	♦ SEC SYS
DISHWASHER	●DW
JUNCTION BOX	Ū
CEILING MOUNTED LIGHT	-
CEILING FAN w/ LIGHT KIT	PROVIDE BRACING
RECESSED CEILING LIGHT	Ø
RECESSED WATER PROOF LIGHT	⊠ WP
WALL MOUNTED LIGHT	04
WALL MOUNTED PUSH BUTTON	å PB
TWO WAY SWITCH	\$
THREE WAY SWITCH	" \$
FOUR WAY SWITCH	₩
DIMMER SWITCH	\$□
EXHAUST VENTS	S VENT TO EXT
LOW VOLTAGE PANEL	
PHONE OUTLET	● PH
TV OUTLET	⊕ TV
DATA & RG6 COMBO BOX	
SMOKE DETECTOR	(ý)
CARBON MONOXIDE SMOKE DETECTOR COMBO	⊚ CM/SD
DOOR CHIMES	CHIMES
ELECTRICAL PANEL	₽ EP
SURFACE MOUNT LED	+
EXTERIOR WALL MOUNT UPLIGHT	88
SOFFIT MOUNT FLOOD LIGHT	₩
UNDER COUNTER LIGHTING	-cc- UCL
SMURF TUBE	

ELECTRICAL NOTES:

- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE AND CARBON MONOXIDE DETECTORS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES PROVIDE AND INSTALL GROUND FAULT CIRCUIT—INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES. ELECTRICAL CONTRACTOR TO PROVIDE ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK—UPS/CUTOFFS.
- REQUIRED DIRECT HOOK-UPS/CUTOFFS.
- REQUIRED DIRECT HOOK—UPS/CUTOFFS.
 HVAC CONTRACTOR TO VERIFY THERMOSTAT
 LOCATIONS.
 ALL ELECTRICAL AND MECHANICAL EQUIPMENT
 (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS,
 SANITARY SUMP PITS, DRAIN TILE SUMP, AND

WATER HEATERS) ARE SUBJECT TO RELOCATION
DUE TO FIELD CONDITIONS.
ELECTRICAL DEVICES: ABOVE FINISHED FLOOR:
SWITCHES OVER COUNTER
WALL OUTLETS OVER COUNTER
+42" TO BOTTOM OF HORIZONTAL OUTLET(TYP. @ COUNTER)
REMAINING SWITCHES
WALL OUTLETS
BATH VANITY BRACKET OUTLET 1,2 (1" ABOVE TOP OF VANITY)
WATER SOFTENER AND SUMP OUTLETS 48" TO CL
EXTERIOR GFI OUTLETS
GARAGE GFI (ABOVE GARAGE FLOOR) 48" TO CL
FRONT DOOR COACH LIGHT
GARAGE DOOR COACH LIGHT, (ABOVE GARAGE FLOOR)
THERMOSTAT
DOORBELL CHIMES
DOORBELL BUTTON DR .HANDLE
KITCHEN HOOD FAN "WHIP"
KITCHEN WALL HUNG MICROWAVE OUTLET 72" TO CL
KITCHEN DISHWASHER RECEPTACLE UNDER SINK
KITCHEN RANGE
KITCHEN REFRIGERATOR
WASHER/DRYER OUTLET
CL = CENTER LINE

- CL = CENTER LINE 1 = FIELD VERIFY 2 = MASTER BATH STANDARD 30" HIGH VANITY TO BE RAISED 4"



LOT 373 5920-04 **CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE**

SIDE & NON-GARAGE SIDE

Doint B S HOME & は

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

ELECTRICAL PLAN

SUBDIVISION: ALTIS @ S ADDRESS: 42 SHADY CREE FUQUAY-VARIN LOT: 373 BLOCK:

FLOOR

1st

10-13-24 Issue Date: ACC

5920-04

CYPRESS COVE

E1.10B

ELECTRICAL I SCHEDU	FIXTURE
DESCRIPTION	SYMBOL
110V OUTLET	ф
220V OUTLET	⊕ 220
1/2 HOT OUTLET GFI OUTLET	₩ GFI
WP GFI OUTLET	% WP/GFI
GARAGE DOOR OPENER	
OUTLET	Ø GDO
SECURITY SYSTEM	∯SEC SYS
DISHWASHER	⊕ DW
JUNCTION BOX	Ũ
CEILING MOUNTED LIGHT	· \
CEILING FAN w/ LIGHT KIT	PROVIDE BRACING
RECESSED CEILING LIGHT	Ø
RECESSED WATER PROOF LIGHT	™ Mb
WALL MOUNTED LIGHT	9
WALL MOUNTED PUSH BUTTON	d PB
TWO WAY SWITCH	\$
THREE WAY SWITCH	*\$
FOUR WAY SWITCH	*\$
DIMMER SWITCH	\$ ^{DIM}
EXHAUST VENTS	SVENT TO EXT
LOW VOLTAGE PANEL	
PHONE OUTLET	⊜ PH
TV OUTLET	⊚ TV
DATA & RG6 COMBO BOX	
SMOKE DETECTOR	<u>(S</u>)
CARBON MONOXIDE SMOKE DETECTOR COMBO	⊚ CM/SD
DOOR CHIMES	CHIMES
ELECTRICAL PANEL	EP.
SURFACE MOUNT LED	•
EXTERIOR WALL MOUNT UPLIGHT	88
SOFFIT MOUNT FLOOD LIGHT	445
UNDER COUNTER LIGHTING	eco- UCL
SMURF TUBE	

ELECTRICAL NOTES:

- 1. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE AND CARBON MONOXIDE DETECTORS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES 2. PROVIDE AND INSTALL GROUND FAULT (IRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.

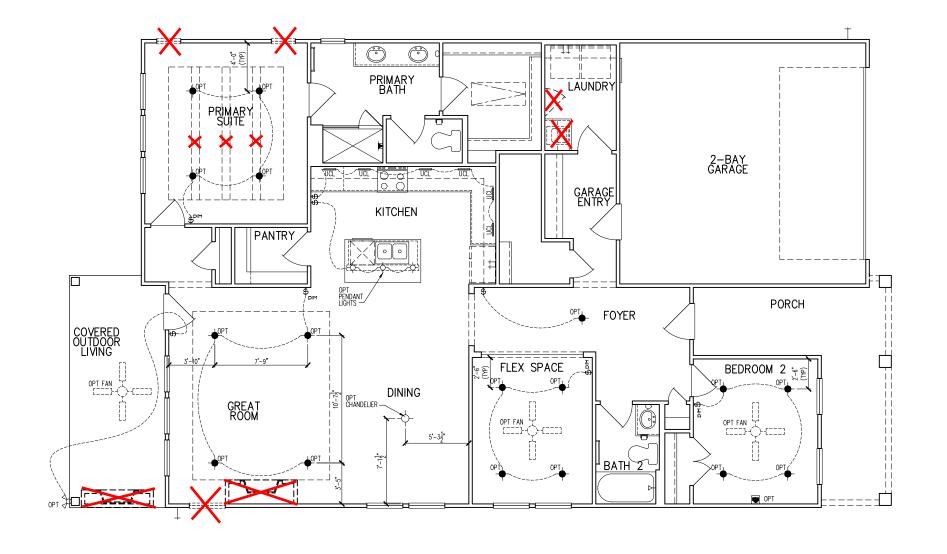
 3. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK—UPS/CUTOFFS.

 4. HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.

 ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION

WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.	
ELECTRICAL DEVICES: ABOVE FINISHED FLOOR:	
SWITCHES OVER COUNTER	
WALL OUTLETS OVER COUNTER	
+42" TO BOTTOM OF HORIZONTAL OUTLET(TYP. @ COUNTER)	
REMAINING SWITCHES	
WALL OUTLETS	
BATH VANITY BRACKET OUTLET 1,2 (1" ABOVE TOP OF VANITY)	
WATER SOFTENER AND SUMP OUTLETS 48" TO CL	
EXTERIOR GFI OUTLETS	
GARAGE GFI (ABOVE GARAGE FLOOR) 48" TO CL	
FRONT DOOR COACH LIGHT	
GARAGE DOOR COACH LIGHT, (ABOVE GARAGE FLOOR)84".TO CL	
THERMOSTAT	
DOORBELL CHIMES	
DOORBELL BUTTON	-
KITCHEN HOOD FAN "WHIP"	
KITCHEN WALL HUNG MICROWAVE OUTLET 72" TO CL	
KITCHEN DISHWASHER RECEPTACLE JNDER SINI	K
KITCHEN RANGE	
KITCHEN REFRIGERATOR	
WASHER/DRYER OUTLET	
CL = CENTED LINE	

CL = CENTER LINE
1 = FIELD VERIFY
2 = MASTER BATH STANDARD 30" HIGH
VANITY TO BE RAISED 4"



CHECK BOO FOR SELECTED ELECTRICAL OPTIONS

LOT 373 5920-04 **CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE**

SIDE & NON-GARAGE SIDE

DointeHOMES

RELYD, SUITE 400, RALEIGH, NC 27607

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

OPITONS

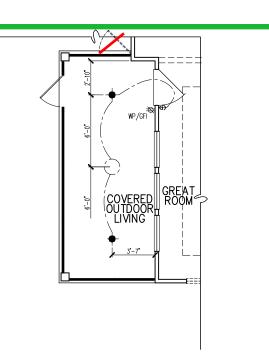
1st FLOOR ELEC. PLAN SUBDIVISION: ALTIS @ SERE
ADDRESS:42 SHADY CREEK W
FUQUAY-VARINA, N
LOT:373 BLOCK:

10-13-24 Issue Date: ACC

5920-04

CYPRESS COVE

E1.11B



OPT. SCREENED COVERED OUTDOOR LIVING

PARTIAL ELECTRICAL PLAN

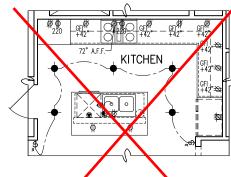
ELECTRICAL FIXTURE SCHEDULE

CHECK BOO FOR SELECTED **ELECTRICAL**

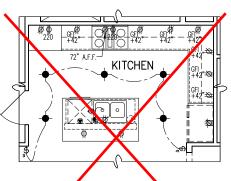
OPT. OUTDOOR LIVING PATIO PARTIAL ELECTRICAL PLAN

OPTIONS DESCRIPTION SYMBOL

DESCRIPTION	3 INDOL	
110V OUTLET	ф	
220V OUTLET	Ф 220	
1/2 HOT OUTLET	♦	
GFI OUTLET	V \$ GFI	!
WP GFI OUTLET	₩P/GFI	
GARAGE DOOR OPENER OUTLET	Ø GDO	
SECURITY SYSTEM	Ø SEC SYS	
DISHWASHER	⊕ DW	
JUNCTION BOX	0	
CEILING MOUNTED LIGHT		ELECTRICAL MOTEO
CEILING FAN w/ LIGHT KIT	BRAZINE	ELECTRICAL NOTES: 1. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE AND CARBON MOKINDE DETECTIORS AS REQUIRED BY NATIONAL FIRE PROTECTION
RECESSED CEILING LIGHT	Ø	ASSOCIATION (NFPA) AND MEETING THE
RECESSED WATER PROOF LIGHT) ⊠ (WP	REQUIREMENTS OF ALL GOVERNING CODES 2 PROVIDE AND INSTALL CROLING FALLET
WALL MOUNTED LIGHT	Q	CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING
WALL MOUNTED PUSH BUTTON	á PB	THE REQUIREMENTS OF ALL GOVERNING CODES. 3. ELECTRICAL CONTRACTOR TO PROVIDE
TWO WAY SWITCH	\$	REQUIRED DIRECT HOOK-UPS/CUTOFFS.
THREE WAY SWITCH	3\$	HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
FOUR WAY SWITCH	*\$	 ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS,
DIMMER SWITCH	\$ ^{DIM}	SANITARY SUMP PITS, DRAIN TILE SUMP, AND
EXHAUST VENTS	S VENT TO EXT	WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.
LOW VOLTAGE PANEL	□ ₽□	ELECTRICAL DEVICES: ABOVE FINISHED FLOOR:
PHONE OUTLET	⊕ PH	SWITCHES OVER COUNTER
TV OUTLET	⊛TV	WALL OUTLETS OVER COUNTER
DATA & RG6 COMBO BOX		REMAINING SWITCHES
SMOKE DETECTOR	S	WALL OUTLETS
CARBON MONOXIDE SMOKE DETECTOR COMBO	⊚ CM/SD	BATH VANITY BRACKET OUTLET
DOOR CHIMES	CHIMES	WATER SOFTENER AND SUMP OUTLETS 48" TO CL EXTERIOR GFI OUTLETS
ELECTRICAL PANEL	EP	GARAGE GFI (ABOVE GARAGE FLOOR) 48" TO CL
SURFACE MOUNT LED	-	FRONT DOOR COACH LIGHT
EXTERIOR WALL MOUNT UPLIGHT	X.	GARAGE DOOR COACH LIGHT, (ABOVE GARAGE FLOOR)84°.TO CL
SOFFIT MOUNT FLOOD LIGHT	44	THERMOSTAT
UNDER COUNTER LIGHTING	UCL	
SMURF TUBE		DOORBELL BUTTON. LEVEL W/ KITCHEN HOOD FAN "WHIP"
		KITCHEN WALL HING MICROWAVE OUTLET. 72 TO CL KITCHEN DISHMASHER RECEPTACLE. LIADERS SINK KITCHEN RANGE. 24* TO. CL. KITCHEN RETRIGERATOR. 46* TO CL WISHER/DEPKER OUTLET. 46* TO CL CL = CENTER LINE 1 = FELDL WERFY
		2 = MASTER BATH STANDARD 30" HIGH VANITY TO BE RAISED 4"



OPT. GOURMET 2 KITCHEN - PARTIAL ELECTRICAL PLAN

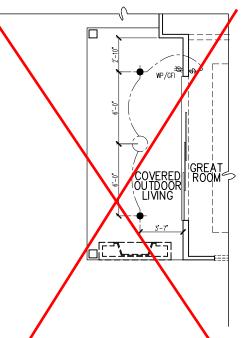


COVERED OUTDOOR LIVING

GREAT ROOM

PRIMARY SUJTE

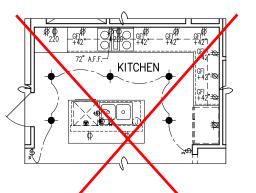
OUTDOOR LIVING PATIO



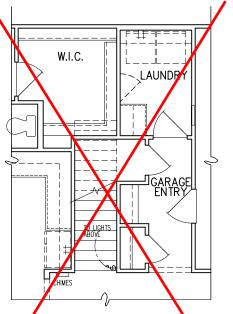
OPT. 12080 MULTI SLIDE DOOR AT GREAT ROOM PARTIAL ELECTRICAL PLAN

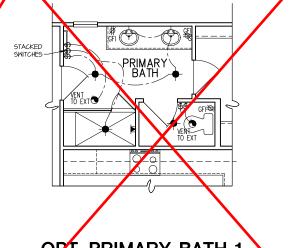


OPT. SHOWER ILO TUB AT BATH 2 - PARTIAL ELECTRICAL PLAN



OPT. GOURMET 1 ELECTRICAL PLAN



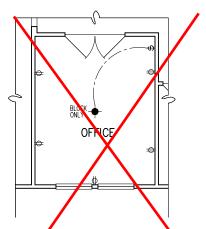


OPT. PRIMARY BATH 1
PARTIAL ELECTRICAL PLAN

OPT. SECOND FLOOR STAIR PARTIAL ELECTRICAL PLAN



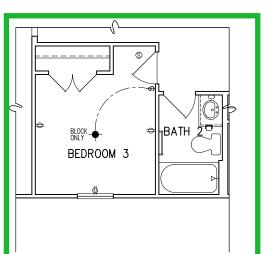
OPT CABINETS NO LINEN CABINETS -PARTIAL ELECT. PLAN



OPT OFFICE ILO FLEX SPACE - PARTIAL EVECTRICAL PLAN



OPT. DOOR FROM PRIM. W.I.C TO LAUNDRY PARTIAL ELECT. PLAN



OPT. BEDROOM 3 ILO FLEX SPACE - PARTIAL ELECTRICAL PLAN

DointeHOMES 4

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

OPTIONS SUBDIVISION: ALTIS @ PLAN ELEC.

ADDRESS: 42 FU LOT: 373 10-13-24 Issue Date: ACC

5920-04

CYPRESS COVE

01.E10

	1	
ELECTRICAL FIXTURE SCHEDULE		
DESCRIPTION	SYMBOL	
110V OUTLET	ф	
220V OUTLET	© 220	
1/2 HOT OUTLET	•	
GFI OUTLET	₩ GFI	
WP GFI OUTLET	₩P/GFI	
GARAGE DOOR OPENER OUTLET	Ø GDO	
SECURITY SYSTEM	♦ SEC SYS	
DISHWASHER	⊕ DW	
JUNCTION BOX	0	
CEILING MOUNTED LIGHT	-	
CEILING FAN w/ LIGHT KIT	BROVIDE	
RECESSED CEILING LIGHT	Ø	
RECESSED WATER PROOF LIGHT	⊠WP	
WALL MOUNTED LIGHT	Q	
WALL MOUNTED PUSH BUTTON	₫ PB	
TWO WAY SWITCH	\$	
THREE WAY SWITCH	3\$	
FOUR WAY SWITCH	4 \$	
DIMMER SWITCH	\$ ^{DIM}	
EXHAUST VENTS	S VENT TO EXT	
LOW VOLTAGE PANEL		
PHONE OUTLET	● PH	
TV OUTLET	⊚ TV	
DATA & RG6 COMBO BOX		
SMOKE DETECTOR	<u>(S</u>)	
CARBON MONOXIDE SMOKE DETECTOR COMBO	⊚ CM/SD	
DOOR CHIMES	CHIMES	
ELECTRICAL PANEL	£.	
SURFACE MOUNT LED	-	
EXTERIOR WALL MOUNT UPLIGHT	8	
SOFFIT MOUNT FLOOD LIGHT	443	
UNDER COUNTER LIGHTING	-co- UCL	
SMURF TUBE		

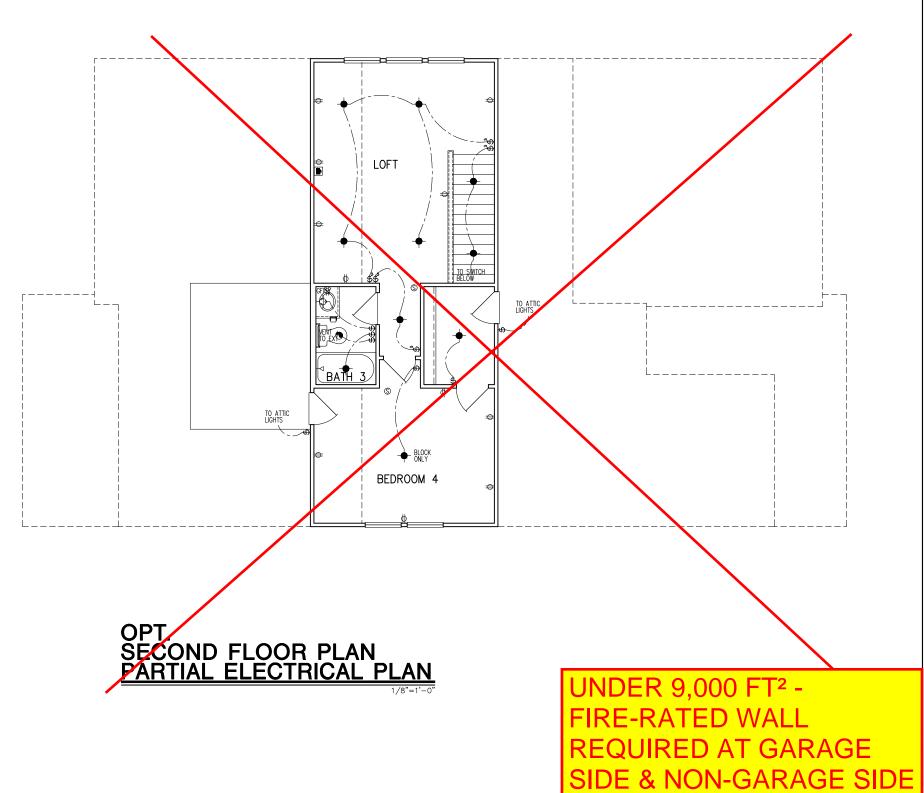
ELECTRICAL NOTES:

- 1. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE AND CARBON MONOXIDE DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES
 2. PROVIDE AND INSTALL GROUND FAULT (IRCUIT—INTERRUPTERS (GF) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL COVERNING CODES.
 3. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK—UPS/CUTOFFS.
 4. HYAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
 5. ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DEAN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION

SANITART SUMP PITS, DRAIN TILE SUMP, AND
WATER HEATERS) ARE SUBJECT TO RELOCATION
DUE TO FIELD CONDITIONS.
ELECTRICAL DEVICES: ABOVE FINISHED FLOOR:
SWITCHES OVER COUNTER
WALL OUTLETS OVER COUNTER
+42" TO BOTTOM OF HORIZONTAL OUTLET(TYP. @ COUNTER)
REMAINING SWITCHES
WALL OUTLETS
BATH VANITY BRACKET OUTLET
WATER SOFTENER AND SUMP OUTLETS 48" TO CL
EXTERIOR GFI OUTLETS
GARAGE GFI (ABOVE GARAGE FLOOR) 48" TO CL
FRONT DOOR COACH LIGHT
GARAGE DOOR COACH LIGHT, (ABOVE GARAGE FLOOR) 84". TO CL
THERMOSTAT
DOORBELL CHIMES
DOORBELL BUTTON DR. HANDLE
KITCHEN HOOD FAN "WHIP"
KITCHEN WALL HUNG MICROWAVE OUTLET 72" TO CL
KITCHEN DISHWASHER RECEPTACLE JUNDER SINI
KITCHEN RANGE
KITCHEN REFRIGERATOR
WASHER/DRYER OUTLET

- CL = CENTER LINE 1 = FIELD VERIFY 2 = MASTER BATH STANDARD 30" HIGH VANITY TO BE RAISED 4"

LOT 373 5920-04 **CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE**



Dointe HOMES RR BLD. SUITE 400, RALEIGH, NC 27607 は

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

OPTION

FLR ELEC. PLAN

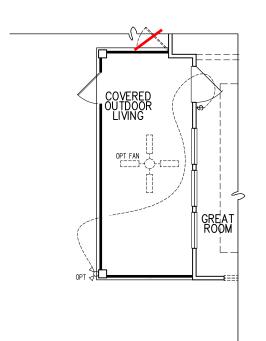
SUBDIVISION: ALTIS @ SERE
ADDRESS:42 SHADY CREEK W
FUQUAY-VARINA, N
LOT:373 BLOCK: 2nd

10-13-24 Drawn By: ACC

5920-04

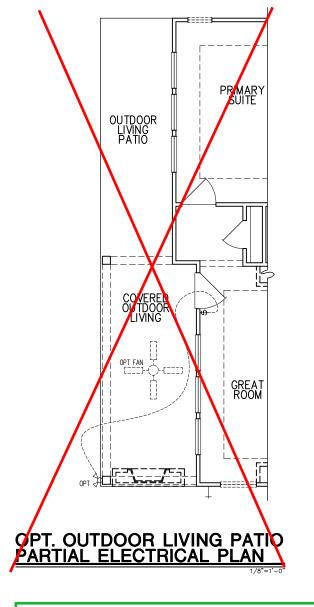
CYPRESS COVE

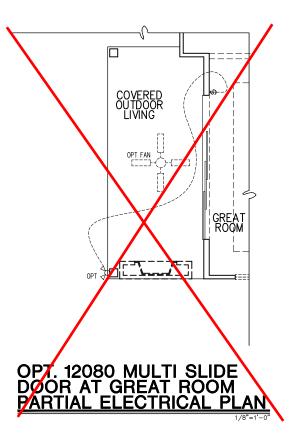
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OPT. SCREENED COVERED OUTDOOR LIVING PARTIAL ELECTRICAL PLAN

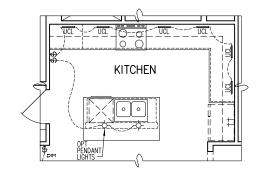
LOT 373 5920-04 CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE



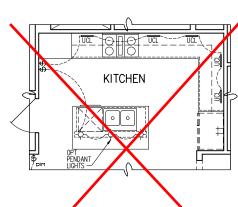


UNDER 9,000 FT² FIRE-RATED WALL
REQUIRED AT GARAGE
SIDE & NON-GARAGE SIDE

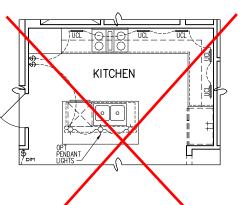




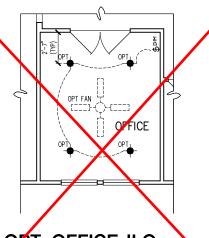
OPT. 2-PACK PENDANTS AT KITCHEN - PARTIAL ELECTRICAL PLAN



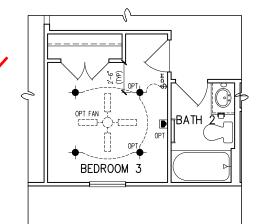
OPT. GOURMET 2 KITCHEN - PARTIAL ELECTRICAL PLAN



OPT. GOURMET 1 KITCHEN - PARTIAL ELECTRICAL PLAN



OPT. OFFICE ILO FLEX SPACE - PARTIAL ELECTRICAL PLAN



OPT. BEDROOM 3 ILO FLEX SPACE - PARTIAL ELECTRICAL PLAN Tribointe HOMES HOMES S40 WADE PARK BLYD, SUITE 400, RALEIGH, NC 27607

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

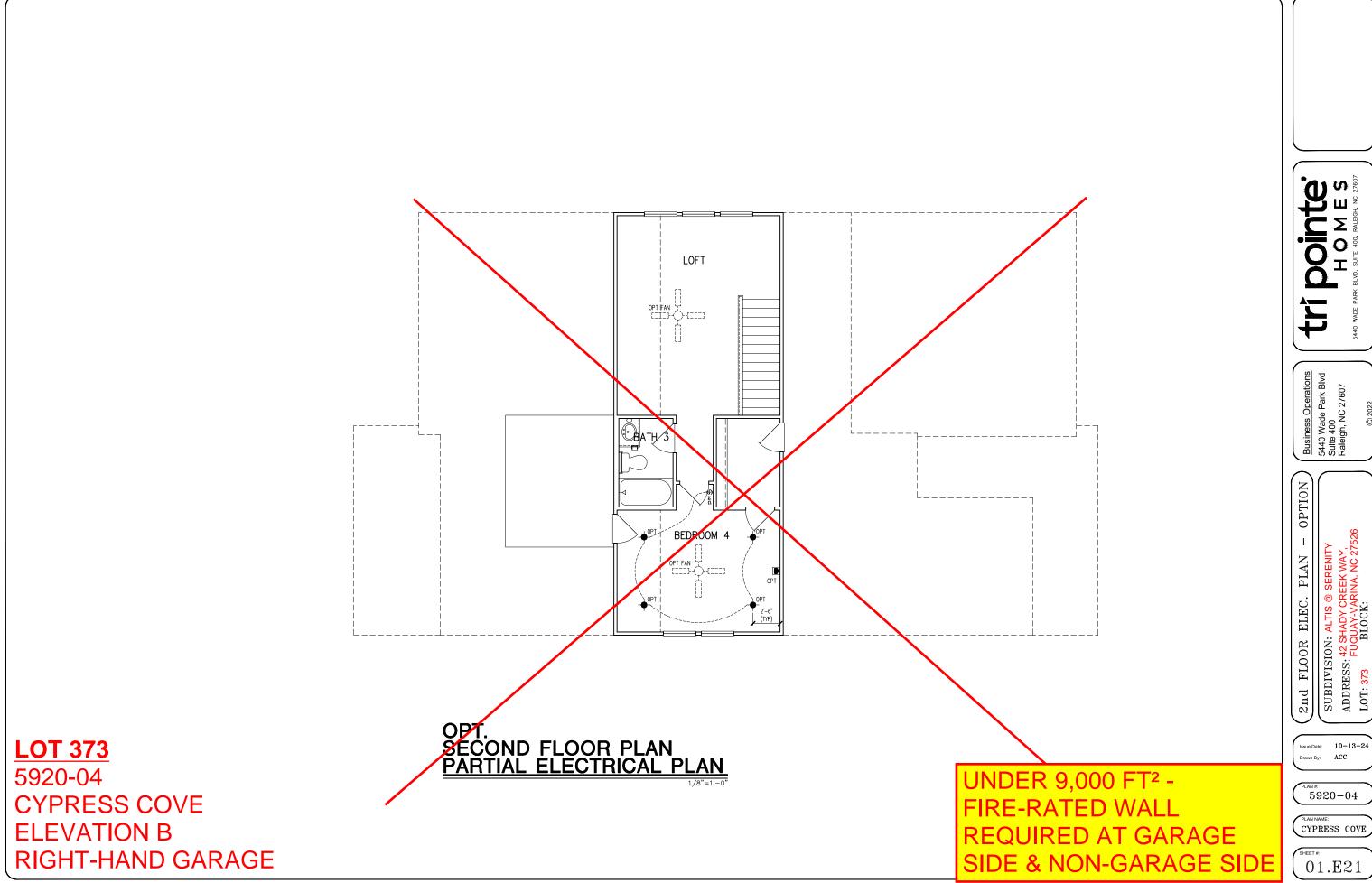
SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 42 SHADY CREEK WAY,
FUQUAY-VARINA, NC 27526
LOT: 373
BLOCK:

Issue Date: 10-13-24
Drawn By: ACC

FLAN#: 5920-04

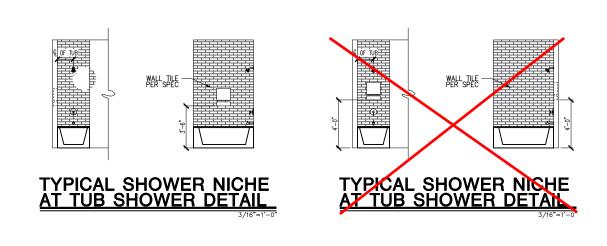
CYPRESS COVE

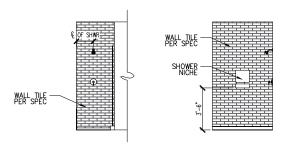
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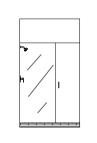


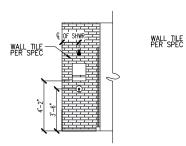
tri pointe Homes 540 WADE PARK BLYD, SUITE 400, RALEIGH, NG 27607

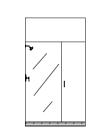
CYPRESS COVE





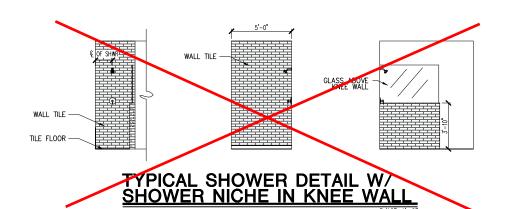


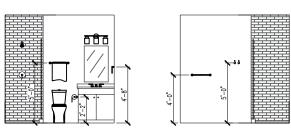




TYPICAL SHOWER NICHE AT SHOWER DETAIL

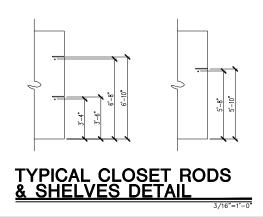
TYPICAL SHOWER NICHE AT SHOWER DETAIL





TYPICAL HEIGHTS FOR BATH FIXTURES DETAIL

LOT 373 5920-04 CYPRESS COVE ELEVATION B RIGHT-HAND GARAGE



UNDER 9,000 FT² -FIRE-RATED WALL REQUIRED AT GARAGE SIDE & NON-GARAGE SIDE tri pointe.
HOMES

S440 WADE PARK BLVD, SUITE 400, RALEIGH, NG 27607

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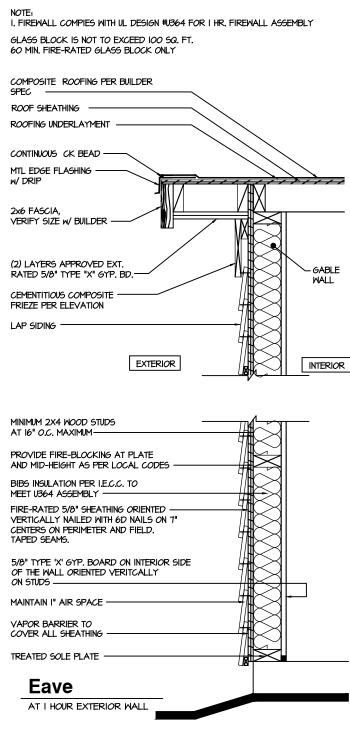
SUBDIVISION: ALTIS @ SERENITY
ADDRESS: 42 SHADY CREEK WAY,
FUQUAY-VARINA, NC 27526

Issue Date: 10-13-24
Drawn By: ACC

5920-04

CYPRESS COVE

D1.0



√1 Hour Wall (2) AT EXTERIOR WALL **CYPRESS COVE**

LOT 373

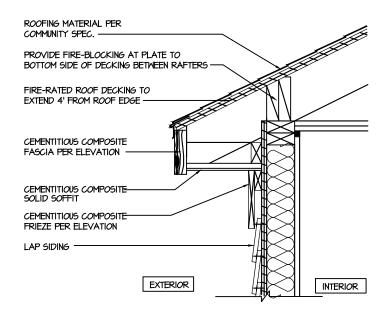
5920-04

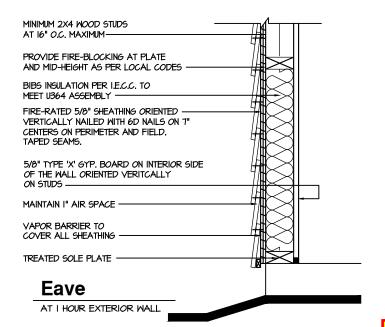
ELEVATION B

RIGHT-HAND GARAGE

I HOUR FIRE-RESISTIVE CONSTRUCTION

I. FIREWALL COMPIES WITH UL DESIGN #J364 FOR I HR. FIREWALL ASSEMBLY GLASS BLOCK IS NOT TO EXCEED 100 SQ. FT. 60 MIN. FIRE-RATED GLASS BLOCK ONLY





1 Hour Wall AT EXTERIOR WALL

I HOUR FIRE-RESISTIVE CONSTRUCTION (PROPERTY LINE)

GARAGE SIDE & NON-GARAGE SIDE **Dointe**HOMES

Business Operations 5440 Wade Park Blvd Suite 400 Raleigh, NC 27607

SERENITY ALTIS @ SERE) STREAMSIDE

DETAILS

SUBDIVISION: ADDRESS: LOT: 328

Issue Date: 10-13-24 ACC

5920 - 04

CYPRESS COVE

D1.1

GENERAL STRUCTURAL NOTES

FLOOR FRAMING

- I IOISTS/TRUSSES SHALL BE DESIGNED BY MANUE TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT M&K FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIEY THAT THE FINISHES TO BE INSTALLED. MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN
- FLOOR SYSTEMS & SHEATHING HAVE BEEN DESIGNED TO SUPPORT ADDITIONAL DEAD LOAD FROM CERAMIC TILE (EXCLUDING MARBLE OR STONE). HOWEVER, IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO PROVIDE PROPER UNDERLAYMENT, UNCOUPLING MEMBRANE AND MORTAR/GROUT PER THE ASSEMBLY DESIGNATIONS IN THE TONA HANDBOOK (TILE COUNCIL OF NORTH AMERICA).
- AT I-JOIST FLOORS, PROVIDE I I/8" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- I-JOIST/TRUSS SHOP DWGS, SHALL BE SUBMITTED TO ARCH, & ENG.
 FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C. EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W GLUE AND
- 2 1 x 0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD
- · 2 3 × 0.120 NAILS @ 4" O.C. @ PANEL EDGES \$ @ 8" O.C. FIELD. - 2 3 × 0.113 NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD

ROOF FRAMING

- ROOF SHEATHING SHALL BE 1/16" A.P.A. RATED SHEATHING 24/16
- EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS W 2 5" x 0.131" NAILS @ 6"0.c. @ PANEL EDGES € @ 12" O.C. FIELD.
- · w/ 2 🖁 × 0.120" NAILS @ 4"o.c. @ PANEL EDGES \$ @ 8" O.C. FIELD. - w/ 2 3 × 0.113" NAILS @ 3"o.c. @ PANEL EDGES & @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF. SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ SIMPSON H2.5T CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) H2.5T CLIPS AT 2-PLY GIRDER TRUSSES, (3) H2.5T CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ROOF TRUSS SHOP DWGS SHALL BE SUBMITTED TO ARCH & ENG FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING
- OF METAL PLATE CONNECTED WOOD TRUSSES." SUPPORT SHORT SPAN ROOF TRUSSES W/2x4 LEDGER FASTENED TO

FRAMING W(2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 7' SPAN).

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAIL5
JOIST TO SOLE PLATE	(3) TOENAILS	(3) TOENAILS*
SOLE PL. TO JOIST/RIM OR BLK'G	NAILS @ 4" o.c.	NAILS @ 4" o.c.
STUD TO PLATE	(4) TOENAILS/ (3)END NAILS	(4) TOENAILS/ (4)END NAILS*
RIM TO TOP PLATE	TOENAILS @ 6" o.c.	TOENAILS @ 4" o.c.*
BLK'G. BTWN. JOISTS TO TOP PL.	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
DOUBLE STUD	NAILS @ 16" o.c.	NAILS @ 16" o.c.
DOUBLE TOP PLATE	NAILS ❷ 12" o.c.	NAILS @ 8" o.c.
DOUBLE TOP PLATE LAP SPLICE	(12) NAILS IN LAPPED AREA	(15) NAILS IN LAPPED AREA
	(24" MIN.)	(24" MIN.)
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS +	(4) TOENAILS +
	(I) SIMPSON H2.5T	(I) SIMPSON H2.5T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.
R.T. w/ HEEL HT. 9 1/4" TO 12"	2xIO BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2XIO BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2XI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2xI2 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE W/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C.	LAP WALL SHTG. W/ DBL. TOP PL. \$ INGTALL ON TRUGS VERT FASTEN W/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUGS VERT FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHTG. W/ DBL. TOP PL. & INSTALL ON TRUSS VERT FASTEN W/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL*
WALL TO FOUNDATION	WALL SHTG. LAP W/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	

2½"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS.

GENERAL STRUCTURAL NOTES

DESIGN LOADING

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

DESIGN LOADS ROOF

SNOW = 15 PSF (12 PSF GROUND SNOW, TRUSSES) LIVE = 20 PSF (REDUCIBLE BASED ON ROOF PITCH) DEAD = 7 PSF T.C., IO PSF B.C. LOAD DURATION FACTOR = 1.25

FLOOR LIVE = 40 PSF (30 PSF @ SLEEPING AREAS) DEAD = 10 PSF (I-JOISTS), 15 PSF (FLOOR TRUSSES)

ADD'L TO PSE @ CERAMIC TILE IN KITCHEN

BUNROOMS, BATHS, FOYER, LAUND. & MUDRMS

2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

115 MPH, EXPOSURE B

GENERAL FRAMING

- ALL TYP, NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3(I)) OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT & INT BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPF/SP #2 GRADE LUMBER, OR BETTER, U.N.O.. WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED W/ GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPE) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER, SUPPORT ALL HEADERS/ BEAMS W/ (1)2x JACK STUD & (1)2x KING STUD MINIMUM
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.,
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX., U.N.O.) . HEADERS IN NON-LOAD BEARING WALLS SHALL BE: (I)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15)
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING: • 'LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10^6 psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING 'LVL' - Fb=2400 psi; Fcll=2500 psi; E=1.8xl0^6 psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 134" MAX, WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"X0.120" NAILS @ 8" O/C OR 2 ROWS K"x3K" SIMPSON SDS SCREWS (OR 3K" TRUSSI OK SCREWS) @ 16" GREATER. APPLY EASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 31/5" OR 51/4" BEAMS ARE ACCEPTABLE, USE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS
- FOR 4 PLY BEAMS OF EQUAL 13/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/2 x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER, APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AN BOTTOM SCREWS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND./BEARING. BLOCKING TO MATCH POST ABOVE.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE SIMPSON BCS2-2/4 CAP & ABW44 BASE, U.N.O.
- CORROSION NOTES
- BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE FASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT W PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.

JNDER 9.000 FT² -

GARAGE SIDE &

NON-GARAGE SIDE

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE BUILDING CODE:
- FOOTING DESIGN 2,000 PSF ALLOWABLE SOIL BEARING
- FASTEN 2x4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2
- ANCHORS PER PLATE 12" MAX FROM PLATE ENDS UTILIZING: • I/2" DIA. ANCHOR BOLTS @ 6'-0" O.C,7" MIN. EMBEDMENT
- I/2" DIA. x 6" LONG SIMPSON TITEN HD @ 6'-0" O.C. • SIMPSON MASA ANCHOR STRAPS @ 6'-0" O.C. (CONCRETE)
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ PERIMETER FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- BUILDER TO VERIEY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD, CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O
- CONCRETE DESIGN BASED ON ACL 318, CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O. f'c = 3,000 psi: FOOTINGS & INTERIOR SLABS ON GRADE 3,500 psi: GARAGE & EXTERIOR SLABS ON GRADE fu = 60.000 psi
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY
- . JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (I:I RATIO), WITH A MAXIMUM OF I:I.5 RATIO
- CONTROL JOINTS SHALL <u>NOT</u> BE INSTALLED IN STRUCTURAL
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
► HD-I	SIMPSON CSI6 STRAP TIE W/ 14" END LENG
► HD-2	SIMPSON MSTC66 STRAP TIE W 24" END LENG
▶ HD-3	SIMPSON HTT4 HOLD-DOWN *
► HD-4	SIMPSON HDU5-SDS2.5 HOLD-DOWN *
HD-5	SIMPSON STHDI4RJ HOLD-DOWN *

UTILIZE SIMPSON "SET-36" EPOXY SYSTEM TO FASTEN %" DIA. THREADED ROD INTO CONCRETE FOUNDATION. PROVIDE 12" MIN. EMBEDMENT INTO CONCRETE. INSTALL PER MANUE, RECOMMENDATIONS, DO NOT LOCATE ANCHORS WITHIN I 3/4" OF EDGE OF FOUNDATION

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO COMPONENTS DURING CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIEY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY OR WARRANTY TOLERANCES.

VENEER LINTEL SCHEDULE

	SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE	
	3'-0"	20 FT. MAX	L3"x3"x¼"	
		3 FT. MAX	L3"x3"x¼"	
	6'-0"	I2 FT. MAX	L4"x3"x¼"	
		20 FT. MAX	L5"x3½"x¾6"	
	8'-0"	3 FT. MAX	L4"x4"x¼" *	
		I2 FT. MAX	L5"x3½"x¾6"	
		I6 FT. MAX	L6"x3½"x¾6"	
	9'-6"	I2 FT. MAX	L6"x3½"x¾6"	
	16'-0"	2 FT. MAX	L7"x4"x½" **	
	1	3 FT. MAX	L8"x4"x½" **	

- . Liniels:
 Aull Support 2 %' 3 ½' Veneer W 40 psf Maximum Meight.
 5' Shall Have 4' Min. Bearing
 6' Shall Have 5' Min. Bearing
 6' Shall Not pe fastined back to meader.
 4' Guall not each section back to meader.
 4' Guall not each section back to meader.

FOR QUEEN VENEER USE L4x31/4". FOR 3½" VENEER ONLY, SEE PLAN FOR VENEER SUPPORT IF VENEER < 3½" THICK.

I-JOIST MANUFACTURER

ADDITIONAL NOTES FOR TRUSS \$

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED

TO M&K FOR REVIEW PRIOR TO FABRICATION,

DELIVERY, OR INSTALLATION. TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUS BEAMS DO NOT EXCEED THE FOLLOWING: A ROOF TRUSSES.

I/4" DEAD LOAD

B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:

ABSOLUTE DEAD LOAD DEFECTION OF FLOOR TRUSSES/ATTIC TRUSSES WHEN ADJACENT TO FLOOR FRAMING BY OTHERS SHALL BE LIMITED TO 3/16". (NO DIFFERENTIAL DEFLECTION

FLOOR JOIST NOTES

- SPECIFIED ON PLAN FLOOR JOISTS SERIES & SPACING IS PER THE FLOOR JOIST MANUF.
- SPACING SHALL NOT EXCEED 19.2" O.C. (MAX.) @ LOCATION OF TILE: SPACING SHALL NOT EXCEED 16" O.C. (MAX.)

Lot 373 5920-04 Cypress Cove Elevation B Right-Hand Garage

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:

5 MPH WIND IN 2018 NCSBC:RO

(115 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NGSBG:RG, ACCORDINGLY THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBC:RC SECTION R802.II.I.I. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.54 R802.II.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: FASTEN SHEATHING W/ 2 🖁 "XO.II3 NAIL5 @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP, U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES (1/6" CROWN) @ 3" O.C. AT EDGES \$ @ 6" O.C IN FIELD.

3" O.C. EDGE NAILING

 AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING W 2 🖁 × 0.113" NAILS @ 3" O.C. AND 12" O.C. IN THE PANEL FIELD NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

TYP. UNIT SEPARATION WALL SHEATHING SPECIFICATION

•1/2" OR 5/8" GYPSUM WALL BOARD: FASTEN GWB SHEATHING TO FRAMING W/ 1 \$"x0.086" COOLER NAILS OR I 1/4" DRYWALL SCREWS @ 7" O.C. " PANEL EDGES & PANEL FIELD (INCLUDING T&B PLATES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN. T WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED W/ OSB OR PLYWOOD W/ 3" x 0.120" NAILS @ 4" O.C. (THRU ONE SIDE ONLY)

INDICATES EXTENT OF INT. OSB SHEARWALL, BLOCKED PANEL EDGES. AND/OR 3" O.C. EDGE NAILING INDICATES HOLDOWN

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lulhern+Kulp project numbe 243-2403

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11-07-24

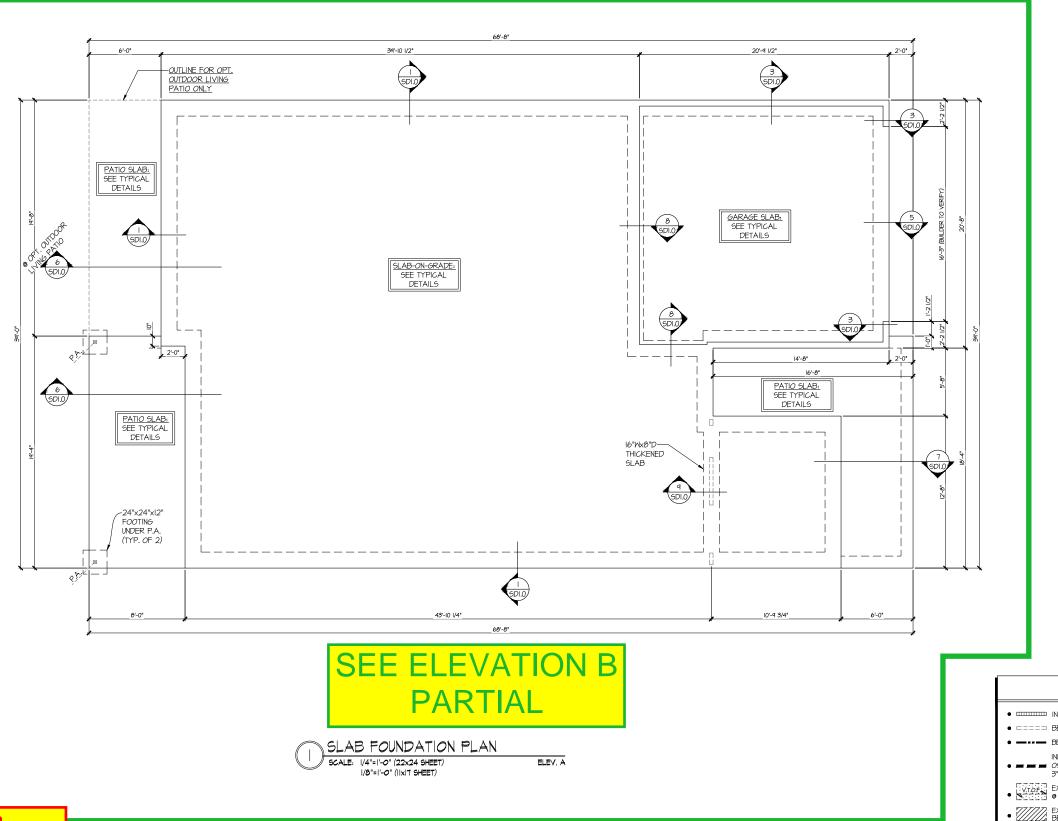
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05-16-25 Per updated af JPP

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NOTE GENERAL SERENITY MASTER SET RALEIGH, NC 5920-04

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UNDER 9,000 FT² -**GARAGE SIDE & NON-GARAGE SIDE**

<u>Lot 373</u> 5920-04 Cypress Cove Elevation B Right-Hand Garage

LEGEND

- INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT.

 OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING

- ► INDICATES HOLDOWN
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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Mulhern+Kulp project number: 243-24030

SMK SMN issue date: 11-07-24

REVISIONS:

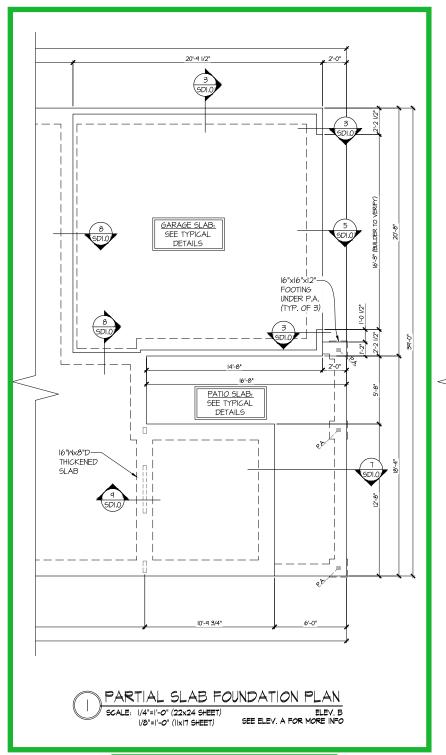
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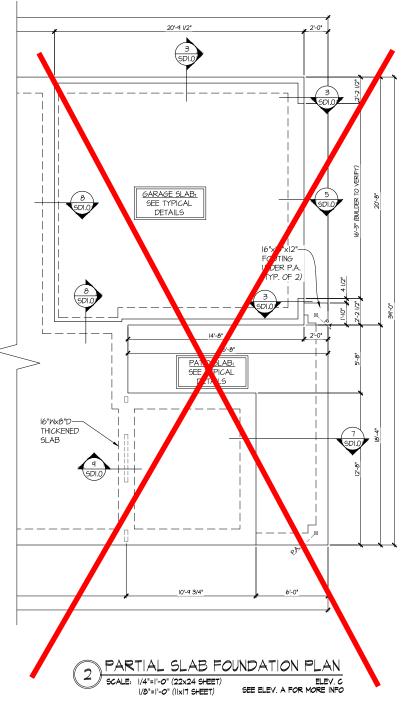
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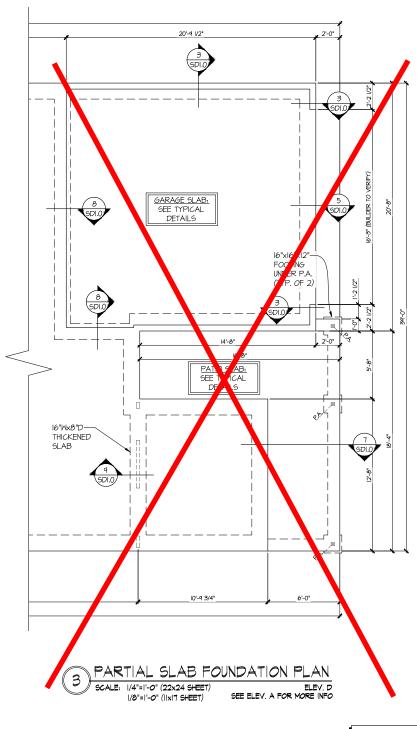
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SERENITY MASTER SET RALEIGH, NC

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REFER TO SO.O FOR

TYPICAL STRUCTURAL NOTES

SCHEDULES

ELEVATION B

GARAGE SIDE & NON-GARAGE SIDE

Lot 373 5920-04 Cypress Cove Elevation B Right-Hand Garage

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT ■ 05B SHEARWALL AND/OR 3" O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING
- EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
- NDICATES HOLDOWN
- JL METAL HANGER
- | INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

FOUNDATION PLAN 5920-04 MODEI

SERENITY MASTER SET RALEIGH, NC

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3005 Buoloide Parkney, Sain 250 - Aphaetta, SA 30022

p.770-777-8014 - malbrandap.com

NC LICENSE # C-3925

Mulhern+Kulp project number:

issue date:

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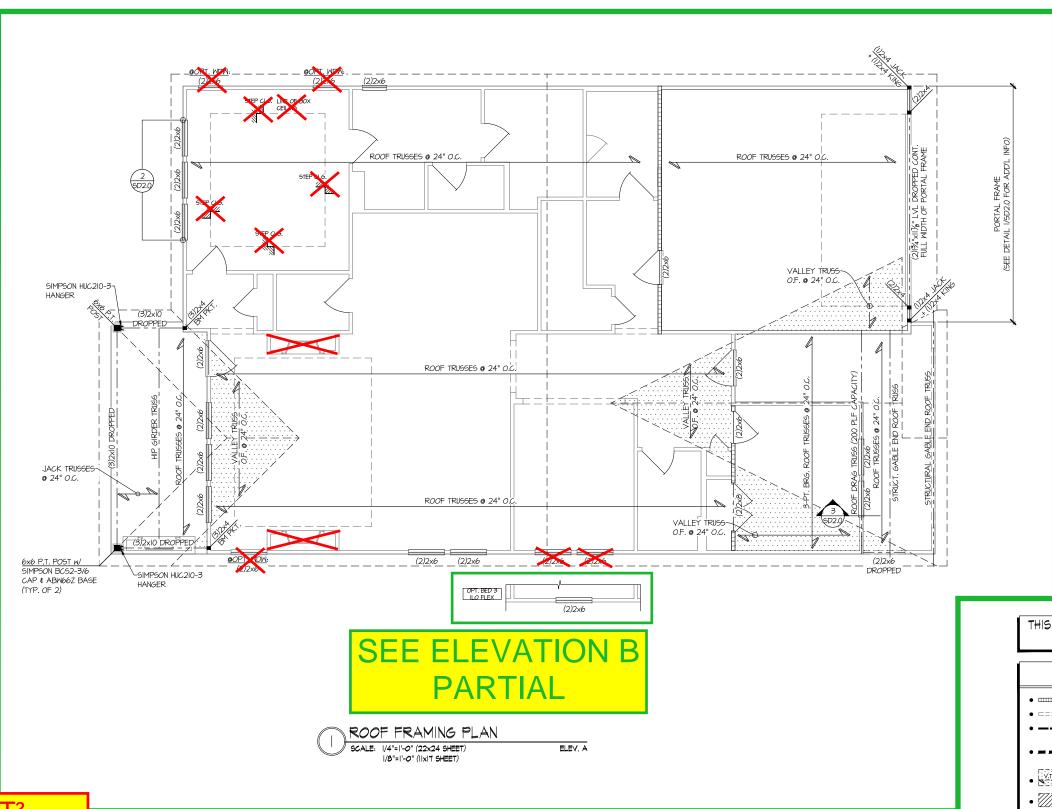
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11-07-24

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Lot 373 5920-04 Cypress Cove **Elevation B** Right-Hand Garage

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE (B.W.A.)
- INDICATES EXTENT OF INT.

 OSB SHEARWALL AND/OR 3" O.C. EDGE NAILING

- ► INDICATES HOLDOWN
- * INDICATES POST ABOVE. PROVIDE SOLID

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

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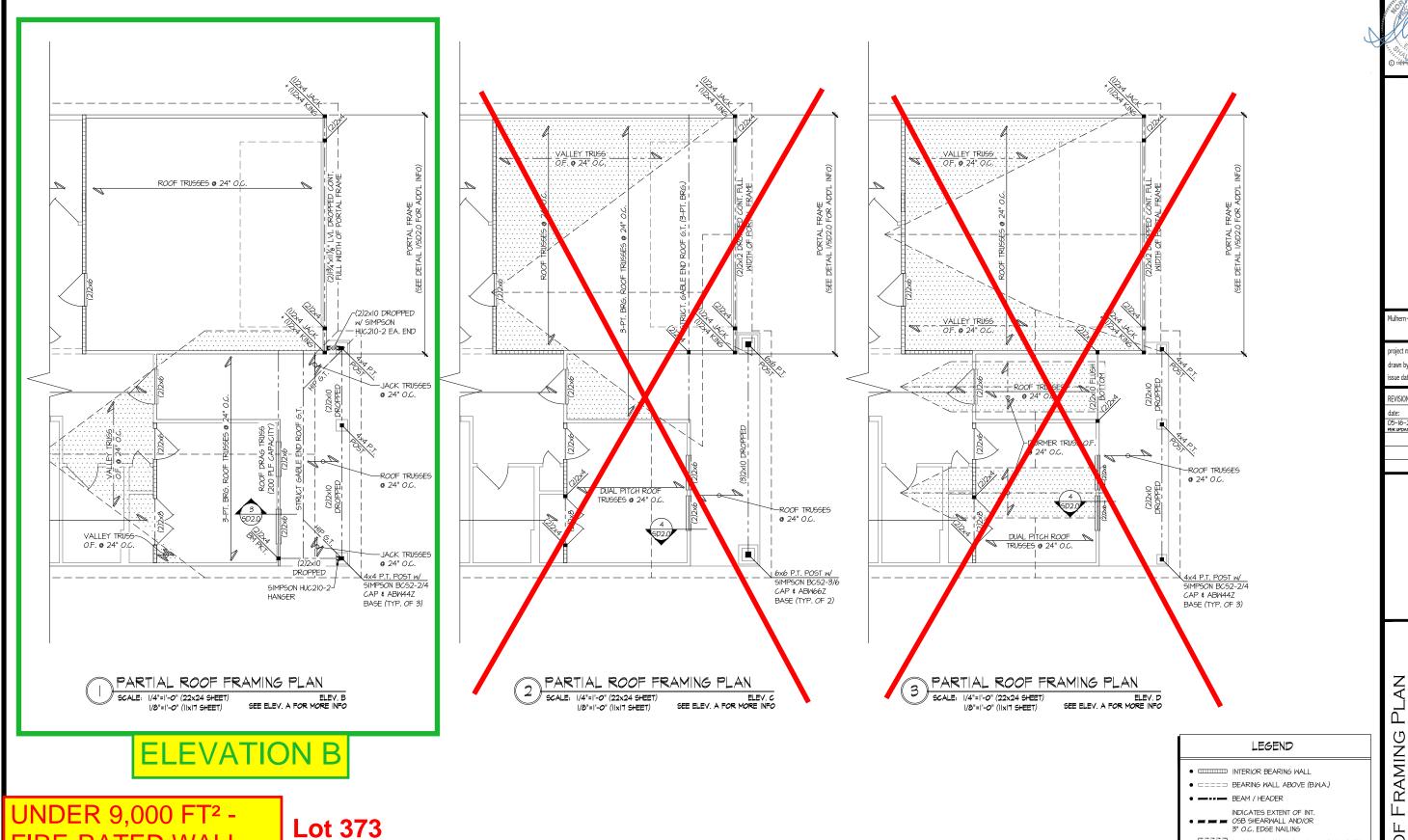
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ROOF FRAMING PLAN 5920-04 MODEI

SERENITY MASTER SET RALEIGH, NC

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Lot 373 5920-04 Cypress Cove **Elevation B** Right-Hand Garage

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES # SCHEDULES

- EXTENT OF VALLEY TRUSS OVERFRAMING
- EXTENT OF FLOOR SYSTEM TO BE DESIGNED FOR TILE
- NDICATES HOLDOWN
- JL METAL HANGER
- | INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE

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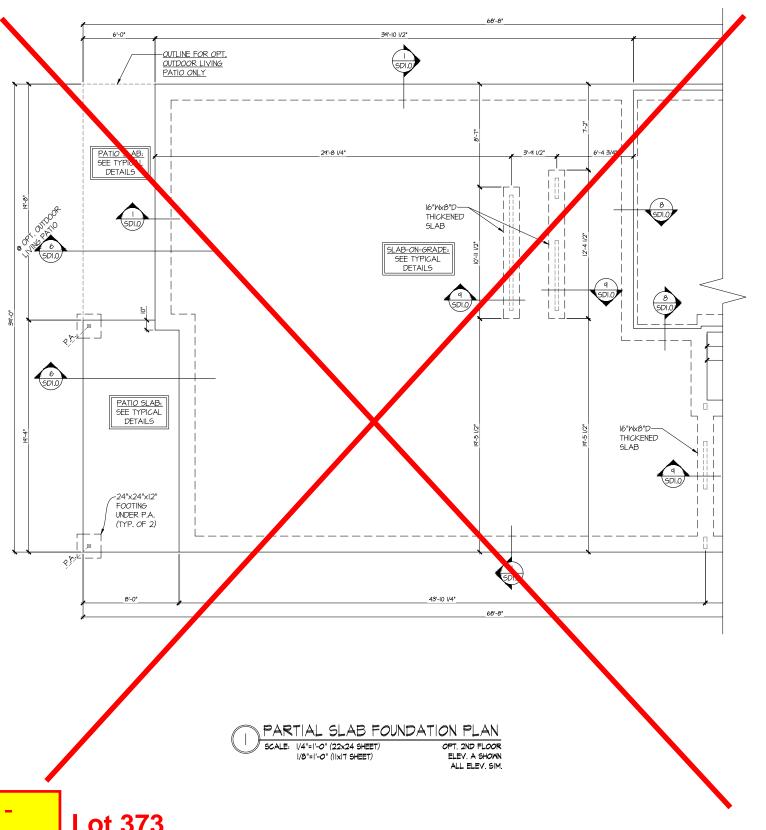
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ROOF FRAMING PLAN 5920-04 MODEI

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SERENITY MASTER SET RALEIGH, NC



<u>Lot 373</u> 5920-04 Cypress Cove Elevation B Right-Hand Garage

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8.776-777-8014 - malliamatop.com
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date: 05-16-25 per updated arc JPP

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- ==== BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER

- INDICATES POST ABOVE. PROVIDE SOLID

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

• IIIII INTERIOR BEARING WALL

INDICATES EXTENT OF INT.

OSB SHEARWALL AND/OR
3" O.C. EDGE NAILING

EXTENT OF VALLEY TRUSS OVERFRAMING

► INDICATES HOLDOWN

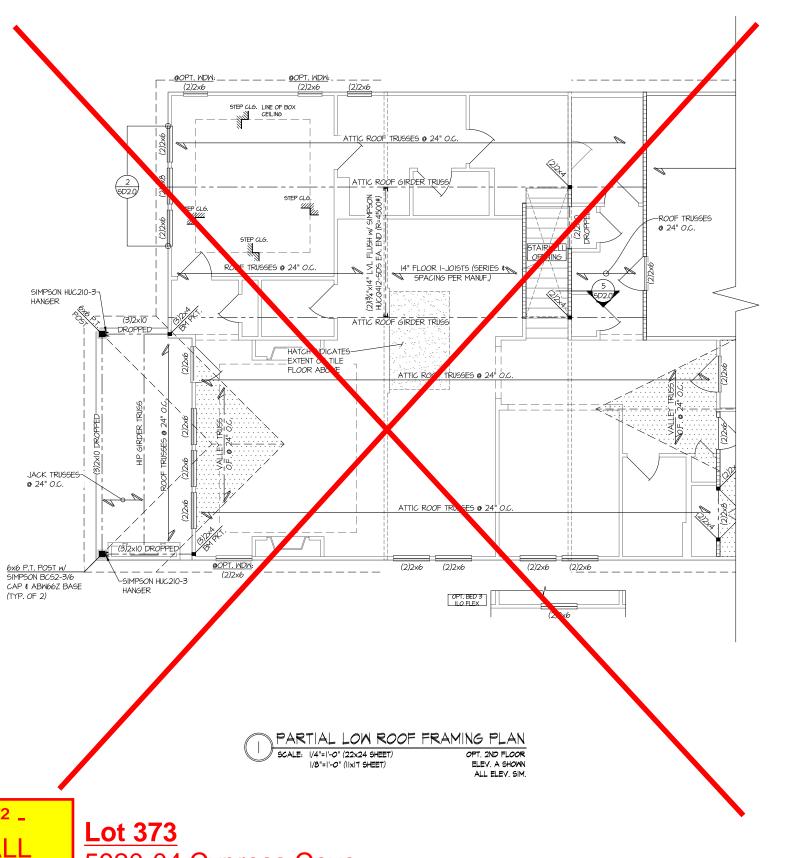
BLOCKING UNDER POST OR JAMB ABOVE.

STRUCTURAL OPTIONS

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5920-04 MODEI

SERENITY MASTER SET RALEIGH, NC



FIRE-RATED WALL
REQUIRED AT
GARAGE SIDE &
NON-GARAGE SIDE

Lot 373
5920-04 Cypress Cove
Elevation B
Right-Hand Garage

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Mulhern+Kulp project number: 243-24030

project mgr: SMM drawn by: SMM issue date: 1 1-07-24

REVISIONS:

date: initial:
05-16-25 JPP
PER UPDATED ARCH

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THIS LEVEL HAS BEEN DESIGNED FOR 9'-I" PLATE HEIGHT

LEGEND

- INTERIOR BEARING WALL
- □==== BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADE
- INDICATES EXTENT OF INT.

 OSB SHEARWALL AND/OR
 O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING
 24" O.C. (MAX.)
- 777777, EXTENT OF FLOOR SYSTEM
- ► INDICATES HOLDOWN
- METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

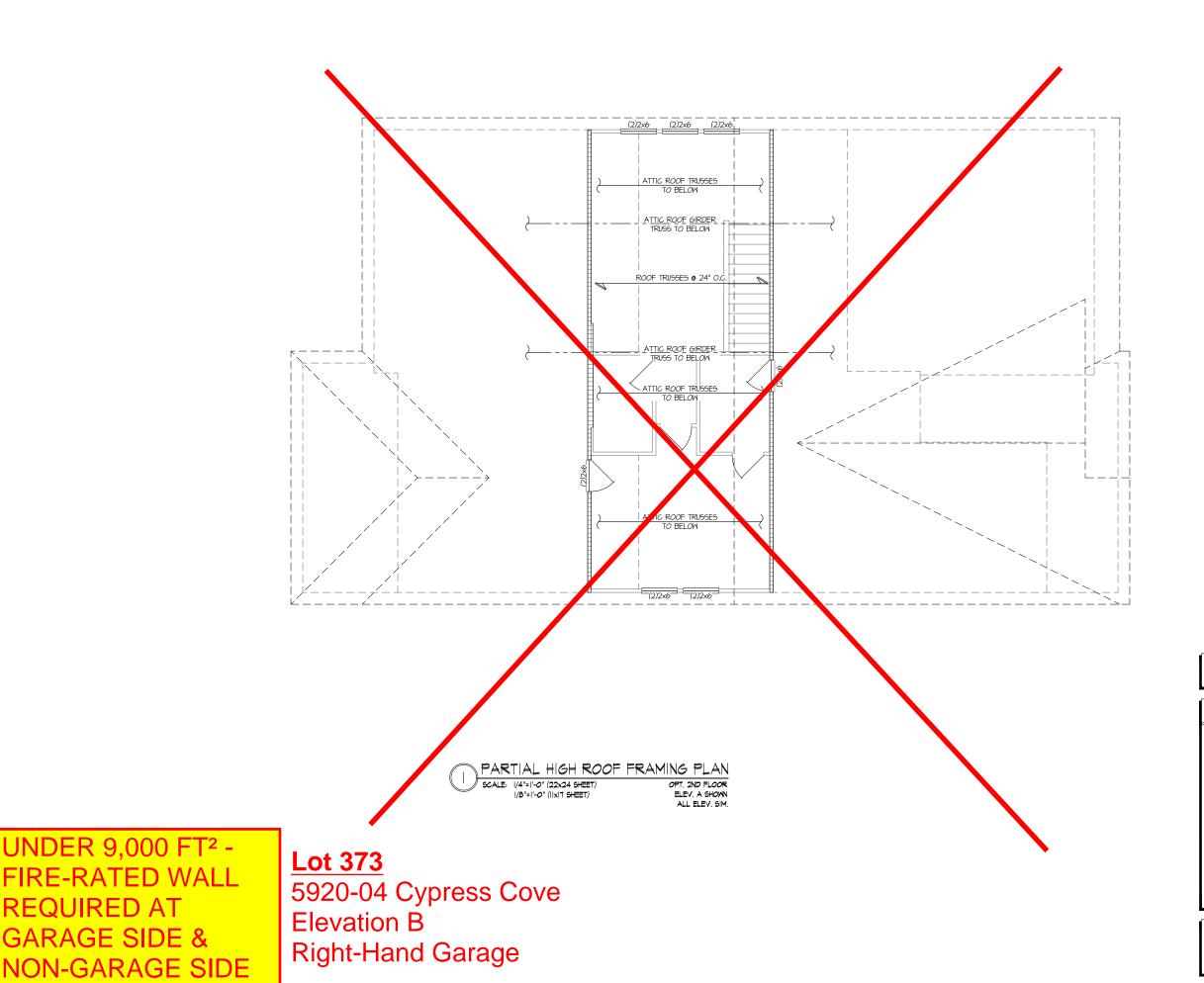
REFER TO SO.O FOR
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\$ SCHEDULES

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STRUCTURAL OPTIONS 5920-04 MODEL

5920–04 Serenty Master set Raleigh, nc

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GARAGE SIDE &

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3005 Resolving Parkway, Saire 250 - Advances, 84,3002

9,78-77-6074 - mailtonical com

NC License # C-3825



243-24030

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REVISIONS:

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THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

LEGEND

- INTERIOR BEARING WALL
- □===□ BEARING WALL ABOVE (B.W.A.)
- INDICATES EXTENT OF INT.

 OSB SHEARWALL AND/OR
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- ► INDICATES HOLDOWN
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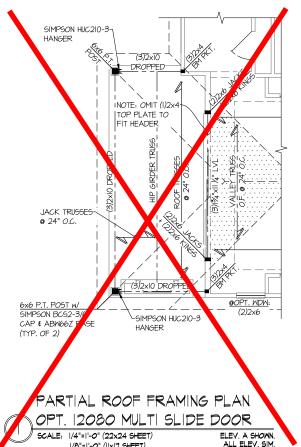
REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

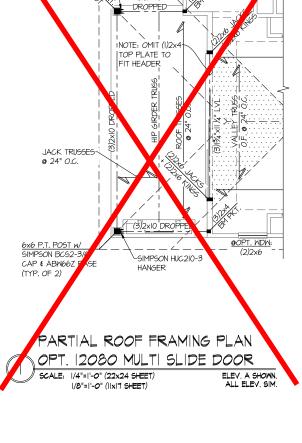
STRUCTURAL OPTIONS

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5920-04 MODEI

SERENITY MASTER SET RALEIGH, NC





<u>Lot 373</u> 5920-04 Cypress Cove Elevation B Right-Hand Garage

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3005 Resolute Parkvey, Sale 250 - Aphaema, SA, 2002

p.705-777-6974 - mediamicajacom

NC. Licence # C-3925



Mulhern+Kulp project number: 243-24030

SMK SMN issue date: 11-07-24

REVISIONS:

date: 05-16-25 PER UPDATED ARCI JPP

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LEGEND

- IIIIII INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE (B.W.A.)
- BEAM / HEADER
- INDICATES EXTENT OF INT.

 OSB SHEARWALL AND/OR
 3" O.C. EDGE NAILING
- EXTENT OF VALLEY TRUSS OVERFRAMING

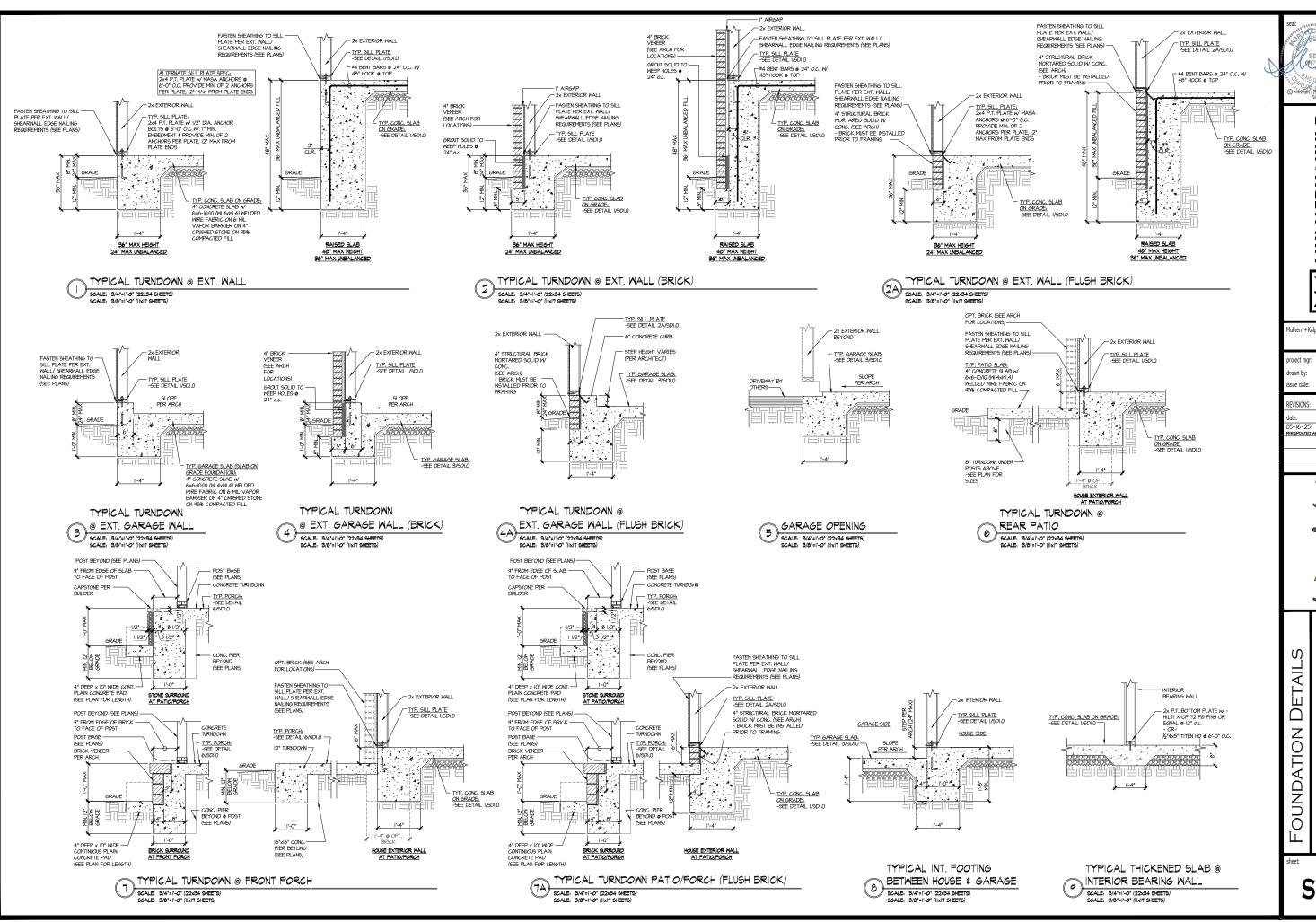
 24" O.C. (MAX.)
- INDICATES HOLDOWN
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

REFER TO SO.O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

STRUCTURAL OPTIONS 5920-04 MODEI

SERENITY MASTER SET RALEIGH, NC

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lulhern+Kulp project number 243-2403 SMK SMN

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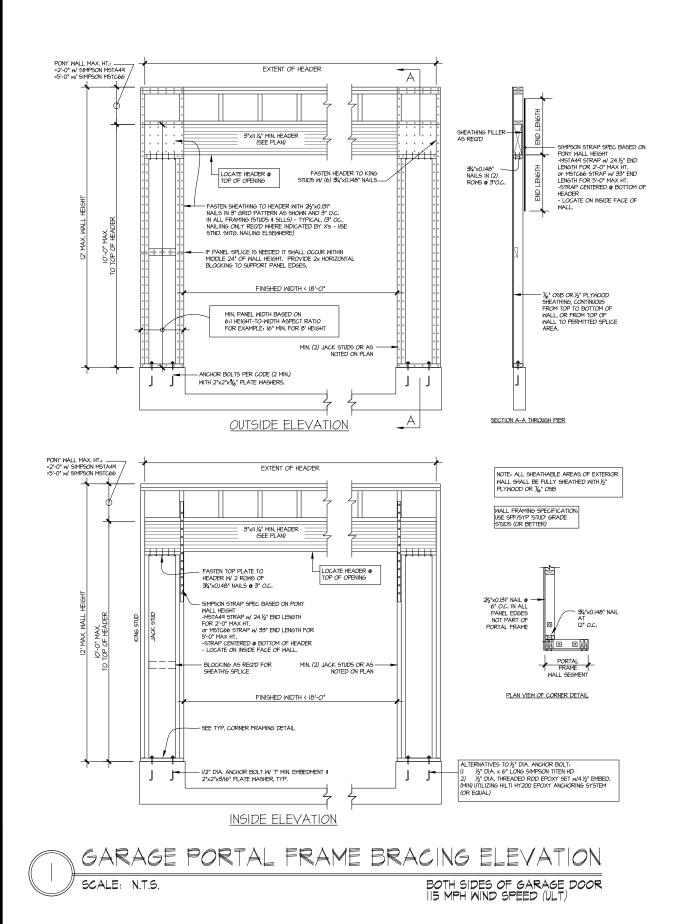
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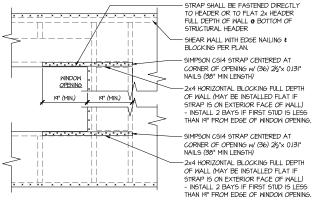
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SERENITY MASTER SET RALEIGH, NC 5920-

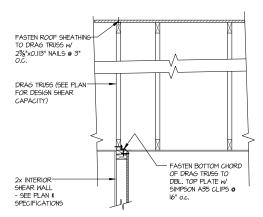
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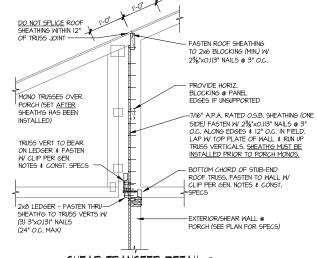


- STRAPS MAY BE INSTALLED ON EXTERIOR OR INTERIOR FACE OF WALL WHEN INSTALLED ON THE EXTERIOR FACE OF THE WALL, STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHTG. (MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR WINDOW NAILING
 REQUIRED ONLY @ OPENINGS WHERE SPECIFIED ON PLAN

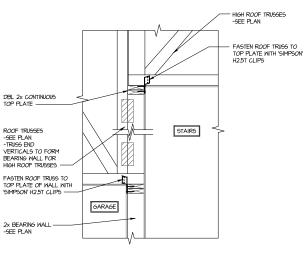
TYPICAL EXT. WALL & INT. SHEARWALL OPENING ELEVATION SCALE: NTS



DRAG TRUSS DETAIL 3 DRAG TR



SHEAR TRANSFER DETAIL @ BREAK IN TRUSSES OVER SHEAR WALL SCALE: 3/4"=1'-0" - 22x34 3/8"=1'-0" - 11x17



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Aulhern+Kulp project number 243-24030

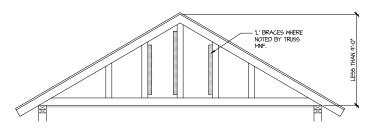
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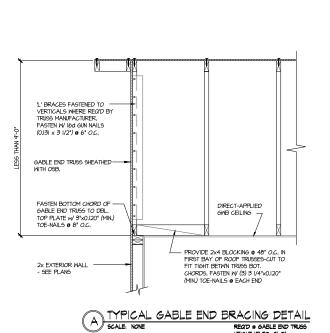
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Ŋ DETAIL MODE FRAMING SERENITY MASTER SET RALEIGH, NC 5920-04

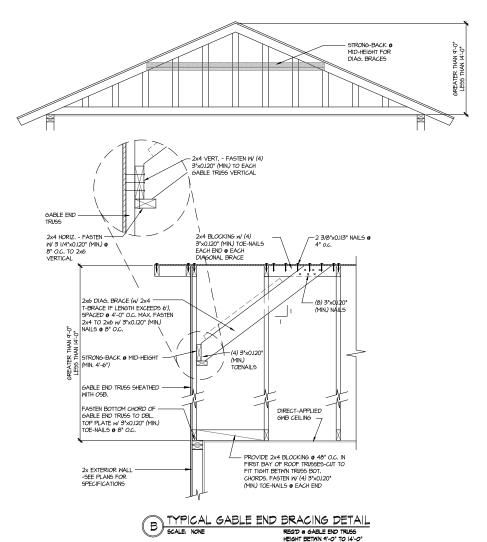
SD2.0





BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9"-0". "L" BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.

REQ'D @ GABLE END TRUSS HEIGHT UP TO 9'-0'



BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT EXCEEDS 9'-0'. "L' BRACES NOT REQUIRED.

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RESIDENTIAL STRUCTURAL ENSINEERING

3005 Brodside Parkway, Sale 250 - Alphaenta, 9A 3002

p.778-777-6974 - markemiziquam

NC Licence # C-38.25

Mulhern+Kulp project number: 243-24030

SMK SMM drawn by: issue date: 11-07-24

REVISIONS: date: 05-16-25 PER UPDATED ARCH initial: JPP

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FRAMING DETAILS 5920-04 MODEL SERENITY MASTER SET RALEIGH, NC

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925 Single Hung

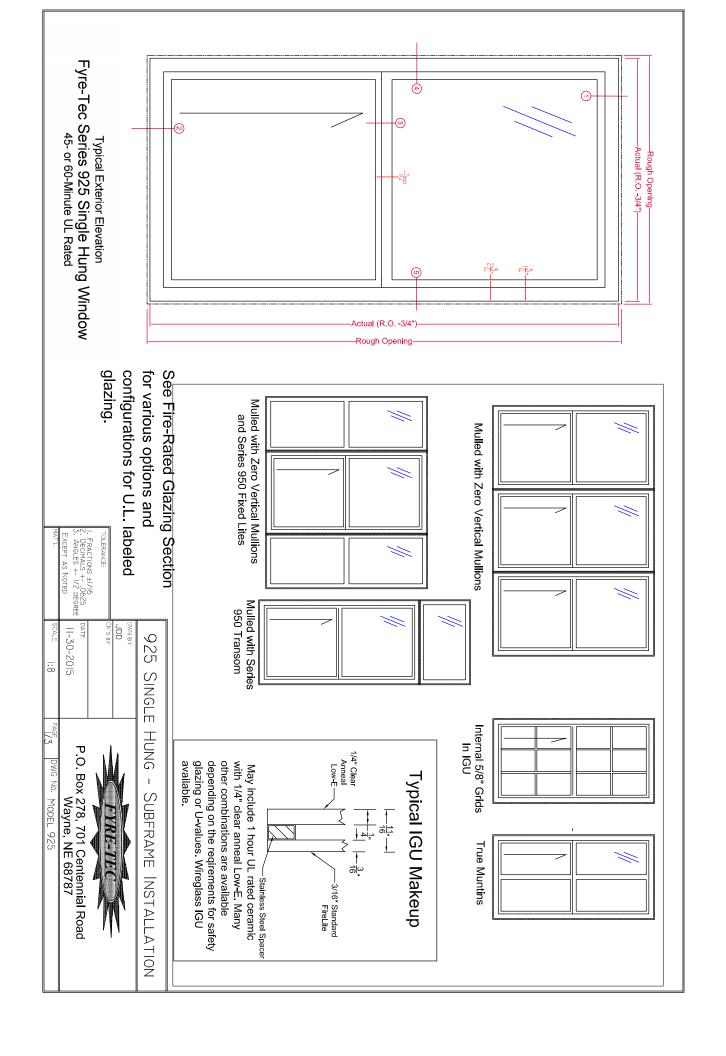


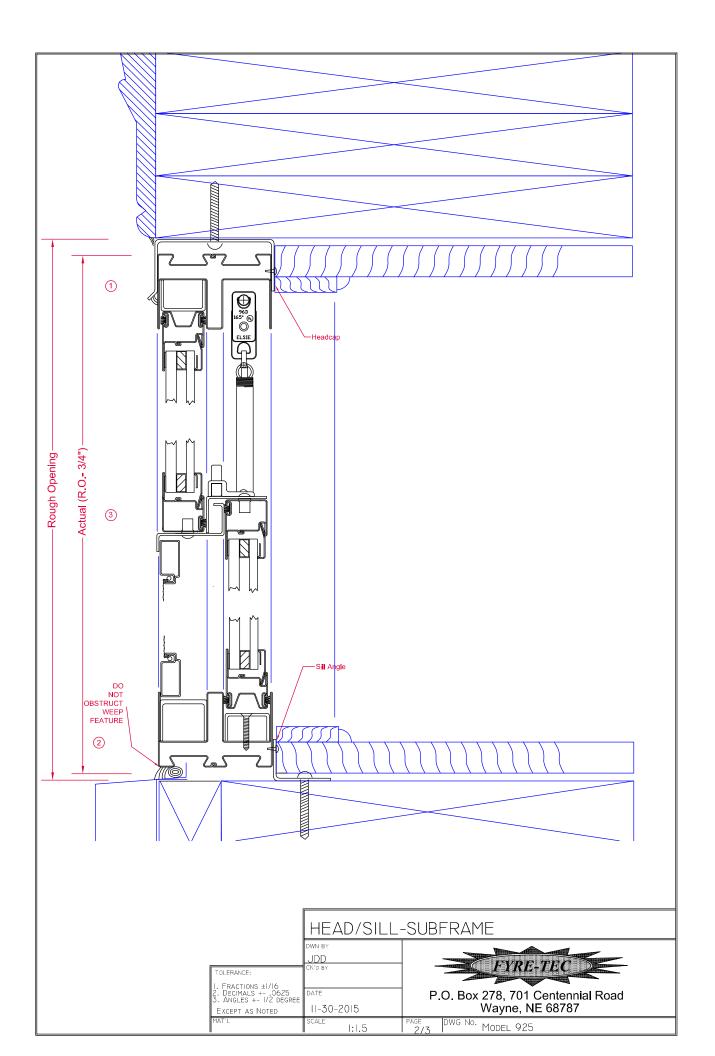
Fusible Link with Attached Balance Spring

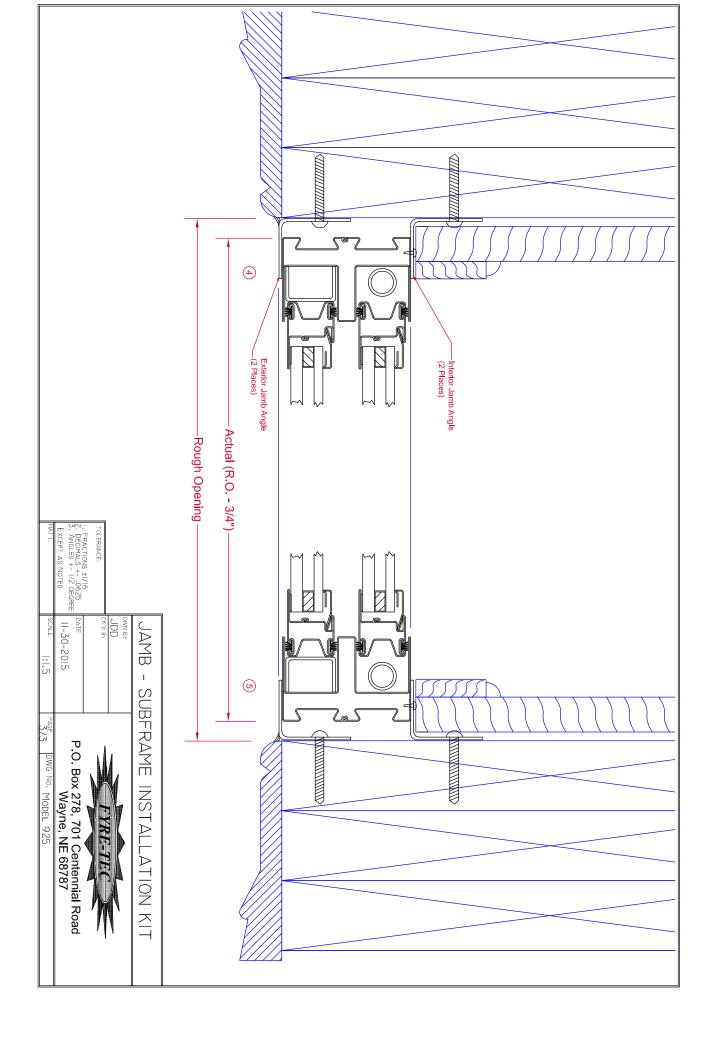


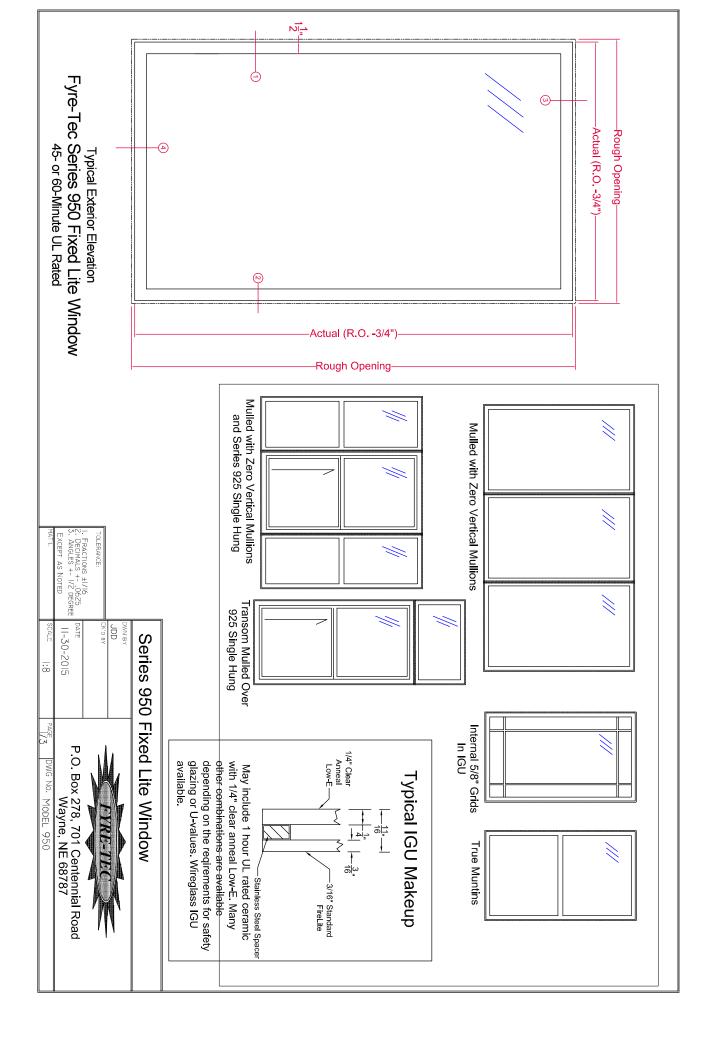


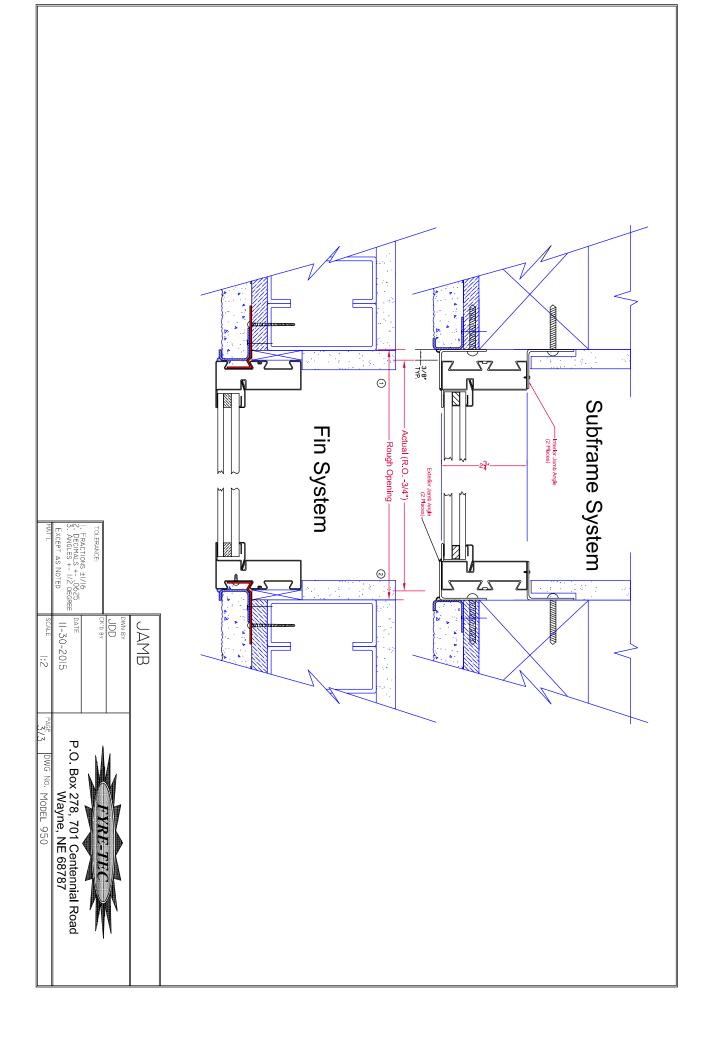


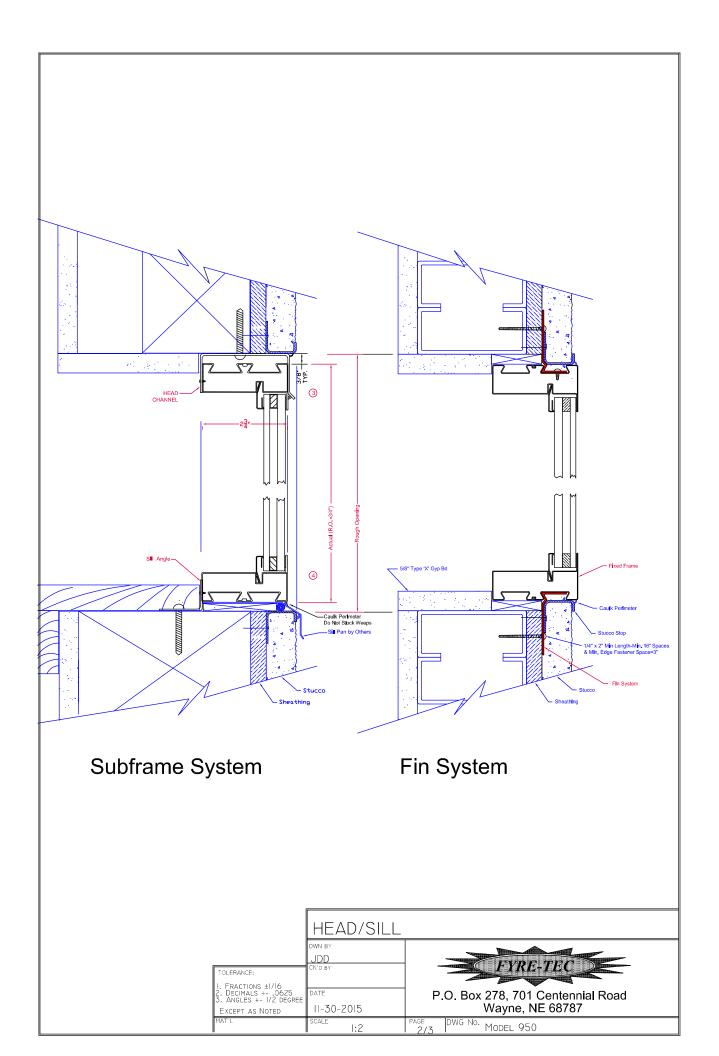












Fin Mounting System Installation Procedure

The window and installation components should be inspected for any shipping damage. All local codes must be followed and supersede any of the following instructions. All finished surfaces of the window must be protected from damage to frame, paint, and glazing surfaces throughout the complete installation and wall finalization. This is to include stucco, drywall, brickwash or any other cleaning technique other than that recommended by Fyre-Tec. Failure to protect the window will VOID any applicable warranties. Protective coverings are recommended.

Opening Requirements

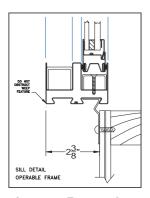
The opening should be built square and plumb and large enough to accept the window(s) provided. Windows are provided ¾" less in both width and height from the rough or nominal opening size. This allows for a 3/8" gap around the entire perimeter of the window to be properly squared and shimmed in the opening. It is recommended that the sill of the window be shimmed no less than ¼" above the construction sill to accommodate the weep feature of the window.

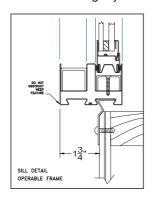
Opening Preparation

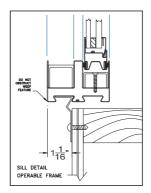
The window opening is to be prepared in conformance with local code and approved construction drawings. On openings other than masonry it is recommended that the perimeter be prepped with an air-barrier type window wrap and flashing system. Sill panning is recommended for optimal protection against water penetration. Panning and air barriers are not provided by Fyre-tec.

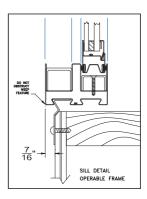
Fin Mounting to Window

The mounting fins are supplied loose and are to be mounted to the window with the self-tapping screws supplied. Window frame depth in relationship to the finished wall may be adjusted in four increments by selecting the mounting position on the perimeter of the frame as shown in the following layout.



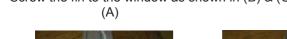






Attachment Procedure

- 1. *Pre-drill holes using a 3/16" bit in the fin to be mounted to the window (short leg). The screws are to be positioned 1" from each end of the individual fins and then placed 24" on center thereafter. The hole should be centered on the leg. *Pre-drill holes using a bit large enough to accept fasteners being used in fin for mounting to wall (Long Leg). Hole locations should be no more than 3" from each end of the individual fins and then placed 16" on center thereafter. The holes should be place in a known location as to allow fastener to penetrate a structural member of the wall.
- 2. Caulk bedding is to be applied around the perimeter of the frame in the frame recess that the fin is intended to be mounted. As shown (A). Any other holes or voids in the perimeter of the frame must be sealed as well to prevent water penetration into the wall cavity.
- Screw the fin to the window as shown in (B) & (C)









<u>Note</u>: The sill of **operable windows** have additional factory applied butyl tape to further assist in preventing water leaking into wall cavity.

Window Installation in Opening

Installation will require a minimum of two people.

One individual should remain on the exterior to hold the window in place and the other on the interior to center the window in the opening using a flat pry-bar or shim. All sides on the interior should have approximately 3/8" gap from wall opening to window edge. Shim using an approved material. Check window for level in the opening and complete shim application. Once the window is shimmed properly, attach the fin on the exterior to a structural member per an approved method as laid out by an architect or authority having jurisdiction. Special attention should be made with the weep feature of the window in the exterior sill. A minimum 1/4" gap should be maintained between the sill of the window and the construction sill of the wall to allow for proper weeping and drainage from the window.





INTERIOR



EXTERIOR



When attaching the Fin to the wall section keep the corners loose to apply the Fin corner pieces. Caulk corner of wall where Fin will be placed as seen in picture to (left). Pull fin away from wall slightly and slide fin underneath as shown in picture (lower left). Once all Fin corners are installed caulk all exposed seams using an approved sealant shown (lower right). The window is now ready to be flashed.

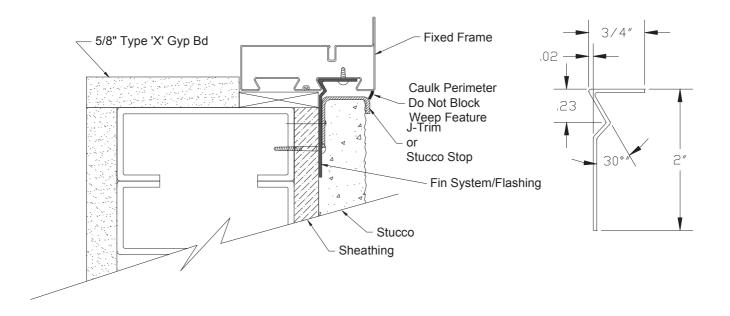




Flashing the Installation

Flashing the exterior gives added protection against water penetration. The recommended procedure for flashing the opening is to use a flexible adhesive backed window wrap. Each application of the window wrap should be cut extra long as to allow over lapping in each of the corners, at least the width of the wrap itself. The wrap should contact the window frame and be applied per manufacture specification.

If stucco is the desired finished wall exterior a J-channel trim must be used to keep the stucco from contacting the perimeter of the window frame. Protection against stucco from getting on the window and glazing surfaces is important.



Finalizing the Installation & Weep Feature

Once the wall construction is complete and stucco, siding, masonry or other application is complete, a perimeter beading of approved sealant is needed. Use caution when sealing around the weep feature.

The weep feature is a very important part in the longevity of the window's life span. On exterior applications special attention should be made to the exterior sill and the windows weep feature. The weep located 2" in from both corners of the sill and should be inspected or verified that the weep is open to a gap of 1/8" by approximately 7/8" long. Verification ensures that the weep has not been pinched down or crimped shut during shipping, handling, and installation. Failure to inspect the weep feature prior to finalizing the project can lead to water leakage as well as premature rusting with the window. If the slot needs additional adjustment carefully use a flat screwdriver or small pry-bar to make the gap more. Do not use excessive force, which can cause the frame to tear or crack the protective paint.



Tools Recommended:

-Safety glasses -Pencil -Power tool with drilling and screwing capabilities -Measuring tape -Hammer -Saw or power saw with metal cutting capabilities

-Caulking Gun -Level -Pry-bar for shimming and squaring

Supplies Needed:

Notice All supplies must be approved and meet local code requirements. Contact your local inspector for a list of their approved products.

-Sealant -Fasteners -Shims

Parts Shipped

Contained within each individual crate supplied are:

1-Window

*1-Trim kit containing:

Instructions

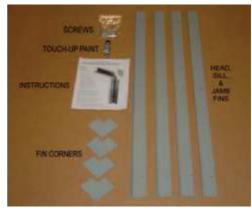
1-Head Fin

1-Sill Fin

2-Jamb Fins

4-Fin Corners

**Touchup paint



**Screws for applying fin (Not shown) Mullions if applicable Notes:

The window and parts should be inspected for shipping damage prior to installation
*If trim kit exceeds the length of the window it will be provided in separate box.

**Note: Depending upon the quantity of windows, touchup paint and screws may be provided in larger bags with enough quantity to cover the whole order. These bags will be attached to only one or several trim kits depending on order quantity. Location of these items will be identified on the shipped crate being marked as "SCREWS"

925 Single Hung



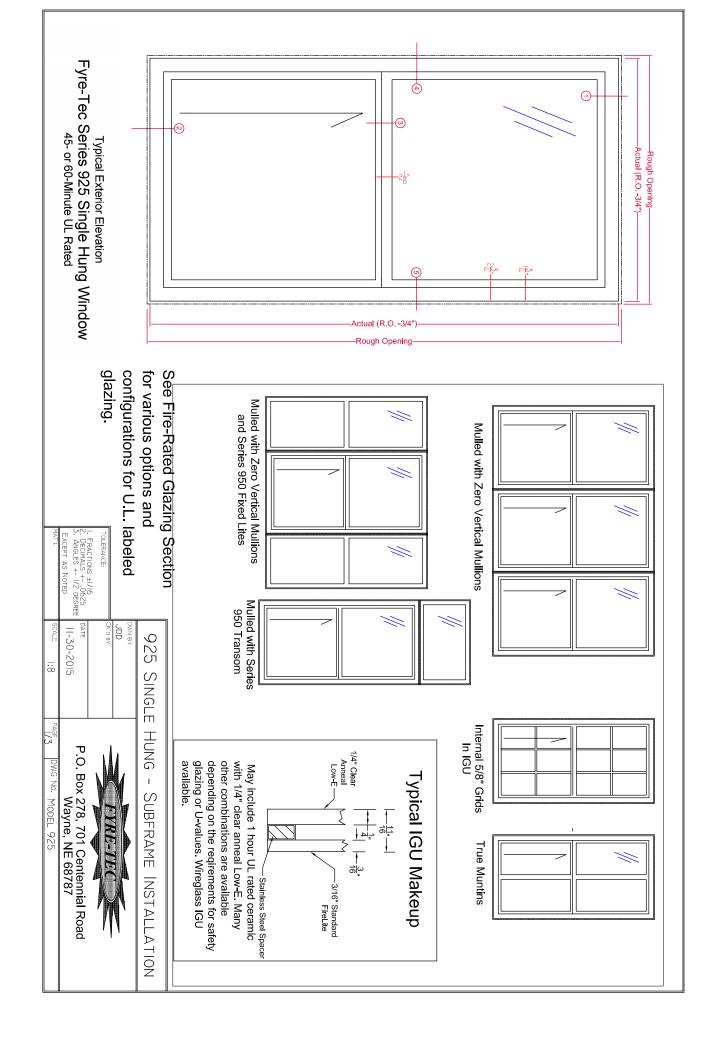
Fusible Link with Attached Balance Spring

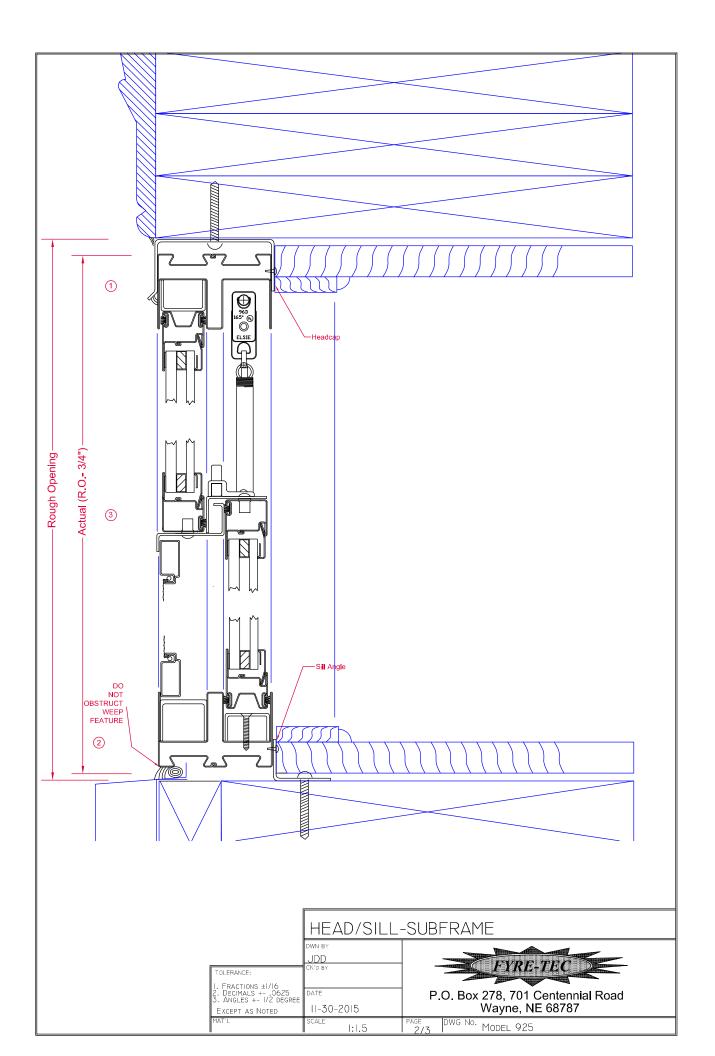


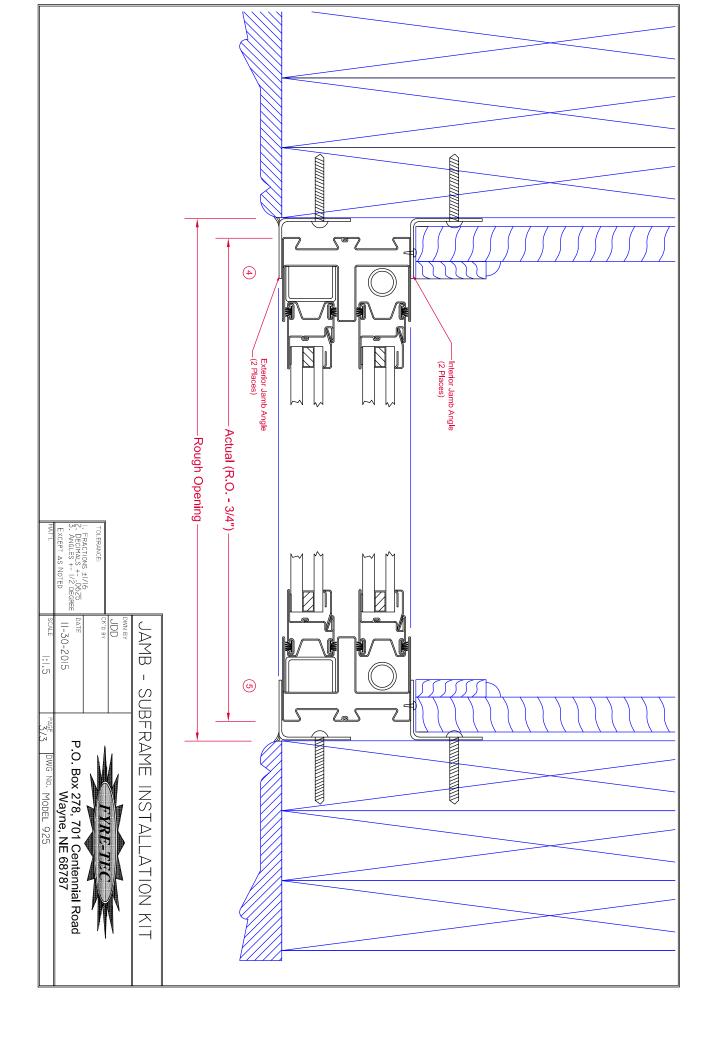
Latch and Handle

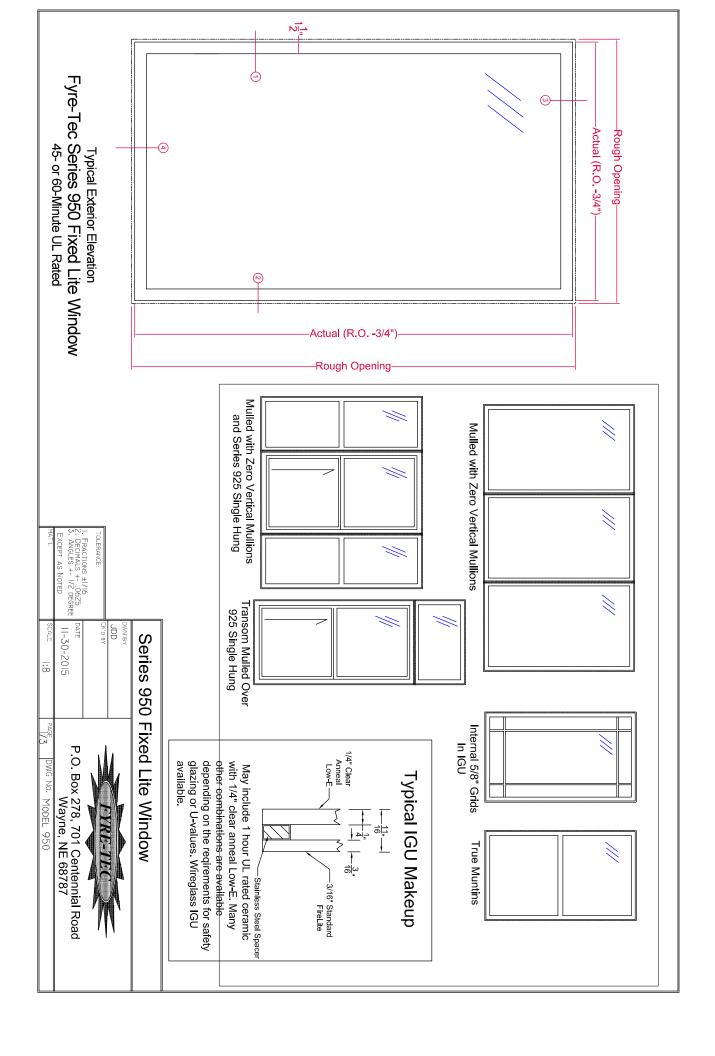


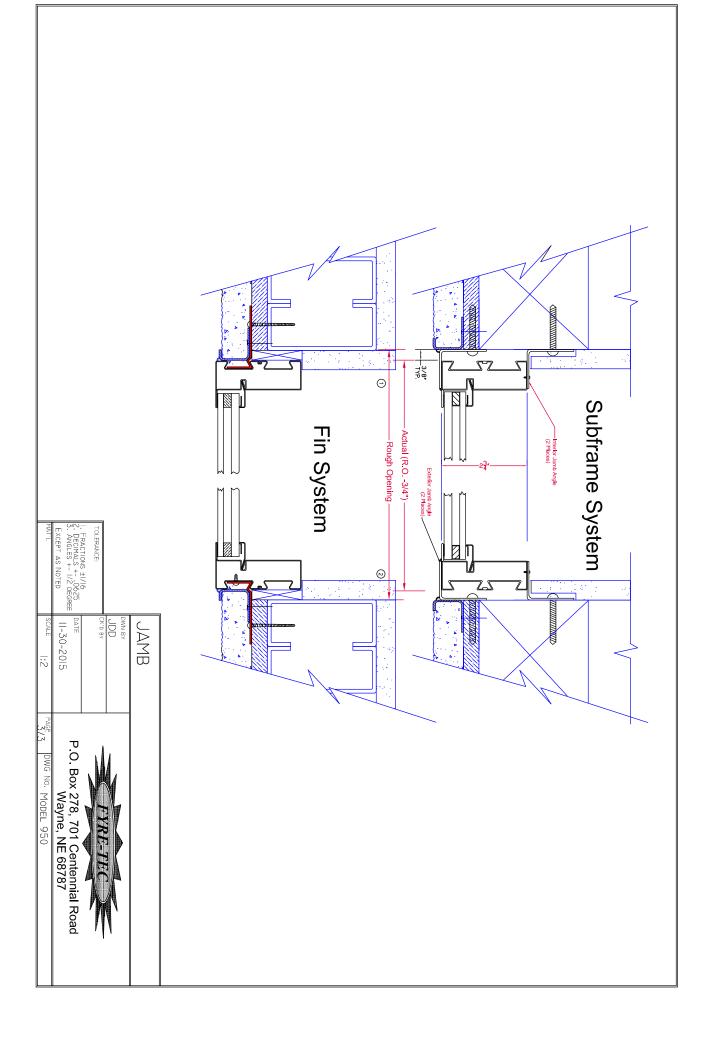


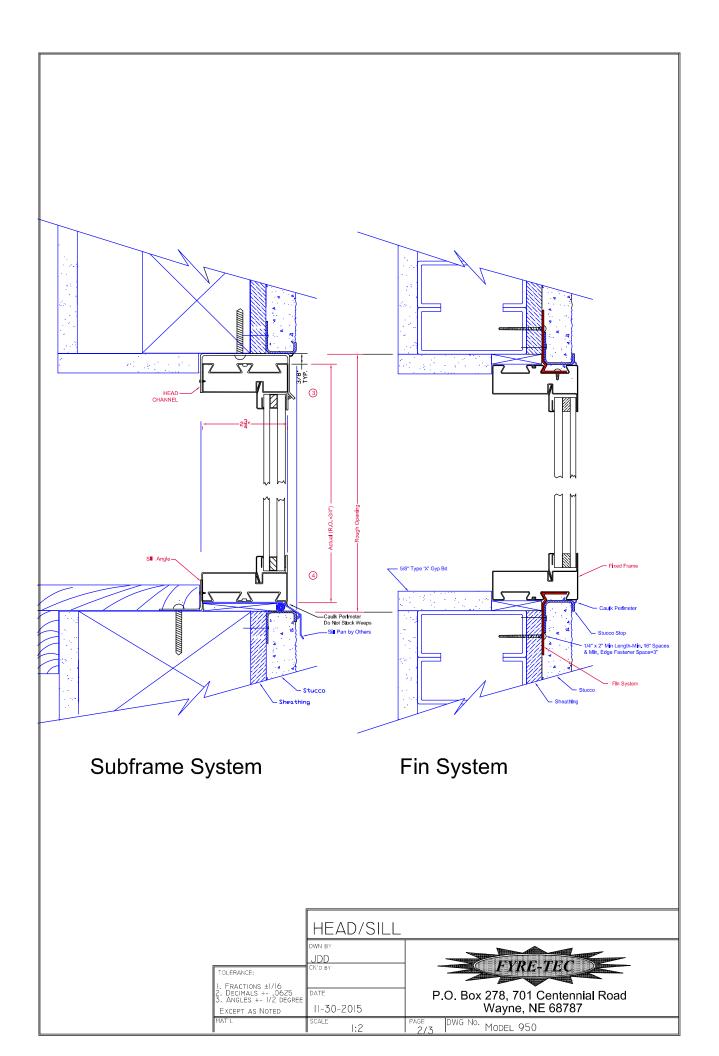












Fin Mounting System Installation Procedure

The window and installation components should be inspected for any shipping damage. All local codes must be followed and supersede any of the following instructions. All finished surfaces of the window must be protected from damage to frame, paint, and glazing surfaces throughout the complete installation and wall finalization. This is to include stucco, drywall, brickwash or any other cleaning technique other than that recommended by Fyre-Tec. Failure to protect the window will VOID any applicable warranties. Protective coverings are recommended.

Opening Requirements

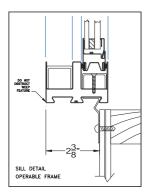
The opening should be built square and plumb and large enough to accept the window(s) provided. Windows are provided ¾" less in both width and height from the rough or nominal opening size. This allows for a 3/8" gap around the entire perimeter of the window to be properly squared and shimmed in the opening. It is recommended that the sill of the window be shimmed no less than ¼" above the construction sill to accommodate the weep feature of the window.

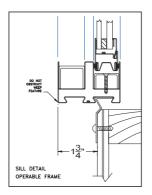
Opening Preparation

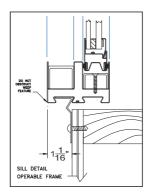
The window opening is to be prepared in conformance with local code and approved construction drawings. On openings other than masonry it is recommended that the perimeter be prepped with an air-barrier type window wrap and flashing system. Sill panning is recommended for optimal protection against water penetration. Panning and air barriers are not provided by Fyre-tec.

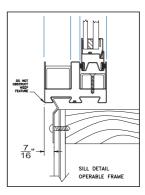
Fin Mounting to Window

The mounting fins are supplied loose and are to be mounted to the window with the self-tapping screws supplied. Window frame depth in relationship to the finished wall may be adjusted in four increments by selecting the mounting position on the perimeter of the frame as shown in the following layout.



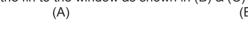






Attachment Procedure

- *Pre-drill holes using a 3/16" bit in the fin to be mounted to the window (short leg). The screws are to be positioned 1" from each end of the individual fins and then placed 24" on center thereafter. The hole should be centered on the leg.
 *Pre-drill holes using a bit large enough to accept fasteners being used in fin for mounting to wall (Long Leg). Hole locations should be no more than 3" from each end of the individual fins and then placed 16" on center thereafter. The holes should be place in a known location as to allow fastener to penetrate a structural member of the wall.
- 2. Caulk bedding is to be applied around the perimeter of the frame in the frame recess that the fin is intended to be mounted. As shown (A). Any other holes or voids in the perimeter of the frame must be sealed as well to prevent water penetration into the wall cavity.
- Screw the fin to the window as shown in (B) & (C)









<u>Note</u>: The sill of **operable windows** have additional factory applied butyl tape to further assist in preventing water leaking into wall cavity.

Window Installation in Opening

Installation will require a minimum of two people.

One individual should remain on the exterior to hold the window in place and the other on the interior to center the window in the opening using a flat pry-bar or shim. All sides on the interior should have approximately 3/8" gap from wall opening to window edge. Shim using an approved material. Check window for level in the opening and complete shim application. Once the window is shimmed properly, attach the fin on the exterior to a structural member per an approved method as laid out by an architect or authority having jurisdiction. Special attention should be made with the weep feature of the window in the exterior sill. A minimum 1/4" gap should be maintained between the sill of the window and the construction sill of the wall to allow for proper weeping and drainage from the window.





INTERIOR



EXTERIOR



When attaching the Fin to the wall section keep the corners loose to apply the Fin corner pieces. Caulk corner of wall where Fin will be placed as seen in picture to (left). Pull fin away from wall slightly and slide fin underneath as shown in picture (lower left). Once all Fin corners are installed caulk all exposed seams using an approved sealant shown (lower right). The window is now ready to be flashed.

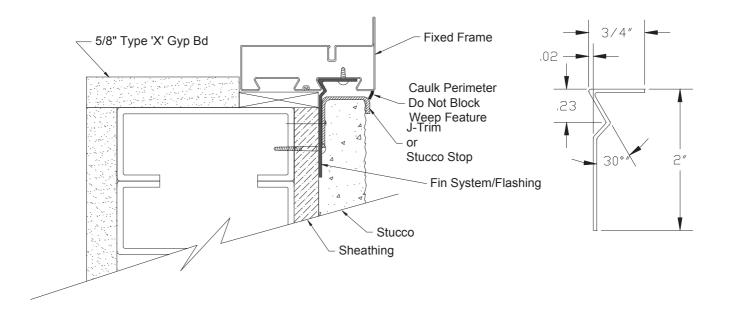




Flashing the Installation

Flashing the exterior gives added protection against water penetration. The recommended procedure for flashing the opening is to use a flexible adhesive backed window wrap. Each application of the window wrap should be cut extra long as to allow over lapping in each of the corners, at least the width of the wrap itself. The wrap should contact the window frame and be applied per manufacture specification.

If stucco is the desired finished wall exterior a J-channel trim must be used to keep the stucco from contacting the perimeter of the window frame. Protection against stucco from getting on the window and glazing surfaces is important.



Finalizing the Installation & Weep Feature

Once the wall construction is complete and stucco, siding, masonry or other application is complete, a perimeter beading of approved sealant is needed. Use caution when sealing around the weep feature.

The weep feature is a very important part in the longevity of the window's life span. On exterior applications special attention should be made to the exterior sill and the windows weep feature. The weep located 2" in from both corners of the sill and should be inspected or verified that the weep is open to a gap of 1/8" by approximately 7/8" long. Verification ensures that the weep has not been pinched down or crimped shut during shipping, handling, and installation. Failure to inspect the weep feature prior to finalizing the project can lead to water leakage as well as premature rusting with the window. If the slot needs additional adjustment carefully use a flat screwdriver or small pry-bar to make the gap more. Do not use excessive force, which can cause the frame to tear or crack the protective paint.



Tools Recommended:

-Safety glasses -Pencil -Power tool with drilling and screwing capabilities -Measuring tape -Hammer -Saw or power saw with metal cutting capabilities

-Caulking Gun -Level -Pry-bar for shimming and squaring

Supplies Needed:

Notice All supplies must be approved and meet local code requirements. Contact your local inspector for a list of their approved products.

-Sealant -Fasteners -Shims

Parts Shipped

Contained within each individual crate supplied are:

1-Window

*1-Trim kit containing:

Instructions

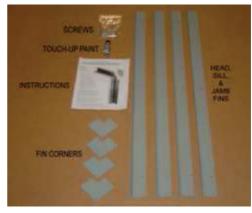
1-Head Fin

1-Sill Fin

2-Jamb Fins

4-Fin Corners

**Touchup paint



**Screws for applying fin (Not shown) Mullions if applicable Notes:

The window and parts should be inspected for shipping damage prior to installation
*If trim kit exceeds the length of the window it will be provided in separate box.

**Note: Depending upon the quantity of windows, touchup paint and screws may be provided in larger bags with enough quantity to cover the whole order. These bags will be attached to only one or several trim kits depending on order quantity. Location of these items will be identified on the shipped crate being marked as "SCREWS"



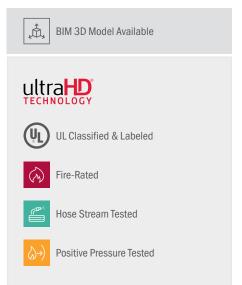
Fire-Rated Glass Ceramic Fire-Rating: 20-90 Minutes

FireLite is a 3/16" (5 mm) thick fire-rated glazing material. It is listed for use in non-impact safety-rated locations such as transoms and borrowed lites.

FEATURES

- ultraHD® Technology for improved surface quality, clarity and color
- Fire-rated for up to 90 minutes with required hose stream test
- · Clear and wireless glass ceramic
- Available in two surface grades: Premium and Standard
- Fits in Fireframes[®] Designer Series frames from TGP, or standard fire-rated frames

- · Withstands thermal shock
- · Large sizes available
- May be lightly sandblasted or etched on one side without affecting fire rating
- May be insulated (see FireLite IGU fact sheet)



Notes:

- 1. This product is not a barrier to radiant heat, as it does not meet test standards ASTM E119 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact TGP regarding Pilkington Pyrostop®.
- 2. FireLite is not an impact safety-rated product and should not be specified as such. However, TGP does offer FireLite Plus® and FireLite® NT which carry both fire and impact safety ratings. Please contact TGP for more details.

SURFACE GRADES

Standard Grade - Polished for a surface quality that is comparable to alternative fire-rated ceramics marketed as having a premium finish.

Premium Grade - Finish ground and polished on both surfaces to provide superior surface quality, improving overall clarity and providing a surface that is unmatched by alternative products.

LISTINGS/STANDARDS

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. Tests performed in accordance with:

UL9	NFPA 80	CAN4 S-104	MEA 290-90-M-6
UL 10B	NFPA 257	CAN4 S-106	LARR 25798
UL 10C			

MAXIMUM EXPOSED AREA

RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	OTHER THAN DOORS	3,325 in ² / 23.09 ft ² (2.15 m ²)	95" (2,413 mm)	95" (2,413 mm)
90 min.	OTHER THAN DOORS	$2,627 \text{ in}^2 / 18.24 \text{ ft}^2$ (1.69 m²)	56-1/2" (1,435 mm)	56-1/2" (1,435 mm)

Check with frame manufacturer for maximum tested glass sizes and required stop height. Note: Individual lite sizes cannot exceed "Max. Exposed Area" shown above.

FireLite

MAXIMUM SHEET SIZE

SURFACE FINISH Premium Standard Obscure

GENERAL CHARACTERISTICS

THICKNESS: 3/16" (5 mm) overall

WEIGHT: $2.56 \text{ lb} / \text{ft}^2 (12.5 \text{ kg} / \text{m}^2)$

APPROX. VISIBLE TRANSMISSION: 88%
APPROX. VISIBLE REFLECTION: 9%
HARDNESS (VICKER'S SCALE): 700

FIRE RATING: 20 to 90 minutes

IMPACT SAFETY RATING: None STC RATING: 35

LABELING

Each piece of FireLite shall be permanently labeled with the FireLite logo, UL logo and fire rating.

Detail based on use of Fireframes Designer Series d narrow profile framing Glazing Thickness: 3/16"-1"(5 mm - 25.4 mm) a. Frame width: 2" (51 mm) b. Frame height: 2-3/4" (70 mm) 3/4" (19 mm) **c**. Stop height: 1/2" - 1-1/4" d. Pocket width: (12.7 mm x 31.8 mm) e. Edge clearance: 1/4" (6.4 mm) f. Bite: 1/2" (12.7 mm)

INSTALLATION

FireLite shall be glazed into the appropriate fire-rated framing with an approved glazing compound (pure silicone, closed cell PVC tape or DAP 33 putty) as supplied by the installer. For 90 minute ratings that exceed 1,393 in² (.8987 m²) FireLite shall be glazed with fire-rated glazing tape as supplied by TGP.

Inspect each piece of FireLite immediately before installation and eliminate any with observable edge damage or face imperfections. As with any glass produced by the "roll out" method, individual pieces of FireLite may contain minimal variations in thickness. Occasionally, process marks and small occlusions or seeds (bubbles, knots or crystals) may be apparent. However, since they do not generally impair the transparency or affect the technical performance of the glass, they do not represent cause for rejection.

STORAGE & HANDLING

FireLite must be handled with care during transportation, storage, inspection and installation. Store in a dry place.

FAMILY OF PRODUCTS

TGP offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications. More information is available online at fireglass.com.

TEP TECHNICAL GLASS PRODUCTS



Fire-Rated, Impact Safety-Rated Glass Ceramic With Surface-Applied Film Fire-Rating: 20-180 Minutes

FireLite NT is a 3/16" (5 mm) thick fire-rated and impact safety-rated glazing material, composed of FireLite and fire-rated surface-applied film. It is listed for use in doors, sidelites, transoms and borrowed lites.

FEATURES

- ultraHD® Technology for improved surface quality, clarity and color
- Fire-rated for up to 180 minutes with required hose stream test
- Available in two surface grades: Premium and Standard
- Wireless glass ceramic with high performance surface-applied approved firerated film
- Impact safety-rated-meets ANSI Z97.1 and CPSC 16 CFR1201 (Cat. I and II)

- Fits in Fireframes® Designer Series from TGP, or standard fire-rated frames
- · Withstands thermal shock
- Large sizes available
- May be lightly sandblasted or etched on the unfilmed side without affecting fire rating
- Protects from fire and impact on both sides of the glass
- May be insulated (see FireLite IGU fact sheet)
- · 3-year limited warranty

BIM 3D Model Available

ULClassified & Labeled

Fire-Rated

Hose Stream Tested

Impact-Rated

Positive Pressure Tested

Note: This product is not a barrier to radiant heat, as it does not meet test standards ASTM E119 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact TGP regarding Pilkington Pyrostop®.

SURFACE GRADES

Standard Grade - Polished for a surface quality that is comparable to alternative fire-rated ceramics marketed as having a premium finish.

Premium Grade - Finish ground and polished on both surfaces to provide superior surface quality, improving overall clarity and providing a surface that is unmatched by alternative products.

LISTINGS/STANDARDS

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. Tests performed in accordance with:

UL9	NFPA 80	CAN4 S-104	MEA 290-90-M-6
UL 10B	NFPA 252	CAN4 S-106	LARR 25798
UL 10C	NFPA 257		

MAXIMUM EXPOSED AREA

RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING OF	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	DOORS (non-temp rise) DOORS (temp rise) OTHER THAN DOORS	3,204 in ² / 22.25 ft ² (2.07 m ²) 100 in ² / 0.69 ft ² (.06 m ²) 3,325 in ² / 23.09 ft ² (2.15 m ²)	36" (914 mm) 12" (304 mm) 95" (2,413 mm)	89" (2,260 mm) 33" (838 mm) 95" (2,413 mm)
90 min.	DOORS (non-temp rise) DOORS (temp rise) OTHER THAN DOORS	$2,034 \text{ in}^2 / 14.13 \text{ ft}^2 (1.31 \text{ m}^2)$ $100 \text{ in}^2 / 0.69 \text{ ft}^2 (.06 \text{ m}^2)$ $2,627 \text{ in}^2 / 18.24 \text{ ft}^2 (1.69 \text{ m}^2)$	36" (914 mm) 12" (304 mm) 56-1/2" (1,435 mm)	56-1/2" (1,435 mm) 33" (838 mm) 56-1/2" (1,435 mm)
180 min.	DOORS	100 in ² / 0.69 ft ² (.06 m ²)	12" (304 mm)	33" (838 mm)

Check with frame manufacturer for maximum tested glass sizes and required stop height. Note: Individual lite sizes cannot exceed "Max. Exposed Area" shown above.

MAXIMUM SHEET SIZE

 SURFACE FINISH
 Premium
 Standard
 Obscure

 48" x 96"
 48" x 96"
 36" x 96"

 (1.21 m x 2.43 m)
 (1.21 m x 2.43 m)
 (.91 m x 2.43 m)

GENERAL CHARACTERISTICS

THICKNESS: 3/16" (5 mm) overall

WEIGHT: $2.56 \text{ lb} / \text{ft}^2 (12.5 \text{ kg} / \text{m}^2)$

APPROX. VISIBLE TRANSMISSION: 88%
APPROX. VISIBLE REFLECTION: 9%
HARDNESS (VICKER'S SCALE): 700

FIRE RATING: 20 minutes to 3 hours

IMPACT SAFETY RATING: Meets ANSI Z97.1 and CPSC

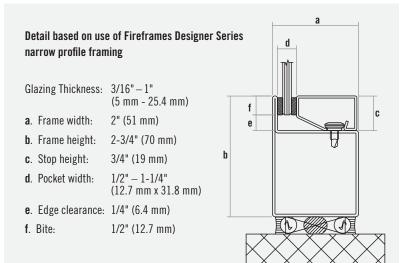
16FR1201 (Cat. I and II)

STC RATING: 35

LABELING

Each piece of FireLite NT shall be permanently labeled with the FireLite NT logo, UL logo and fire rating.

800.426.0279





INSTALLATION

FireLite NT shall be glazed into the appropriate fire-rated framing with an approved glazing compound (closed cell PVC tape or DAP 33 putty) as supplied by the installer. For 90 minute ratings that exceed 1,393 in² (.8987 m²), FireLite NT shall be glazed with fire-rated glazing tape as supplied by TGP.

Inspect each piece of FireLite NT immediately before installation and eliminate any with observable edge damage or face imperfections. As with any glass produced by the "roll out" method, individual pieces of FireLite NT may contain minimal variations in thickness. Occasionally, process marks and small occlusions or seeds (bubbles, knots or crystals) may be apparent. However, since they do not generally impair the transparency or affect the technical performance of the glass, they do not represent cause for rejection.

STORAGE & HANDLING

FireLiteNT must be handled with care during transportation, storage, inspection and installation. Store in a dry place.

FAMILY OF PRODUCTS

TGP offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications. More information is available online at fireglass.com, or by calling 800.426.0279.

Fireglass®20

Fire-rated, impact safety-rated glass

FireLite®

Fire-rated glass ceramic

FireLite® NT

Fire-rated, impact safety-rated glass ceramic with surface-applied film

FireLite Plus®

Fire-rated, impact safety-rated glass ceramic

FireLite® IGU

Fire-rated or fire/impact safety-rated insulated glass units

Pilkington Pyrostop®

Fire-rated, impact safety-rated transparent wall panels

WireLite®

Fire-rated, wired glass

WireLite® NT

Fire-rated, impact safety-rated wired glass with surface-applied film

Fireframes®

Fire-rated framing & doors for use with all TGP glass products





SECTION 08510 STEEL WINDOWS UL Labeled Fire-Rated Single Hung (925)

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Fire Rated Steel Windows (Single Hung) 60-Minute UL Labeled
- 1.2 RELATED SECTIONS
 - A. Section 08800 Glass, Glazing, and Glazing Materials
- 1.3 REFERENCES
 - A. ASTM A 569-(1991a; R 1993) Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quality
 - B. ASTM A 653-(1994) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - C. ASTM B 633-(1985; R 1994) Electrodeposited Coatings of Zinc on Iron and Steel
 - D. ASTM B 766-(1986; R 1993) Electrodeposited Coatings of Cadmium
 - E. ASTM E 283-(1991) Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specific Pressure Differences Across the Specimen
 - F. ASTM E 330-(1990) Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
 - G. ASTM E 547-(1993) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential
 - H. ASME B18.6.3- (1972; R 1991) Machine Screws and Machine Screw Nuts
 - I. ASME B18.6.4- (1981; R 1991) Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)
 - J. NFPA 80-(2007) Fire Doors and Windows
 - K. NFPA 101-(2006) Safety to Life from Fire in Buildings and Structures
 - L. UL9-Fire Tests of Window Assemblies
 - M. File No. R13157-D.V. Fyre-Tec Classification

- 1.4 PERFORMANCE REQUIREMENTS (Based on a single window in a testing lab environment)
 - A. Single Hung steel windows shall conform to the H-C30 voluntary specifications in AAMA/NWWDA 101/I.S.2-97 and be designed to meet the following performance requirements. Fire-rated windows shall bear the Underwriters Laboratories, Inc. label including the manufacturer's file number for the indicated rating.
 - 1. Structural Performance: Structural test pressures on window units shall be for positive load (inward) and negative load (outward) in accordance with ASTM E 330 at a static pressure of 45 PSF. After testing, there shall be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms or any other damage which could cause window to be inoperable. There shall be no permanent deformation of any main frame, sash or ventilator member in excess of the requirements established by AAMA/NWWDA 101/I.S.2-97 for the window types specified in this section.
 - 2. Air Infiltration: Air infiltration shall not exceed .3 SCFM per square foot of window area at a static air pressure difference of 1.57 PSF as established by AAMA/NWWDA 101/I.S.2-97 when tested in accordance with ASTM E 283.
 - 3. Water Resistance: When tested in accordance with ASTM E 547, there shall be no water leakage at a static air pressure difference of 4.50 PSF.
 - B. Fire Protective: Fire protective rating shall meet requirements as tested and classified by Underwriters Laboratories Inc, in accordance with UL-9. Products shall meet the requirements of Underwriters Laboratories Inc. The Listing Mark of UL on the product will be accepted as evidence of compliance.
 - C. Life Safety Criteria: Windows shall conform to NFPA 101 Life Safety Code when rescue and/or second means of escape are indicated.

1.5 SUBMITALS

- A. Manufacturer's descriptive data and catalog cut sheets.
- B. Drawings indicating elevations of windows, rough-opening dimensions for each type and size of windows, section details, fastenings, generic method of installation and anchorage, glazing details, method of glazing, muntin divider details, mullion details, weather-stripping details, types and locations of operating hardware, window type and indicating compliance with fire safety code, where required. Refer to Authority Having Jurisdiction for specific installation, wall detail, and anchorage requirements.
- C. Manufacturer's preprinted installation instructions and cleaning instructions.
- D. Manufacturer's standard color samples of painted finishes.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
- B. Manufacturer's Qualifications: A firm with not less than 10-years' experience in manufacture of similar type steel windows.

1.7 DELIVERY, STORAGE AND HANDLING

A. Delivery:

- 1. Manufacturer's original, unopened, undamaged containers, identification labels intact. Inspect for damage upon delivery.
- 2. Handle and store products according to manufacturer's recommendations.

B. Storage and Protection:

- Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended be manufacturer
- 2. Store windows to prevent damage or marring of finish. Store in shipping containers under cover on building site.

1.8 PROJECT CONDITIONS

- A. Verify actual openings by field measurements before fabrication, show recorded measurements on shop drawings.
- B. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.9 WARRANTY

A. Manufacturer's standard warranty to be 3 years from the date of shipping.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Series 925 Single Hung Windows as manufactured by D.V. Fyre-Tec, Inc.; 701 Centennial Road; Wayne, NE 68787; Tel: 1-800-377-3261; Fax; 1-402-375-4261; Web: www.fyre-tec.com; Email; info@fyre-tec.com.
- B. Architect approved equal.

2.2 STEEL WINDOW TYPES

- A. Single hung steel windows shall be designed for inside field glazing, and for glass types scheduled on drawings or otherwise specified. Units shall be complete with glass and glazing provisions to meet requirements of paragraph WINDOW PERFORMANCE. Glazing material shall be compatible with steel, and shall not require painting.
- B. Fire-rated windows shall conform to UL-9 and shall be labeled with a 1- hour fire-test rating as specified in the window schedule. Units shall be designed and fabricated to meet glass sizes, window sizes, and opening dimensions established by NFPA 80. Hardware shall conform to NFPA 80 requirements. All operable fire-rated windows are to be self-closing and latching by means of a heat activated fusible link operator.

2.3 MATERIALS

A. Steel Frames and Inserts

- Steel frames and inserts shall be fabricated from roll-formed galvanized lock-forming quality steel per ASTM A 653.
- 2. Frame and insert corners shall mitered and welded. Integral muntins where required shall be galvanized roll-formed material fitted and welded.

3. Operable insert/sash shall be supported on two adjustable heavy-duty spiral wound balances.

B. Installation Kits

- 1. Provide attachable fin installation kits for all windows.
- 2. Provide subframe installation kits for all windows.

C. Weather Stripping

1. Weather-stripping for the inserts shall be designed to meet water penetration and air infiltration requirements specified under paragraph WINDOW PERFORMANCE, and shall be manufactured of material compatible with steel and resistant to weather. Weather-strips shall be factory applied and easily replaced in the field.

D. Screens

1. Insect screens shall be steel window manufacturer's standard design, and shall be provided where scheduled on drawings. Insect screens shall be fabricated of roll formed galvanized steel frames and (18x16) plastic coated glass conforming fiber mesh screening conforming to ASTM D 3656.

E. Formed Component Parts

- 1. Formed component parts shall be hot-rolled sheet steel conforming to ASTM A 569, commercial quality with a minimum of 0.15 percent carbon.
- Sheet steel shall be zinc coated (galvanized) by the hot-dip process in accordance with ASTM A 653 or ASTM A 924.

F. Screws and Bolts

1. Screws and bolts shall conform to ASTM B 766, ASME B18.6.3 and ASME B18.6.4.

G. Fasteners

1. Fastening devices shall be window manufacturer's design made from cadmium-plated steel, zinc-plated steel, nickel/chrome-plated steel or magnetic stainless steel.

H. Window Anchors

1. Anchors for installing windows shall be stainless steel or hot-dip zinc coated steel conforming to ASTM A 123.

I. Glass and Glazing

- 1. Standard clear ceramic glass (1 hour rated)
- 2. Insulated glass units.

2.4 FABRICATION

- A. Fabricate windows in accordance with approved shop drawings.
- B. Frame sections shall be one-piece sections with corners mitered, welded and dressed smooth.
- C. Required muntins shall be securely welded to the frame members and at all intersections.

- D. All windows shall be designed for inside glazing.
- E. All windows shall be factory glazed with UL labeled glass meeting or exceeding the hourly rating required for the frame label. Individual lites shall display a UL label permanently affixed and in accordance with the requirements of the International Building Code and NFPA 80.
- 2.5 FINISHES All products will be provided with a paint coating.
 - A. Finish Coat Manufacturer's Standard Color (Iceberg White Iceberg White/Black)
 - 1. Steel windows, fins, mullions, cover plates and associated parts shall be cleaned, pretreated with iron phosphate and factory powder coated and cured with a manufacturer's standard color in a dry film thickness of not less than 0.050 mm (2.0 mil).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Window openings shall conform to details and dimensions shown on the approved shop drawings.
- B. Notify the Architect immediately of conditions that may adversely affect the window installation. Correct conditions prior to installing windows.

3.2 INSTALLATION

- A. Steel windows shall be installed in accordance with approved shop drawings and manufacturer's approved recommendations.
- B. Fire-rated windows shall be installed in compliance with NFPA 80 and NFPA 101.
- C. Steel surfaces in close proximity with masonry, concrete, wood, and dissimilar metals other than stainless steel, zinc, cadmium, or small areas of white bronze shall be protected from direct contact.
- D. Verify that weep features at the bottom of the sills are opened at least 1/8" x 1". Failure to do so may lead to premature finish failures and void warranty.
- E. The completed window installation shall be watertight.

3.3 ADJUSTING AND CLEANING

- A. Steel window finish and glass shall be cleaned on interior and exterior sides in accordance with window manufacturer's recommendation. Alkaline, abrasive or brick wash agents shall not be used.
- B. Operable sash shall be adjusted per manufacturer's instruction to provide minimal operating force.

3.4 PROTECTION

- A. Protect installed products and finished surfaces from damage during construction.
- B. Touch-up any abraded surface of the window finish with air dry paint furnished by the window manufacturer.

-- END OF SECTION --SPEC 925 1-2020



SECTION 08510 STEEL WINDOWS UL Labeled Fire-Rated Fixed Lite (950)

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Fire Rated Steel Windows (Fixed Lite) 60-Minute UL Labeled
- 1.2 RELATED SECTIONS
 - A. Section 08800 Glass, Glazing, and Glazing Materials
- 1.3 REFERENCES
 - A. ASTM A 569-(1991a; R 1993) Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quality
 - B. ASTM A 653-(1994) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - C. ASTM B 633-(1985; R 1994) Electrodeposited Coatings of Zinc on Iron and Steel
 - D. ASTM B 766-(1986; R 1993) Electrodeposited Coatings of Cadmium
 - E. ASTM E 283-(1991) Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specific Pressure Differences Across the Specimen
 - F. ASTM E 330-(1990) Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
 - G. ASTM E 547-(1993) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential
 - H. ASME B18.6.3- (1972; R 1991) Machine Screws and Machine Screw Nuts
 - I. ASME B18.6.4- (1981; R 1991) Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)
 - J. NFPA 80-(2007) Fire Doors and Windows
 - K. NFPA 101-(2006) Safety to Life from Fire in Buildings and Structures
 - L. UL9-Fire Tests of Window Assemblies
 - M. File No. R13157-D.V. Fyre-Tec Classification

- 1.4 PERFORMANCE REQUIREMENTS (Based on a single window in a testing lab environment)
 - A. Fixed lite steel windows shall be designed to meet F-C30 voluntary specifications in AAMA/NWWDA 101/I.S.2-97 and be designed to meet the following performance requirements. Fire-rated windows shall bear the Underwriters Laboratories, Inc. label including the manufacturer's file number for the indicated rating.
 - 1. Air Infiltration: Air infiltration shall not exceed .3 SCFM per square foot of window area at a static air pressure difference of 1.57 PSF as established by AAMA/NWWDA 101/I.S.2-97 when tested in accordance with ASTM E 283.
 - 2. Water Resistance: When tested in accordance with ASTM E 547, there shall be no water leakage at a static air pressure difference of 4.50 PSF.
 - B. Fire Protective: Fire protective rating shall meet requirements as tested and classified by Underwriters Laboratories Inc, in accordance with UL-9. Products shall meet the requirements of Underwriters Laboratories Inc. The Listing Mark of UL on the product will be accepted as evidence of compliance.
 - C. Life Safety Criteria: Windows shall conform to NFPA 101 Life Safety Code when rescue and/or second means of escape are indicated.

1.5 SUBMITALS

- A. Manufacturer's descriptive data and catalog cut sheets.
- B. Drawings indicating elevations of windows, rough-opening dimensions for each type and size of windows, section details, fastenings, generic method of installation and anchorage, glazing details, method of glazing, muntin divider details, mullion details, weather-stripping details, types and locations of operating hardware, window type and indicating compliance with fire safety code, where required. Refer to Authority Having Jurisdiction for specific installation, wall detail, and anchorage requirements.
- C. Manufacturer's preprinted installation instructions and cleaning instructions.
- D. Manufacturer's standard color samples of painted finishes.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
- B. Manufacturer's Qualifications: A firm with not less than 10-years' experience in manufacture of similar type steel windows.

1.7 DELIVERY, STORAGE AND HANDLING

A. Delivery:

- 1. Manufacturer's original, unopened, undamaged containers, identification labels intact. Inspect for damage upon delivery.
- 2. Handle and store products according to manufacturer's recommendations.

B. Storage and Protection:

1. Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended be manufacturer

2. Store windows to prevent damage or marring of finish. Store in shipping containers under cover on building site.

1.8 PROJECT CONDITIONS

- A. Verify actual openings by field measurements before fabrication, show recorded measurements on shop drawings.
- B. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.9 WARRANTY

A. Manufacturer's standard warranty to be 3 years from the date of shipping.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Series 950 Fixed Lite Windows as manufactured by D.V. Fyre-Tec, Inc.; 701 Centennial Road; Wayne, NE 68787; Tel: 1-800-377-3261; Fax; 1-402-375-4261; Web: www.fyre-tec.com; Email; info@fyre-tec.com.
- B. Architect approved equal.

2.2 STEEL WINDOW TYPES

- A. Fixed Lite steel windows shall be designed for inside field glazing, and for glass types scheduled on drawings or otherwise specified. Units shall be complete with glass and glazing provisions to meet requirements of paragraph WINDOW PERFORMANCE. Glazing material shall be compatible with steel, and shall not require painting.
- B. Fire-rated windows shall conform to UL-9 and shall be labeled with a 1- hour fire-test rating as specified in the window schedule. Units shall be designed and fabricated to meet glass sizes, window sizes, and opening dimensions established by NFPA 80. Hardware shall conform to NFPA 80 requirements. All operable fire-rated windows are to be self-closing and latching by means of a heat activated fusible link operator.

2.3 MATERIALS

A. Steel Frames and Inserts

- 1. Steel frames shall be fabricated from roll-formed galvanized lock-forming quality steel per ASTM A 653.
- 2. Frame corners shall mitered and welded. Integral muntins where required shall be galvanized roll-formed material fitted and welded.

B. Installation Kits

1. Provide attachable fin installation kits for all windows.

C. Formed Component Parts

- 1. Formed component parts shall be hot-rolled sheet steel conforming to ASTM A 569, commercial quality with a minimum of 0.15 percent carbon.
- 2. Sheet steel shall be zinc coated (galvanized) by the hot-dip process in accordance with ASTM A 653 or ASTM A 924.

- D. Screws and Bolts
 - 1. Screws and bolts shall conform to ASTM B 766, ASME B18.6.3 and ASME B18.6.4.

E. Fasteners

1. Fastening devices shall be window manufacturer's design made from, cadmium-plated steel, zinc-plated steel, nickel/chrome-plated steel or magnetic stainless steel.

F. Window Anchors

1. Anchors for installing windows shall be stainless steel or hot-dip zinc coated steel conforming to ASTM A 123.

G. Glass and Glazing

- 1. Standard clear ceramic glass (1 hour rated).
- 2. Safety filmed clear ceramic glass CPSC16CFR1201 Cat I & II (1- hour rated).
- 3. Insulated glass units.

2.4 FABRICATION

- A. Fabricate windows in accordance with approved shop drawings.
- B. Frame sections shall be one-piece sections with corners mitered, welded and dressed smooth.
- C. Required muntins shall be securely welded to the frame members and at all intersections.
- D. All windows shall be designed for inside glazing.
- E. All windows shall be factory glazed with UL labeled glass meeting or exceeding the hourly rating required for the frame label. Individual lites shall display a UL label permanently affixed and in accordance with the requirements of the International Building Code and NFPA 80.
- 2.5 FINISHES All products will be provided with a paint coating.
 - A. Finish Coat Manufacturer's Standard Color (Iceberg White Iceberg White/Black)
 - 1. Steel windows, fins, mullions, cover plates and associated parts shall be cleaned, pretreated with iron phosphate and factory powder coated and cured with a manufacturer's standard color in a dry film thickness of not less than 0.050 mm (2.0 mil).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Window openings shall conform to details and dimensions shown on the approved shop drawings.
- B. Notify the Architect immediately of conditions that may adversely affect the window installation. Correct conditions prior to installing windows.

3.2 INSTALLATION

A. Steel windows shall be installed in accordance with approved shop drawings and manufacturer's approved recommendations.

- B. Fire-rated windows shall be installed in compliance with NFPA 80 and NFPA 101.
- C. Steel surfaces in close proximity with masonry, concrete, wood, and dissimilar metals other than stainless steel, zinc, cadmium, or small areas of white bronze shall be protected from direct contact.
- D. Verify that weep features at the bottom of the sills are opened at least 1/8" x 1". Failure to do so may lead to premature finish failures and void warranty.
- E. The completed window installation shall be watertight.

3.3 ADJUSTING AND CLEANING

- A. Steel window finish and glass shall be cleaned on interior and exterior sides in accordance with window manufacturer's recommendation. Alkaline, abrasive or brick wash agents shall not be used.
- B. Operable sash shall be adjusted per manufacturer's instruction to provide minimal operating force.

3.4 PROTECTION

- A. Protect installed products and finished surfaces from damage during construction.
- B. Touch-up any abraded surface of the window finish with air dry paint furnished by the window manufacturer.

-- END OF SECTION --SPEC_950 1-2020



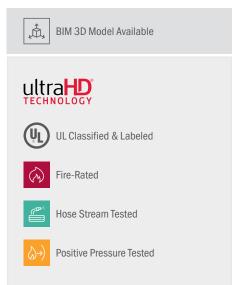
Fire-Rated Glass Ceramic Fire-Rating: 20-90 Minutes

FireLite is a 3/16" (5 mm) thick fire-rated glazing material. It is listed for use in non-impact safety-rated locations such as transoms and borrowed lites.

FEATURES

- ultraHD® Technology for improved surface quality, clarity and color
- Fire-rated for up to 90 minutes with required hose stream test
- · Clear and wireless glass ceramic
- Available in two surface grades: Premium and Standard
- Fits in Fireframes[®] Designer Series frames from TGP, or standard fire-rated frames

- · Withstands thermal shock
- · Large sizes available
- May be lightly sandblasted or etched on one side without affecting fire rating
- May be insulated (see FireLite IGU fact sheet)



Notes:

- 1. This product is not a barrier to radiant heat, as it does not meet test standards ASTM E119 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact TGP regarding Pilkington Pyrostop®.
- 2. FireLite is not an impact safety-rated product and should not be specified as such. However, TGP does offer FireLite Plus® and FireLite® NT which carry both fire and impact safety ratings. Please contact TGP for more details.

SURFACE GRADES

Standard Grade - Polished for a surface quality that is comparable to alternative fire-rated ceramics marketed as having a premium finish.

Premium Grade - Finish ground and polished on both surfaces to provide superior surface quality, improving overall clarity and providing a surface that is unmatched by alternative products.

LISTINGS/STANDARDS

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. Tests performed in accordance with:

UL9	NFPA 80	CAN4 S-104	MEA 290-90-M-6
UL 10B	NFPA 257	CAN4 S-106	LARR 25798
UL 10C			

MAXIMUM EXPOSED AREA

RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	OTHER THAN DOORS	3,325 in ² / 23.09 ft ² (2.15 m ²)	95" (2,413 mm)	95" (2,413 mm)
90 min.	OTHER THAN DOORS	$2,627 \text{ in}^2 / 18.24 \text{ ft}^2$ (1.69 m²)	56-1/2" (1,435 mm)	56-1/2" (1,435 mm)

Check with frame manufacturer for maximum tested glass sizes and required stop height. Note: Individual lite sizes cannot exceed "Max. Exposed Area" shown above.

FireLite

MAXIMUM SHEET SIZE

SURFACE FINISH Premium Standard Obscure

GENERAL CHARACTERISTICS

THICKNESS: 3/16" (5 mm) overall

WEIGHT: $2.56 \text{ lb} / \text{ft}^2 (12.5 \text{ kg} / \text{m}^2)$

APPROX. VISIBLE TRANSMISSION: 88%
APPROX. VISIBLE REFLECTION: 9%
HARDNESS (VICKER'S SCALE): 700

FIRE RATING: 20 to 90 minutes

IMPACT SAFETY RATING: None STC RATING: 35

LABELING

Each piece of FireLite shall be permanently labeled with the FireLite logo, UL logo and fire rating.

Detail based on use of Fireframes Designer Series d narrow profile framing Glazing Thickness: 3/16"-1"(5 mm - 25.4 mm) a. Frame width: 2" (51 mm) b. Frame height: 2-3/4" (70 mm) 3/4" (19 mm) **c**. Stop height: 1/2" - 1-1/4" d. Pocket width: (12.7 mm x 31.8 mm) e. Edge clearance: 1/4" (6.4 mm) f. Bite: 1/2" (12.7 mm)

INSTALLATION

FireLite shall be glazed into the appropriate fire-rated framing with an approved glazing compound (pure silicone, closed cell PVC tape or DAP 33 putty) as supplied by the installer. For 90 minute ratings that exceed 1,393 in² (.8987 m²) FireLite shall be glazed with fire-rated glazing tape as supplied by TGP.

Inspect each piece of FireLite immediately before installation and eliminate any with observable edge damage or face imperfections. As with any glass produced by the "roll out" method, individual pieces of FireLite may contain minimal variations in thickness. Occasionally, process marks and small occlusions or seeds (bubbles, knots or crystals) may be apparent. However, since they do not generally impair the transparency or affect the technical performance of the glass, they do not represent cause for rejection.

STORAGE & HANDLING

FireLite must be handled with care during transportation, storage, inspection and installation. Store in a dry place.

FAMILY OF PRODUCTS

TGP offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications. More information is available online at fireglass.com.

TEP TECHNICAL GLASS PRODUCTS



Fire-Rated, Impact Safety-Rated Glass Ceramic With Surface-Applied Film Fire-Rating: 20-180 Minutes

FireLite NT is a 3/16" (5 mm) thick fire-rated and impact safety-rated glazing material, composed of FireLite and fire-rated surface-applied film. It is listed for use in doors, sidelites, transoms and borrowed lites.

FEATURES

- ultraHD® Technology for improved surface quality, clarity and color
- Fire-rated for up to 180 minutes with required hose stream test
- Available in two surface grades: Premium and Standard
- Wireless glass ceramic with high performance surface-applied approved firerated film
- Impact safety-rated-meets ANSI Z97.1 and CPSC 16 CFR1201 (Cat. I and II)

- Fits in Fireframes® Designer Series from TGP, or standard fire-rated frames
- · Withstands thermal shock
- Large sizes available
- May be lightly sandblasted or etched on the unfilmed side without affecting fire rating
- Protects from fire and impact on both sides of the glass
- May be insulated (see FireLite IGU fact sheet)
- · 3-year limited warranty

BIM 3D Model Available

ULClassified & Labeled

Fire-Rated

Hose Stream Tested

Impact-Rated

Positive Pressure Tested

Note: This product is not a barrier to radiant heat, as it does not meet test standards ASTM E119 or UL 263. If your jurisdiction requires a "barrier to heat" product, please contact TGP regarding Pilkington Pyrostop®.

SURFACE GRADES

Standard Grade - Polished for a surface quality that is comparable to alternative fire-rated ceramics marketed as having a premium finish.

Premium Grade - Finish ground and polished on both surfaces to provide superior surface quality, improving overall clarity and providing a surface that is unmatched by alternative products.

LISTINGS/STANDARDS

Classified and labeled by Underwriters Laboratories, Inc.® and Underwriters Laboratories of Canada. File number for labeled fire-rated assemblies is R13377. Tests performed in accordance with:

UL9	NFPA 80	CAN4 S-104	MEA 290-90-M-6
UL 10B	NFPA 252	CAN4 S-106	LARR 25798
UL 10C	NFPA 257		

MAXIMUM EXPOSED AREA

RATING	ASSEMBLY	MAX. EXPOSED AREA	MAX. WIDTH OF EXPOSED GLAZING OF	MAX. HEIGHT OF EXPOSED GLAZING
20 to 60 min.	DOORS (non-temp rise) DOORS (temp rise) OTHER THAN DOORS	3,204 in ² / 22.25 ft ² (2.07 m ²) 100 in ² / 0.69 ft ² (.06 m ²) 3,325 in ² / 23.09 ft ² (2.15 m ²)	36" (914 mm) 12" (304 mm) 95" (2,413 mm)	89" (2,260 mm) 33" (838 mm) 95" (2,413 mm)
90 min.	DOORS (non-temp rise) DOORS (temp rise) OTHER THAN DOORS	$2,034 \text{ in}^2 / 14.13 \text{ ft}^2 (1.31 \text{ m}^2)$ $100 \text{ in}^2 / 0.69 \text{ ft}^2 (.06 \text{ m}^2)$ $2,627 \text{ in}^2 / 18.24 \text{ ft}^2 (1.69 \text{ m}^2)$	36" (914 mm) 12" (304 mm) 56-1/2" (1,435 mm)	56-1/2" (1,435 mm) 33" (838 mm) 56-1/2" (1,435 mm)
180 min.	DOORS	100 in ² / 0.69 ft ² (.06 m ²)	12" (304 mm)	33" (838 mm)

Check with frame manufacturer for maximum tested glass sizes and required stop height. Note: Individual lite sizes cannot exceed "Max. Exposed Area" shown above.

MAXIMUM SHEET SIZE

 SURFACE FINISH
 Premium
 Standard
 Obscure

 48" x 96"
 48" x 96"
 36" x 96"

 (1.21 m x 2.43 m)
 (1.21 m x 2.43 m)
 (.91 m x 2.43 m)

GENERAL CHARACTERISTICS

THICKNESS: 3/16" (5 mm) overall

WEIGHT: $2.56 \text{ lb} / \text{ft}^2 (12.5 \text{ kg} / \text{m}^2)$

APPROX. VISIBLE TRANSMISSION: 88%
APPROX. VISIBLE REFLECTION: 9%
HARDNESS (VICKER'S SCALE): 700

FIRE RATING: 20 minutes to 3 hours

IMPACT SAFETY RATING: Meets ANSI Z97.1 and CPSC

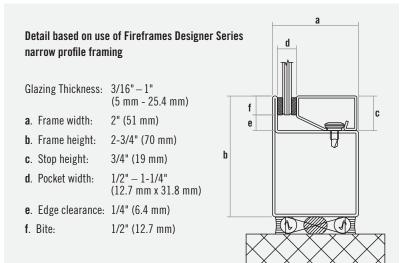
16FR1201 (Cat. I and II)

STC RATING: 35

LABELING

Each piece of FireLite NT shall be permanently labeled with the FireLite NT logo, UL logo and fire rating.

800.426.0279





INSTALLATION

FireLite NT shall be glazed into the appropriate fire-rated framing with an approved glazing compound (closed cell PVC tape or DAP 33 putty) as supplied by the installer. For 90 minute ratings that exceed 1,393 in² (.8987 m²), FireLite NT shall be glazed with fire-rated glazing tape as supplied by TGP.

Inspect each piece of FireLite NT immediately before installation and eliminate any with observable edge damage or face imperfections. As with any glass produced by the "roll out" method, individual pieces of FireLite NT may contain minimal variations in thickness. Occasionally, process marks and small occlusions or seeds (bubbles, knots or crystals) may be apparent. However, since they do not generally impair the transparency or affect the technical performance of the glass, they do not represent cause for rejection.

STORAGE & HANDLING

FireLiteNT must be handled with care during transportation, storage, inspection and installation. Store in a dry place.

FAMILY OF PRODUCTS

TGP offers a complete family of products for all your fire-rated glazing needs, ranging from 20 minute to 3 hour applications. More information is available online at fireglass.com, or by calling 800.426.0279.

Fireglass®20

Fire-rated, impact safety-rated glass

FireLite®

Fire-rated glass ceramic

FireLite® NT

Fire-rated, impact safety-rated glass ceramic with surface-applied film

FireLite Plus®

Fire-rated, impact safety-rated glass ceramic

FireLite® IGU

Fire-rated or fire/impact safety-rated insulated glass units

Pilkington Pyrostop®

Fire-rated, impact safety-rated transparent wall panels

WireLite®

Fire-rated, wired glass

WireLite® NT

Fire-rated, impact safety-rated wired glass with surface-applied film

Fireframes®

Fire-rated framing & doors for use with all TGP glass products





SECTION 08510 STEEL WINDOWS UL Labeled Fire-Rated Single Hung (925)

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Fire Rated Steel Windows (Single Hung) 60-Minute UL Labeled
- 1.2 RELATED SECTIONS
 - A. Section 08800 Glass, Glazing, and Glazing Materials
- 1.3 REFERENCES
 - A. ASTM A 569-(1991a; R 1993) Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quality
 - B. ASTM A 653-(1994) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - C. ASTM B 633-(1985; R 1994) Electrodeposited Coatings of Zinc on Iron and Steel
 - D. ASTM B 766-(1986; R 1993) Electrodeposited Coatings of Cadmium
 - E. ASTM E 283-(1991) Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specific Pressure Differences Across the Specimen
 - F. ASTM E 330-(1990) Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
 - G. ASTM E 547-(1993) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential
 - H. ASME B18.6.3- (1972; R 1991) Machine Screws and Machine Screw Nuts
 - I. ASME B18.6.4- (1981; R 1991) Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)
 - J. NFPA 80-(2007) Fire Doors and Windows
 - K. NFPA 101-(2006) Safety to Life from Fire in Buildings and Structures
 - L. UL9-Fire Tests of Window Assemblies
 - M. File No. R13157-D.V. Fyre-Tec Classification

- 1.4 PERFORMANCE REQUIREMENTS (Based on a single window in a testing lab environment)
 - A. Single Hung steel windows shall conform to the H-C30 voluntary specifications in AAMA/NWWDA 101/I.S.2-97 and be designed to meet the following performance requirements. Fire-rated windows shall bear the Underwriters Laboratories, Inc. label including the manufacturer's file number for the indicated rating.
 - 1. Structural Performance: Structural test pressures on window units shall be for positive load (inward) and negative load (outward) in accordance with ASTM E 330 at a static pressure of 45 PSF. After testing, there shall be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms or any other damage which could cause window to be inoperable. There shall be no permanent deformation of any main frame, sash or ventilator member in excess of the requirements established by AAMA/NWWDA 101/I.S.2-97 for the window types specified in this section.
 - 2. Air Infiltration: Air infiltration shall not exceed .3 SCFM per square foot of window area at a static air pressure difference of 1.57 PSF as established by AAMA/NWWDA 101/I.S.2-97 when tested in accordance with ASTM E 283.
 - 3. Water Resistance: When tested in accordance with ASTM E 547, there shall be no water leakage at a static air pressure difference of 4.50 PSF.
 - B. Fire Protective: Fire protective rating shall meet requirements as tested and classified by Underwriters Laboratories Inc, in accordance with UL-9. Products shall meet the requirements of Underwriters Laboratories Inc. The Listing Mark of UL on the product will be accepted as evidence of compliance.
 - C. Life Safety Criteria: Windows shall conform to NFPA 101 Life Safety Code when rescue and/or second means of escape are indicated.

1.5 SUBMITALS

- A. Manufacturer's descriptive data and catalog cut sheets.
- B. Drawings indicating elevations of windows, rough-opening dimensions for each type and size of windows, section details, fastenings, generic method of installation and anchorage, glazing details, method of glazing, muntin divider details, mullion details, weather-stripping details, types and locations of operating hardware, window type and indicating compliance with fire safety code, where required. Refer to Authority Having Jurisdiction for specific installation, wall detail, and anchorage requirements.
- C. Manufacturer's preprinted installation instructions and cleaning instructions.
- D. Manufacturer's standard color samples of painted finishes.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
- B. Manufacturer's Qualifications: A firm with not less than 10-years' experience in manufacture of similar type steel windows.

1.7 DELIVERY, STORAGE AND HANDLING

A. Delivery:

- 1. Manufacturer's original, unopened, undamaged containers, identification labels intact. Inspect for damage upon delivery.
- 2. Handle and store products according to manufacturer's recommendations.

B. Storage and Protection:

- Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended be manufacturer
- 2. Store windows to prevent damage or marring of finish. Store in shipping containers under cover on building site.

1.8 PROJECT CONDITIONS

- A. Verify actual openings by field measurements before fabrication, show recorded measurements on shop drawings.
- B. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.9 WARRANTY

A. Manufacturer's standard warranty to be 3 years from the date of shipping.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Series 925 Single Hung Windows as manufactured by D.V. Fyre-Tec, Inc.; 701 Centennial Road; Wayne, NE 68787; Tel: 1-800-377-3261; Fax; 1-402-375-4261; Web: www.fyre-tec.com; Email; info@fyre-tec.com.
- B. Architect approved equal.

2.2 STEEL WINDOW TYPES

- A. Single hung steel windows shall be designed for inside field glazing, and for glass types scheduled on drawings or otherwise specified. Units shall be complete with glass and glazing provisions to meet requirements of paragraph WINDOW PERFORMANCE. Glazing material shall be compatible with steel, and shall not require painting.
- B. Fire-rated windows shall conform to UL-9 and shall be labeled with a 1- hour fire-test rating as specified in the window schedule. Units shall be designed and fabricated to meet glass sizes, window sizes, and opening dimensions established by NFPA 80. Hardware shall conform to NFPA 80 requirements. All operable fire-rated windows are to be self-closing and latching by means of a heat activated fusible link operator.

2.3 MATERIALS

A. Steel Frames and Inserts

- Steel frames and inserts shall be fabricated from roll-formed galvanized lock-forming quality steel per ASTM A 653.
- 2. Frame and insert corners shall mitered and welded. Integral muntins where required shall be galvanized roll-formed material fitted and welded.

3. Operable insert/sash shall be supported on two adjustable heavy-duty spiral wound balances.

B. Installation Kits

- 1. Provide attachable fin installation kits for all windows.
- 2. Provide subframe installation kits for all windows.

C. Weather Stripping

 Weather-stripping for the inserts shall be designed to meet water penetration and air infiltration requirements specified under paragraph WINDOW PERFORMANCE, and shall be manufactured of material compatible with steel and resistant to weather. Weather-strips shall be factory applied and easily replaced in the field.

D. Screens

1. Insect screens shall be steel window manufacturer's standard design, and shall be provided where scheduled on drawings. Insect screens shall be fabricated of roll formed galvanized steel frames and (18x16) plastic coated glass conforming fiber mesh screening conforming to ASTM D 3656.

E. Formed Component Parts

- 1. Formed component parts shall be hot-rolled sheet steel conforming to ASTM A 569, commercial quality with a minimum of 0.15 percent carbon.
- Sheet steel shall be zinc coated (galvanized) by the hot-dip process in accordance with ASTM A 653 or ASTM A 924.

F. Screws and Bolts

1. Screws and bolts shall conform to ASTM B 766, ASME B18.6.3 and ASME B18.6.4.

G. Fasteners

1. Fastening devices shall be window manufacturer's design made from cadmium-plated steel, zinc-plated steel, nickel/chrome-plated steel or magnetic stainless steel.

H. Window Anchors

1. Anchors for installing windows shall be stainless steel or hot-dip zinc coated steel conforming to ASTM A 123.

I. Glass and Glazing

- 1. Standard clear ceramic glass (1 hour rated)
- 2. Insulated glass units.

2.4 FABRICATION

- A. Fabricate windows in accordance with approved shop drawings.
- B. Frame sections shall be one-piece sections with corners mitered, welded and dressed smooth.
- C. Required muntins shall be securely welded to the frame members and at all intersections.

- D. All windows shall be designed for inside glazing.
- E. All windows shall be factory glazed with UL labeled glass meeting or exceeding the hourly rating required for the frame label. Individual lites shall display a UL label permanently affixed and in accordance with the requirements of the International Building Code and NFPA 80.
- 2.5 FINISHES All products will be provided with a paint coating.
 - A. Finish Coat Manufacturer's Standard Color (Iceberg White Iceberg White/Black)
 - 1. Steel windows, fins, mullions, cover plates and associated parts shall be cleaned, pretreated with iron phosphate and factory powder coated and cured with a manufacturer's standard color in a dry film thickness of not less than 0.050 mm (2.0 mil).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Window openings shall conform to details and dimensions shown on the approved shop drawings.
- B. Notify the Architect immediately of conditions that may adversely affect the window installation. Correct conditions prior to installing windows.

3.2 INSTALLATION

- A. Steel windows shall be installed in accordance with approved shop drawings and manufacturer's approved recommendations.
- B. Fire-rated windows shall be installed in compliance with NFPA 80 and NFPA 101.
- C. Steel surfaces in close proximity with masonry, concrete, wood, and dissimilar metals other than stainless steel, zinc, cadmium, or small areas of white bronze shall be protected from direct contact.
- D. Verify that weep features at the bottom of the sills are opened at least 1/8" x 1". Failure to do so may lead to premature finish failures and void warranty.
- E. The completed window installation shall be watertight.

3.3 ADJUSTING AND CLEANING

- A. Steel window finish and glass shall be cleaned on interior and exterior sides in accordance with window manufacturer's recommendation. Alkaline, abrasive or brick wash agents shall not be used.
- B. Operable sash shall be adjusted per manufacturer's instruction to provide minimal operating force.

3.4 PROTECTION

- A. Protect installed products and finished surfaces from damage during construction.
- B. Touch-up any abraded surface of the window finish with air dry paint furnished by the window manufacturer.

-- END OF SECTION --SPEC 925 1-2020



SECTION 08510 STEEL WINDOWS UL Labeled Fire-Rated Fixed Lite (950)

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Fire Rated Steel Windows (Fixed Lite) 60-Minute UL Labeled
- 1.2 RELATED SECTIONS
 - A. Section 08800 Glass, Glazing, and Glazing Materials
- 1.3 REFERENCES
 - A. ASTM A 569-(1991a; R 1993) Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quality
 - B. ASTM A 653-(1994) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
 - C. ASTM B 633-(1985; R 1994) Electrodeposited Coatings of Zinc on Iron and Steel
 - D. ASTM B 766-(1986; R 1993) Electrodeposited Coatings of Cadmium
 - E. ASTM E 283-(1991) Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specific Pressure Differences Across the Specimen
 - F. ASTM E 330-(1990) Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
 - G. ASTM E 547-(1993) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential
 - H. ASME B18.6.3- (1972; R 1991) Machine Screws and Machine Screw Nuts
 - I. ASME B18.6.4- (1981; R 1991) Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)
 - J. NFPA 80-(2007) Fire Doors and Windows
 - K. NFPA 101-(2006) Safety to Life from Fire in Buildings and Structures
 - L. UL9-Fire Tests of Window Assemblies
 - M. File No. R13157-D.V. Fyre-Tec Classification

- 1.4 PERFORMANCE REQUIREMENTS (Based on a single window in a testing lab environment)
 - A. Fixed lite steel windows shall be designed to meet F-C30 voluntary specifications in AAMA/NWWDA 101/I.S.2-97 and be designed to meet the following performance requirements. Fire-rated windows shall bear the Underwriters Laboratories, Inc. label including the manufacturer's file number for the indicated rating.
 - 1. Air Infiltration: Air infiltration shall not exceed .3 SCFM per square foot of window area at a static air pressure difference of 1.57 PSF as established by AAMA/NWWDA 101/I.S.2-97 when tested in accordance with ASTM E 283.
 - 2. Water Resistance: When tested in accordance with ASTM E 547, there shall be no water leakage at a static air pressure difference of 4.50 PSF.
 - B. Fire Protective: Fire protective rating shall meet requirements as tested and classified by Underwriters Laboratories Inc, in accordance with UL-9. Products shall meet the requirements of Underwriters Laboratories Inc. The Listing Mark of UL on the product will be accepted as evidence of compliance.
 - C. Life Safety Criteria: Windows shall conform to NFPA 101 Life Safety Code when rescue and/or second means of escape are indicated.

1.5 SUBMITALS

- A. Manufacturer's descriptive data and catalog cut sheets.
- B. Drawings indicating elevations of windows, rough-opening dimensions for each type and size of windows, section details, fastenings, generic method of installation and anchorage, glazing details, method of glazing, muntin divider details, mullion details, weather-stripping details, types and locations of operating hardware, window type and indicating compliance with fire safety code, where required. Refer to Authority Having Jurisdiction for specific installation, wall detail, and anchorage requirements.
- C. Manufacturer's preprinted installation instructions and cleaning instructions.
- D. Manufacturer's standard color samples of painted finishes.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
- B. Manufacturer's Qualifications: A firm with not less than 10-years' experience in manufacture of similar type steel windows.

1.7 DELIVERY, STORAGE AND HANDLING

A. Delivery:

- 1. Manufacturer's original, unopened, undamaged containers, identification labels intact. Inspect for damage upon delivery.
- 2. Handle and store products according to manufacturer's recommendations.

B. Storage and Protection:

1. Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended be manufacturer

2. Store windows to prevent damage or marring of finish. Store in shipping containers under cover on building site.

1.8 PROJECT CONDITIONS

- A. Verify actual openings by field measurements before fabrication, show recorded measurements on shop drawings.
- B. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.9 WARRANTY

A. Manufacturer's standard warranty to be 3 years from the date of shipping.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Series 950 Fixed Lite Windows as manufactured by D.V. Fyre-Tec, Inc.; 701 Centennial Road; Wayne, NE 68787; Tel: 1-800-377-3261; Fax; 1-402-375-4261; Web: www.fyre-tec.com; Email; info@fyre-tec.com.
- B. Architect approved equal.

2.2 STEEL WINDOW TYPES

- A. Fixed Lite steel windows shall be designed for inside field glazing, and for glass types scheduled on drawings or otherwise specified. Units shall be complete with glass and glazing provisions to meet requirements of paragraph WINDOW PERFORMANCE. Glazing material shall be compatible with steel, and shall not require painting.
- B. Fire-rated windows shall conform to UL-9 and shall be labeled with a 1- hour fire-test rating as specified in the window schedule. Units shall be designed and fabricated to meet glass sizes, window sizes, and opening dimensions established by NFPA 80. Hardware shall conform to NFPA 80 requirements. All operable fire-rated windows are to be self-closing and latching by means of a heat activated fusible link operator.

2.3 MATERIALS

A. Steel Frames and Inserts

- 1. Steel frames shall be fabricated from roll-formed galvanized lock-forming quality steel per ASTM A 653.
- 2. Frame corners shall mitered and welded. Integral muntins where required shall be galvanized roll-formed material fitted and welded.

B. Installation Kits

1. Provide attachable fin installation kits for all windows.

C. Formed Component Parts

- 1. Formed component parts shall be hot-rolled sheet steel conforming to ASTM A 569, commercial quality with a minimum of 0.15 percent carbon.
- 2. Sheet steel shall be zinc coated (galvanized) by the hot-dip process in accordance with ASTM A 653 or ASTM A 924.

- D. Screws and Bolts
 - 1. Screws and bolts shall conform to ASTM B 766, ASME B18.6.3 and ASME B18.6.4.

E. Fasteners

1. Fastening devices shall be window manufacturer's design made from, cadmium-plated steel, zinc-plated steel, nickel/chrome-plated steel or magnetic stainless steel.

F. Window Anchors

1. Anchors for installing windows shall be stainless steel or hot-dip zinc coated steel conforming to ASTM A 123.

G. Glass and Glazing

- 1. Standard clear ceramic glass (1 hour rated).
- 2. Safety filmed clear ceramic glass CPSC16CFR1201 Cat I & II (1- hour rated).
- 3. Insulated glass units.

2.4 FABRICATION

- A. Fabricate windows in accordance with approved shop drawings.
- B. Frame sections shall be one-piece sections with corners mitered, welded and dressed smooth.
- C. Required muntins shall be securely welded to the frame members and at all intersections.
- D. All windows shall be designed for inside glazing.
- E. All windows shall be factory glazed with UL labeled glass meeting or exceeding the hourly rating required for the frame label. Individual lites shall display a UL label permanently affixed and in accordance with the requirements of the International Building Code and NFPA 80.
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PART 3 EXECUTION

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-- END OF SECTION --SPEC_950 1-2020