NEW 3 STORY ATTACHED SINGLE FAMILY DWELLING

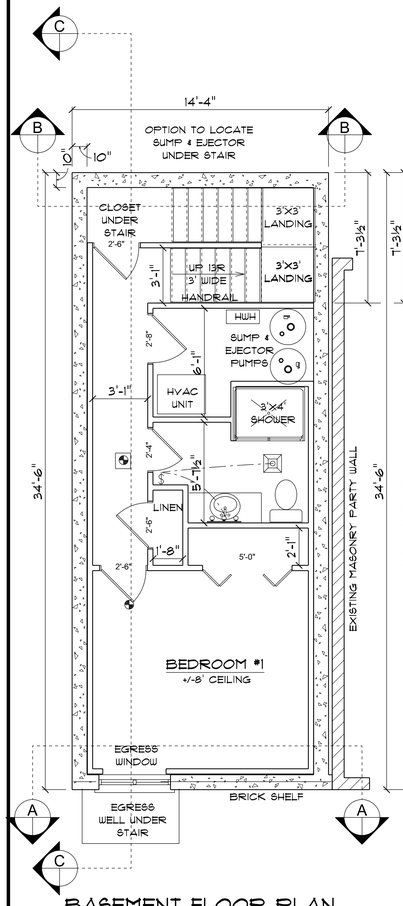
1810 N. MARSTON STREET, PHILADELPHIA PA

SMOKE ALARM

COMBINATION CO/SMOKE ALARM

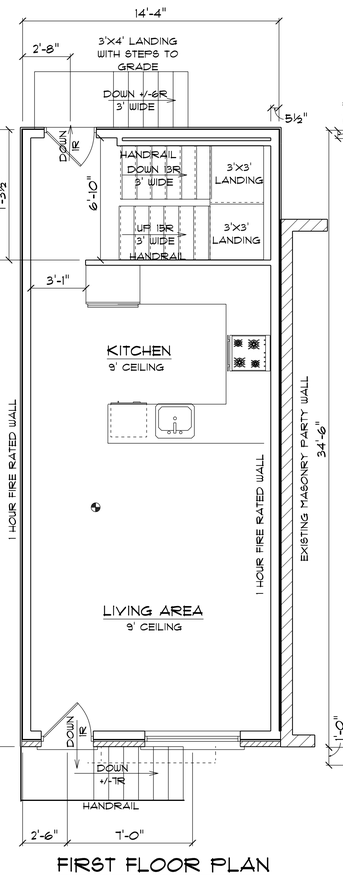
50 CFM EXHAUST FAN

PROVIDE SWITCHED LIGHT IN ALL BATHS



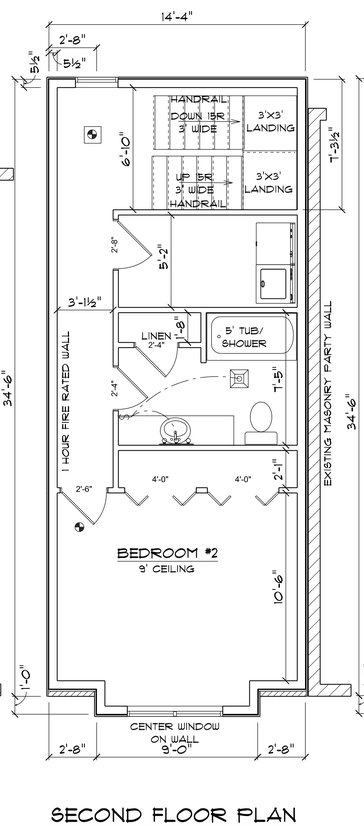
BASEMENT FLOOR PLAN

1/4" = 1' - 0"



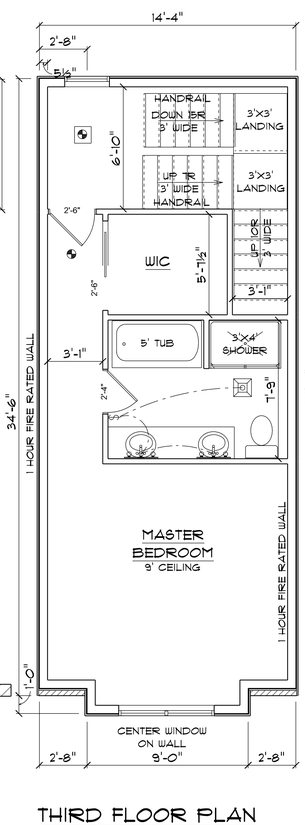
FIRST FLOOR PLAN

1/4" = 1' - 0"



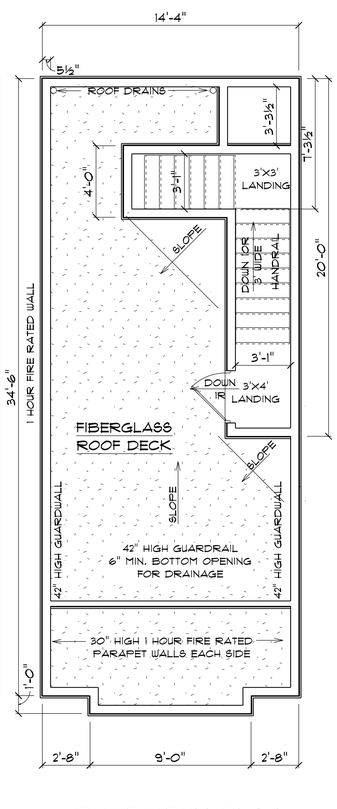
SECOND FLOOR PLAN

1/4" = 1' - 0"



THIRD FLOOR PLAN

1/4" = 1' - 0"



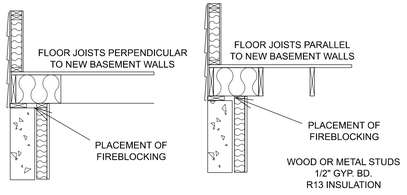
ROOF DECK PLAN

1/4" = 1' - 0"

SPECIFICATION

FOLLOW IRC 2015 CODE REQUIREMENTS

1. GENERAL NOTE Field verify existing conditions to include foundation, walls, joists, steps, windows, and all heights. Contact this office with any modifications, alterations or deviations from these plans. Intent is to build a new three story single family dwelling unit on the existing vacant lot.
2. DEMOLITION None required.
3. EXCAVATION Contact PA One Call prior to any excavation. Excavate to a depth of +/-8' below grade and undisturbed soil. Verify existing foundation length and depth along left side existing two story rowhome. Contact this office for any foundation modifications required.
4. FOUNDATION Install concrete footings with four #4 rebar on chairs. Use 3,000psi min. Install new 10" poured concrete walls with # 4 horizontal reinforcing at 12" from top of wall and same at remaining third points. Install #6 rebar at 31" oc for 9' concrete walls with 8' maximum unbalanced back fill per table R404.1.2(4) or no vertical reinforcing if unbalance back fill is 7' or less. Install ½"x12" HDG anchor bolts, two per plate with 7" minimum embedment at 60"oc maximum and 12" from all corners. Install interior perforated perimeter drain to sump pit with sealed lid and/or separate 4" radon pipe with stub in the floor for future fan and venting. Install exterior 4" perimeter foundation drain in stone with geo-tech fabric and sleeve thru footing to sump pit. Install waterproofing on exterior walls selected by owners(Rubber-wall, Mar-flex 5000 or approved equal. Install 4" stone with 6 mil vapor barrier and 6" lap joints on 3.5" concrete slab for basement floor. Install new concrete footings and foundati
on for front and rear exterior concrete steps and landings.
5. FRAMING All lumber shall be #2 grade or better hem-fir. Install 2x6 pressure treated plates with sill seal for new walls. All fasteners or connectors in contact with the new ACQ pressure treated lumber shall be Simpson Zmax or HDG as specified in ASTM A-153 class D specifications for the increased corrosive properties of the new lumber. Install 3x4 exterior walls on first floor, 2x4 exterior walls on second and third floor, 2x4 interior walls, joists and rafters at 16" oc. Glue and nail 3/4" CDX or OSB floor sheathing. Install 7/16" wall sheathing and 7/16" fire resistant roof sheathing. Install Simpson H2.5A hurricane clips. All headers shall be 2x10 with 1/2" CDX plywood and double jack studs on openings greater than 71" wide. Provide all soffits and chases for new utilities and ductwork. All joists and rafters shall have 1-1/2" minimum bearing. All headers and beams over 71" shall have double 2x4 jack studs with blocking down to masonry foundation. All wood shall be 8" minimum from any earth. Double a
ll floor joists at walls above. Posts may be composed of multiply studs and blocking down to foundation. Center all doors and windows as shown on plans. Notch rim joist for all point load columns. Provide fire caulk at all floor and ceiling penetrations in framing and holes through returns. A UL listed fire rated caulk shall be used. Provide fire stops and blocking as required by code. Follow continuous sheathing method in accordance with section R602.10 of the IRC 2006. Use only 2.0E – 3,100 Fb LVL, Microlam or Versalam beams - parallams or gluelams are not acceptable.
6. WINDOWS Install new vinyl windows with Low-E glass as mfg by Simonton or approved equal. Install tempered safety glass on all windows over tubs or in stairways. Windows greater than 9sf and less than 18" from floor shall be tempered or within 24" of any door swing. Maintain 24" sill height AFF on any window with more than 71" drop to grade or surface outside.
7. DOORS Install new 6 panel hollow core pre-finished interior doors with necessary hardware centered on walls or at corners as shown. Install new insulated exterior doors to be mfg by Thermatru with 0.35 maximum U-factor. Install tempered safety glass shower doors.
8. ROOFING Install fiberglass decking with necessary flashing at parapet walls and pilot house. Per mfg specifications to rear scupper drainge. Provide necessary blind flashings and aluminum capping on all walls. Provide a minimum of 2 roof drains to storm system from all roof areas.
9. EXTERIOR FINISHES Install vinyl siding per 2015 IRC section 703.6. Owners to select all colors and styles. Provide brick veneer over split face block or limestone with necessary flashing, weep holes and attachments.
10. ELECTRICAL Provide all electrical in accordance with the IRC 2015 and local codes. Include outlets at 12' oc max and 15" from floor. All decorative lighting is provided by owners. Provide interconnected battery backup hardwired smoke detectors in each bedroom, 3rd floor hall, 2nd floor hall and first floor hall and basement. Install 50cfm exhaust fans in bath with venting per code and mfg specifications ducted thru wall or roof but not into soffits. Install all electric required for HVAC equipment, washer, dryer, hot water heater and kitchen appliances. Provide a minimum of two circuits in kitchen with dedicated circuit for refrigerator and garbage disposal. All kitchen, laundry, exterior and bath circuits shall be GFCI protected. Recessed lighting in attics or in contact with insulation shall meet ASTM 283E for air tightness. Provide exterior rated outdoor receptacles within 25' of any exterior mechanical equipment. Per section N1104.1 of the IRC 2009 a
minimum of 75% of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps. Install all tamperproof outlets. Install switch and vanity light along with 50 CFM minimum exhaust fans in all baths that do not have a window.
11. PLUMBING Install Schedule 40 PVC waste lines and PEX supply lines. Follow Philadelphia plumbing code. Provide exterior hose bibs per owne'rs locations. Install washer pan. Connect rain gutters and downspouts to the existing storm water system located in the street.
12. HVAC Install new system for entire house with a 8.7 minimum HSPF or gas furnace with a 90 AFUE. All mastic tapes used on any duct connection shall be UL 181 listed and no standard duct tape shall be acceptable. Install 4" minimum dryer venting to exterior with 26 gage round metal duct terminated thru exterior wall with a minimum of three screws per connection and penetration of less than 1/8" accordance with section M1502 of the IRC 2015 vented thru exterior side wall. Provide metal fire stops at all floors and ceiling for flues and b-vents. All flexible gas piping shall be installed in strict conformance with the manufacturer's specifications and have mfg's recommended accessories(i.e. nail plates, termination outlets, etc). Provide programmable thermostat with readings set for final inspection
13. RESIDENTIAL SPRINKLER SYSTEM Provide installation of residential 13D sprinkler system in accordance with NFPA 72.
14. INSULATION Provide R49 fiberglass insulation orR38 insulation in flat ceilings with R11 rigid foam on roof, R20 on exterior walls and R10 or R13 on basement walls. Follow 2018 IECC table R402.1.2.
15. INTERIOR FINISHES Provide 1/2" gypsum board on all walls and ceilings. Install 5/8" Type X gypsum board on all side walls. Tape and spackle to smooth finish. Provide moisture resistant gypsum board in bath areas but not behind tubs or showers. Provide cement board behind showers or tubs for tile per section R 72.4.2 of the IRC 2015.
16. TRIM Provided by owners.
17. STAIRWAYS Handrails shall be continuous with returns. Install new pine or oak stairway to second and third floors and basement in accordance with section R311.7 of the IRC 2015 code to include continuous handrails with returns and 36" high guardrails.
18. PAINTING Apply prime coat and two finish coats using MAB or approved equal.
19. FLOORING Provided by owner.
20. KITCHEN Install new cabinets, countertops and appliances provided by owners.
21. MISCELLANEOUS Relocate any utilities as necessary.
22. CLEAN-UP Remove all construction debris.

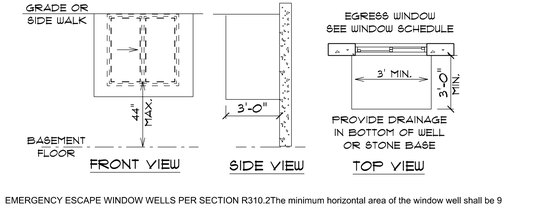


FIREBLOCKING DETAILS

Install firestops on all perimeter walls with 3/4" CDX plywood and approved fire caulk. Fireblock at the top plate to the existing foundation wall using 2x lumber, 1/2" gyp. bd., mineral wool or fiberglass insulation (must be tight fitting and resistant to replace), 3/4" CDX plywood or non-combustible caulk. All soffits, drops and furrings, concealed spaces, pipes and ducts shall be fireblocked.

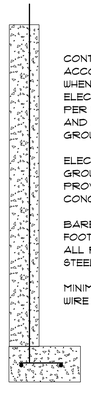
Fireblocking can consist of 2" nominal lumber , two layers of 1" nominal lumber with lap joints, one layer of 3/4" plywood, with joints backed by 3/4" plywood, 3/4" particle board, 1/2" gypsum board or 1/4" cement based mill board, batt or blankets of unfaced glass fiber or mineral wool securely retained in place.

Mineral wool or glass fiber shall be permitted for compliance with the 10' horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs.



EMERGENCY ESCAPE WINDOW WELLS PER SECTION R310.2The minimum horizontal area of the window well shall be 9 square feet, with a minimum horizontal projection and width of 36 inches. The area of the window well shall allow the emergency escape and rescue opening to be fully opened.
Exception: The ladder or steps required by Section R310.2.1 shall be permitted to encroach a maximum of 6 inches into the required dimensions of the window well.
Window wells with a vertical depth greater than 44 inches shall be equipped with a permanently affixed ladder or steps usable with the window in the fully open position. Ladders or steps required by this section shall not be required to comply with Sections R311.7 and R311.8. Ladders or rungs shall have an inside width of at least 12 inches, shall project at least 3 inches from the wall and shall be spaced not more than 18 inches on center vertically for the full height of the window well.
Bars, grilles, covers, screens or similar devices are permitted to be placed over emergency escape and rescue openings, bulkhead enclosures, or window wells that serve such openings, provided the minimum net clear opening size complies with Sections R310.1.1 to R310.1.3, and such devices shall be releasable or removable from the inside without the use of a key, tool, special knowledge or force greater than that which is required for normal operation of the escape and rescue opening.
Emergency escape windows are allowed to be installed under decks and porches provided the location of the deck allows the emergency escape window to be fully opened and provides a path not less than 36 inches in height to a yard or court.

EMERGENCY EGRESS WINDOW WELL PER R310.2



CONTRACTOR TO PROVIDE CONRETE ENCASED ELECTRODE IN ACCORDANCE WITH NFPA 70A AND ALL APPLICABLE CODES, WHEN CONCRETE FOOTING IS IN DIRECT CONTACT WITH EARTH. ELECTICAL CONTRACTOR TO PROVIDE GROUNDING ELECTRODES PER NFPA 70A 250.52 AND BONDING AS REQUIRED BY NFPA 70A AND ALL APPLICABLE CODES FOR A COMPETE AND PROPER GROUNDING ELECTRODE SYSTEM.

ELECTRODE TO EXTEND ABOVE TOP OF WALL TO BE BONDED TO GROUNDING ELECTRODE SYSTEM.
PROVIDE ACCESS PANEL FOR INSPECTION WHEN ELECTRODE IS CONCEALED IN WALL OR CEILING

BARE #4 REBAR CONNECTED TO 20' LONG SECTON AT BOTTOM OF FOOTING
ALL REBAR SPLICES TO BE BONDED TOGETHER BY STANDARD STEEL WIRE TIES

MINIMUM 20' LONG BARE #4 REBAR AT BOTTOM OF FOOTING WITH WIRE TIED SPLICES

GROUNDING DETAIL

DESIGN LOADS - IRC 2015 CHAPTER 3
USE GROUP R3 CONSTRUCTION TYPE 5B

Use	Live load
Attics without storage	10psf
Balconies & decks	60psf
Guardrails and handrails	200lb
Guardrail in-fill components	50psf
Rooms other than sleeping room	40psf
Sleeping room	30psf
Stair	40psf
Ground snow load	30psf
Wind load	115MPH - 3 sec gusts
Soil bearing capacity per report	1,500psf

BASEMENT	494SF
FIRST FLOOR	494SF
SECOND FLOOR	494SF
THIRD FLOOR	494SF
TOTAL AREA	1,976SF
ROOF DECK	422SF

PLANS APPROVED
AS NOTED FOR COMPLIANCE WITH PA UCC
10/02/20
CITY OF PHILADELPHIA
DEPARTMENT OF LICENSES & INSPECTIONS
Samia Akhtar
PA UCC CERT # 006493
Appied Electronically by L&I User:

PAUL DIETZ, III P.E.

Here's The Plan, LLC
541 Street Road, 2nd floor, Southampton, PA 18966
Office: 215-355-1262 Fax: 215-355-2502 Email: herestheplanllc@gmail.com

NEW 3 STORY ATTACHED SINGLE FAMILY DWELLING

1810 N. MARSTON STREET PHILADELPHIA, PA

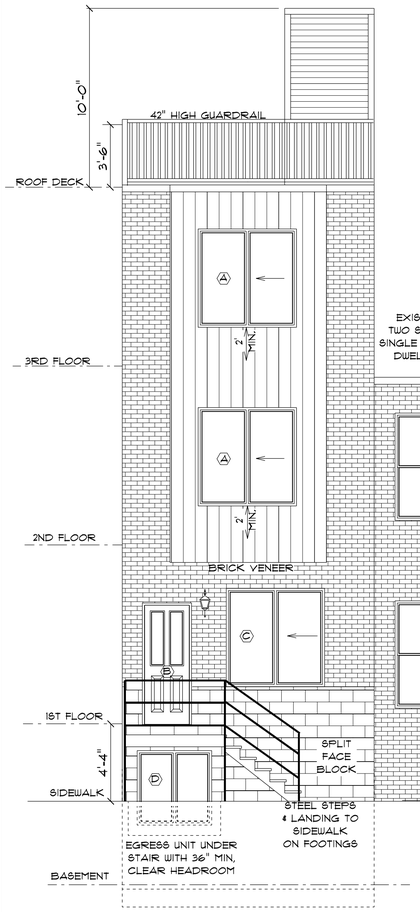
DRAWN BY: R.A.

DATE: MARCH 17, 2020

REV.

DRAWING NUMBER A1 of 4

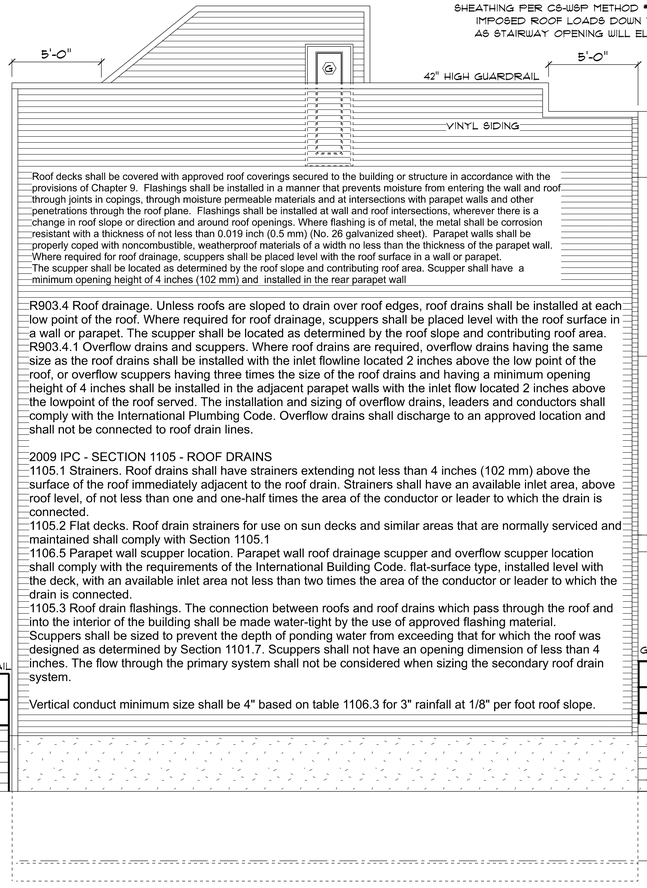
PLANS, SPECIFICATIONS, SECTION



FRONT ELEVATION

1/4" = 1' - 0"

PILOT HOUSE FRAMING WILL BE COMPLETELY SHEATHING PER CS-WSP METHOD #3 WITH NO ADDITIONAL IMPOSED ROOF LOADS DOWN TO LOWER FLOORS AS STAIRWAY OPENING WILL ELIMINATE THIS AREA



Roof decks shall be covered with approved roof coverings secured to the building or structure in accordance with the provisions of Chapter 9. Flashings shall be installed in a manner that prevents moisture from entering the wall and roof through joints in copings, through moisture permeable materials and at intersections with parapet walls and other penetrations through the roof plane. Flashings shall be installed at wall and roof intersections, wherever there is a change in roof slope or direction and around roof openings. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019 inch (0.5 mm) (No. 26 galvanized sheet). Parapet walls shall be properly coped with noncombustible, weatherproof materials of a width no less than the thickness of the parapet wall. Where required for roof drainage, scuppers shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the roof slope and contributing roof area. Scupper shall have a minimum opening height of 4 inches (102 mm) and installed in the rear parapet wall

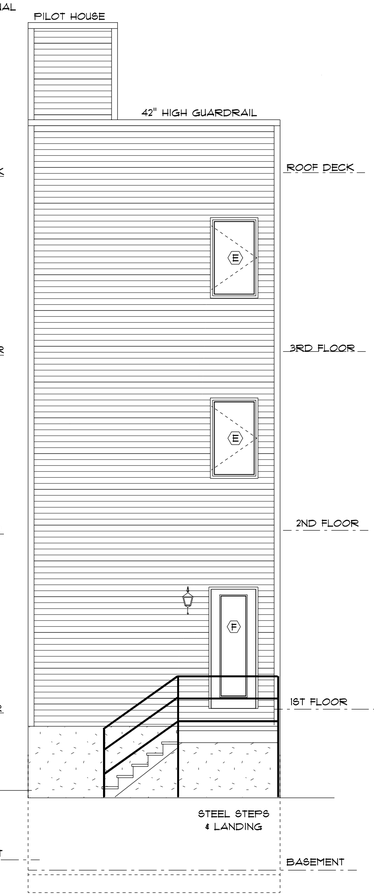
R903.4 Roof drainage. Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. Where required for roof drainage, scuppers shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the roof slope and contributing roof area.
R903.4.1 Overflow drains and scuppers. Where roof drains are required, overflow drains having the same size as the roof drains shall be installed with the inlet flowline located 2 inches above the low point of the roof, or overflow scuppers having three times the size of the roof drains and having a minimum opening height of 4 inches shall be installed in the adjacent parapet walls with the inlet flow located 2 inches above the lowpoint of the roof served. The installation and sizing of overflow drains, leaders and conductors shall comply with the International Plumbing Code. Overflow drains shall discharge to an approved location and shall not be connected to roof drain lines.

2009 IPC - SECTION 1105 - ROOF DRAINS
1105.1 Strainers. Roof drains shall have strainers extending not less than 4 inches (102 mm) above the surface of the roof immediately adjacent to the roof drain. Strainers shall have an available inlet area, above roof level, of not less than one and one-half times the area of the conductor or leader to which the drain is connected.
1105.2 Flat decks. Roof drain strainers for use on sun decks and similar areas that are normally serviced and maintained shall comply with Section 1105.1
1106.5 Parapet wall scupper location. Parapet wall roof drainage scupper and overflow scupper location shall comply with the requirements of the International Building Code. flat-surface type, installed level with the deck, with an available inlet area not less than two times the area of the conductor or leader to which the drain is connected.
1105.3 Roof drain flashings. The connection between roofs and roof drains which pass through the roof and into the interior of the building shall be made water-tight by the use of approved flashing material.
Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall not have an opening dimension of less than 4 inches. The flow through the primary system shall not be considered when sizing the secondary roof drain system.

Vertical conduct minimum size shall be 4" based on table 1106.3 for 3" rainfall at 1/8" per foot roof slope.

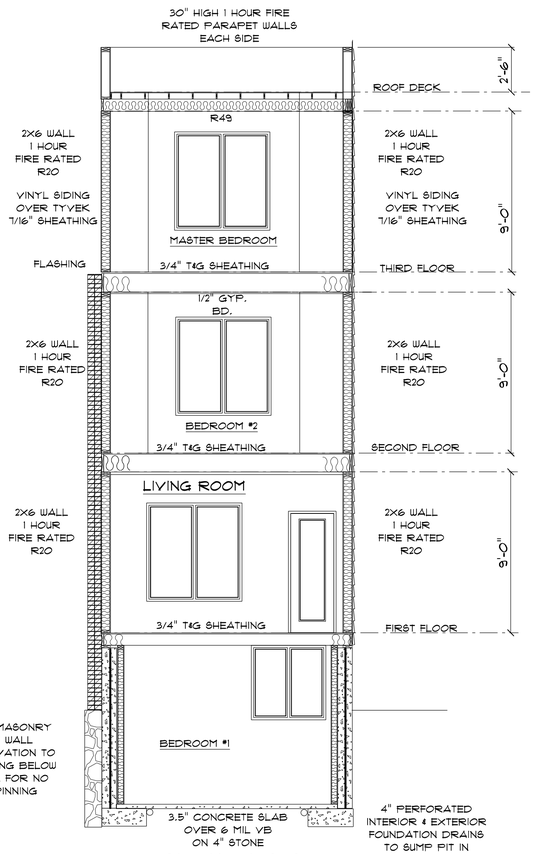
LEFT SIDE ELEVATION

1/4" = 1' - 0"



REAR ELEVATION

1/4" = 1' - 0"



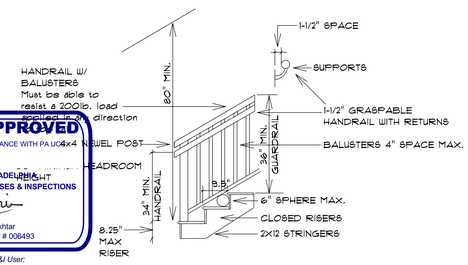
SECTION A-A

1/4" = 1' - 0"

WINDOW & DOOR SCHEDULE

	DESCRIPTION	U-Factor	R.O.	MFG.	QTY
A	Sliding unit to meet 5.7sf egress	0.35 max.	64" x 66"	SIMONTON	2
B	Insulated exterior door	0.35 max.	38" x 82"	SIMONTON	1
C	Sliding unit - TEMPERED	0.35 max.	64" x 66"	SIMONTON	1
D	Sliding unit to meet 5.7sf egress	0.35 max.	50" x 50"	SIMONTON	1
E	Casement unit	0.35 max.	32" x 54"	SIMONTON	2
F	Insulated exterior door - full view	0.35 max.	34" x 82"	SIMONTON	2

GENERAL NOTES: ALL UNITS TO HAVE LOW-E GLASS WITH GRILLES INTEGRAL J-CHANNEL AND NAILING FLANGES
FIELD VERIFY ROUGH OPENINGS PRIOR TO FRAMING.
EGRESS UNITS MUST HAVE 20" WIDE AND 24" HIGH MINIMUM CLEAR OPENING WITH SASH IN FULL OPEN POSITION AND MEET THE 5.7SF FOR SECOND FLOOR SLEEPING ROOMS OR 5.0SF FOR GROUND LEVEL SLEEPING ROOMS TOTAL OPENING REQUIREMENT UNITS LOCATED WITHIN 24" OF ANY DOOR SHALL BE TEMPERED SAFETY GLASS OPERABLE
WINDOWS MORE THAN 72" FROM THE BOTTTOM SILL TO GRADE OR SURFACE BELOW SHALL HAVE A MINIMUM SILL HEIGHT OF 24" ABOVE FINISHED FLOOR



TYPICAL STAIR DETAIL

3/8" = 1' - 0"

TREAD DEPTH & RISER HEIGHT SET PER PENNSYLVANIA HOUSE BILL 1654 ENACTED IN APRIL 2004 ALLOWING STAIR DESIGN TO MEET PREVIOUS BOCA/CABO STANDARDS IN LIEU OF NEW IRC 2006 CODE

THE MAXIMUM RISER HEIGHT SHALL BE 8.25". THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". THE MINIMUM TREAD DEPTH SHALL BE 9.5". THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 10" MEASURED AS ABOVE AT A POINT 12" FROM THE SIDE WHERE THE TREADS ARE NARROWER. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 6" AT ANY POINT. WITHIN ANY FLIGHT OF STAIRS, THE LARGEST WINDER TREAD DEPTH AT THE 12" WALK LINE SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 9/16". A NOSING NOT
LESS THAN 3/4" BUT NOT MORE THAN 1.25" SHALL BE PROVIDED ON STAIRS WITH SOLID RISERS. A NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF 11"

ALL REQUIRED HANDRAILS SHALL BE OF ONE OF THE FOLLOWING TYPES OR PROVIDE EQUIVALENT GRASPABILITY.
TYPE 1: HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1.25" AND NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR IS SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" AND NOT GREATHER THAN 6.25" WITH A MAXIMUM CROSS SECTION DIMENSION OF 2.25"
TYPE 2: HANDRAILS WITH A PERIMETER GREATER THAN 6.25" SHALL PROVIDE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITH A DISTANCE OF 3/4" MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND ACHIEVE A DEPTH OF AT LEAST 5/16" WITHIN 7/8" BELOW THE WIDEST PORTION OF THE PROFILE. THIS REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8" TO A LEVEL THAT IS NOT LESS THAN 1.75" BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1.25" TO A MAX. OF 2.75", EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01"GRASPABLE HANDRAIL SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH 4 OR MORE RISERS. HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING SHALL BE NOT LESS THAN 34" OR NOT MORE THAN 38". HANDRAILS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER OF THE FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1.5" BETWEEN THE WALL AND THE HANDRAILS.

GUARDRAILS SHALL BE PROVIDED ON ALL WALLS, BALCONIES, RAMPS OR PORCHES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW. GUARDS SHALL BE NOT LESS THAN 36" IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 34" IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. REQUIRED GUARDS SHALL HAVE INTERMEDIATE RAILS OR BALUSTERS WHICH DO NOT ALLOW PASSAGE OF A SPHERE 4" OR MORE IN DIAMETER EXCEPT THE TRIANGULAR OPENINGS FORMED BY RISERS, TREAD AND BOTTOM RAILS OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE OF SUCH A SIZE THAT A SPHERE 6" CANNOT PASS THROUGH.

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

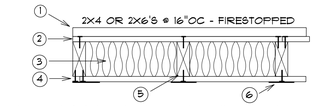
	BUILDING ELEMENT DESCRIPTION	# & FASTENER	SPACING
	ROOF		
1	Blocking between joists or rafters to top plate, toe nail	3-8d	-
2	Ceiling joists to plate, toe nail	3-8d	-
3	Ceiling joists not attached to parallel rafter, face nail	3-10d	-
4	Collar tie rafter face nail	3-10d	-
5	Rafter to plate, toe nail	2-16d	-
6	Roof rafter to ridge, toe nail	4-16d	-
	WALLS		
7	Built up corner stud	10d	24"oc
8	Built up header, 2 piece with 1/2" spacer	16d	16"oc along each edge
9	Continued header, 2 piece	16d	16"oc along each edge
10	Continuous header to stud, toe nail	4-8d	-
11	Double studs, face nail	10d	24"oc
12	Double top plates,, face nail	10d	24"oc
13	Double top plate, min 48" offset of end joints, face nail	8-16d	-
14	Sole plate to joist or blocking, face nail	16d	16"oc
15	Sole plate to joist or blocking at braced wall panels	2-8d	16"oc
16	Stud to sole plae, toe nailed	8-8d	-
17	Top or sole plate to stud, end nail	2-16d	-
18	Top plates, laps at corners & intersections, face nail	2-10d	-
19	1" brace to each stud & plate, face nail	2-8d	-
20	1" x 6" sheathing to each bearing, face nail	2-8d	-
21	1" x 8" sheathing to each bearing, face nail	2-8d	-
22	Wider than 1" x 8" sheathing to each bearing, face nail	3-8d	-
	FLOOR		
23	Joist to sill or girder, toe nail	3-8d	-
24	1" x 6" subfloor or less to each joist, face nail	2-8d	-
25	2" subfloor to joist or girder, blind & face nail	2-16d	-
26	Rim joist to top plate, toe nail (roof application also)	8d	6"oc
27	2" planks	2-16d	at each bearing
28	Built up girder and beams, 2" lumber layers	10d	32"oc top & bottom
29	Ledger strip supporting joists or rafters	3-16d	At each joist or rafter

TABLE R602.3
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS
Wood structural panels, subfloor, roof and interior wall sheathing to framing & particleboard sheathing to framing

	Description of building materials	Description of fasteners	Edges	Intermediate supports
30	3/8" - 1/2" OSB or CDX	6d common(subfloor wall)	6	12
31	5/16" - 1/2" OSB or CDX	6d common (subfloor, wall	6	12
32	19/32" - 1" OSB or CDX	6d common	6	12

Gypsum board sheathing shall be applied vertically and 8d sheathing nails in lieu of 6's

For wind speeds greater than 100, nails for attaching panel roof sheathing to intermediatte supporsts shall be spaced 6" oc minimum 48" distance from ridges, eaves and gable end walls and 4"oc to gable end wall framing.



1. Molded Plastic may be used: Solid vinyl siding mechanically secured to framing members in accordance with manufacturer's recommended installation instructions.

2. Gypsum Board Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick gypsum sheathing supplied in min 2 ft wide sheets, installed horizontally. Attached to each wood stud with 2 in. long 6d nails spaced vertically 8 in. OC.

3. Batts and Blankets Min. 3 in. thick mineral or glass fiber batts.

4. Gypsum Board Nom 5/8 in. thick wallboard, with beveled, square or tapered edges. Wallboard nailed 7 in. O.C. with 6d nails 1-7/8 in. long. When used in widths other than 48 in., wallboard is to be installed horizontally.
Any UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.
4A. Gypsum Board (As an alternate to Item 4) Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 4.
4B. Gypsum Board (As an alternate to Item 4) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically or horizontally and secured as described in Item 4 or with 1-1/4 in. Type W screws spaced 8 in. OC.
4C. Wall and Partition Facings and Accessories (As an alternate to Item 4) Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 4.

5. Nailheads Covered with joint compound.

6. Joints Covered with paper taps and joint compound.

1 HOUR EXTERIOR WALL FIRE RATED ASSEMBLY PER UL U032 - ANSI/UL 263

PLANS APPROVED
AS NOTED FOR COMPLIANCE WITH PA UCC
10/02/20
CITY OF PHILADELPHIA
DEPARTMENT OF LICENSES & INSPECTIONS
Samia Akhtar
PA UCC CERT # 006493
Applied Electronically by L&I User:

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL DIETZ III ENGINEER NO. 037916E

PAUL DIETZ, III P.E.

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NEW 3 STORY ATTACHED SINGLE FAMILY DWELLING

1810 N. MARSTON STREET
PHILADELPHIA, PA

DRAWN BY: R.A.
DATE: MARCH 17, 2020
REV.
DRAWING NUMBER A2 of 4

PLANS, SPECIFICATIONS, SECTION