MANUFACTURERS

WINDOWS: SILVERLINE 3900 SERIES

DOORS: SELECTION BY OWNER

AIR INFILTRATION RATE FOR WINDOWS, SKYLIGHTS, & SLIDING DOORS TO BE NO MORE THAN 0.3 cfm/sf. & SLIDING DOORS NO MORE THAN 0.5 cfm/sf. AS PER SECT. 402.4.4 OF 2010 NYS ENERGY CODE

BUILDER TO PROVIDE ROOF OR RIDGE VENTS AS PER CODE

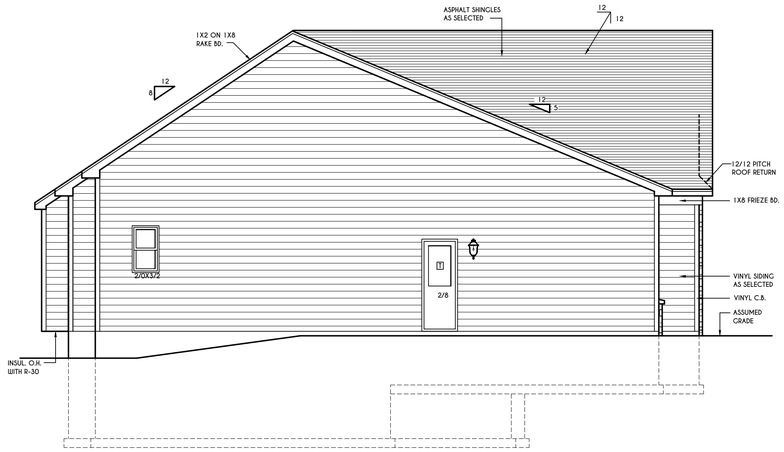
ALL RAKES & OVERHANGS ARE TO BE 1'-0" UNLESS NOTED OTHERWISE

GRADE NOTE:

CONTRACTOR TO CONTACT THIS OFFICE PRIOR TO CONSTRUCTION IF THE ASSUMED GRADE DEPICTED IS INACCURATE AND / OR WILL ALTER THE DESIGN AND / OR STRUCTURE NOTED.

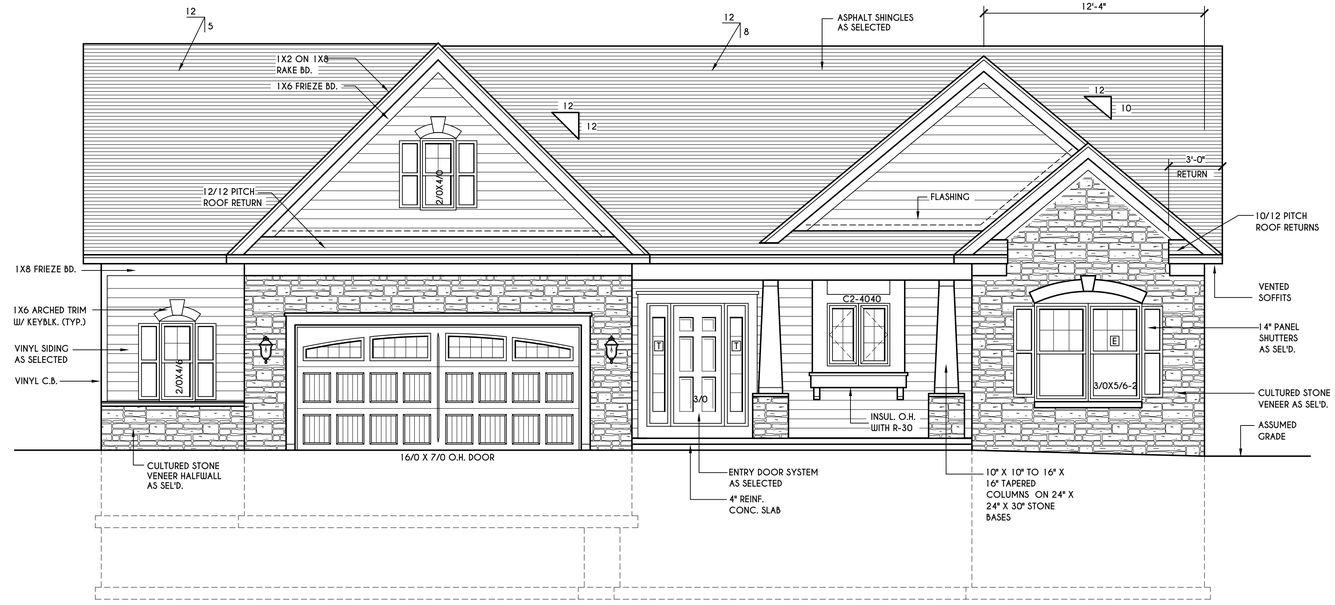
[E] = MEETS OR EXCEEDS EGRESS REQUIREMENTS
- CLEAR OPENING AREA OF 5.7 SQ.FT.
- CLEAR OPENING WIDTH OF 20"
- CLEAR OPENING HEIGHT OF 24" PER SECT. R310.1 OF NYS RESIDENTIAL CODE

[T] = SPECIFIES THAT THIS FIXED OR OPERABLE UNIT REQUIRES SAFETY GLAZING PER SECT. R308.4 OF NYS RESIDENTIAL CODE



LEFT ELEVATION

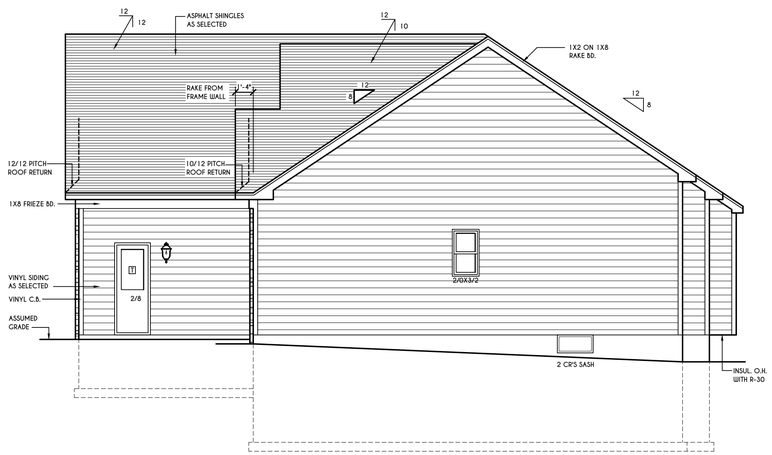
SCALE: 3/16" = 1'-0"



FRONT ELEVATION

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

TOTAL LIVING AREA = 1644 SQ. FT.



RIGHT ELEVATION

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

REAR ELEVATION

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

GREATER LIVING ARCHITECTURE, P.C.

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REVISIONS:

DATE	BY	DESCRIPTION
7/16	CSB	CODE UPDATE

CLIENT/LOCATION:

LOT 3
CALEBS TRAIL
PARMA

BUILDER:

HOME PRIDE BUILDERS

ELEVATIONS

GLA PLAN 1644 R

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AMM	CDK
scale:	date:
AS NOTED	4/15

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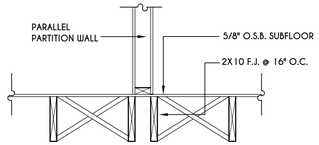
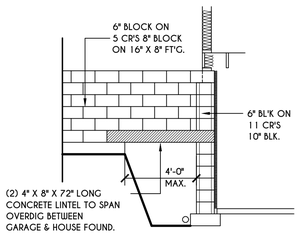
sheet: 1 / 4



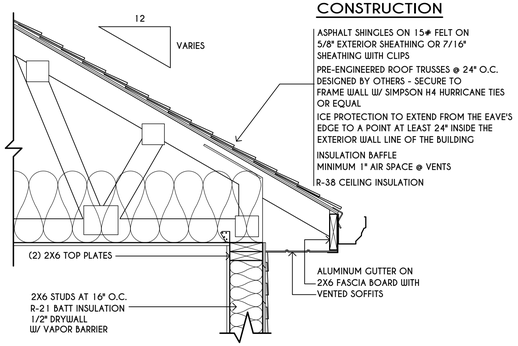
DOUBLE FLOOR JST'S UNDER
PARALLEL PARTITION WALL DETAIL



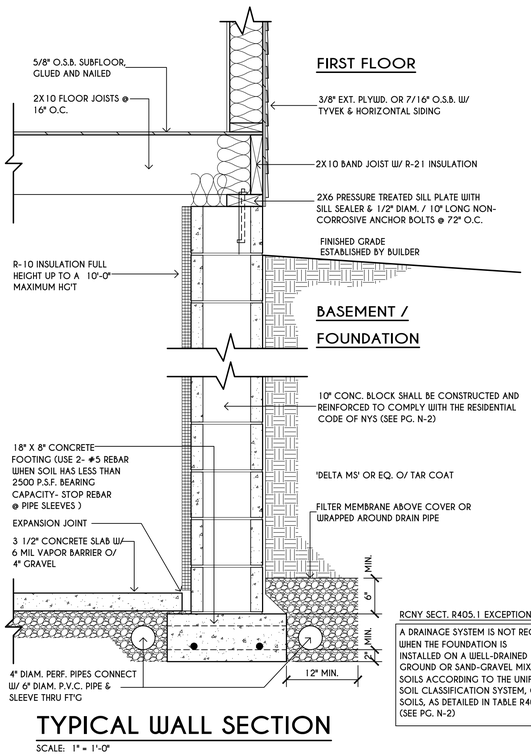
1/2 C.M.U. JUMP
FOOTING DETAIL

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

TRUSS EAVE CONSTRUCTION



FIRST FLOOR



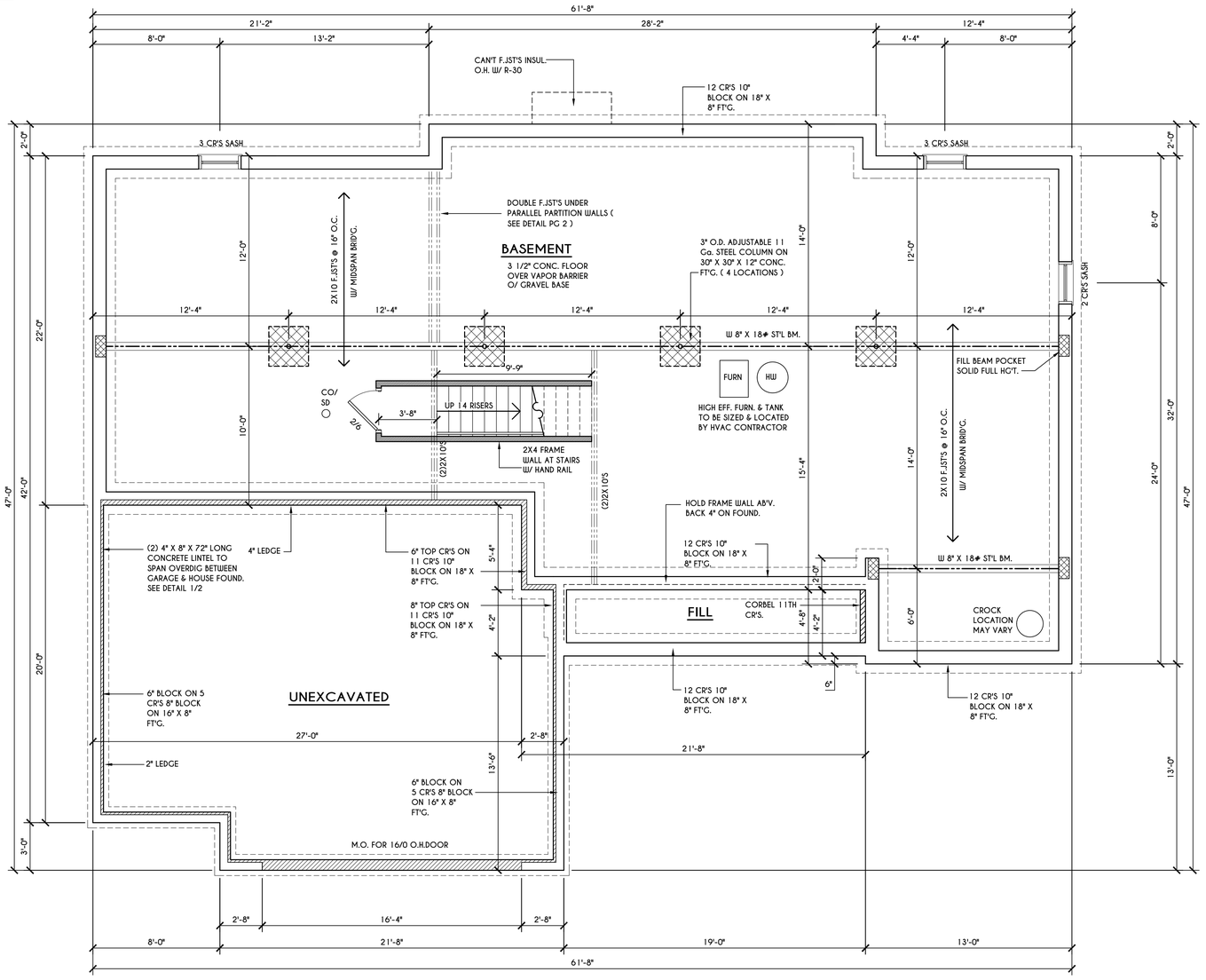
BASEMENT / FOUNDATION

RCNY SECT. R405.1 EXCEPTION

A DRAINAGE SYSTEM IS NOT REQ'D. WHEN THE FOUNDATION IS INSTALLED ON A WELL-DRAINED GROUND OR SAND-GRAVEL MIXTURE SOILS ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM, GROUP 1 SOILS, AS DETAILED IN TABLE R405.1. (SEE PG. N-2)

TYPICAL WALL SECTION

SCALE: 1" = 1'-0"



NOTE:

REINFORCE FOUNDATION WALLS AS PER THE RESIDENTIAL CODE OF NEW YORK STATE

GRADE NOTE:

CONTRACTOR TO CONTACT THIS OFFICE PRIOR TO CONSTRUCTION IF THE ASSUMED GRADE DEPICTED IS INACCURATE AND / OR WILL ALTER THE DESIGN AND / OR STRUCTURE NOTED

BASEMENT & FOUNDATION PLAN

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

NOTES:
- PROVIDE SOLID BLOCKING UNDER ALL BEARING POINTS DOWN TO FOUNDATION WALL
- PROVIDE DB'L JACK STUDS EA. SIDE OF LOAD BEARING OPENINGS > / = 4'-0"
- ALL ANGLES TO BE 45 DEG. U.N.O.
- SMOKE (SD) & CARBON MONOXIDE (CO) DETECTORS SHALL BE HARD WIRED & INTERCONNECTED AS PER R313.1 & R313.4 OF NYS RESIDENTIAL CODE
- HANDRAIL ASSEMBLIES AND GUARDS SHALL BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 POUNDS AS PER 1607.1.1 OF NYS BUILDING CODE

LEGEND:
- ■ - PROVIDE SOLID POSTING
- - - - DROPPED HEADER
- ≡≡≡ - FLUSH HEADER
- ▭ - 2X4 STUDS @ 16" O.C.
- ▨ - 2X6 STUDS @ 16" O.C.

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CLIENT/LOCATION:

LOT 3
CALEBS TRAIL
PARMA

BUILDER:

HOME PRIDE BUILDERS

FOUNDATION PLAN

GLA PLAN 1644 R

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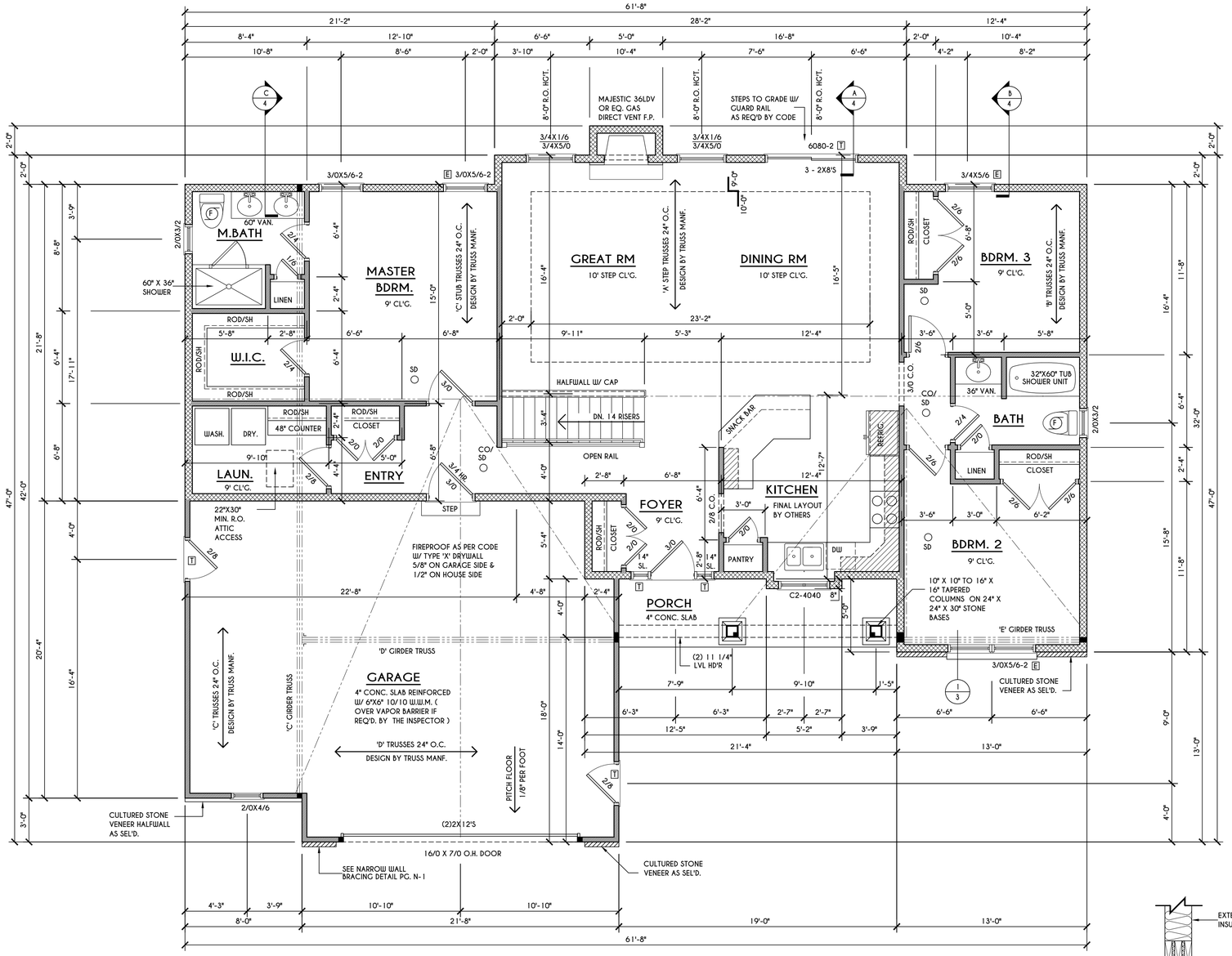
scale:	date:
AS NOTED	4/15
PROJECT:	sheet:
2382 A16	2 / 4



LEGEND:

- PROVIDE SOLID POSTING
- DROPPED HEADER
- FLUSH HEADER
- 2X4 STUDS @ 16" O.C.
- 2X6 STUDS @ 16" O.C.

FIRST FLOOR PLAN

1644 SQ. FT.

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

NOTES:
- FIRST FLOOR PLATE HGT TO BE 9'-1 1/8" (UNLESS NOTED OTHERWISE)
- ALL WINDOW R.O. HGT'S TO BE 6'-10 1/2" U.N.O.
- PROVIDE SOLID BLOCKING UNDER ALL BEARING POINTS DOWN TO FOUNDATION WALL
- PROVIDE DB'L JACK STUDS EA. SIDE OF LOAD BEARING OPENINGS > / = 4'-0"
- ALL ANGLES TO BE 45 DEG. U.N.O.
- ALL EXTERIOR WINDOW & DOOR HEADERS TO HAVE MIN. R-5 INSUL. & TO BE MIN. (3) 2X6'S (U.N.O.)
- ALL APPLIANCES BY OWNER OR AS PER CONTRACT BY BUILDER
- SMOKE (SD) & CARBON MONOXIDE (CO) DETECTORS SHALL BE HARD WIRED & INTERCONNECTED AS PER R313.1 & R313.4 OF NYS RESIDENTIAL CODE
- HANDRAIL ASSEMBLIES AND GUARDS SHALL BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 POUNDS AS PER 1607.1.1 OF NYS BUILDING CODE

[E] = MEETS OR EXCEEDS EGRESS REQUIREMENTS
- CLEAR OPENING AREA OF 5.7 SQ.FT.
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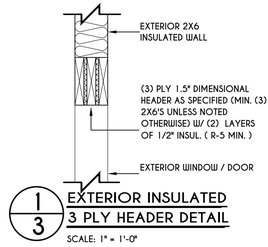

1/3 EXTERIOR INSULATED 3 PLY HEADER DETAIL

SCALE: 1" = 1'-0"

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FIRST FLOOR PLAN

GLA PLAN 1644 R

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AS NOTED	4/15
PROJECT:	sheet:
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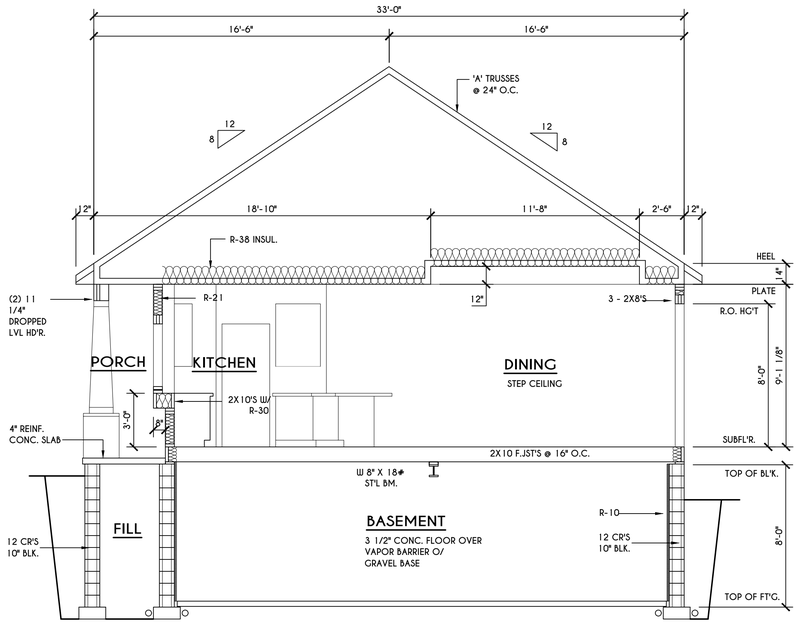
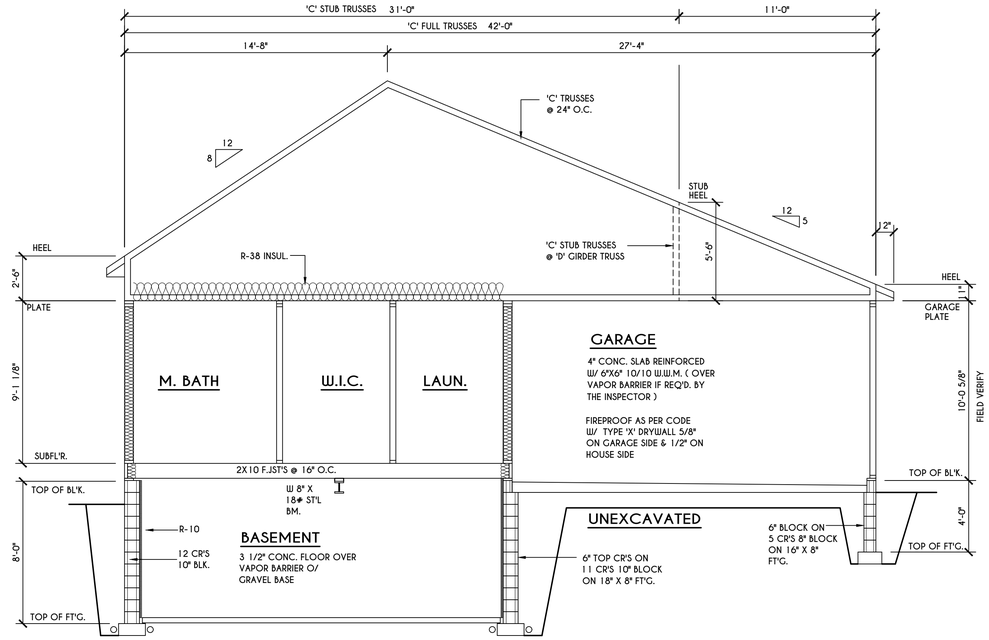


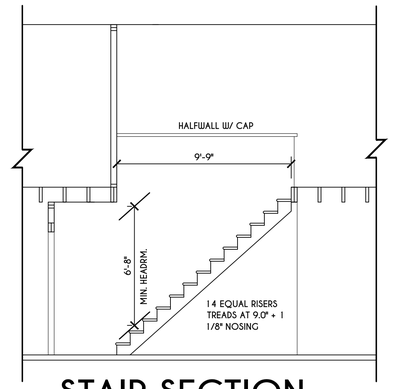
A/4 BUILDING SECTION

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



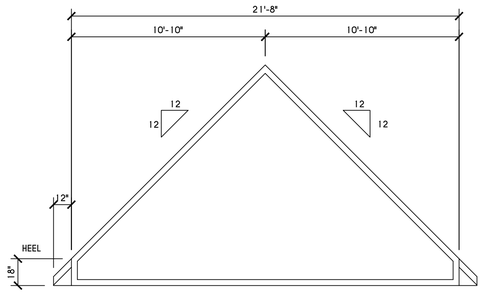
C/4 BUILDING SECTION

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



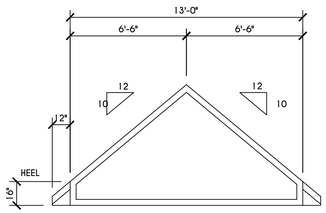
STAIR SECTION

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



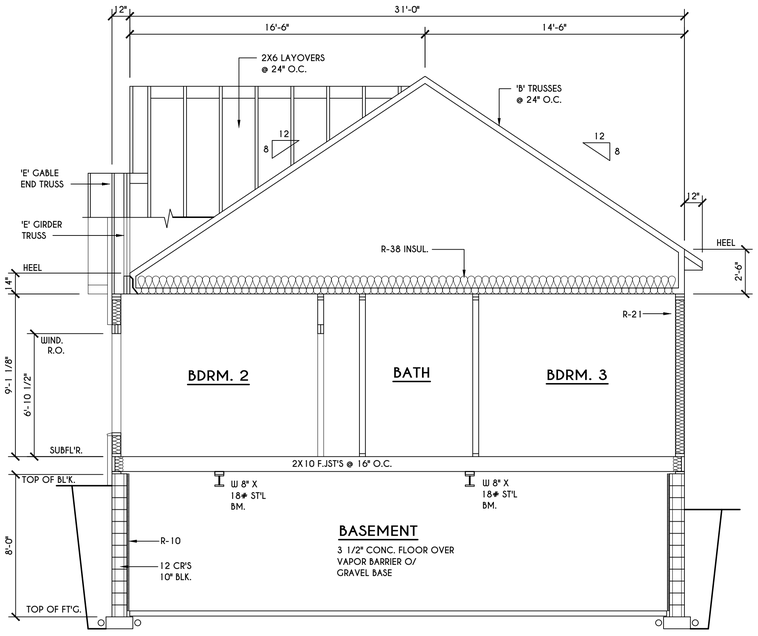
'D' TRUSS PROFILE

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



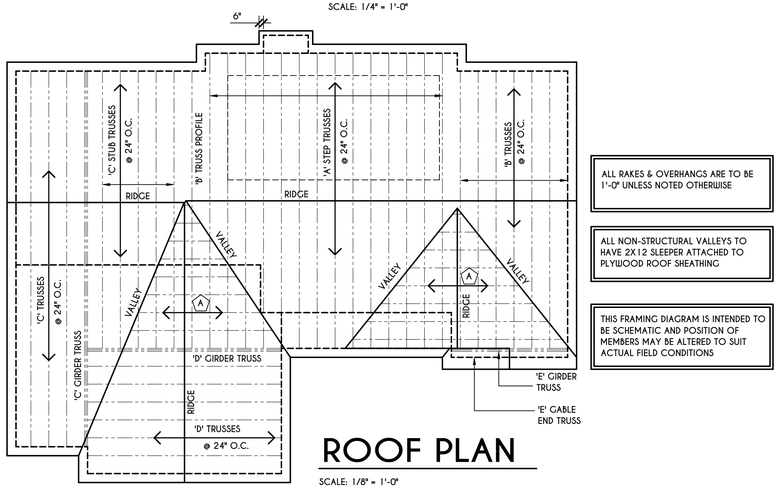
'E' TRUSS PROFILE

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



B/4 BUILDING SECTION

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



ROOF PLAN

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

A — 2X6 LAYOVER RAFTERS 24" O.C.

ALL RAKES & OVERHANGS ARE TO BE 1'-0" UNLESS NOTED OTHERWISE

ALL NON-STRUCTURAL VALLEYS TO HAVE 2X12 SLEEPER ATTACHED TO PLYWOOD ROOF SHEATHING

THIS FRAMING DIAGRAM IS INTENDED TO BE SCHEMATIC AND POSITION OF MEMBERS MAY BE ALTERED TO SUIT ACTUAL FIELD CONDITIONS

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SECTIONS

GLA PLAN 1644 R

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scale:	date:
AS NOTED	4/15

PROJECT: 2382 A16

sheet: 4/4

GENERAL NOTES :

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IT IS THE RESPONSIBILTY OF THE CONTRACTOR, BUILDER OR OWNER OF THIS BUILDING TO NOTIFY THE ARCHITECT OF ANY DEVIATION FROM THESE DRAWINGS.

CLIENT RIGHTS ARE LIMITED TO A ONE-TIME USE FOR THE CONSTRUCTION OF THESE PLANS

CODE COMPLIANCE :

THESE PLANS COMPLY WITH THE NEW YORK STATE ENERGY CODE EFFECTIVE DECEMBER 2010. PLEASE REFER TO RESCHECK CALCULATIONS PROVIDED FOR COMPLIANCE INFORMATION.

CONTRACTOR TO BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE BUILDING/ ELECTRICAL/ MECHANICAL/ SANITARY AND ENERGY CONSERVATION CODES - STATE AND OR LOCAL.

CONTRACTOR TO BE RESPONSIBLE TO LOCAL BUILDING DEPARTMENT AND THAT DEPARTMENT'S INTERPRETATION OF THE BUILDING CODE SHOULD IT DIFFER FROM THESE PLANS.

CONTRACTOR TO BE RESPONSIBLE THAT BRAND NAME OF WINDOWS AND DOORS INSTALLED MEET NEW YORK STATE EXIT REQUIREMENTS.

A MINIMUM OF 50% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS PER SECTION 1103.9 OF THE 2010 NY RESIDENTIAL CODE.

RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES PER SECTION 1102.4.5 OF THE 2010 NY RESIDENTIAL CODE.

CONTRACTOR TO PROVIDE A PROGRAMMABLE THERMOSTAT TO CONTROL THE HVAC SYSTEM PER SECTION 1103.1.2 OF THE 2010 NY RESIDENTIAL CODE.

ALL CIRCULATING SERVICE HOT WATER PIPING SHALL BE INSULATED TO AT LEAST R-2. CIRCULATING HOT WATER SYSTEMS SHALL INCLUDE AN AUTOMATIC OR READILY ACCESSIBLE MANUAL SWITCH THAT CAN TURN OFF THE HOT WATER CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE PER SECTION 1103.4 OF THE 2010 RESIDENTIAL CODE.

ATTIC ACCESS SHALL BE INSULATED WITH THE SAME R- VALUE AS THE ATTIC, WEATHER STRIPPED AND LATCHED PER 1102.2.3 OF THE 2010 NY RESIDENTIAL CODE.

AIR TIGHTNESS AND INSULATION INSTALLATION SHALL BE VERIFIED BY VISUAL INSPECTION PER SECTION 1102.4.3.2 OF THE 2010 NY RESIDENTIAL CODE.

SUPPLY DUCTS IN ATTICS SHALL BE INSULATED TO A MIN. OF R-8. ALL OTHER DUCTS SHALL BE INSULATED TO A MINIMUM OF R-6, WITH THE EXCEPTION OF DUCTS OR PORTIONS THEREOF LOCATED COMPLETELY INSIDE THE BUILDING THERMAL EVELOPE AS PER SECTION 403.2.1 OF THE ECCCNY.

MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 DEGREES F OR BELOW 55 DEGREES F SHALL BE INSULATED TO A MINIMUM OF R-3 AS PER SECTION 403.3 OF THE ECCCNY.

OUTDOOR AIR INTAKE AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING AS PER SECTION 403.5 OF THE ECCCNY.

MISCELLANEOUS :

CONTRACTOR TO VERIFY ALL NOTES AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND TO BE RESPONSIBLE FOR ERRORS AND / OR OMISSIONS.

CONTRACTOR TO BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND SAFETY PRECATIONS/ PROGRAMS IN CONNECTION WITH THE WORK.

THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS - USE DIMENSIONS GIVEN.

THE CONTRACTOR/ OWNER SHALL REQUEST LOCATION OF ALL UTILITIES PRIOR TO ANY DIGGING.

THE CONTRACTOR SHALL INDEMNIFY THE OWNER AND OWNER'S AGENTS THROUGH ADEQUATE INSURANCE COVERAGE AGAINST ANY CLAIMS ARISING FROM INJURIES DURING CONSTRUCTION, OR FAILURE TO MAINTAIN SAFE CONDITIONS ON THE SITE.

THESE DRAWINGS HAVE BEEN PREPARED FOR STUCTURAL REFERENCE ONLY. ELECTRICAL, MECHANICAL AND OTHER BUILDING SYSTEMS, IF REQUIRED, ARE TO BE DONE BY OTHERS

TRUSSES :

WOOD TRUSSES (IF USED) TO BE DEIGNED FOR 40 PSF. LIVE (GROUND SNOW LOAD)
MANUFACTURER TO CALCULATE ALL OTHER LOADS IMPOSED ON TRUSSES AS REQUIRED, AND CERTIFIED THEIR DESIGN BY A LICENSED NEW YORK STATE ENGINEER OR ARCHITECT.

FOUNDATION :

ALL FOOTINGS TO REST ON (ORIGINAL) UNDISTURBED SOIL, ASSUMED MINIMUM SOIL BEARING PRESSURE TO BE 2500 P.S.F. CONTRACTOR TO BE RESPONSIBLE FOR ALL SUBGRADE CONDITIONS.

BASEMENT/CELLAR WALLS AND FOOTING DESIGNS ASSUMED PARTIALLY SATURATED SOIL CONDITIONS TO TO THE FULL WALL DEPTH. SHOULD SATURATED CONDITIONS BE ENCOUNTERED, OUR OFFICE SHOULD BE CONTACTED FOR REVIEW AND POSSIBLE REVISIONS TO THE PLANS.

CONCRETE AND MASONRY FOUNDATION WALLS SHALL BE SELECTED AND CONSTRUCTED AS SET FORTH IN TABLES R404.1.1 (1), R404.1.1 (2), R404.1.1 (3) R404.1.1 (4), AND R404.1.1 (5) OF THE RESIDENTIAL CODE OF NEW YORK STATE

CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PROVIDING PROPER DRAINAGE SHOULD INTERMITTENT SPRINGS OR PERCHED WATER BE ENCOUNTERED.

POSITIVE DRAINAGE SHALL BE PROVIDED SO THAT FINISHED GRADE SLOPES AWAY FROM PERIMETER WALLS & FOOTINGS.

CONTINUOUS 4" DIAM. PERFORATED DRAIN PIPE SHALL BE PLACED ALONG THE PERIMETER OF THE BASEMENT WALLS WHICH DRAINS TO THE SUMP PUMP. A MINIMUM OF 6" GRANULAR BASE SHALL BE PLACED OVER THE DRAIN TILE AND MINIMUM OF 2" UNDER THE TILE.

FRAMING :

BUILDING FRAMING CAVITIES SHALL NOT BE USED AS SUPPLY DUCTS AS PER SECTION 403.2.3 OF THE ECCCNY.

PROVIDE ALL TEMPORARY BRACING AND SHORING TO AVOID EXCESSIVE STRESSES AND HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.

UNDER ALL CONCEALED WOOD BEARING POSTS, PROVIDE ADDITIONAL WOOD BLOCKING AS REQUIRED IN FLOOR JOIST SPACE UNDER POST, TO ENSURE SOLID BEARING FROM HEADER OR BEAM DOWN TO FOUNDATION WALL.

ALL WINDOWS AND DOORS ARE TO BE FRAMED WITH MINIMUM 3-2X6 OR 2-2X8 HEADER UNLESS NOTED OTHERWISE.

BUILDER ASSUMES FULL RESPONSIBILY FOR MAINTAINING THE STRUCTURAL INTEGRITY OF JOISTS, BEAMS OR STUDS WHICH ARE NOTCHED OR DRILLED TO ACCOMMODATE MECHANICAL OR ELECTRICAL LINES.

ALL STRESS GRADE LUMBER CONSTRUCTION SHALL COMPLY WITH AITC TIMBER CONSTRUCTION STANDARDS LATEST EDITION. EACH PIECE SHALL BEAR THE STAMP OF A GRADING RULES AGENCY, APPROVED BY THE AMERICAN LUMBER STANDARDS COMMITTEE . GRADE LOSS RESULTING FROM EFFECTS OF WEATHER, HANDLING, STORAGE, RESAWING, OR DIVIDING LENGTHS WILL BE CAUSE FOR REJECTION.

SITE CONDITIONS :

THESE PLANS HAVE BEEN PREPARED ACCORDING TO NEW YORK STATE BUILDING CODE REQUIREMENTS TO SUIT A GENERAL RANGE OF CONDITIONS THAT MAY BE AFFECTED BY A PARTICULAR BUILDING SITE OR BUILDER/ OWNER CONTRACTUAL AGREEMENT. CONTRACTOR TO BE RESPONSIBLE TO ADAPT THESE PLANS TO SUIT THE NEEDS OF THE BUILDING ON SITE AS REQUIRED, PROVIDED THAT SUCH ADJUSTMENTS DO NOT VIOLATE THE CODE OR ALTER THE STRUCTURAL INTEGRITY OF THE BUILDING.

CONTRACTOR/ OWNER SHALL PERFORM EXPLORATORY EXCAVATION TO DETERMINE ACTUAL FIELD CONDITIONS AND NOTIFY THIS OFFICE OF THE FINDINGS TO ALLOW FOR DESIGN CHANGES PRIOR TO ACTUAL CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/ OWNER TO DEVELOP THE NECESSARY FOUNDATION SOIL TO SUSTAIN THE LOAD DESIGNS OF 2500 P.S.F. AND TO HIRE, IF NECESSARY, A SOILS ENGINEER TO INSPECT AND VERIFY SOIL CONDITIONS PRIOR TO POURING OF FOUNDATIONS.

THE CONTRACTOR, BUILDER OR OWNER SHALL NOTIFY THE ARCHITECT OF ANY UNUSUAL SITE CONDITIONS WHICH MAY EFFECT THE FOUNDATION, DRAINAGE OR STRUCTURAL MEMBERS INCLUDING REQUIREMENTS FOR ADDITIONAL DEPTH OF FOOTINGS, UNSTABLE SOIL CONDITIONS AND HIGH GROUND WATER TABLE.

NO SITE INSPECTIONS ARE TO BE MADE BY THIS OFFICE. CONTRACTOR TO BE RESPONSIBLE FOR MATERIALS AND WORKMANSHIP. SUBSTITUTIONS FOR MATERIALS SPECIFIED TO BE MADE WITH THE PERMISSION OF THE LOCAL BUILDING DEPT.

GARAGE FIREPROOFING :

3/4 HOUR FIRE RESISTANCE RATING NEEDED BETWEEN HOUSE & GARAGE CAN BE ACHIEVED WITH ONE LAYER 5/8" TYPE X DRYWALL ON GARAGE SIDE AND ONE LAYER 1/2" TYPE X DRYWALL ON THE OPPOSITE SIDE. APPLICATION TO BE IN ACCORDANCE WITH R702.3.

IF LIVING AREA OR BONUS AREAS ARE ABOVE GARAGE, THEN ONE LAYER OF 5/8" TYPE X DRYWALL ON THE CEILING IS REQUIRED.

FIREPLACES :

DIRECT VENT GAS FIREPLACE UNIT TO BE SELECTED BY OWNER AND INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

WITH WOOD BURNING UNITS, MAXIMUM INFILTRATION OF 20 CFM. WITH DAMPER CLOSED. ALSO THE SOURCE OF OUTSIDE AIR TO BE EQUIPPED WITH A DAMPER THAT CAN BE FULLY CLOSED.

DESIGN CRITERIA : (FOR GREATER ROCHESTER AREA & ADJACENT COUNTIES)

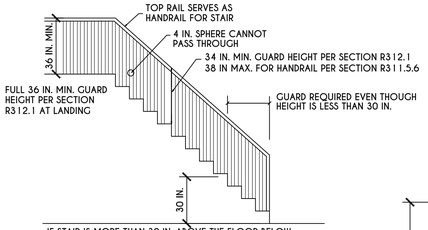
NOTE

LOCAL JURISDICTION DESIGN CRITERIA MAY VARY AND SHALL BE STRICTLY ADHERED TO

1ST AND 2ND FLOOR LIVING AREA LIVE LOAD	40 P.S.F.
SLEEPING AND ATTIC AREA LIVE LOAD	30 P.S.F.
FLOOR DEAD LOAD	15 P.S.F.
GROUND SNOW LOAD	40 P.S.F.
ROOF DEAD LOAD	10 P.S.F.
ALLOWABLE SOIL BEARING	2500 P.S.F. AT MINIMUM 42" BELOW FINISHED GRADE
WIND SPEED	90 MPH, EXPOSURE B
SEISMIC DESIGN CATAGORY	B
WEATHERING	SEVERE
FROST LINE DEPTH	42 INCHES
TERMITE DAMAGE	SLIGHT TO MODERATE
DECAY DAMAGE	NONE TO SLIGHT
WINTER DESIGN TEMPERATURE	1 DEGREE
ICE SHEILD UNDERLAYMENT	REQUIRED 24" INSIDE OF EXTERIOR WALL LINE
FLOOD HAZARD	FIRM - 1992
ROOF TIE DOWN REQUIREMENTS	R802.11, BASED UPON SPECIFIC ROOF DESIGN

STRUCTURAL MATERIAL SPECIFICATIONS :

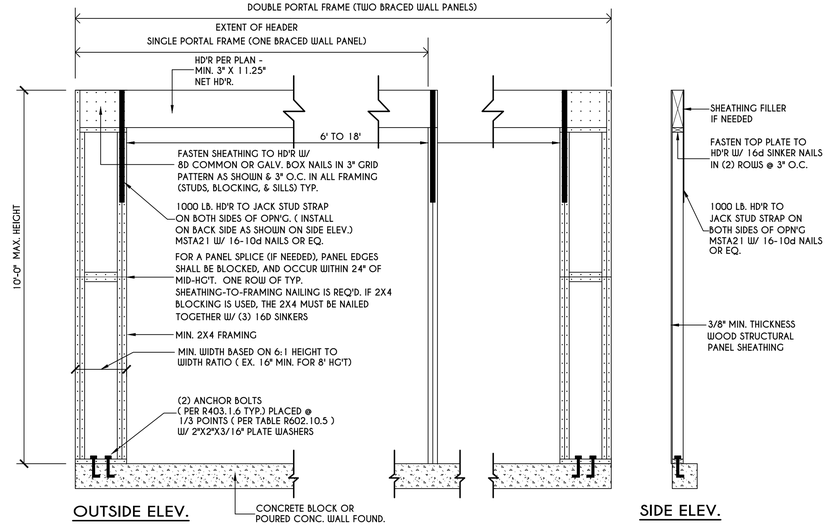
STRUCTURAL STEEL	ASTM A-36, Fy = 36 ksi
REINFORCED STEEL	ASTM A-615, Fy = 40 ksi
WIRE MESH	ASTM A-185, 6 x 6 - 10/10 W.W.M.
LUMBER	ALL STUCTURAL MEMBERS, JOISTS, RAFTERS, ETC. TO BE #2 GRADE LUMBER (DOUGLAS FIR-LARCH, HEM-FIR, SOUTHERN PINE OR SPRUCE PINE-FIR) WITH A MIN. FIBER STRESS OF 850 P.S.I. UNLESS NOTED OTHERWISE
PLYWOOD	CDX, PANEL INDEX
LVL, PSL, LSL	Fb = 2600 Fv = 285 E x 10^6 = 1.9 Fc⊥ = 750
MASONRY	ASTM C90, GRADE N-1, Fm = 1350 PSI
MORTAR	ASTM C270, TYPE S
GROUT	Fc = 2000 PSI ASTM C476
CONCRETE	Fc =2500 PSI MIN. (FOOTINGS, BASEMENT SLAB) Fc =3500 PSI MIN. (GARAGE SLAB, PORCH SLAB, & POURED FOUNDATION WALLS)
BOLTS	ASTM A307, Fy = 33 ksi



IF STAIR IS MORE THAN 30 IN. ABOVE THE FLOOR BELOW AT ANY POINT OF THE STAIR'S FLIGHT, A GUARD IS REQUIRED ALONG THE OPEN SIDE.

HANDRAIL ASSEMBLIES AND GUARDS SHALL BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 POUNDS, APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP, AND HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURES TO TRANSFER THIS LOADING TO APPROPRIATE STRUCTURAL ELEMENTS OF THE BUILDING PER SECTION 1607.7.1.1 OF THE NYS BUILDING CODE.

STAIRWAY GUARD REQUIREMENTS

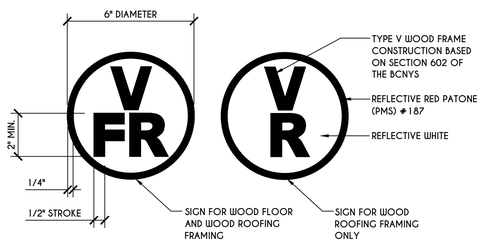


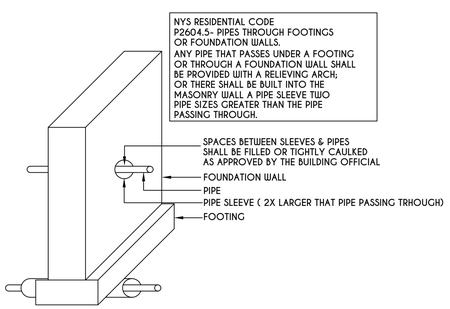
GARAGE NARROW WALL BRACING DETAIL

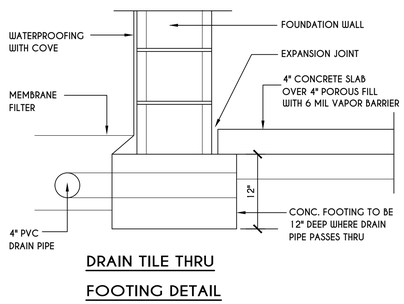
FIGURE R602.10.6.2

TRUSS IDENTIFICATION:

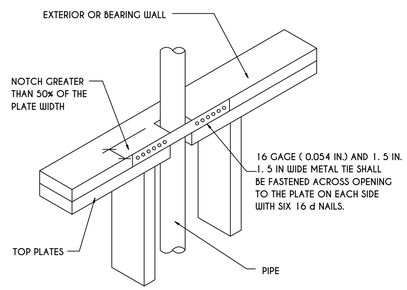
IDENTIFICATION OF FLOOR AND ROOF TRUSS CONSTRUCTION SHALL BE PROVIDED BY SIGN OR SYMBOL AND SHALL BE AFFIXED TO THE EXTERIOR WALL OF THE RESIDENTIAL STRUCTURE IN COMPLIANCE WITH 19 NYCRR PART 1265. RESIDENTIAL STRUCTURES WITH TRUSS TYPE CONSTRUCTION, PRE-ENGINEERED WOOD CONSTRUCTION AND/OR TIMBER CONSTRUCTION.







DRAIN TILE THRU FOOTING DETAIL



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7/16	CSB	CODE UPDATE

CLIENT/LOCATION:

BUILDER:

GENERAL NOTES

GLA PLAN 1644 R

drawn:	checked:
AMM	CDK
scale:	date:
AS NOTED	4/15
PROJECT:	sheet:
2382 A16	N-1

TABLE R404.1.1(2)

8-INCH MASONRY FOUNDATION WALLS WITH REINFORCING WHERE d > 5 INCHES[a]

WALL HEIGHT	HEIGHT OF UNBALANCED BACKFILL[e]	MINIMUM VERTICAL REINFORCEMENT[b, c]		
		SOIL CLASSES AND LATERAL SOIL LOAD[d] (psf PER FOOT BELOW GRADE)		
		GW, GP, SW, AND SP SOILS 30	GM, GS, SM-SC AND ML SOILS 45	SC, MH, ML-CL AND INORGANIC CL SOILS 60
6'-8"	4' (OR LESS)	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	5'	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	6'-8"	#4 @ 48" O.C.	#5 @ 48" O.C.	#6 @ 48" O.C.
7'-4"	4' (OR LESS)	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	5'	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	6'	#4 @ 48" O.C.	#5 @ 48" O.C.	#5 @ 48" O.C.
	7'-4"	#5 @ 48" O.C.	#6 @ 48" O.C.	#6 @ 40" O.C.
8'-0"	4' (OR LESS)	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	5'	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	6'	#4 @ 48" O.C.	#5 @ 48" O.C.	#5 @ 48" O.C.
	7'	#5 @ 48" O.C.	#6 @ 48" O.C.	#6 @ 40" O.C.
	8'	#5 @ 48" O.C.	#6 @ 48" O.C.	#6 @ 32" O.C.
8'-8"	4' (OR LESS)	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	5'	#4 @ 48" O.C.	#4 @ 48" O.C.	#5 @ 48" O.C.
	6'	#4 @ 48" O.C.	#5 @ 48" O.C.	#6 @ 48" O.C.
	7'	#5 @ 48" O.C.	#6 @ 48" O.C.	#6 @ 40" O.C.
	8'-8"	#6 @ 48" O.C.	#6 @ 32" O.C.	#6 @ 24" O.C.
9'-4"	4' (OR LESS)	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	5'	#4 @ 48" O.C.	#4 @ 48" O.C.	#5 @ 48" O.C.
	6'	#4 @ 48" O.C.	#5 @ 48" O.C.	#6 @ 48" O.C.
	7'	#5 @ 48" O.C.	#6 @ 48" O.C.	#6 @ 40" O.C.
	8'	#6 @ 48" O.C.	#6 @ 40" O.C.	#6 @ 24" O.C.
	9'-4"	#6 @ 40" O.C.	#6 @ 24" O.C.	#6 @ 16" O.C.
10'-0"	4' (OR LESS)	#4 @ 48" O.C.	#4 @ 48" O.C.	#4 @ 48" O.C.
	5'	#4 @ 48" O.C.	#4 @ 48" O.C.	#5 @ 48" O.C.
	6'	#4 @ 48" O.C.	#5 @ 48" O.C.	#6 @ 48" O.C.
	7'	#5 @ 48" O.C.	#6 @ 48" O.C.	#6 @ 32" O.C.
	8'	#6 @ 40" O.C.	#6 @ 32" O.C.	#6 @ 24" O.C.
	9'	#6 @ 40" O.C.	#6 @ 24" O.C.	#6 @ 16" O.C.
	10'	#6 @ 32" O.C.	#6 @ 16" O.C.	#6 @ 16" O.C.

a. MORTAR SHALL BE TYPE M OR S AND MASONRY SHALL BE LAID IN RUNNING BOND.
b. ALTERNATIVE REINFORCING BAR SIZES AND SPACINGS SHALL HAVE AN EQUIVALENT CROSS-SECTIONAL AREA OF REINFORCEMENT PER LINEAL FOOT OF WALL SHALL BE PERMITTED PROVIDED THE SPACING OF THE REINFORCEMENTDOES NOT EXCEED 72".
c. VERTICAL REINFORCEMENT SHALL BE GRADE 60 MINIMUM. THE DISTANCE FROM THE FACE OF THE SOIL SIDE OF THE WALL TO THE CENTER OF VERTICAL REINFORCEMENT SHALL BE AT LEAST 6.75".
d. SOIL CLASSES ARE IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM AND DESIGN LATERAL SOIL LOADS ARE FOR MOIST CONDITIONS WITHOUT HYDROSTATIC PRESSURE.
e. UNBALANCED BACKFILL HEIGHT IS THE DIFFERENCE IN HEIGHT BETWEEN THE EXTERIOR FINISH GROUND LEVEL AND THE LOWER OF THE TOP OF THE CONCRETE FOOTING THAT SUPPORTS THE FOUNDATION WALL OR THE INTERIOR FINISH GROUND LEVEL. WHERE AN INTERIOR CONCRETE SLAB-ON-GRADE IS PROVIDED AND IS IN CONTACT WITH THE INTERIOR SURFACE OF THE FOUNDATION WALL, MEASUREMENT OF THE UNBALANCED BACKFILL HEIGHT FROM THE EXTERIOR FINISH GROUND LEVEL TO THE TOP OF THE INTERIOR CONCRETE SLAB IS PERMITTED.

TABLE R404.1.1(3)

10-INCH MASONRY FOUNDATION WALLS WITH REINFORCING WHERE d > 6.75 INCHES[a]

WALL HEIGHT	HEIGHT OF UNBALANCED BACKFILL[e]	MINIMUM VERTICAL REINFORCEMENT[b, c]		
		SOIL CLASSES AND LATERAL SOIL LOAD[d] (psf PER FOOT BELOW GRADE)		
		GW, GP, SW, AND SP SOILS 30	GM, GS, SM-SC AND ML SOILS 45	SC, MH, ML-CL AND INORGANIC CL SOILS 60
6'-8"	4' (OR LESS)	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	5'	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	6'-8"	#4 @ 56" O.C.	#5 @ 56" O.C.	#5 @ 56" O.C.
7'-4"	4' (OR LESS)	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	5'	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	6'	#4 @ 56" O.C.	#4 @ 56" O.C.	#5 @ 56" O.C.
	7'-4"	#4 @ 56" O.C.	#5 @ 56" O.C.	#6 @ 56" O.C.
8'-0"	4' (OR LESS)	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	5'	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	6'	#4 @ 56" O.C.	#4 @ 56" O.C.	#5 @ 56" O.C.
	7'	#4 @ 56" O.C.	#5 @ 56" O.C.	#6 @ 56" O.C.
	8'	#5 @ 56" O.C.	#6 @ 56" O.C.	#6 @ 48" O.C.
8'-8"	4' (OR LESS)	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	5'	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	6'	#4 @ 56" O.C.	#4 @ 56" O.C.	#5 @ 56" O.C.
	7'	#4 @ 56" O.C.	#5 @ 56" O.C.	#6 @ 56" O.C.
	8'-8"	#5 @ 56" O.C.	#6 @ 56" O.C.	#6 @ 32" O.C.
9'-4"	4' (OR LESS)	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	5'	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	6'	#4 @ 56" O.C.	#5 @ 56" O.C.	#5 @ 56" O.C.
	7'	#4 @ 56" O.C.	#5 @ 56" O.C.	#6 @ 56" O.C.
	8'	#5 @ 56" O.C.	#6 @ 56" O.C.	#6 @ 40" O.C.
	9'-4"	#6 @ 56" O.C.	#6 @ 40" O.C.	#6 @ 24" O.C.
10'-0"	4' (OR LESS)	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	5'	#4 @ 56" O.C.	#4 @ 56" O.C.	#4 @ 56" O.C.
	6'	#4 @ 56" O.C.	#5 @ 56" O.C.	#5 @ 56" O.C.
	7'	#5 @ 56" O.C.	#6 @ 56" O.C.	#6 @ 48" O.C.
	8'	#5 @ 56" O.C.	#6 @ 48" O.C.	#6 @ 40" O.C.
	9'	#6 @ 56" O.C.	#6 @ 40" O.C.	#6 @ 24" O.C.
	10'	#6 @ 48" O.C.	#6 @ 32" O.C.	#6 @ 24" O.C.

a. MORTAR SHALL BE TYPE M OR S AND MASONRY SHALL BE LAID IN RUNNING BOND.
b. ALTERNATIVE REINFORCING BAR SIZES AND SPACINGS SHALL HAVE AN EQUIVALENT CROSS-SECTIONAL AREA OF REINFORCEMENT PER LINEAL FOOT OF WALL SHALL BE PERMITTED PROVIDED THE SPACING OF THE REINFORCEMENTDOES NOT EXCEED 72".
c. VERTICAL REINFORCEMENT SHALL BE GRADE 60 MINIMUM. THE DISTANCE FROM THE FACE OF THE SOIL SIDE OF THE WALL TO THE CENTER OF VERTICAL REINFORCEMENT SHALL BE AT LEAST 6.75".
d. SOIL CLASSES ARE IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM AND DESIGN LATERAL SOIL LOADS ARE FOR MOIST CONDITIONS WITHOUT HYDROSTATIC PRESSURE.
e. UNBALANCED BACKFILL HEIGHT IS THE DIFFERENCE IN HEIGHT BETWEEN THE EXTERIOR FINISH GROUND LEVEL AND THE LOWER OF THE TOP OF THE CONCRETE FOOTING THAT SUPPORTS THE FOUNDATION WALL OR THE INTERIOR FINISH GROUND LEVEL. WHERE AN INTERIOR CONCRETE SLAB-ON-GRADE IS PROVIDED AND IS IN CONTACT WITH THE INTERIOR SURFACE OF THE FOUNDATION WALL, MEASUREMENT OF THE UNBALANCED BACKFILL HEIGHT FROM THE EXTERIOR FINISH GROUND LEVEL TO THE TOP OF THE INTERIOR CONCRETE SLAB IS PERMITTED.

TABLE R404.1.1(4)

10-INCH MASONRY FOUNDATION WALLS WITH REINFORCING WHERE d > 8.75 INCHES[a]

WALL HEIGHT	HEIGHT OF UNBALANCED BACKFILL[e]	MINIMUM VERTICAL REINFORCEMENT[b, c]		
		SOIL CLASSES AND LATERAL SOIL LOAD[d] (psf PER FOOT BELOW GRADE)		
		GW, GP, SW, AND SP SOILS 30	GM, GS, SM-SC AND ML SOILS 45	SC, MH, ML-CL AND INORGANIC CL SOILS 60
6'-8"	4' (OR LESS)	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	5'	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	6'-8"	#4 @ 72" O.C.	#4 @ 72" O.C.	#5 @ 72" O.C.
7'-4"	4' (OR LESS)	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	5'	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	6'	#4 @ 72" O.C.	#4 @ 72" O.C.	#5 @ 72" O.C.
	7'-4"	#4 @ 72" O.C.	#5 @ 72" O.C.	#6 @ 72" O.C.
8'-0"	4' (OR LESS)	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	5'	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	6'	#4 @ 72" O.C.	#4 @ 72" O.C.	#5 @ 72" O.C.
	7'	#4 @ 72" O.C.	#5 @ 72" O.C.	#6 @ 72" O.C.
	8'	#5 @ 72" O.C.	#6 @ 72" O.C.	#6 @ 64" O.C.
8'-8"	4' (OR LESS)	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	5'	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	6'	#4 @ 72" O.C.	#4 @ 72" O.C.	#5 @ 72" O.C.
	7'	#4 @ 72" O.C.	#4 @ 72" O.C.	#6 @ 72" O.C.
	8'-8"	#5 @ 72" O.C.	#5 @ 72" O.C.	#6 @ 48" O.C.
9'-4"	4' (OR LESS)	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	5'	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	6'	#4 @ 72" O.C.	#5 @ 72" O.C.	#5 @ 72" O.C.
	7'	#4 @ 72" O.C.	#5 @ 72" O.C.	#6 @ 72" O.C.
	8'	#5 @ 72" O.C.	#6 @ 72" O.C.	#6 @ 56" O.C.
	9'-4"	#6 @ 72" O.C.	#6 @ 48" O.C.	#6 @ 40" O.C.
10'-0"	4' (OR LESS)	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	5'	#4 @ 72" O.C.	#4 @ 72" O.C.	#4 @ 72" O.C.
	6'	#4 @ 72" O.C.	#5 @ 72" O.C.	#5 @ 72" O.C.
	7'	#5 @ 72" O.C.	#5 @ 72" O.C.	#6 @ 72" O.C.
	8'	#5 @ 72" O.C.	#6 @ 72" O.C.	#6 @ 48" O.C.
	9'	#6 @ 72" O.C.	#6 @ 56" O.C.	#6 @ 40" O.C.
	10'	#6 @ 64" O.C.	#6 @ 40" O.C.	#6 @ 32" O.C.

a. MORTAR SHALL BE TYPE M OR S AND MASONRY SHALL BE LAID IN RUNNING BOND.
b. ALTERNATIVE REINFORCING BAR SIZES AND SPACINGS SHALL HAVE AN EQUIVALENT CROSS-SECTIONAL AREA OF REINFORCEMENT PER LINEAL FOOT OF WALL SHALL BE PERMITTED PROVIDED THE SPACING OF THE REINFORCEMENTDOES NOT EXCEED 72".
c. VERTICAL REINFORCEMENT SHALL BE GRADE 60 MINIMUM. THE DISTANCE FROM THE FACE OF THE SOIL SIDE OF THE WALL TO THE CENTER OF VERTICAL REINFORCEMENT SHALL BE AT LEAST 6.75".
d. SOIL CLASSES ARE IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM AND DESIGN LATERAL SOIL LOADS ARE FOR MOIST CONDITIONS WITHOUT HYDROSTATIC PRESSURE.
e. UNBALANCED BACKFILL HEIGHT IS THE DIFFERENCE IN HEIGHT BETWEEN THE EXTERIOR FINISH GROUND LEVEL AND THE LOWER OF THE TOP OF THE CONCRETE FOOTING THAT SUPPORTS THE FOUNDATION WALL OR THE INTERIOR FINISH GROUND LEVEL. WHERE AN INTERIOR CONCRETE SLAB-ON-GRADE IS PROVIDED AND IS IN CONTACT WITH THE INTERIOR SURFACE OF THE FOUNDATION WALL, MEASUREMENT OF THE UNBALANCED BACKFILL HEIGHT FROM THE EXTERIOR FINISH GROUND LEVEL TO THE TOP OF THE INTERIOR CONCRETE SLAB IS PERMITTED.

TABLE R404.1.1(5)

CONCRETE FOUNDATION WALLS[h, i, j, k]

MAXIMUM WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT[b] (FEET)	MINIMUM VERTICAL REINFORCEMENT SIZE & SPACING[c, d, e, f, l]											
		SOIL CLASSES[a] AND DESIGN LATERAL SOIL (psf PER FOOT OF DEPTH)											
		GW, GP, SW, AND SP 30				GM, GS, SM-SC AND ML 45				SC, MH, ML-CL AND INORGANIC CL 60			
		MIMIMUM WALL THICKNESS (INCHES)											
		5.5	7.5	9.5	11.5	5.5	7.5	9.5	11.5	5.5	7.5	9.5	11.5
5	4	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	5	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
6	4	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	5	PC	PC	PC	PC	PC	PC [g]	PC	PC	#4 @35"	PC [g]	PC	PC
	6	PC	PC	PC	PC	#5 @48"	PC	PC	PC	#5 @36"	PC	PC	PC
7	4	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	5	PC	PC	PC	PC	PC	PC	PC	PC	#5 @47"	PC	PC	PC
	6	PC	PC	PC	PC	#5 @42"	PC	PC	PC	#6 @43"	#5 @48"	PC [g]	PC
	7	#5 @46"	PC	PC	PC	#6 @42"	#5 @46"	PC [g]	PC	#6 @34"	#6 @48"	PC	PC
8	4	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	5	PC	PC	PC	PC	#4 @38"	PC [g]	PC	PC	#5 @43"	PC	PC	PC
	6	#4 @37"	PC [g]	PC	PC	#5 @37"	PC	PC	PC	#6 @37"	#6 @43"	PC [g]	PC
	7	#5 @40"	PC	PC	PC	#6 @37"	#5 @41"	PC	PC	#6 @34"	#6 @43"	PC	PC
	8	#6 @43"	#5 @ 47"	PC [g]	PC	#6 @34"	#6 @43"	PC	PC	#6 @27"	#6 @32"	#6 @44"	PC
9	4	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	5	PC	PC	PC	PC	#4 @35"	PC [g]	PC	PC	#5 @40"	PC	PC [e]	PC
	6	#4 @34"	PC [g]	PC	PC	#6 @48"	PC	PC	PC	#6 @36"	#5 @39"	PC [g]	PC
	7	#5 @36"	PC	PC	PC	#6 @34"	#5 @37"	PC	PC	#6 @33"	#6 @38"	#5 @37"	PC [g]
	8	#6 @38"	#5 @ 41"	PC [g]	PC	#6 @33"	#6 @38"	#5 @37"	PC [g]	#6 @24"	#7 @39"	#6 @39"	#4 @48"[h]
	9	#6 @34"	#6 @ 46"	PC	PC	#6 @26"	#7 @41"	#6 @41"	PC	#6 @19"	#7 @31"	#7 @41"	#6 @39"
10	4	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC	PC
	5	PC	PC	PC	PC	#4 @33"	PC [g]	PC	PC	#5 @38"	PC	PC	PC
	6	#5 @48"	PC [g]	PC	PC	#6 @45"	PC	PC	PC	#6 @34"	PC	PC	PC
	7	#6 @47"	PC	PC	PC	#6 @34"	#6 @ 48"	PC	PC	#6 @30"	#6 @35"	#7 @48"	PC [g]
	8	#6 @34"	#5 @ 38"	PC	PC	#6 @30"	#7 @ 47"	#6 @47"	PC [g]	#6 @22"	#6 @35"	#7 @48"	#6 @45"[h]
	9	#6 @34"	#6 @ 41"	#4 @48"	PC [g]	#6 @23"	#7 @37"	#7 @48"	#4 @48"[h]	DR	#6 @22"	#7 @37"	#7 @47"
	10	#6 @28"	#7 @ 45"	#6 @45"	PC	DR	#7 @31"	#7 @40"	#6 @38"	DR	#6 @22"	#7 @30"	#7 @36"

a. SOIL CLASSES ARE IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
b. UNBALANCED BACKFILL HEIGHT IS THE DIFFERENCE IN HEIGHT OF THE EXTERIOR & INTERIOR FINISHED GROUND LEVELS. WHERE THERE IS AN INTERIOR CONCRETE SLAB, THE UNBALANCED BACKFILL HEIGHT SHALL BE MEASURED FROM THE EXTERIOR FINISHED GROUND LEVEL TO THE TOP OF THE INTERIOR CONCRETE SLAB.
c. THE SIZE & SPACING OF VERTICAL REINFORCEMENT SHOWN IN THE TABLE IS BASED ON THE USE OF REINFORCEMENT WITH A MINIMUM YIELD STRENGTH OF 60,000 psi. VERTICAL REINFORCEMENT WITH A MINIMUM YIELD STRENGTH OF 40,000 psi OR 50,000 psi IS PERMITTED, PROVIDED THE SAME SIZE BAR IS USED & THE SPACING SHOWN IN THE TABLE IS REDUCED BY MULTIPLYING THE SPACING BY 0.67 OR 0.83, REPECTIVELY.
d. VERTICAL REINFORCEMENT, WHEN REQUIRED, SHALL BE PLACED NEAREST THE INSIDE FACE OF THE WALL A DISTANCE d FROM THE OUTSIDE FACE (SOIL SIDE) OF THE WALL. THE DISTANCE d IS EQUAL TO THE WALL THICKNESS, t, MINUS 1.25" PLUS ONE-HALF THE BAR DIAMETER, db (d=t- (1.25 + db/2). THE REINFORCEMENT SHALL BE PLACED WITHIN A TOLERANCE OF +/- 3/8" WHERE d IS LASS THAN OR EQUAL TO 7", OR +/- 1/2" WHERE d IS GREATER THAN 8".
e. IN LIEU OF THE REINFORCEMENT SHOWN, SMALLER REINFORCING BAR SIZES & CLOSER SPACINGS RESULTING IN AN EQUIVALENT CROSS-SECTIONAL AREA OF REINFORCEMENT PER LINEAR FOOT OF WALL ARE PERMITTED.
f. CONCRETE COVER FOR REINFORCEMENT MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCEMENT MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS & SMALLER, & NOT LESS THAN 2" FOR LARGER BARS.
g. THE MINIMUM THICKNESS IS PERMITTED TO BE REDUCED 2", PROVIDED THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE f ' c, IS 4,000 psi.
h. A PLAIN CONCRETE WALL WITH A MINIMUM THICKNESS OF 11.5" IS PERMITTED, PROVIDED MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE f ' c, IS 3,500 psi.
i. CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF NOT LESS THAN 2,500 psi AT 28 DAYS, UNLESS A HIGHER STRENGTH IS REQUIRED BY NOTE g OR h.
j. "DR" MEANS DESIGN IS REQUIRED IN ACCORDANCE WITH ACI 318 OR ACI 332.
k. "PC" MEANS PLAIN CONCRETE.
l. WHERE VERTICAL REINFORCEMENT IS REQUIRED, HORIZONTAL REINFORCEMENT SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R404.4.6.2 FOR ICF FOUNDATION WALLS.

R401.4 SOIL TESTS.

IN AREAS LIKELY TO HAVE EXPANSIVE, COMPRESSIBLE, SHIFTING OR OTHER UNKNOWN SOIL CHARACTERISTICS, THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SOIL TEST TO DETERMINE THE SOIL'S CHARACTERISTICS AT A PARTICULAR LOCATION. THIS TEST SHALL BE MADE BY AN APPROVED AGENCY USING AN APPROVED METHOD.

R401.4.1 GEOTECHNICAL EVALUATION.

IN LIEU OF A COMPLETE GEOTECHNICAL EVALUATION, THE LOAD-BEARING VALUES IN TABLE R401.4.1 SHALL BE ASSUMED.

TABLE R401.4.1

PRESUMPTIVE LOAD-BEARING VALUES OF FOUNDATION MATERIALS[a]

CLASS OF MATERIALS	LOAD-BEARING PRESSURE (pounds per square foot)
CRYSTALLINE BEDROCK	12,000
SEDIMENTARY & FOLIATED ROCK	4,000
SANDY GRAVEL AND/OR GRAVEL (GW & GP)	3,000
SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, AND CLAYEY GRAVEL (SW, SP, SM, SC, GM, & GC)	2,000
CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CL, ML, MH, & CH)	1,500[b]

a. WHEN SOIL TESTS ARE REQUIRED BY SECTION R401.4, THE ALLOWABLE BEARING CAPACITIES OF THE SOIL SHALL BE PART OF THE RECOMMENDATIONS.
b. WHERE IN-PLACE SOILS WITH AN ALLOWABLE BEARING CAPACITY OF LESS THAN 1,500 psf ARE LIKELY TO BE PRESENT AT THE SITE, THE ALLOWABLE BEARING CAPACITY SHALL BE DETERMINED BY A SOILS INVESTIGATION.

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL	SOIL DESCRIPTION
GW	WELL-GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES
GP	POORLY GRADED GRAVELS OR GRAVEL SAND, LITTLE OR NO FINES
SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
SM	SILTY SAND, SAND-SILT MIXTURES
GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
SC	CLAYEY SANDS, SAND-CLAY MIXTURE MIXTURES
ML	INORGANIC SILTS & VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
PT	PEAT & OTHER HIGHLY ORGANIC SOILS

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