

GENERAL STRUCTURAL NOTES:

(REFER ONLY TO NOTES APPLICABLE TO THE PROJECT)

DESIGN CRITERIA

BUILDING CODES USED FOR DESIGN:
2018 MICHIGAN RESIDENTIAL CODE

FLOOR LIVE & DEAD LOADS:

- 40 PSF LIVE LOAD
- 15 PSF DEAD LOAD FOR WOOD, LINOLEUM & CARPET FLOORING
- 25 PSF DEAD LOAD FOR THIN SET CERAMIC FLOORING
- 35 PSF DEAD LOAD FOR MARBLE / GRANITE FLOORING

MINIMAL DEFLECTION CRITERIA:

- L/240 LIVE LOAD + L/180 TOTAL FOR ROOF COMPONENTS
- L/200 LIVE LOAD + L/360 TOTAL FOR FLOOR COMPONENTS WITH RIGID FLOORING (I.e. TILE)
- L/480 LIVE LOAD + L/360 TOTAL FOR FLOOR COMPONENTS WITH FLEXIBLE FLOORING (I.e. CARPET)

ROOF LIVE & SNOW LOADS:

- FLAT-ROOF SNOW LOAD $P_g = 30$ PSF
- FLAT-ROOF DEAD LOAD $D = 10$ PSF

WIND LOADS:

- BASIC WIND SPEED $V = 115$ MPH
- WIND IMPORTANCE FACTOR $I = 1.0$
- BUILDING CATEGORY B
- WIND EXPOSURE B

DESIGN STRENGTHS:

CLASS	STRENGTH AT 28 DAYS (PSI)	LOCATION
A	3,000	INTERIOR SLABS & WALLS
B	3,000	FOOTINGS & FOUNDATION WALLS
C	3,000	ARC-ENTRAINED EXTERIOR SLABS & WALLS

CONCRETE REINFORCEMENT: AT&M A615/A618M-01B (F_y + 60 KSI)

WELDED WIRE FABRIC: AT&M A188-01

STRUCTURAL STEEL: AT&M A307-02

ANCHOR RODS: ALTERNATIVELY - F1554-99 GR36 MAY BE USED

MASONRY: NORMAL WEIGHT $f_m = 1500$ PSI

FOUNDATIONS & EARTHWORK:

- WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN FOOTING EXCAVATIONS
- PROVIDE A MINIMUM OF 6 INCHES OF GRANULAR FILL BELOW ALL INTERIOR SLABS ON GRADE
- PROVIDE GRANULAR BACKFILL FOR BASEMENT WALLS. ALL BACKFILL SHALL BE WELL DRAINED
- THE FOUNDATION DESIGN IS BASED ON A SOIL BEARING CAPACITY OF 2500 PSF. OTHERS SHALL DETERMINE THE ACTUAL BEARING VALUE OF SOIL.
- ALL FOOTING EXCAVATIONS SHALL BE INSPECTED PRIOR TO CONCRETE PLACEMENT
- WHERE COMPACTION OF FILL IS SPECIFIED, COMPACTION OF FILL MATERIAL SHALL BE A MINIMUM 95% OF MAXIMUM DRY DENSITY
- BOTTOM OF EXTERIOR BUILDING FOOTINGS ARE TO BE AT LEAST 42 INCHES (3'-6") BELOW FINAL OUTSIDE GRADE REGARDLESS OF ELEVATION SHOWN ON PLAN
- ALL CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS AND ALL PIERS AND SPREAD FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR PIERS UNLESS OTHERWISE NOTED
- NO SLABS OR FOUNDATIONS SHALL BE PLACED INTO OR ADJACENT TO SUBGRADE CONTAINING WATER, ICE FROST OR ORGANIC MATERIAL
- WHERE FOUNDATION WALLS ARE TO HAVE SOIL PLACED ON BOTH SIDES, PLACE SOIL SIMULTANEOUSLY 50 AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

CONCRETE:

- THE REINFORCING STEEL CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ALL ACCESSORIES, CHAINS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS SHOWN OTHERWISE ON THE PLANS AND/OR DETAILS.
- REINFORCING STEEL SHALL BE AT&M A618 (GRADE 60).
- WELDED WIRE FABRIC SHALL CONFORM TO AT&M A188.
- CONCRETE REINFORCEMENT SHALL BE PLACED ACCORDING TO THE CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
- CONCRETE COVERAGE FOR REINFORCEMENT:

FOOTINGS	3"	CENTER OF SLAB
SLAB ON GRADE	2"	
WALLS EXPOSED TO EARTH	1 1/2"	
COLUMN TIES		
- COMPRESSION LAP SPICES FOR GRADE 60 BARS SHALL BE 30 BAR DIAMETER MINIMUM.
- TENSION LAP SPICES SHALL BE AS DETAILED. USE CLASS "B" SPICES UNLESS NOTED OTHERWISE.
- BAR LENGTHS SHOWN DO NOT INCLUDE HOOKS OR BENDS.
- CONCRETE AT THE TIME OF PLACEMENT SHALL HAVE A SLUMP OF 4" (+/-) 1" UNLESS A SUPER-PLASTICIZER AGENT IS USED.
- ALL OPENINGS IN CONCRETE WALLS SHALL HAVE (2) #4 x 4'-0" LONG BARS DIAGONALLY AT EACH CORNER.

MASONRY:

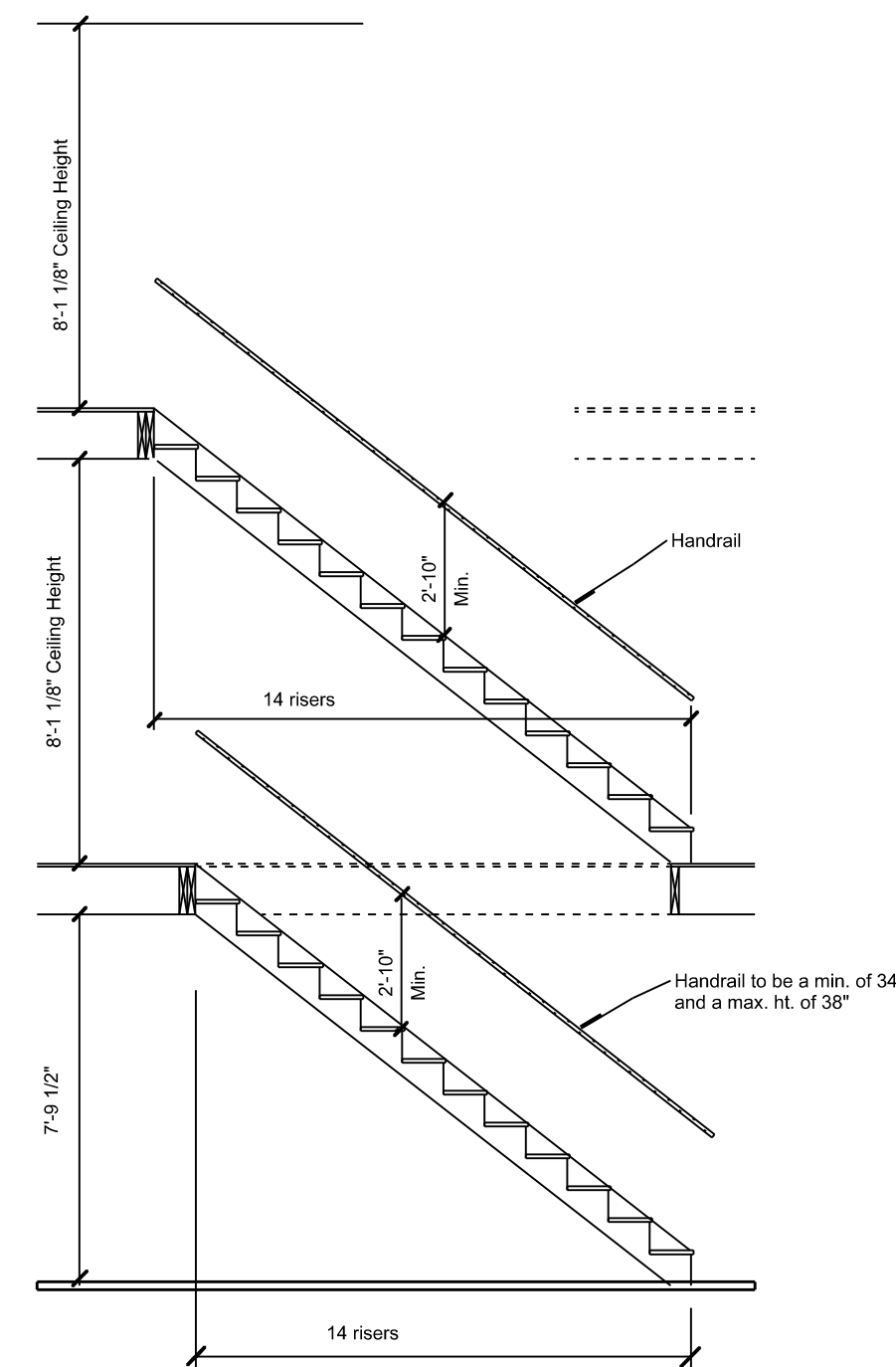
- GROUT FOR VERTICALLY REINFORCED MASONRY WALLS AND BOND BEAMS SHALL CONSIST OF: (1) PART CEMENT, (2/3) PARTS FINE AGGREGATE, (2) PARTS PEA GRAVEL, FC + 3,000 PSI AT 28 DAYS. GROUT SLUMP 8" TO 10". GROUT SOLID. ALL CELLS CONTAINING REINFORCING.
- MASONRY WALLS SHALL HAVE HORIZONTAL REINFORCING CONSISTING OF GALVANIZED REINFORCING.
- MASONRY WALLS SHALL HAVE HORIZONTAL REINFORCING CONSISTING OF GALVANIZED STANDARD WEIGHT #3 GAUGE EXPOSED 2/4 3/8 TRUSS TYPE OR EQUAL REINFORCING LOCATED AT EVERY OTHER COURSE UNLESS NOTED OTHERWISE.
- LAP ALL VERTICAL REINFORCING SPICES 48 BAR DIAMETERS; 24" FOR #4 BARS; 30" FOR #5 BARS AND 34" FOR #6 BARS.
- ANCHOR BEAMS AND LINTELS TO WALL.
- MASONRY WALLS SHALL BE LAID UP AND GROUTED IN 4-FOOT LIFTS (LOW LIFT GROUTING PROCEDURE PER ACI 302.1). IF CLEANOUTS ARE PROVIDED AT EACH GROUTED CORE, WALLS MAY BE GROUTED IN 8-FOOT LIFTS FOLLOWING THE HIGH-LIFT GROUTING PROCEDURE PER ACI 302.1.
- THE PROCEDURE OF ACI 340.1 FOR COLD WEATHER CONSTRUCTION SHALL BE ADHERED TO WHENEVER THE AIR OUTSIDE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT.

STRUCTURAL STEEL:

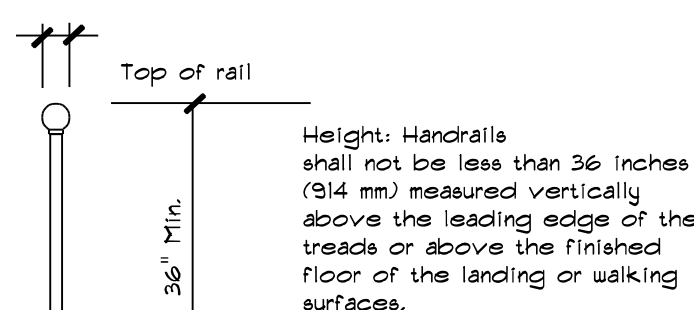
- YIELD STRESS AND TYPE OF STEEL:
 - FOR WIDE FLANGE SHAPES: AT&M A992 WITH YIELD STRESS OF 50,000 PSI.
 - FOR 'S' SHAPES, CHANNELS, ANGLES, BARS, PLATES AND RODS: AT&M A436 WITH YIELD STRESS OF 36,000 PSI.
 - FOR RECTANGULAR AND SQUARE TUBULAR SHAPES: AT&M A500 WITH YIELD STRESS OF 46,000 PSI.
- BOLTS: USE CARBON OR ALLOY STEEL AT&M A307, 3/4" DIAMETER OR LARGER IF REQUIRED BY CONNECTION DESIGN. ANCHOR BOLTS SHALL BE WEDGE STYLE ANCHOR, HLT1 K11K BOLT 3. NUTS: CARBON STEEL, MEETING AT&M A563.
- WASHERS: HARDENED STEEL WASHERS MEETING AT&M F436. AT&M A307 BOLTS MAY BE USED FOR WOOD TO WOOD CONNECTIONS AND STEEL LINTEL TO WOOD CONNECTIONS.
- ANCHOR RODS: AT&M F1554, GRADE 36.

MISCELLANEOUS:

- PRE-FABRICATED JOISTS SHALL BE DESIGNED TO SUPPORT THEIR OWN WEIGHT PLUS THE SUPERIMPOSED DEAD AND LIVE LOADS STATED IN THE GENERAL NOTES AND 2018 MRC. JOIST SERIES, MANUFACTURER, SPACING, BRACING AND DETAILS SHALL BE DESIGNATED BY THE FLOOR SYSTEM PROVIDER, SUCH THAT IT MEETS THE DESIGN CRITERIA HEREIN, AS A MINIMUM, THE CONTRACTOR SHALL SUBMIT TO THE DESIGNER FOR REVIEW, THE DESIGN LAYOUT AND CONNECTION CALCULATIONS BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN, PRIOR TO USE IN THE STRUCTURE.
- MIN LVL PROPERTIES SHALL BE: E + 2.0 x 10⁶ PSI, F_y + 2850 PSI, F_v + 285 PSI.
- MIN PSL COLUMN PROPERTIES SHALL BE: E + 2.0 x 10⁶ PSI, F_y + 2400 PSI, TRUS JOIST PARALLEL OR EQUAL.
- WALLS SHALL BE BRACED ACCORDING TO R602.10 OF THE 2009 MRC.
- TRUSSES SHALL BE BRACED IN ACCORDANCE WITH 8001.1 OCTOBER 2006 "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF THE METAL PLATE CONNECTED WOOD TRUSSES".
- ALL POINT LOADS SHALL BE CONTINUOUSLY BLOCKED THROUGHOUT THE STRUCTURE TO THE FOUNDATION OR SUPPORT BEAM.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- THE STRUCTURAL DESIGN IS BASED ON THE BUILDING IN ITS COMPLETED STATE. CONTRACTORS AND THEIR SUBCONTRACTORS SHALL TAKE WHATEVER PRECAUTIONS MADE NECESSARY TO WITHSTAND ALL HORIZONTAL AND VERTICAL LOADINGS THAT MAY BE ENCOUNTERED DURING THE CONSTRUCTION PRIOR TO THE COMPLETION OF THE BUILDING.
- DO NOT SCALE DRAWINGS.



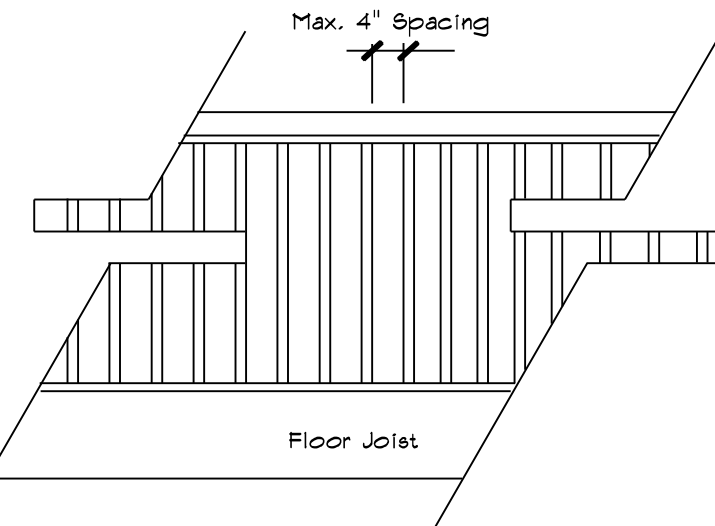
Diagrammatic Stair Detail



Height: Handrails shall not be less than 36 inches (914 mm) measured vertically above the leading edge of the treads or above the finished floor of the landing or walking surfaces.

Exceptions: Open sides of stairs shall have guards not less than 34" (864 mm) in height, measured vertically from the nosing of the treads.

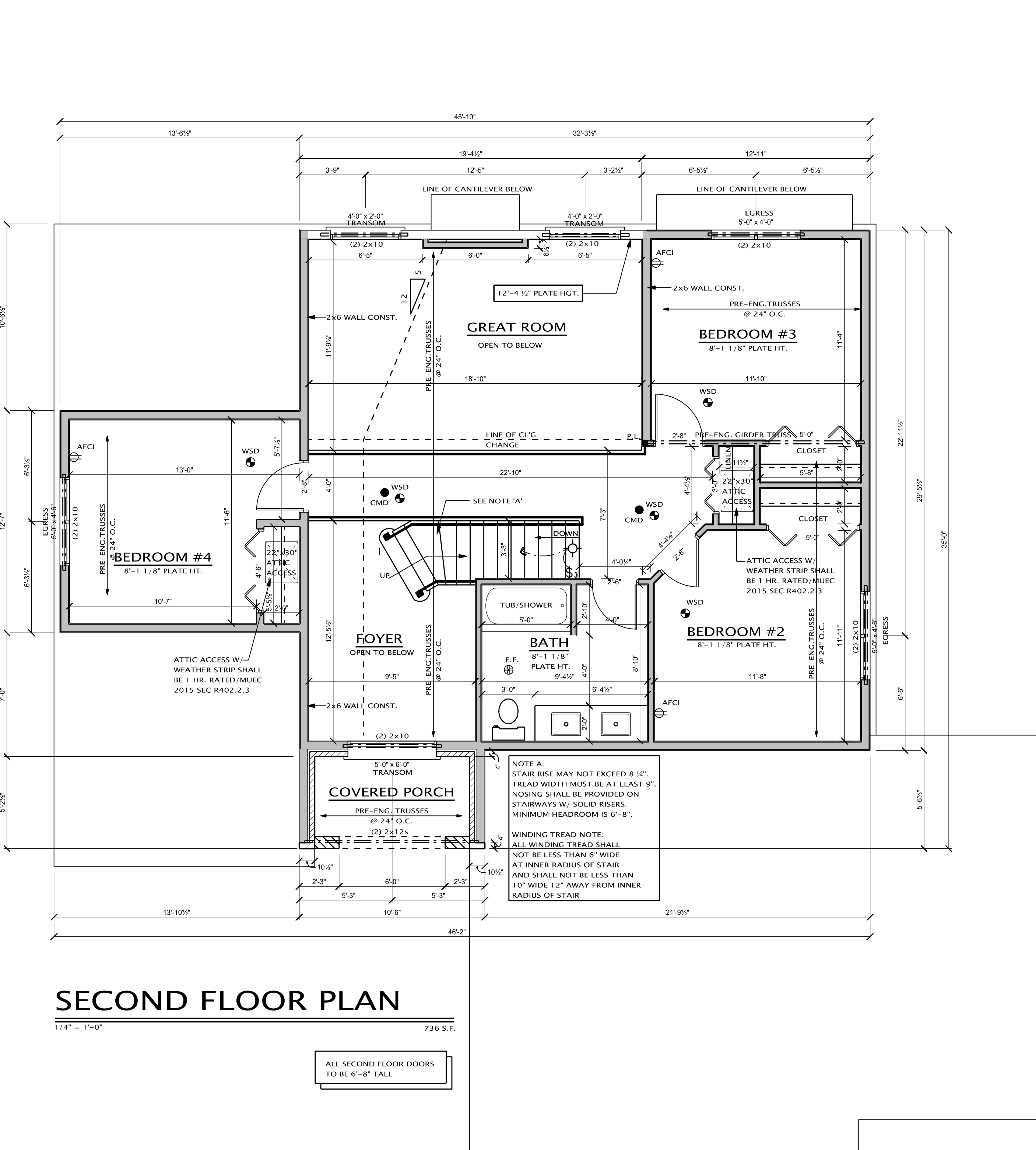
- Type I. All Stair shall have a circular cross section with an outside diameter of 1-1/4" (32 mm) and not greater than 2" (51 mm).
- Any other shape with a perimeter of at least 4 inches (100 mm), but not greater than 6-1/4 inches (159 mm) with the largest cross-sectional dimension not exceeding 2-1/4 inches (57 mm).
- Type II. Hand rails with a perimeter greater than 6-1/4" (160 mm) shall provide a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of 3/4" (19 mm) measured vertically from the tallest portion of the profile, and achieve a depth of at least 5/16" (8 mm) within 1/8" (2 mm) below the widest portion of the profile.



Typical Railing Detail

GENERAL NOTES

- ALL WORK TO COMPLY WITH ALL NATIONAL STATE AND LOCAL CODES, ORDINANCES, LAWS AND REGULATIONS THAT ARE APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY MISS D/O (1-800-482-7111) AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND CALL FOR REQUIRED INSPECTIONS.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATIONS, ELEVATIONS AND DETAILS OF THE EXISTING CONDITIONS THAT AFFECT THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS, SIZES, LOCATIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL BRACING, BRACING AND UNDERPINNING AND ALL MEANS REQUIRED TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY AND STABILITY OF ALL NEW CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATIONS AND DETAILS OF THE EXISTING CONDITIONS OF THE BUILDING INCLUDING UTILITIES, SERVICES, ETC. AND SHALL BE FULLY RESPONSIBLE FOR ANY UNAUTHORIZED DISRUPTION TO THE OWNER'S NORMAL USE OF UTILITIES, SERVICES, AND THE SURROUNDING FACILITIES.
- THE CONTRACTOR/OWNER SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE CONSTRUCTION DOCUMENTS, SIZES AND LOCATIONS OF ANY DISCREPANCIES IN DIMENSIONS, SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR/OWNER SHALL INDICATE TO THE ARCHITECT FROM ERRORS AND OMISSIONS WHICH CAN OR MAY OCCUR DURING THE PREPARATION OF THESE DOCUMENTS.



SECOND FLOOR PLAN

1/4" = 1'-0" 736 S.F.

ALL SECOND FLOOR DOORS TO BE 6'-8" TALL

SMOKE DETECTORS & CARBON MONOXIDE DETECTOR

- SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
- IN EACH SLEEPING ROOM
 - OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS
 - ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS BUT NOT INCLUDING CRAWL SPACES OR UNINHABITABLE ATTICS
- ALL SMOKE DETECTORS SHALL BE INTERCONNECTED AND HAVE A BATTERY BACKUP.

CARBON MONOXIDE DETECTORS SHALL BE LOCATED IN THE NEAR VICINITY OF EACH BEDROOM AND IN BASEMENT 15'-0" FROM FUEL FIRED OR HEATED UNIT.

HARD WIRED AND BATTERY BACK-UP. BACK UP MRC 2015 SEC R 315

NOTE: EGRESS WINDOWS

- EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE WINDOW OR EXTERIOR DOOR APPROVED FOR EMERGENCY ESCAPE OR RESCUE. EACH EGRESS WINDOW SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE NET CLEAR OPENING SHALL BE AT LEAST 24 INCHES IN HEIGHT AND AT LEAST 20 INCHES IN WIDTH. THE BOTTOM OF THE CLEAR OPENING SHALL NOT BE MORE THAN 44 INCHES ABOVE THE FLOOR. (EXCEPTION: THE MINIMUM NET CLEAR OPENING FOR GRADE FLOOR WINDOWS SHALL BE 5 SQUARE FEET.)

NOTE: PROVIDE TEMPERED GLASS :

- WHEN GLASS IS 18" OR LOWER A.F.F.
- ANY DOOR THAT HAS GLASS CONSTRUCTION
- WITHIN 36" OF A DOOR OR SWING
- WITHIN THE NEAR VICINITY OF TUB OR SHOWER AND LESS THAN 60" FROM FLOOR OR PLATFORM SURFACE.
- WINDOWS IN STAIR LANDINGS 60" OR LESS A.F.F.

ARCH FAULT CIRCUIT INTERRUPTER

ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT SINGLE PHASE 15 & 20 AMP. OUTLETS INSTALLED IN DWELLING UNIT BEDRM. SHALL BE PROTECTED BY ARCH-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION IN THE ENTIRE CIRCUIT E3802.11.

OPERABLE WINDOW NOTE:

ALL WINDOWS THAT ARE OPERABLE AND THE BOTTOM OF THE WINDOW IS 72" OR MORE ABOVE GRADE, SHALL BE 24" ABOVE FINISH FLOOR TO THE BOTTOM OF THE WINDOW.



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PROJECT

THE MARGARET
VERIFY ADDRESS W/ SITE PLAN

BUILDER/CLIENT
DEL VALLO
CONSTRUCTION

PRELIMINARY
CONSTRUCTION
PERMIT
SHEET TITLE:
SECOND FLOOR PLAN

DATE: 02-24-2023
03-01-2023
03-13-2023

DRAWN BY:
J.V.C.

CHECKED BY:
J.M.P.

JOB NUMBER:
23 - 119

SHEET NUMBER: