

NOTE:
ALL OPENINGS IN FND WALL
TO BE *R.O.+3/4" HT & WIDTH
W/FLUSH HDRS U.N.O. PER
PLAN. REF. ARCH.

COLUMN PAD SCHEDULE:

P1: 42"x42"x12" CIP
W/ #4 BARS @ 9"
O/C E.W.

P2: 36"x36"x12" CIP
W/ #4 BARS @ 9"
O/C E.W.

P3: 60"x60"x12" CIP
W/ #4 BARS @ 9"
O/C E.W.

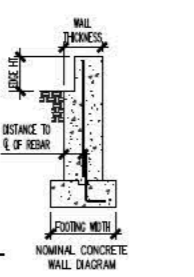
P4: 24"x24"x12" CIP
W/ #4 BARS @ 9"
O/C E.W.

**ASSUMES 2000 PSF
SOIL BEARING PRESSURE
PER GEOTECH REPORT**

8" FND WALL ON A 16"x8"
CONC. FOOTING AT LAST RISER
OF AREAWAY. VERIFY FINAL
LOCATION AND HEIGHT IN FIELD

8" WELLED EXIT WALL
(VERIFY HEIGHT IN FIELD)

9"x9" BOX
DRAWN TO
DRAIN TO SUMP



NOTES:

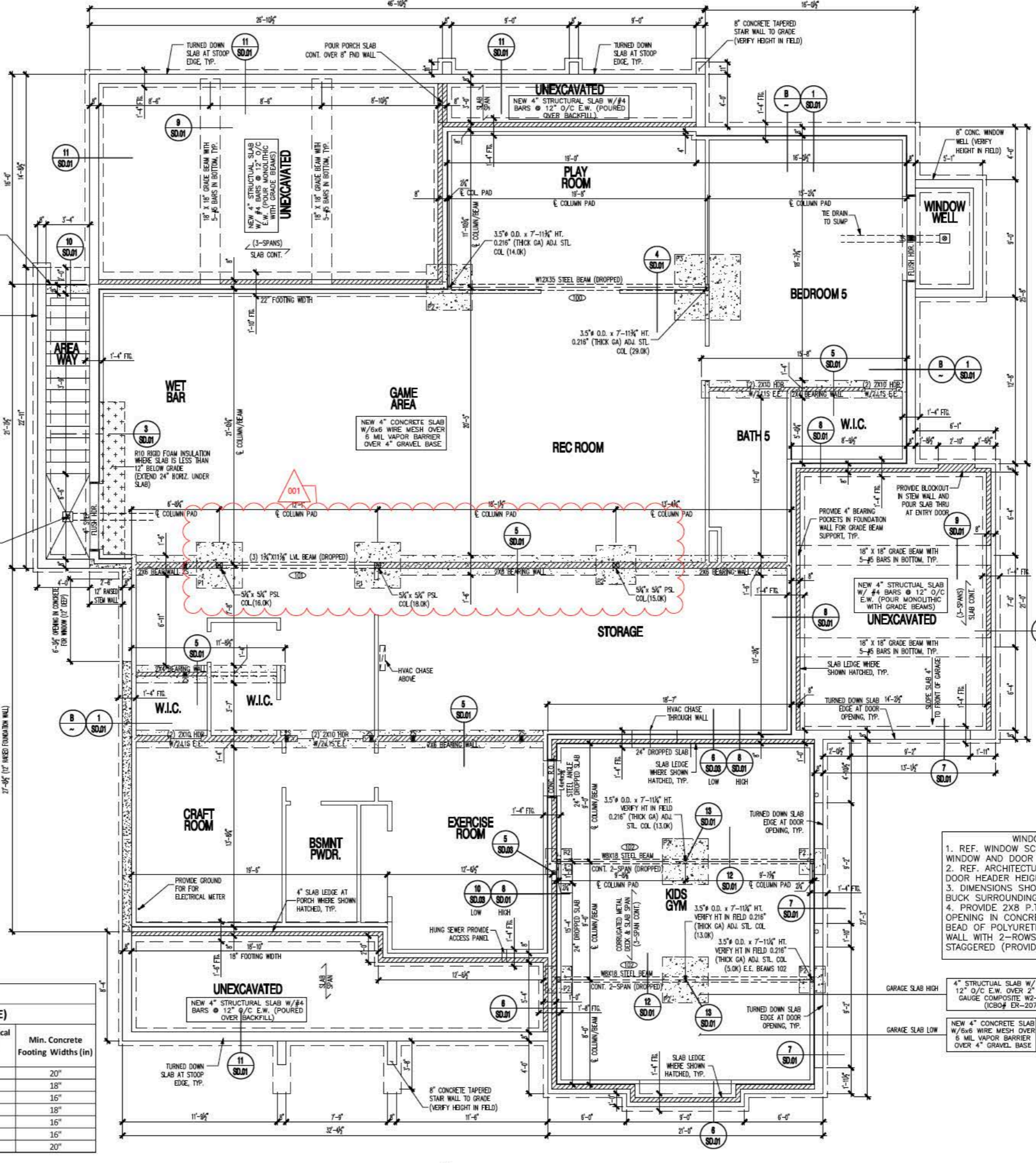
- TABLE REINFORCEMENT MEETS OR EXCEEDS REQUIREMENTS SPECIFIED BY TABLE A.4 OF THE ACI 332-14, RESIDENTIAL CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- TABLE ASSUMES A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF ($f'_c = 3000$ psi)
- TABLE ASSUMES A MINIMUM YIELD STRENGTH OF REBAR ($F_y = 60,000$ psi)
- THE TERM "PLAIN" REFERS TO CONCRETE WHERE NO VERTICAL REINFORCEMENT IS REQUIRED IN SOUD WALL AREAS
- FOR ALL WALL CONDITIONS: HORIZONTAL REINFORCEMENT SHALL BE PROVIDED @ 24" O/C AND PLACED TOWARDS RETAINED EARTH SIDE
- AT STEM WALL CONDITIONS WHERE THICKNESS OF WALL IS REDUCED BY 4", PROVIDE ONE (1) #4 VERTICAL REBAR @ 24" O/C AND EXTEND 12" MIN. INTO FULL THICKNESS WALL
- MAY INCREASE WALL THICKNESS TO 13.5" IF REQUIRED FOR BRICK OR SLAB LEDGE. FOOTING WIDTH = 22"

FND WALL REINFORCEMENT SCHEDULE AND TYPICAL WALL AND FOOTING DIAGRAM

FOUNDATION WALL REINFORCEMENT SCHEDULE 1,2,3

SOIL EQUIVALENT LATERAL FLUID PRESSURE (60 PCF ACTIVE PRESSURE)

Wall Height (ft)	Grade Height From Bottom of Wall (ft)	Maximum Brick Ledge Height (in)	Minimum Wall Thickness (in)	Distance from Earth Side Face of Wall to CL of Bar (in)	Spacing of Vertical Wall Renif. (#4 Bars)	Min. Concrete Footing Widths (in)
9'	8'	24" ⁶	11.5" ⁷	8.75"	Plain ⁴	20"
9'	8'	24" ⁶	9.5"	6.75"	16" o/c	18"
9'	8'	24" ⁶	7.5"	5.75"	12" o/c	16"
9'	7'	24" ⁶	9.5"	6.75"	Plain ⁴	18"
9'	7'	24" ⁶	7.5"	5.75"	16" o/c	16"
9'	6' and less	24" ⁶	7.5"	5.75"	Plain ⁴	16"
9'	6' and less	48"	11.5" ⁷	8.75"	Plain ⁴	20"



REFERENCE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN

REFERENCE STRUCTURAL COVERSHEET FOR FOUNDATION AND FRAMING INFORMATION, WINDBRACING SCHEDULE AND HANGER SCHEDULE AS APPLICABLE

NOTE: FOUNDATION WALLS ASSUMED TO BE 8" C.I.P. CONCRETE WALLS, TYPICAL ON A 16"x8" CONT. CONCRETE FOOTING (MIN. 24" BELOW GRADE), U.N.O. PER PLAN. REF. DTL. B/~ FOR REINF. SCHEDULE (60 PCF) AND FOR APPLICABLE FOOTING SIZES WHERE WALL THICKNESS MAY VARY.

NOTE: ALL CONCRETE OPENINGS TO HAVE FLUSH HEADERS IN FLOOR FRAMING ABOVE, U.N.O. (REF. FRAMING PLAN)

*WINDOW AND DOOR NOTES:
1. REF. WINDOW SCHEDULE PER BUILDER SPECS FOR WINDOW AND DOOR ROUGH OPENING (R.O.) DIMENSION
2. REF. ARCHITECTURAL ELEVATIONS FOR WINDOW AND DOOR HEADER HEIGHTS IN CONC.
3. DIMENSIONS SHOWN BASED ON SINGLE 2X8 WOOD BUCK SURROUNDING OPENINGS.

EXTERIOR BEARING WALLS AND FOOTINGS:
8" C.I.P. CONCRETE BASEMENT WALL (REF. DETAIL B/~ FOR WALL REINF. AND FOR FOOTING SIZES WHERE WALL THICKNESS MAY VARY) ON A 16"x8" CONT. CONCRETE FOOTING (MIN 24" BELOW GRADE) UNLESS SIZE IS NOTED OTHERWISE PER PLAN. REF. APPLICABLE DETAILS.

INTERIOR BEARING WALLS AND FOOTINGS:
2X (4 OR 6) STUD WALL W/ STUDS @ 16" O/C ON A 16"x8" CONC. FOOTINGS (OR TURNED DOWN SLAB) UNLESS SIZE IS NOTED OTHERWISE PER PLAN. REF. APPLICABLE DETAILS.

WINDOW AND DOOR NOTES:
1. REF. WINDOW SCHEDULE PER BUILDER SPECS FOR WINDOW AND DOOR ROUGH OPENING (R.O.) DIMENSION
2. REF. ARCHITECTURAL ELEVATIONS FOR WINDOW AND DOOR HEADER HEIGHTS IN CONC.
3. DIMENSIONS SHOWN BASED ON SINGLE 2X8 WOOD BUCK SURROUNDING OPENINGS.
4. PROVIDE 2X8 P.T. WOOD BUCKS AT ALL SIDES OF OPENING IN CONCRETE WALL, TYP., SET ON CONT. BEAD OF POLYURETHANE ADHESIVE AND SECURE TO WALL WITH 2-ROWS OF GALV. CUT NAILS @ 12" O/C STAGGERED (PROVIDE HEAD FLASHING AS NECESSARY)

4" STRUCTURAL SLAB W/ #4 BARS @ 12" O/C E.W. OVER 2" DEEP X 18 GAUGE COMPOSITE W2-FORMLOCK (ICBO® ER-2078P)

NEW 4" CONCRETE SLAB W/6x6 WIRE MESH OVER 6 MIL VAPOR BARRIER OVER 4" GRAVEL BASE

MOMENT
ENGINEERING & DESIGN

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24x36 Plotted at 1/4"=1'-0" - 12x18 Plotted at 1/8" = 1'-0"

FISHER CUSTOM HOMES - 430 AYR HILL AVENUE

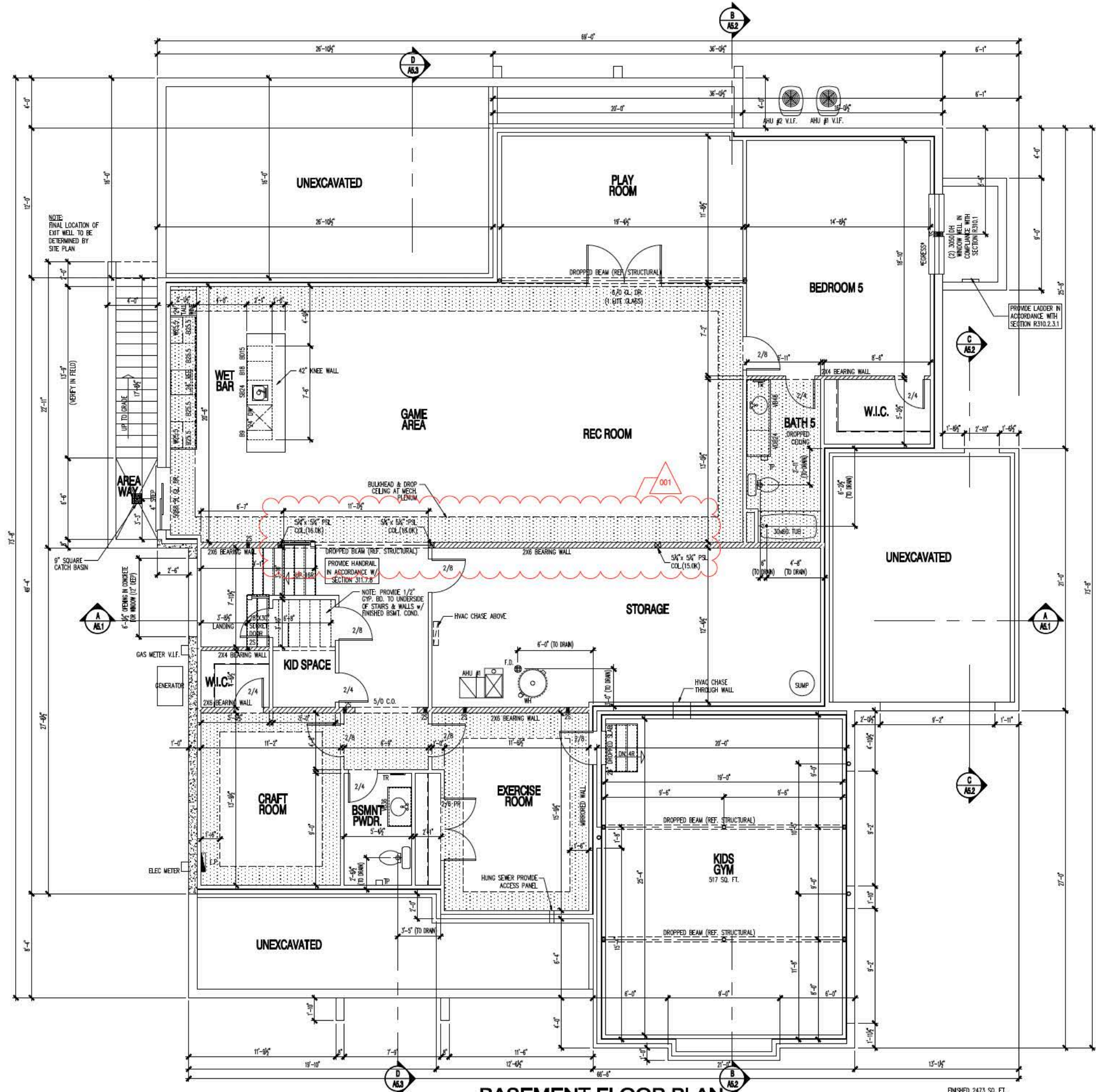
FOUNDATION PLAN

COMMONWEALTH OF VIRGINIA
SHAWN PATRICK KELLEY
Lic. No. 38524
PROFESSIONAL ENGINEER

DRAWN BY:
MCR
DATE: 05/24/23
REV. No. DATE
001 11/07/23

23-100

SHEET No.
FND



REFERENCE FOUNDATION PLAN SHEET "FND"
FOR ADDITIONAL DIMENSIONS AND
INFORMATION NOT SHOWN

NOTE:
STANDARD DOOR TRIM
RETURN IS 4" U.N.O.

NOTE: ALL DOORS TO
BE 7'-0" TALL U.N.O.

BASEMENT FLOOR PLAN

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

FINISHED 2473 SQ. FT.
KIDS PLAY GYM 517 SQ. FT.
STORAGE 411 SQ. FT.

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24x36 Plotted at 1/4"=1'-0" - 12x18 Plotted at 1/8" = 1'-0"

FISHER CUSTOM HOMES - 430 AYR HILL AVENUE
FINISHED BASEMENT PLAN



DRAWN BY:	MCR
DATE:	05/24/23
REV No.	DATE
001	11/07/23

23-100

SHEET No.
A01

REFERENCE WINDBRACING ANALYSIS SPREADSHEET IN CALC PACKAGE FOR WALL BRACING DESIGN DATA

CONTRACTOR TO PROVIDE FIRE EXTINGUISHER IN KITCHEN WITH A RATING OF 2-A-10-B-C

NOTE: STANDARD DOOR TRIM RETURN IS 4" U.N.O.

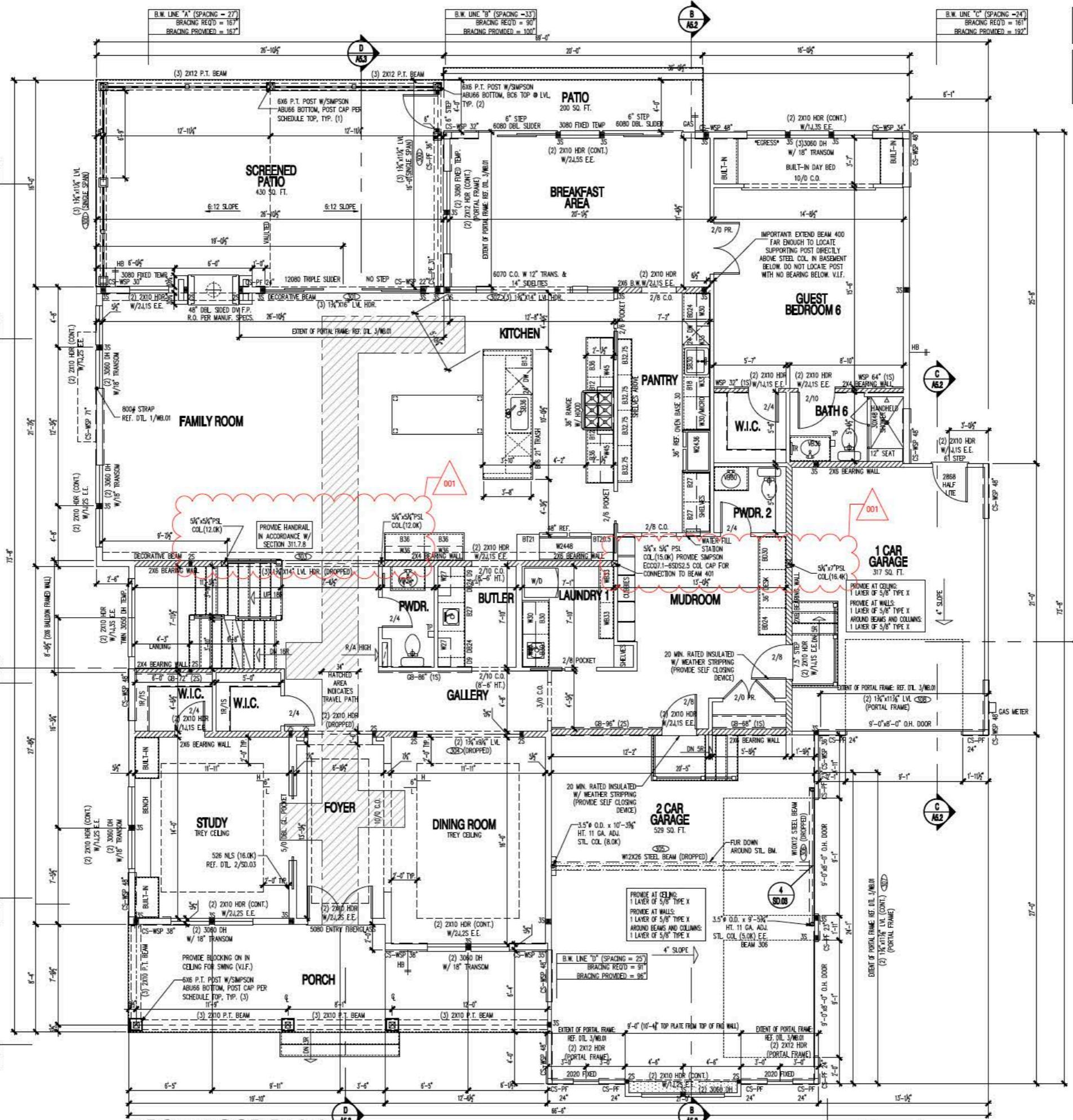
NOTE: ALL DOORS TO BE 8'-0" TALL U.N.O.

NOTE: ALL 4S OR 5S STUD PACKS TO BE NAILED PER DETAIL 2/SD.03, TYP.

GIRDER TRUSS LOCATIONS ARE FOR REFERENCE ONLY AND FINAL LOCATIONS SHOULD BE PER APPROVED SHOP DRAWING LAYOUT. ENSURE POSTS ARE LOCATED ACCORDINGLY UNDER GIRDERS.

NOTE: ALL 4S OR 5S STUD PACKS TO BE NAILED PER DETAIL 2/SD.03, TYP.

EXTERIOR DROPPED BEAM TO POST ATTACHMENT SCHEDULE:
3-PLY BEAM TO STUD PACK IN EXTERIOR WALL: USE A LUSC210Z-3 HANGER
2-PLY LVL BEAM TO STUD PACK IN EXTERIOR WALL: USE A HUC410 HANGER
6X6 POST W/ BEAM SPLITTING AT TOP: USE A CC4.62-5.50 POST CAP
6X6 POST @ BEAM END CONDITION OR CONTINUOUS SPAN BEAM: USE A BCS2-3/8 POST CAP
6X6 POST W/ 2-PLY LVL BEAM A TOP: USE A BC46 POST CAP



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

COFFER CEILING DETAIL
SCALE: 1" = 1'-0"

BRACED WALL LINE KEY
SCALE: 1/16" = 1'-0"

NOTE: REFERENCE PLAN FOR TEXT BOXES THAT INDICATE SPACING AND BRACING REQUIRED/PROVIDED PER BRACED WALL LINE
● NODES INDICATE INTERSECTION OR END POINTS

NOTE: WHERE BRACED WALL PANELS MEET ROOF TRUSSES, REF. DTL. 4/WB.01 FOR BLOCKING INSTALLATION, TYP.

B.W. LINE "5" (SPACING = 20")
BRACING REQ'D = 79"
BRACING PROVIDED = 114"

B.W. LINE "3" (SPACING = 24")
BRACING REQ'D = 315"
BRACING PROVIDED = 317"

B.W. LINE "4" (SPACING = 15")
BRACING REQ'D = 101"
BRACING PROVIDED = 111"

B.W. LINE "2" (SPACING = 22")
BRACING REQ'D = 163"
BRACING PROVIDED = 195"

B.W. LINE "1" (SPACING = 17")
BRACING REQ'D = 50"
BRACING PROVIDED = 114"

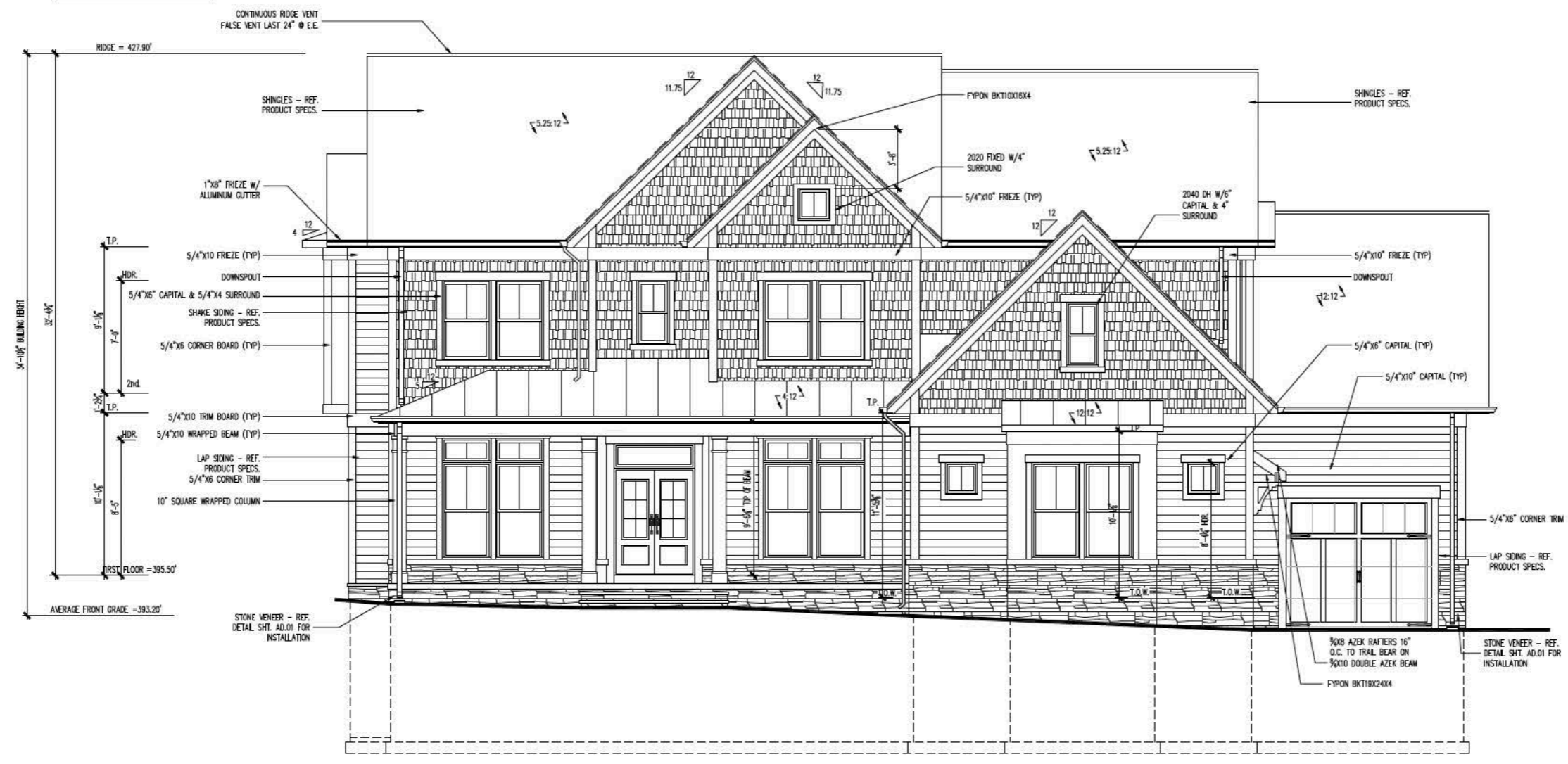
B.W. LINE "A" (SPACING = 27")
BRACING REQ'D = 167"
BRACING PROVIDED = 167"

B.W. LINE "B" (SPACING = 33")
BRACING REQ'D = 90"
BRACING PROVIDED = 100"

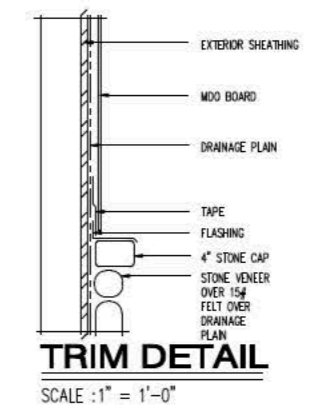
B.W. LINE "C" (SPACING = 24")
BRACING REQ'D = 161"
BRACING PROVIDED = 192"

B.W. LINE "E" (SPACING = 17")
BRACING REQ'D = 118"
BRACING PROVIDED = 140"

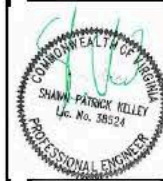
ALL GRADE CALCULATIONS
 ARE REFERENCED FROM
 APPROVED SITE PLAN



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



2x36 Plotted at 1/4"=1'-0" - 12x18 Plotted at 1/8" = 1'-0"
FISHER CUSTOM HOMES - 430 AYR HILL AVENE
FRONT ELEVATION



DRAWN BY:
MCR
 DATE: **05/24/23**
 REV No. DATE
 XXX XXX-XX-XX

23-100

SHEET No.
A4.1