

BUILDING & CODE DATA

APPLICABLE CODES AND REQUIREMENTS:

MICHIGAN BUILDING CODE/2000
MICHIGAN MECHANICAL CODE/2003
MICHIGAN PLUMBING CODE/2003
MICHIGAN ELECTRICAL CODE/1999

PROPOSED APARTMENT USE GROUP:

R2

FIRE RESISTANCE RATING:

EXTERIOR WALLS (LOAD BEARING)
EXTERIOR WALLS (NON-LOAD BEARING)
DWELLING UNIT SEPARATION WALLS
INTERIOR BEARING WALLS
FIREWALL
INTERIOR NON-BEARING WALLS (WITHIN DWELLING)
ROOF / CEILING CONSTRUCTION
FLOOR / CEILING ASSEMBLIES
EXTERIOR DECK/BALCONY
ROOF SHINGLES

(1) HR
(0) HR
(1) HR
(1) HR
(2) HR
(0) HR
(1) HR
(1) HR
(1) HR
(0) HR
(0) HR
(0) HR

PROPOSED CONSTRUCTION HGT:

(2) STORY

MINIMUM DESIGN LIVE LOADS

FLOOR LIVE LOAD: 40 PSF
FLOOR DEAD LOAD: 10 PSF* + 15 PSF TOPPING
STAIR LIVE LOAD: 100 PSF, 300 LB. CONCENTRATED LOAD ON 4 SQ. IN.
STAIR DEAD LOAD: 10 PSF
ROOF LIVE LOAD: 30 PSF GROUND SNOW + SNOW DRIFT/ UNBALANCED LOADS + WIND / SEISMIC WHERE APPLICABLE @ TOP CHORD
10 PSF LIVE LOAD @ BOTTOM CHORD - UNINHABITABLE ATTIC, WITHOUT STORAGE
ROOF DEAD LOAD: 17 PSF (7 PSF T CHORD, 10 PSF* B CHORD)
ROOF TRUSS DESIGN LOAD(S): DETERMINED PER ASCE 7-98, TO INCLUDE DRIFT/UNBALANCED SNOW WIND & SEISMIC LOADS
DECKS: 40 PSF LIVE LOAD
10 PSF DEAD LOAD
WIND SPEED = 90 MPH (3) SECOND GUST
SEISMIC CATEGORY: B
EXPOSURE CATEGORY: C; > 1500 FT TO LAKE MICH
IMPORTANCE CATEGORY/ SEISMIC USE GROUP: I
DEFLECTION REQUIREMENTS:
ROOF: L/240 OF SPAN UNDER TOTAL ROOF LOAD.
FLOOR: L/360 OF SPAN UNDER TOTAL FLOOR LOAD; L/480 OF SPAN UNDER LIVE LOAD
DRAFTSTOPPING REQUIREMENTS:
FLOORS: IN LINE WITH DWELLING SEPARATION WALLS
ATTICS: ABOVE & IN LINE WITH DWELLING SEPARATION WALLS
BETWEEN EVERY TWO DWELLINGS OR NOT TO EXCEED 3000sq ft
AREA WHICHEVER IS SMALLER.
CLOTHES DRYER EXHAUST
EXHAUSTS FOR CLOTHES DRYERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SECTION 504 OF THE 2000 MICHIGAN MECHANICAL CODE
GENERAL NOTES:
• ALL GRADE FLOOR DWELLING UNITS ARE SUBJECT TO THE REQUIREMENTS OF THE FEDERAL FAIR HOUSING ACCESSIBILITY GUIDELINES. VERIFY ACCESSIBLE UNIT LOCATIONS W/ APPROVED CIVIL ENGINEERING DRAWINGS. (MBC TYPE 'B' DWELLING)
• 2% BARRIER FREE (HANDICAPPED ACCESSIBLE) DWELLING UNITS SHALL BE PROVIDED IN ACCORDANCE W/ STATE OF MICH (MBC TYPE 'A' DWELLING)
• APPROVED SMOKE DETECTORS SHALL BE INSTALLED:
1. IN THE IMMEDIATE VICINITY OF BEDROOMS
2. IN ALL ROOMS USED FOR SLEEPING PURPOSES.
3. IN EACH STORY WITHIN A DWELLING UNIT.

APARTMENT BUILDING UNIT TABULATION										
BUILDING #	TYPE	AREA S.F. *	A	Abf	B	Bbf	C	D	Dbf	TOTAL
1	II	9654			7	I	B			16
2	III	11711	3	I	12			4		20
3	III	11711	4		12			4		20
4	II	9654			B	B				16
5	III	11711	4		12			3	I	20
6	II	9654			B	B				16
7	III	11711	4		12			4		20
TOTALS			15	I	71	I		24	15	128

* AREA IS FIRST FLOOR AREA & INCLUDES UNIT HVAC CLOSET, EXT STOR CLOSET, COVERED PATIO & DECK, AND 60 SQ. FT WATER SERVICE ROOM MAX. (4) UNITS PER FLOOR BETWEEN FIREWALLS. SEE COMPOSITE BUILDING PLANS - SHTS. #A1.2 & A1.5, FOR AREAS BETWEEN FIREWALLS.

CIVIL ENGINEERING:

prepared by BOSS ENGINEERING

- COVER SHEET
- FINAL SITE PLAN
- LANDSCAPE PLAN
- GRADING & SOIL EROSION CONTROL PLAN
- GENERAL UTILITY PLAN
- WORTHINGTON PLACE PLAN & PROFILE
- WORTHINGTON SOUTH COURT PLAN & PROFILE
- WORTHINGTON COURT NORTH PLAN & PROFILE
- STORM SEWER PLAN & PROFILE
- SANITARY SEWER PLAN & PROFILE
- WATERMAIN PLAN & PROFILE
- DRAINAGE CALCULATIONS
- PAVING & SOIL EROSION DETAILS
- UTILITY DETAILS

ARCHITECTURAL:

APARTMENT BUILDINGS

- S.P. ARCHITECTURAL SITE PLAN
F.R. FIRRERATED PENETRATION PROTECTION

- A1.1 FOUNDATION PLAN - UNIT TYPE 'A'
A1.2 FOUNDATION PLAN - UNIT TYPE 'B'
A1.3 FOUNDATION PLAN - UNIT TYPE 'C'
A1.4 FOUNDATION PLAN - UNIT TYPE 'D'
A2.1 FIRST & SECOND FLOOR PLANS - UNIT TYPE 'A'
A2.2 FIRST & SECOND FLOOR PLANS - UNIT TYPE 'B'
A2.3 FIRST & SECOND FLOOR PLANS - UNIT TYPE 'C'
A2.4 FIRST & SECOND FLOOR PLANS - UNIT TYPE 'D'
A3.1 FRONT/REAR & END ELEVATIONS - UNIT TYPES 'A' & 'B'
A3.2 FRONT/REAR ELEVATIONS- UNIT TYPE 'C'
A3.3 FRONT/REAR & END ELEVATIONS - UNIT TYPES 'D'
A4.1 BARRIER FREE UNIT PLANS & INTERIOR ELEVATIONS -

- A4.2 BARRIER FREE UNIT PLANS & INTERIOR ELEVATIONS -
A5.1 SCHEDULES & INTERIOR ELEVATIONS
A6.1 CROSS SECTION & DETAILS
A7.1 FOUNDATION PLAN - BUILDING TYPE II - # 1, 4, 6
A7.2 FIRST & SECOND FLOOR PLANS - BUILDING TYPE II - # 1, 4, 6
A7.3 ROOF PLAN & ELEVATIONS - BUILDING TYPE II - # 1, 4, 6
A7.4 FOUNDATION PLAN - BUILDING TYPE III - # 2, 3, 5, 7
A7.5 FIRST & SECOND FLOOR PLAN - BUILDING TYPE III - 2, 3, 5, 7
A7.6 ROOF PLAN & ELEVATIONS - BUILDING TYPE III - 2, 3, 5, 7
W5.1 WALL SECTIONS
W5.2 WALL SECTIONS & DETAILS
W5.3 BALCONY SECTION & DETAILS
W5.4 WINDOW DETAILS
MK-1 MAIL KIOSK

CLUBHOUSE:

- CH1.0 FOUNDATION PLAN
CH2.0 FIRST FLOOR PLAN
CH3.0 FRONT & LEFT SIDE ELEVATION
CH3.1 REAR & RIGHT SIDE ELEVATION
CH4.0 BUILDING SECTION & DETAILS
CH5.0 WALL SECTIONS
CH6.0 INTERIOR ELEVATIONS
CH7.0 SCHEDULES

MECHANICAL

APARTMENT BUILDINGS

- M1.1 UNDERGRND PLUMBING PLAN - BLDG. TYPE II
M1.2 UNDERGRND PLUMBING PLAN - BLDG. TYPE III
M2.1 1st & 2nd FLR. PLUMBING PLAN - BLDG. TYPE II
M2.2 1st & 2nd FLR. PLUMBING PLAN - BLDG. TYPE III
M3.1 1st FLR. UNIT B & C SANITARY PLUMBING PLAN
M3.2 2nd FLR. UNIT B & C SANITARY PLUMBING PLAN

- M3.3 1st FLR. UNIT A & B SANITARY PLUMBING PLAN
M3.4 1st FLR. UNIT B & D SANITARY PLUMBING PLAN
M3.5 2nd FLR. UNIT A & B SANITARY PLUMBING PLAN
M3.6 2nd FLR. UNIT B & D SANITARY PLUMBING PLAN
M3.7 PLUMBING DETAILS
M4.1 1st FLR. UNIT B & C PLUMBING PLAN - BLDG. TYPE II
M4.2 2nd FLR. UNIT B & C PLUMBING PLAN - BLDG. TYPE II
M4.3 1st FLR. UNIT A & B PLUMBING PLAN - BLDG. TYPE III
M4.4 2nd FLR. UNIT A & B PLUMBING PLAN - BLDG. TYPE III
M4.5 1st FLR. UNIT B & D PLUMBING PLAN - BLDG. TYPE III
M4.6 2nd FLR. UNIT B & D PLUMBING PLAN - BLDG. TYPE III
M5.1 1st & 2nd FLR. PLANS UNIT A - HVAC
M5.2 1st & 2nd FLR. PLANS UNIT B - HVAC
M5.3 1st & 2nd FLR. PLANS UNIT C - HVAC
M5.4 1st & 2nd FLR. PLANS UNIT D - HVAC
M5.5 BARRIER FREE UNIT PLANS - UNITS A, B, & D - HVAC
M6.1 MECHANICAL SCHEDULE
CLUBHOUSE
MC1.1 UNDERGROUND PLUMBING PLAN
MC1.2 FLOOR PLAN - PLUMBING
MC2.1 FLOOR PLAN - HVAC
MC3.1 MECHANICAL DETAILS
MC3.2 MECHANICAL SCHEDULES

ELECTRICAL

APARTMENT BUILDINGS

- E1.1 SITE PLAN - ELECTRICAL
E2.1 1st & 2nd FLR. PLANS UNIT A - ELECT.
E2.2 1st & 2nd FLR. PLANS UNIT B - ELECT.
E2.3 1st & 2nd FLR. PLANS UNIT C - ELECT.
E2.4 1st & 2nd FLR. PLANS UNIT D - ELECT.
E2.5 BARRIER FREE UNIT PLANS - UNITS A, B, & D - ELECTRICAL
E3.1 1st & 2nd FLOOR PLANS - BUILDING TYPE II
E3.2 1st & 2nd FLOOR PLANS - BUILDING TYPE III
CLUBHOUSE
EC1.1 FLOOR PLAN - ELECTRICAL

SHEET SCHEDULE

Proposed:

WORTHINGTON
APT ARTMENT

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CITY OF LESLIE

LESLE, MICHIGAN

developer:

Fielek Land Development, L.L.C.

architect:

Progressive Associates, Inc.

P.O. Box 89

mech/elect

Architects

South Lyon, Michigan

838 W. Long Lake #250

(248) 437-2728

Bloomfield Hills, MI 48302

fax. (248) 437-9781

248 540-5940 • Fax 248 540-4820

by date

date

general contractor:

Fielek Builders, L.L.C.

mech/elect

Architects

P.O. Box 89

consultant

Manicini - Alkateeb & Associates

South Lyon, Michigan

80400 Telegraph Rd., Suite 436

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issued:

by date

PERMIT / BIDS

FEBRUARY 9, 2004

surety:

St. James Capital L.L.C.

300 Park Street Suite 410

Birmingham, Michigan

(248) 438-1500 (800) 924-9852

fax. (248) 438-1550

by date

by date

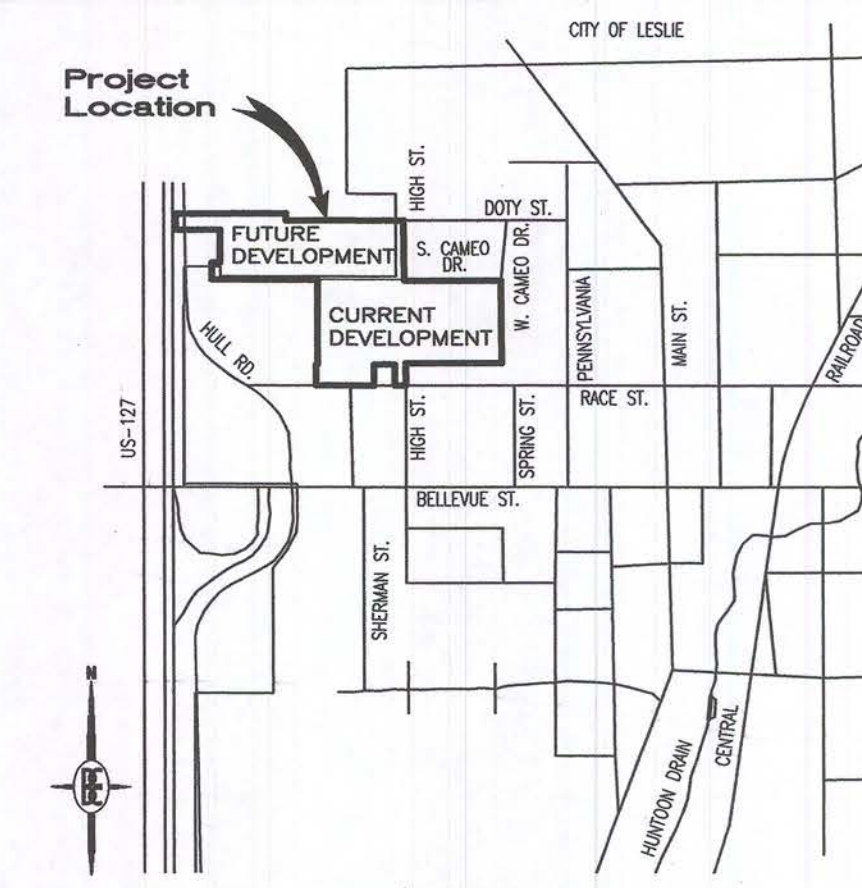


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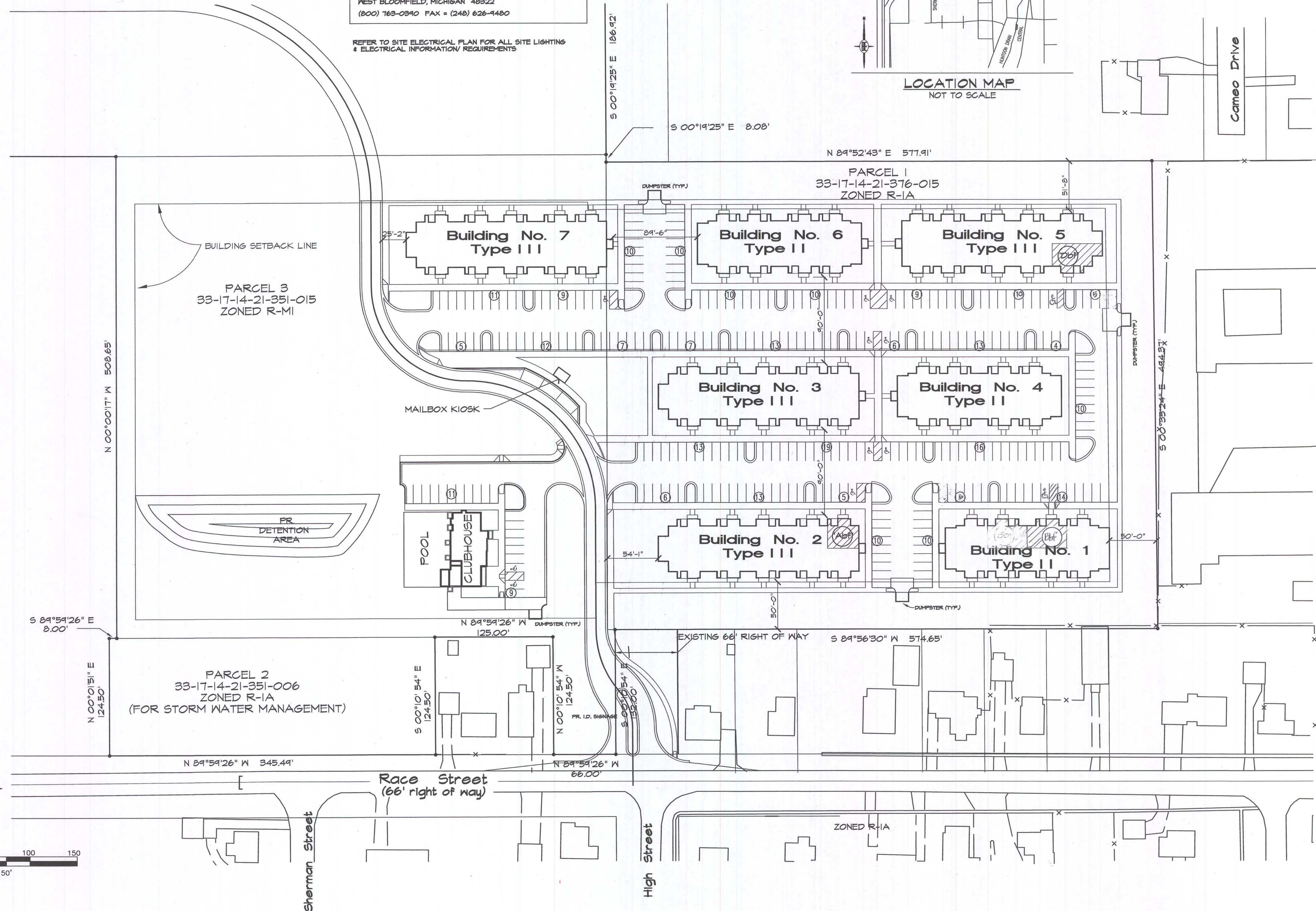
NOTE: PROGRESSIVE ASSOCIATES, INC IS NOT THE SITE PLANNER OF THIS PROPOSED COMMUNITY, AND AS SUCH MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, THAT THIS PLAN MEETS STATE, FEDERAL, &/OR LOCAL ZONING ORDINANCES, STATUTES OR REQUIREMENTS. THIS DRAWING IS TO BE USED FOR GENERAL SITE ORIENTATION ONLY. REFER TO APPROVED CIVIL ENG. & LANDSCAPE DRAWINGS FOR ALL INFORMATION, SUCH AS BUILDING, UTILITY, WALK, PARKING, ACCESSIBLE CURB CUTS, ACCESSIBLE ROUTES, AND PAVEMENT LOCATIONS, AND DIMENSIONS, GRADING, EASEMENTS, RIGHTS OF WAY & ALL RELATED SPECIFICATIONS.

CIVIL ENGINEERING DRAWINGS HAVE BEEN PREPARED BY:
BOSS ENGINEERING
1125 ORCHARD LAKE RD. SUITE #300
WEST BLOOMFIELD, MICHIGAN 48322
(800) 763-0940 FAX = (248) 626-4480

REFER TO SITE ELECTRICAL PLAN FOR ALL SITE LIGHTING & ELECTRICAL INFORMATION/ REQUIREMENTS



LOCATION MAP
NOT TO SCALE



Developer:
FIELEK LAND DEVELOPMENT, L.L.C.
South Lyon, Mi.

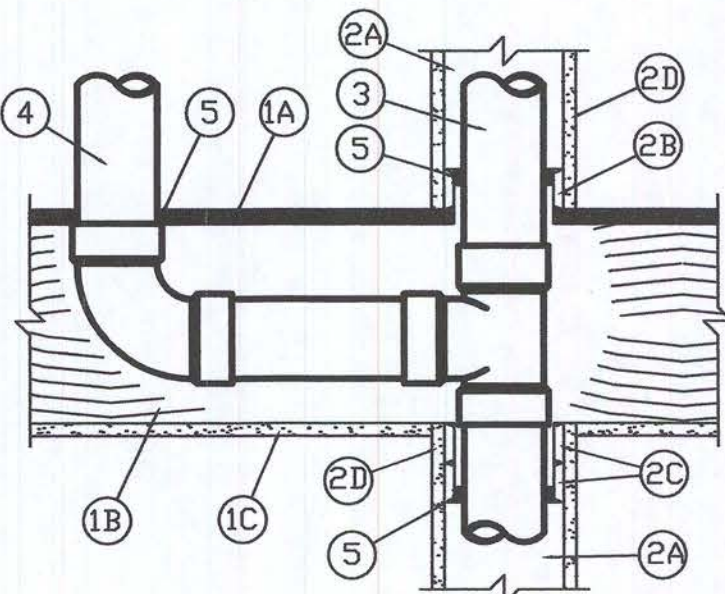
Project:
WORTHINGTON APARTMENTS

LESLE, MICHIGAN

Sheet Title:
ARCHITECTURAL SITE PLAN

Project Number: 03-161
Drawn: PA
Checked: GA
Date: 1-15-04
Sheet Number:
SP1

System No. F-C-2157
F Rating - 1 Hr
T Rating - 1 Hr



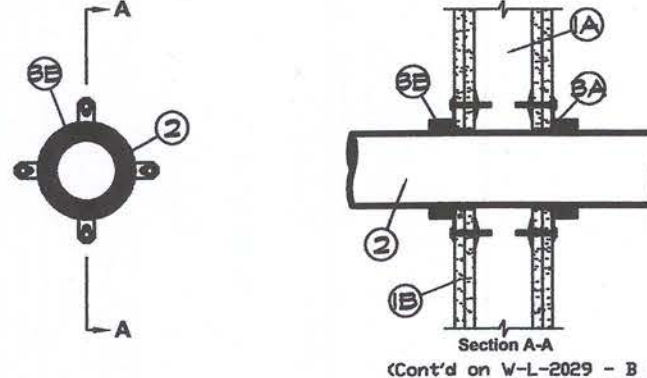
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System No. F-C-2157
F Rating - 1 Hr
T Rating - 1 Hr

- Floor-Ceiling Assembly** - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
 - Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be 1 in. larger than outside diam of drain piping and positioned such that drain piping is centered in opening. Patch split into two pieces at opening hole-sawed for bathtub drain piping. Two pieces positioned around drain piping, with cut edges tightly butted, and screw-attached to underside of subfloor with 1-1/4 in. long Type 5 steel screws spaced max 6 in. OC.
 - Wood Joists** - Nom 12 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 - Gypsum Board** - Nom 4 ft. wide by 5/8 in. thick, attached as described in the individual Floor-Ceiling Design.
 - Drain Piping** - Nom 1-1/2 in. diam (or smaller) Schedule 40 cellular or solid core polyvinyl chloride (PVC) acrylonitrile butadiene styrene (ABS), or SDR17 chlorinated polyvinyl chloride (CPVC) pipe and drain fittings cemented together and provided with PVC, ABS or CPVC bathtub waste/overflow fittings. The annular space shall be a min 5/8 in. to max 5/8 in. annular space, flush with both surfaces of plywood or gypsum wallboard patch.
 - Fill, Void or Cavity Material** - Sealant - Min 5/8 in. depth of fill material applied within annular space, flush with both surfaces of plywood or gypsum wallboard patch.
- SPECIFIED TECHNOLOGIES INC. - SpecSeal 100, 101, 102 or 105 Sealant, SpecSeal L61 Sealant
- *Bearing the UL Classification Marking

PENETRATION PROTECTION:
THE PENETRATION PROTECTION FIRESTOPS DEPICTED HERE, ARE TYPICAL SYSTEMS SELECTED TO ESTABLISH THE DESIGN INTENT FOR REVIEW/APPROVAL BY THE LOCAL BUILDING DEPT., AND ARE PROPOSED TO BE UTILIZED FOR THE LISTED PENETRANTS, ONLY. ALTERNATE SYSTEMS MAY BE UTILIZED AS APPROVED BY THE LOCAL BUILDING DEPARTMENT. WHERE PENETRANTS WILL BE DIFFERENT THAN THOSE INDICATED IN THE PRESENTED TESTS, OR WHERE PENETRANTS PENETRATE ASSEMBLIES OTHER THAN THOSE INDICATED IN THE TESTS, THE CONTRACTOR WHO IS MAKING THE PENETRATION SHALL SUBMIT DOCUMENTATION TO THE LOCAL BUILDING DEPARTMENT FOR APPROVAL PRIOR TO INSTALLING THE FIRESTOP SYSTEM. REFER TO SHEET GN, AND THE SPECIFICATION MANUAL, FOR PENETRATION PROTECTION REQUIREMENTS.

Guide XHEZ
Through-Penetration Firestop Systems
System No. W-L-3024
F-Rating - 1 and 2 Hr (See Items 1 and 3B)
T-Rating - 1, 1-1/2 and 2 Hr (See Items 3B and 4B)
L-Rating At Ambient - Less Than 1 CFM/sq ft
L-Rating At 400 F - Less Than 1 CFM/sq ft



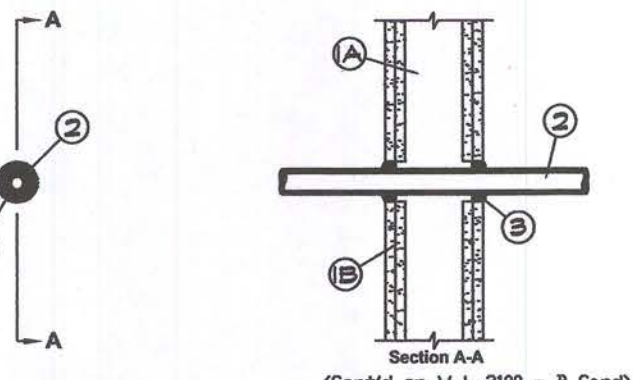
(Cont'd on W-L-3024 - B Card)

System No. W-L-2024

- Wall Assembly** - The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U500 and U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Wallboard, Gypsum** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U500 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in.
 - Cables** - One cable to be installed either concentrically or eccentrically within the firestop system. The annular space within the firestop system shall be a min 0 in. (point contact) to a max 1/4 in. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:
 - Max 300 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation. When 200 pair No. 24 AWG telephone cable is used, T Rating is 0 hr. When 50 pair No. 24 AWG telephone cable is used, T Rating is 1 or 2 hr.
 - Max 3/4 in. 2/0 AWG (or smaller) aluminum conductor service entrance cable with PVC insulation and jacketing. When service entrance cable is used, the T Rating is 1/2 hr.
 - Max 1/2 in. 1/0 AWG (or smaller) copper power cable with cross-linked polyethylene (XLPE) insulation and jacketing. When 1/2 in. 1/0 AWG cable is used, the T Rating is 0 hr.
 - Max 3/4 in. 6 AWG (or smaller) PVC insulated and jacketed nonmetallic sheathed (Romex) cable. When Romex is used, the T Rating is 1 or 2 hr.
 - Max 1/2 in. 1/0 AWG (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing. When coaxial cable is used, the T Rating is 1 or 2 hr.
 - Max 625/125 micron fiber optic cable with PVC insulation and jacketing. When fiber optic cable is used, the T Rating is 1 or 2 hr.
 - Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hyloar insulation and jacketing. When data cable is used, the T Rating is 1 or 2 hr.
 - Through-Penetrating Product** - As an alternate to Item 2, max four copper conductor No. 2/0 AWG (or smaller) aluminum or steel Armored or Metal-Clad Cable. Max one armored cable or metal-clad cable to be installed either concentrically or eccentrically within the firestop system. Through-penetrating product to be rigidly supported on both sides of wall assembly. When armored or metal-clad cable is used, the T Rating is 1/2 hr.
 - Fill, Void or Cavity Material** - Sealant or Putty - Min 5/8 in. thickness of fill material installed within annulus, flush with both surfaces of wall assembly. Additional fill material installed such that a min 1/4 in. diam crown is formed around the through-penetrant on both sides of the wall.
- SPECIFIED TECHNOLOGIES INC. - SpecSeal Series 100 Sealant or SpecSeal Putty
- *Bearing the UL Classification Marking
- *Bearing the UL Listing Mark

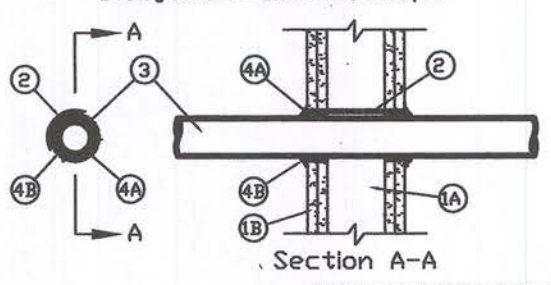
SPECIFIED TECHNOLOGIES INC. - SpecSeal Firestop Collar

Guide XHEZ
Through-Penetration Firestop Systems
System No. W-L-2100
F-Rating - 1 and 2 Hr (See Item 1)
T-Rating - 0, 1 and 1-1/2 Hr (See Item 2)



System No. W-L-2100
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0, 1 and 1-1/2 Hr (See Item 2)

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U500 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
 - Wallboard, Gypsum** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U500 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in.
 - Nonmetallic Pipe** - One nonmetallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types of nonmetallic pipes or tubing may be used:
 - Polyethylene Pipe** - Nom 1 in. diam (or smaller) SDR 17 (or heavier) polyethylene (PE) pipe for use in closed (process or supply) piping systems. A non annular space of 1/4 in. is required within the firestop system.
 - Cross Linked Polyethylene (PEX) Tubing** - Nom 1 in. diam (or smaller) SDR 4 PEX tubing for use in closed (process or supply) piping systems. A non annular space of 1/4 in. is required within the firestop system.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 1-1/2 in. diam (or smaller) Schedule 40 cell/cor ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. A non annular space of 5/8 in. is required within the firestop system.
 - Polyvinyl Chloride (PVC) Pipe** - Nom 1-1/2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. A non annular space of 5/8 in. is required within the firestop system.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 1-1/2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. A non annular space of 5/8 in. is required within the firestop system. The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed and the type of through penetrant as shown in the table below.
 - Fill, Void or Cavity Material** - Sealant - Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. thick crown is formed around the penetrating item.
- SPECIFIED TECHNOLOGIES INC. - SpecSeal 100, 101, 102 or 105 Sealant
- *Bearing the UL Classification Marking



System No. W-L-2048

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U500 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
 - Wallboard, Gypsum** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U500 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in.
 - Steel Sleeve** - Nom 3 in. diam (or smaller) Schedule 40 (or thinner) steel pipe friction-fit into wall assembly, flush with both surfaces of wall. When steel sleeve is used, T Rating is 1 hr.
 - Through Penetrants** - One nonmetallic pipe or conduit to be centered within the firestop system. A non annular space of 5/8 in. is required within the firestop system. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NEC No. 10).
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 2 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe** - Nom 2 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Firestop System** - The firestop system shall consist of the following:
 - Fill, Void or Cavity Material** - Wrap Strip - Nom 1/4 in. thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 or 2 in. wide strips. Single layer of wrap strip wrapped around the through penetrant with the ends butted and held in place by means of two layers of foil tape. In 2 hr wall assemblies, the wrap strip is slid along the through penetrant into annulus such that 1-1/4 in. of the wrap strip extends into the wall. In 1 hr wall assemblies, the wrap strip is slid along the through penetrant into annulus such that 3/8 in. of the wrap strip extends into the wall. One set of wrap strips to be installed on each side of wall.
 - T Rating of the firestop system** - dependent upon the hourly rating of the wall, the type of through penetrant and the type of wrap strip used as tabulated below:
- | Type of Through Penetrant | Hourly Rating of Wall Hr | Type of Wrap Strip | T Rating Hr |
|---------------------------|--------------------------|--------------------|--------------|
| PVC, CPVC, RNC or FRPP | 1 | SpecSeal BUJ | SpecSeal RED |
| ABS | 1 | SpecSeal BUJ | SpecSeal RED |
| PVC, CPVC, RNC or FRPP | 2 | SpecSeal BUJ | SpecSeal RED |
| ABS | 2 | SpecSeal BUJ | SpecSeal RED |
| ABS | 2 | SpecSeal BUJ | SpecSeal RED |
- SPECIFIED TECHNOLOGIES INC. - SpecSeal BUJ Wrap Strip and SpecSeal RED Wrap Strip
- B. Fill, Void or Cavity Material - Sealant - A min 1/4 in. diam bead of fill material shall be applied at the gypsum wallboard/wrap strip interface on both surfaces of wall.
- SPECIFIED TECHNOLOGIES INC. - SpecSeal 100, 101 or 105 Sealant
- *Bearing the UL Classification Marking

838 W. Long Lake #250
Bloomfield Hills, MI 48302
248 540-5940 Fax 248 540-4820
Email: pa@progressiveassociates.com



Issued For:
DEVELOPER REVIEW
10-15-03
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2-9-04

Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Michigan

Project:
WORTHINGTON
APARTMENTS

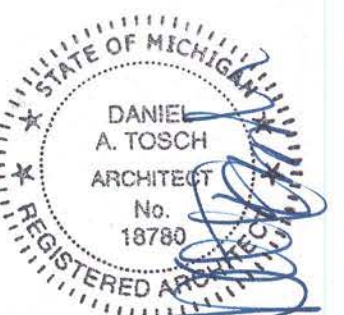
LESLE, MICHIGAN

Sheet Title:

FIRE-RATED
PENETRATION
PROTECTION

Project Number: 03-161
Drawn: PA
Checked: PA
Date: 10-15-03
Sheet Number:

FR



Issued For:
DEVELOPER REVIEW
10-15-03
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2-9-04

NOTE TO ALL CONTRACTORS :

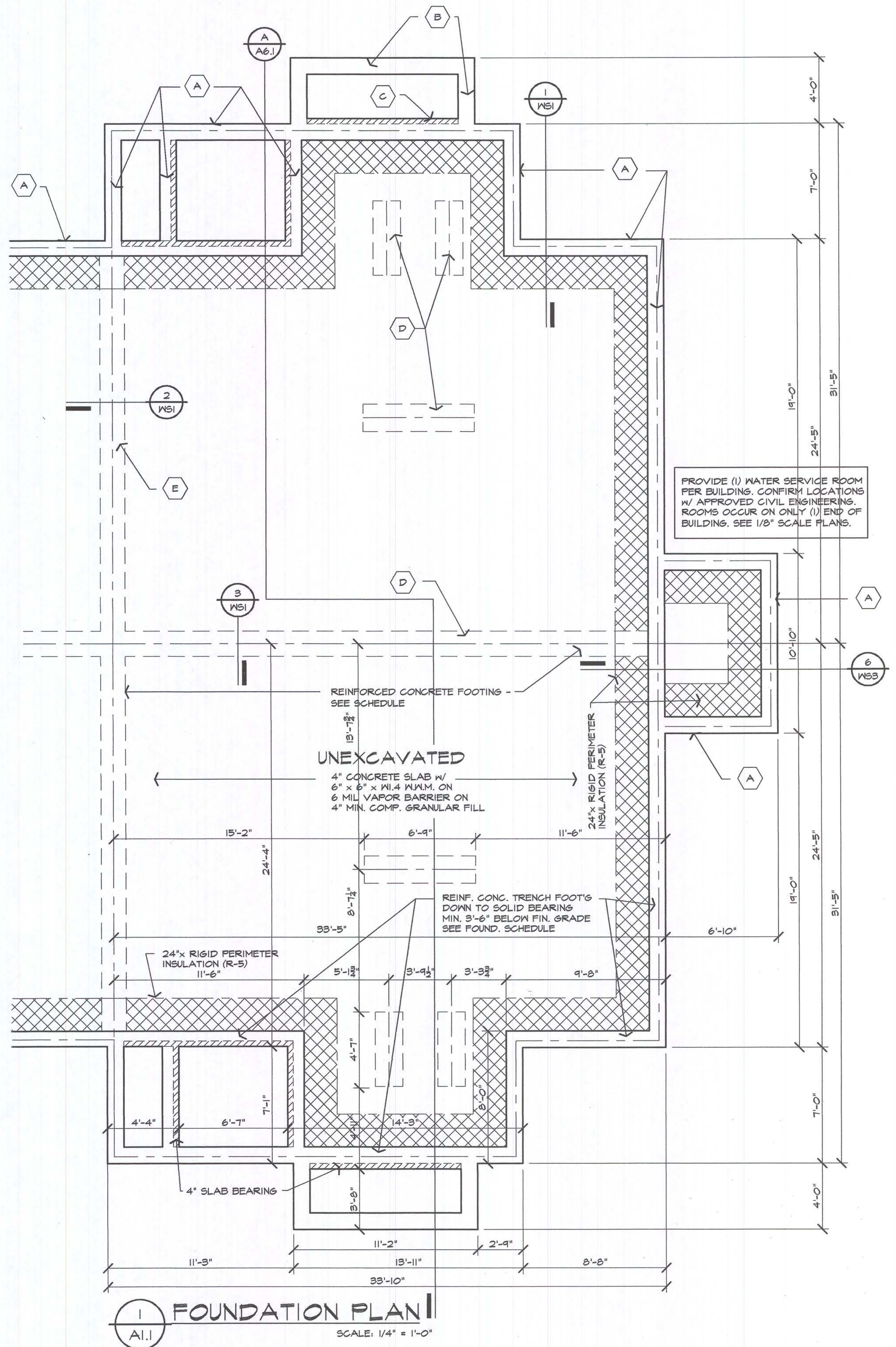
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GENERAL NOTES :

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2. ALL FOOTINGS SHALL BEAR ON SOIL OF MINIMUM 2500 BEARING CAPACITY IN ACCORDANCE WITH SOILS INVESTIGATION AND ANY/ALL ADDENDA. -SEE FOUNDATION SCHEDULE THIS SHEET.
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FOUNDATION SCHEDULE:

SOIL BEARING CAPACITY	SIZE OF EXTERIOR FOOTING TYPE 'A'	SIZE OF EXTERIOR FOOTING TYPE 'B'	SIZE OF EXTERIOR FOOTING TYPE 'C'	SIZE OF INTERIOR FOOTING TYPE 'D'	SIZE OF INTERIOR FOOTING TYPE 'E'
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1500 PSF (MIN) OR LESS	FOUNDATION SYSTEM TO BE DESIGNED BY A STRUCTURAL ENGINEER.				



Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON
APARTMENTS

LESLIE, MICHIGAN

Sheet Title:
FOUNDATION PLAN
UNIT TYPE 'A'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 10-15-03
Sheet Number:

A1.1



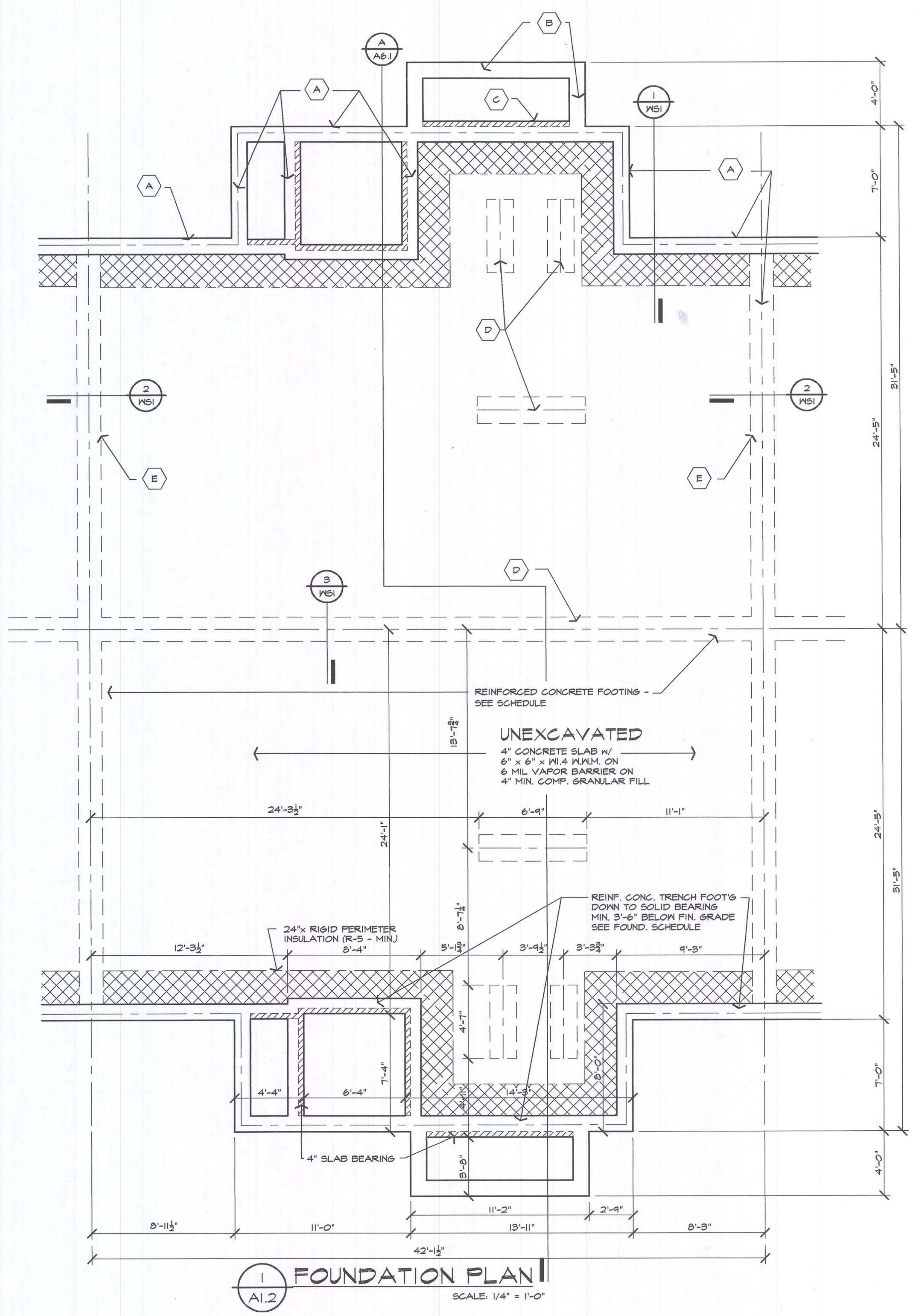
Issued For:
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10-15-03
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2-9-04

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1500 PSF (MIN) OR LESS	FOUNDATION SYSTEM TO BE DESIGNED BY A STRUCTURAL ENGINEER.				



Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON
APARTMENTS

LESLE, MICHIGAN
Sheet Title:

FOUNDATION PLAN
UNIT TYPE 'B'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 10-15-03
Sheet Number:

A1.2



Issued For:
DEVELOPER REVIEW
10-15-03
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2-9-04

NOTE TO ALL CONTRACTORS :

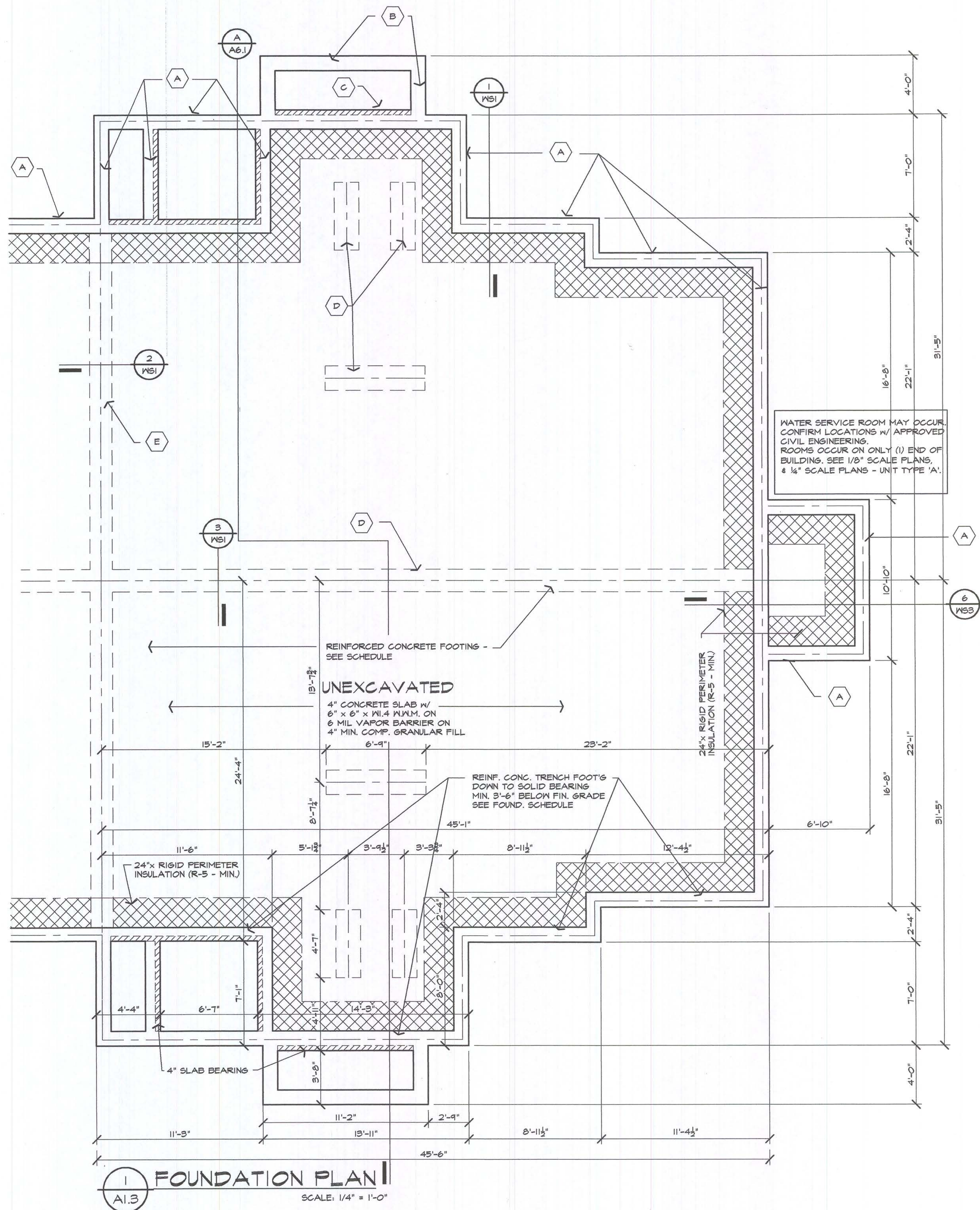
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1500 PSF (MIN) OR LESS	FOUNDATION SYSTEM TO BE DESIGNED BY A STRUCTURAL ENGINEER.				



WATER SERVICE ROOM MAY OCCUR. CONFIRM LOCATIONS W/ APPROVED CIVIL ENGINEERING. ROOMS OCCUR ON ONLY (1) END OF BUILDING. SEE 1/8\"/>

Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON
APARTMENTS

LESLIE, MICHIGAN

Sheet Title:

FOUNDATION PLAN
UNIT TYPE 'C'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 10-15-03
Sheet Number:

A1.3



Issued For:
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10-15-03
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2-9-04

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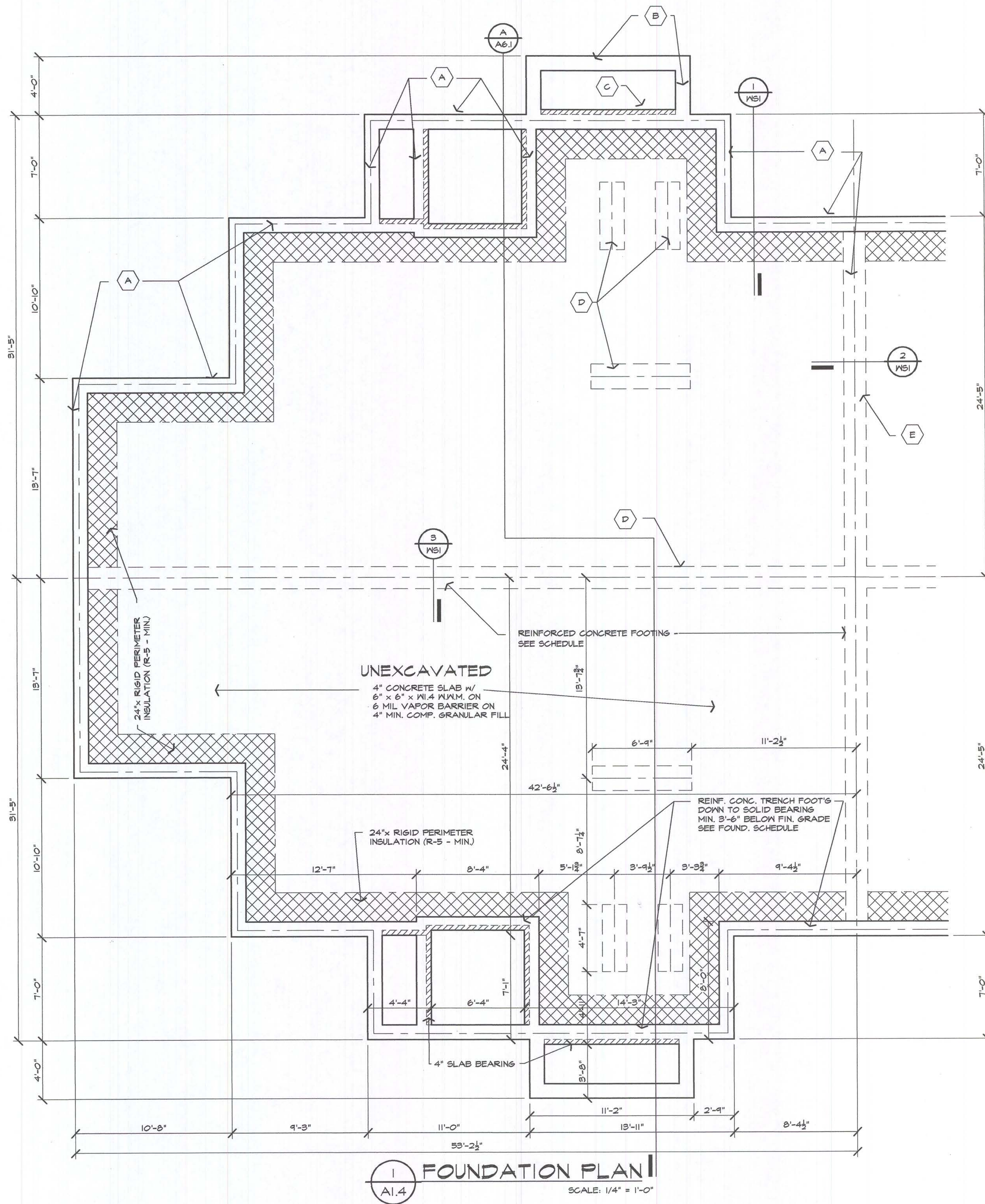
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Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON
APARTMENTS

LESLIE, MICHIGAN
Sheet Title:

FOUNDATION PLAN
UNIT TYPE 'D'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 10-15-03
Sheet Number:

A1.4

NOTE TO ALL CONTRACTORS :

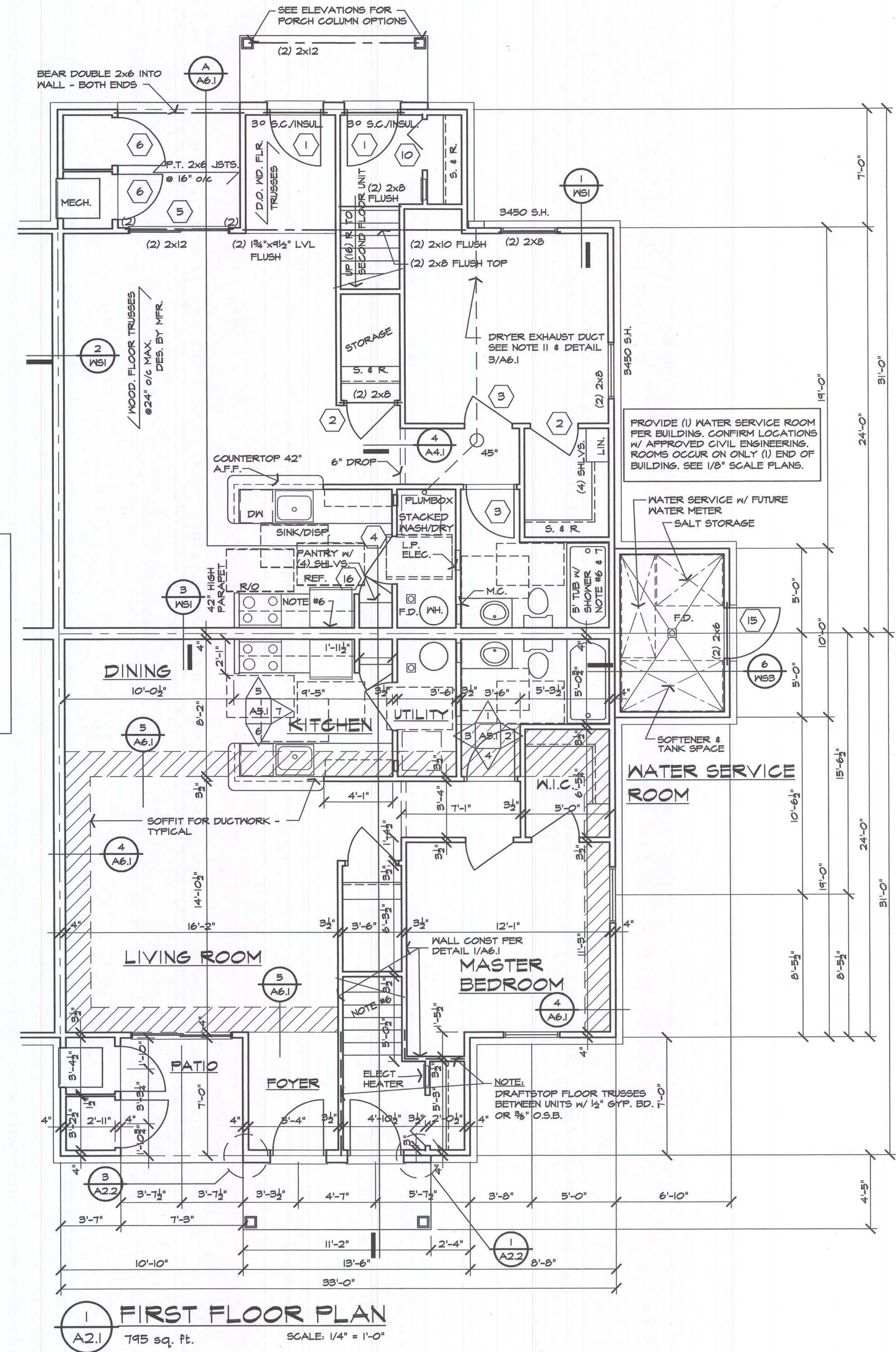
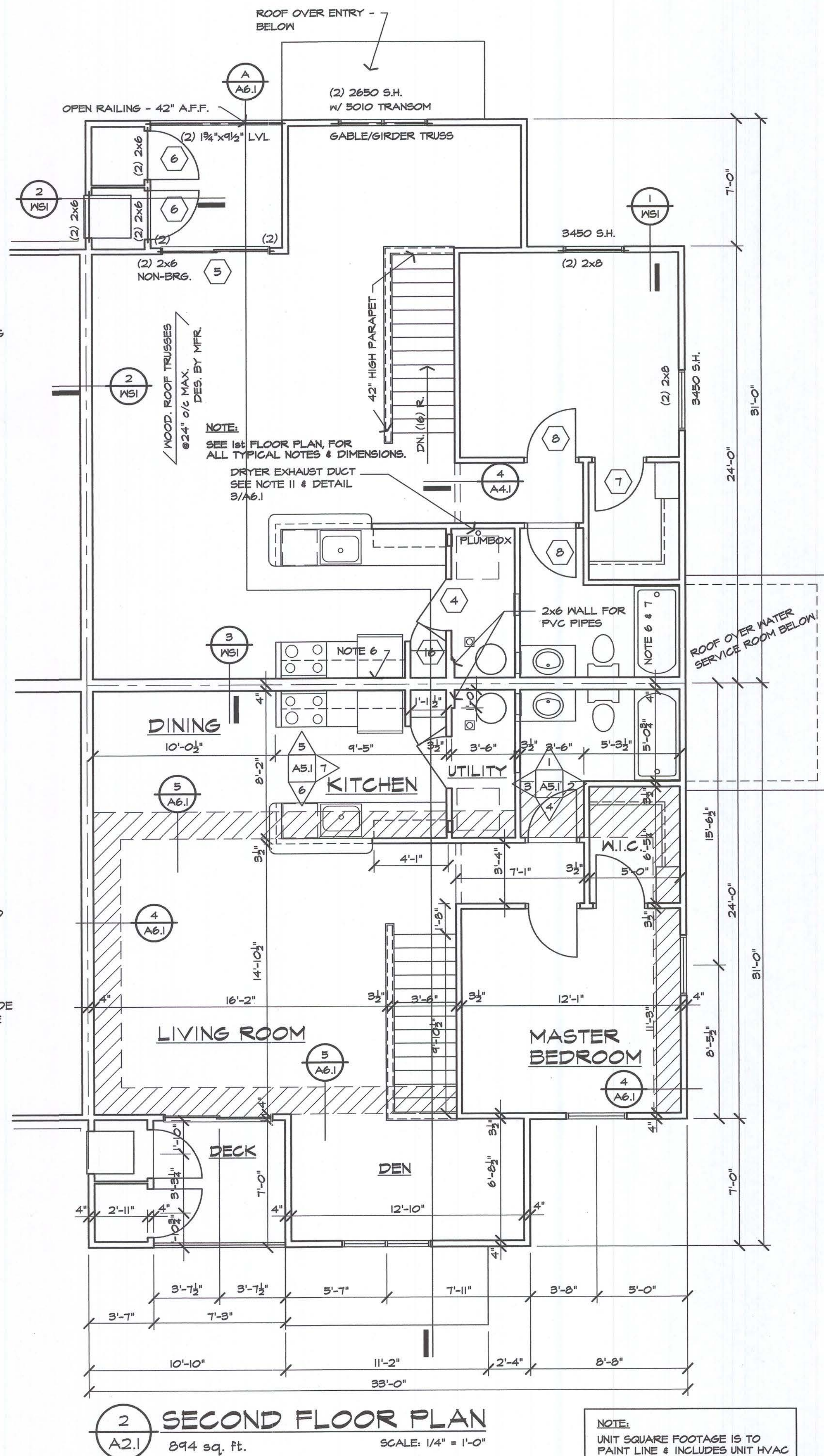
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HEADER SUPPORT LEGEND

(3) = # OF DIRECT BRG STUDS SUPPORTING EACH END OF HEADER. PROVIDE ONE FULL HGT. STUD ADJACENT TO BEARING STUDS U.O.N.

GENERAL NOTES:

1. VERIFY ALL FRAMING WITH APPROVED SHOP DRAWINGS. IF GIRDERS BEAR @ LOCATIONS NOT INDICATED, OR OVER HEADERS WHERE NOT INDICATED, NOTIFY THE ARCHITECT FOR EVALUATION OF HEADER SIZE, AND/OR POST SIZE.
2. PROVIDE SOLID WOOD BLOCKING IN ALL FLOOR CONSTRUCTION BELOW WOOD POSTS TO BEAM OR TO FOUNDATION WALL BELOW.
3. REFER TO GENERAL NOTES & SPECIFICATIONS, SHEET 'GN', FOR STEEL LINTEL SIZES, UNLESS NOTED OTHERWISE.
4. ALL WINDOWS SHALL BE VINYL WINDOWS W/ INSULATED GLASS, & SHALL MEET CODE CRITERIA FOR EMERGENCY EGRESS IN SLEEPING ROOMS. REFER TO MANUFACTURER'S SPECS. FOR ROUGH OPENING DIMENSIONS & ADDITIONAL INFORMATION. VERIFY MFR. W/ DEVELOPER. (SEE ELEV. S)
5. ALL INTERIOR DOORS TO BE 6'-8" U.N.O.
6. ALL DRYMALL ON UNIT SEPARATION WALLS & EXTERIOR WALLS, SHALL BE CONTINUOUS BEHIND ALL TUBS, CABINETS, DROPS, STAIR STRINGERS, ETC. PROVIDE DOUBLE LAYER OF DRYMALL @ WALLS W/ TUB/SHOWER SURROUND TO CONCEAL SURROUND FLANGE.
7. VERIFY EXACT ROUGH-IN DIMENSIONS FOR TUBS & SHOWERS W/ MANUFACTURERS. (SEE NOTE #6, ABOVE.)
8. ALL INTERIOR NON-LOAD BEARING DOOR & ARCHWAY HEADERS SHALL BE (2) 2x4 U.N.O.
9. ALL ANGLED WALLS TO BE AT 45 DEGREES U.N.O.
10. COORDINATE & ADJUST TRUSS SPACING AS REQUIRED TO ACCOMMODATE WATER CLOSETS, TUB TRAPS, FLOOR DRAINS, HVAC DUCTS, ETC. TRUSS SPACING SHALL NOT EXCEED SPECIFIED DIMENSION.
11. VERIFY & COORDINATE DRYER DUCT LENGTH & ROUTING WITH DRYER MFR. & LOCAL BUILDING DEPARTMENT. DRYER DUCT SHALL BE RIGID METAL. CAP SHALL HAVE A 4" DISCHARGE. SEE DETAIL A6.1.
12. NON-BEARING WALLS WITHIN DWELLING UNITS SHALL BE 5/8" TYPE 'X' GYP. BD. EA. SIDE 2x4 WOOD STUDS @ 16" o.c. w/ DOUBLE TOP PLATE. ALTERNATE: NON-RATED WALLS (1/2" GYP. BD. EACH SIDE 2x4 WOOD STUDS @ 16" o.c.) MAY BE INSTALLED, PROVIDED THE FIRE RESISTANT CEILING GYP. BD. & RESILIENT CHANNELS IS INSTALLED CONTINUOUS ABOVE THE TOP PLATE OF THE WALL PER U.L. REQ'TS.
13. PROVIDE BLOCKING FOR ALL ITEMS TO BE ATTACHED TO INTERIOR OR EXTERIOR WALLS, INCLUDING BUT NOT LIMITED TO, BLOCKING FOR CABINETS, TOWEL BARS, LIGHT FIXTURES, GRAB BARS, (INCLUDING FUTURE GRAB BARS IN ACCORDANCE WITH THE FAIR HOUSING ACCESSIBILITY ACT @ 1st FLR. DWELLINGS), WHERE APPLICABLE.
14. ALL ACCESS PANELS IN WALLS AND CEILINGS SHALL BE NEATLY TRIMMED WITH WOOD CASING. MITER ALL CORNERS.
15. ATTIC ACCESS PANELS IN FIERATED CEILINGS SHALL BE CONSTRUCTED PER DETAIL 1/A7.1.
16. ALL DWELLING UNIT FRONT ENTRANCE DOORS SHALL BE STEEL CLAD INSUL. DOOR W/ LEVER HARDWARE, WEATHER STRIPPING & 1/2" THRESHOLD W/ 1:2 (VERT.:HORIZ.) BEVELED EDGE.
17. OPPOSING EXTERIOR WALLS OF COURTS THAT ARE LESS THAN 10'-2" WIDE SHALL BE PROVIDED W/ 5/8" TYPE 'X' EXT GYPSUM SHEATHING TO PROVIDE (1) HR FIRE RATING FROM BOTH SIDES - PER U.L. DES U305



Issued For:

REVIEW
7-31-03

DEVELOPER REVIEW

10-15-03

SOFFITS

10-24-03

PERMIT/BIDS

2-9-04

Developer:

**FIELEK LAND
DEVELOPMENT, L.L.C.**
South Lyon, Mi.

Project:

**WORTHINGTON
APARTMENTS**

LESLIE, MICHIGAN

Sheet Title:

**FIRST & SECOND
FLOOR PLANS
UNIT TYPE 'A'**

Project Number: 03-161

Drawn: SM

Checked: GA

Date: 7-31-03

Sheet Number:

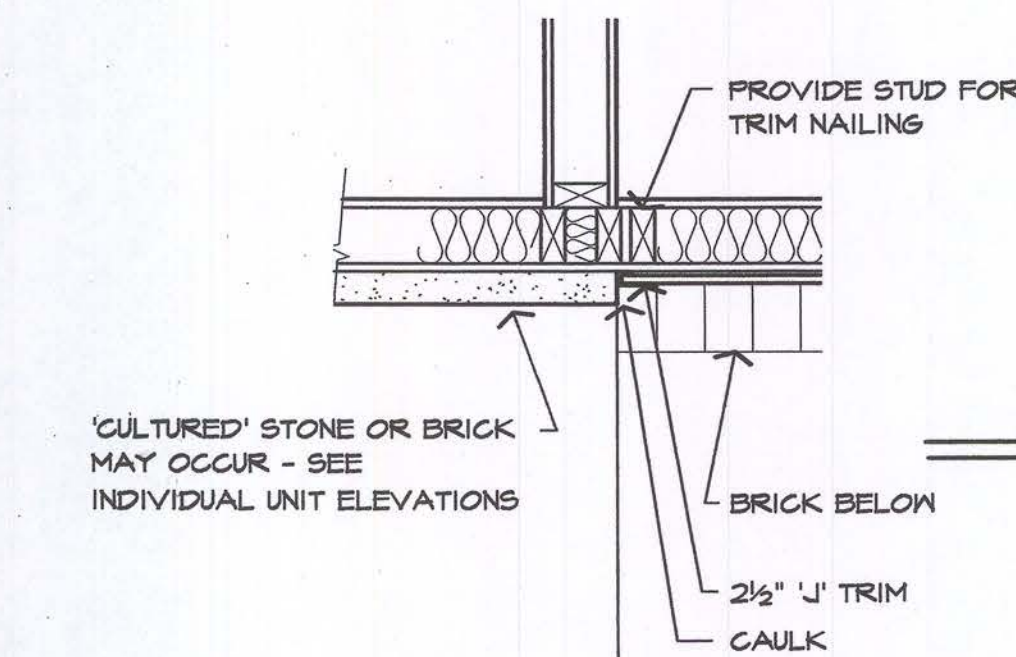
A2.1



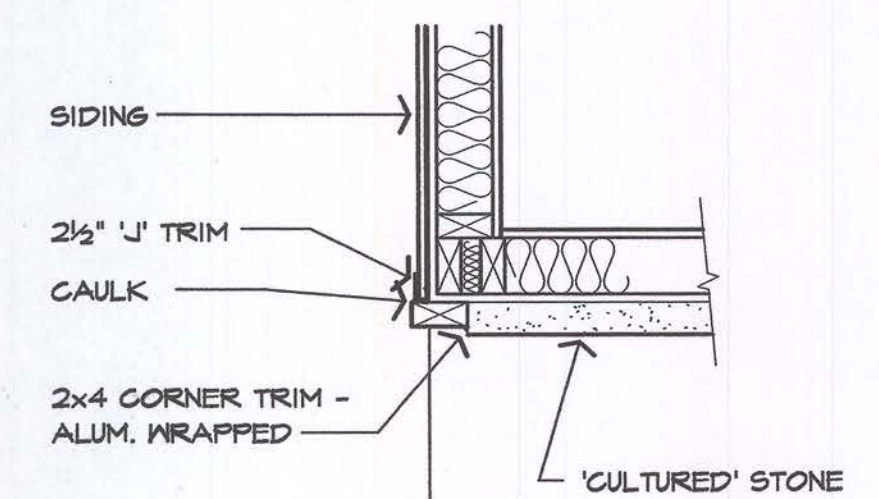
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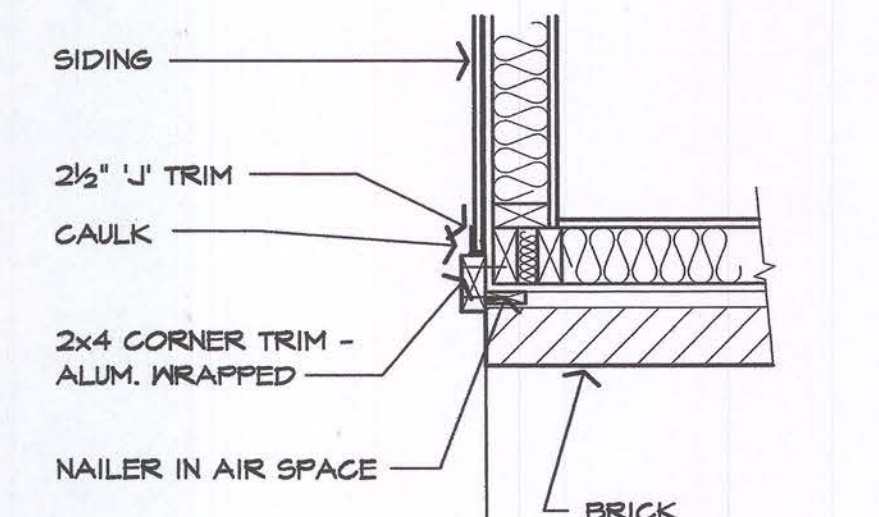
NOTE: REFER TO SHEET A2.1, FOR GENERAL NOTES.



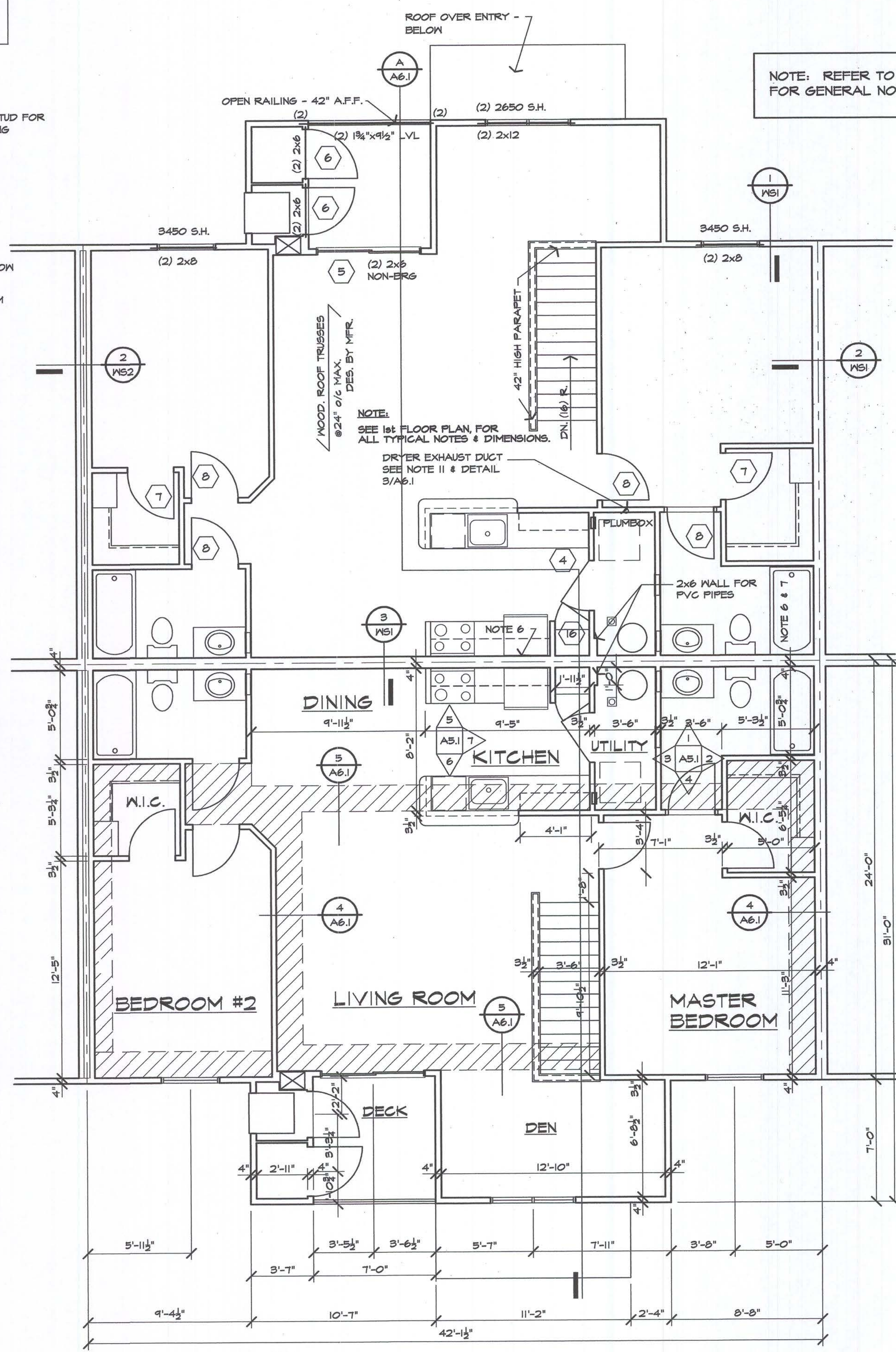
1 WALL DETAIL
A2.2 SCALE: 1" = 1'-0"



2 WALL DETAIL
A2.2 SCALE: 1" = 1'-0"

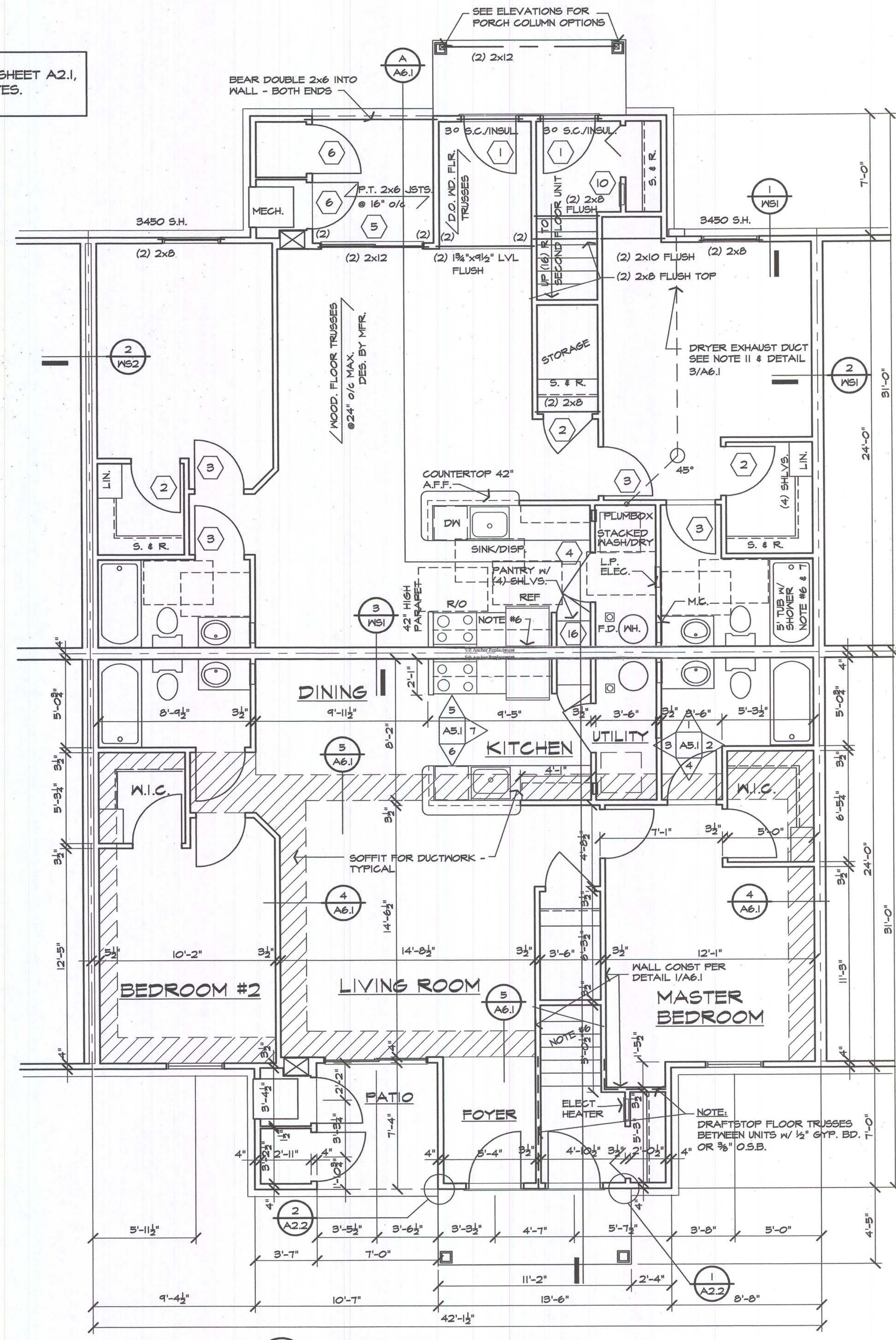


3 WALL DETAIL
A2.2 SCALE: 1" = 1'-0"



2 SECOND FLOOR PLAN
A2.2 1100 sq. ft. SCALE: 1/4" = 1'-0"

NOTE:
UNIT SQUARE FOOTAGE IS TO PAINT LINE & INCLUDES UNIT HVAC & EXTERIOR STORAGE SPACE.



1 FIRST FLOOR PLAN
A2.2 1001 sq. ft. SCALE: 1/4" = 1'-0"

Issued For:
REVIEW
7-31-03
DEVELOPER REVIEW
10-15-03
SOFFITS
10-24-03
PERMIT/BIDS
2-9-04

Developer:
FIELEK LAND DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON APARTMENTS

LESLIE, MICHIGAN

Sheet Title:
FIRST & SECOND FLOOR PLANS UNIT TYPE 'B'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 7-31-03
Sheet Number:

A2.2



NOTE TO ALL CONTRACTORS :

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Issued For:

REVIEW
7-31-03

DEVELOPER REVIEW
10-15-03

SOFFITS
10-24-03

PERMIT/BIDS
2-9-04

Developer:

**FILEK LAND
DEVELOPMENT, L.L.C.**
South Lyon, Mi.

Project:

**WORTHINGTON
APARTMENTS**

LESLIE, MICHIGAN

Sheet Title:

**FIRST & SECOND
FLOOR PLANS
UNIT TYPE 'C'**

Project Number: 03-161

Drawn: SM

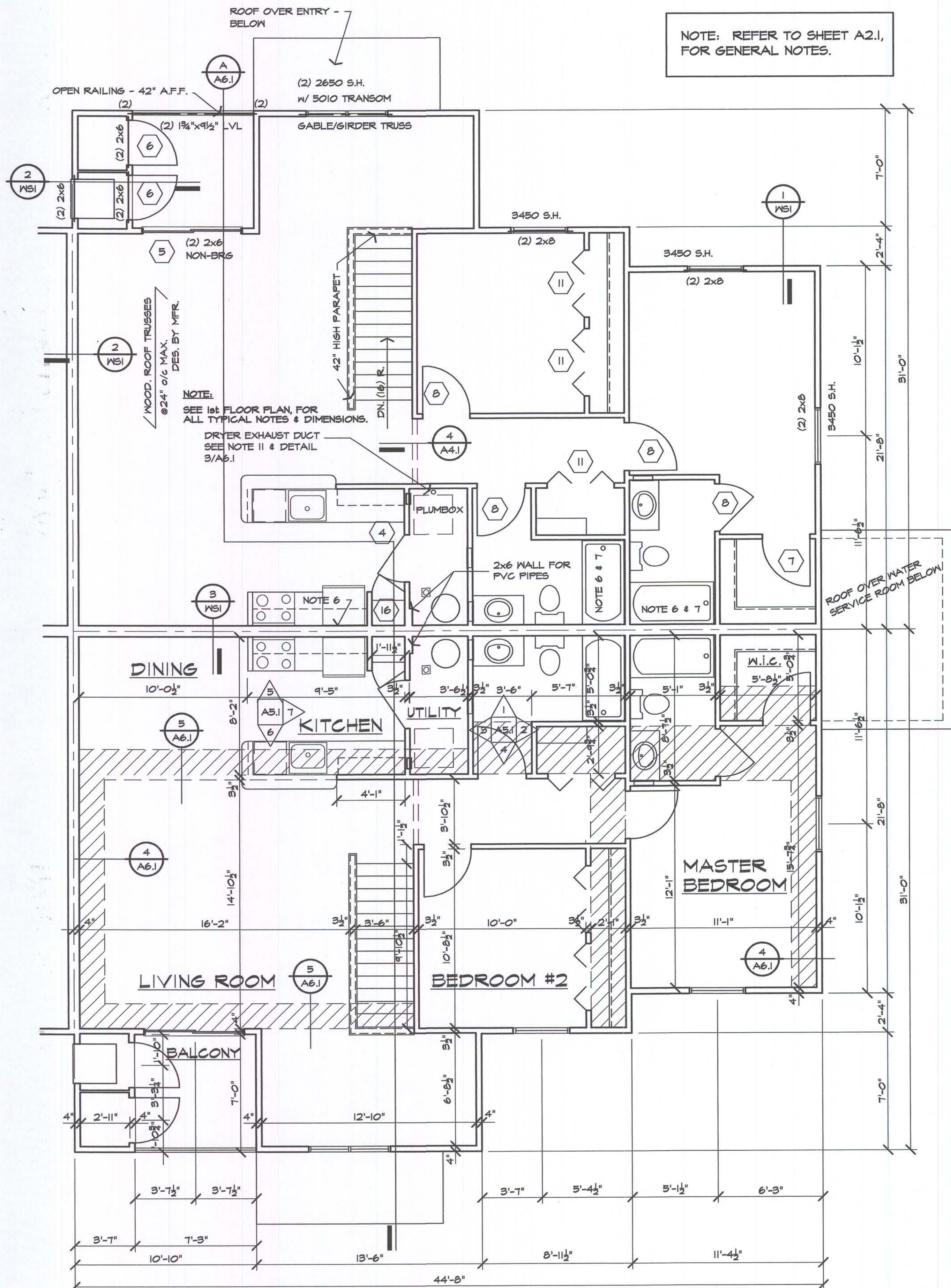
Checked: GA

Date: 7-31-03

Sheet Number:

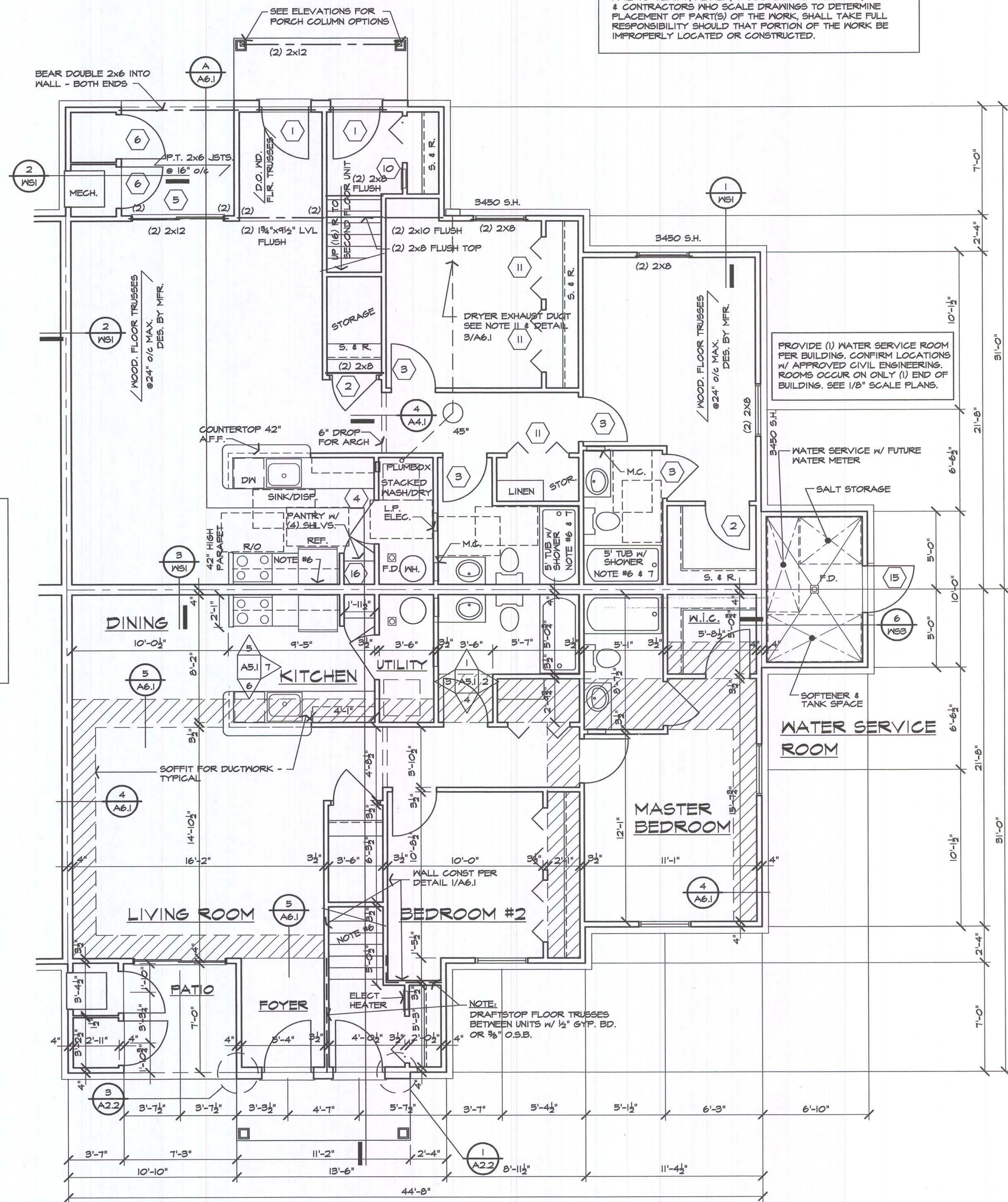
A2.3

NOTE: REFER TO SHEET A2.1,
FOR GENERAL NOTES.



2 SECOND FLOOR PLAN
A2.3 1138 sq. ft.
SCALE: 1/4" = 1'-0"

NOTE:
UNIT SQUARE FOOTAGE IS TO
PAINT LINE & INCLUDES UNIT HVAC
& EXTERIOR STORAGE SPACE.



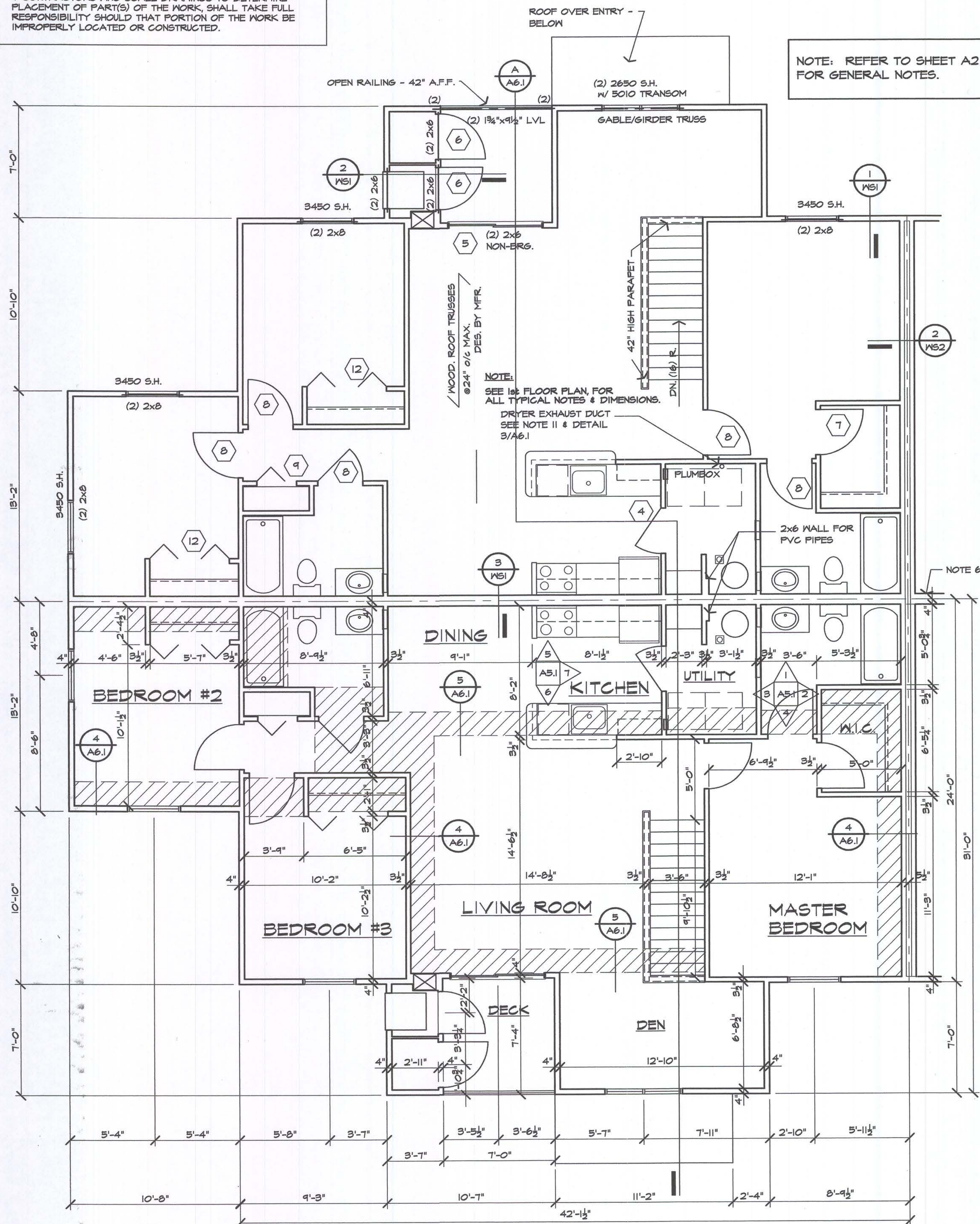
1 FIRST FLOOR PLAN
A2.3 1039 sq. ft.
SCALE: 1/4" = 1'-0"



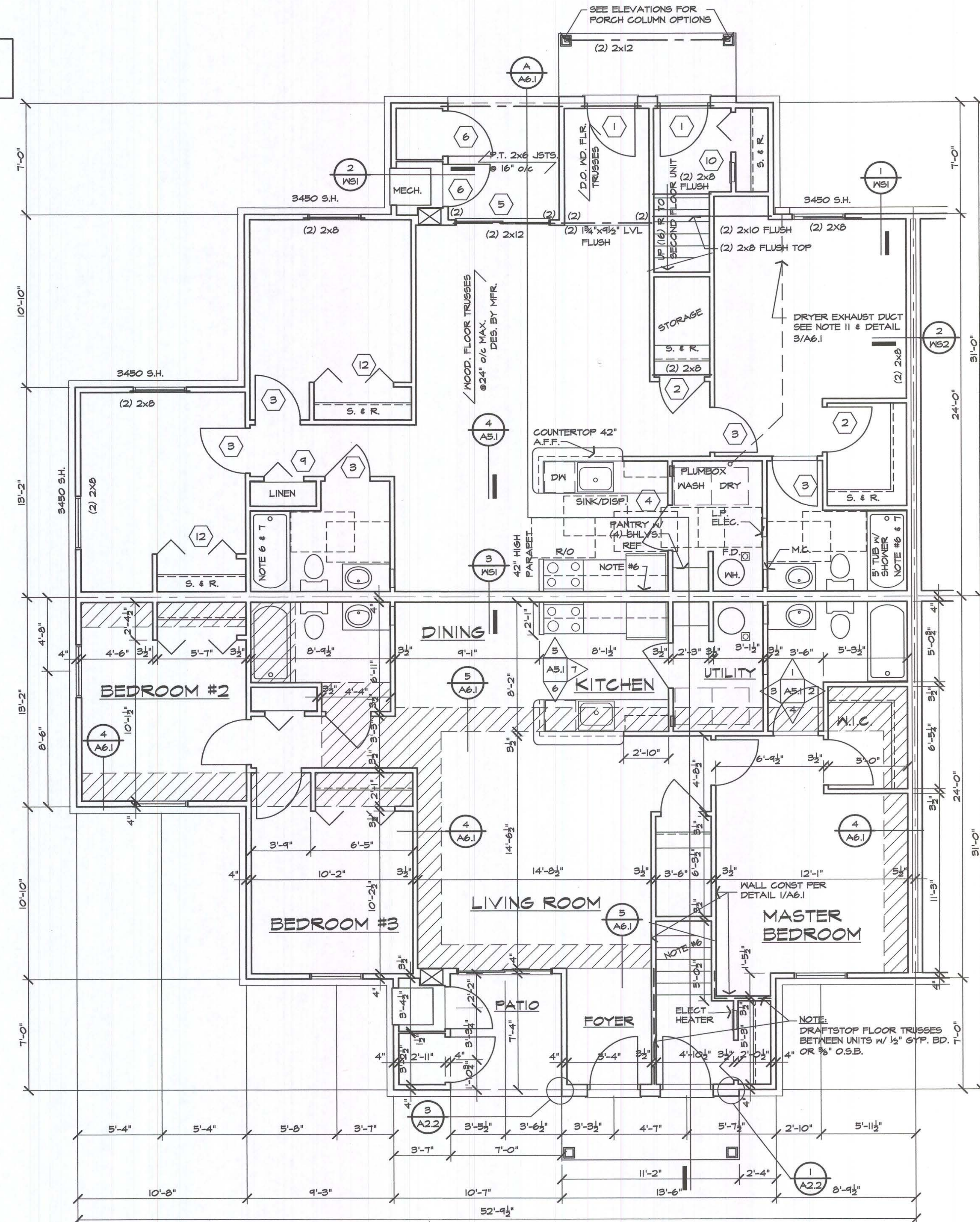
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NOTE: REFER TO SHEET A2.1, FOR GENERAL NOTES.



NOTE:
UNIT SQUARE FOOTAGE IS TO PAINT LINE & INCLUDES UNIT HVAC & EXTERIOR STORAGE SPACE.



Issued For:	REVIEW
	7-31-03
DEVELOPER REVIEW	10-15-03
SOFFITS	10-24-03
PERMIT/BIDS	2-9-04

Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

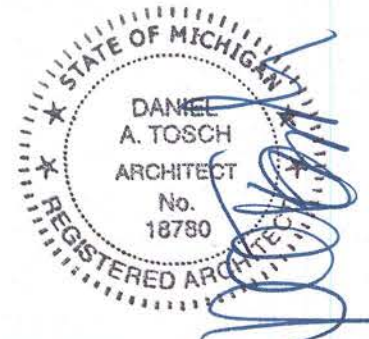
Project:
WORTHINGTON
APARTMENTS

LESLEIE, MICHIGAN
Sheet Title:

FIRST & SECOND
FLOOR PLANS
UNIT TYPE 'D'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 7-31-03
Sheet Number:

A2.4



Issued For:
REVIEW
7-31-03

DEVELOPER REVIEW
10-15-03

PERMIT/BIDS
2-9-04

NOTE TO ALL CONTRACTORS :

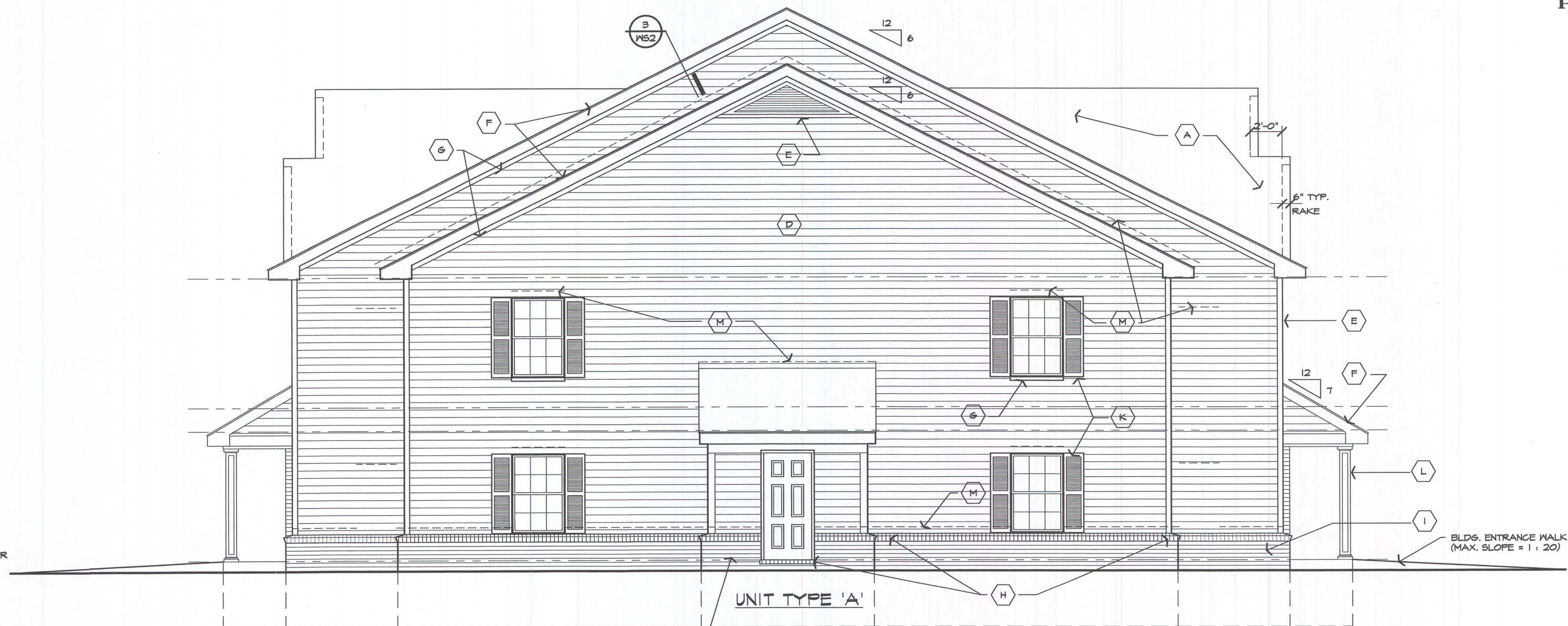
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MATERIAL LEGEND

- A COMPOSITION SHINGLES
- B MET. DRIP EDGE & GUTTER ON 2x6 FASCIA
- C 2x6 FRIEZE
- D HORIZONTAL SIDING
- E 4" VINYL CORNER
- F MET. DRIP EDGE ON 2x6 RAKE BD.
- G 2 1/2" VINYL TRIM
- H BRICK ROWLOCK SILL
- I BRICK
- J 'CULTURED' STONE
- K 15" SHUTTERS
- L 8" x 8" PRE-FIN. STRUCTURAL ALUMINUM PANEL COLUMN ALT. - P.T. 4x4 WD. POST WRAPPED W/ 1x CEDAR - PAINT/STAIN
- M MET. FLASHING
- N METAL RAILING ALT. - PVC COATED STRUCTURAL RAILING
- P NOM. 24" HIGH GABLE LOUVER PROV. MIN. 326 SQ. IN. F.A. NON - VENTING @ BLDG. ENDS - PAINT TO MATCH TRIM
- Q 2x TRIM - ALUM. WRAPPED
- R 2x4 TRIM - ALUM. WRAPPED
- S 1x TRIM - ALUM. WRAPPED

GENERAL NOTES:

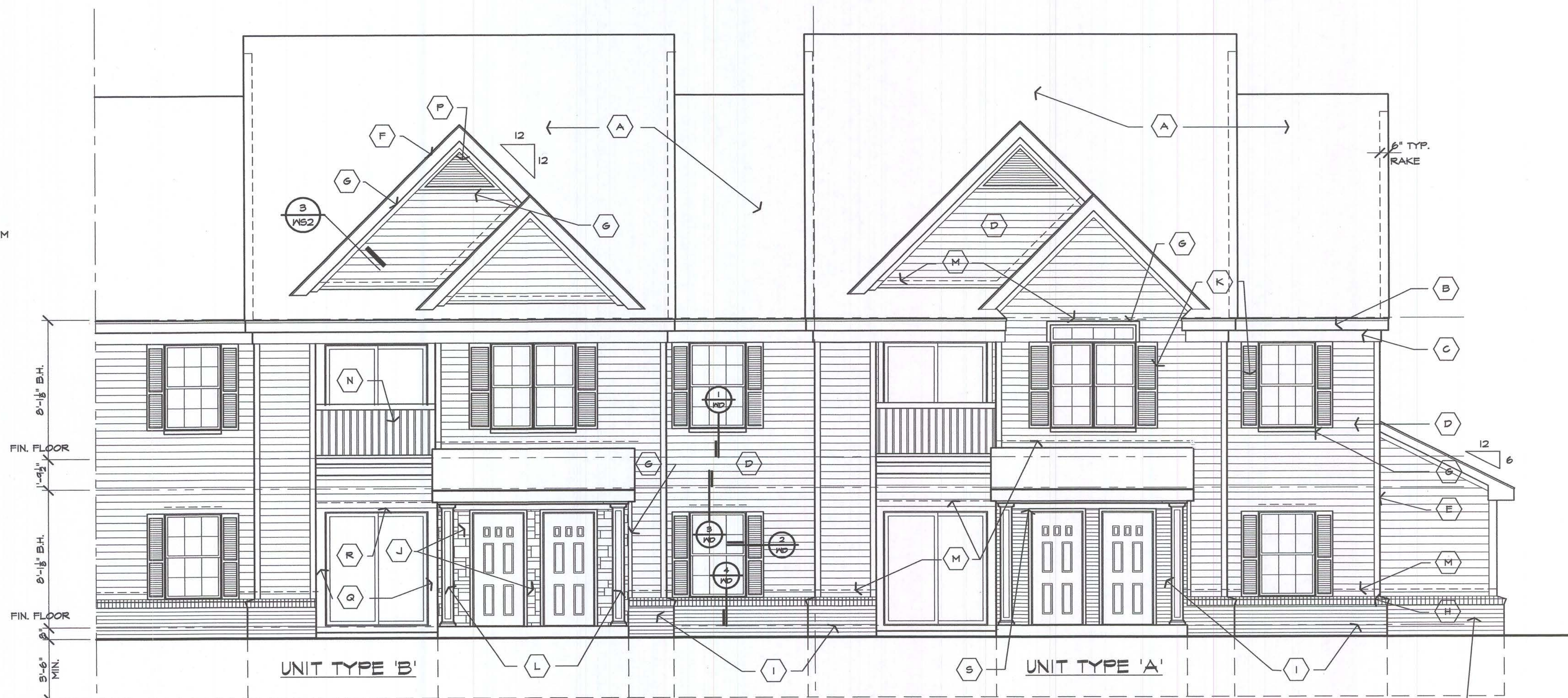
1. ALL EXTERIOR WOOD TRIM IS TO BE WRAPPED WITH VINYL COATED 'BREAK-METAL' ALUMINUM.
2. ALL ROOF JACKS, PLUMBING STACKS, & MISC. ROOF PENETRATIONS SHALL BE PREFINISHED OR PAINTED TO MATCH SHINGLES.



2 END ELEVATION
A3.1
SCALE: 1/4" = 1'-0"

WATER SERVICE ROOM - SEE COMPOSITE BUILDING PLANS, FOR LOCATIONS.

NOTE:
REFER TO COMPOSITE BUILDING ROOF PLANS, FOR ATTIC VENTILATION.



1 FRONT ELEVATION
A3.1
SCALE: 1/4" = 1'-0"

WATER SERVICE ROOM - SEE COMPOSITE BUILDING PLANS, FOR LOCATIONS.

Developer:

FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:

WORTHINGTON
APARTMENTS

LESLIE, MICHIGAN

Sheet Title:

FRONT
ELEVATIONS
UNIT TYPES 'A' & 'B'

Project Number: 03-161

Drawn: SM

Checked: GA

Date: 7-31-03

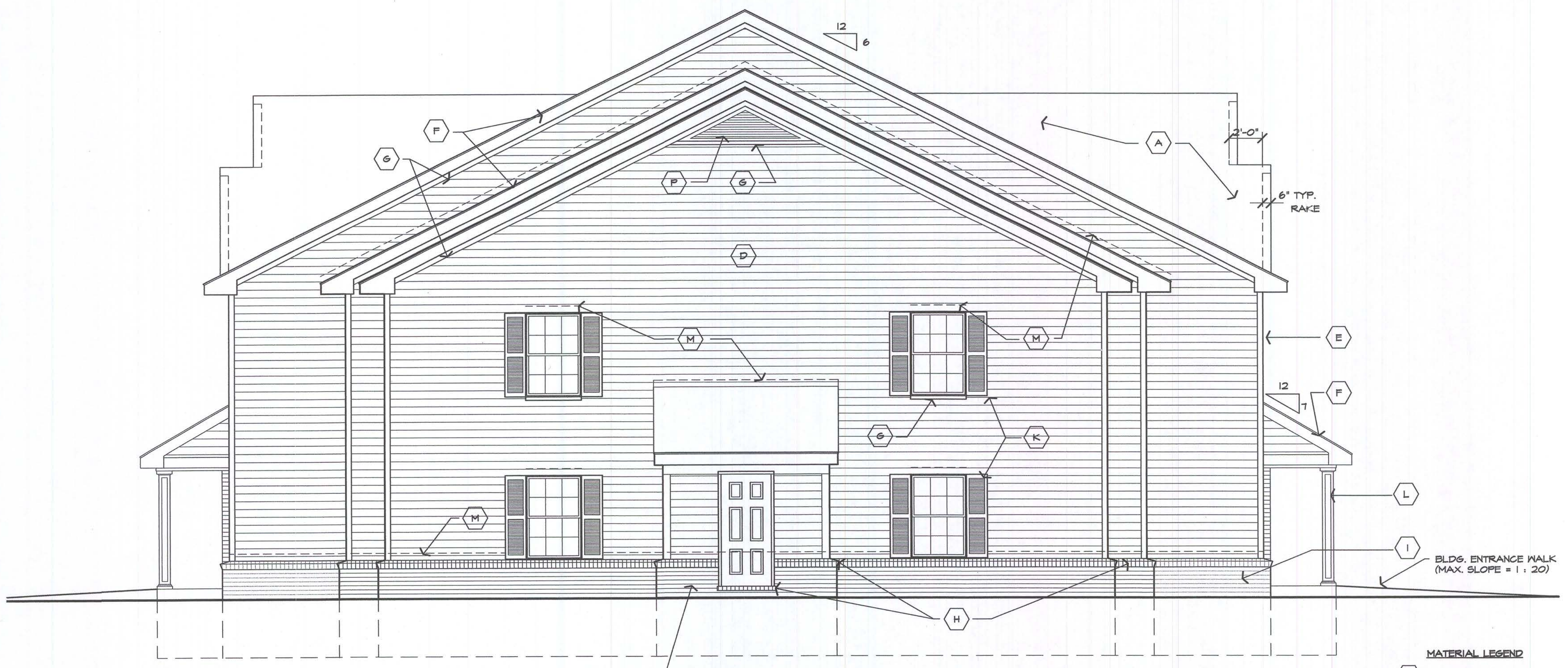
Sheet Number:

A3.1



Issued For:	REVIEW
	7-31-03
	DEVELOPER REVIEW
	10-15-03
	PERMIT/BIDS
	2-9-04

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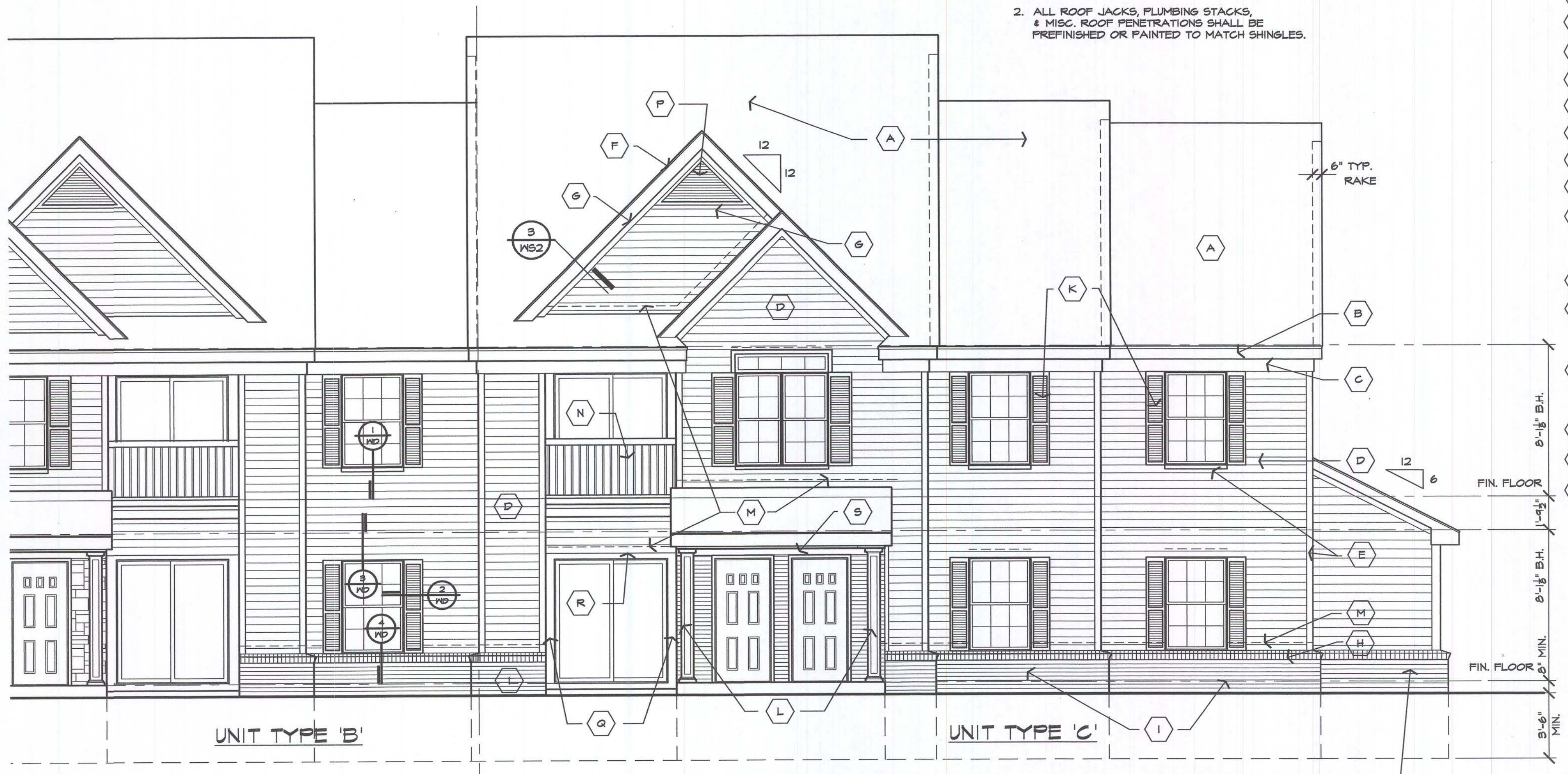


NOTE:
REFER TO COMPOSITE BUILDING ROOF PLANS, FOR ATTIC VENTILATION.

WATER SERVICE ROOM - SEE COMPOSITE BUILDING PLANS, FOR LOCATIONS.

- GENERAL NOTES:**
- ALL EXTERIOR WOOD TRIM IS TO BE WRAPPED WITH VINYL COATED 'BREAK-METAL' ALUMINUM.
 - ALL ROOF JACKS, PLUMBING STACKS, & MISC. ROOF PENETRATIONS SHALL BE PREFINISHED OR PAINTED TO MATCH SHINGLES.

- MATERIAL LEGEND**
- A COMPOSITION SHINGLES
 - B MET. DRIP EDGE & GUTTER ON 2x8 FASCIA
 - C 2x8 FRIEZE
 - D HORIZONTAL SIDING
 - E 4" VINYL CORNER
 - F MET. DRIP EDGE ON 2x8 RAKE BD.
 - G 2 1/2" VINYL TRIM
 - H BRICK ROWLOCK SILL
 - I BRICK
 - J 'CULTURED' STONE
 - K 15" SHUTTERS
 - L 6" x 6" PRE-FIN. STRUCTURAL ALUMINUM PANEL COLUMN ALT. - P.T. 4x4 WD. POST WRAPPED, 1x CEDAR - PAINT/STAIN
 - M MET. FLASHING
 - N METAL RAILING ALT. - PVC COATED STRUCTURAL RAILING
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 - Q 2x TRIM - ALUM. WRAPPED
 - R 2x4 TRIM - ALUM. WRAPPED
 - S 1x TRIM - ALUM. WRAPPED



UNIT ENTRY ELEVATION
SCALE: 1/4" = 1'-0"

WATER SERVICE ROOM - SEE COMPOSITE BUILDING PLANS, FOR LOCATIONS.

Developer:
FIELEK LAND DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON APARTMENTS

LESLIE, MICHIGAN
Sheet Title:
ELEVATIONS UNIT TYPE 'C'

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 7-31-03
Sheet Number:

A3.2



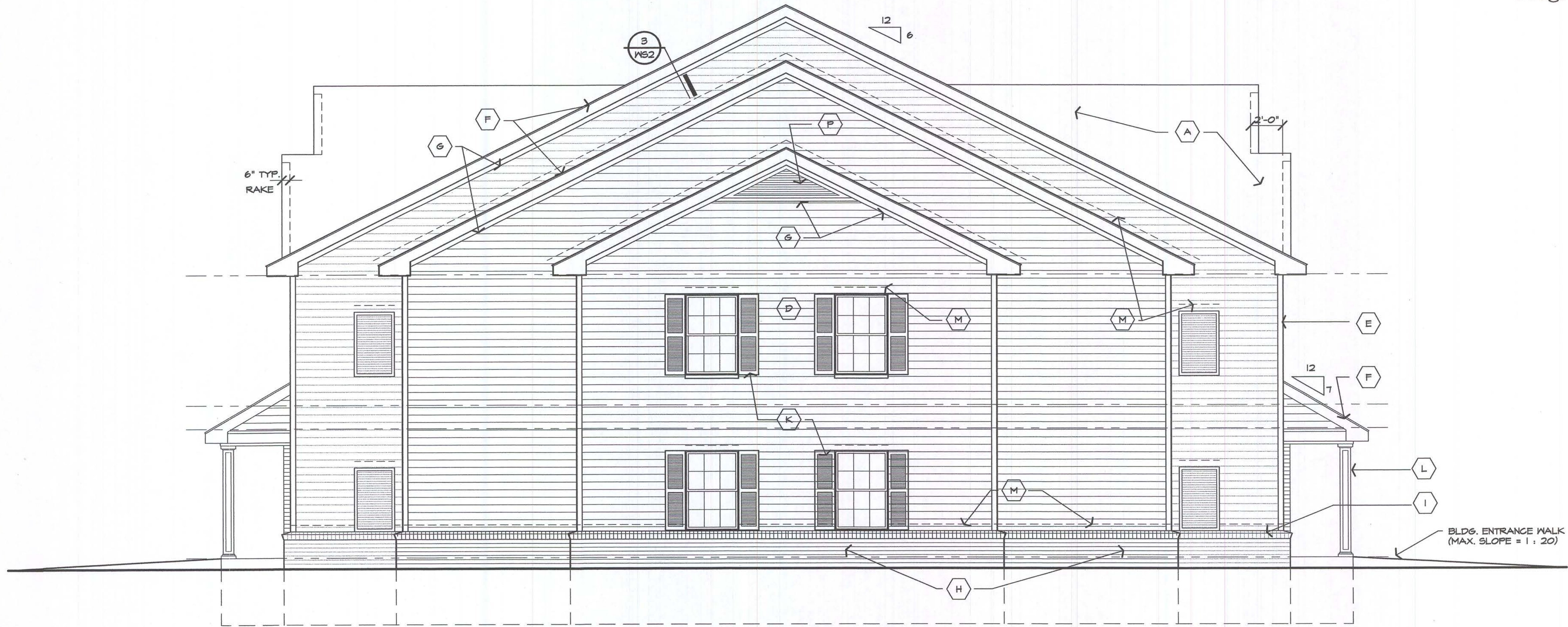
Issued For:
REVIEW
7-31-03

DEVELOPER REVIEW
10-15-03

PERMIT/BIDS
2-9-04

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2 END ELEVATION
A3.3
SCALE: 1/4" = 1'-0"

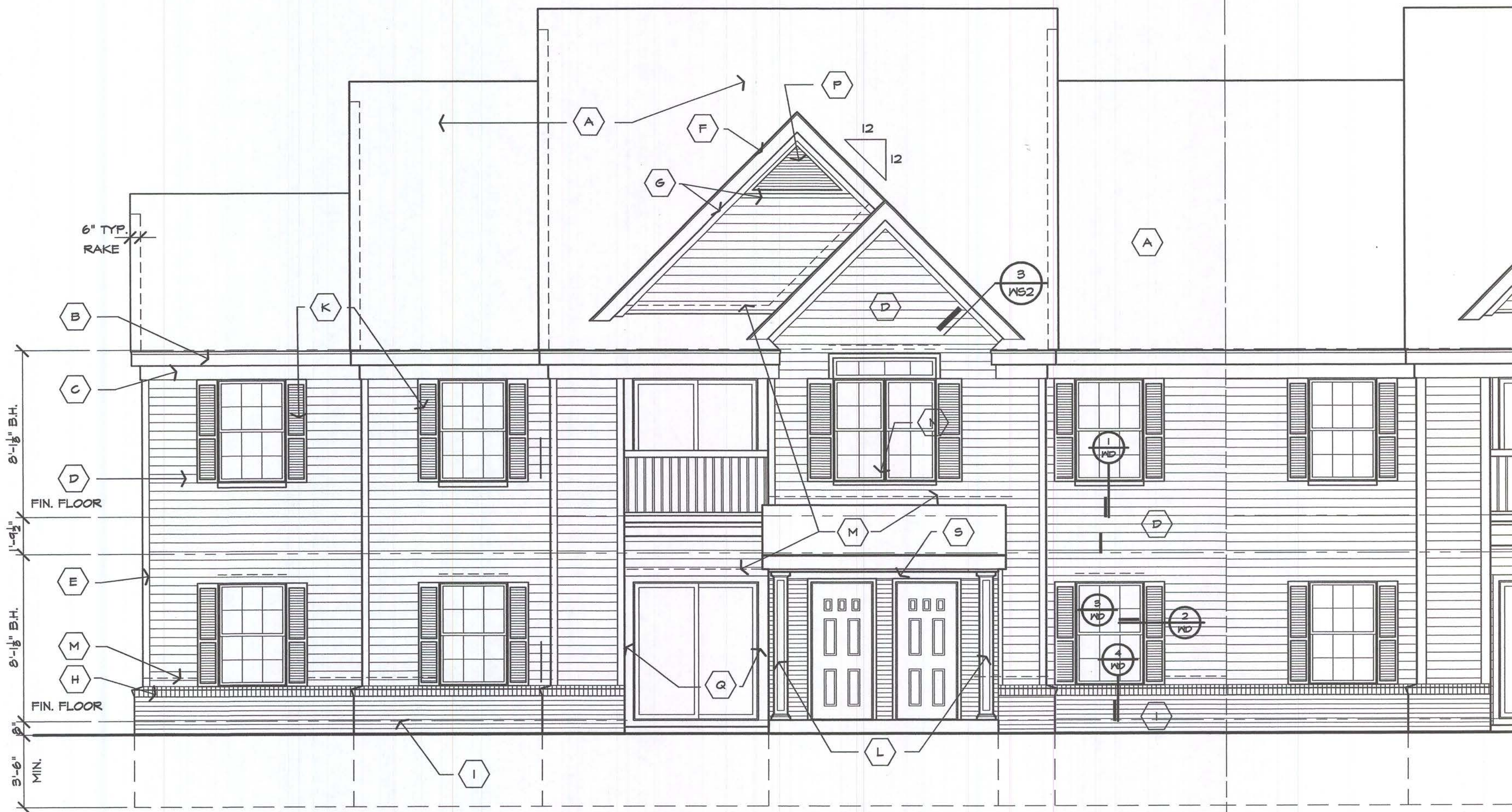
NOTE:
REFER TO COMPOSITE BUILDING ROOF PLANS
FOR ATTIC VENTILATION.

MATERIAL LEGEND

- A COMPOSITION SHINGLES
- B MET. DRIP EDGE & GUTTER ON 2x8 FASCIA
- C 2x8 FRIEZE
- D HORIZONTAL SIDING
- E 4" VINYL CORNER
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- G 2 1/2" VINYL TRIM
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- Q 2x TRIM - ALUM. WRAPPED
- R 2x4 TRIM - ALUM. WRAPPED
- S 1x TRIM - ALUM. WRAPPED

GENERAL NOTES:

1. ALL EXTERIOR WOOD TRIM IS TO BE WRAPPED WITH VINYL COATED 'BREAK-METAL' ALUMINUM.
2. ALL ROOF JACKS, PLUMBING STACKS, & MISC. ROOF PENETRATIONS SHALL BE PREFINISHED OR PAINTED TO MATCH SHINGLES.



1 UNIT ENTRY ELEVATION
A3.3
SCALE: 1/4" = 1'-0"

Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:

WORTHINGTON
APARTMENTS

LESLIE, MICHIGAN

Sheet Title:

ELEVATIONS
UNIT TYPE 'D'

Project Number: 03-161

Drawn: SM

Checked: GA

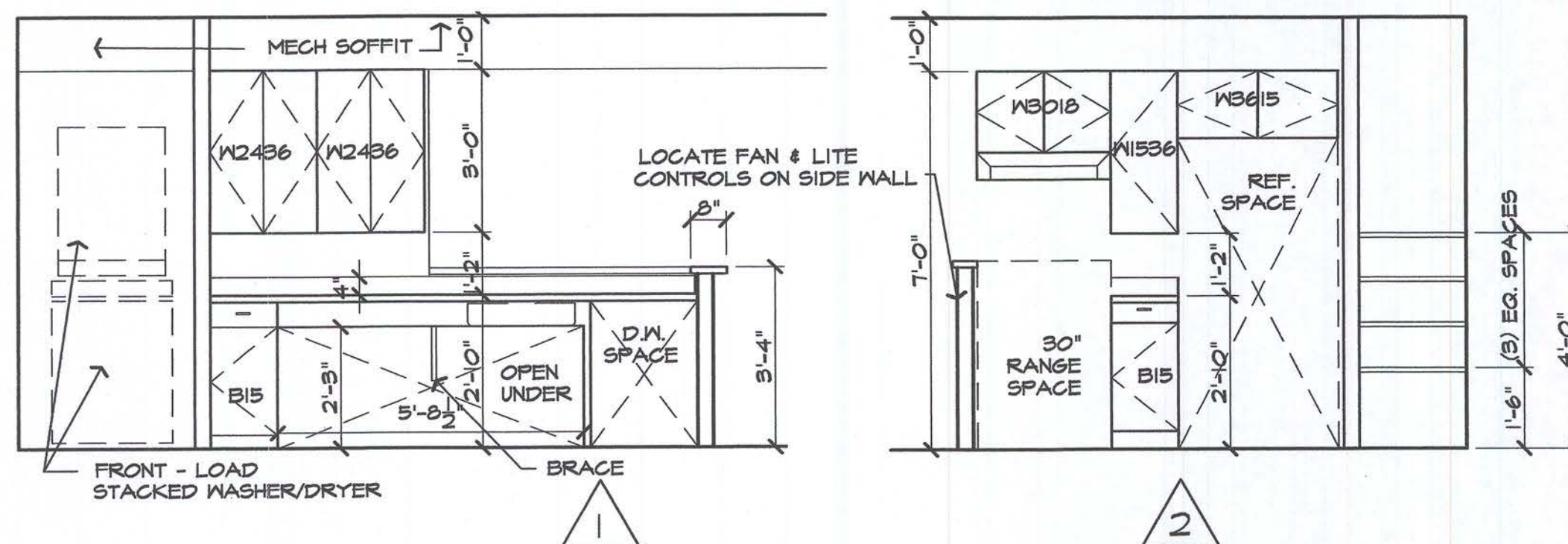
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Sheet Number:

A3.3

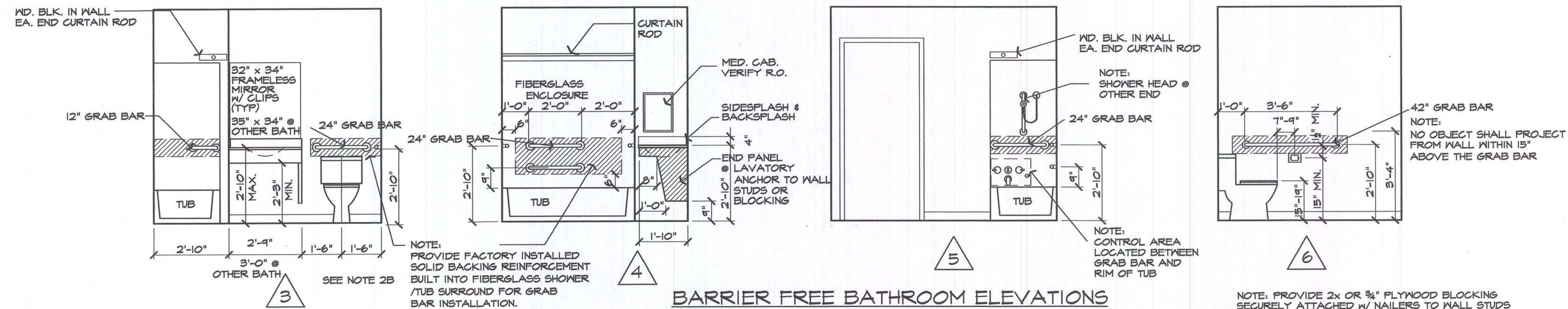
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BARRIER FREE KITCHEN ELEVATIONS

SCALE 3/8"=1'-0" REFER TO GENERAL ACCESSIBILITY NOTES, THIS SHEET.

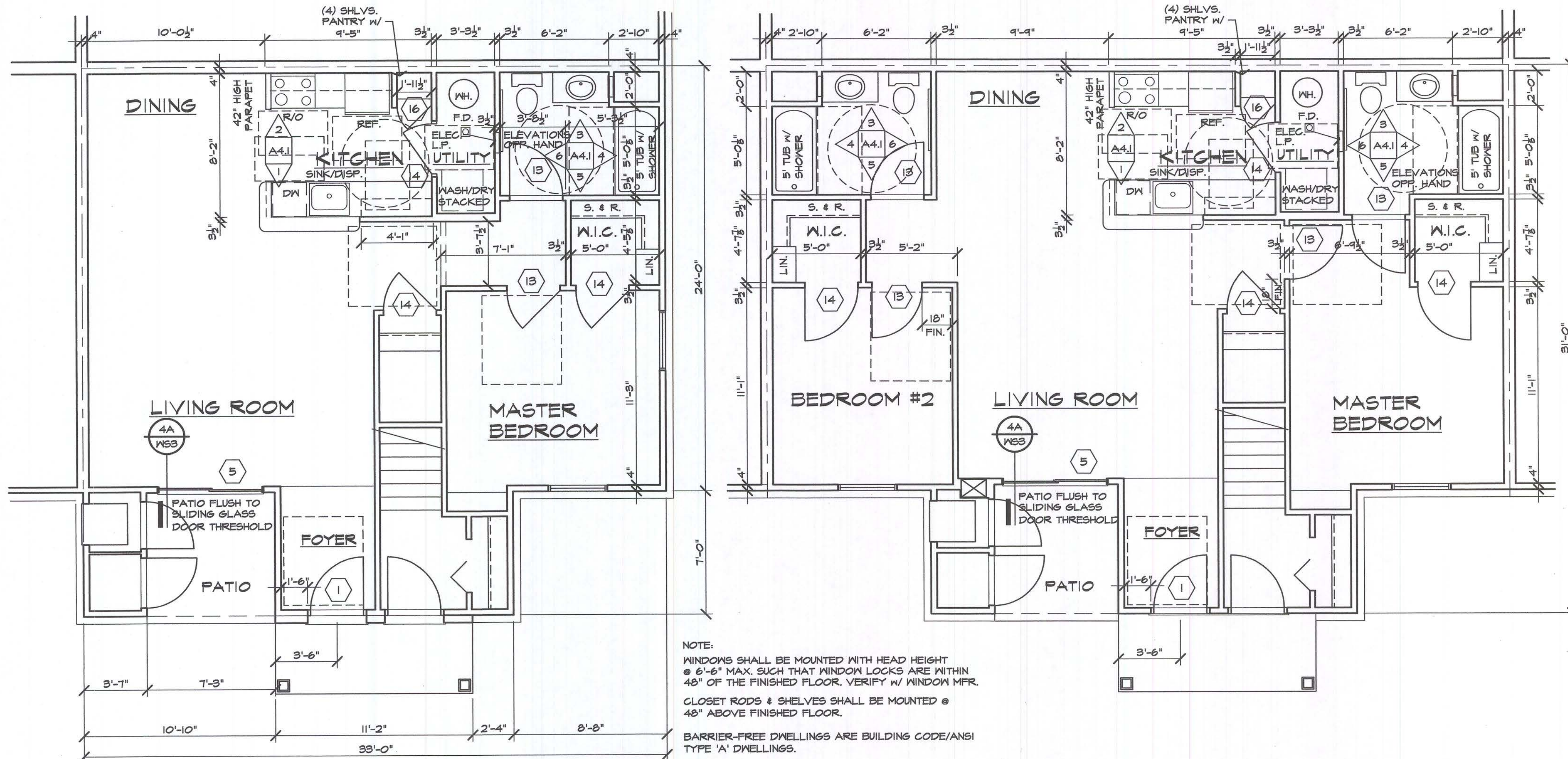


BARRIER FREE BATHROOM ELEVATIONS

SCALE 3/8"=1'-0" REFER TO GENERAL ACCESSIBILITY NOTES, THIS SHEET.

GENERAL ACCESSIBILITY NOTES FOR BARRIER FREE UNITS:

- ALL 1st FLOOR TOILET ROOMS, BATHROOMS, AND KITCHENS SHALL COMPLY w/ ALL FAIR HOUSING ACCESSIBILITY GUIDELINES AS ISSUED BY THE DEPARTMENT OF HOUSING AND URBAN AFFAIRS.
- UNITS INDICATED 'BARRIER FREE' SHALL COMPLY w/ STATE OF MICHIGAN BARRIER FREE DESIGN LAW, AS ISSUED BY THE BUREAU OF CONSTRUCTION CODES & APPLICABLE SECTIONS OF ICC/ANSI A117.1-98, FOR TYPE 'A' DWELLINGS.
- GRAB BARS SHALL BE 1 1/2" OD WITH 1 1/2" CLEARANCE BETWEEN BAR AND WALL. PROVIDE SOLID BLOCKING IN WALL AT HANDRAIL AND ANCHOR RAIL SO AS TO WITHSTAND A VERTICAL AND HORIZONTAL FORCE OF 250 POUNDS w/ MAX. DEFLECTION OF 1/2". ALL GRAB BARS SHALL HAVE A 'NON-SLIP' FINISH. - SEE NOTE K.
- ALL FAUCETS TO HAVE LEVER OR PUSH-BUTTON TYPE CONTROLS - 2" MIN. LEVERS OR 5# MAX. PRESSURE TO OPERATE PUSHBUTTON. WATER SUPPLY & DRAIN PIPES UNDER LAVATORIES & SINKS SHALL BE INSULATED OR OTHERWISE PROTECTED FROM CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACE UNDER LAVATORIES OR SINKS.
- MAX. WATER TEMPERATURE TO WATER OUTLETS SHALL NOT EXCEED 120°F.
- FRONT FACE OF LAVATORIES IN COUNTERS SHALL NOT BE MORE THAN 3" FROM THE FRONT OF THE COUNTER.
- GRAB BARS AND FLOOR OF TUBS SHALL HAVE A SLIP-RESISTANT SURFACE.
- A DUPLEX ELECTRICAL RECEPTACLE (GFI) SHALL BE PROVIDED WITHIN 24 INCHES FROM THE CENTERLINE OF THE BARRIER FREE LAVATORY AND NOT LESS THAN 36" NOR MORE THAN 36" ABOVE THE FINISHED FLOOR.
- A SHOWER SPRAY UNIT SHALL BE PROVIDED WITH A HOSE 60" LONG MIN. THAT CAN BE USED AS A FIXED SHOWER HEAD OR AS A HAND-HELD SHOWER. BATHTUB CONTROLS SHALL BE LOCATED IN THE AREA BETWEEN THE TOP EDGE OF THE TUB AND THE GRAB BAR.
- TOILET ROOM ACCESSORIES SUCH AS TONEL BARS, SHALL BE MOUNTED @ 40" A.F.F. AT LEAST ONE MIRROR SHALL BE MOUNTED w/ THE BOTTOM EDGE @ 36" A.F.F. MAX.
- DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR THAT DO NOT ALLOW CONTINUOUS PAPER FLOW.
- WATER CLOSET FLUSH VALVE SHALL BE TO THE WIDE SIDE OF THE TOILET AREA.
- GRAB BARS ARE NOT REQUIRED, PROVIDING REINFORCEMENT HAS BEEN CONSTRUCTED IN WALLS TO PERMIT THE INSTALLATION OF FUTURE GRAB BARS.
- ACCESS PANELS NOT REQUIRED WHEN VALVES/FAUCETS ARE SERVICEABLE FROM THE FRONT.
- LIGHTING PANEL (L.P.): PROVIDE ONE (1) LIGHTING PANEL PER DWELLING UNIT AS LOCATED ON PLAN. COORDINATE w/ ELECTRICAL TRADES.
- PROVIDE TWO (2) TONEL BARS IN EACH TOILET/BATH ROOM. VERIFY LOCATION WITH DEVELOPER. SEE ABOVE ELEVATIONS.
- PROVIDE SOLID WOOD BLOCKING AS REQUIRED IN WALL AT ALL ITEMS TO BE ATTACHED TO THE WALL.
- OPERABLE PARTS OF EQUIPMENT AND APPLIANCES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LB MAXIMUM.
- SIDE-BY-SIDE COMBINATION FREEZER AND REFRIGERATOR APPLIANCES SHALL HAVE AT LEAST 50% OF THE FREEZER SPACE & 50% OF THE REFRIGERATOR SPACE LOCATED 54" MAX. ABOVE FLOOR. OTHER COMBINATION REFRIGERATOR/FREEZERS SHALL HAVE 50% OF THE FREEZER & 100% OF THE REFRIGERATOR SPACE AND CONTROLS 54" MAX. A.F.F. FREEZERS WITH AREA HIGHER THAN 54" OR LOWER THAN 15" SHALL BE THE SELF-DEFROSTING TYPE.
- ALL CLOTHES RODS SHALL BE AT 48" MAX. ABOVE FINISH FLOOR.
- THE LOCATION OF CONTROLS FOR RANGES SHALL NOT REQUIRE REACHING ACROSS BURNERS.
- WASHING MACHINE & CLOTHES DRYER IN BARRIER FREE UNIT SHALL BE FRONT LOADING.



BARRIER FREE - UNIT TYPE 'A'

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

BARRIER FREE - UNIT TYPE 'B'

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

838 W. Long Lake #250
Bloomfield Hills, MI 48302
248 540-5940 Fax 248 540-4820
Email: pai@progressiveassociates.com



Issued For:
DEVELOPER REVIEW
10-15-03
PERMIT/BIDS
2-9-04

Developer:
FIELEK BUILDERS, L.L.C.
South Lyon, Mi.

Project:

WORTHINGTON APARTMENTS

LESLIE, MICHIGAN

Sheet Title:

BARRIER FREE UNIT PLANS & INTERIOR ELEVATIONS

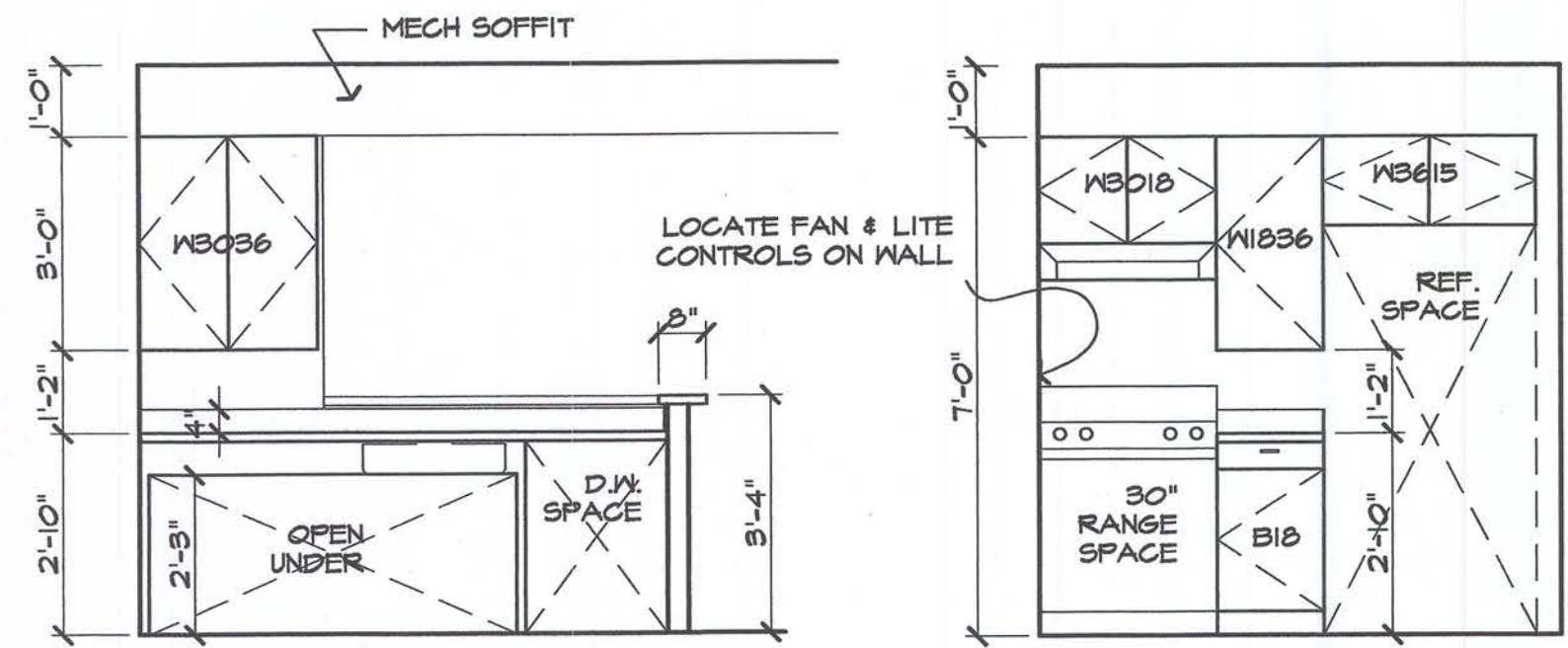
Project Number: 03-161
Drawn: SM
Checked: GA
Date: 10-15-03
Sheet Number:

A4.1

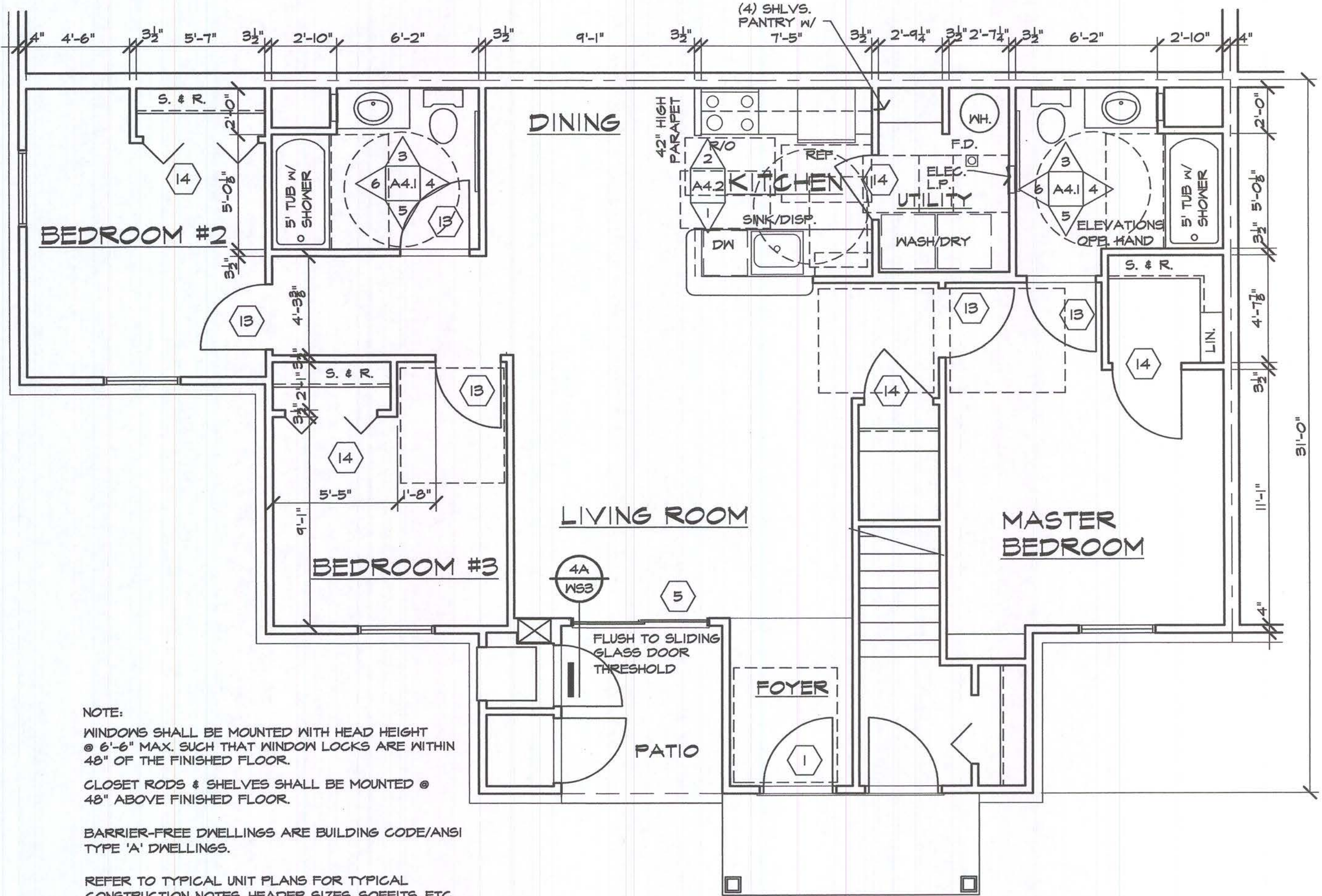


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BARRIER FREE KITCHEN ELEVATIONS
SCALE 3/8" = 1'-0" REFER TO GENERAL ACCESSIBILITY NOTES, SHEET A4.1.



NOTE:
WINDOWS SHALL BE MOUNTED WITH HEAD HEIGHT @ 6'-6" MAX. SUCH THAT WINDOW LOCKS ARE WITHIN 48" OF THE FINISHED FLOOR.
CLOSET RODS & SHELVES SHALL BE MOUNTED @ 48" ABOVE FINISHED FLOOR.
BARRIER-FREE DWELLINGS ARE BUILDING CODE/ANSI TYPE 'A' DWELLINGS.
REFER TO TYPICAL UNIT PLANS FOR TYPICAL CONSTRUCTION NOTES, HEADER SIZES, SOFFITS, ETC.
REFER TO DRAWING A 4.1 FOR GENERAL ACCESSIBILITY NOTES

BARRIER FREE - UNIT TYPE 'D6f'
SCALE: 1/4" = 1'-0"

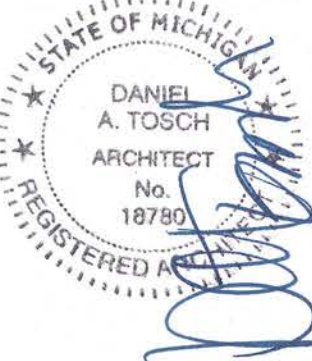
Developer:
FIELEK LAND
DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:
WORTHINGTON
APARTMENTS

Sheet Title:
BARRIER FREE
UNIT PLANS &
INTERIOR ELEVATIONS.

Project Number: 03-161
Drawn: SM
Checked: GA
Date: 10-15-03
Sheet Number:

A4.2



Issued For:
REVIEW
7-31-03

DEVELOPER REVIEW
10-15-03

PERMIT/BIDS
2-9-04

ROOM FINISH SCHEDULE						
ROOM	FLOOR	BASE	WALL	WALL / CEILING FINISH	CEILING	REMARKS
FOYER	VCT	PAINTED WOOD BASE	DRYWALL	PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
LIVING	CARPET	PAINTED WOOD BASE	DRYWALL	PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
DINING	CARPET	PAINTED WOOD BASE	DRYWALL	PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
BEDROOMS	CARPET	PAINTED WOOD BASE	DRYWALL	PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
KITCHEN	VCT	PAINT WD BASE W/ SHOE MLD	DRYWALL	SEMI-GLOSS PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
BATH	RESILIENT	PAINT WD BASE W/ SHOE MLD	DRYWALL	SEMI-GLOSS PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
UTILITY	VCT	PAINTED WOOD BASE	DRYWALL	SEMI-GLOSS PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS
STORAGE	VCT	PAINT WD BASE W/ SHOE MLD	DRYWALL	PAINT	DRYWALL	KNOCK DOWN TEXTURE WALLS & CEILGS

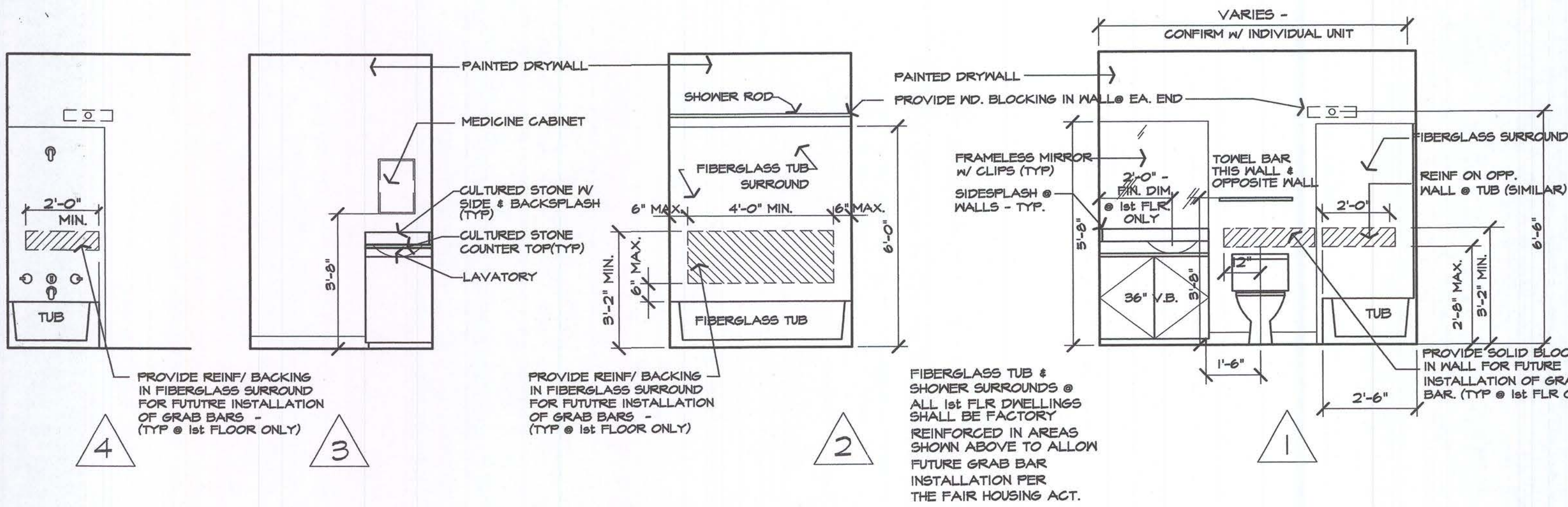
NOTES:

1. VERIFY ADHESIVE TYPE & MANUFACTURER W/ FLOOR TOPPING MANUFACTURER FOR COMPATIBILITY.
2. PROVIDE A CARPET STRIP WHERE CARPET & DISSIMILAR FLOOR MATERIALS MEET.
3. PROVIDE FLOOR SURFACE CONDITIONER/SEALER OVER GYPSUM TOPPING AS RECOMMENDED BY THE GYPSUM TOPPING MANUFACTURER.
4. VCT SHALL BE 12"x12" DRYBACK VINYL TILES
5. CARPET SEAMING LAYOUT SHALL BE APPROVED BY OWNER/ DEVELOPER.

DOOR & FRAME SCHEDULE									
DOOR						FRAME			
NO.	SIZE	THK.	TYPE	MATERIAL	LABEL	MATERIAL	LABEL	THR.	REMARKS
1	3'-0"x6'-8"	1 3/4"	4-PANEL W/ WINDOW	MTL.GLAD/INSUL TEMP/INSUL. GLASS	-	FULL THERMAL BREAK METAL	-	ALUM.	PAINT; PEEP HOLE/MTHRSTRIP
2	2'-10"x6'-8"	1 3/8"	6 PANEL	H.C. WOOD	-	WOOD	-	-	PRE-PRIMED; PASSAGE HANDLESET
3	2'-10"x6'-8"	1 3/8"	6 PANEL	H.C. WOOD	-	WOOD	-	-	PRE-PRIMED; PRIVACY HANDLESET
4	2'-10"x6'-8"	1 3/8"	FLUSH	H.C. WOOD	-	WOOD	-	-	PAINT; 24"x12" LOUVER INSERT; CLOSET LATCHSET; PROVIDE HINGE STOP
5	6'-0"x6'-8"	-	DOORWALL	VINYL OR ALUM.	-	VINYL OR ALUM. (THERMAL BRK.)	-	ALUM.	INSUL. SAFETY GLASS
6	2'-10"x6'-8"	-	FLUSH	MTL.GLAD/INSUL	-	WOOD	-	ALUM.	PAINT TO MATCH BLDG/MTHRSTRIP
7	2'-8"x6'-8"	1 3/8"	6 PANEL	H.C. WOOD	-	WOOD	-	-	PRE-PRIMED; PASSAGE HANDLESET
8	2'-8"x6'-8"	1 3/8"	6 PANEL	H.C. WOOD	-	WOOD	-	-	PRE-PRIMED; SECURITY HANDLESET
9	2'-6"x6'-8"	-	BI-FOLD	LEGACY PANELED	-	-	-	-	PRE-FINISHED
10	3'-0"x6'-8"	-	BI-FOLD	LEGACY PANELED	-	-	-	-	PRE-FINISHED
11	4'-0"x6'-8"	-	BI-FOLD	LEGACY PANELED	-	-	-	-	PRE-FINISHED
12	5'-0"x6'-8"	-	BI-FOLD	LEGACY PANELED	-	-	-	-	PRE-FINISHED
13	3'-0"x6'-8"	1 3/8"	6-PANEL	H.C. WOOD	-	WOOD	-	-	PRE-FINISHED; PRIVACY HANDLESET
14	3'-0"x6'-8"	1 3/8"	6-PANEL	H.C. WOOD	-	WOOD	-	-	PRE-FINISHED; PASSAGE HANDLESET
15	3'-0"x6'-8"	-	FLUSH	MTL.GLAD/INSUL	-	WOOD	-	ALUM.	PAINT TO MATCH BLDG/MTHRSTRIP
16	1'-10"x6'-8"	-	PIVOT	LEGACY PANELED	-	-	-	-	PRE-FINISHED

NOTES:

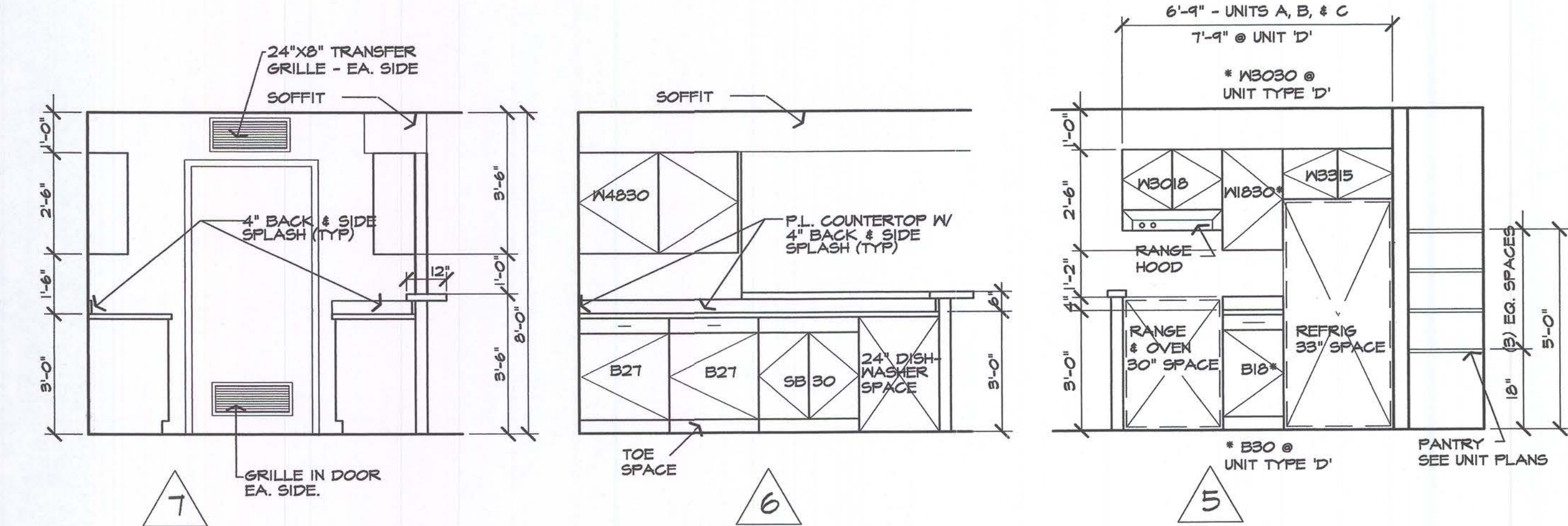
1. ALL DOORS SHALL BE NON-LOCKING IN THE DIRECTION OF EGRESS.
2. ALL UNIT ENTRY DOORS SHALL BE PROVIDED W/ LEVER HANDLESETS, DEAD BOLTS, INCLUDING THUMB TURN.
3. EACH UNIT WILL BE INDIVIDUALLY KEYED WITH NO PROJECT MASTER (NO MASTER KEY). THE CONTRACTOR SHALL PROVIDE A "CONSTRUCTION MASTER KEY" PROVIDED THAT ONCE THE CONSTRUCTION MASTER LOCK IS REMOVED, THE ONLY KEYS THAT WILL OPERATE THE UNIT LOCKS ARE THE INDIVIDUAL KEYS FOR EACH INDIVIDUAL UNIT.
4. ALL UNIT ENTRY DOORS SHALL BE PROVIDED W/ PEEP HOLES, PROVIDE (2) @ BARRIER-FREE UNITS. ADDITIONAL PEEP HOLE TO MOUNTED @ 48" AFF.
5. UNDERCUT ALL BEDROOM DOORS 3/4" FOR RETURN AIR.
6. THRESHOLDS @ ALL ENTRY DOORS SHALL BE MAX. 1/2" HIGH W/ 1(VERT.); 2(HORIZ.) BEVELED EDGES.
7. ALL DOOR HARDWARE FINISHES PER SPECIFICATIONS.
8. SIX PANEL MASONITE DOORS SHALL BE PAINTED WHITE. ALTERNATE: PREFINISHED LIGHT OAK OR WHITE DOORS, AS APPROVED BY THE OWNER/ DEVELOPER.
9. ALL BARRIER FREE SWING DOORS WITHIN DWELLINGS SHALL BE PROVIDED WITH LEVER HANDLE SETS.
10. AT SWINGING WALK-THRU DOORS ASSOCIATED W/ BARRIER FREE UNITS, DOOR SURFACES WITHIN 10 INCHES OF THE FLOOR OR GROUND MEASURED VERT. SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN SUCH SURFACE SHALL BE WITHIN 1/8" OF THE SAME PLANE AS THE OTHER CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CARPED.
11. ALL INTERIOR & EXTERIOR WATER METER, & DWELLING HVAC ROOMS ARE TO BE PROVIDED W/ SECURITY LOCKSETS.



3 BATH ROOM ELEVATIONS

A5.1 SCALE: 3/8" = 1'-0"

NOTE: ALL COUNTER TOPS, SIDESPLASHES, & BACKSPLASHES TO BE CULTURED STONE IN ALL TOILET ROOMS, U.O.N.
NOTE: SOLID BLOCKING SHALL BE MIN. 2x8 WD. BLOCKING OR 3/4" FLYWD W/ NAILERS SECURELY ANCHORED TO WOOD STUDS.

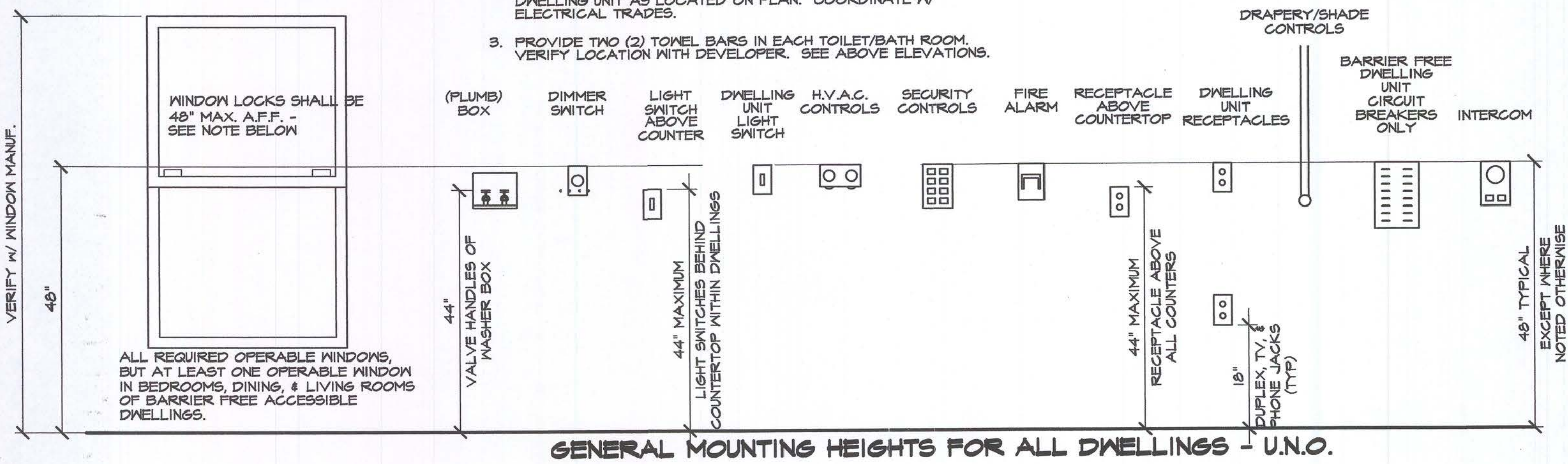


2 KITCHEN ELEVATIONS

A5.1 SCALE: 3/8" = 1'-0"

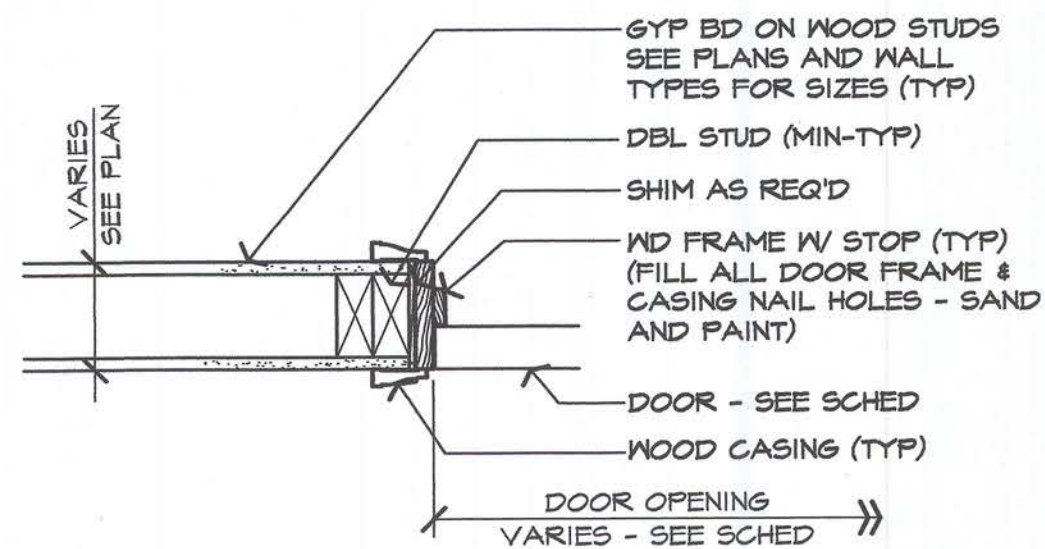
GENERAL NOTES:

1. ALL 1st FLOOR TOILET ROOMS, BATHROOMS, AND KITCHENS SHALL COMPLY WITH ALL FAIR HOUSING ACCESSIBILITY GUIDELINES AS ISSUED BY THE DEPARTMENT OF HOUSING AND URBAN AFFAIRS.
2. LIGHTING PANEL (L.P.): PROVIDE ONE (1) LIGHTING PANEL PER DWELLING UNIT AS LOCATED ON PLAN. COORDINATE W/ ELECTRICAL TRADES.
3. PROVIDE TWO (2) TONEL BARS IN EACH TOILET/BATH ROOM. VERIFY LOCATION WITH DEVELOPER. SEE ABOVE ELEVATIONS.



1 ELECTRICAL/MECHANICAL CONTROL MOUNTING HEIGHTS

A5.1 NO SCALE



4 INTERIOR DOOR JAMB DETAIL

A5.1 SCALE: 1/2" = 1'-0" (HEAD SIM)

Developer:

FIELEK LAND
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South Lyon, MI.

Project:

WORTHINGTON
APARTMENTS

LESLIE, MICHIGAN

Sheet Title:

INTERIOR
ELEVATIONS &
FINISH SCHEDULES

Project Number: 03-161

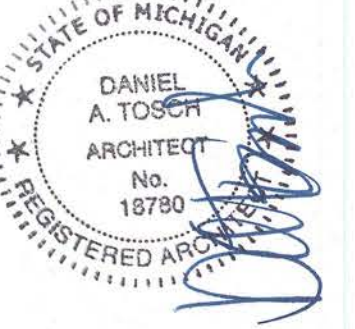
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Date: 7-31-03

Sheet Number:

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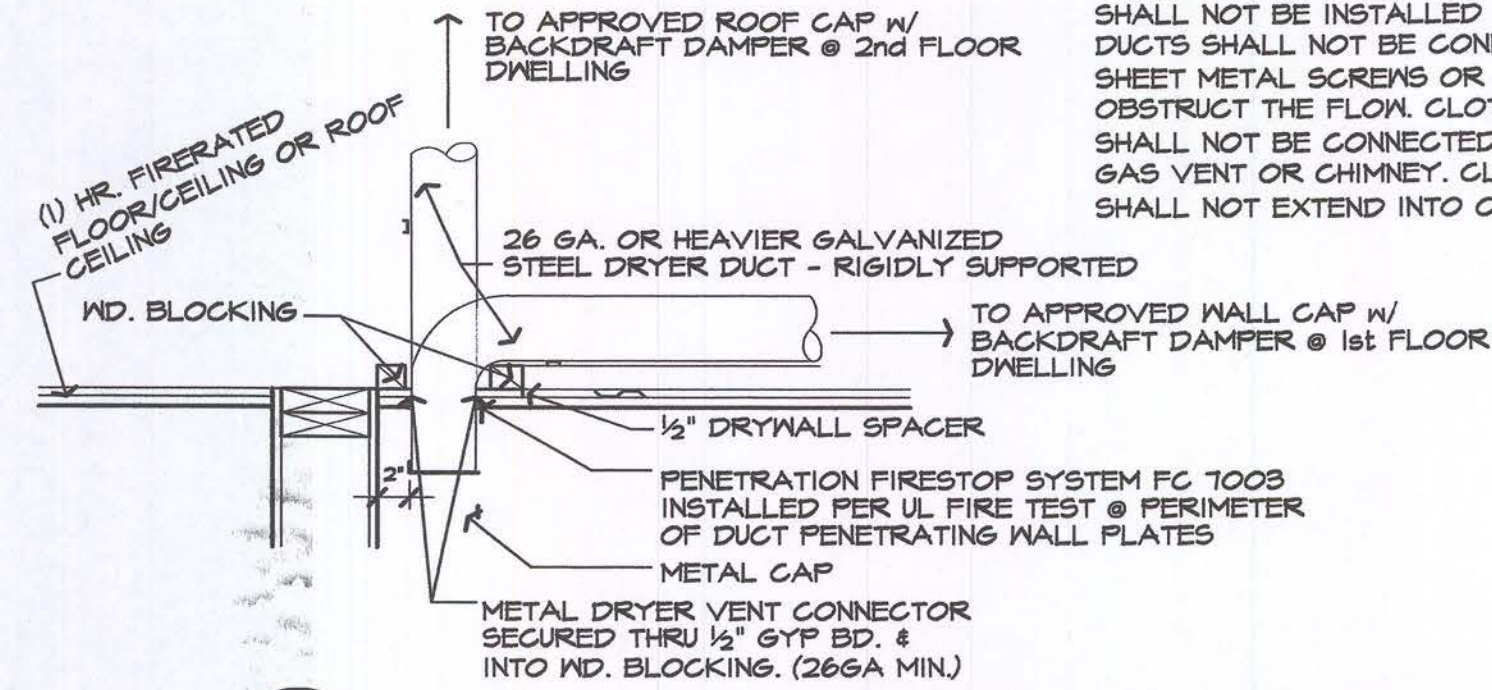
Issued For:
REVIEW
7-31-03
DEVELOPER REVIEW
10-15-03
SOFFITS
10-24-03
PERMIT/BIDS
2-9-04

DRYER EXHAUST DUCT

VERIFY AND COORDINATE DRYER DUCT ROUTING W/ LOCAL BUILDING/MECH. DEPARTMENT. DRYER DUCT SHALL BE 4" RIGID METAL. CAP SHALL HAVE 4" DISCHARGE - SEE MFR'S SPECIFICATIONS. THE LENGTH OF DRYER DUCT - INCLUDING REDUCTIONS - SHALL NOT EXCEED THE MANUFACTURER'S PUBLISHED SPECIFICATIONS FOR THE SPECIFIC DRYER(S) INSTALLED. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION ESTABLISHING ALLOWABLE DRYER DUCT LENGTH.

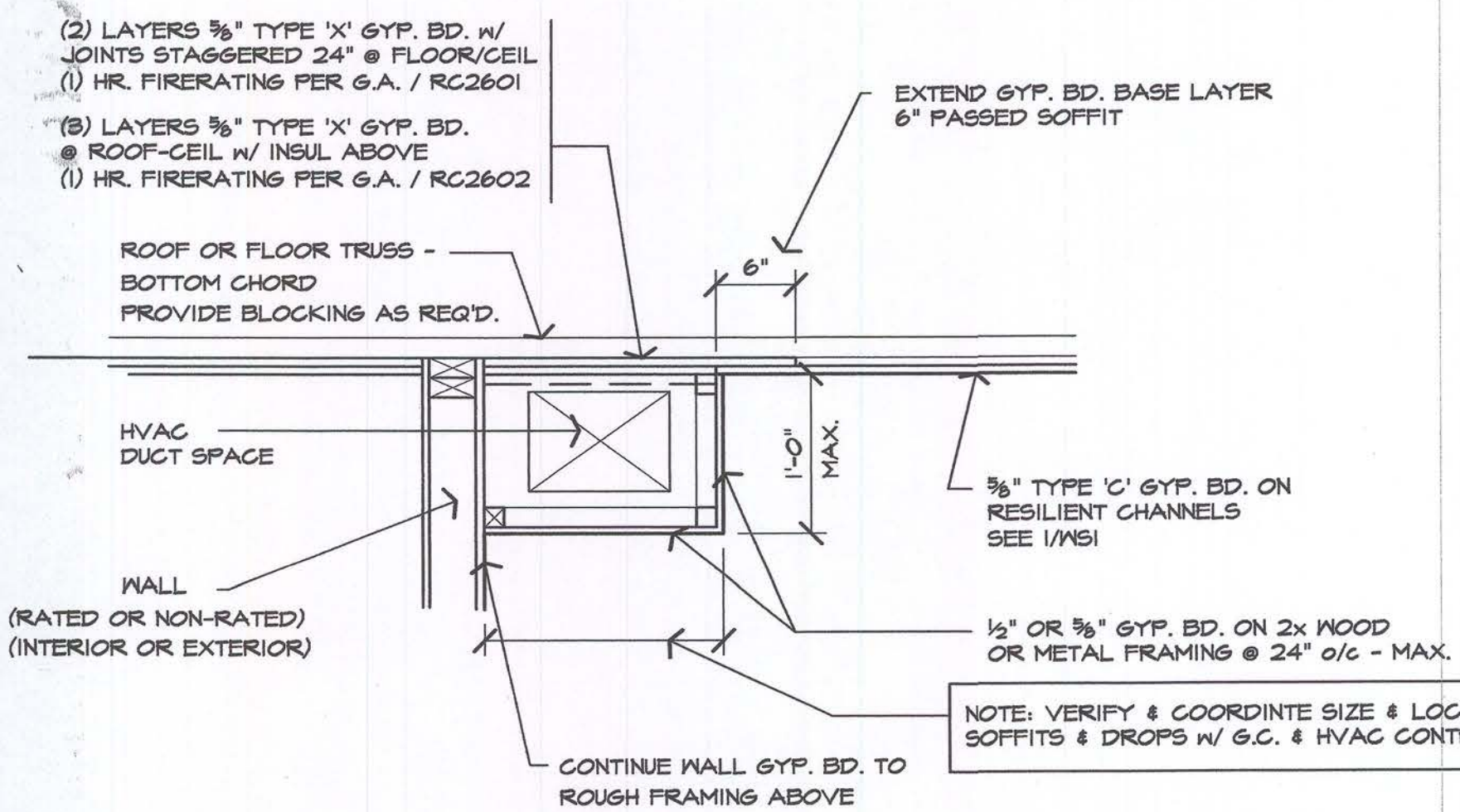
504.4 EXHAUST INSTALLATION

DRYER EXHAUST DUCTS FOR CLOTHES DRYERS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACK DRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE FLOW. CLOTHES DRYER EXHAUST DUCTS SHALL NOT BE CONNECTED TO A GAS VENT CONNECTOR, GAS VENT OR CHIMNEY. CLOTHES DRYER EXHAUST DUCTS SHALL NOT EXTEND INTO OR THROUGH DUCTS OR FLENUMS.



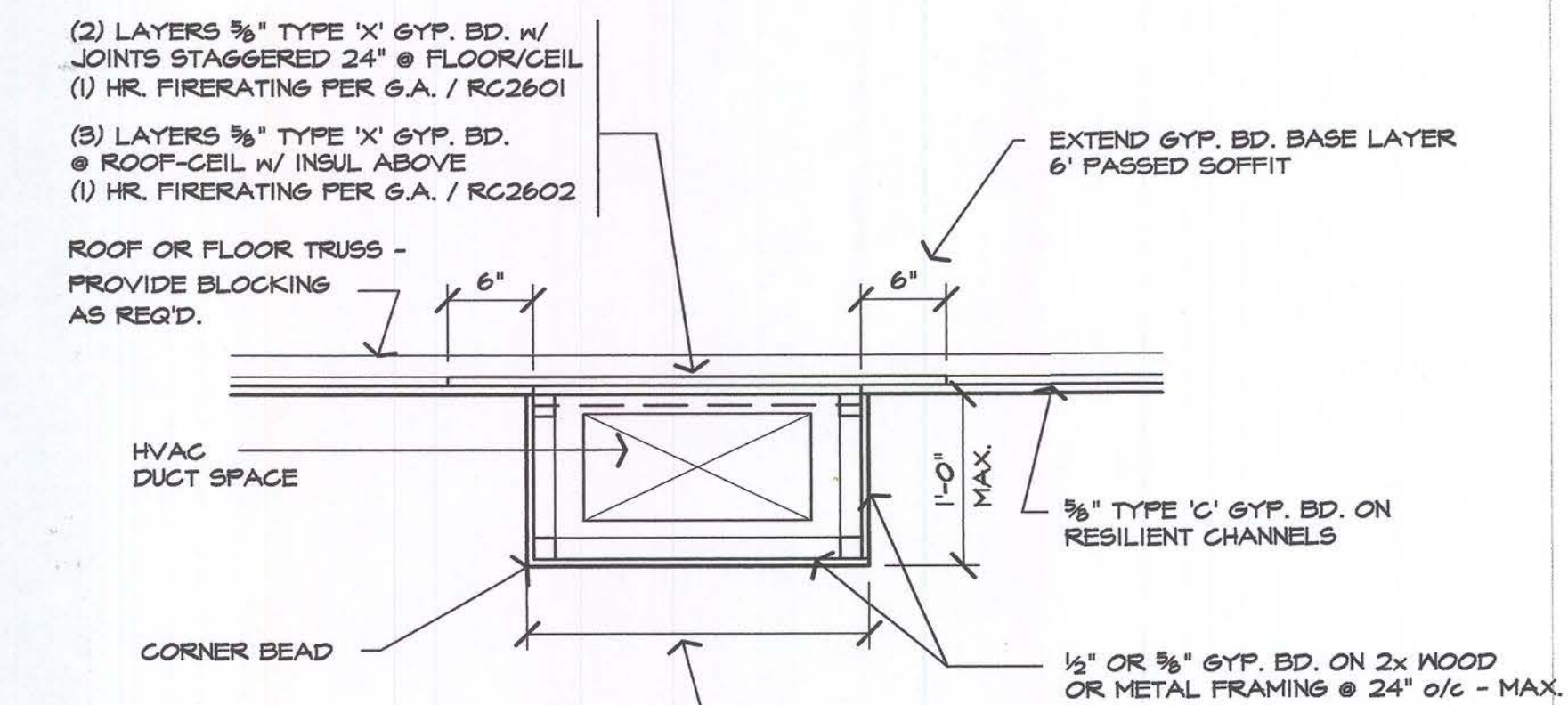
3 CLOTHES DRYER DUCT DETAIL

SCALE: 1" = 1'-0"



4 SOFFIT DETAIL

SCALE: 1" = 1'-0"



5 SOFFIT DETAIL

SCALE: 1" = 1'-0"

GENERAL HANDRAIL/GUARDRAIL NOTES:

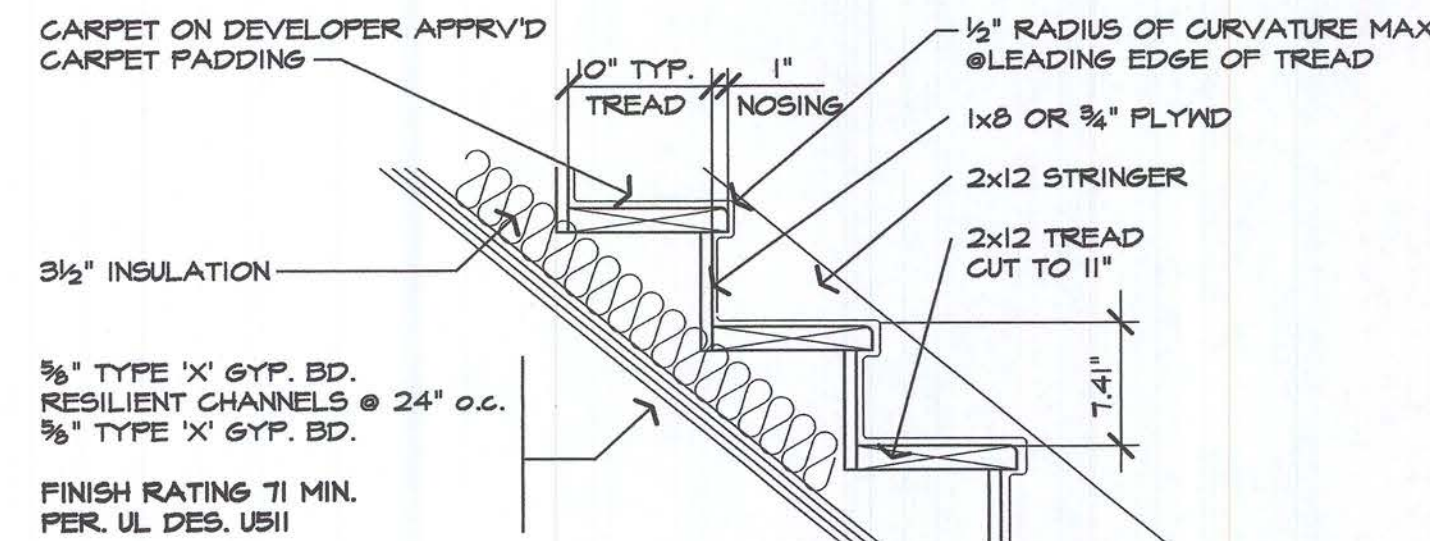
1. Residential Guard Rails:

- Guard railings shall be a minimum 42" high above finish deck or finish floor.
- Open guard rails shall have intermediate rails, balusters, or other construction such that a 4" diameter sphere cannot pass through any opening.
- Guard rails shall be designed and constructed for a concentrated load of 200 pounds applied at any point and in any direction in the system including in a one square foot area on intermediate rails, balusters, or other members.

2. Residential Handrails:

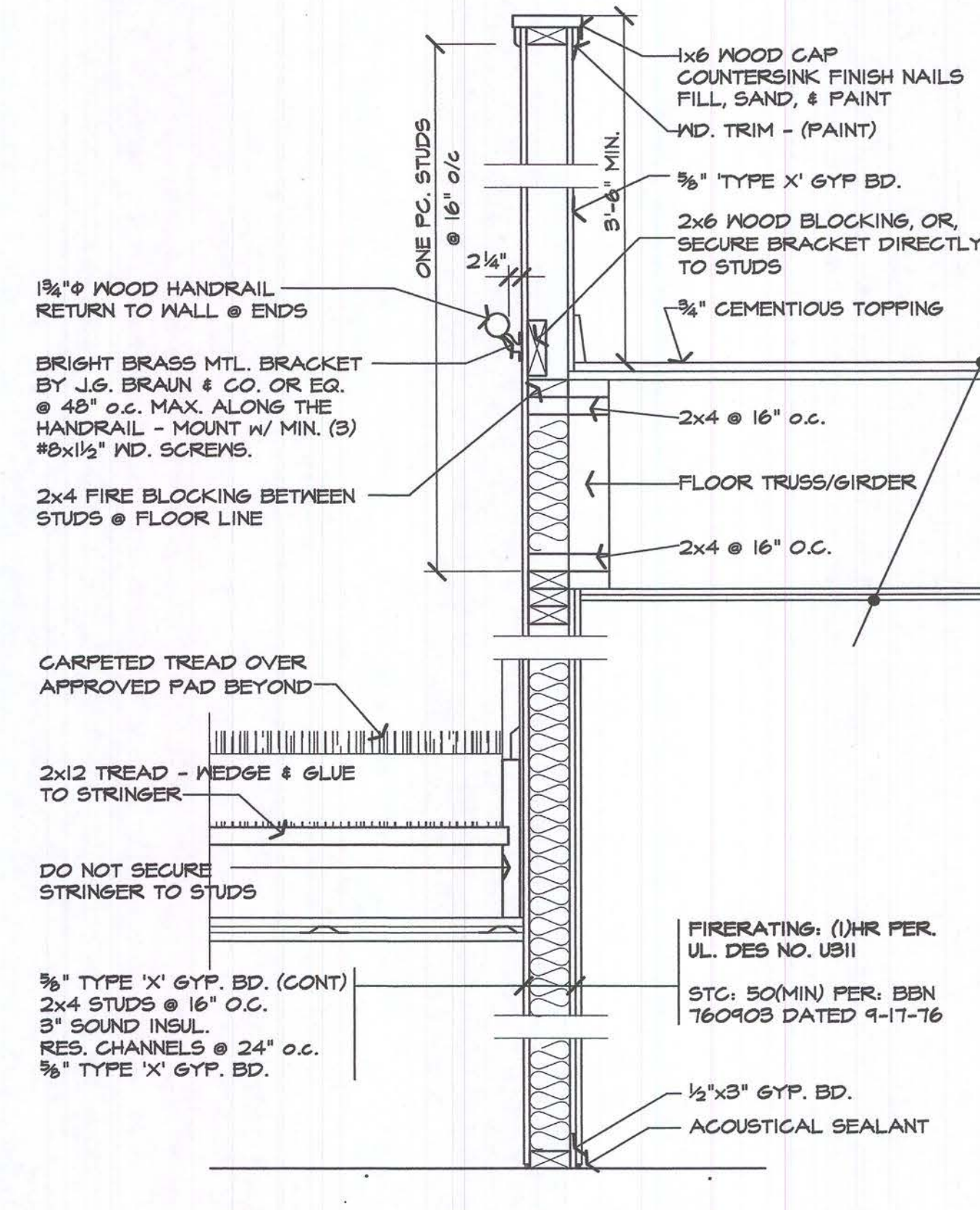
- Handrails shall be installed at 34"-38" measured vertically, above the nosing of treads, or landings.
- Handrails and brackets shall be designed and constructed for a concentrated load of 200 pounds applied at any point in any direction.
- Handrails and brackets shall also be designed and constructed for a uniform load of 50 PLF applied in any direction. The concentrated and uniform loading conditions shall not be applied simultaneously.
- Stairway handrails shall have a circular cross section of at least 1 1/4" outside diameter, but not greater than 2" outside diameter or shall be an approved rail of equivalent grasp ability.

Provide documentation of design for premanufactured guardrails, handrails, and brackets to the local building authority/owner as requested. Documentation shall be sealed by an engineer licensed in the state where the project is constructed.



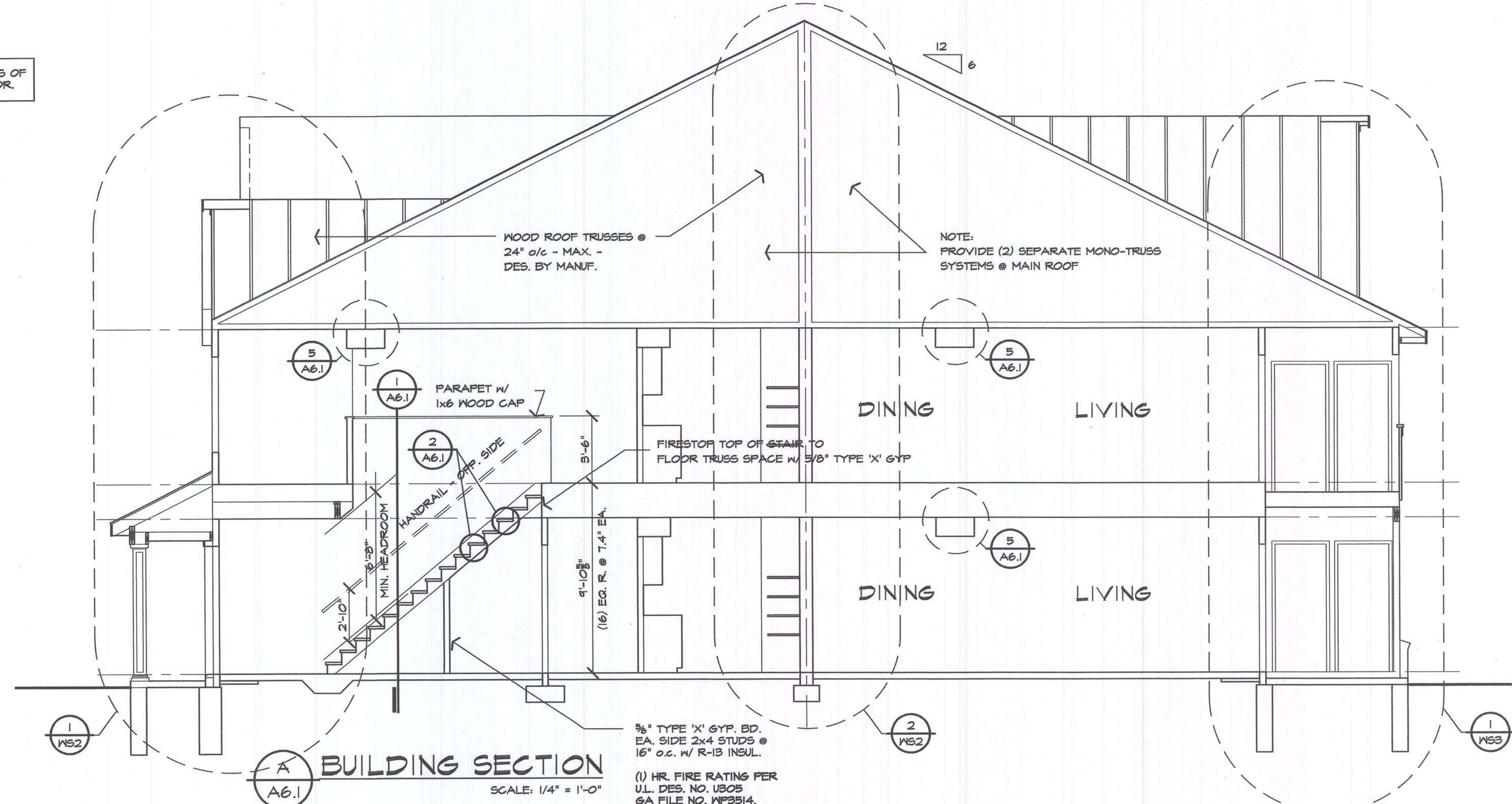
2 STAIR DETAIL

SCALE: 1" = 1'-0"



1 STRINGER/STAIR & WALL DETAIL

SCALE: 1" = 1'-0"



A BUILDING SECTION

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

Developer:
FIELEK LAND DEVELOPMENT, L.L.C.
South Lyon, Mi.

Project:

WORTHINGTON APARTMENTS

LESLIE, MICHIGAN

Sheet Title:

CROSS SECTIONS & DETAILS

Project Number: 03-161

Drawn: SM

Checked: GA

Date: 7-31-03

Sheet Number:

A6.1