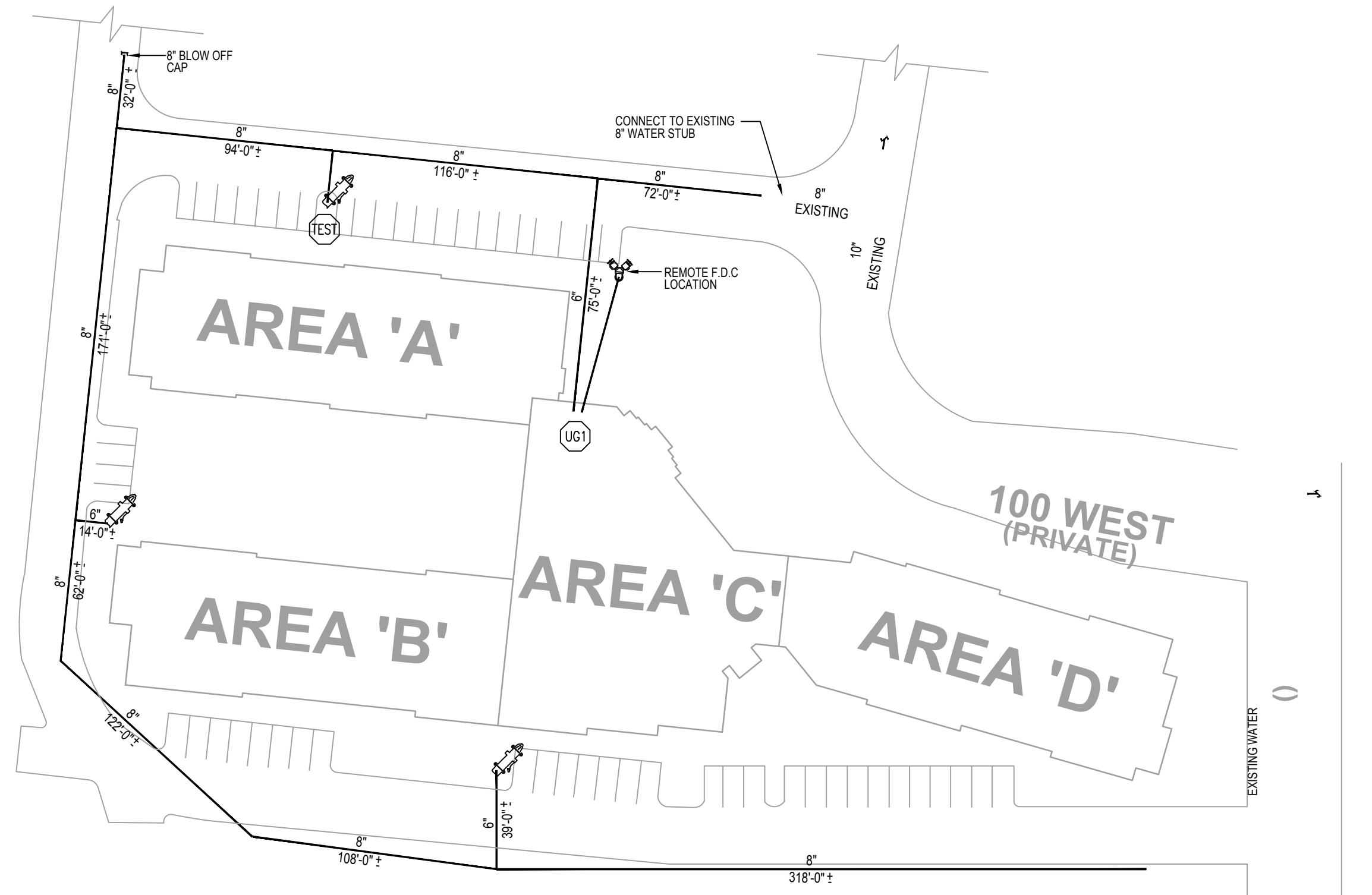
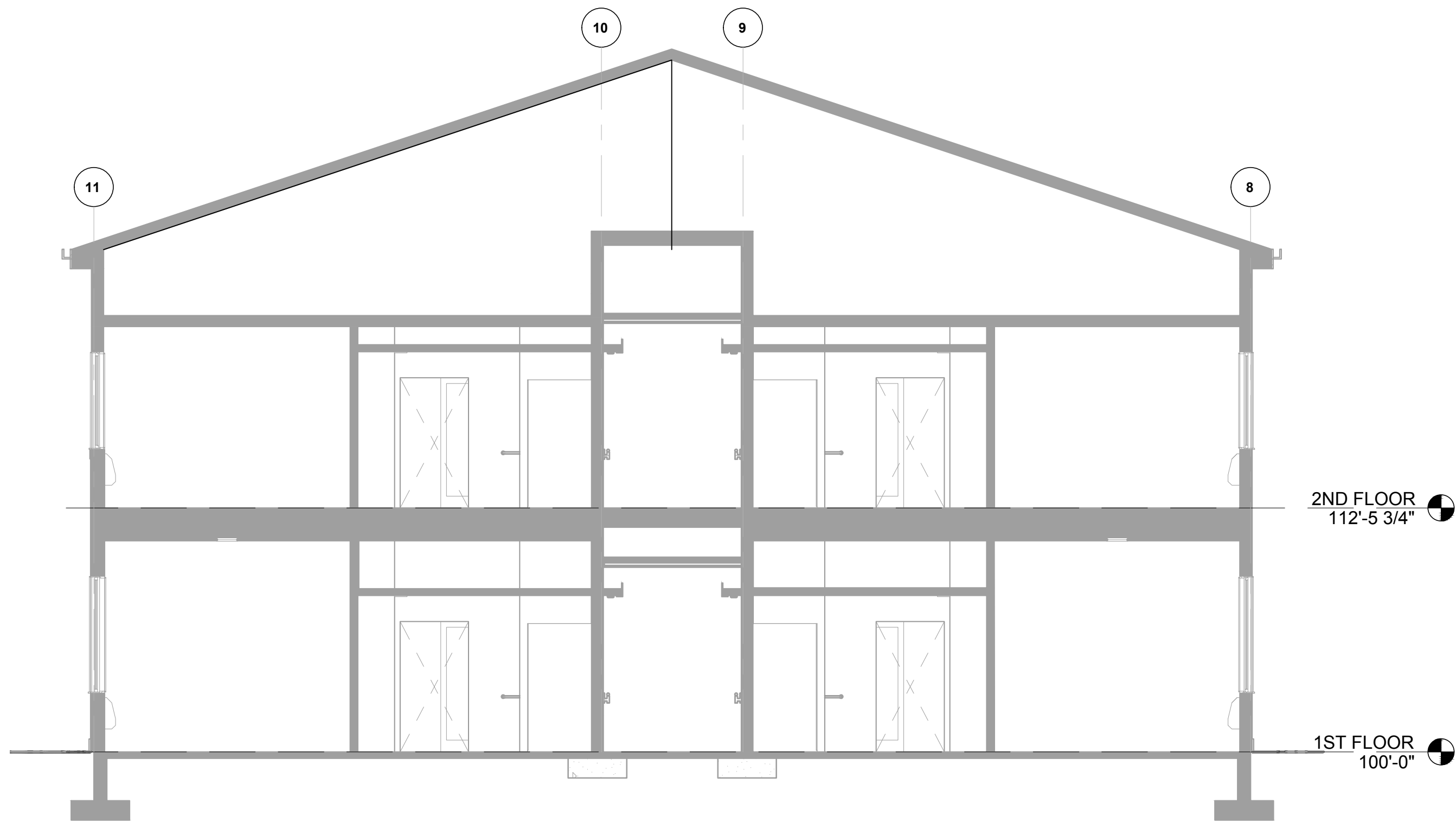




SPRINKLER INSTALLATION NOTES:

- RESIDENTIAL PENDENT SPRINKLER:**
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
 - RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER:**
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
 - PENDENT SPRINKLER:**
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
 - CONCEALED SPACE UPRIGHT SPRINKLER:**
 - 14" x 14" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-0" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
 - UP DOWN SPRINKLER (SSP & SSU):**
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- = QUICK RESPONSE STANDARD SPRAY PENDENT
5.6K FACTOR - 200°F - 1/2" NPT
- = QUICK RESPONSE STANDARD SPRAY UPRIGHT
5.6K FACTOR - 200°F - 1/2" NPT

BASIS OF DESIGN

SCOPE OF WORK
PROVIDE NEW AUTOMATIC FIRE SPRINKLER SYSTEM TO NEW ASSISTED LIVING CENTER PER NFPA 13 - 2016 AND NFPA 13R - 2016.

BUILDING TYPE
BUILDING TYPE IS A I-2 COND. 1 ASSISTED LIVING CENTER.

CONSTRUCTION TYPE
BUILDING CONSISTS OF COMPOSITE WOOD BEAMS, WOOD TRUSSES FOR ROOF AND FLOORS, WOOD STUD FRAMING FOR WALLS. GYP BD WALL COVERINGS.

HAZARD CLASSIFICATION
RESIDENTIAL
BEDROOMS AND PRIVATE RESTROOMS

LIGHT HAZARD
CORRIDORS, PUBLIC SPACES AND CONCEALED COMBUSTIBLE ATTIC SPACE

ORDINARY HAZARD, GROUP 1
PORTE COCHERE

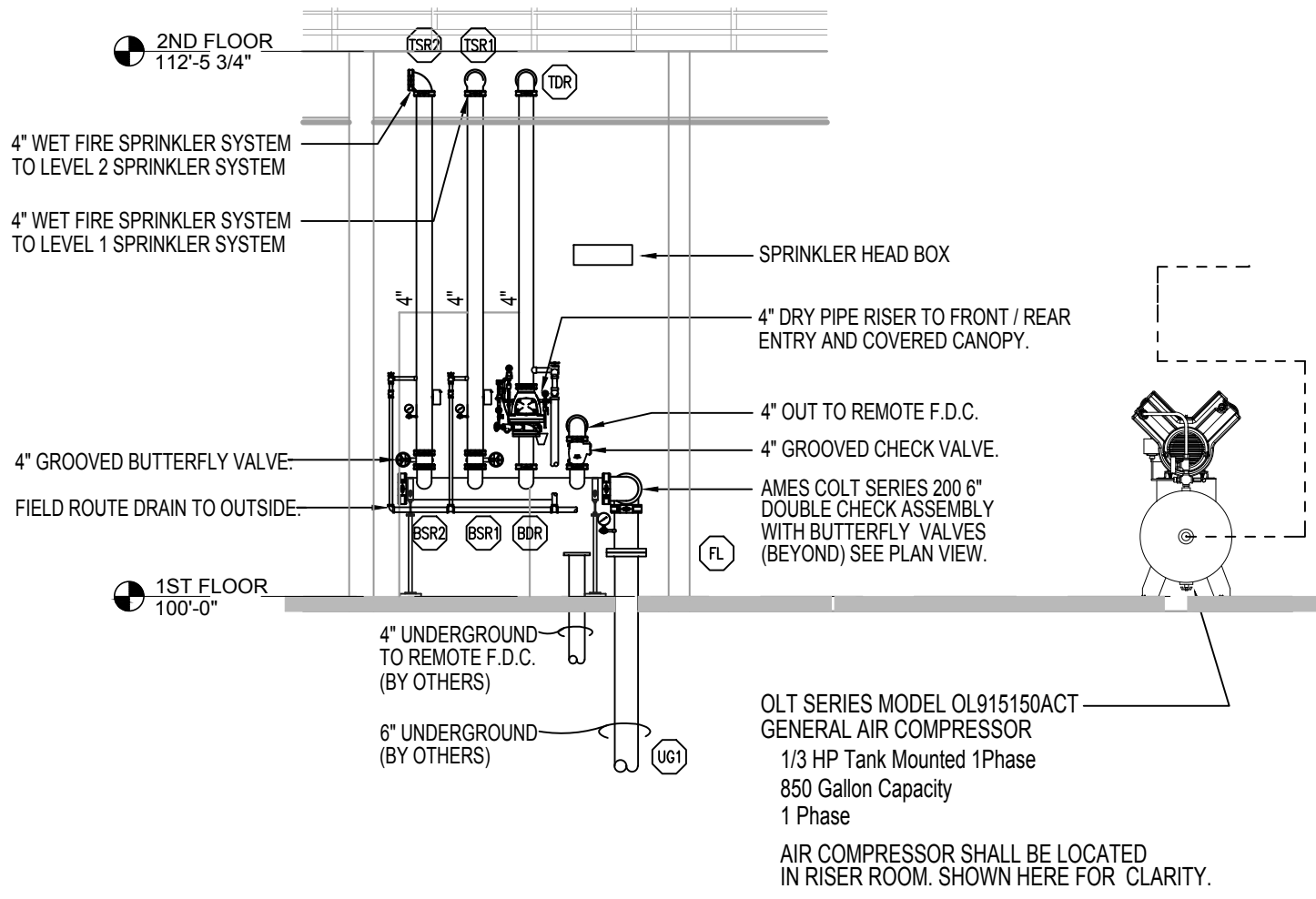
DESIGN AREA / DENSITY
BEDROOMS
NFPA MINIMUM - 4 HEADS @ 0.10 GPM/FT²

CORRIDORS / PUBLIC SPACES
NFPA MINIMUM - 1500 FT² @ 0.10 GPM/FT²
MAXIMUM CEILING > 10 FT. AREA REDUCTION PERMITTED.

PORTE COCHERE
NFPA MINIMUM - 1500 FT² @ 0.15 GPM/FT²

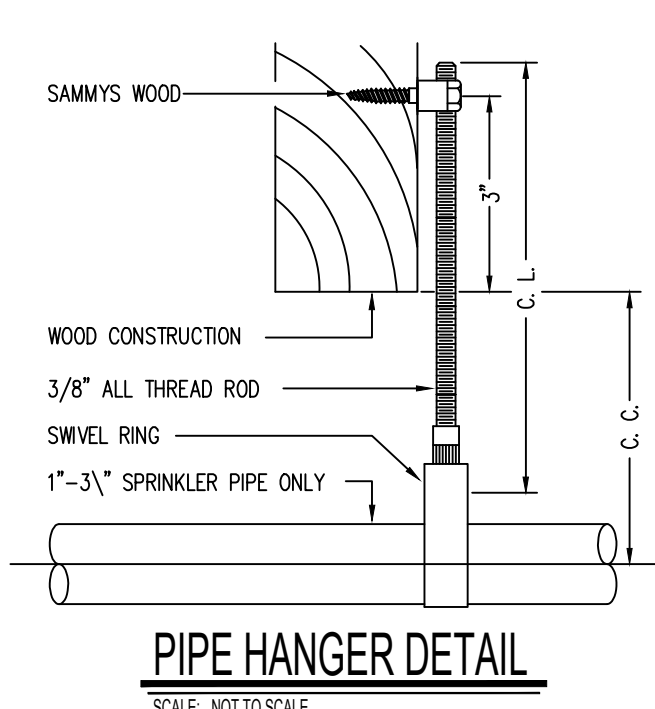
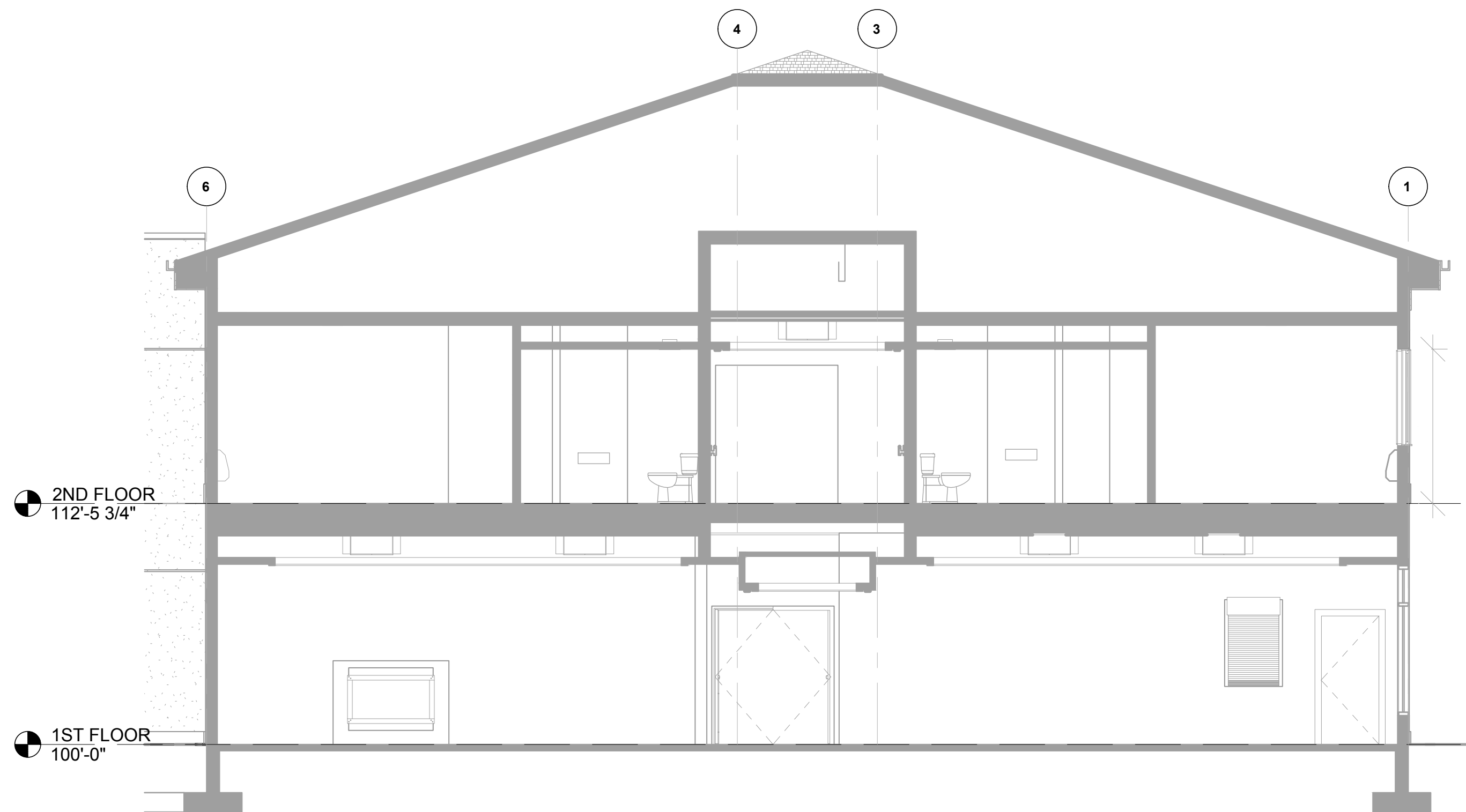
GENERAL NOTES

- AND SECURITY'S CONTRACT IS TO START INSIDE THE BUILDING.
- SCOPE OF WORK INCLUDES ADDING NEW AUTOMATIC WET FIRE SPRINKLER SYSTEM THROUGHOUT ASSISTED LIVING CENTER, AND AUTOMATIC DRY FIRE SPRINKLER SYSTEM THROUGHOUT EXTERIOR CANOPY AND PORTE COCHERE.
- ALL DESIGN, MATERIAL, TESTING, AND INSTALLATION SHALL MEET NFPA 13, 2016 ed. AND NFPA 13R, 2016 ed.
- ALL PIPING 3" AND LARGER SHALL BE EDDYFLOW BLACK STEEL PIPE AND WILL USE CAST IRON THREADED AND GROOVED FITTINGS.
- SPRINKLER HEADS ARE REQUIRED TO BE LOCATED IN THE CENTER OF CEILING TILES.
- ALL CLEANING AND PAINTING OF PIPE IS BY OTHERS.
- ALL ELECTRICAL WORK IS BY OTHERS.



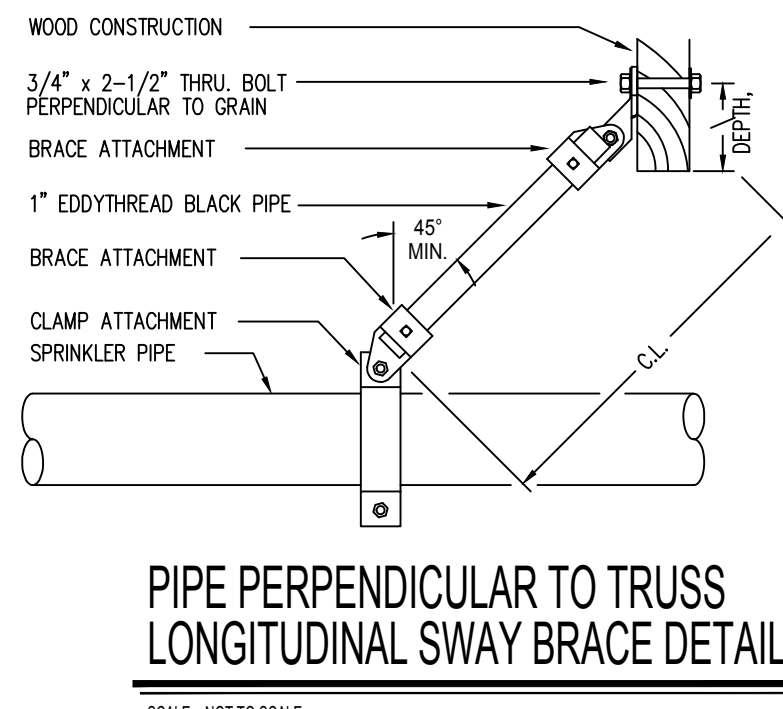
D RISER ROOM DETAIL

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



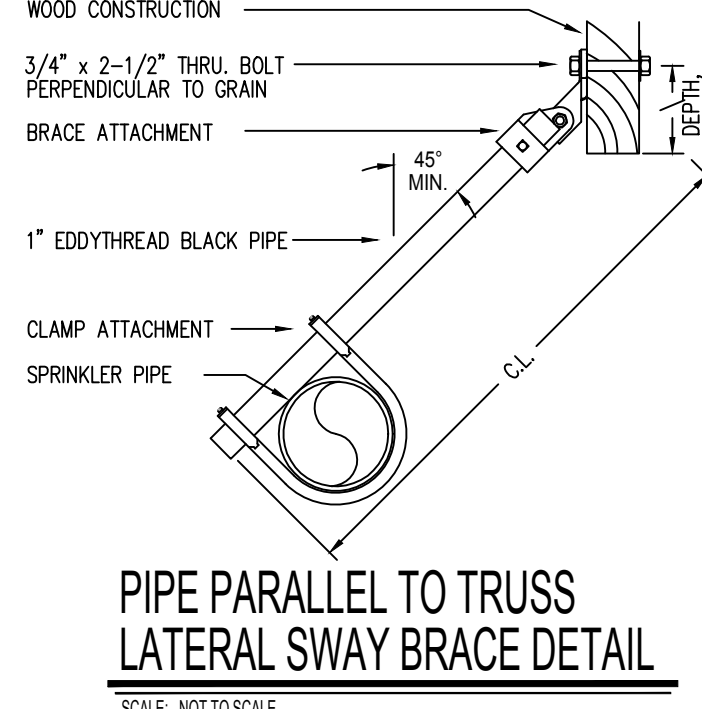
PIPE HANGER DETAIL

SCALE: NOT TO SCALE



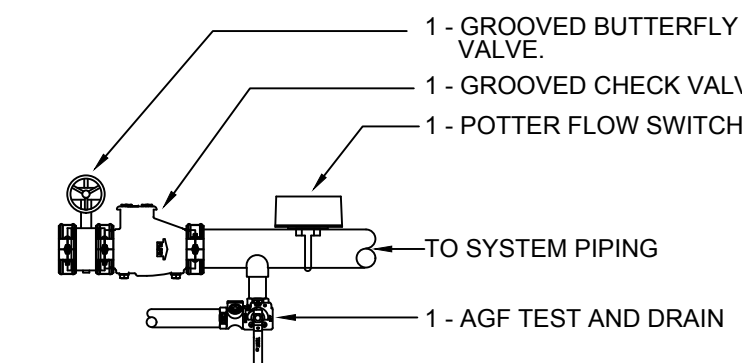
PIPE PERPENDICULAR TO TRUSS LONGITUDINAL SWAY BRACE DETAIL

SCALE: NOT TO SCALE



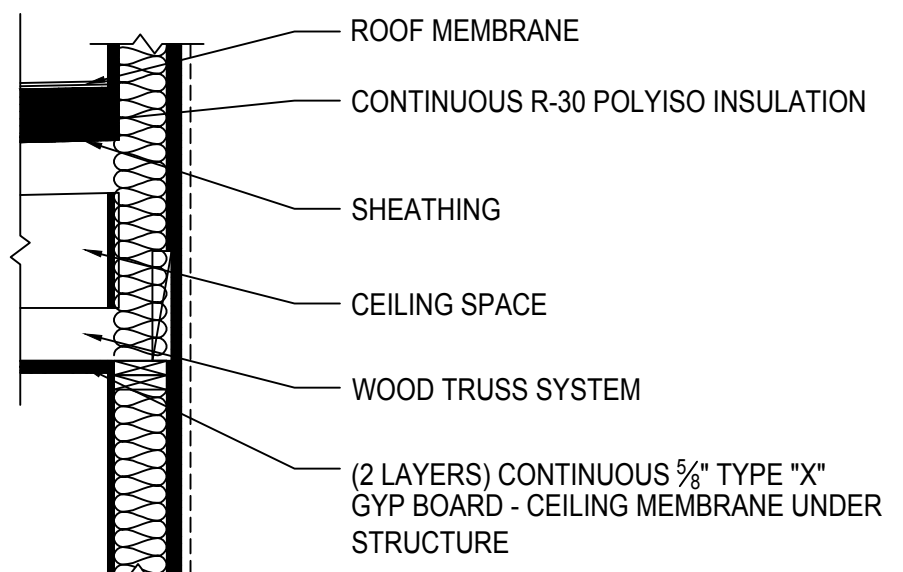
PIPE PARALLEL TO TRUSS LATERAL SWAY BRACE DETAIL

SCALE: NOT TO SCALE



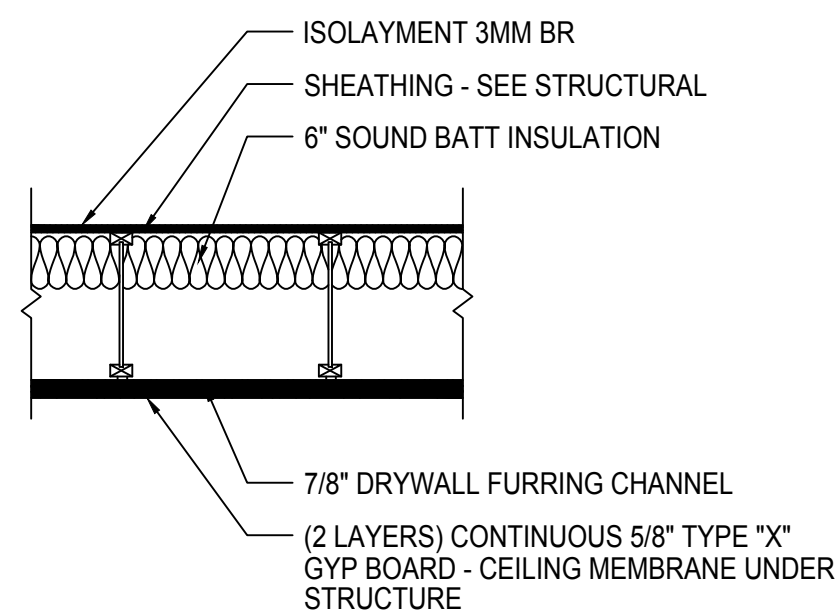
FLOOR CONTROL DETAIL

SCALE: N.T.S.



WALL DETAIL

SCALE: NOT TO SCALE

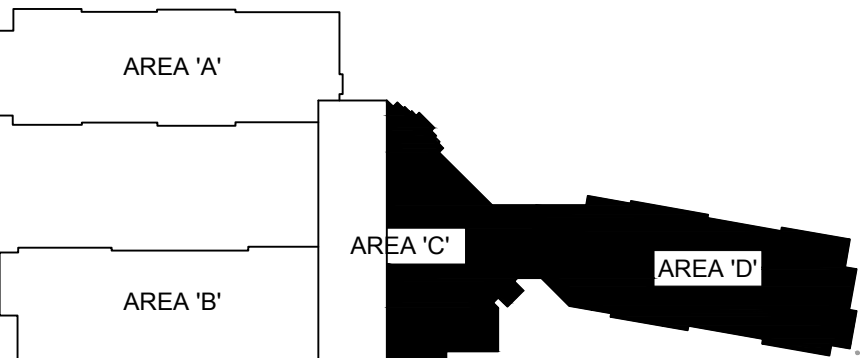


WALL DETAIL

SCALE: NOT TO SCALE

SYMBOL LEGEND

SYMBOL	DESCRIPTION
●	RESIDENTIAL PENDENT SPRINKLER HEAD
⊗	PENDENT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
◁	RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER HEAD
●	UPDOWN FIRE SPRINKLER HEADS
—	NEW PIPING
↘	ELBOW DOWN
↗	ELBOW UP
—	TEE DOWN
—	TEE UP
—	PLUG IN UP, DOWN, OR SIDE OUTLET
—	PIPE CAP
—	GROOVED COUPLING (RIGID UNLESS OTHERWISE INDICATED)
—	PIPE HANGER
⊙	HYDRAULIC CALCULATION NODE
⊙	CEILING ELEVATION (A.F.F.)
—	LONGITUDINAL SEISMIC SWAY BRACE
—	LATERAL SEISMIC SWAY BRACE
1/4"	PIPE NOMINAL SIZE (IN)
3'-4"	LENGTH (FT-IN)



KEY PLAN

- 18' x 18' - MAXIMUM DISTANCE BETWEEN SPRINKLERS
- 9'-0" - MAXIMUM DISTANCE OFF WALL
- 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS

- ▷ RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER:
- 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS

- ⊗ PENDENT SPRINKLER:
- 15' x 15' - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS

- CONCEALED SPACE UPRIGHT SPRINKLER:
- 14' x 14' - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-0" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS

- ① UP DOWN SPRINKLER (SSP & SSU):
- 15' x 15' - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS

- ① = QUICK RESPONSE STANDARD SPRAY PENDENT
5.6K FACTOR - 200°F - 1/2" NPT
- ② = QUICK RESPONSE STANDARD SPRAY UPRIGHT
5.6K FACTOR - 200°F - 1/2" NPT

SYMBOL	DESCRIPTION
	RESIDENTIAL PENDENT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	RESIDENTIAL HORIZONTAL SIDEWALL HEAD
	UP/DOWN FIRE SPRINKLER HEAD
	NEW PIPING
	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
	PLUG IN UP, DOWN, OR SIDE OUTLET
	PIPE CAP
	GROOVED COUPLING (RIGID UNLESS OTHERWISE INDICATED)
	PIPE HANGER
	HYDRAULIC CALCULATION NODE
	CEILING ELEVATION (A.F.F.)
	LONGITUDINAL SEISMIC SWAY BRACE
	LATERAL SEISMIC SWAY BRACE
	PIPE NOMINAL SIZE (IN) LENGTH (FT-IN)

SCOPE OF WORK
PROVIDE NEW AUTOMATIC FIRE SPRINKLER
 SYSTEM TO ALL ASSISTED LIVING CENTER PER
 NPA 13- 2016 AND NFPA 13R- 2016.

BUILDING TYPE
 BUILDING TYPE IS A+2 COND. 1 ASSISTED LIVING
 CENTER.

CONSTRUCTION TYPE
 BUILDING CONSISTS OF COMPOSITE WOOD
 BEAMS, TRUSS ROOFING FOR ROOF AND FLOORS
 WOOD STUD SUPPORTING FOR WALLS. GYP DR WALL
 COVERING.

HAZARD CLASSIFICATION
 RESIDENTIAL
 BEDROOMS AND PRIVATE RESTROOMS

LIGHT HAZARD
 CORRIDORS, PUBLIC SPACES AND
 CONCEALED COMBUSTIBLE ATTIC SPACE

ORDINARY HAZARD, GROUP I
 PORTE COCHERE

DESIGN AREA / DENSITY
 BEDROOMS
 NPA MINIMUM - 4 HEADS @ 0.10 GPM/FT²

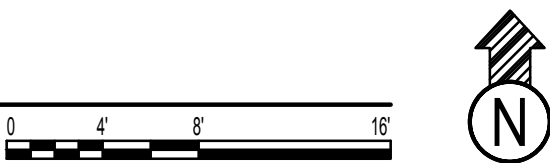
CORRIDORS/ PUBLIC SPACES
 NPA MINIMUM - 1500 FT² @ 0.15 GPM/FT²
 MAXIMUM CEILING > 10 FT. AREA
 REDUCTION PERMITTED.

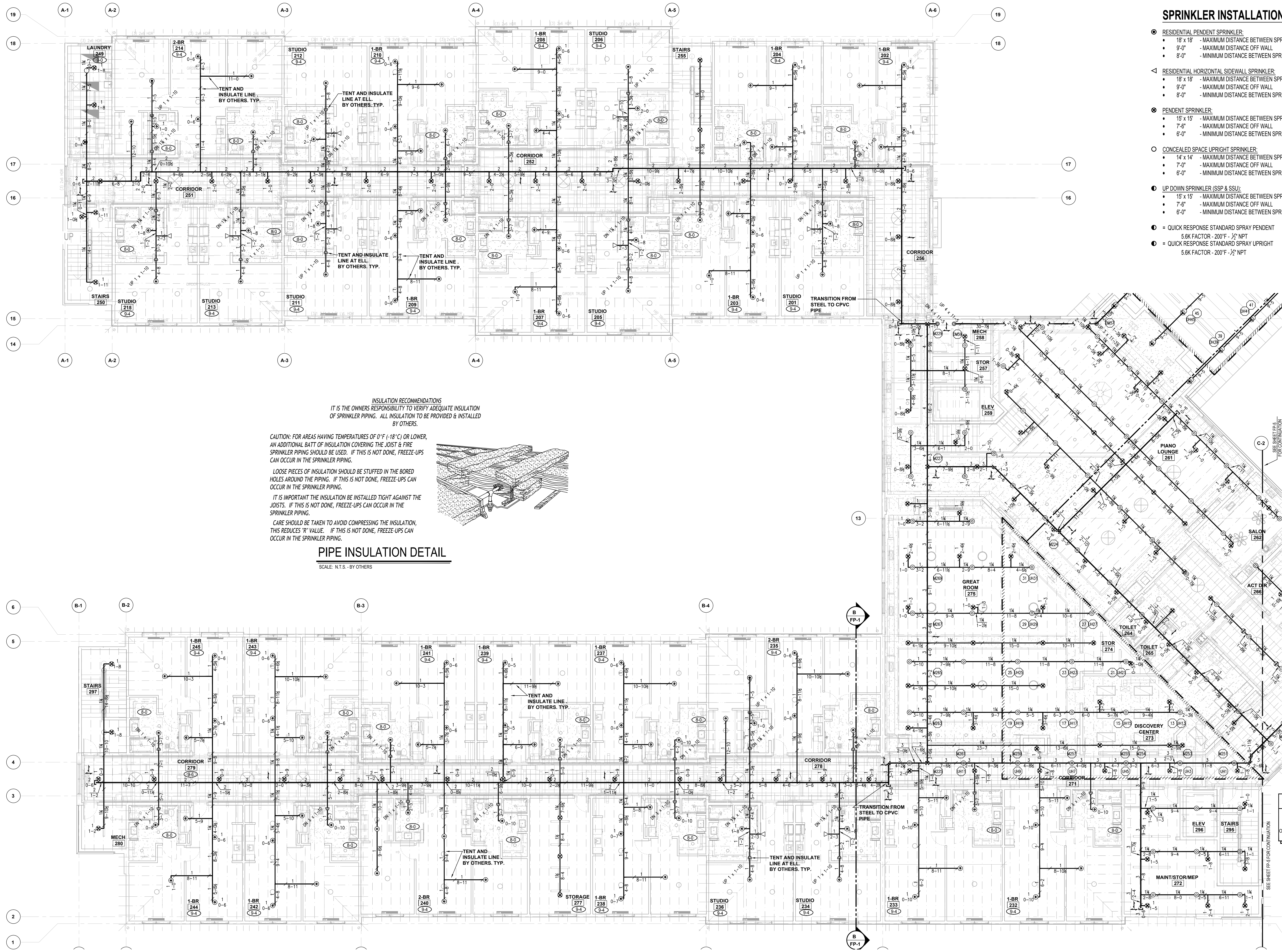
PORTE COCHERE:
 NPA MINIMUM - 1500 FT² @ 0.15 GPM/FT²

1. **IS TO START INSIDE THE BUILDING.**
2. **SCOPE OF WORK INCLUDES ADDING NEW AUTOMATIC WET FIRE SPRINKLER SYSTEM THROUGHOUT ASSISTED LIVING CENTER, AND AUTOMATIC DRY FIRE SPRINKLER SYSTEM THROUGHOUT EXTERIOR CANOPY AND PORTE COCHERE.**
3. **ALL DESIGN, MATERIAL, TESTING, AND INSTALLATION SHALL MEET NFPA 13, 2016 ed. AND NFPA 13R, 2016 ed.**
4. **ALL PIPING 7" AND LARGER SHALL BE EDYFLOW BLACK STEEL PIPE AND WILL USE CAST IRON THREADED AND GROOVED FITTINGS.**
5. **SPRINKLER HEADS ARE REQUIRED TO BE LOCATED IN THE CENTER OF CEILING TILES.**
6. **ALL CLEANING AND PAINTING OF PIPE IS BY OTHERS.**
7. **ALL ELECTRICAL WORK IS BY OTHERS.**

FIRE PROTECTION PLAN - LEVEL 1 - AREA - 'C' & 'D'

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





SPRINKLER INSTALLATION NOTES:

- RESIDENTIAL PENDENT SPRINKLER:
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER:
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- PENDENT SPRINKLER:
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- CONCEALED SPACE UPRIGHT SPRINKLER:
 - 14" x 14" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-0" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- UP/DOWN SPRINKLER (SSP & SSU):
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- QUICK RESPONSE STANDARD SPRAY PENDENT:
 - 5.6K FACTOR - 200°F - 1/2" NPT
- QUICK RESPONSE STANDARD SPRAY UPRIGHT:
 - 5.6K FACTOR - 200°F - 1/2" NPT

BASIS OF DESIGN

SCOPE OF WORK
PROVIDE NEW AUTOMATIC FIRE SPRINKLER SYSTEM TO NEW ASSISTED LIVING CENTER PER NFPA 13 - 2016 AND NFPA 13R - 2016.

BUILDING TYPE
BUILDING TYPE IS A-2 COND. 1 ASSISTED LIVING CENTER.

CONSTRUCTION TYPE
BUILDING CONSISTS OF COMPOSITE WOOD BEAMS, WOOD TRUSSES FOR ROOF AND FLOORS, WOOD STUD FRAMING FOR WALLS, GYP BD WALL COVERING.

HAZARD CLASSIFICATION
RESIDENTIAL
BEDROOMS AND PRIVATE RESTROOMS

LIGHT HAZARD
CORRIDORS, PUBLIC SPACES AND CONCEALED COMBUSTIBLE ATTIC SPACE

ORDINARY HAZARD, GROUP I
PORTE COCHERE

DESIGN AREA / DENSITY
BEDROOMS
NFPA MINIMUM - 4 HEADS @ 0.10 GPM/FT²

CORRIDORS / PUBLIC SPACES
NFPA MINIMUM - 1500 FT² @ 0.10 GPM/FT²
MAXIMUM CEILING > 10 FT. AREA REDUCTION PERMITTED.

PORTE COCHERE
NFPA MINIMUM - 1500 FT² @ 0.15 GPM/FT²

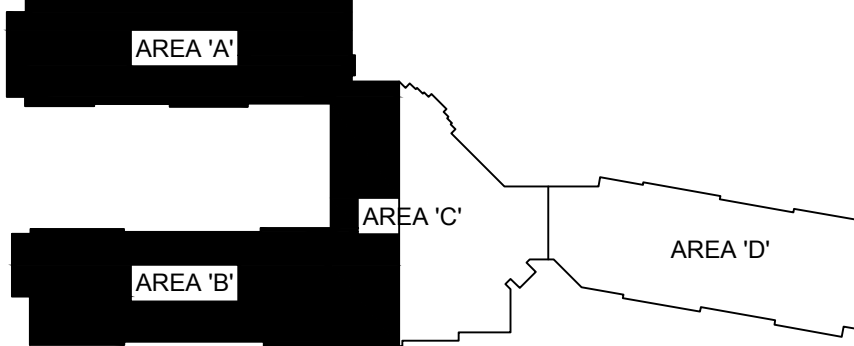
GENERAL NOTES

- IS TO START INSIDE THE BUILDING.
- SCOPE OF WORK INCLUDES ADDING NEW AUTOMATIC WET FIRE SPRINKLER SYSTEM THROUGHOUT ASSISTED LIVING CENTER, AND AUTOMATIC DRY FIRE SPRINKLER SYSTEM THROUGHOUT EXTERIOR CANOPY AND PORTE COCHERE.
- ALL DESIGN, MATERIAL, TESTING, AND INSTALLATION SHALL MEET NFPA 13, 2016 ed. AND NFPA 13R, 2016 ed.
- ALL PIPING 3" AND LARGER SHALL BE EDDYFLOW BLACK STEEL PIPE AND WILL USE CAST IRON THREADED AND GROOVED FITTINGS.
- SPRINKLER HEADS ARE REQUIRED TO BE LOCATED IN THE CENTER OF CEILING TILES.
- ALL CLEANING AND PAINTING OF PIPE IS BY OTHERS.
- ALL ELECTRICAL WORK IS BY OTHERS.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
●	RESIDENTIAL PENDENT SPRINKLER HEAD
⊗	PENDENT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
◁	RESIDENTIAL HORIZONTAL SIDEWALL HEAD
●	UP/DOWN FIRE SPRINKLER HEADS
—	NEW PIPING
→	ELBOW DOWN
↗	ELBOW UP
—	TEE DOWN
—	TEE UP
—	PLUG IN UP, DOWN, OR SIDE OUTLET
—	PIPE CAP
—	GROOVED COUPLING (RIGID UNLESS OTHERWISE INDICATED)
—	PIPE HANGER
○	HYDRAULIC CALCULATION NODE
10-10	CEILING ELEVATION (A.F.F.)
—	LONGITUDINAL SEISMIC SWAY BRACE
—	LATERAL SEISMIC SWAY BRACE
1 1/4"	PIPE NOMINAL SIZE (IN)
3-4	LENGTH (FT-IN)

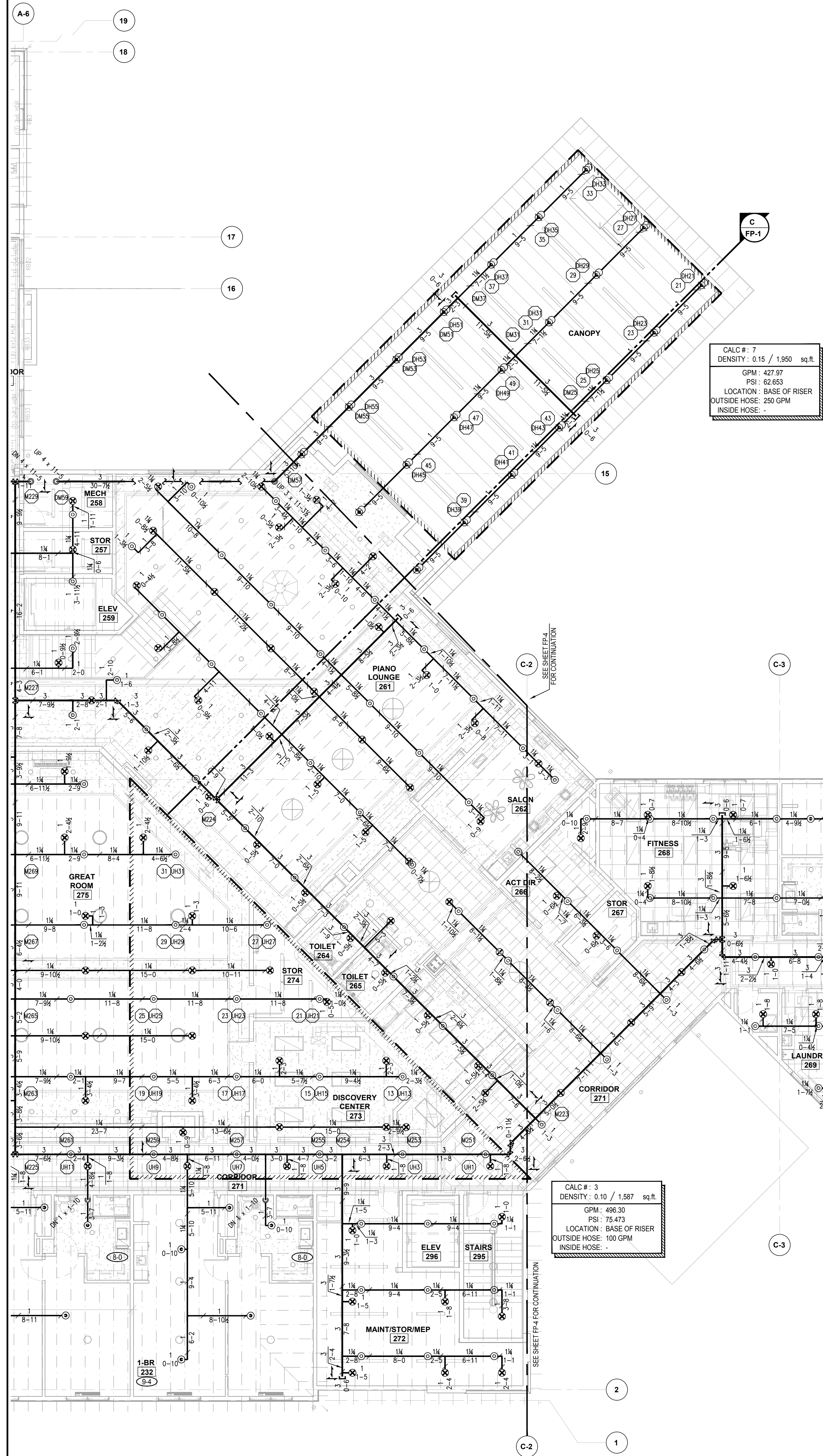
CALC # : 3
DENSITY : 0.10 / 1.587 sq.ft.
GPM : 496.30
PSI : 75.473
LOCATION : BASE OF RISER
OUTSIDE HOSE : 100 GPM
INSIDE HOSE : —



KEY PLAN

FIRE PROTECTION PLAN - LEVEL 2 - AREA 'A' - 'B' & PARTIAL 'C'

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



SPRINKLER INSTALLATION NOTES:

- RESIDENTIAL PENDENT SPRINKLER:
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER:
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- PENDENT SPRINKLER:
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- CONCEALED SPACE UPRIGHT SPRINKLER:
 - 14" x 14" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-0" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- UP DOWN SPRINKLER (SSP & SSU):
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- = QUICK RESPONSE STANDARD SPRAY PENDENT
5.6K FACTOR - 200°F - 1/2" NPT
- = QUICK RESPONSE STANDARD SPRAY UPRIGHT
5.6K FACTOR - 200°F - 1/2" NPT

SYMBOL LEGEND

SYMBOL	DESCRIPTION
⊙	RESIDENTIAL PENDENT SPRINKLER HEAD
⊗	PENDENT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
◁	RESIDENTIAL HORIZONTAL SIDEWALL HEAD
⬇	UP/DOWN FIRE SPRINKLER HEADS
—	NEW PIPING
↘	ELBOW DOWN
↗	ELBOW UP
—	TEE DOWN
—	TEE UP
⊥	PLUG IN UP, DOWN, OR SIDE OUTLET
—	PIPE CAP
—	GROOVED COUPLING (RIGID UNLESS OTHERWISE INDICATED)
—	PIPE HANGER
⬢	HYDRAULIC CALCULATION NODE
⬢	CEILING ELEVATION (A.F.F.)
—	LONGITUDINAL SEISMIC SWAY BRACE
—	LATERAL SEISMIC SWAY BRACE
1/4"	PIPE NOMINAL SIZE (IN)
3'-4"	LENGTH (FT-IN)

BASIS OF DESIGN

SCOPE OF WORK
PROVIDE NEW AUTOMATIC FIRE SPRINKLER SYSTEM TO NEW ASSISTED LIVING CENTER PER NFPA 13 - 2016 AND NFPA 13R - 2016.

BUILDING TYPE
BUILDING TYPE IS A I-2 COND. 1 ASSISTED LIVING CENTER.

CONSTRUCTION TYPE
BUILDING CONSISTS OF COMPOSITE WOOD BEAMS, WOOD TRUSSES FOR ROOF AND FLOORS, WOOD STUD FRAMING FOR WALLS. GYP BD WALL COVERING.

HAZARD CLASSIFICATION
RESIDENTIAL
BEDROOMS AND PRIVATE RESTROOMS

LIGHT HAZARD
CORRIDORS, PUBLIC SPACES AND CONCEALED COMBUSTIBLE ATTIC SPACE

ORDINARY HAZARD, GROUP I
PORTE COCHERE

DESIGN AREA / DENSITY
BEDROOMS
NFPA MINIMUM - 4 HEADS @ 0.10 GPM/FT²

CORRIDORS / PUBLIC SPACES
NFPA MINIMUM - 1500 FT² @ 0.10 GPM/FT²
MAXIMUM CEILING > 10 FT. AREA REDUCTION PERMITTED.

PORTE COCHERE
NFPA MINIMUM - 1500 FT² @ 0.15 GPM/FT²

GENERAL NOTES

- IS TO START INSIDE THE BUILDING. ONTRACT
- SCOPE OF WORK INCLUDES ADDING NEW AUTOMATIC WET FIRE SPRINKLER SYSTEM THROUGHOUT ASSISTED LIVING CENTER AND AUTOMATIC DRY FIRE SPRINKLER SYSTEM THROUGHOUT EXTERIOR CANOPY AND PORTE COCHERE.
- ALL DESIGN, MATERIAL, TESTING, AND INSTALLATION SHALL MEET NFPA 13, 2016 ed. AND NFPA 13R, 2016 ed.
- ALL PIPING 3" AND LARGER SHALL BE EDDYFLOW BLACK STEEL PIPE AND WILL USE CAST IRON THREADED AND GROOVED FITTINGS.
- SPRINKLER HEADS ARE REQUIRED TO BE LOCATED IN THE CENTER OF CEILING TILES.
- ALL CLEANING AND PAINTING OF PIPE IS BY OTHERS.
- ALL ELECTRICAL WORK IS BY OTHERS.

INSULATION RECOMMENDATIONS
IT IS THE OWNERS RESPONSIBILITY TO VERIFY ADEQUATE INSULATION OF SPRINKLER PIPING. ALL INSULATION TO BE PROVIDED & INSTALLED BY OTHERS.

CAUTION: FOR AREAS HAVING TEMPERATURES OF 0°F (-18°C) OR LOWER, AN ADDITIONAL BATT OF INSULATION COVERING THE JOIST & FIRE SPRINKLER PIPING SHOULD BE USED. IF THIS IS NOT DONE, FREEZE-UPS CAN OCCUR IN THE SPRINKLER PIPING.

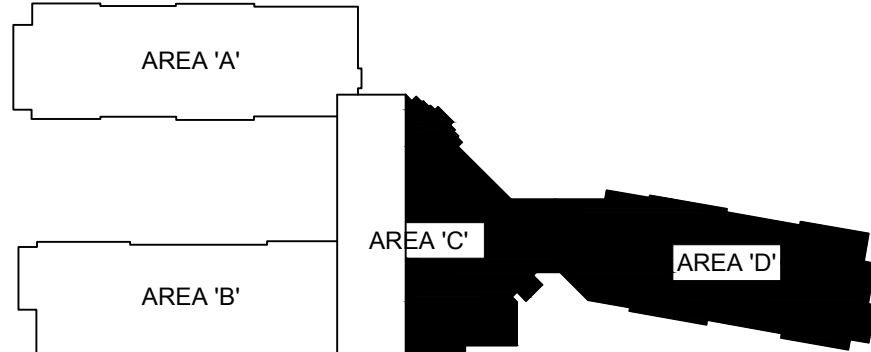
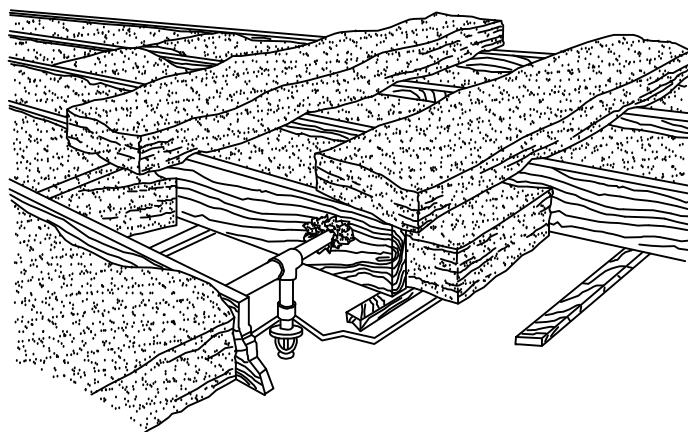
LOOSE PIECES OF INSULATION SHOULD BE STUFFED IN THE BORED HOLES AROUND THE PIPING. IF THIS IS NOT DONE, FREEZE-UPS CAN OCCUR IN THE SPRINKLER PIPING.

IT IS IMPORTANT THE INSULATION BE INSTALLED TIGHT AGAINST THE JOISTS. IF THIS IS NOT DONE, FREEZE-UPS CAN OCCUR IN THE SPRINKLER PIPING.

CARE SHOULD BE TAKEN TO AVOID COMPRESSING THE INSULATION, THIS REDUCES "R" VALUE. IF THIS IS NOT DONE, FREEZE-UPS CAN OCCUR IN THE SPRINKLER PIPING.

PIPE INSULATION DETAIL

SCALE: N.T.S. - BY OTHERS



KEY PLAN

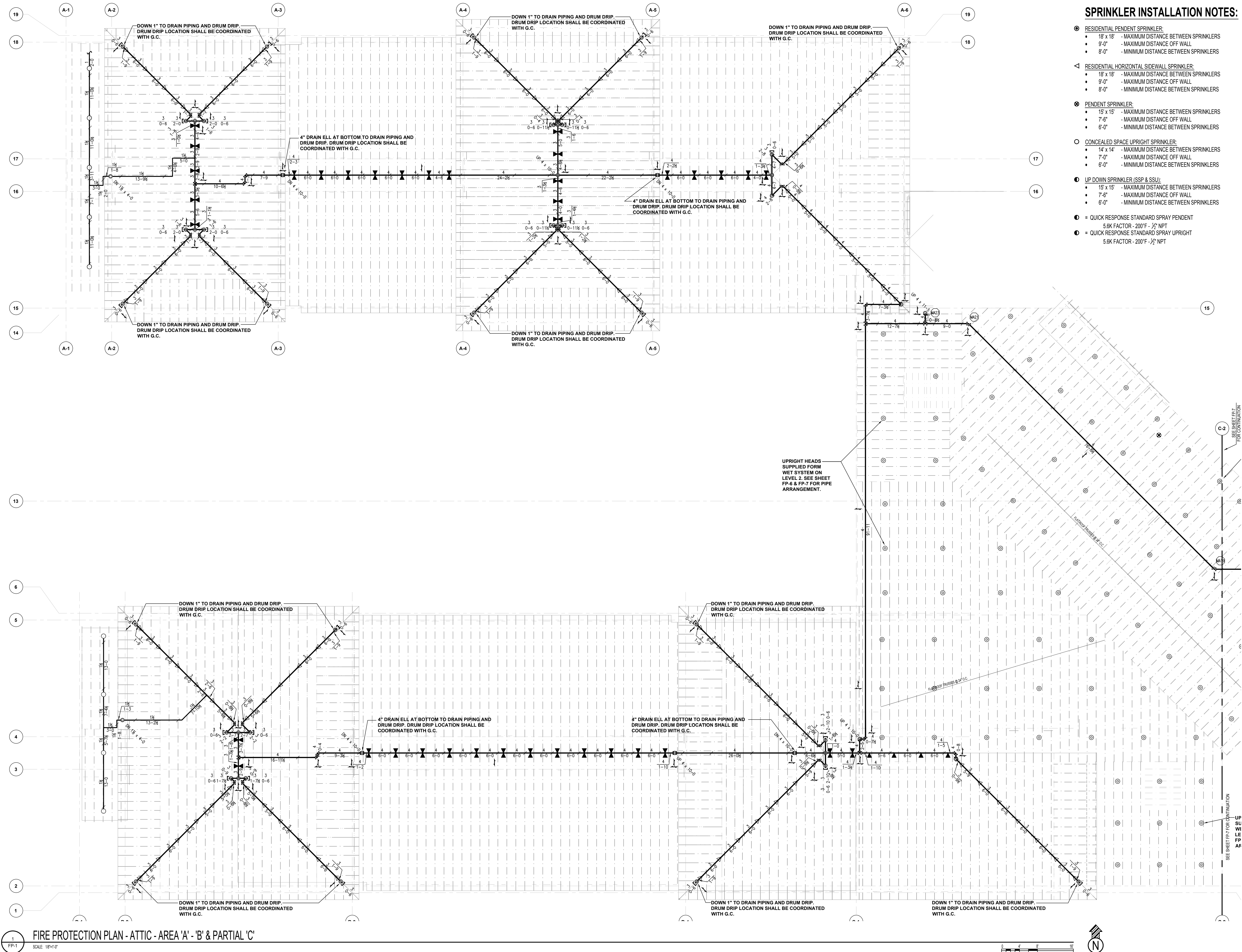
CALC # 3
DENSITY: 0.10 / 1,587 sq.ft
GPM: 496.30
PSI: 75.473
LOCATION: BASE OF RISER
OUTSIDE HOSE: 100 GPM
INSIDE HOSE: -

CALC # 1
DENSITY: 0.10 / 4HEAD sq.ft
GPM: 147.86
PSI: 82.017
LOCATION: BASE OF RISER
OUTSIDE HOSE: 100 GPM
INSIDE HOSE: -

CALC # 2
DENSITY: 0.10 / HALL sq.ft
GPM: 113.71
PSI: 45.893
LOCATION: BASE OF RISER
OUTSIDE HOSE: 100 GPM
INSIDE HOSE: -

FIRE PROTECTION PLAN - LEVEL 2 - AREA - 'C' & 'D'

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



SPRINKLER INSTALLATION NOTES:

- **RESIDENTIAL PENDENT SPRINKLER:**
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- ◁ **RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER:**
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- ⊙ **PENDENT SPRINKLER:**
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- **CONCEALED SPACE UPRIGHT SPRINKLER:**
 - 14" x 14" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-0" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- **UP DOWN SPRINKLER (SSP & SSU):**
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- = QUICK RESPONSE STANDARD SPRAY PENDENT
5.6K FACTOR - 200°F - 1/2" NPT
- = QUICK RESPONSE STANDARD SPRAY UPRIGHT
5.6K FACTOR - 200°F - 1/2" NPT

BASIS OF DESIGN

SCOPE OF WORK
PROVIDE NEW AUTOMATIC FIRE SPRINKLER SYSTEM TO NEW ASSISTED LIVING CENTER PER NFPA 13 - 2016 AND NFPA 13R - 2016.

BUILDING TYPE
BUILDING TYPE IS A-1-2 COND. 1 ASSISTED LIVING CENTER.

CONSTRUCTION TYPE
BUILDING CONSISTS OF COMPOSITE WOOD BEAMS, WOOD TRUSSES FOR ROOF AND FLOORS, WOOD STUD FRAMING FOR WALLS, GYP BD WALL COVERING.

HAZARD CLASSIFICATION
RESIDENTIAL
BEDROOMS AND PRIVATE RESTROOMS

LIGHT HAZARD
CORRIDORS, PUBLIC SPACES AND CONCEALED COMBUSTIBLE ATTIC SPACE

ORDINARY HAZARD, GROUP I
PORTE COCHERE

DESIGN AREA / DENSITY
BEDROOMS
NFPA MINIMUM - 4 HEADS @ 0.10 GPM/FT²

CORRIDORS / PUBLIC SPACES
NFPA MINIMUM - 1500 FT² @ 0.10 GPM/FT²
MAXIMUM CEILING > 10 FT. AREA REDUCTION PERMITTED.

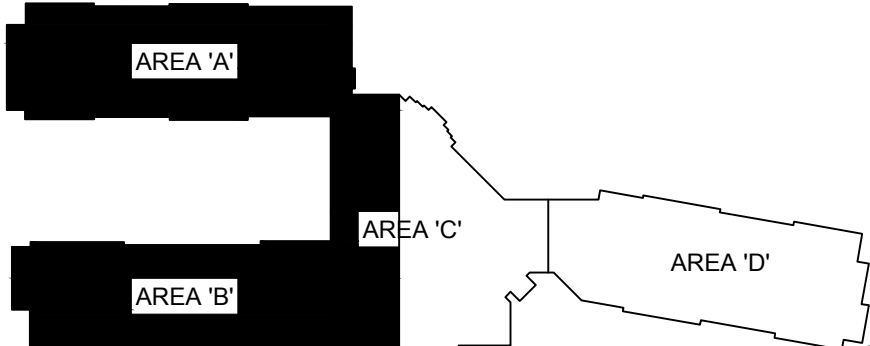
PORTE COCHERE
NFPA MINIMUM - 1500 FT² @ 0.15 GPM/FT²

GENERAL NOTES

- IS TO START INSIDE THE BUILDING.
- SCOPE OF WORK INCLUDES ADDING NEW AUTOMATIC WET FIRE SPRINKLER SYSTEM THROUGHOUT ASSISTED LIVING CENTER, AND AUTOMATIC DRY FIRE SPRINKLER SYSTEM THROUGHOUT EXTERIOR CANOPY AND PORTE COCHERE.
- ALL DESIGN, MATERIAL TESTING, AND INSTALLATION SHALL MEET NFPA 13, 2016 ed. AND NFPA 13R, 2016 ed.
- ALL PIPING 3" AND LARGER SHALL BE EDDYFLOW BLACK STEEL PIPE AND WILL USE CAST IRON THREADED AND GROOVED FITTINGS.
- SPRINKLER HEADS ARE REQUIRED TO BE LOCATED IN THE CENTER OF CEILING TILES.
- ALL CLEANING AND PAINTING OF PIPE IS BY OTHERS.
- ALL ELECTRICAL WORK IS BY OTHERS.

SYMBOL LEGEND

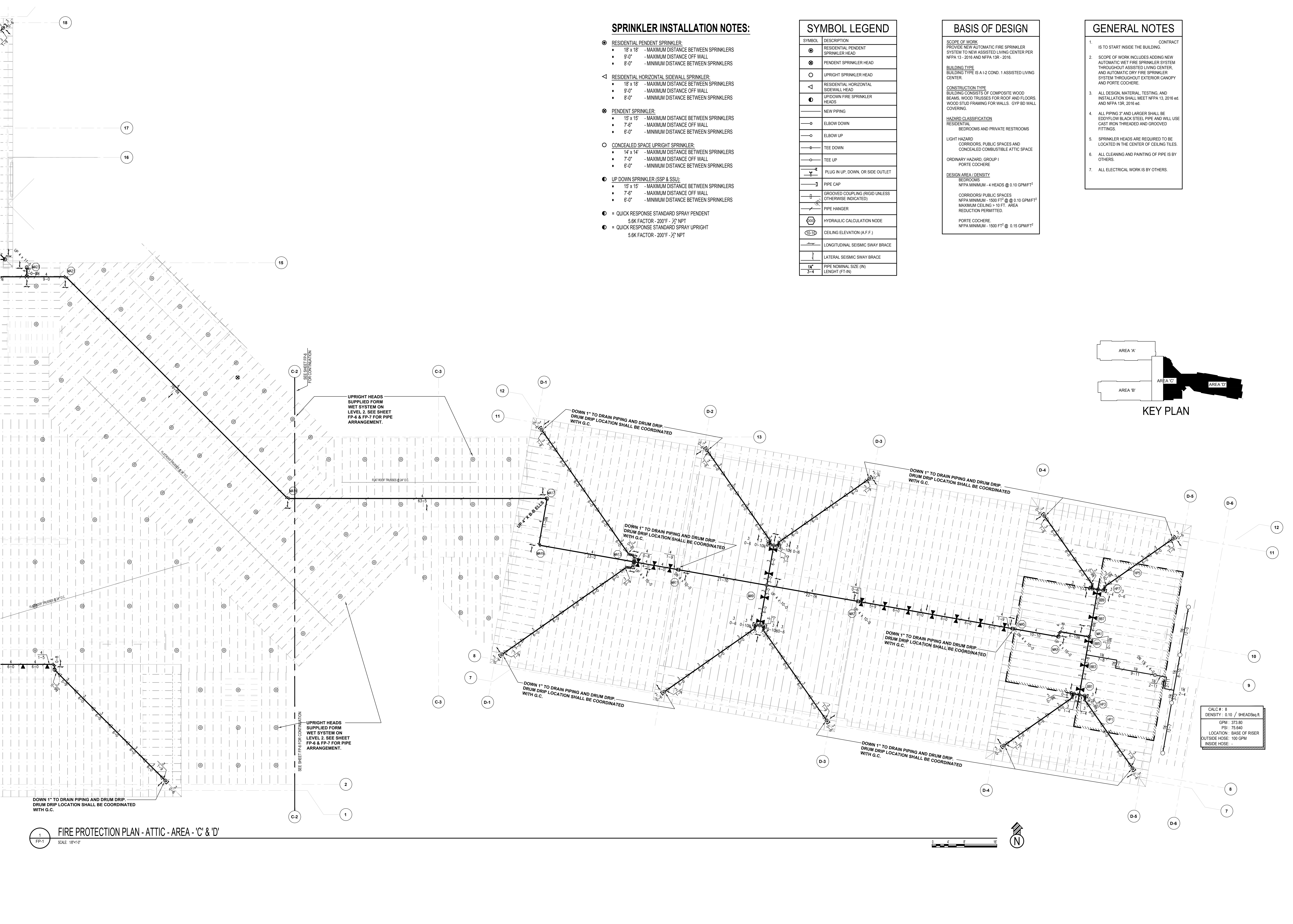
SYMBOL	DESCRIPTION
●	RESIDENTIAL PENDENT SPRINKLER HEAD
⊙	PENDENT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
◁	RESIDENTIAL HORIZONTAL SIDEWALL HEAD
●	UP/DOWN FIRE SPRINKLER HEADS
—	NEW PIPING
↘	ELBOW DOWN
↗	ELBOW UP
⊥	TEE DOWN
⊥	TEE UP
+	PLUG IN UP, DOWN, OR SIDE OUTLET
—	PIPE CAP
—	GROOVED COUPLING (RIGID UNLESS OTHERWISE INDICATED)
—	PIPE HANGER
⊙	HYDRAULIC CALCULATION NODE
10-10	CEILING ELEVATION (A.F.F.)
—	LONGITUDINAL SEISMIC SWAY BRACE
—	LATERAL SEISMIC SWAY BRACE
14"	PIPE NOMINAL SIZE (IN)
3'-4"	LENGTH (FT-IN)



KEY PLAN

FIRE PROTECTION PLAN - ATTIC - AREA 'A' - 'B' & PARTIAL 'C'

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



SPRINKLER INSTALLATION NOTES:

- **RESIDENTIAL PENDENT SPRINKLER:**
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- ◁ **RESIDENTIAL HORIZONTAL SIDEWALL SPRINKLER:**
 - 18" x 18" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 9'-0" - MAXIMUM DISTANCE OFF WALL
 - 8'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- ⊗ **PENDENT SPRINKLER:**
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- **CONCEALED SPACE UPRIGHT SPRINKLER:**
 - 14" x 14" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-0" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- **UP/DOWN SPRINKLER (SSP & SSU):**
 - 15" x 15" - MAXIMUM DISTANCE BETWEEN SPRINKLERS
 - 7'-6" - MAXIMUM DISTANCE OFF WALL
 - 6'-0" - MINIMUM DISTANCE BETWEEN SPRINKLERS
- = QUICK RESPONSE STANDARD SPRAY PENDENT
5.6K FACTOR - 200°F - 1/2" NPT
- = QUICK RESPONSE STANDARD SPRAY UPRIGHT
5.6K FACTOR - 200°F - 1/2" NPT

SYMBOL LEGEND

SYMBOL	DESCRIPTION
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—	ELBOW UP
—	TEE DOWN
—	TEE UP
—	PLUG IN UP, DOWN, OR SIDE OUTLET
—	PIPE CAP
—	GROOVED COUPLING (RIGID UNLESS OTHERWISE INDICATED)
—	PIPE HANGER
—	HYDRAULIC CALCULATION NODE
—	CEILING ELEVATION (A.F.F.)
—	LONGITUDINAL SEISMIC SWAY BRACE
—	LATERAL SEISMIC SWAY BRACE
1/4"	PIPE NOMINAL SIZE (IN)
3-4	LENGTH (FT-IN)

BASIS OF DESIGN

SCOPE OF WORK
PROVIDE NEW AUTOMATIC FIRE SPRINKLER SYSTEM TO NEW ASSISTED LIVING CENTER PER NFPA 13 - 2016 AND NFPA 13R - 2016.

BUILDING TYPE
BUILDING TYPE IS A 1-2 COND. 1 ASSISTED LIVING CENTER.

CONSTRUCTION TYPE
BUILDING CONSISTS OF COMPOSITE WOOD BEAMS, WOOD TRUSSES FOR ROOF AND FLOORS, WOOD STUD FRAMING FOR WALLS. GYP BD WALL COVERING.

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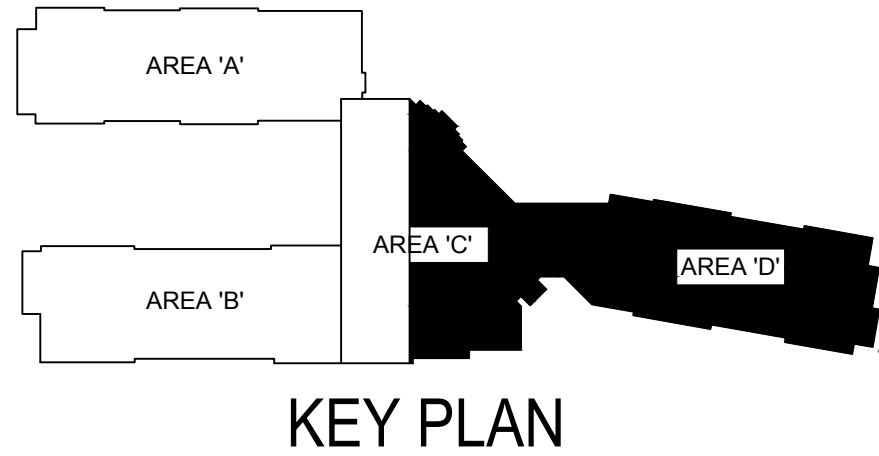
LIGHT HAZARD
CORRIDORS, PUBLIC SPACES AND CONCEALED COMBUSTIBLE ATTIC SPACE

ORDINARY HAZARD, GROUP I
PORTE COCHERE

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7. ALL ELECTRICAL WORK IS BY OTHERS.



CALC # : 8
DENSITY : 0.10 / SHEADsq.ft.
GPM : 373.80
PSI : 75.640
LOCATION : BASE OF RISER
OUTSIDE HOSE : 100 GPM
INSIDE HOSE : —