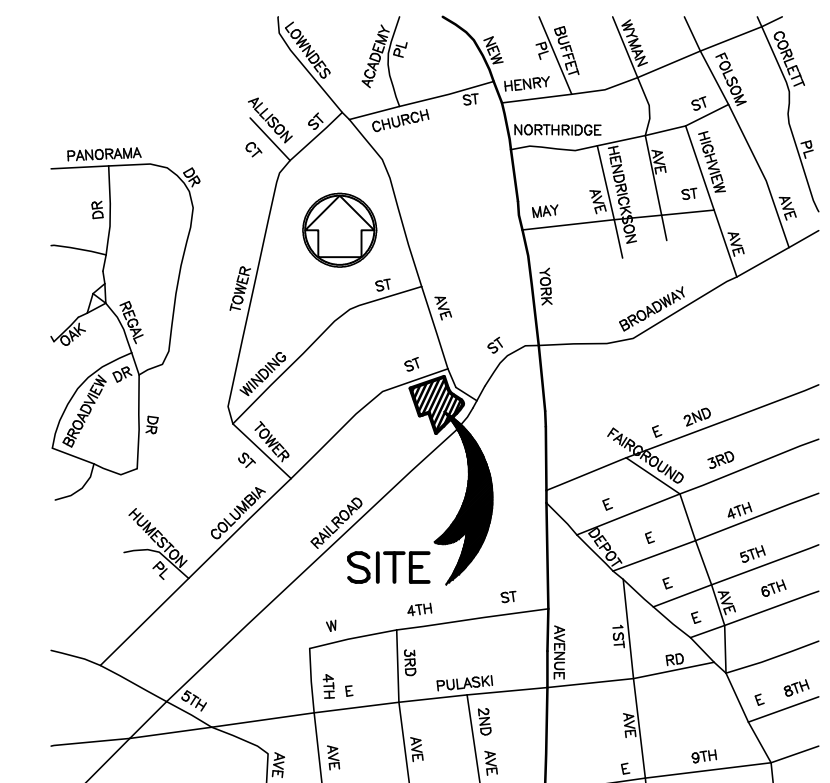


TOWN OF HUNTINGTON COMMUNITY DEVELOPMENT AGENCY

100 MAIN STREET, HUNTINGTON, NEW YORK 11743

COLUMBIA TERRACE CONDOMINIUMS HUNTINGTON STATION, NEW YORK 11746

CONTRACT No. 2017-100



LOCATION MAP
SCALE: 1"=1000'

ENGINEERING PREPARED BY

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SURVEY AND TOPOGRAPHIC INFORMATION PREPARED BY

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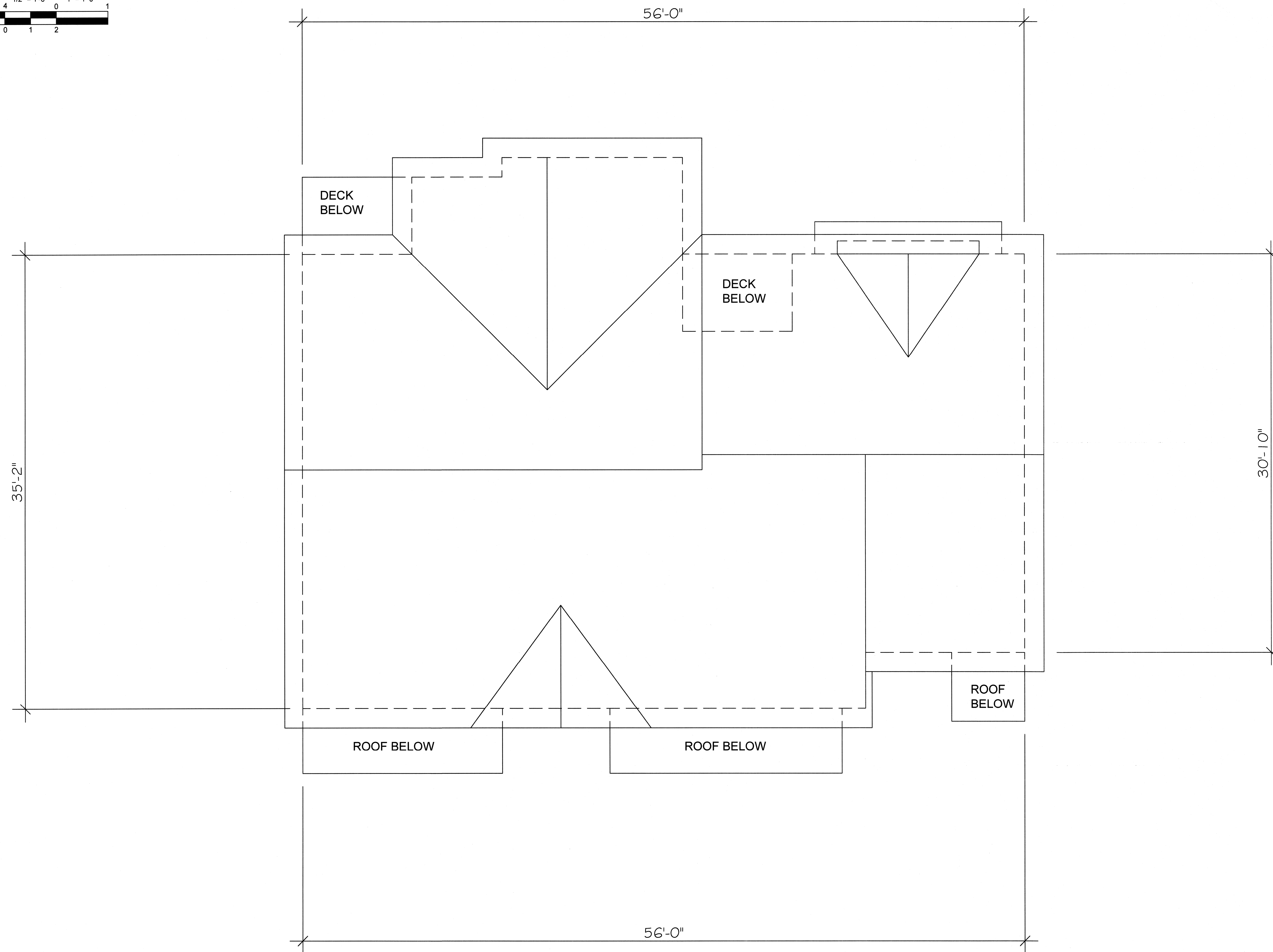
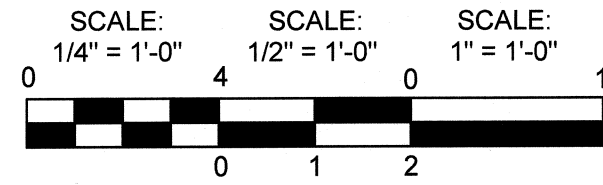
SHIRLEY, NEW YORK 11967

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SP-3	FIRELINE SERVICE & RPZ VALVE PLAN & IRRIGATION DC VALVE PLAN
SP-4	DRAINAGE and GRADING PLAN
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3-9-15, REVISED DRAWING LIST
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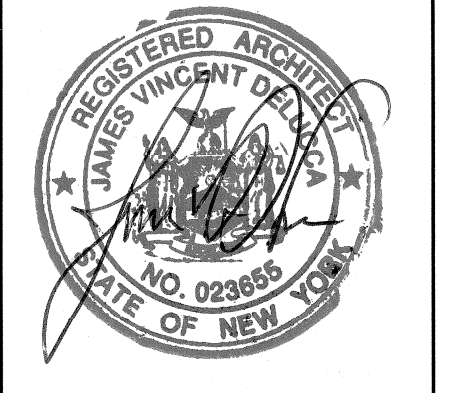
FOUR UNIT BUILDING
 ROOF PLAN
 SCALE: 1/4" = 1'-0"

- HDR HEADER
- TYP TYPICAL
- O/C ON CENTER
- STL STEEL
- CL CLOSET
- REQ'D REQUIRED
- GYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
- FJ FLOOR JOIST
- CJ CEILING JOIST
- CT COLLAR TIES
- RM ROOM
- DR DINING ROOM
- BD BOARD
- FL FLOOR
- CD CEILING DIFFUSER
- RD ROOF DIFFUSER
- H/LR HIGH LOW RETURN
- SW SIDE WALL SUPPLY
- WH WATER HEATER
- WD WASHER DRYER
- DW DISHWASHER

REVISIONS	
3 / 18 / 2015	JVD
5 / 9 / 2015	JVD
5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

COLUMBIA TERRACE CONDOMINIUMS
 HUNTINGTON STATION, NEW YORK

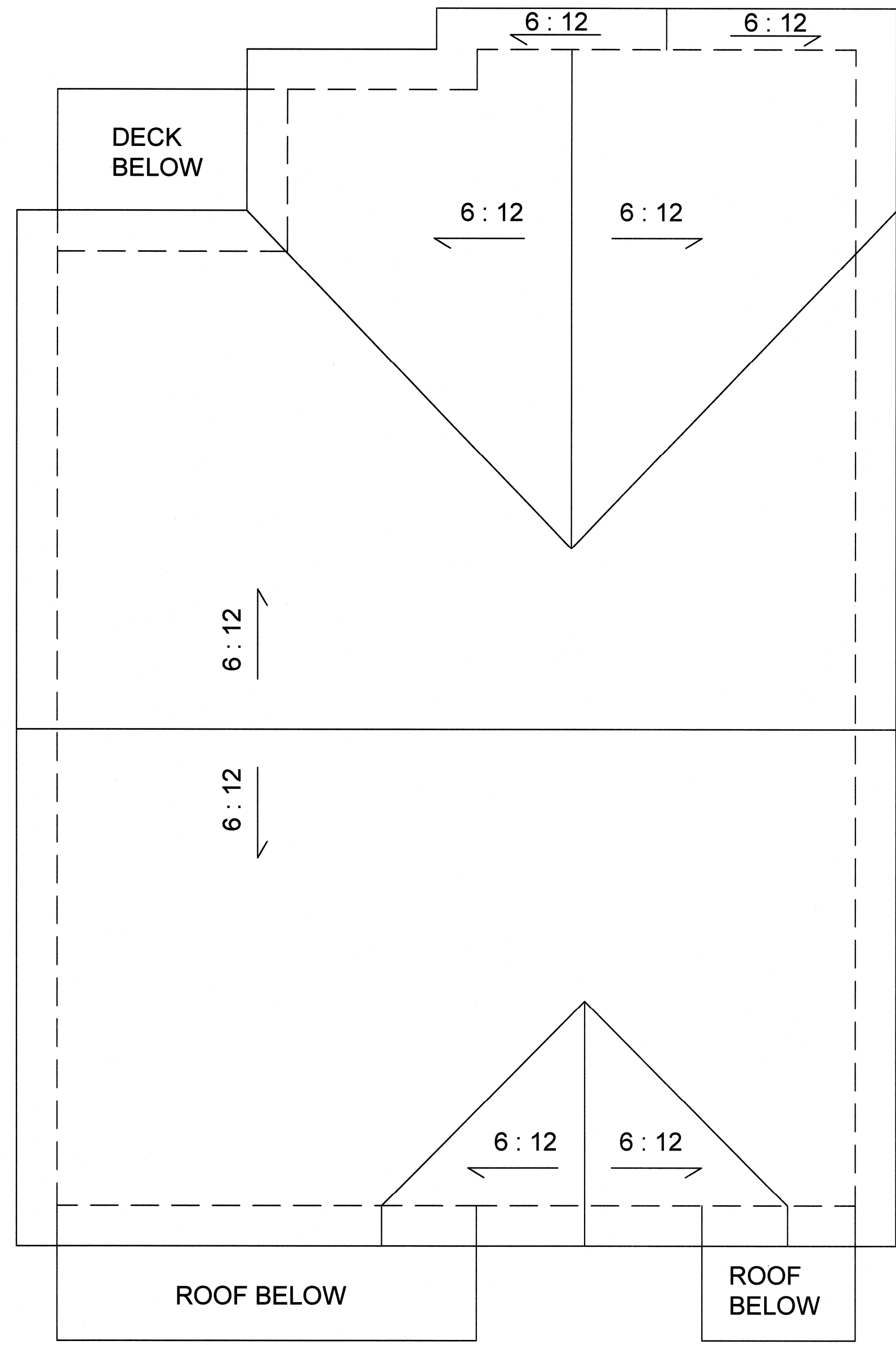
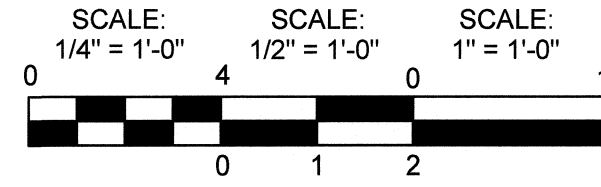
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DESIGNED	J.V.D.
DRAWN	L.B.S.
DATE	9 / 3 / 2019
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET

R-1

CONTRACT NO.
 CDA 2017-100



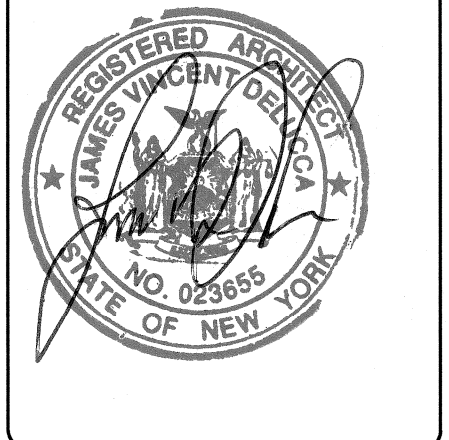
TWO UNIT BUILDING
ROOF PLAN
 SCALE: 1/4" = 1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL. STEEL
- CL. CLOSET
- REQ'D. REQUIRED
- GYP. BD. GYPSUM BOARD
- RR. ROOF RAFTERS
- CONC. CONCRETE
- FJ. FLOOR JOIST
- CJ. CEILING JOIST
- CT. COLLAR TIES
- RM. ROOM
- DR. DINING ROOM
- BD. BOARD
- FL. FLOOR
- CD. CEILING DIFFUSER
- RD. ROOF DIFFUSER
- H/L/R. HIGH LOW RETURN
- SW. SIDE WALL SUPPLY
- WH. WATER HEATER
- WD. WASHER DRYER
- DW. DISHWASHER

REVISIONS	

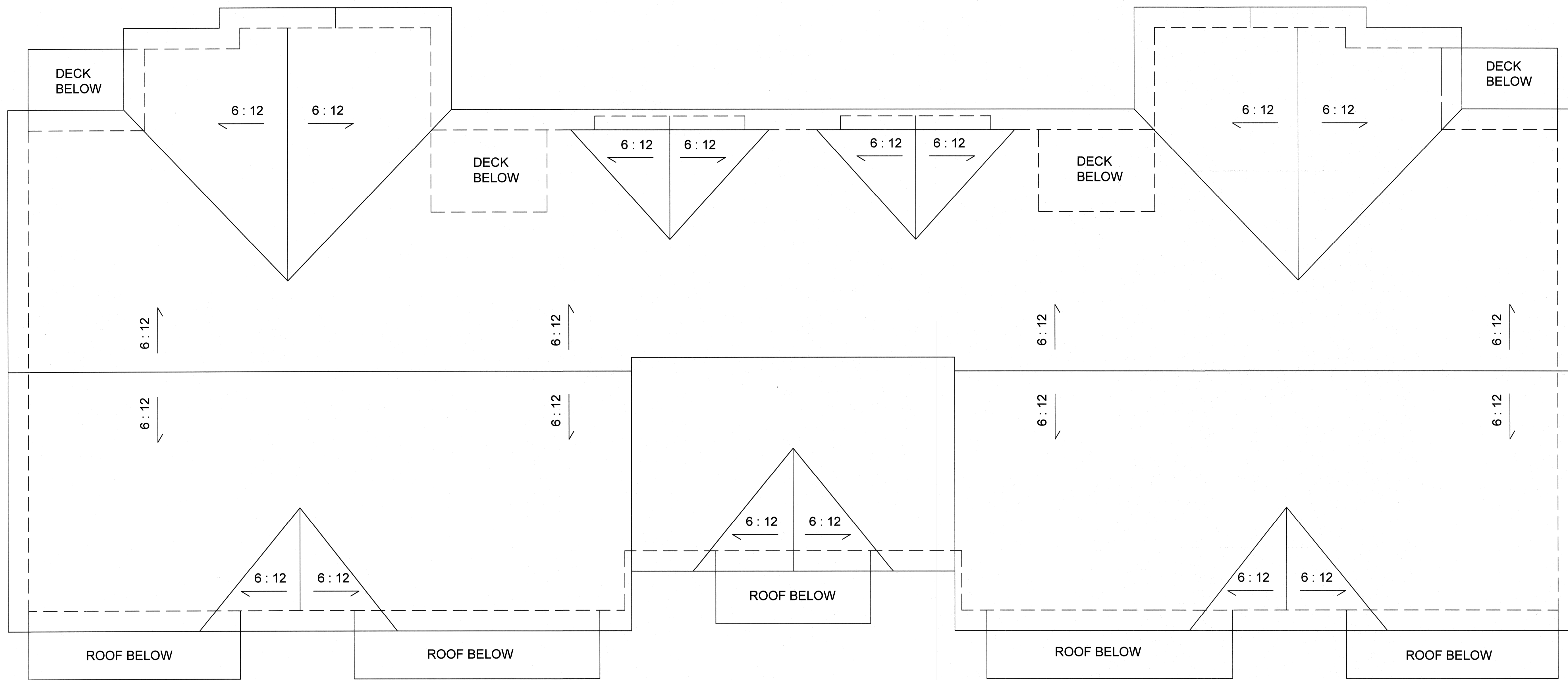
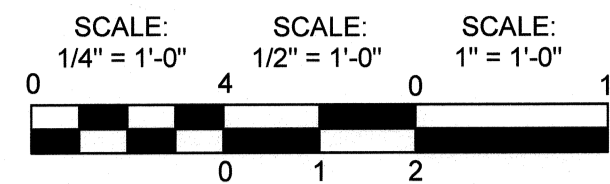
COLUMBIA TERRACE CONDOMINIUMS
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R-2
 CONTRACT NO.
 CDA 2017-100



EIGHT UNIT BUILDING
ROOF PLAN
SCALE: 1/4"=1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL STEEL
- CL CLOSET
- REQ'D REQUIRED
- GYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
- FJ FLOOR JOIST
- CJ CEILING JOIST
- CT COLLAR TIES
- RM ROOM
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- WD WASHER DRYER
- DW DISHWASHER

REVISIONS	

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

JAMES V. DE LUCCA, R.A.
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DESIGNED	J.V.D.
DRAWN	L.B.S.
DATE	9 / 3 / 2019
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
R-3	
CONTRACT NO. CDA 2017-100	

COLUMBIA TERRACE CONDOMINIUMS HUNTINGTON STATION, NEW YORK

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ENERGY EFFICIENCY REQUIREMENTS

TABLE 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS
BY COMPONENTS (CLIMATE ZONE FOUR)

COMPONENT	REQUIRED VALUE	PROVIDED VALUE
Fenestration	U = 0.35	U = 0.31
Ceiling	R = 38	R = 38
Wood Frame Wall	R = 13	R = 15
Slab	R = 10	R = 10
Floor	R = 19	R = 23

All windows are ANDERSEN 400 SERIES HP LOW - EA SUN WITH GRILLES

1. OCCUPANCY CLASSIFICATION:

RESIDENTIAL GROUP R2
FIRST FLOOR HANDICAPPED TYPE B UNITS
ARE DESIGNED PER N.Y.S.B.C. SECTION 1107
AND IBC/ANSI A117.1-2009 SECTION 1004

2. TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

3. N.Y.S.B.C. TABLE 503 ALLOWABLE HEIGHT AND BUILDING AREA

GROUP R2 TYPE VB CONSTRUCTION PERMITTED
7,000 SQ. FT. PERMITTED PER FLOOR
2 STORIES ARE PERMITTED

BUILDING TYPE	VINYL SIDING	ROOF SHINGLES	STONE VENEER
2 UNIT	HERITAGE CREAM	SHAKEWOOD	CEDAR
4 UNIT	TEA	HUNTER GREEN	MIST
8 UNIT	STERLING GRAY	SLATE	SUEDE

FLOOR AREA OF UNITS

- 1) FIRST FLOOR ONE BEDROOM UNIT = 769 SQ. FT.
- 2) SECOND FLOOR ONE BEDROOM UNIT = 840 SQ. FT.
- 3) FIRST FLOOR TWO BEDROOM UNIT = 1,125 SQ. FT.
- 4) SECOND FLOOR TWO BEDROOM UNIT = 1,212 SQ. FT.

GENERAL NOTES

1. All construction shall be in compliance with all required sections of Building Code of N.Y.S., A.C.I., Reinforced Concrete Building Code, A.I.S.C. Structural Steel Manual, and Steel Joist Institute Specifications.
2. All construction is to be in accordance with prevailing codes and standards. When building in other jurisdictions, variations or adjustments may be required. Verify any such requirements with the local code or enforcement officer.
3. All materials and methods of construction for this project must conform to the requirements of all applicable federal, state and local ordinances.
4. All materials for this project shall be installed in compliance with manufacturers specifications and recommendations.
5. The Architect or Engineer assumes no responsibility for construction means, methods, techniques, sequences or procedures, or for safety precautions and program in connection with work. There are no warranties, nor any merchantability of fitness for a specific use expressed or implied in the use of these plans.
6. The Architects or Engineers certification applies only to this plan. Alteration of this document, except by a licensed professional Architect or Engineer is illegal.
7. Architects or Engineers seal and signature only good for initial use of drawings. Changes, alterations or revisions to re-use of drawings without Architects or Engineers approval voids Seal and Signature on same.
8. Contractor to verify all dimensions and conditions, before construction, and notify the Architect or Engineer of any discrepancies. Do not scale drawings; follow dimensions only.
9. All plumbing is to conform to N.Y.S. and Local Plumbing Code requirements.
10. Electrical work to conform to the National Electric Code and applicable Local Codes.
11. All framing lumber to be Doug / Fir 75% #1 and 25% #2.
12. All loadings to rest on virgin soil or compacted code.
13. Bearing capacity of soil shall conform to building code.
14. All concrete is 3,500 P.S.I. @ 28 day min.
15. All lumber and plywood must be grade stamped.
16. Double support studs under all headers 5'-6" and larger.
17. Double framing members around all openings and below all parallel partitions.
18. Simpson conn. required all flush structural load carrying conditions.
19. All interior headers to be (2) (2 X 6) unless otherwise noted.
20. All exterior headers to be (2) (2 X 12) unless otherwise noted.
21. Smoke detecting device electrically operated. Installed per code.
22. All bathrooms without a window must be provided with a fan vented to exterior per code.
23. This structure is designed to specifications from manuals by Southern Building Code Congress Intl. Roof trusses must be designed per ASCE 7 for a minimum of 20 PSF snow load.
24. Building permit required prior to the start of any work.
25. Truss members and components shall not be cut, drilled, notched, spliced or otherwise altered in any way without the written concurrence and approval of a registered design professional. This includes floor and ceiling/roof trusses.
26. The enclosed architectural construction working drawings have been designed to utilize wall panel type five wood frame construction.

REVISIONS		
3 / 18 / 2015	JVD	
5 / 9 / 2015	JVD	
5 / 16 / 2016	JVD	
6 / 2 / 2017	JVD	

**COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK**

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12 LINDA LANE EAST
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(631) 727-1611**

DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
CONTRACT NO.	A-1
CDA 2017-100	

1. TYPE VB STRUCTURAL DESIGN

(A) FOR DESIGN LOADS SEE TABLE 1607.1 N.Y.S.B.C.

(B) SNOW LOAD FIGURE 1608.2 N.Y.S.B.C.

(C) WIND LOAD FIGURE 1609 N.Y.S.B.C.

2. PER SECTION 903.2.7 GROUP R OF THE N.Y.S.B.C.

AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS.

STRUCTURAL DESIGN

TABLE 1607.1—Continued
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS AND
MINIMUM CONCENTRATED LIVE LOADS^a

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs)
24. Manufacturing		
Heavy	250	3,000
Light	125	2,000
25. Mercantile	75	
26. Office buildings		
Corridors above first floor	80	2,000
File and computer rooms shall be designed for heavier loads based on anticipated occupancy		
Lobbies and first-floor corridors	100	2,000
Offices	50	2,000
27. Penal institutions		
Cell blocks	40	
Corridors	100	
28. Residential		
One- and two-family dwellings		
Uninhabitable attic without storage ^b	10	
Uninhabitable attic with limited storage ^{c, d}	20	
Habitable attic and sleeping areas	30	
All other areas except balconies and decks	40	
Hotels and multiple-family dwellings		
Private rooms and corridors serving them	40	
Public rooms and corridors serving them	100	
29. Receiving stands, grandstands and bleachers		Note c
30. Roofs		300
All roof surfaces subject to maintenance workers		
Awnings and canopies		
Fabric construction supported by a lightweight rigid skeleton structure	5	nondecks
All other construction	20	
Ordinary flat, pitched, and curved roofs	20	
Primary roof members, exposed to a wind force		
Single panel point of lower chord of roof trusses or any joint along primary structural members supporting roof:		
Over manufacturing, storage warehouses, and repair garages		2,000
All other occupancies		300
Roofs used for other special purposes	Note 1	Note 1
Roofs used for promenade passages	60	
Roofs used for roof gardens or assembly purposes	100	

continued

TABLE 1607.1—Continued
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS AND
MINIMUM CONCENTRATED LIVE LOADS^a

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs)
31. Schools		
Classrooms	40	1,000
Corridors above first floor	80	1,000
First-floor corridors	100	1,000
32. Scenics, skylight ribs and accessible ceilings		200
33. Sidewalks, vehicular driveways and yards, subject to trucking	250 ^e	8,000 ^e
34. Skating rinks	100	
35. Stadiums and arenas		
Bleachers	100 ^f	
Fixed seats (fastened to floor)	60 ^f	
36. Stairs and exits		
One- and two-family dwellings	40	Note f
All other	100	
37. Storage warehouses (shall be designed for heavier loads if required for anticipated storage)		
Heavy	250	
Light	125	
38. Stores		
Retail		
First floor	100	1,000
Upper floors	75	1,000
Wholesale, all floors	125	1,000
39. Vehicle barriers		See Section 1607.3
40. Walkways and elevated platforms (other than exterior)	60	
41. Yards and terraces, pedestrian	100	

continued

TABLE 1609.3.1
EQUIVALENT BASIC WIND SPEEDS^{a,b,c}

V ₁₀	85	90	100	105	110	120	125	130	140	145	150	160	170
V ₁₅	71	76	85	90	95	104	109	114	123	128	133	142	152

For SE: 1 mile per hour = 0.44 m/s.
a. Linear interpolation is permitted.
b. V₁₀ is the 3-second gust wind speed (mph).
c. V₁₅ is the fastest mile wind speed (mph).

1609.4 Exposure category. For each wind direction considered, an exposure category that adequately reflects the characteristics of ground surface irregularities shall be determined for the site at which the building or structure is to be constructed. Account shall be taken of variations in ground sur-

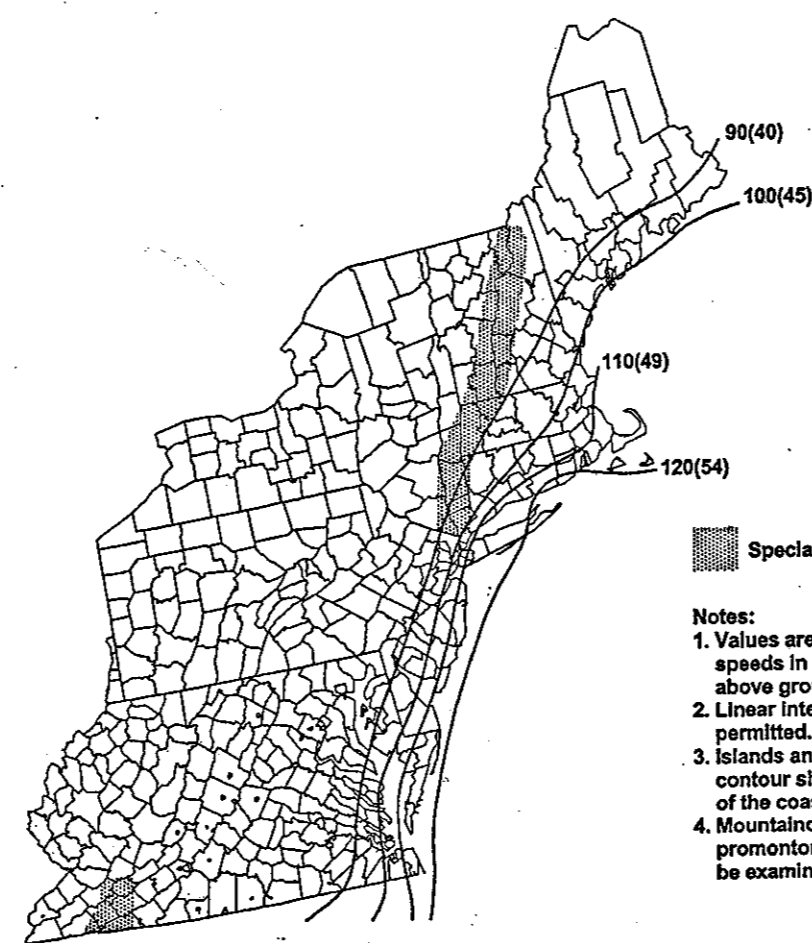


FIGURE 1609
BASIC WIND SPEED (3-SECOND GUST) MID AND NORTHERN ATLANTIC HURRICANE COASTLINE

STRUCTURAL DESIGN

face roughness that arise from natural topography and vegetation as well as from constructed features.
1609.4.1 Wind directions and sectors. For each selected wind direction at which the wind loads are to be evaluated, the exposure of the building or structure shall be determined for the two upwind sectors extending 45 degrees (0.79 rad) either side of the selected wind direction. The exposures in these two sectors shall be determined in accordance with Sections 1609.4.2 and 1609.4.3 and the exposure resulting in the highest wind loads shall be used to represent winds from that direction.
1609.4.2 Surface roughness categories. A ground surface roughness within each 45-degree (0.79 rad) sector shall be determined for a distance upwind of the site as defined in Section 1609.4.3 from the categories defined below, for the purpose of assigning an exposure category as defined in Section 1609.4.3.

Surface Roughness B. Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

INTERIOR FINISHES

TABLE 803.5
INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY^a

GROUP	SPRINKLERED			NONSPRINKLERED		
	Exit enclosures and exit passageways ^b	Corridors	Rooms and enclosed spaces ^c	Exit enclosures and exit passageways ^b	Corridors	Rooms and enclosed spaces ^c
A-1 & A-2	B	B	C	A	A ^d	B ^e
A-3, A-4, A-5	B	B	C	A	A ^d	C
B, E, M, R-1, R-4	B	C	C	A	B	C
F	C	C	C	B	C	C
H	B	B	C ^g	A	A	B
I-1	B	C	C	A	B	B
I-2	B	B	B ^{h, i}	A	A	B
I-3	A	A ^j	C	A	A	B
I-4	B	B	B ^{h, i}	A	A	B
R-2	C	C	C	B	B	C
R-3	C	C	C	C	C	C
S	C	C	C	B	B	C
U	No restrictions			No restrictions		

For SE: 1 inch = 25.4 mm, 1 square foot = 0.0929 m².
a. Class C interior finish materials shall be permitted for wainscoting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and finished as required by Section 803.4.1.
b. In exit enclosures of buildings less than three stories in height other than Group I-3, Class B interior finish for nonsprinklered buildings and Class C interior finish for sprinklered buildings shall be permitted.
c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered enclosing spaces and the rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.
d. Lobby areas in Group A-1, A-2 and A-3 occupancies shall not be less than Class B materials.
e. Class C interior finish materials shall be permitted in places of assembly with an occupant load of 300 persons or less.
f. For places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be permitted.
g. Class B material is required where the building exceeds two stories.
h. Class C interior finish materials shall be permitted in administrative spaces.
i. Class C interior finish materials shall be permitted in rooms with a capacity of four persons or less.
j. Class B materials shall be permitted as wainscoting extending not more than 48 inches above the finished floor in corridors.
k. Finish materials as provided for in other sections of this code.
l. Applies when the exit enclosures, exit passageways, corridors or rooms and enclosed spaces are protected by a sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

used in the assembly tested and shall comply with the provisions of Chapter 7.

SECTION 804
INTERIOR FLOOR FINISH

804.1 General. Interior floor finish and floor covering materials shall comply with Section 804.2 through 804.4.1.
Exception: Floor finishes and coverings of a traditional type, such as wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not comprised of fibers.
804.2 Classification. Interior floor finish and floor covering materials required by Section 804.4.1 to be of Class I or II materials shall be classified in accordance with NFPA 253. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows: Class I, 0.45 wats/cm² or greater; Class II, 0.22 wats/cm² or greater.

SECTION 1207
SOUND TRANSMISSION

1207.1 Scope. This section shall apply to common interior walls, partitions and floor/ceiling assemblies between adjacent dwelling units or between dwelling units and adjacent public areas such as halls, corridors, stairs or service areas.
1207.2 Air-borne sound. Walls, partitions and floor/ceiling assemblies separating dwelling units from each other or from public or service areas shall have a sound transmission class (STC) of not less than 50 (45 if field tested) for air-borne noise when tested in accordance with ASTM E 90. Penetrations or openings in construction assemblies for piping, electrical devices; recessed cabinets; bathtubs; soffits; or heating, ventilating or exhaust ducts shall be sealed, lined, insulated or otherwise treated to maintain the required ratings. This requirement shall not apply to dwelling unit entrance doors; however, such doors shall be tight fitting to the frame and sill.
1207.3 Structure-borne sound. Floor/ceiling assemblies between dwelling units or between a dwelling unit and a public or service area within the structure shall have an impact insulation class (IIC) rating of not less than 50 (45 if field tested) when tested in accordance with ASTM E 492.

906.3 Size and distribution. For occupancies that involve primarily Class A fire hazards, the minimum sizes and distribution shall comply with Table 906.3(1). Fire extinguishers for occupancies involving flammable or combustible liquids with depths of less than or equal to 0.25-inch (6.35 mm) shall be selected and placed in accordance with Table 906.3(2). Fire extinguishers for occupancies involving flammable or combustible liquids with a depth of greater than 0.25-inch (6.35 mm) or involving combustible metals shall be selected and placed in accordance with NFPA 10. Extinguishers for Class C fire hazards shall be selected and placed on the basis of the anticipated Class A or Class B hazard.

TABLE 906.3(2)
FLAMMABLE OR COMBUSTIBLE LIQUIDS WITH DEPTHS OF
LESS THAN OR EQUAL TO 0.25-INCH

TYPE OF HAZARD	BASIC MINIMUM EXTINGUISHER RATING	MAXIMUM TRAVEL DISTANCE TO EXTINGUISHERS (feet)
Light (Low)	5-B	30
	10-B	50
	20-B	30
Ordinary (Moderate)	20-B	50
	40-B	30
	80-B	50

For SE: 1 inch = 25.4 mm, 1 foot = 304.8 mm.
NOTE: For requirements on water-soluble flammable liquids and alternative listing criteria, see Section 4.3 of NFPA 10.

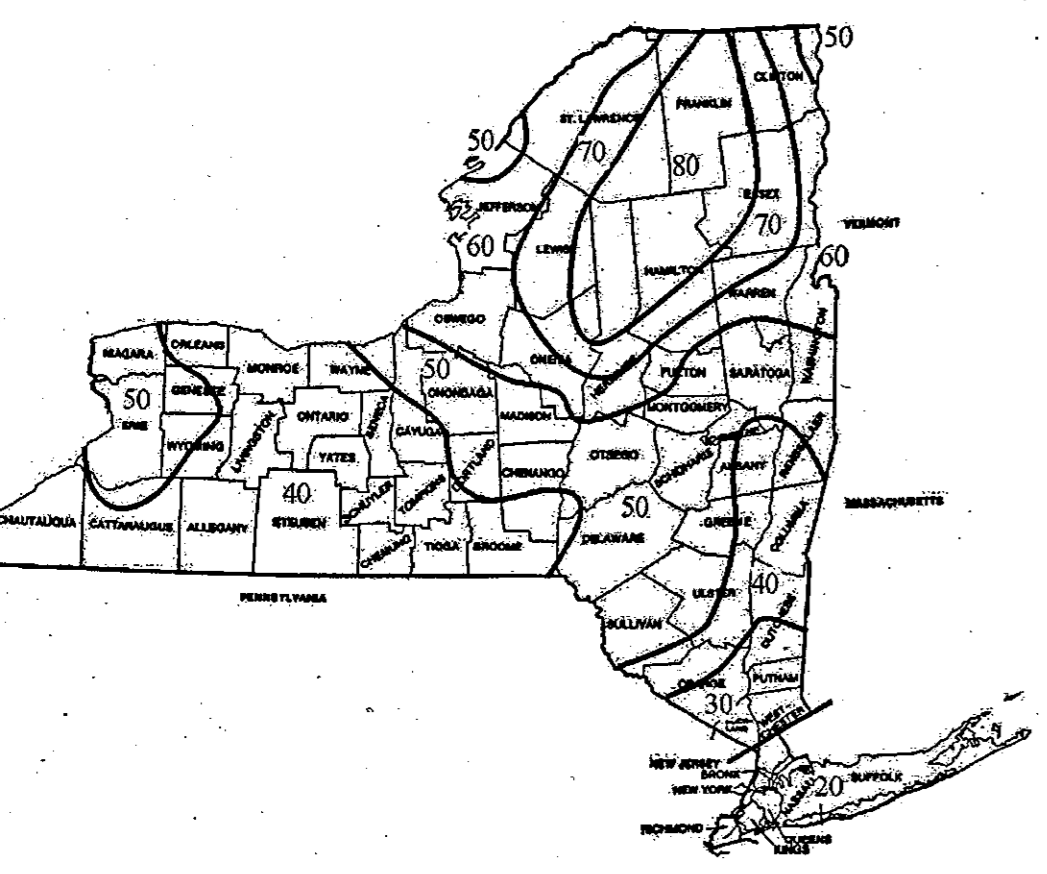


FIGURE 1608.2
GROUND SNOW LOADS, psf, FOR NEW YORK STATE (psf) GROUND SNOW LOADS AT ELEVATIONS ABOVE 1000 FEET SHALL BE INCREASED BY 2 PSF FOR EVERY 100 FEET ABOVE ELEVATION 1000 FEET

1264.4 Identification of truss type construction. (a) Truss type construction shall be identified by a sign or signs in accordance with the provisions of this Part.

(b) Signs shall be affixed where a building or a portion thereof is classified as Group A, B, E, F, H, I, M, or S occupancy, and in hotels and motels classified as Group R-1 or R-2 occupancy, in accordance with the provisions for the classification of buildings set forth in chapter 3 of the Building Code of New York State (see 19 NYCRR Part 1221).
(c) Signs shall be provided in newly constructed buildings that utilize truss type construction and in existing buildings where an addition that extends or increases the floor area of the building utilizes truss type construction. Signs shall be affixed prior to the issuance of a certificate of occupancy or a certificate of compliance.
(d) Signs identifying the existence of truss construction shall consist of a circle 6 inches (152.4 mm) in diameter, with a stroke width of 1/8 inch (12.7 mm). The sign background shall be reflective white in color. The circle and contents shall be reflective red in color, conforming to Pantone matching system (PMS) #187. Where a sign is directly applied to a door or sidelight, it may be a permanent non-fading sticker or decal. Signs not directly applied to doors or sidelights shall be of sturdy, non-fading, weather resistant material.
(e) Signs identifying the existence of truss construction shall contain the roman alphanumeric designation of the construction type of the building, in accordance with the provisions for the classification of types of construction set forth in section 602 of the Building Code of New York State (see 19 NYCRR Part 1221), and an alphabetic designation for the structural components that are of truss construction, as follows:
"F" shall mean floor framing, including girders and beams
"R" shall mean roof framing
"FR" shall mean floor and roof framing
The construction type designation shall be placed at the twelve o'clock position over the structural component designation, which shall be placed at the six o'clock position.
(f) Signs identifying the existence of truss construction shall be affixed in the locations specified in Table I-1264.

TABLE I-1264
TRUSS IDENTIFICATION SIGN LOCATIONS

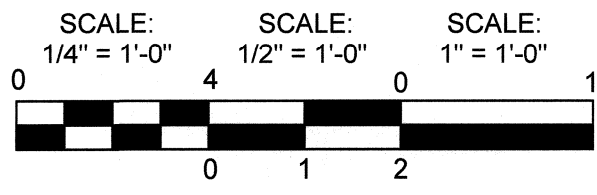
Sign location	Sign placement
Exterior building entrance doors, exterior exit discharge doors, and exterior roof access doors to a stairway	Attached to the door, or attached to a sidelight or the face of the building, not more than 12 inches (205 mm) horizontally from the latch side of the door jamb, and not less than 42 inches (1067 mm) nor more than 60 inches (1524 mm) above the adjoining walking surface.
Multiple contiguous exterior building entrance or exit discharge doors	Attached at each end of the row of doors and at a maximum horizontal distance of 12 feet (3.658 m) between signs, and not less than 42 inches (1067 mm) nor more than 60 inches (1524 mm) above the adjoining walking surface.
Fire department hose connections	Attached to the face of the building, not more than 12 inches (305 mm) horizontally from the center line of the fire department hose connection, and not less than 42 inches (1067 mm) nor more than 60 inches (1524 mm) above the adjoining walking surface.

REVISIONS	
3/18/2015	JVD
5/9/2015	JVD
5/16/2016	JVD
6/2/2017	JVD

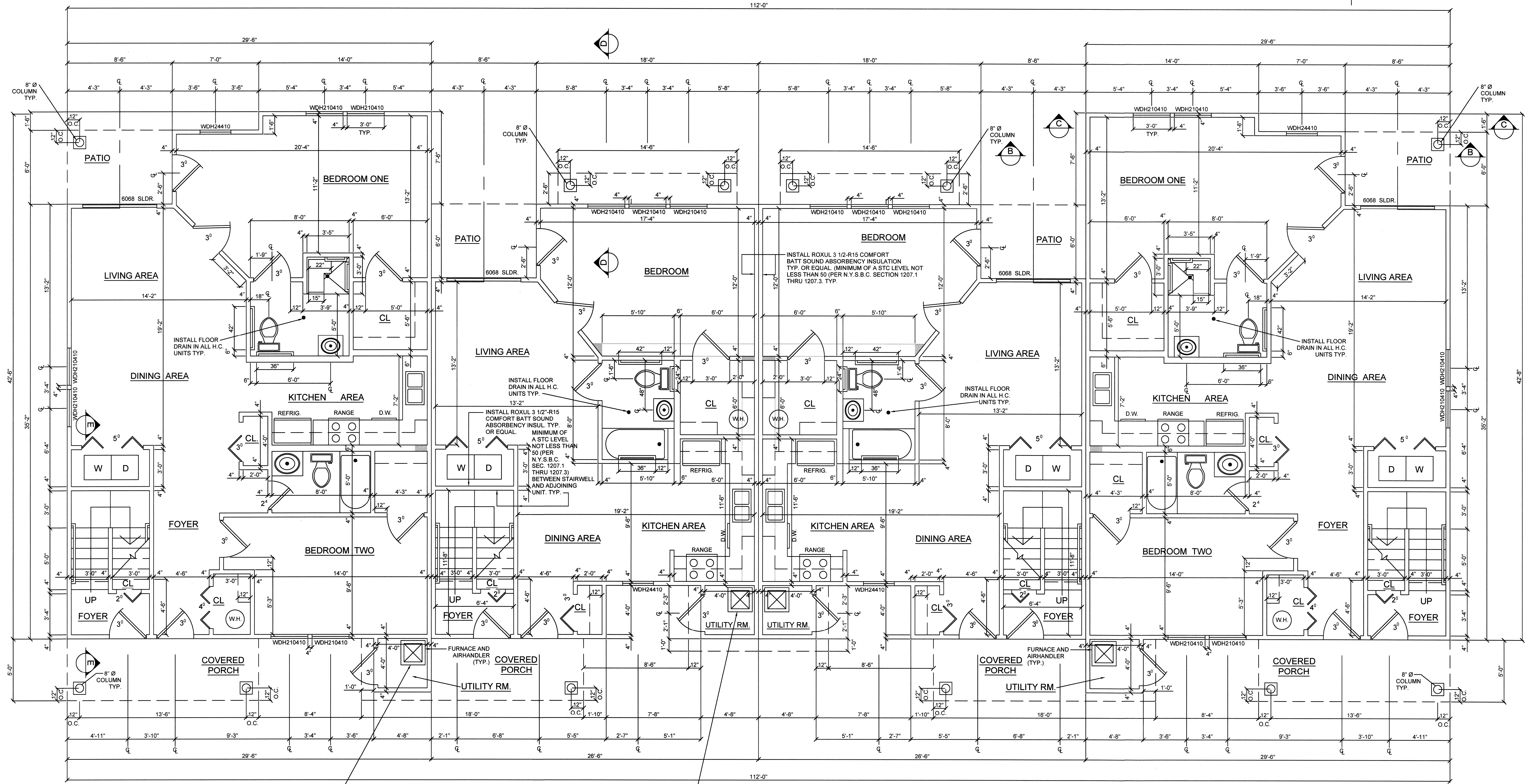
COLUMBIA TERRACE CONDOMINIUMS
 HUNTINGTON STATION, NEW YORK

DRAWN BY:
 JAMES V. DE LUCCA, R.A.
 12 LINDA LANE EAST
 RIVERHEAD, N.Y. 11901
 (631) 727-1611

DESIGNED
 J.V.D.
 DRAWN
 L.K.E.
 DATE
 6/3/2014
 SCALE
 AS NOTED
 JOB NO.
 COLUMBIA STREET
 A-2
 CONTRACT NO.
 CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT
1,119 S.F.
51 S.F. PATIO

ONE BEDROOM UNIT
756 S.F.
51 S.F. PATIO

ONE BEDROOM UNIT
756 S.F.
51 S.F. PATIO

TWO BEDROOM UNIT
1,119 S.F.
51 S.F. PATIO

FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.

ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.

CLEARANCES AND ACCESSIBILITY NOTES:
- For servicing or cleaning, a 24" front clearance is required.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

***MSS[92 & 96] MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)**

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.

***CSS[92 & 96] MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)**

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Counterflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.
NC = For installation on non-combustible floors only. A combustible subbase must be used for installations on combustible flooring.

REAR OF BUILDING PARKING LOT ENTRANCE

EIGHT UNIT BUILDING
FIRST FLOOR H.C. PLAN
SCALE: 1/4"=1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL. STEEL
- CL. CLOSET
- REQD. REQUIRED
- GYP. BD. GYPSUM BOARD
- RR. ROOF RAFTERS
- CONC. CONCRETE
- FJ. FLOOR JOIST
- CJ. CEILING JOIST
- CT. COLLAR TIES
- RM. ROOM
- DR. DINING ROOM
- BD. BOARD
- FL. FLOOR
- CD. CEILING DIFFUSER
- RD. ROOF DIFFUSER
- H/LR. HIGH LOW RETURN
- SW. SIDE WALL SUPPLY
- WH. WATER HEATER
- WD. WASHER DRYER
- DW. DISHWASHER

LEGEND

- SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- KITCHEN CABINET SOFFIT ONLY

NOTE: SEE HVAC FLOOR PLAN FOR SOFFIT SIZE THAT IS CONTAINING HVAC DUCTWORK.

REVISIONS	
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5/9/2015	JVD
5/16/2016	JVD
6/2/2017	JVD

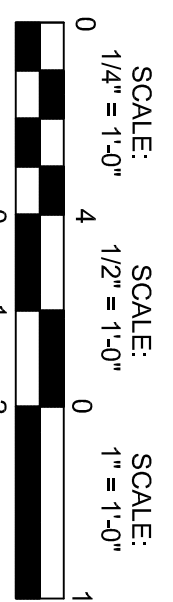
COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

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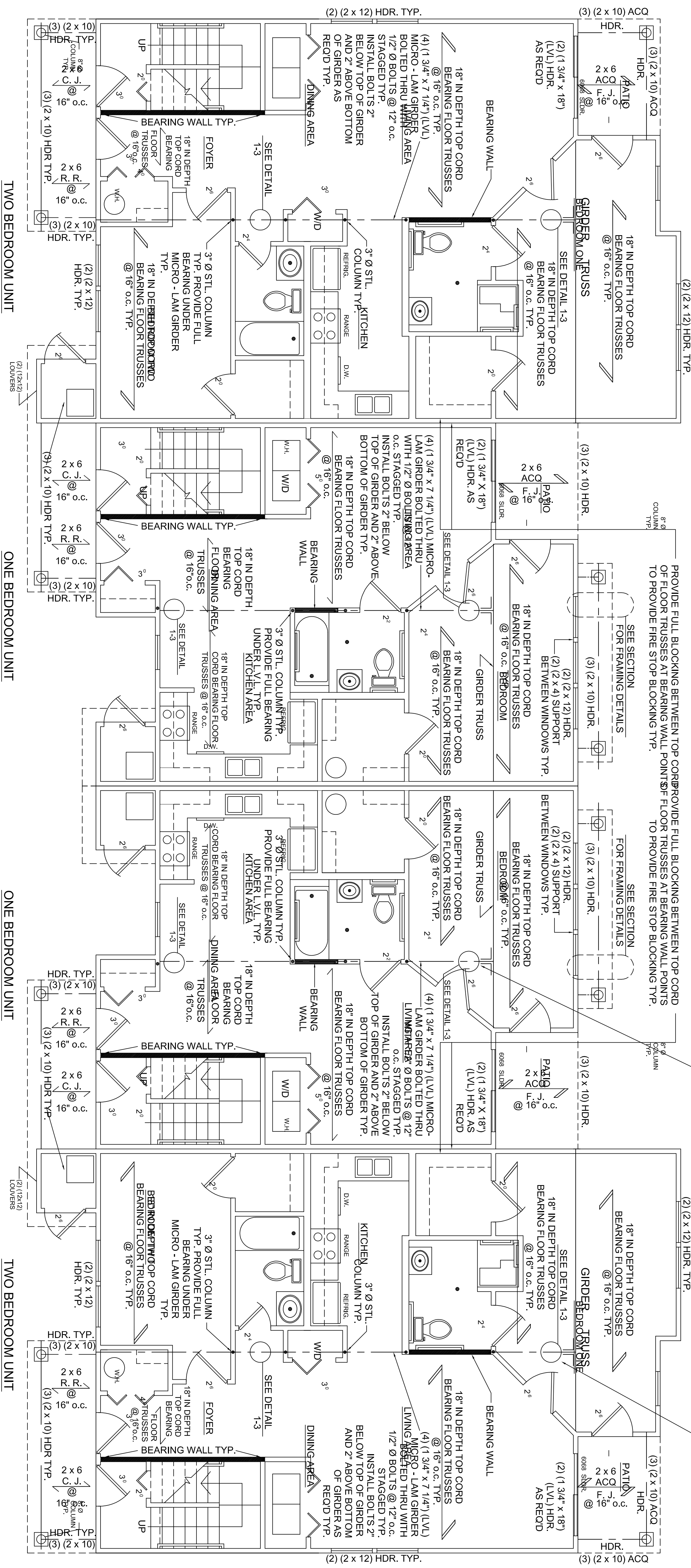


DESIGNED
J.V.D.
DRAWN
L.K.E.
DATE
6/3/2014
SCALE
AS NOTED
JOB NO.
COLUMBIA STREET

A-4
CONTRACT NO.
CDA 2017-100



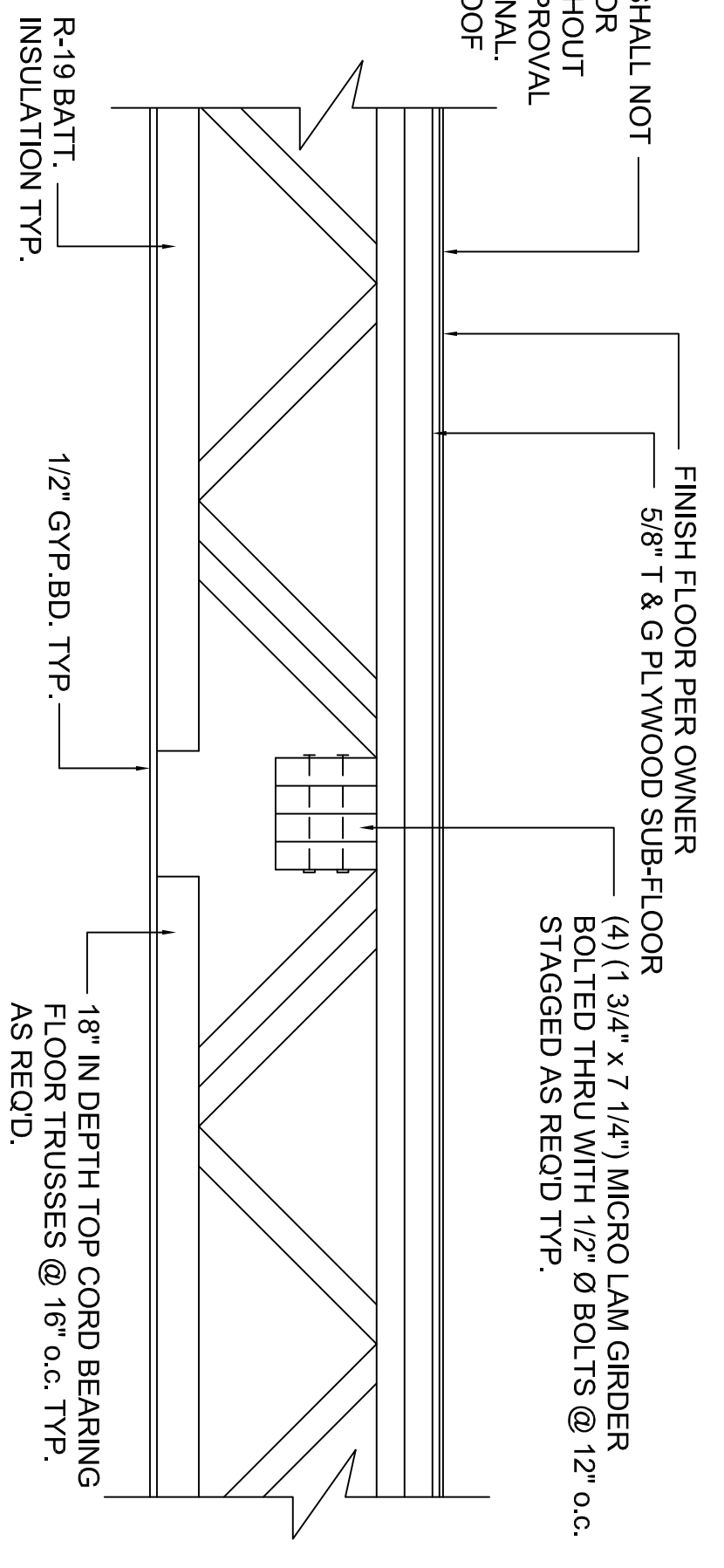
FRONT OF BUILDING STREET ENTRANCE



PROVIDE FULL BLOCKING BETWEEN TOP CORNER OF FLOOR TRUSSES AT BEARING WALL POINTS TO PROVIDE FIRE STOP BLOCKING TYP.

FLOOR TRUSS HANGERS ARE DESIGNED AND SUPPLIED BY TRUSS MANUFACTURER. DETAIL MUST BE PROVIDED BY MANUFACTURER FOR APPROVAL BY ARCHITECT AND BUILDING DEPARTMENT BEFORE INSTALLATION. TYP.

EIGHT UNIT BUILDING
FIRST FLOOR H.C. STRUCTURAL PLAN
SCALE: 1/4"=1'-0"



R/F
COLUMN
TYP.

R/F
COLUMN
TYP.

REVISIONS	DATE	BY
3 / 18 / 2015	JVD	
5 / 9 / 2015	JVD	
5 / 16 / 2016	JVD	
6 / 2 / 2017	JVD	

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

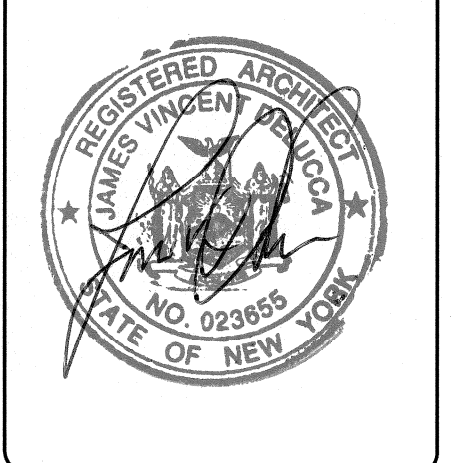
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DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
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JOB NO.	COLUMBIA STREET
CONTRACT NO.	A-5
	CDA 2017-100

REVISIONS		
3 / 18 / 2015	JVD	
5 / 9 / 2015	JVD	
5 / 16 / 2016	JVD	
6 / 2 / 2017	JVD	

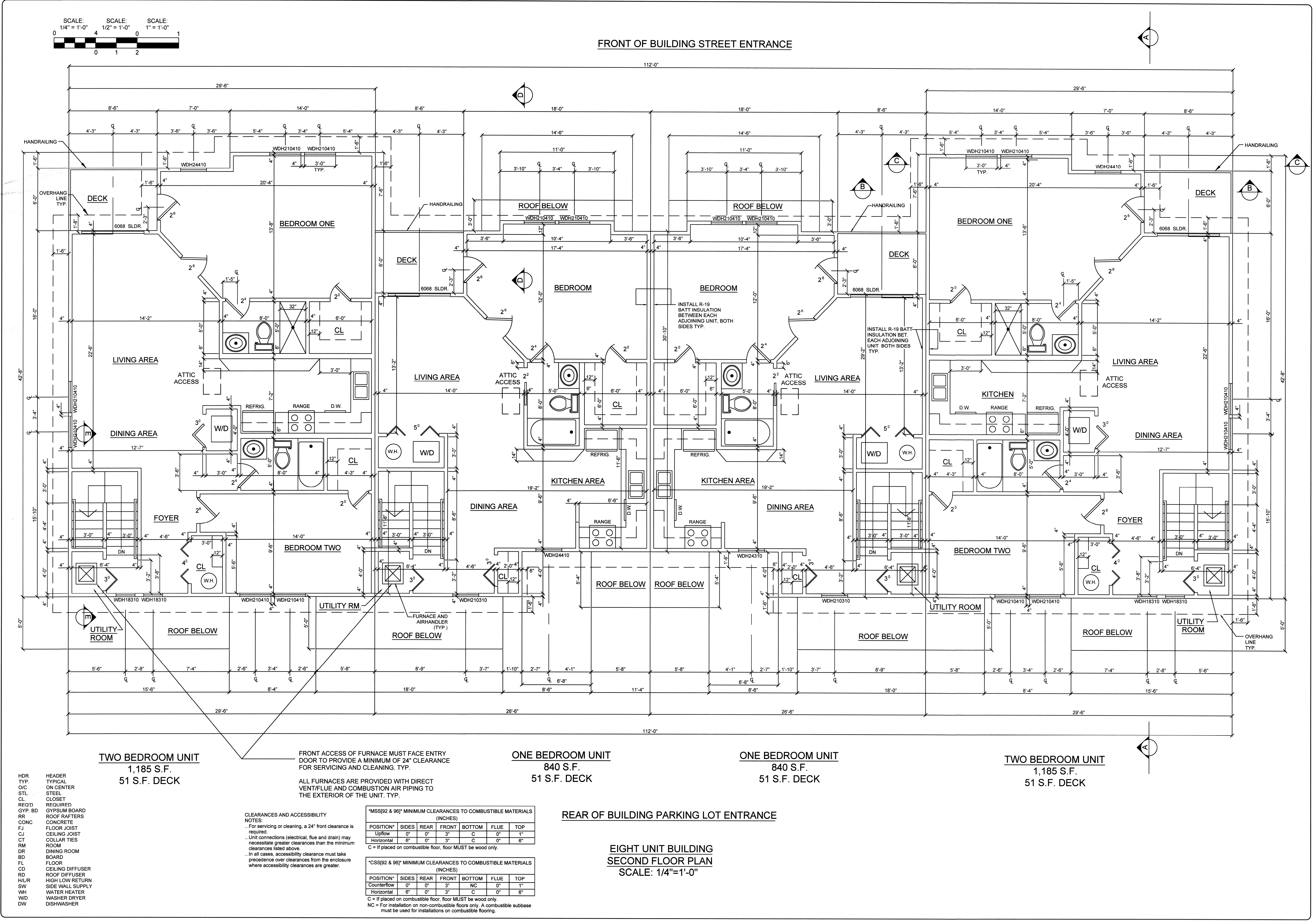
COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

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(631) 727-1611



DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET

A-6
 CONTRACT NO.
 CDA 2017-100



TWO BEDROOM UNIT
1,185 S.F.
51 S.F. DECK

FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.
ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT.

ONE BEDROOM UNIT
840 S.F.
51 S.F. DECK

ONE BEDROOM UNIT
840 S.F.
51 S.F. DECK

TWO BEDROOM UNIT
1,185 S.F.
51 S.F. DECK

REAR OF BUILDING PARKING LOT ENTRANCE

EIGHT UNIT BUILDING
SECOND FLOOR PLAN
 SCALE: 1/4"=1'-0"

- HDR HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL STEEL
- CL CLOSET
- REQ'D REQUIRED
- GYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
- FJ FLOOR JOIST
- CJ CEILING JOIST
- CT COLLAR TIES
- RM ROOM
- DR DINING ROOM
- BD BOARD
- FL FLOOR
- CD CEILING DIFFUSER
- RD ROOF DIFFUSER
- H/LR HIGH LOW RETURN
- SW SIDE WALL SUPPLY
- WH WATER HEATER
- W/D WASHER DRYER
- DW DISHWASHER

CLEARANCES AND ACCESSIBILITY NOTES:
 - For servicing or cleaning, a 24" front clearance is required.
 - Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
 - In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

***MSS(92 & 96) MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)**

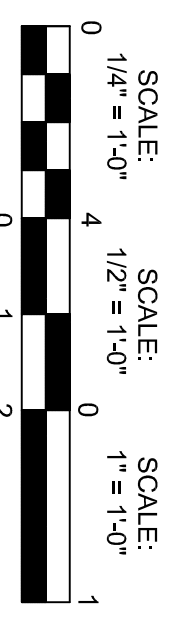
POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.

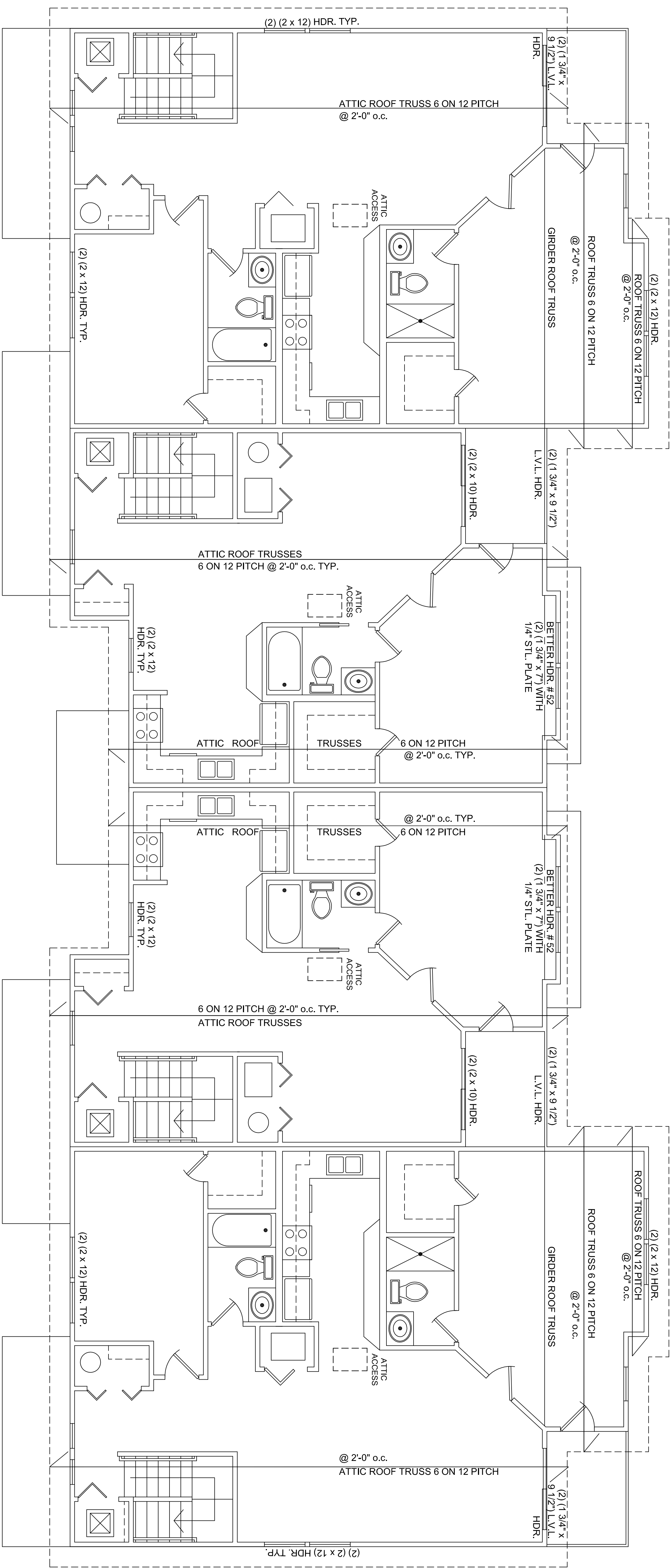
***CSS(92 & 96) MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)**

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Counterflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.
 NC = For installation on non-combustible floors only. A combustible subbase must be used for installations on combustible flooring.



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT

ONE BEDROOM UNIT

ONE BEDROOM UNIT

TWO BEDROOM UNIT

REAR OF BUILDING PARKING LOT ENTRANCE

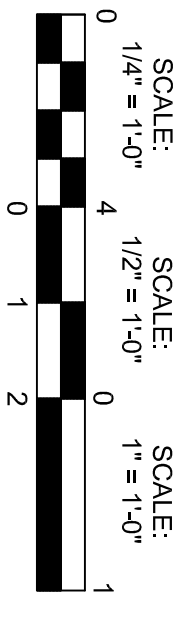
EIGHT UNIT BUILDING
SECOND FLOOR STRUCTURAL PLAN
SCALE: 1/4"=1'-0"

REVISIONS	
3 / 18 / 2015	JVD
5 / 9 / 2015	JVD
5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

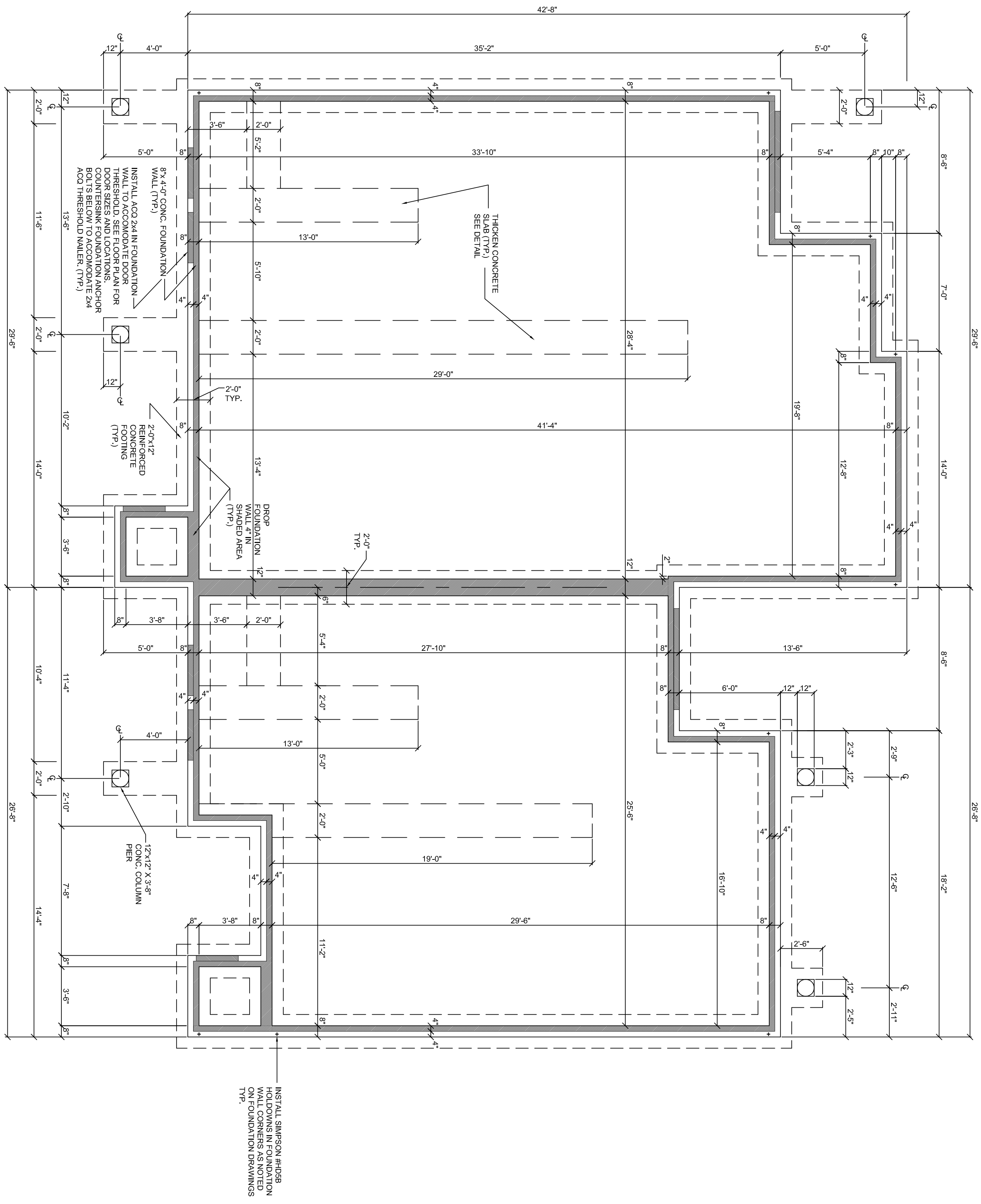
**COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK**

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(631) 727-1611

DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
A-7	
CONTRACT NO.	CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT

ONE BEDROOM UNIT

REAR OF BUILDING PARKING LOT ENTRANCE

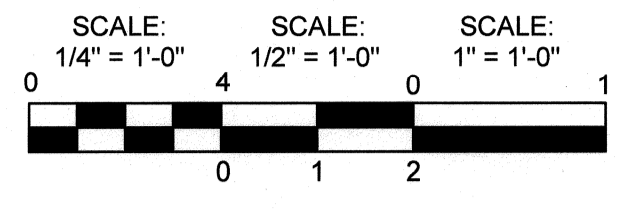
FOUR UNIT BUILDING
 FIRST FLOOR H.C. FOUNDATION PLAN
 SCALE: 1/4"=1'-0"

REVISIONS	
3 / 18 / 2015	JVD
5 / 9 / 2015	JVD
5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

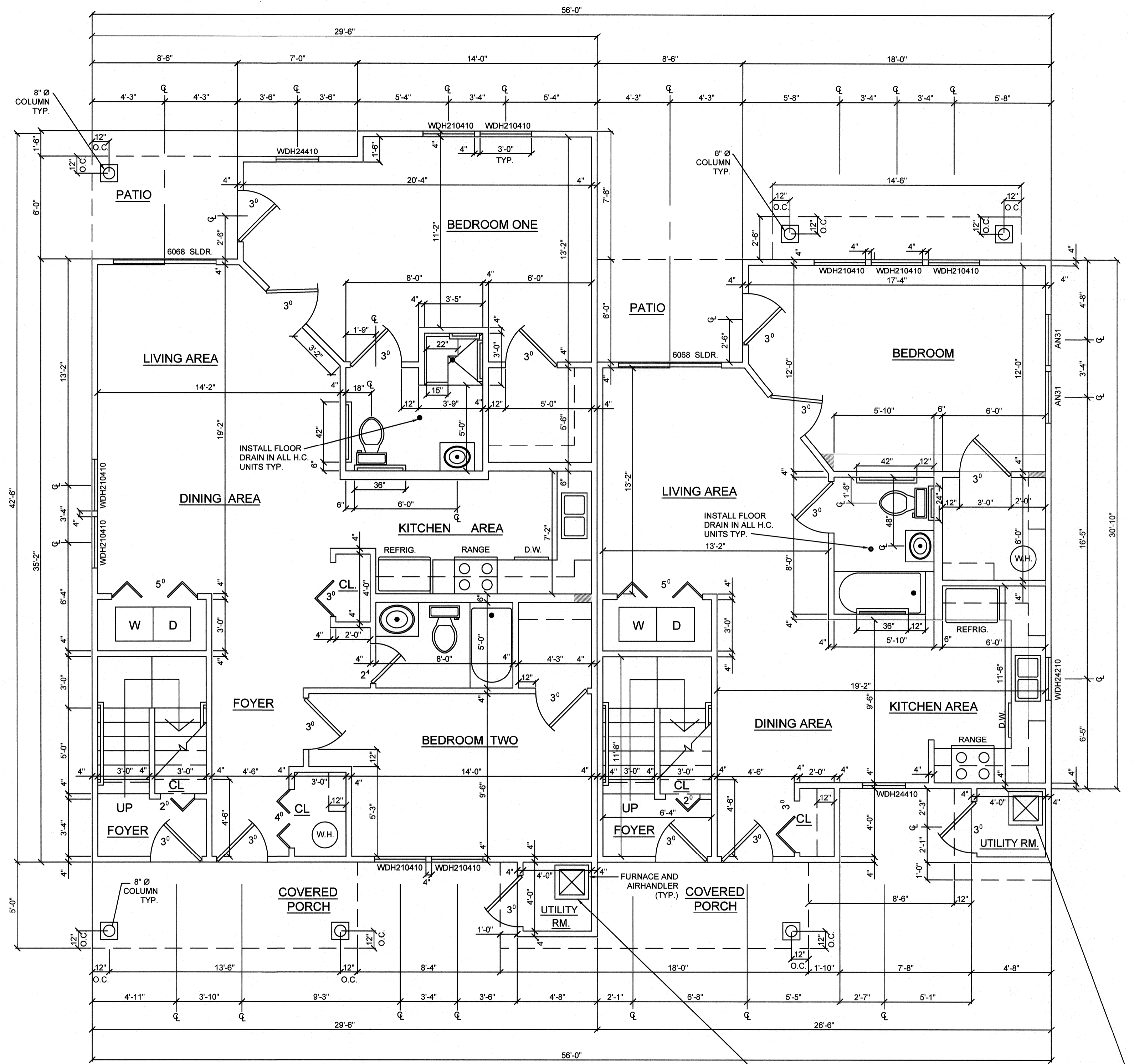
COLUMBIA TERRACE CONDOMINIUMS
 HUNTINGTON STATION, NEW YORK

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A-8	
CONTRACT NO.	CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT
1,119 S.F.
51 S.F. PATIO

ONE BEDROOM UNIT
756 S.F.
51 S.F. PATIO

REAR OF BUILDING PARKING LOT ENTRANCE

FOUR UNIT BUILDING
FIRST FLOOR H.C. PLAN
SCALE: 1/4" = 1'-0"

FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.

ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.

CLEARANCES AND ACCESSIBILITY NOTES:
...For servicing or cleaning, a 24" front clearance is required.
Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

- HDR HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL STEEL
- CL CLOSET
- REQ'D REQUIRED
- GYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
- FJ FLOOR JOIST
- CJ CEILING JOIST
- CT COLLAR TIES
- RM ROOM
- DR DINING ROOM
- BD BOARD
- FL FLOOR
- CD CEILING DIFFUSER
- RD ROOF DIFFUSER
- H/L/R HIGH LOW RETURN
- SW SIDE WALL SUPPLY
- WH WATER HEATER
- WD WASHER DRYER
- DW DISHWASHER

MSS(92 & 96) MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.

CSS(92 & 96) MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.
NC = For installation on non-combustible floors only. A combustible subbase must be used for installations on combustible flooring.

LEGEND

- SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- KITCHEN CABINET SOFFIT ONLY

NOTE: SEE HVAC FLOOR PLAN FOR SOFFIT SIZE THAT IS CONTAINING HVAC DUCTWORK.

REVISIONS	
3 / 18 / 2015	JVD
5 / 9 / 2015	JVD
5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

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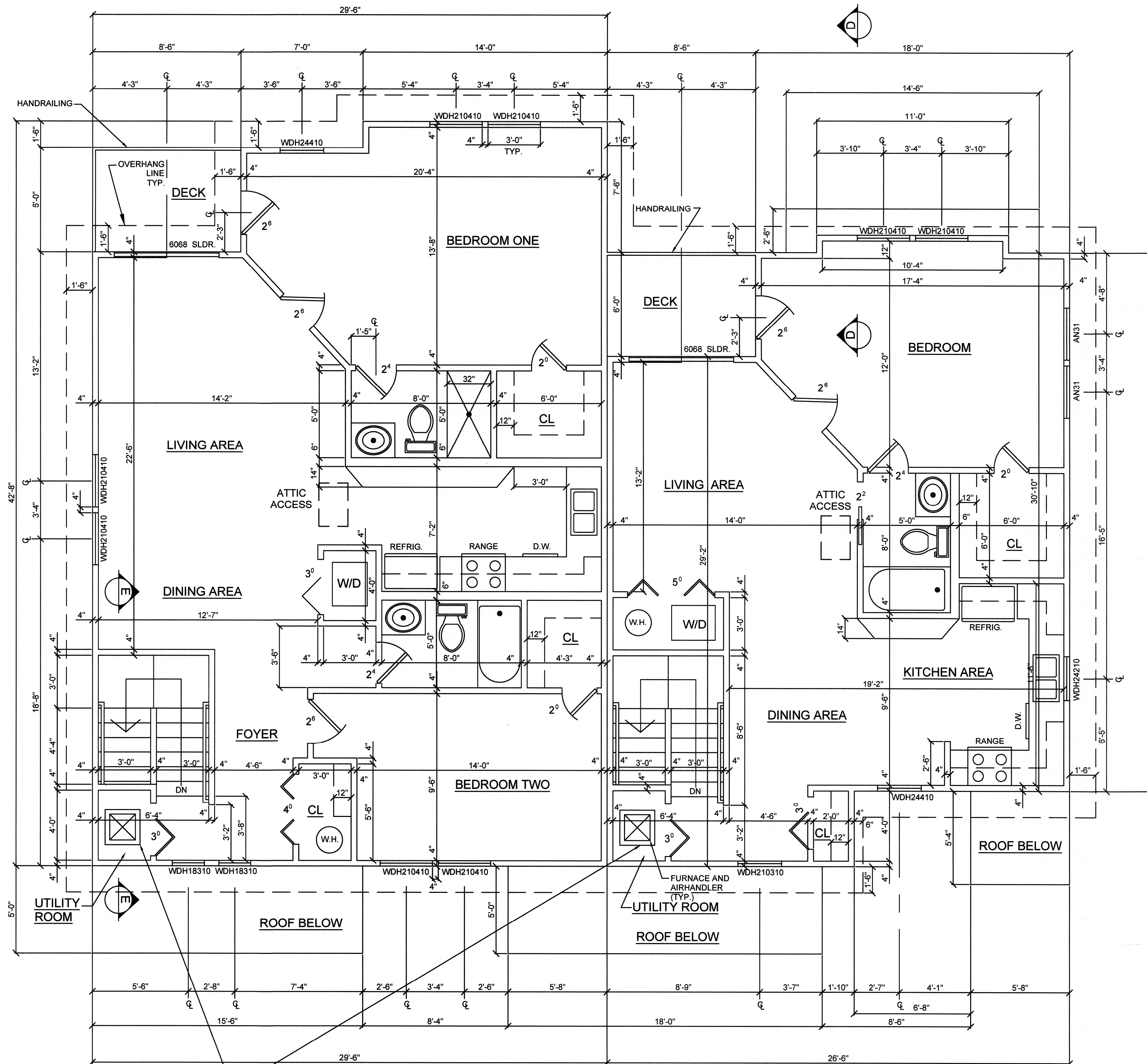


DESIGNED
J.V.D.
DRAWN
L.K.E.
DATE
6 / 3 / 2014
SCALE
AS NOTED
JOB NO.
COLUMBIA STREET

A-9
CONTRACT NO.
CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.

ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.

TWO BEDROOM UNIT
 1,185 S.F.
 51 S.F. DECK

ONE BEDROOM UNIT
 840 S.F.
 51 S.F. DECK

REAR OF BUILDING PARKING LOT ENTRANCE

FOUR UNIT BUILDING
SECOND FLOOR PLAN
 SCALE: 1/4"=1'-0"

- HDR. HEADER
- TYP. TYPICAL
- QC ON CENTER
- STL. STEEL
- CL CLOSET
- REQ'D REQUIRED
- CYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
- FJ FLOOR JOIST
- CJ CEILING JOIST
- CT COLLAR TIES
- RM ROOM
- DR DINING ROOM
- BD BOARD
- FL FLOOR
- CD CEILING DIFFUSER
- RD ROOF DIFFUSER
- HLR HIGH LOW RETURN
- SW SIDE WALL SUPPLY
- WH WATER HEATER
- WD WASHER DRYER
- DW DISHWASHER

CLEARANCES AND ACCESSIBILITY NOTES:
 ...For servicing or cleaning, a 24" front clearance is required.
 ...Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
 ...In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

*MSS[92 & 96] MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.

*CSS[92 & 96] MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

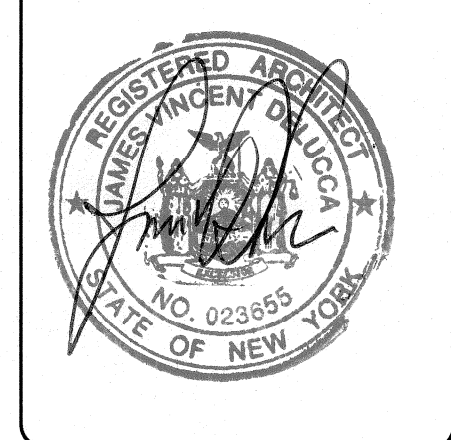
POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Counterflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.
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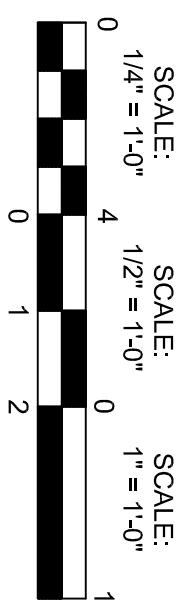
COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

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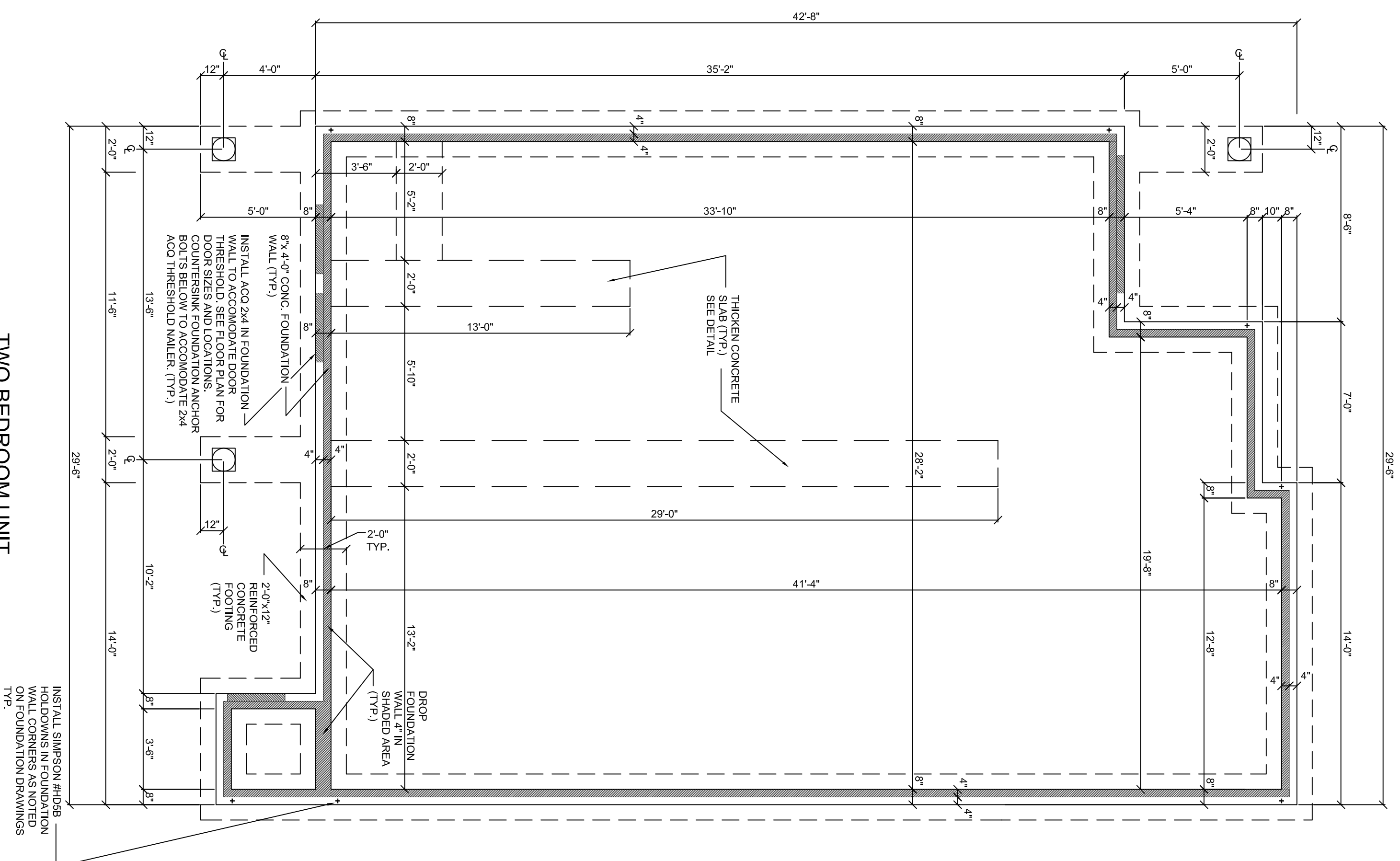


DESIGNED J.V.D.
 DRAWN L.K.E.
 DATE 6 / 3 / 2014
 SCALE AS NOTED
 JOB NO. COLUMBIA STREET

A-11
 CONTRACT NO. CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



REAR OF BUILDING PARKING LOT ENTRANCE

TWO UNIT BUILDING
FIRST FLOOR H.C. FOUNDATION PLAN
SCALE: 1/4"=1'-0"

REVISIONS	
3 / 18 / 2015	JVD
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5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

JAMES V. DE LUCCA, R.A.
12 LINDA LANE EAST
RIVERHEAD, N.Y. 11901
(631) 727-1611

DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
A-13	
CONTRACT NO.	CDA 2017-100

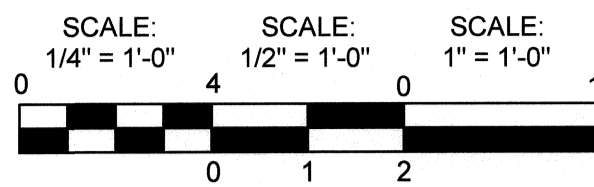
REVISIONS	
3 / 18 / 2015	JVD
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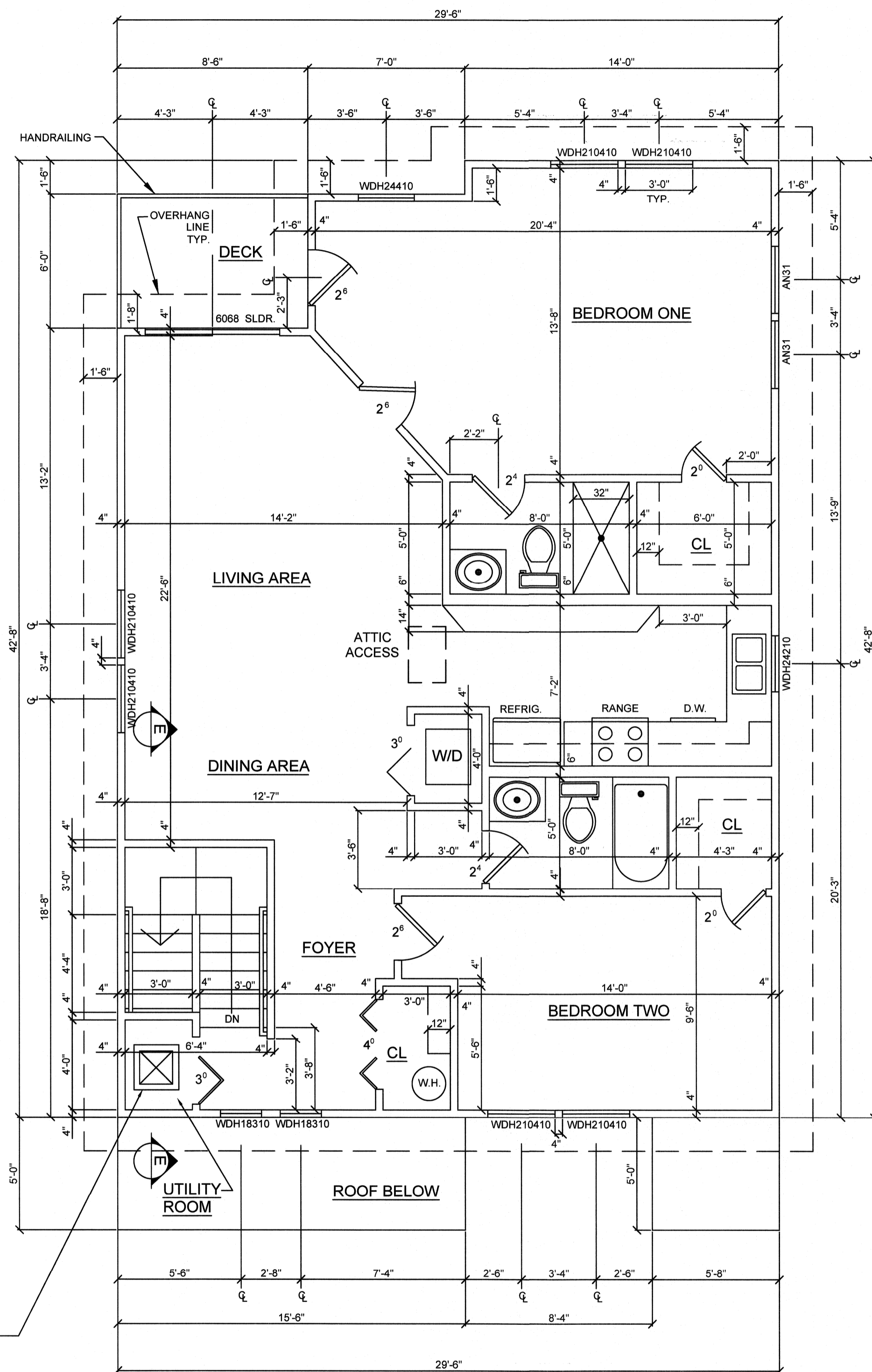
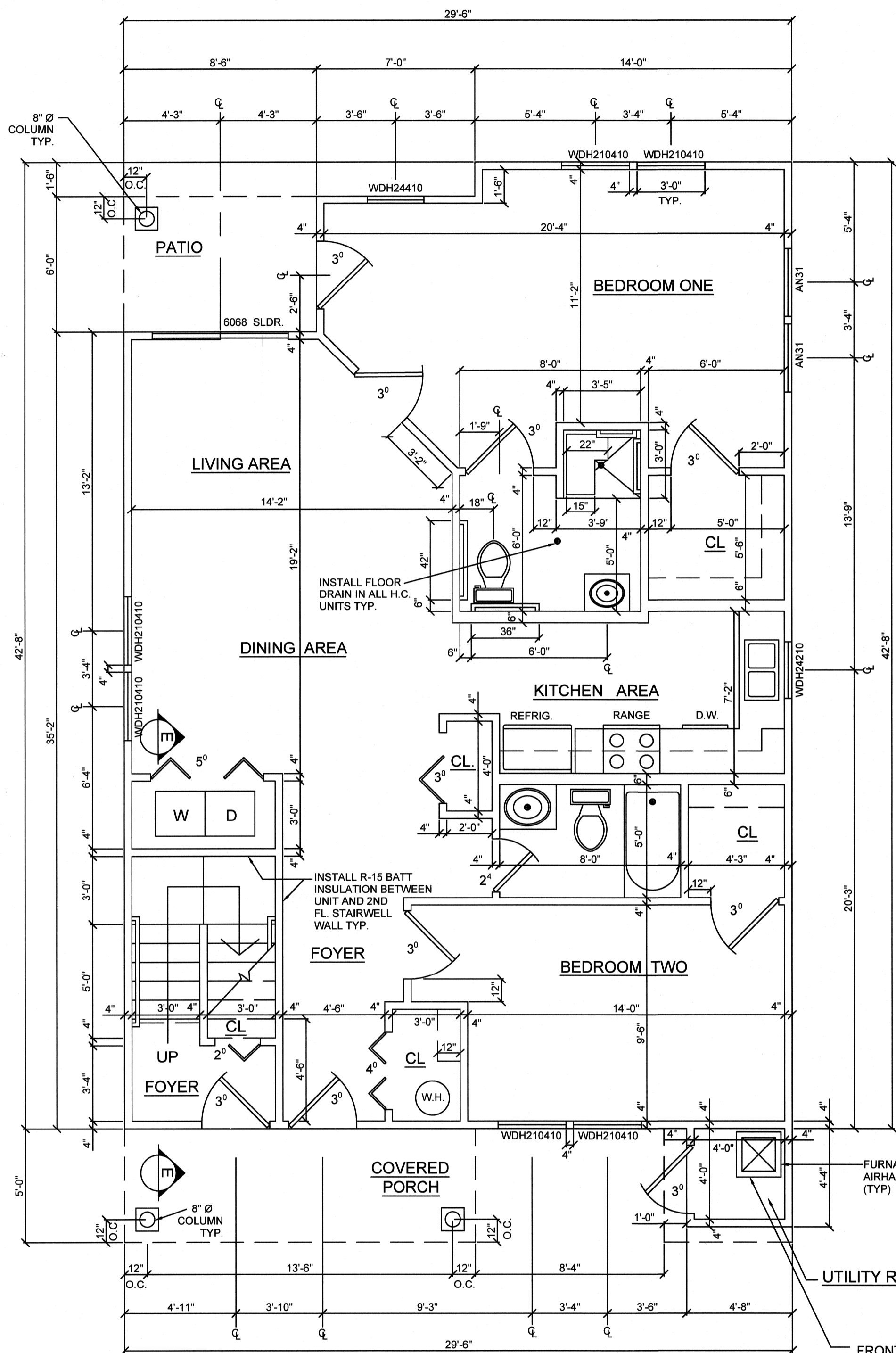


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JOB NO.	COLUMBIA STREET
A-14	
CONTRACT NO. CDA 2017-100	



FRONT OF BUILDING STREET ENTRANCE

FRONT OF BUILDING STREET ENTRANCE



REAR OF BUILDING PARKING LOT ENTRANCE

REAR OF BUILDING PARKING LOT ENTRANCE

TWO UNIT BUILDING
TWO BR. FIRST FLOOR H.C. PLAN
SCALE: 1/4" = 1'-0"
1,119 S.F.
51 S.F. PATIO

TWO UNIT BUILDING
TWO BEDROOM SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"
1185 S.F.
51 S.F. DECK

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL. STEEL
- CL CLOSET
- REQ'D REQUIRED
- GYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
- FJ FLOOR JOIST
- CJ CEILING JOIST
- CT COLLAR TIES
- RM ROOM
- DR DINING ROOM
- BD BOARD
- FL FLOOR
- CD CEILING DIFFUSER
- RD ROOF DIFFUSER
- HL/R HIGH LOW RETURN
- SW SIDE WALL SUPPLY
- WH WATER HEATER
- WD WASHER DRYER
- DW DISHWASHER

CLEARANCES AND ACCESSIBILITY NOTES:
 ...For servicing or cleaning, a 24" front clearance is required.
 ...Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed above.
 ...In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

"MSS[92 & 96]" MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.

"CSS[92 & 96]" MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Counterflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

C = If placed on combustible floor, floor MUST be wood only.
 NC = For installation on non-combustible floors only. A combustible subbase must be used for installations on combustible flooring.

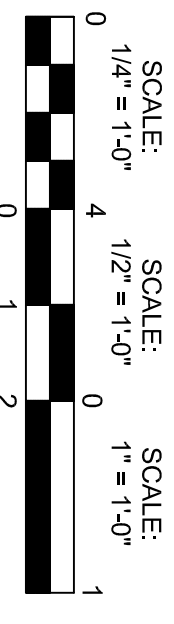
LEGEND

- SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- KITCHEN CABINET SOFFIT ONLY

NOTE: SEE HVAC FLOOR PLAN FOR SOFFIT SIZE THAT IS CONTAINING HVAC DUCTWORK.

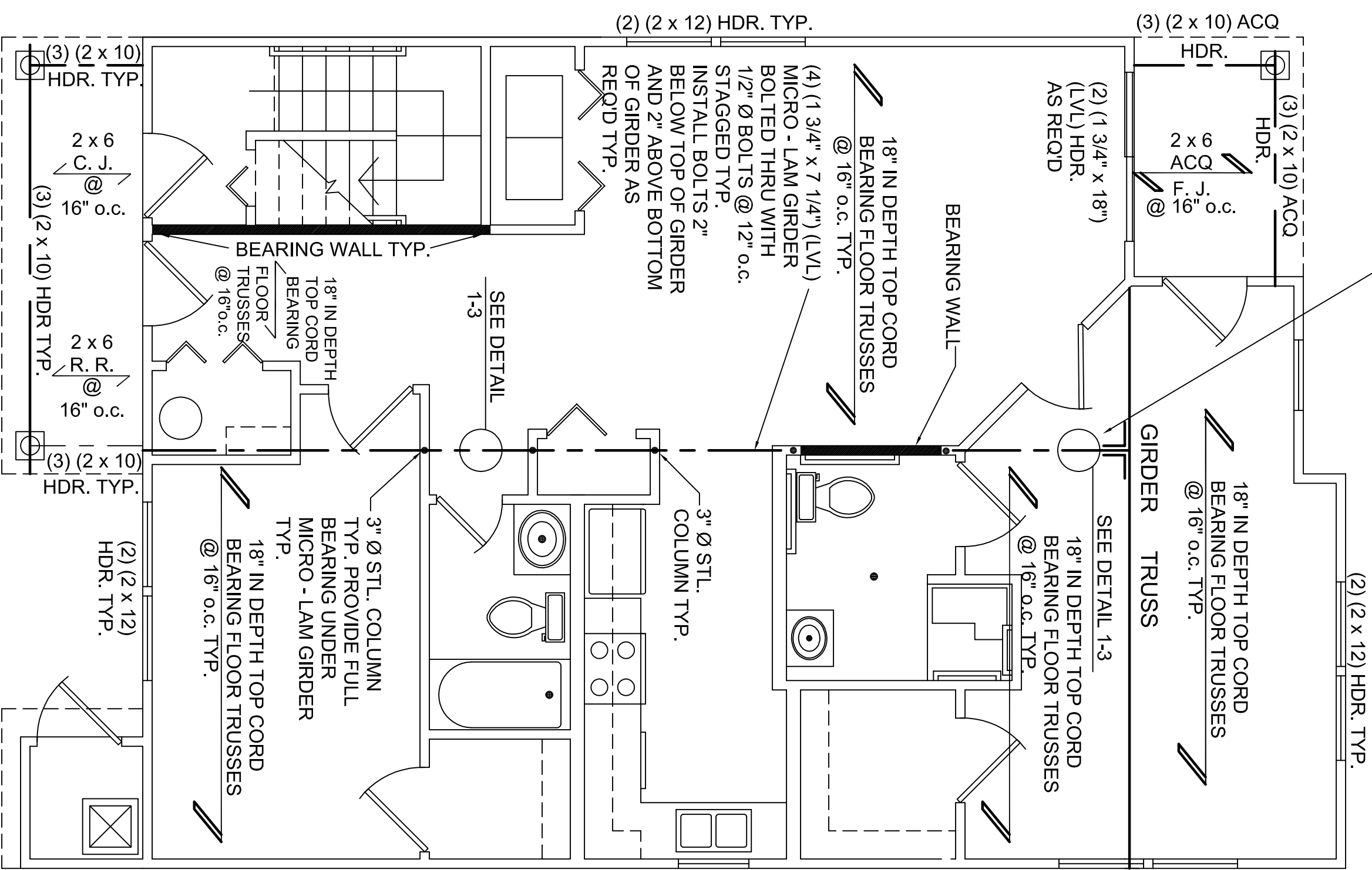
FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.

ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.



FRONT OF BUILDING STREET ENTRANCE

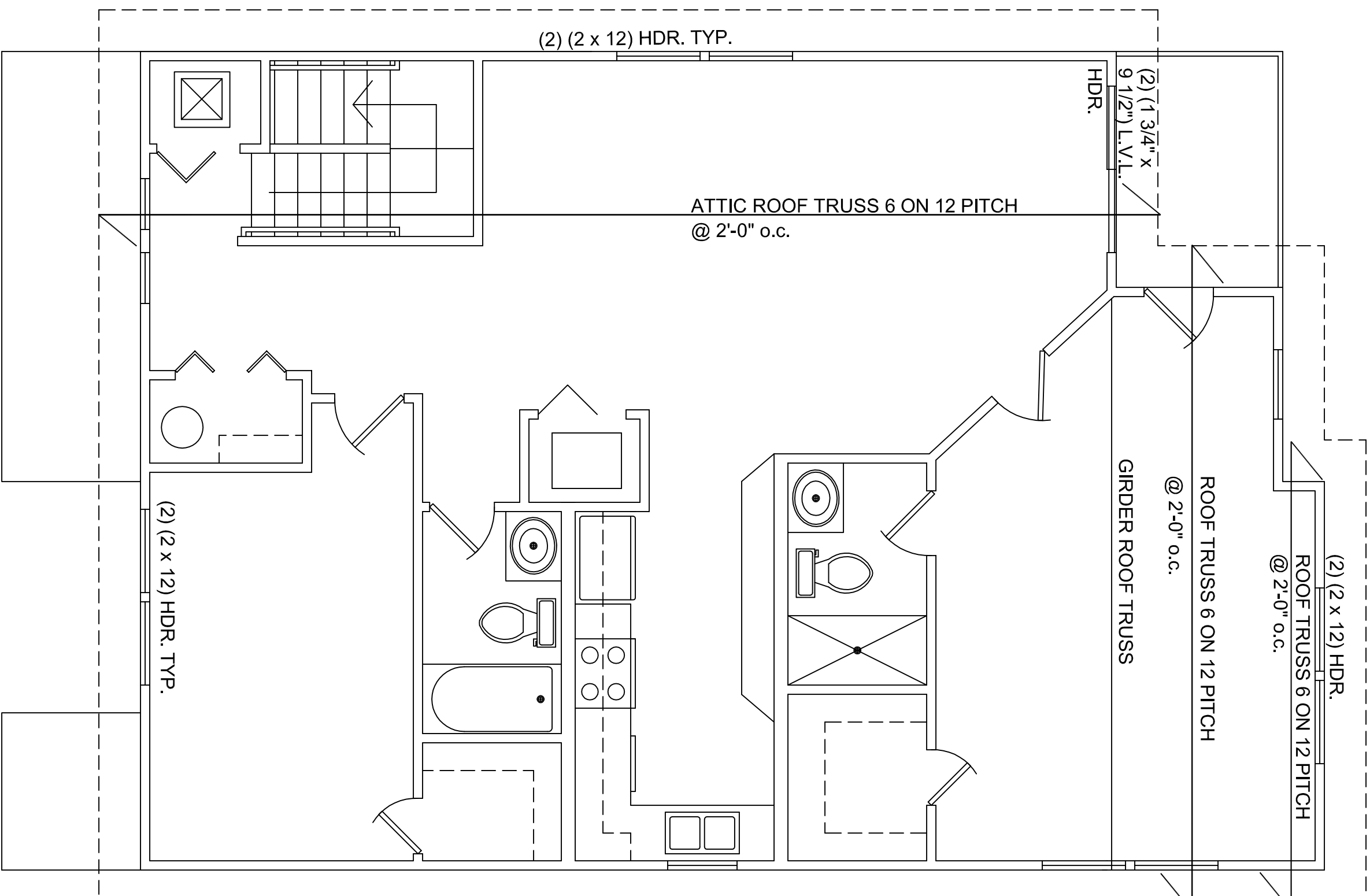
FLOOR TRUSS HANGERS ARE DESIGNED AND SUPPLIED BY TRUSS MANUFACTURER. DETAIL MUST BE PROVIDED BY MANUFACTURER FOR APPROVAL BY ARCHITECT AND BUILDING DEPARTMENT BEFORE INSTALLATION. TYP.



REAR OF BUILDING PARKING LOT ENTRANCE

TWO UNIT BUILDING
 TWO BEDROOM FIRST FLOOR H.C. STRUCTURAL PLAN
 SCALE: 1/4" = 1'-0"

FRONT OF BUILDING STREET ENTRANCE



REAR OF BUILDING PARKING LOT ENTRANCE

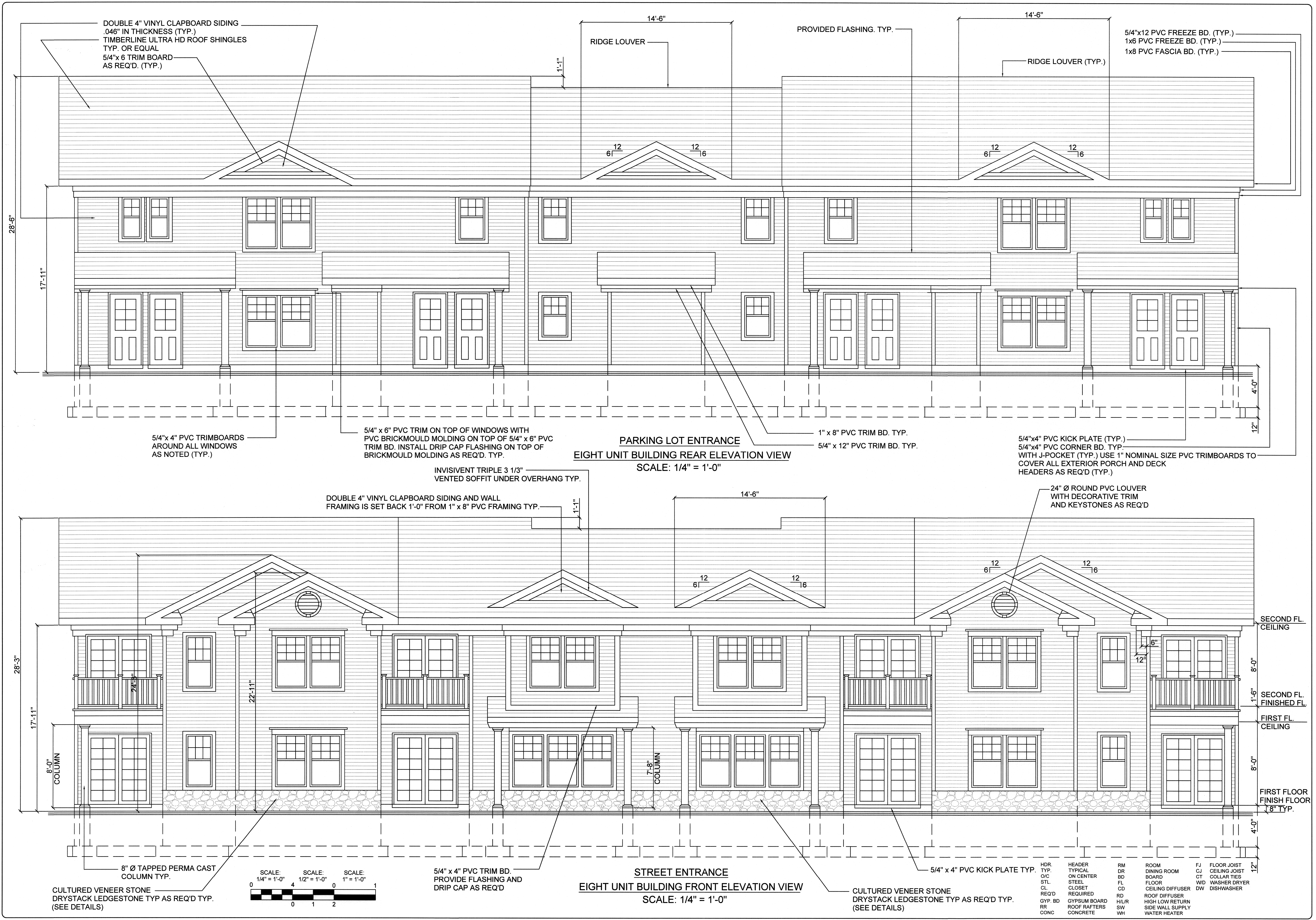
TWO UNIT BUILDING
 TWO BEDROOM SECOND FLOOR STRUCTURAL PLAN
 SCALE: 1/4" = 1'-0"

REVISIONS	
3 / 18 / 2015	JVD
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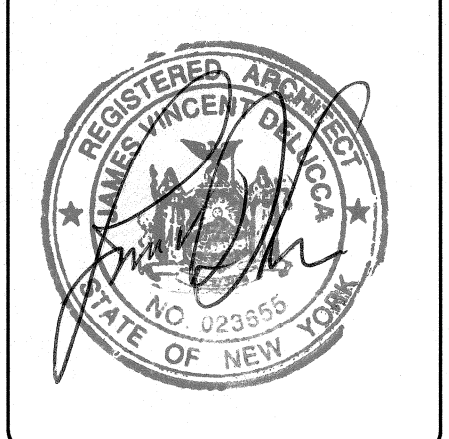
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A-15	
CONTRACT NO.	CDA 2017-100



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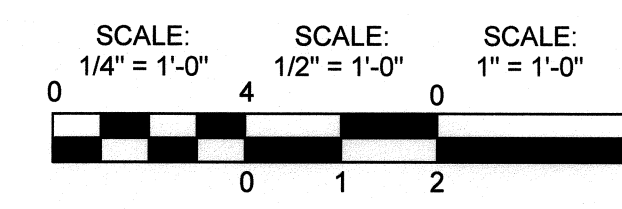
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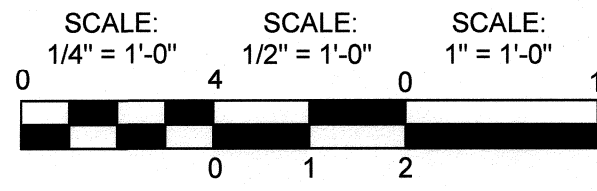


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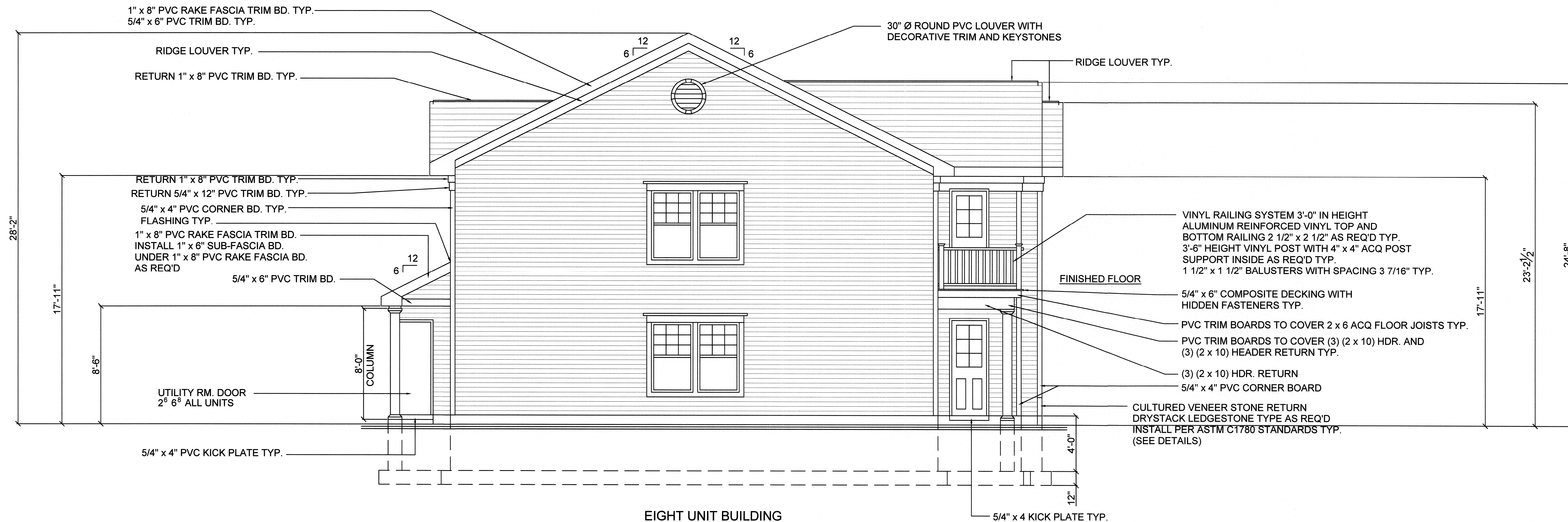
A-16
 CONTRACT NO.
 CDA 2017-100

HDR.	HEADER	RM	ROOM	FJ	FLOOR JOIST
TYP.	TYPICAL	DR	DINING ROOM	CJ	CEILING JOIST
O/C	ON CENTER	BD	BOARD	CT	COLLAR TIES
STL	STEEL	FL	FLOOR	WD	WASHER DRYER
CL	CLOSET	CD	CEILING DIFFUSER	DW	DISHWASHER
REQ'D	REQUIRED	RD	ROOF DIFFUSER		
GYP. BD	GYP. BOARD	HLR	HIGH LOW RETURN		
RR	ROOF RAFTERS	SW	SIDE WALL SUPPLY		
CONC	CONCRETE	WH	WATER HEATER		





EIGHT UNIT BUILDING
RIGHT SIDE ELEVATION VIEW
SCALE: 1/4" = 1'-0"



EIGHT UNIT BUILDING
LEFT SIDE ELEVATION VIEW
SCALE: 1/4" = 1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL. STEEL
- CL. CLOSET
- REQ'D REQUIRED
- GYP. BD. GYPSUM BOARD
- RR. ROOF RAFTERS
- CONC. CONCRETE
- FJ. FLOOR JOIST
- CJ. CEILING JOIST
- CT. COLLAR TIES
- RM. ROOM
- DR. DINING ROOM
- BD. BOARD
- FL. FLOOR
- CD. CEILING DIFFUSER
- RD. ROOF DIFFUSER
- HL/R. HIGH LOW RETURN
- SW. SIDE WALL SUPPLY
- WH. WATER HEATER
- WD. WASHER DRYER
- DW. DISHWASHER

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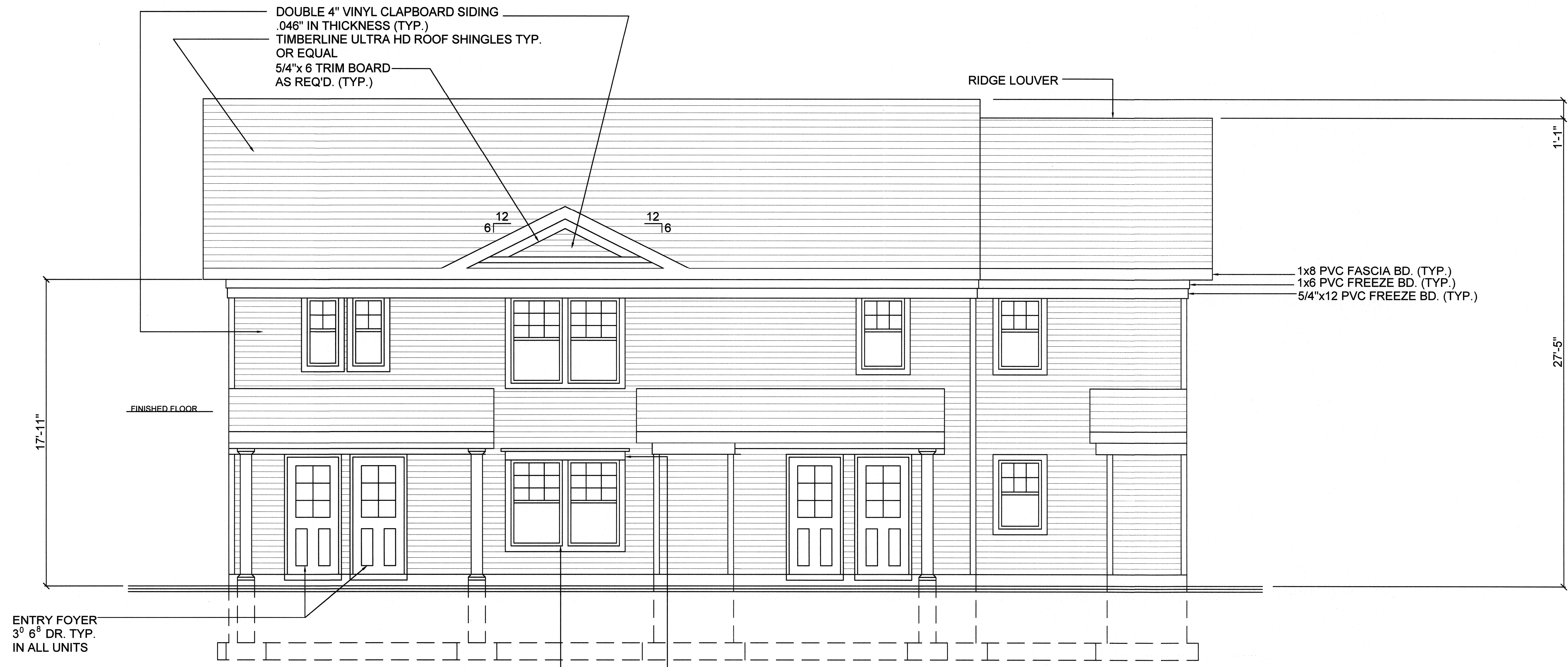
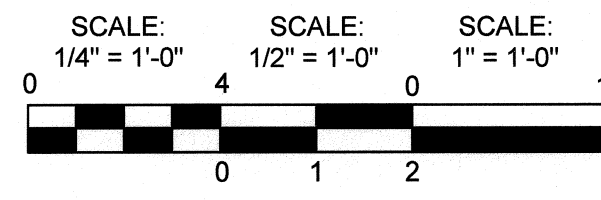
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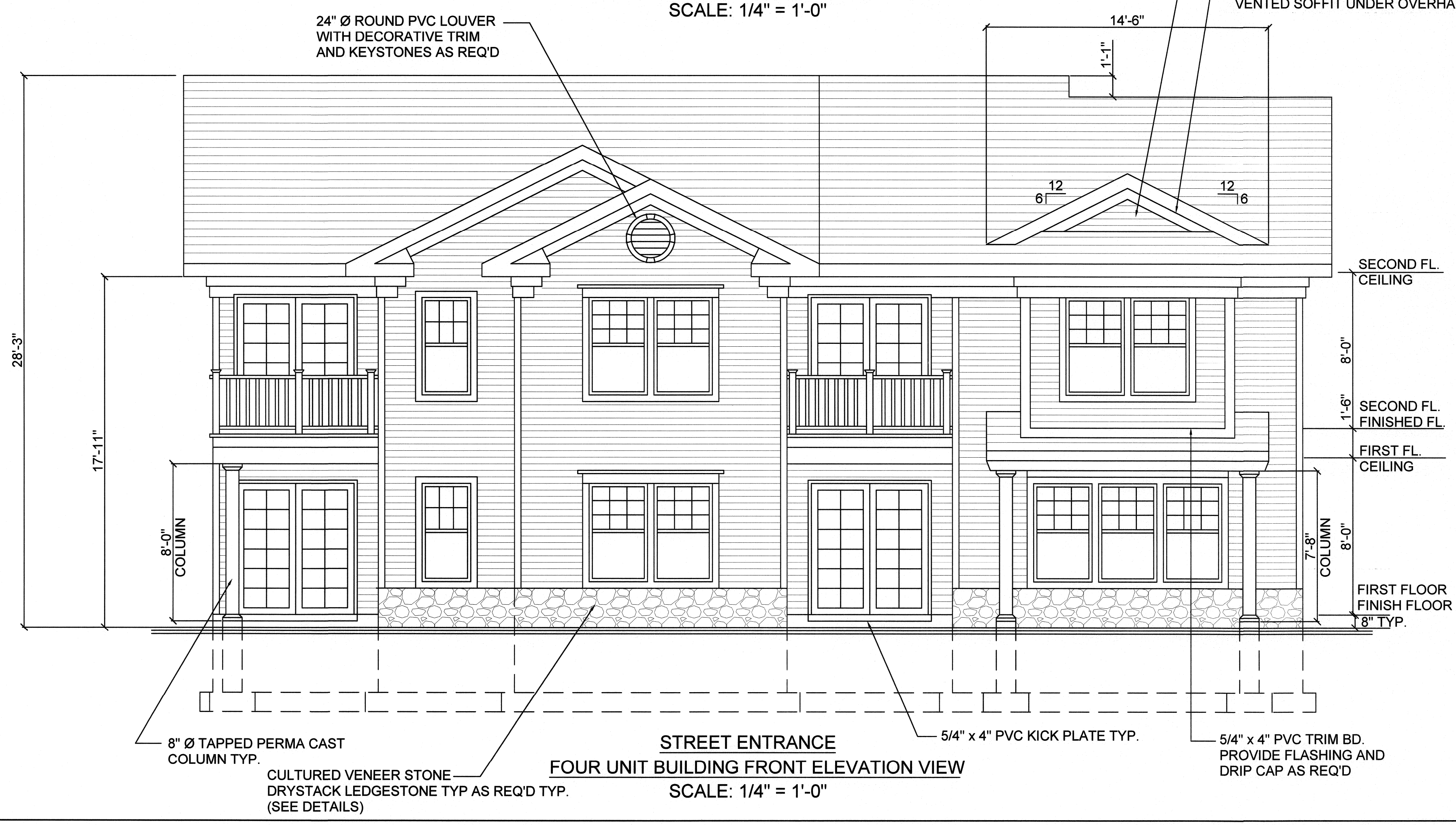


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DRAWN L.K.E.
DATE 6 / 3 / 2014
SCALE AS NOTED
JOB NO. COLUMBIA STREET

A-17
CONTRACT NO. CDA 2017-100



**PARKING LOT ENTRANCE
FOUR UNIT BUILDING REAR ELEVATION VIEW**
SCALE: 1/4" = 1'-0"



**STREET ENTRANCE
FOUR UNIT BUILDING FRONT ELEVATION VIEW**
SCALE: 1/4" = 1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL. STEEL
- CL. CLOSET
- REQ'D. REQUIRED
- GYP. BD. GYPSUM BOARD
- RR. ROOF RAFTERS
- CONC. CONCRETE
- FJ. FLOOR JOIST
- CJ. CEILING JOIST
- RM. ROOM
- DR. DINING ROOM
- BD. BOARD
- FL. FLOOR
- CD. CEILING DIFFUSER
- RD. ROOF DIFFUSER
- H/L/R. HIGH LOW RETURN
- S/W. SIDE WALL SUPPLY
- WH. WATER HEATER
- WD. WASHER DRYER
- DW. DISHWASHER

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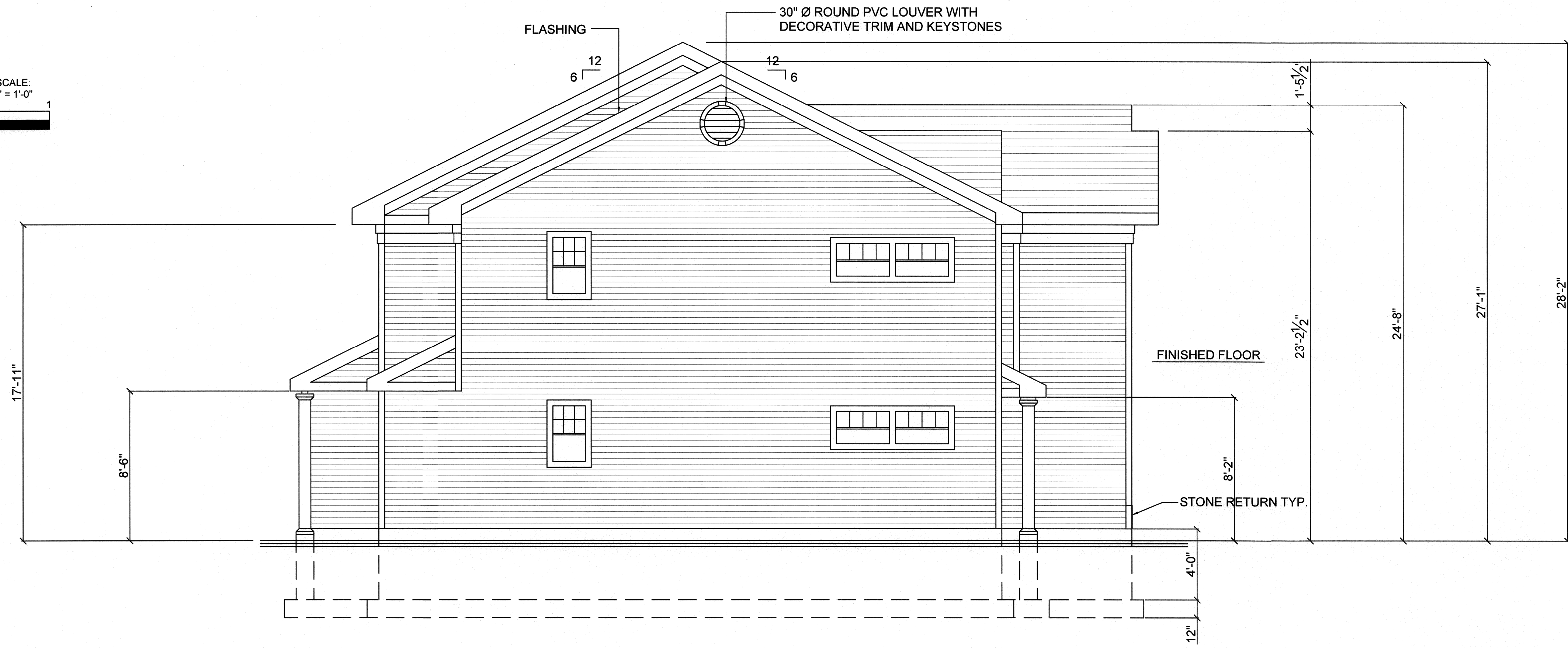
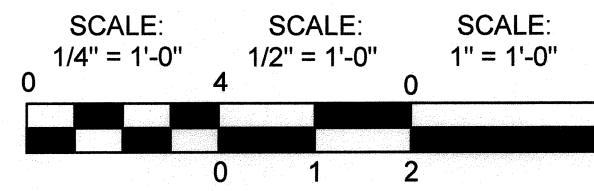
**COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK**

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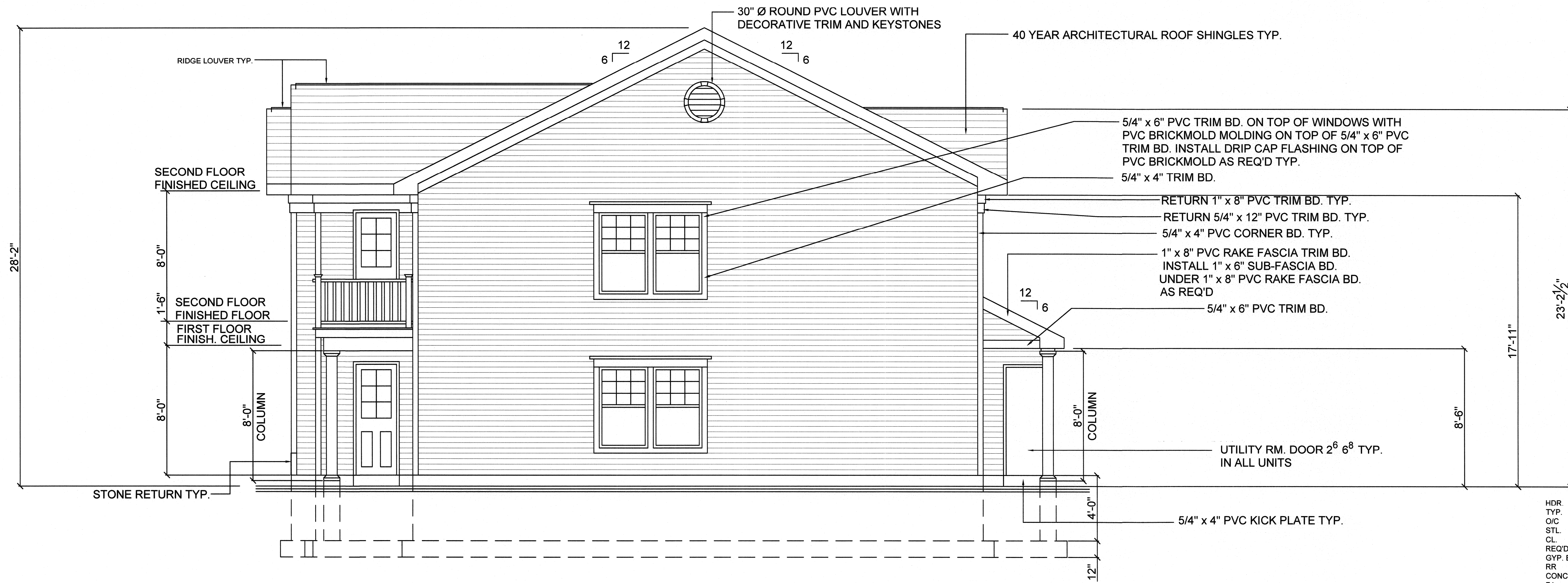


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A-18
CONTRACT NO.
CDA 2017-100



FOUR UNIT BUILDING
LEFT SIDE ELEVATION VIEW
ONE BEDROOM H.C. UNIT
SCALE: 1/4" = 1'-0"



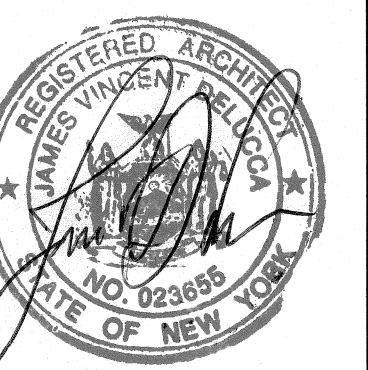
FOUR UNIT BUILDING
RIGHT SIDE ELEVATION VIEW
TWO BEDROOM H.C. UNIT
SCALE: 1/4" = 1'-0"

- | | |
|---------|------------------|
| HDR | HEADER |
| TYP | TYPICAL |
| O/C | ON CENTER |
| STL | STEEL |
| CL | CLOSEST |
| REQD | REQUIRED |
| GYP. BD | GYPSUM BOARD |
| RR | ROOF RAFTERS |
| CONC | CONCRETE |
| FJ | FLOOR JOIST |
| CJ | CEILING JOIST |
| CT | COLLAR TIES |
| RM | ROOM |
| DR | DINING ROOM |
| BD | BOARD |
| FL | FLOOR |
| CD | CEILING DIFFUSER |
| RD | ROOF DIFFUSER |
| H/L/R | HIGH LOW RETURN |
| SW | SIDE WALL SUPPLY |
| WH | WATER HEATER |
| WD | WASHER DRYER |
| DW | DISHWASHER |

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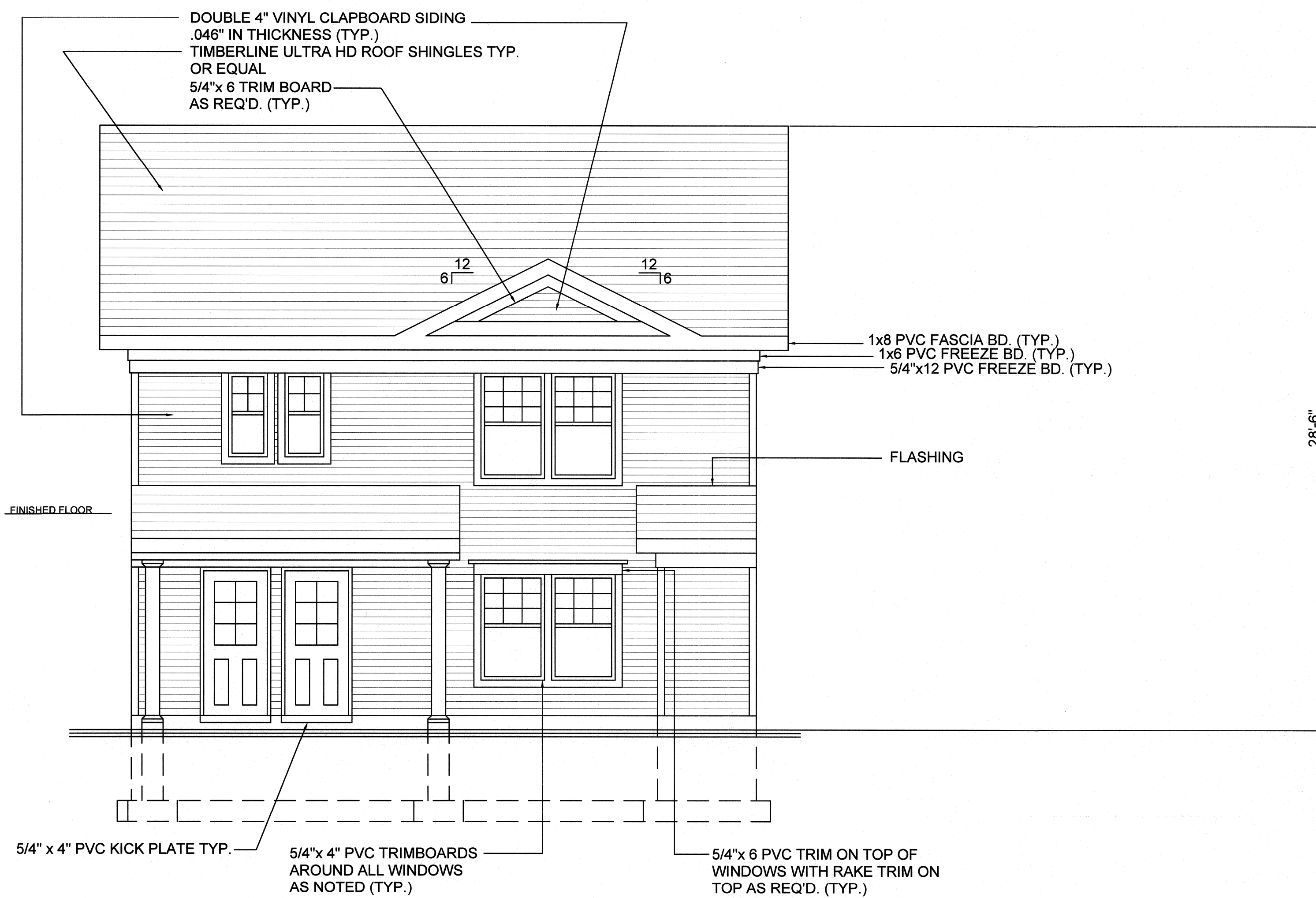
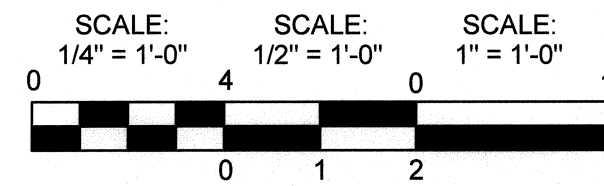
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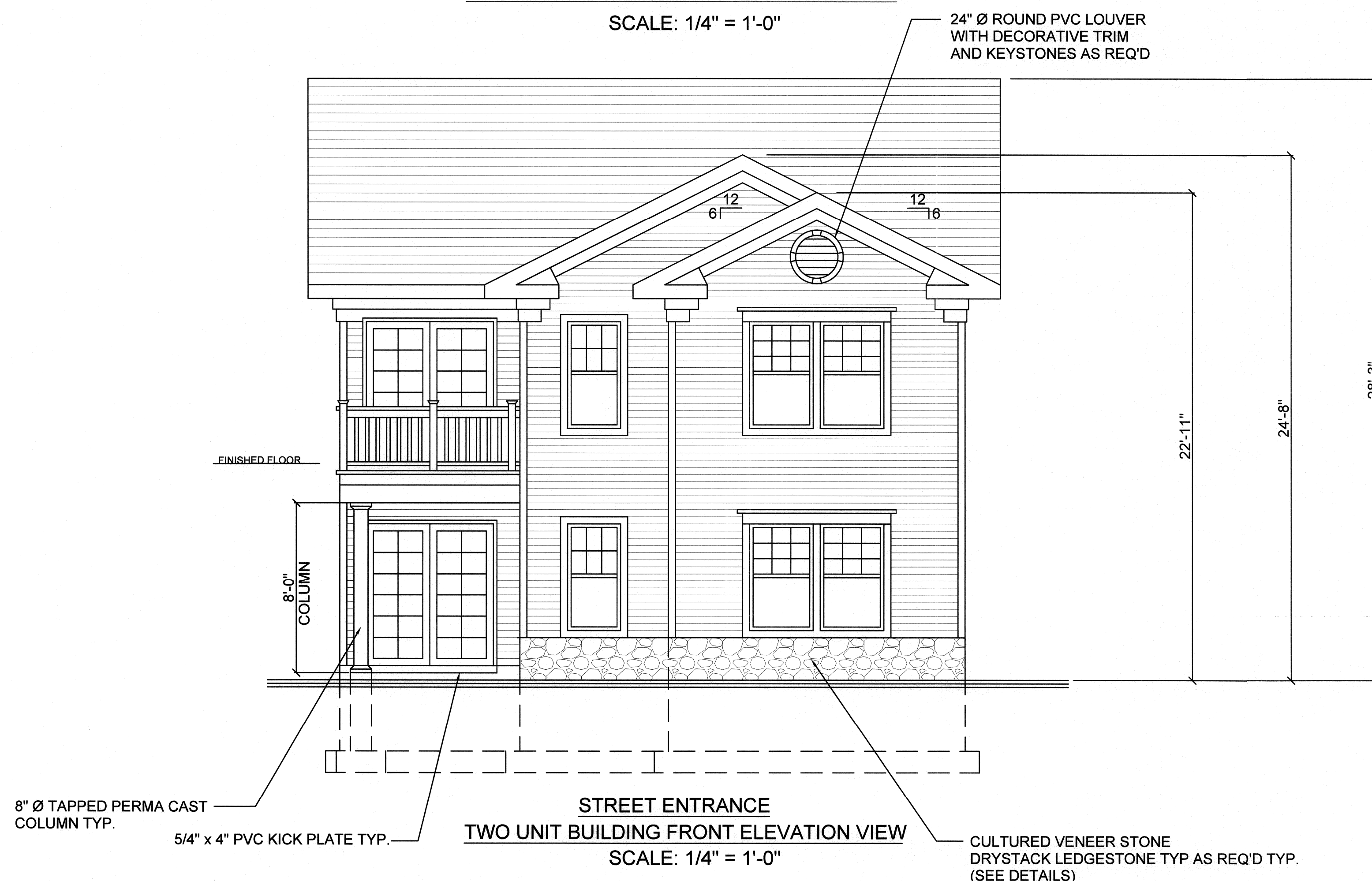
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A-19
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CDA 2017-100



**PARKING LOT ENTRANCE
TWO UNIT BUILDING REAR ELEVATION VIEW**

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



**STREET ENTRANCE
TWO UNIT BUILDING FRONT ELEVATION VIEW**

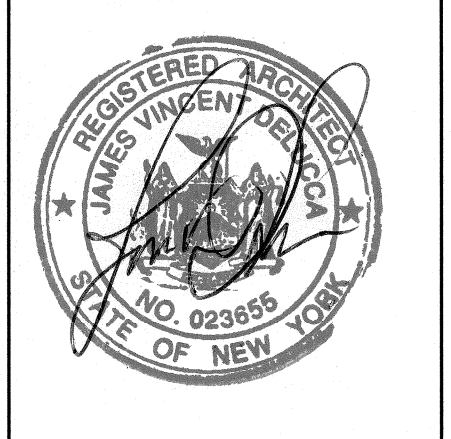
SCALE: 1/4" = 1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL STEEL
- CL CLOSET
- REQ'D REQUIRED
- GYP. BD GYPSUM BOARD
- RR ROOF RAFTERS
- CONC CONCRETE
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- CT COLLAR TIES
- RM ROOM
- DR DINING ROOM
- BD BOARD
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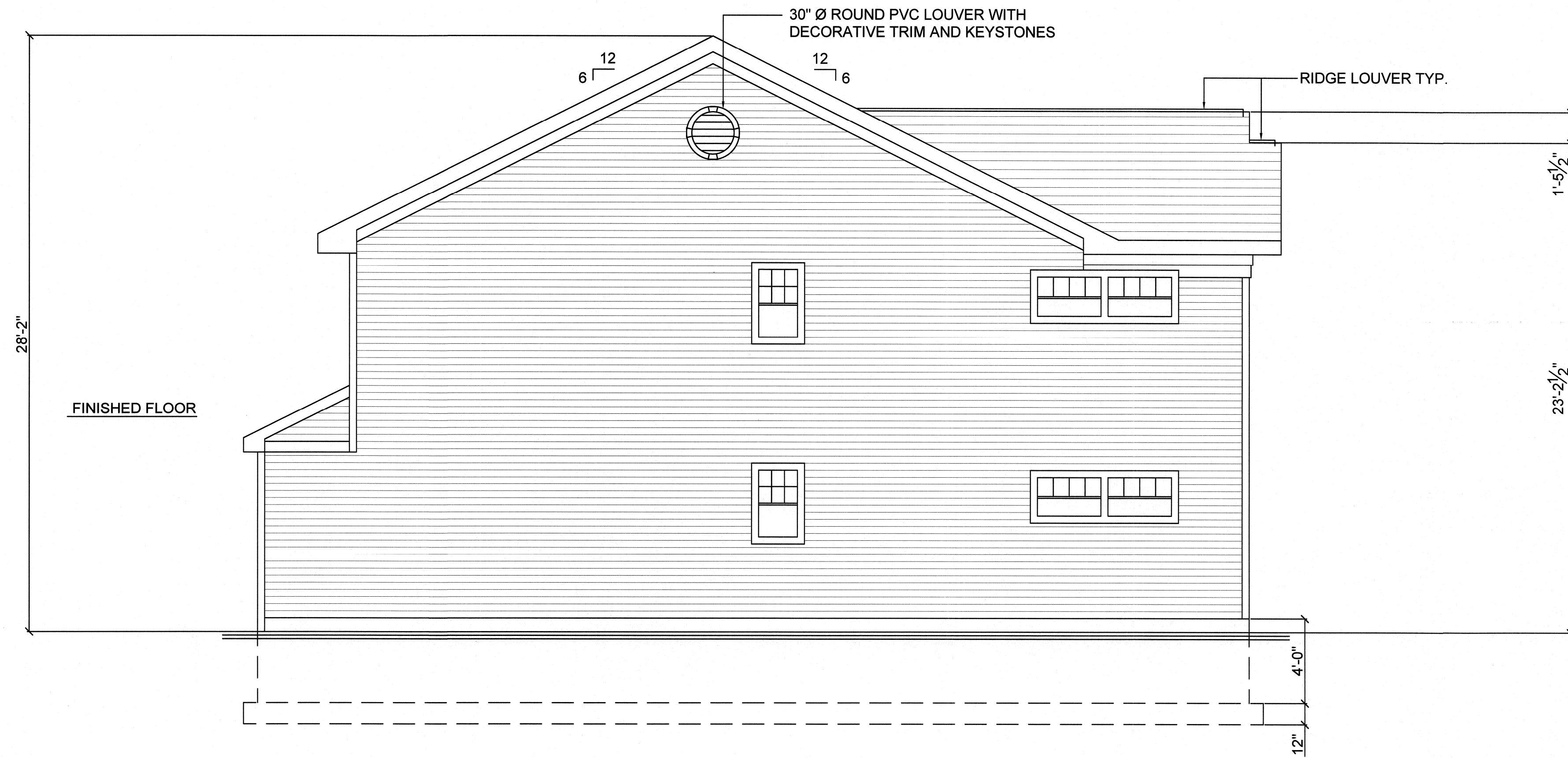
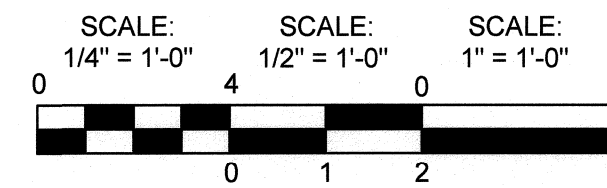
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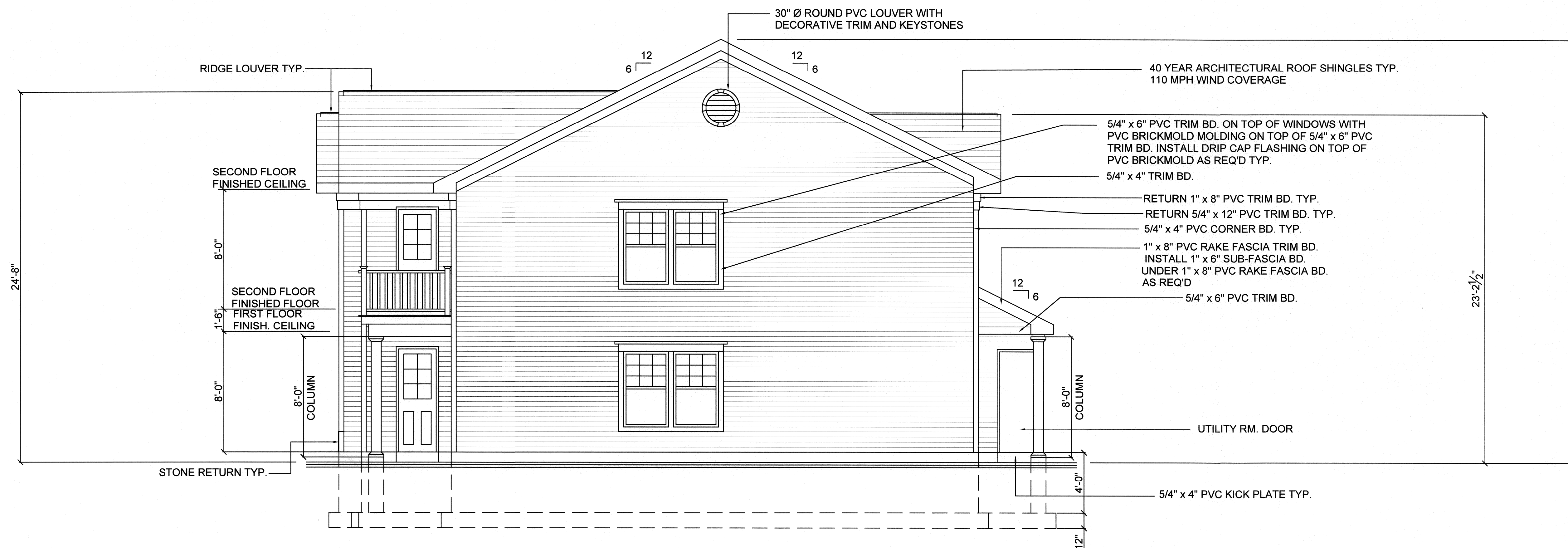


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TWO UNIT BUILDING
LEFT SIDE ELEVATION VIEW
TWO BEDROOM SINGLE H.C. UNIT
SCALE: 1/4" = 1'-0"



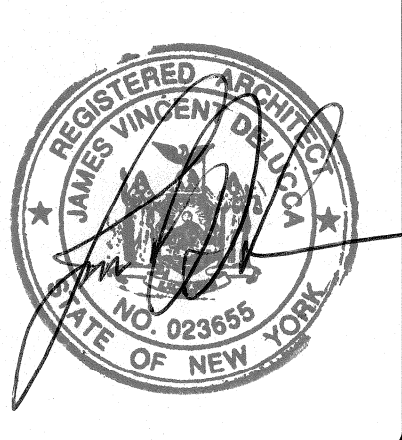
TWO UNIT BUILDING
RIGHT SIDE ELEVATION VIEW
TWO BEDROOM SINGLE H.C. UNIT
SCALE: 1/4" = 1'-0"

- HDR. HEADER
- TYP. TYPICAL
- O/C ON CENTER
- STL. STEEL
- CL. CLOSET
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- GYP. BD GYPSUM BOARD
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- H/LR HIGH LOW RETURN
- SW SIDE WALL SUPPLY
- WH WATER HEATER
- WD WASHER DRYER
- DW DISHWASHER

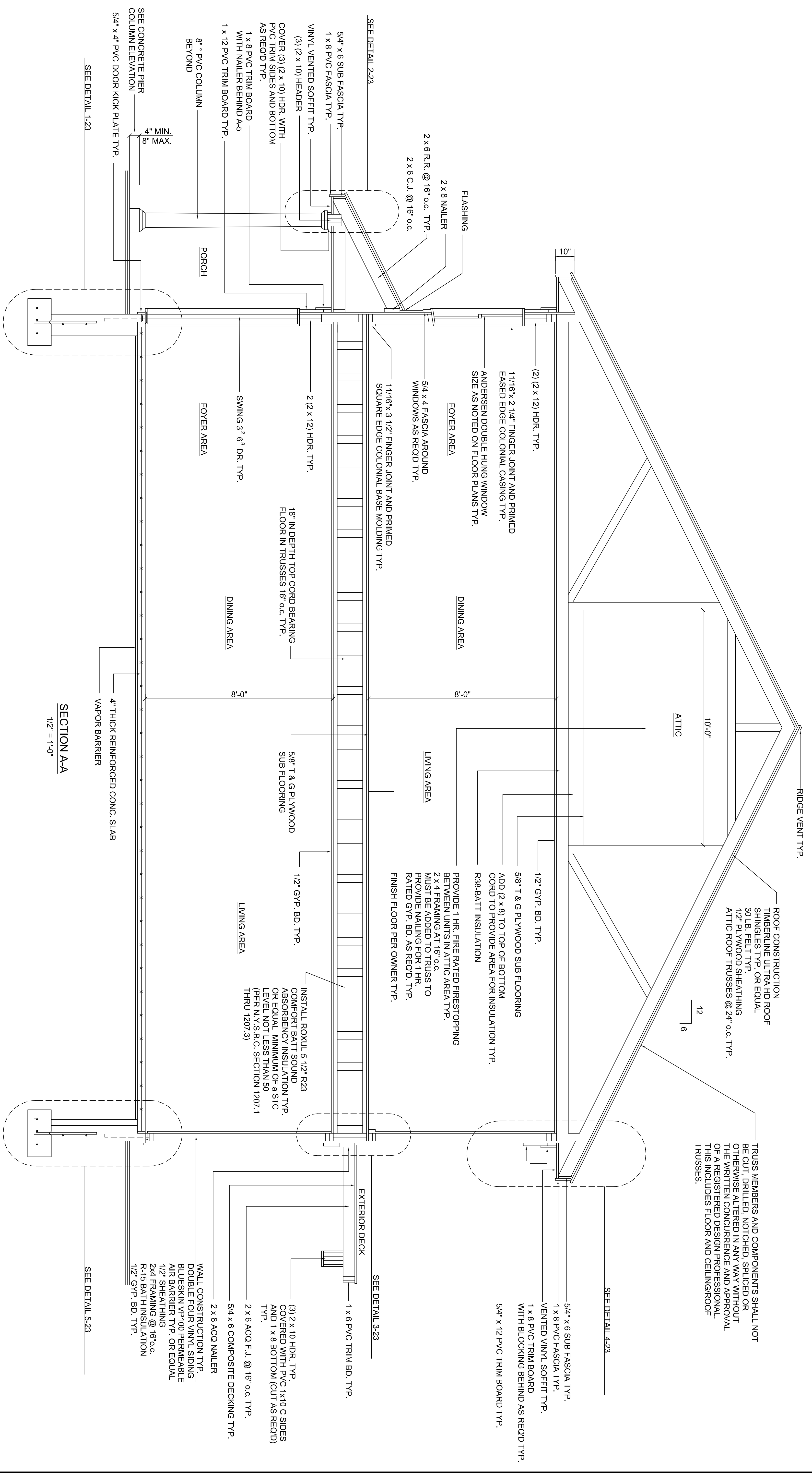
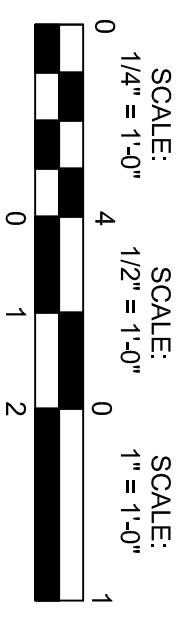
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SECTION A-A
1/2" = 1'-0"

CONCRETE PIER COLUMN ELEVATION.
THE TOP OF THE CONCRETE COLUMN PIERS SHALL BE RAISED FROM THE 4" MINIMUM AS INDICATED, TO 8" ABOVE GRADE, APPROXIMATELY FIRST FLOOR FINISHED ELEVATION, TO ACCOMMODATE THE RAISED HANDICAPPED ENTRANCE ELEVATION OF THE PORCH AND PATIO CONCRETE SIDEWALKS AND SLAB. IF REQUIRED IN ALL UNITS, ALSO REDUCE COLUMN LENGTH FROM 8'-0" TO 7'-8" AS REQUIRED. (APPROVAL OF COLUMN LENGTHS AND PIER ELEVATION MUST BE APPROVED BY ARCHITECT OF RECORD)

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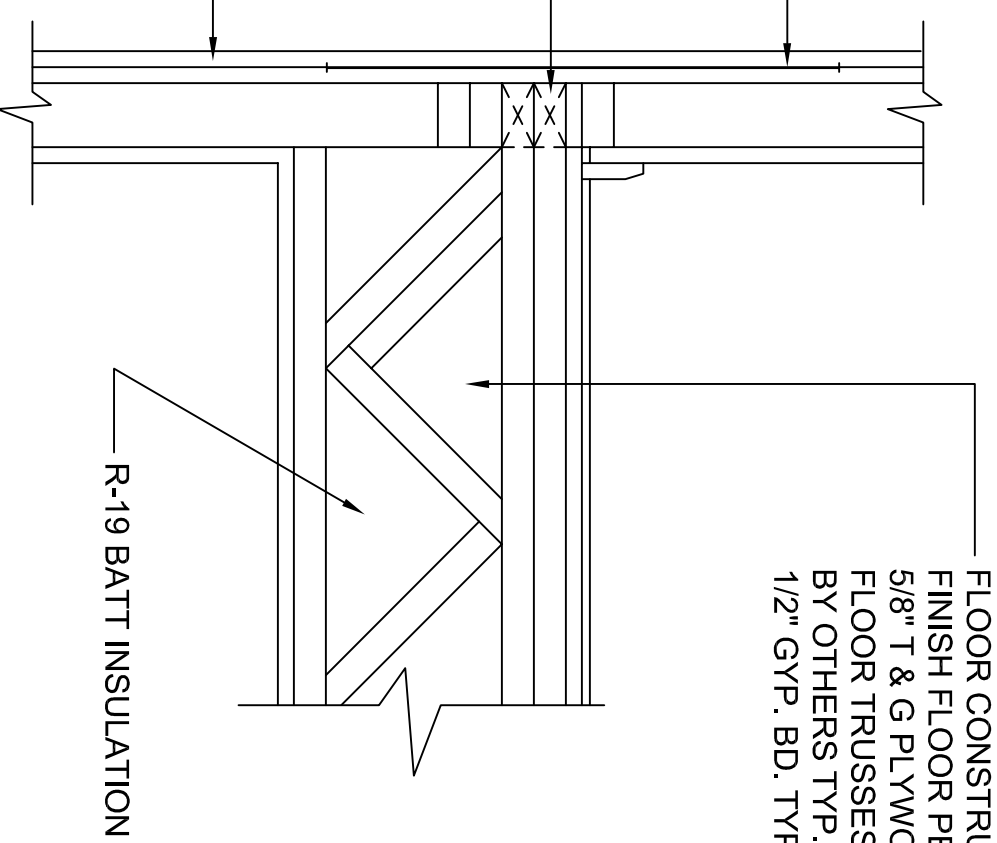
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INSTALL SIMPSON #MS1A49
 UPLIFT STRIP ON ALL STUDS
 OVER SHEATHING FROM FIRST
 FLOOR STUD TO SECOND FL. STUD. TYP.
 FASTENERS:
 (3/2) - 100 x 1 1/2"
 INSTALL 2 x 4 FIRE STOP BLOCKING
 ON UNIT ADJOINING UNIT WALLS
 BETWEEN FLOOR TRUSSES

FLOOR CONSTRUCTION TYP.
 FINISH FLOOR PER OWNER TYP.
 5/8" T & G PLYWOOD SUB-FLOORING TYP.
 FLOOR TRUSSES @ 16" o.c. DESIGN
 BY OTHERS TYP.
 1/2" GYP. BD. TYP.

R-19 BATT INSULATION

WALL CONSTRUCTION TYP. —
 DOUBLE FOUR VINYL SIDING TYP.
 BUESKIN VP100 PERMEABLE
 AIR BARRIER TYP. OR EQUAL
 1/2" PLYWOOD SHEATHING
 2 x 4 FRAMING @ 16" o.c.
 R-15 BATT INSULATION
 1/2" GYP. BD. TYP.

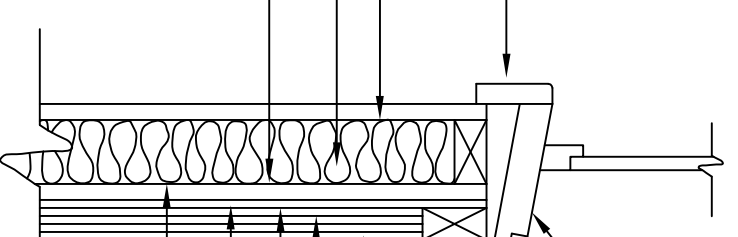


DETAIL 1-24
 SCALE: 1" = 1'-0"

INTERIOR WINDOW TRIM TYP. —

1/2" GYPSUM BOARD TYP. —
 R-15 BATT INSULATION TYP. —
 2 x 4 FRAMING 16" o.c. TYP. —

WINDOW JAMB TYP. —
 5/4" x 4" PVC TRIM BOARD TYP. —
 DRIP CAP OR SEALANT AS RECD TYP. —
 STONE VENEER TYP. —
 MORTAR SETTING BED TYP. —
 SCRATCH COAT TYP. —
 2.5 LB. GALVANIZED METAL LATH TYP. —
 (2) LAYERS OF WEATHER RESISTIVE BARRIER (WRB) TYP. —
 1/2" PLY. WD. SHEATHING TYP. —
 MORTAR JOINT AS RECD TYP. —

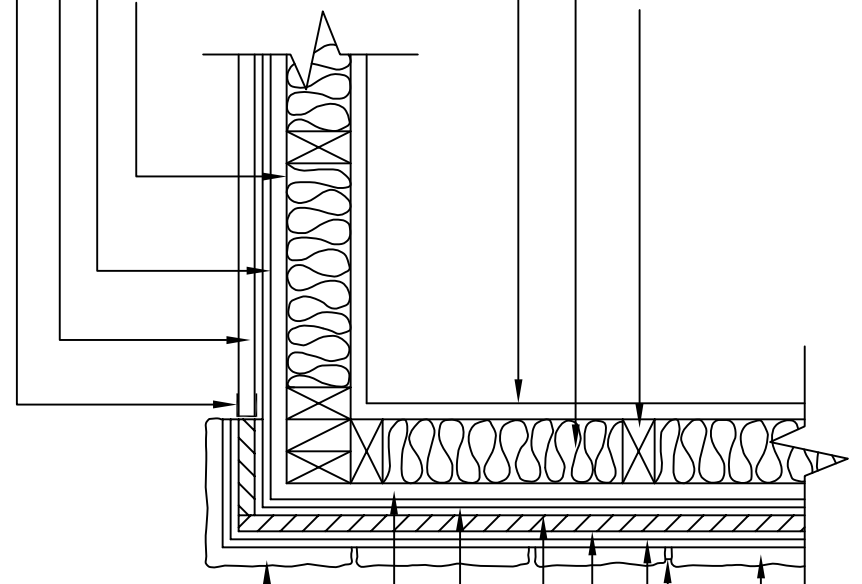


WILL SILL VENEER STONE DETAIL
 SCALE: 1" = 1'-0"

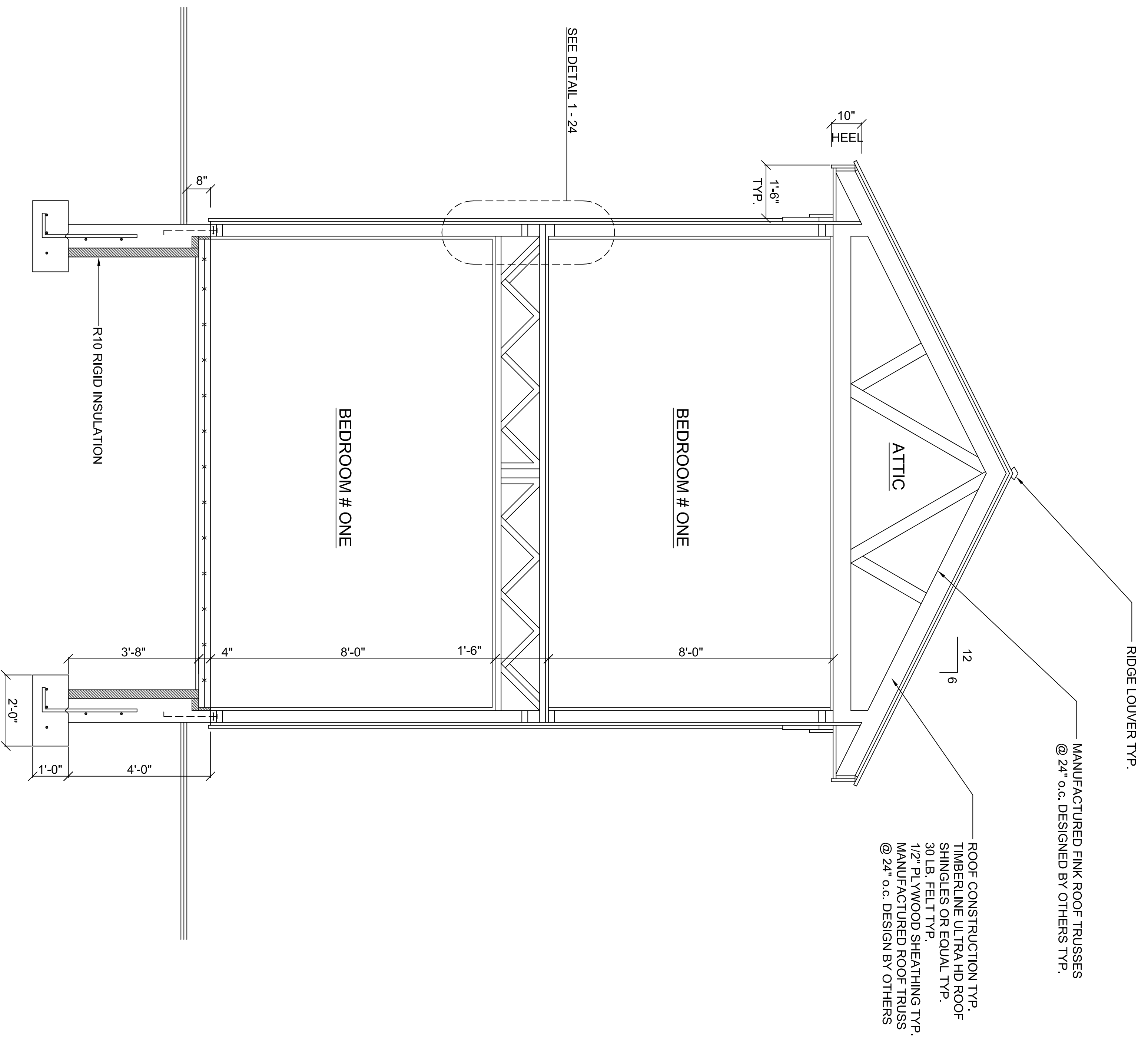
2 x 4 FRAMING @ 16" o.c. TYP. —
 R-15 BATT INSULATION TYP. —
 1/2" GYP. BOARD TYP. —

STONE VENEER AS RECD TYP. —
 MORTAR JOINT AS RECD TYP. —
 MORTAR SETTING BED TYP. —
 SCRATCH COAT —
 2.5 LB. GALVANIZED METAL LATH —
 TWO LAYERS OF WATER RESISTIVE BARRIER (WRB) —
 1/2" PLY. WD. SHEATHING —
 CORNER VENEER STONE AS RECD TYP. —

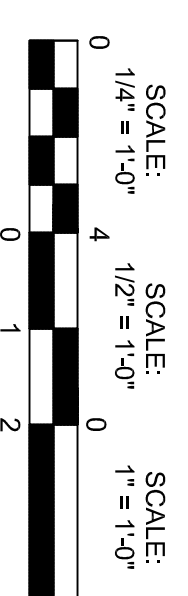
1/2" PLY. WD. SHEATHING TYP. —
 HOUSE WRAP TYP. —
 VINYL SIDING TYP. —
 VINYL J CHANNEL AS RECD



OUTSIDE CORNER VENEER STONE DETAIL
 SCALE: 1" = 1'-0"



SECTION C-C
 SCALE: 1/2" = 1'-0"

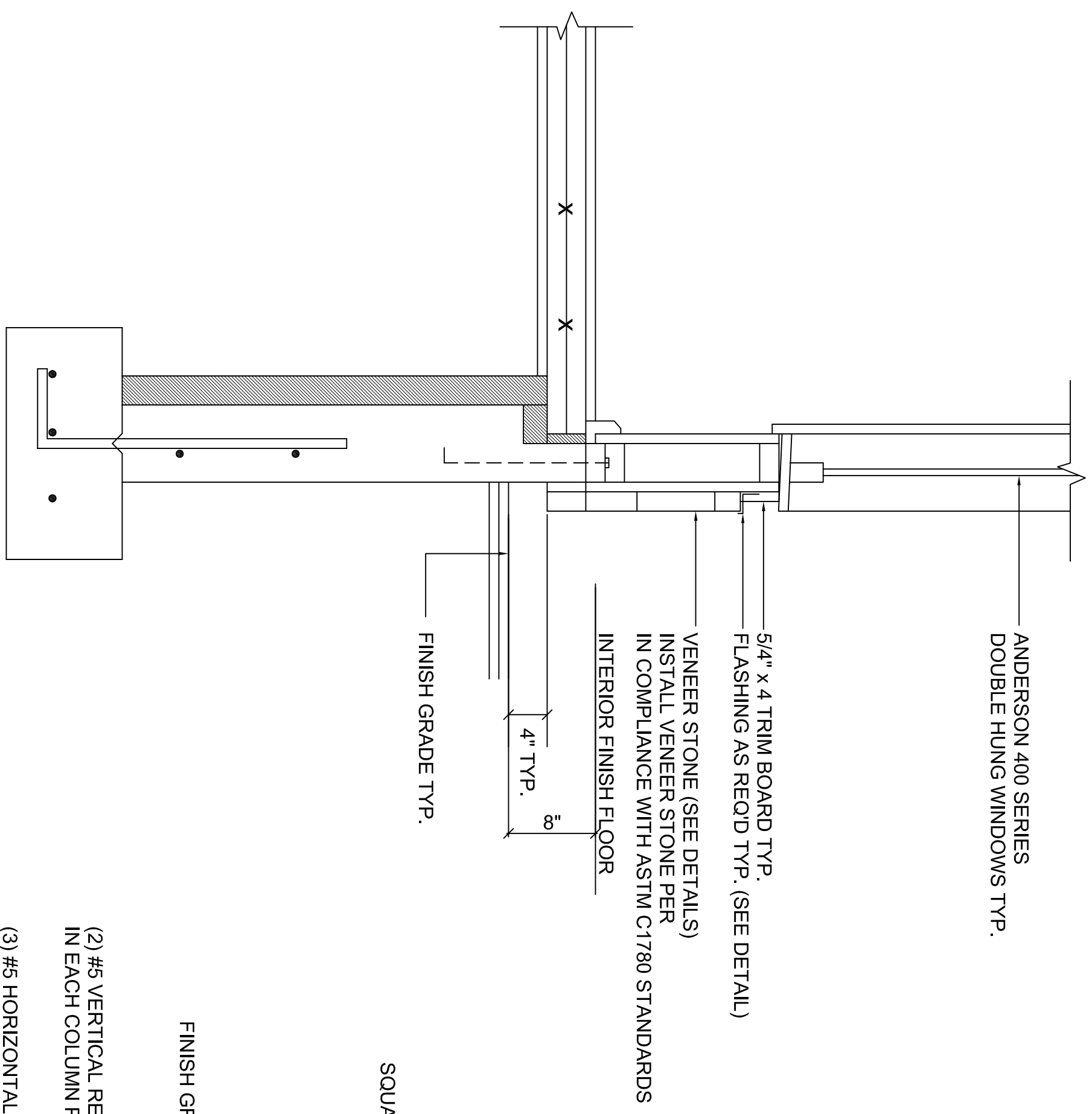
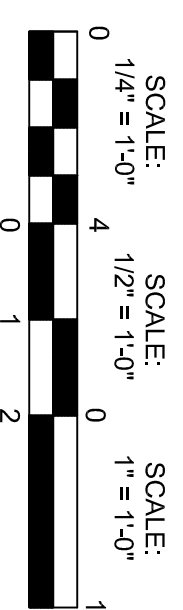


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3 / 18 / 2015	JVD	
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6 / 2 / 2017	JVD	

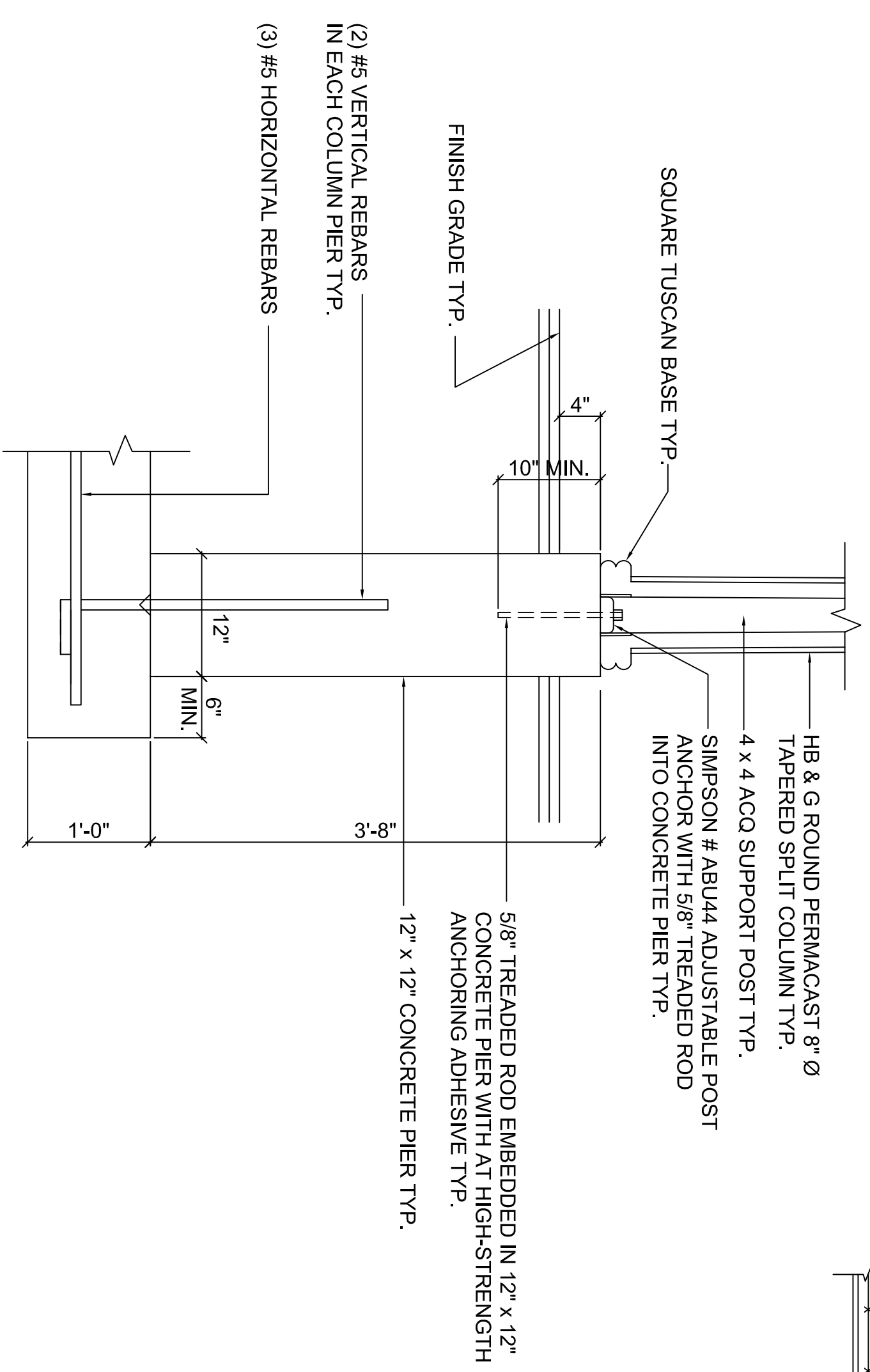
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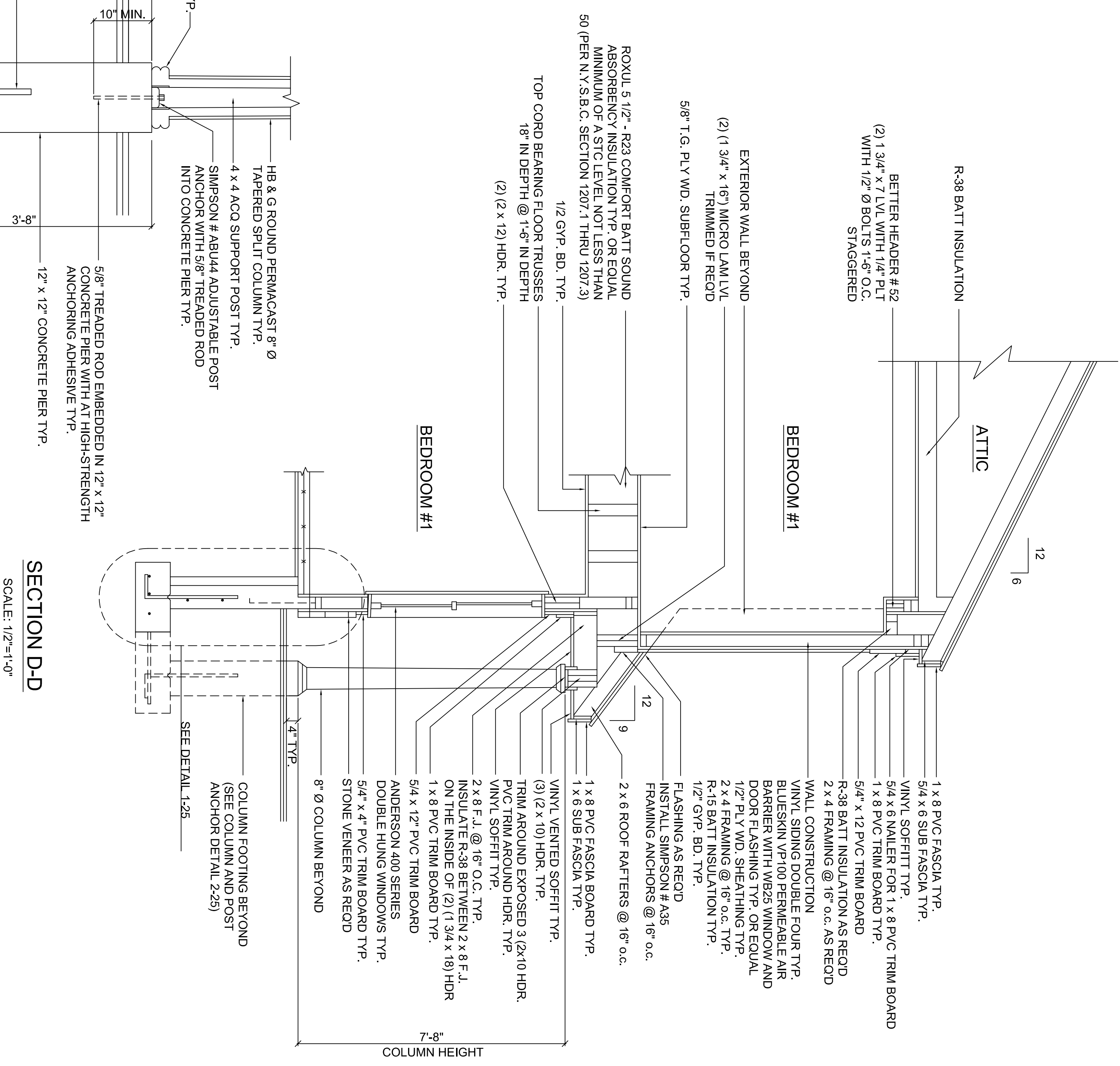
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DATE	6 / 3 / 2014
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JOB NO.	COLUMBIA STREET
A-24	
CONTRACT NO.	CDA 2017-100



DETAIL 1-25
SCALE: 1"=1'-0"



DETAIL 2-25
SCALE: 1"=1'-0"



SECTION D-D
SCALE: 1/2"=1'-0"

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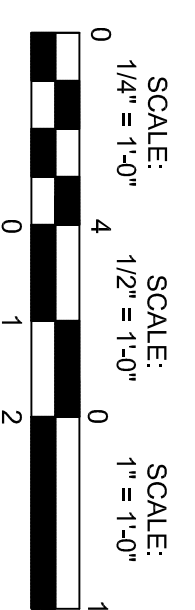
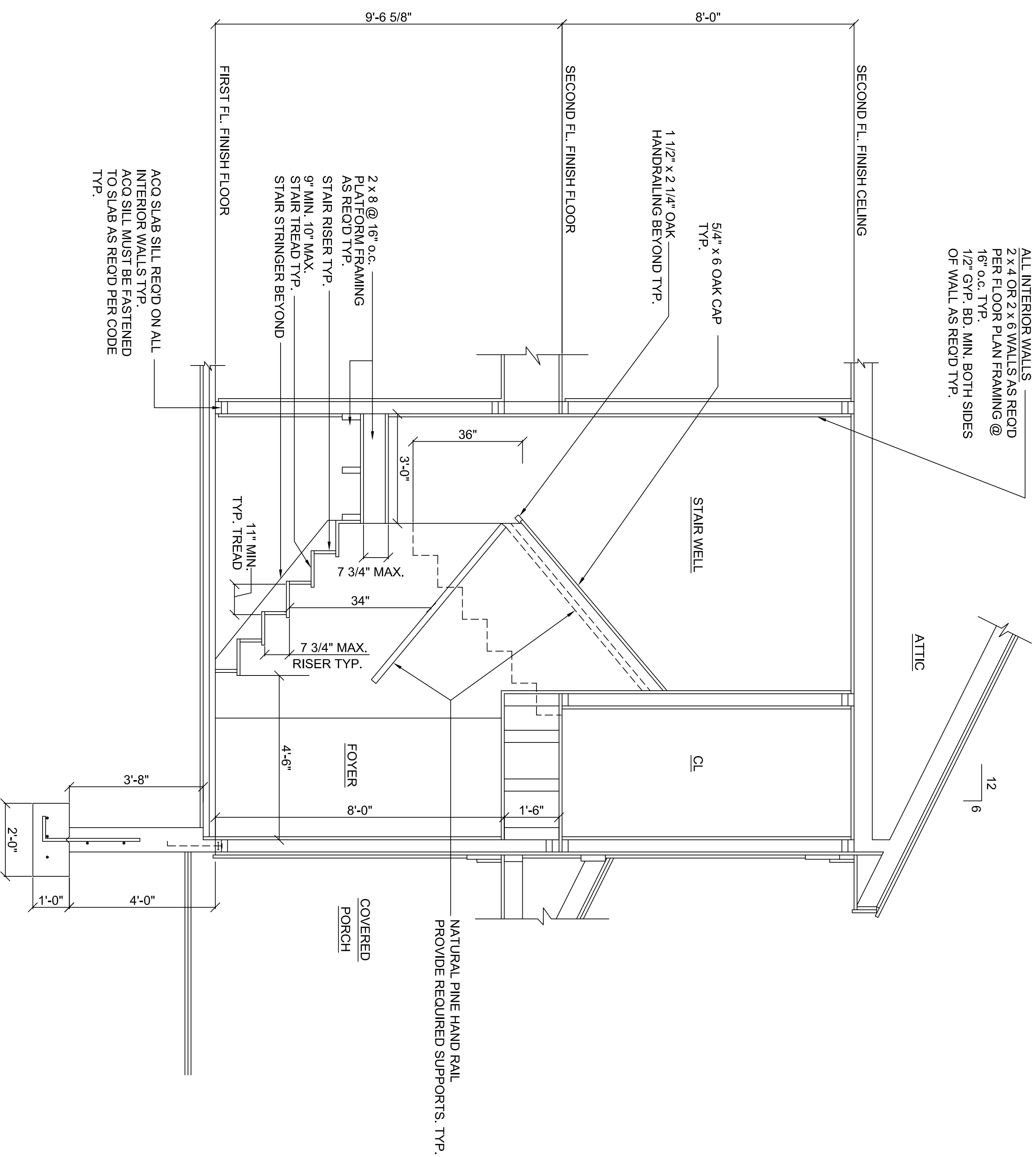
REVISIONS	
3 / 18 / 2015	JVD
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6 / 2 / 2017	JVD

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CDA 2017-100



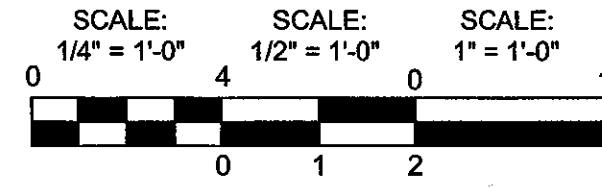
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6/2/2017	JVD

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1004.12.2.2 Dishwasher. A clear floor space, positioned for a parallel or forward approach to the dishwasher, shall be provided. The clear floor space shall be positioned beyond the swing of the dishwasher door.

1004.12.2.3 Cooktop. A clear floor space, positioned for a parallel or forward approach to the cooktop, shall be provided. The centerline of the clear floor space shall align with the centerline of the cooktop. Where the clear floor space is positioned for a forward approach, knee and toe clearance complying with Section 305 shall be provided. Where knee and toe space is provided, the underside of the range or cooktop shall be insulated or otherwise configured to prevent burns, abrasions, or electrical shock.

1004.12.2.4 Oven. A clear floor space, positioned for a parallel or forward approach to the oven, shall be provided.

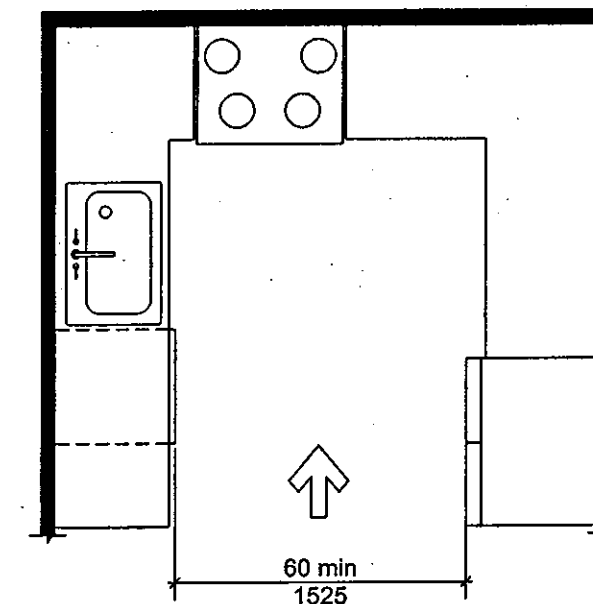


Fig. 1004.12.1.2
U-Shaped Kitchen Clearance in Type B Units

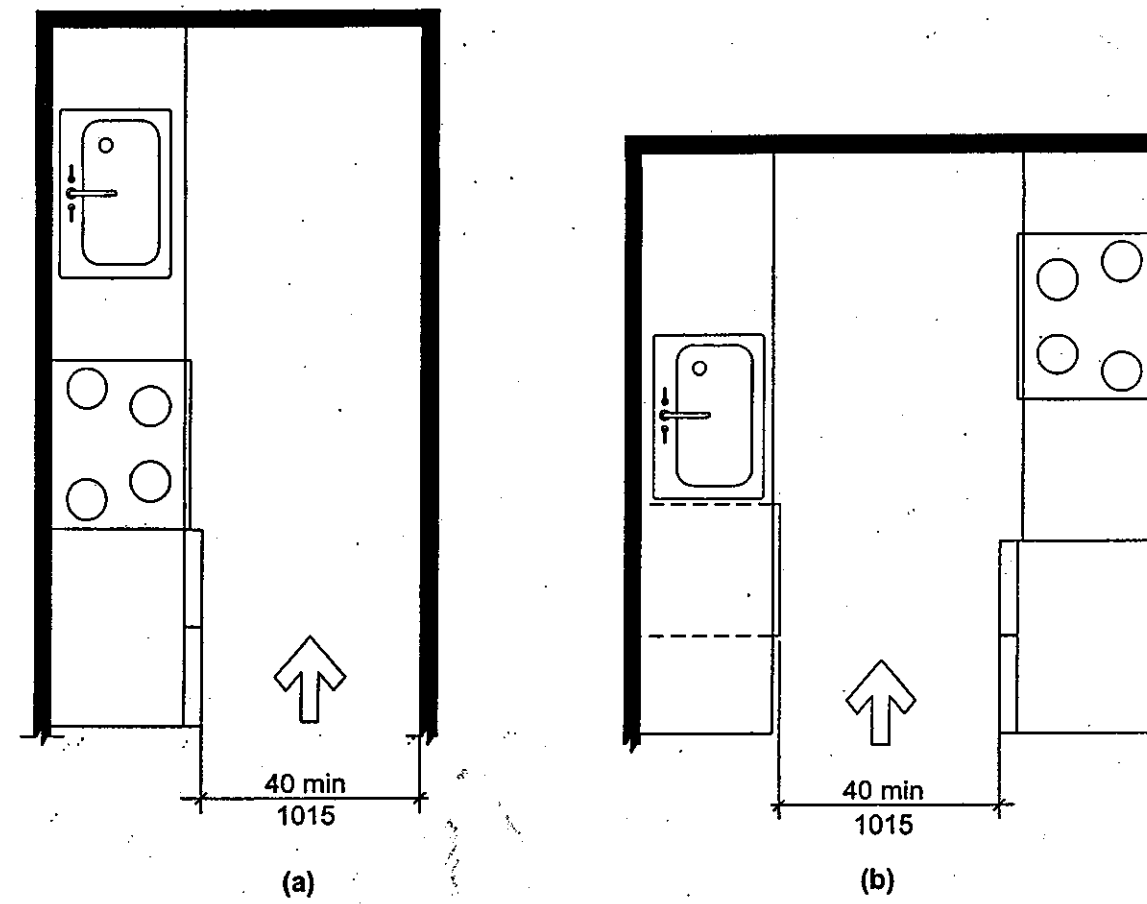


Fig. 1004.12.1.1
Minimum Kitchen Clearance in Type B Units

1004.12.2.5 Refrigerator/Freezer. A clear floor space, positioned for a parallel or forward approach to the refrigerator/freezer, shall be provided.

1004.12.2.6 Trash Compactor. A clear floor space, positioned for a parallel or forward approach to the trash compactor, shall be provided.

1005 Units with Accessible Communication Features

1005.1 General. Units required to have accessible communication features shall comply with Section 1005.

1005.2 Unit Smoke Detection. Where provided, unit smoke detection shall include audible notification complying with NFPA-72 listed in Section 105.2.2.

1005.3 Building Fire Alarm System. Where a building fire alarm system is provided, the system wiring shall be extended to a point within the unit in the vicinity of the unit smoke detection system.

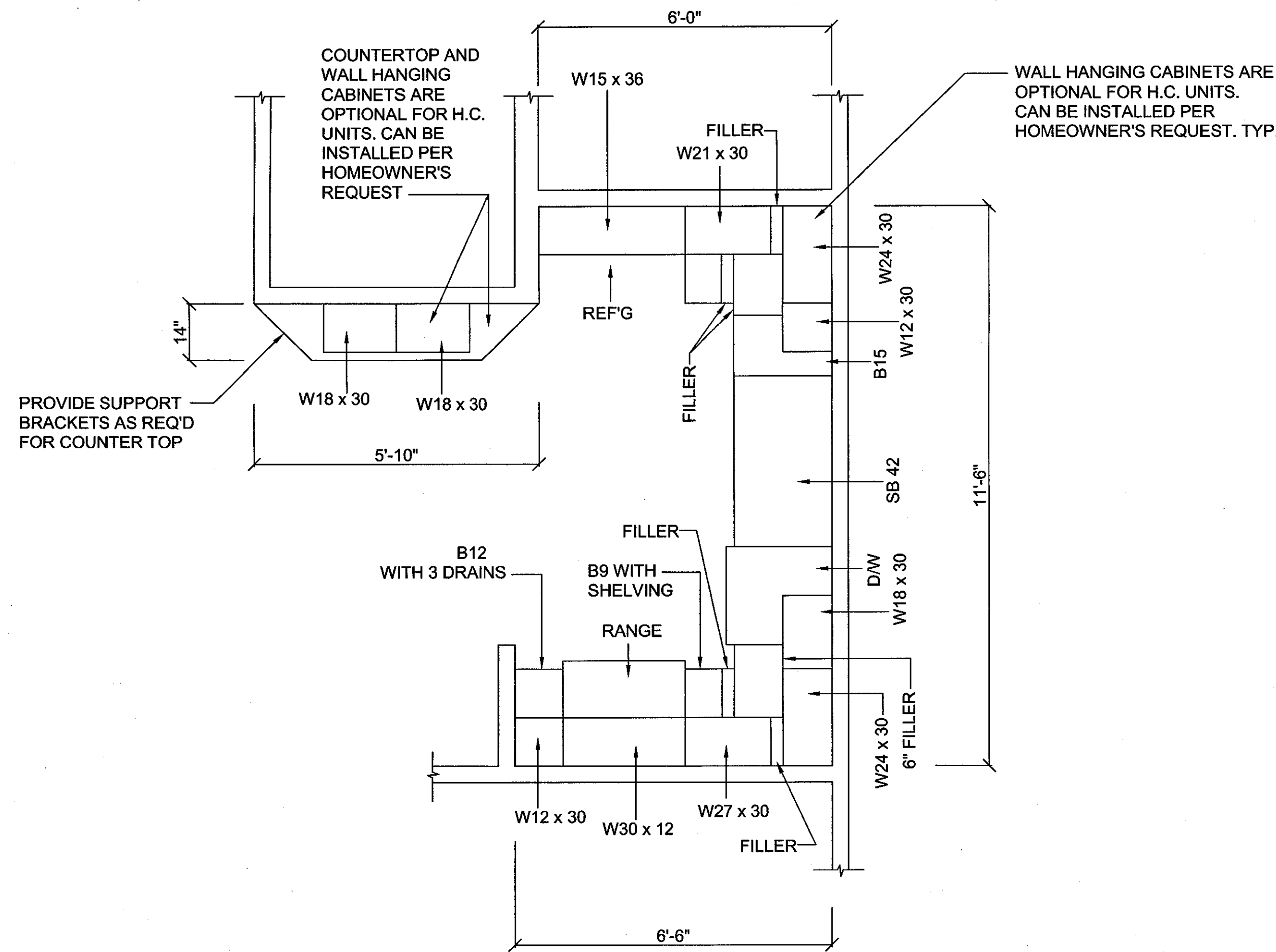
1005.4 Visible Notification Appliances. Visible notification appliances, where provided within the unit as part of the unit smoke detection system or the building fire alarm system, shall comply with Section 1005.4.

1005.4.1 Appliance. Visible notification appliances shall comply with Section 702.

1005.4.2 Activation. All visible notification appliances provided within the unit for smoke detection notification shall be activated upon smoke detection. All visible notification appliances provided within the unit for building fire alarm notification shall be activated upon activation of the building fire alarm in the portion of the building containing the unit.

1005.4.3 Interconnection. The same visible notification appliances shall be permitted to provide notification of unit smoke detection and building fire alarm activation.

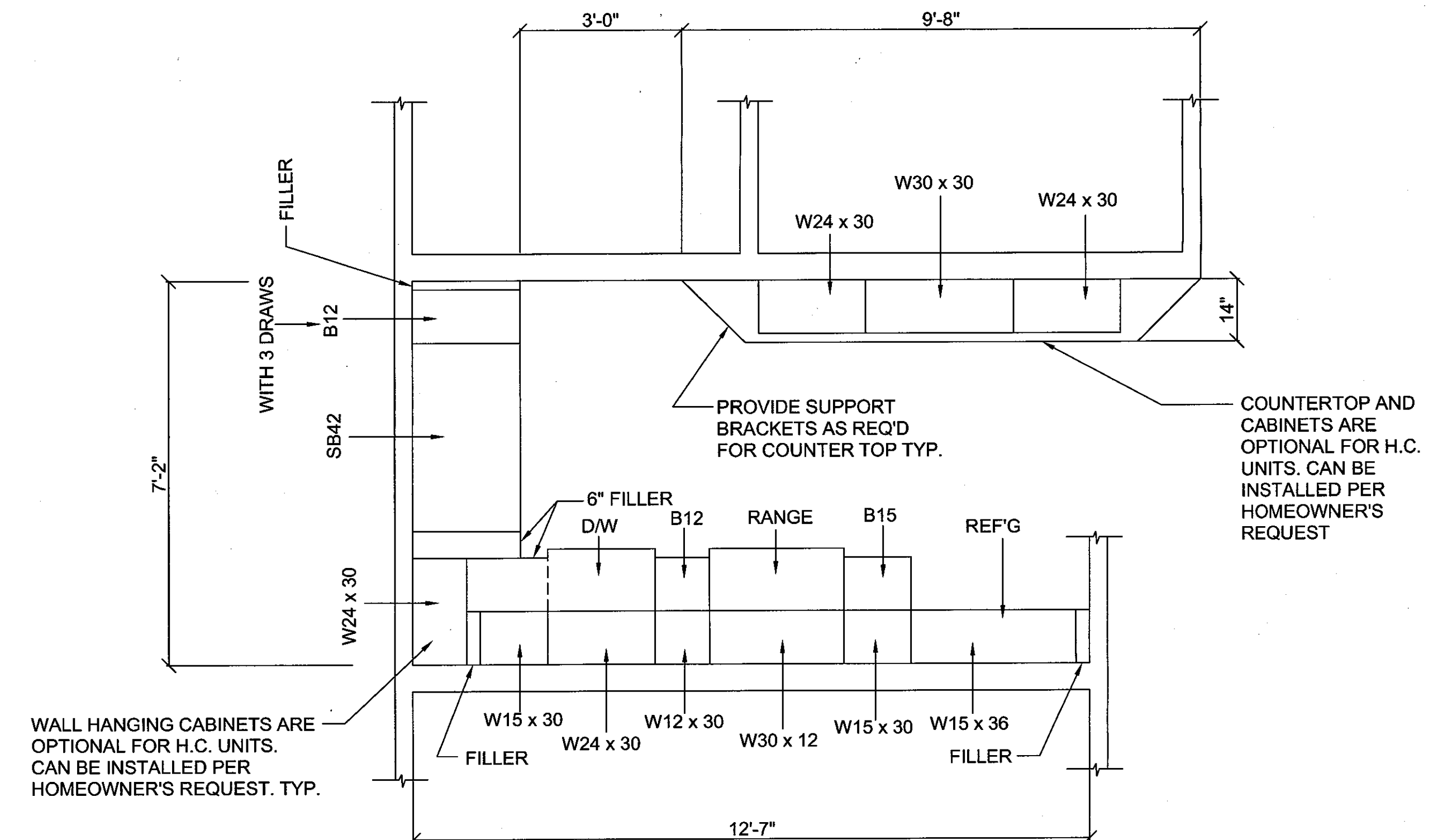
1005.4.4 Prohibited Use. Visible notification appliances used to indicate unit smoke detection or building fire alarm activation shall not be used for any other purpose within the unit.



KITCHEN CABINET LAYOUT
ONE BEDROOM UNIT

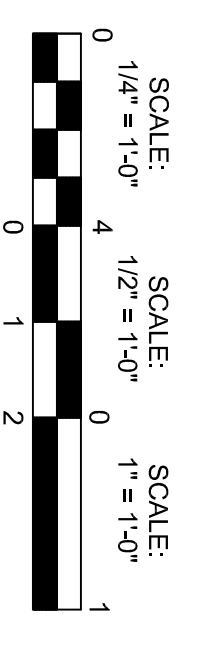
SCALE: 1/2" = 1'-0"

NOTE: ADJUST CABINET HEIGHTS AS REQUIRED TO COMPLY WITH HANDICAP STANDARDS

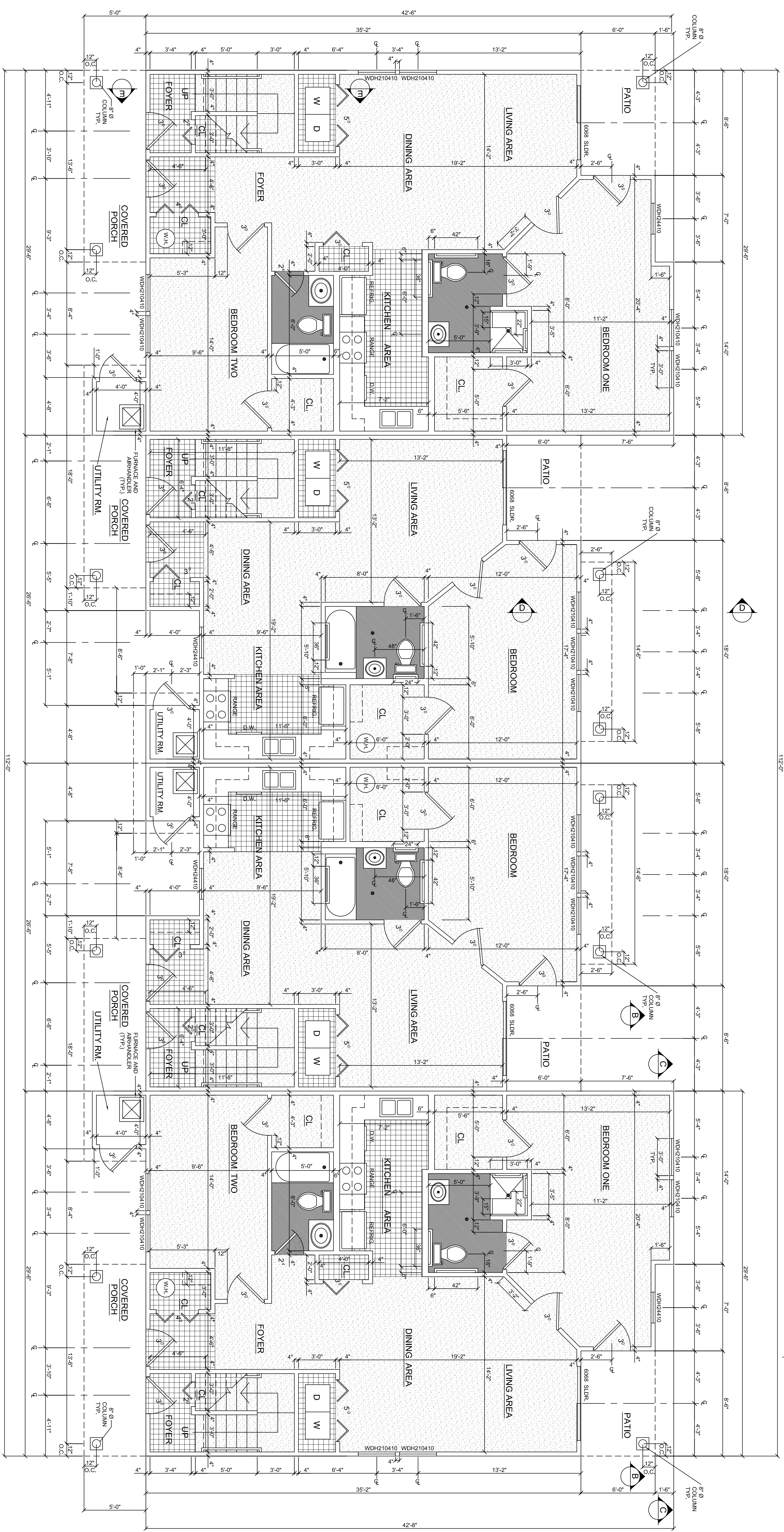


KITCHEN CABINET LAYOUT
TWO BEDROOM UNIT

SCALE: 1/2" = 1'-0"

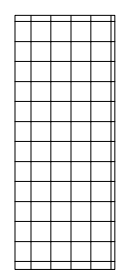
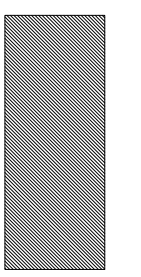
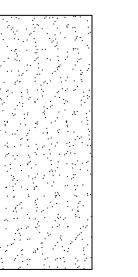


FRONT OF BUILDING STREET ENTRANCE



EIGHT UNIT BUILDING
FIRST FLOOR H.C. FLOORING PLAN
SCALE: 1/4"=1'-0"

LEGEND

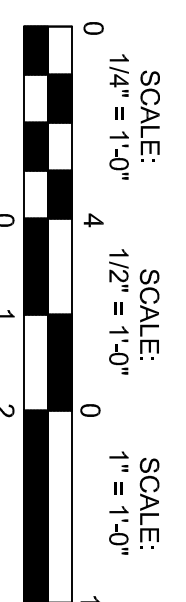
-  VINYL TILE FLOOR AREA
-  CERAMIC TILE FLOOR AREA
-  CARPET FLOOR AREA

REVISIONS	DATE	BY
3 / 18 / 2015	JVD	
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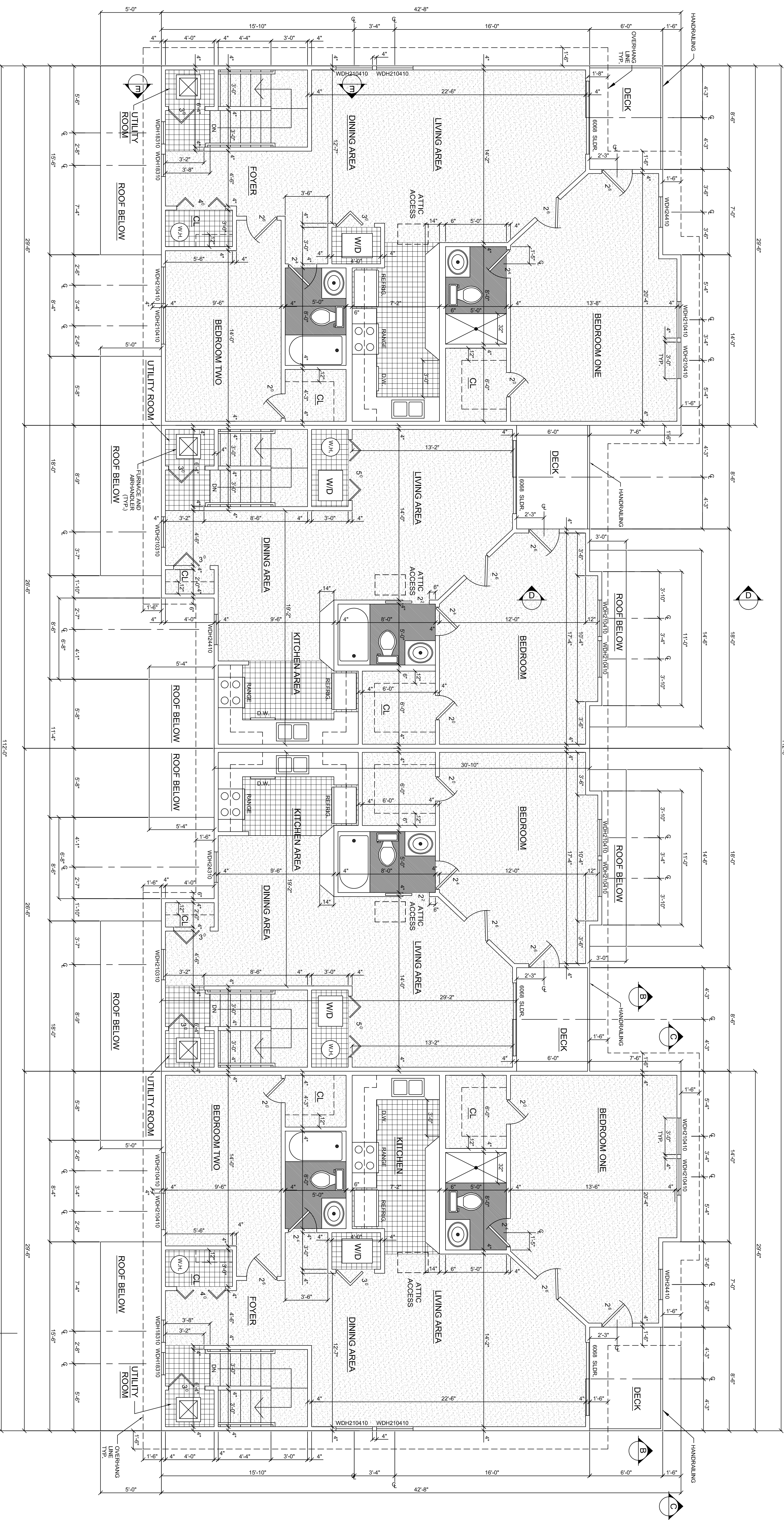
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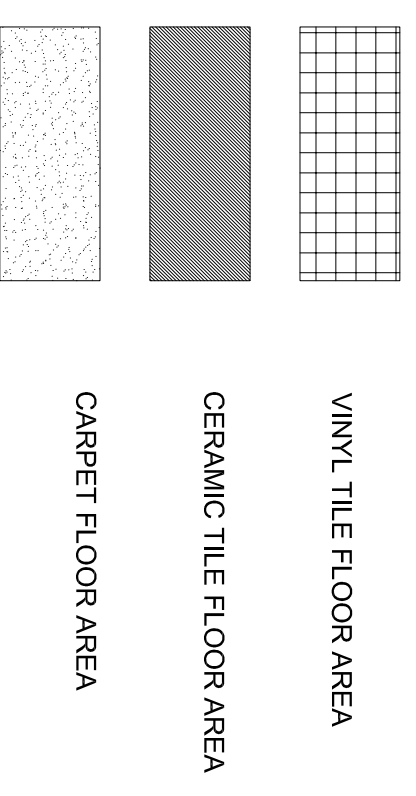
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FRONT OF BUILDING STREET ENTRANCE



EIGHT UNIT BUILDING
SECOND FLOOR FLOORING PLAN
SCALE: 1/4"=1'-0"



LEGEND

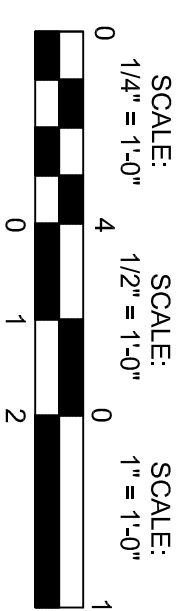
NOTE: SEE HVAC FLOOR PLAN FOR SOFFIT SIZE THAT IS CONTAINING HVAC DUCTWORK.

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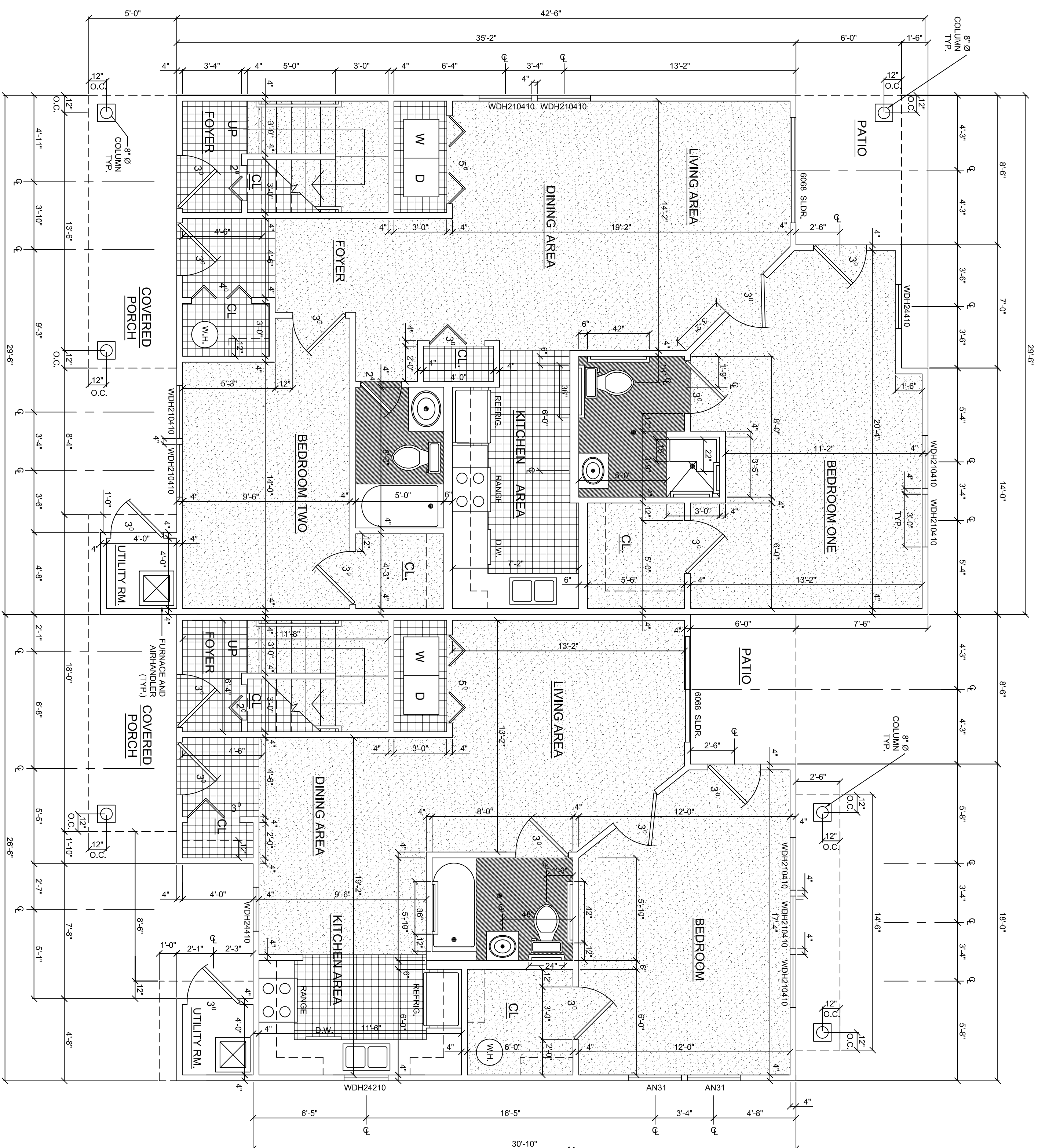
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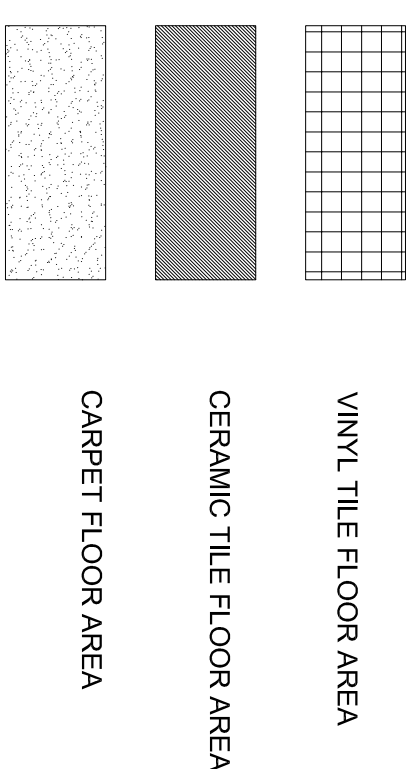


FRONT OF BUILDING STREET ENTRANCE



REAR OF BUILDING PARKING LOT ENTRANCE

FOUR UNIT BUILDING
 FIRST FLOOR H.C. FLOORING PLAN
 SCALE: 1/4" = 1'-0"

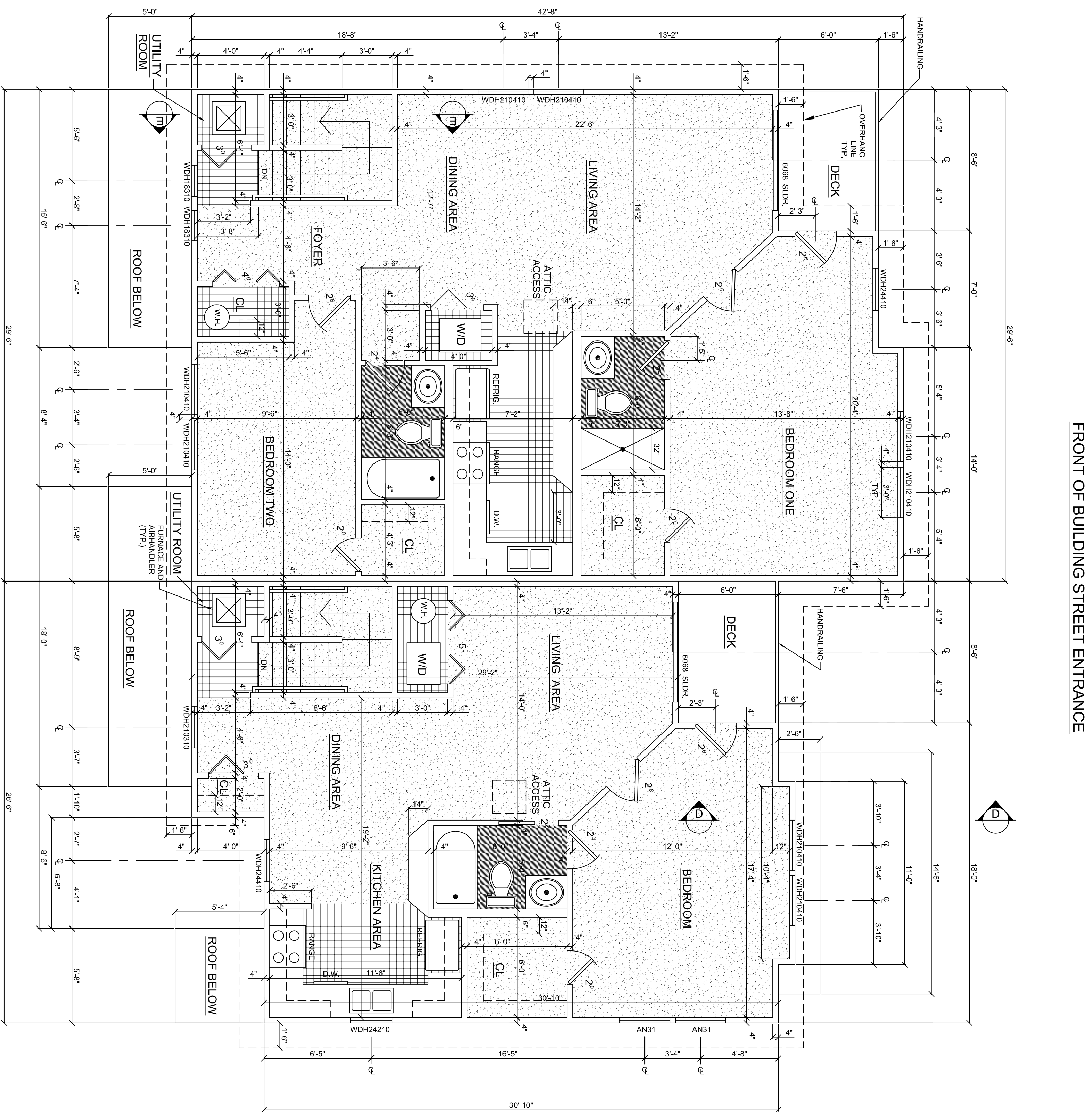
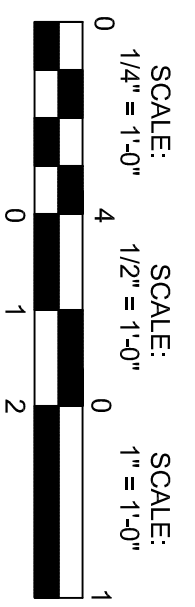


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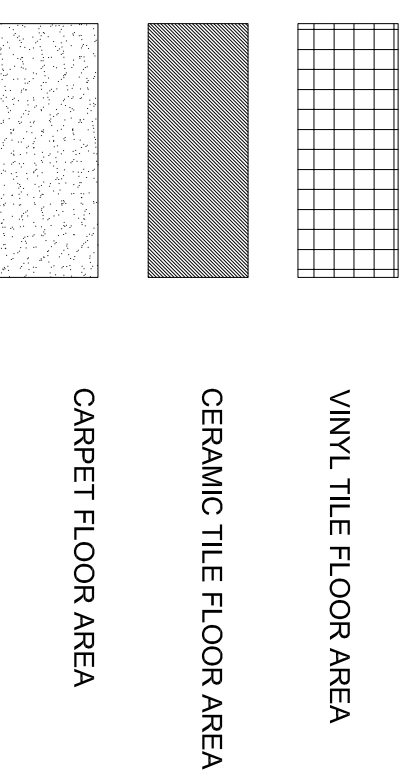
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A-31	
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FOUR UNIT BUILDING
SECOND FLOOR FLOORING PLAN
SCALE: 1/4"=1'-0"

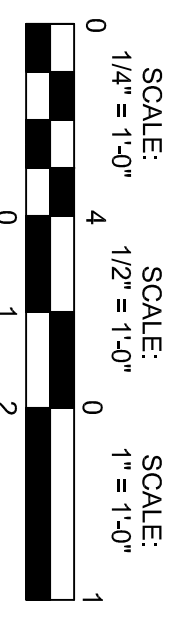


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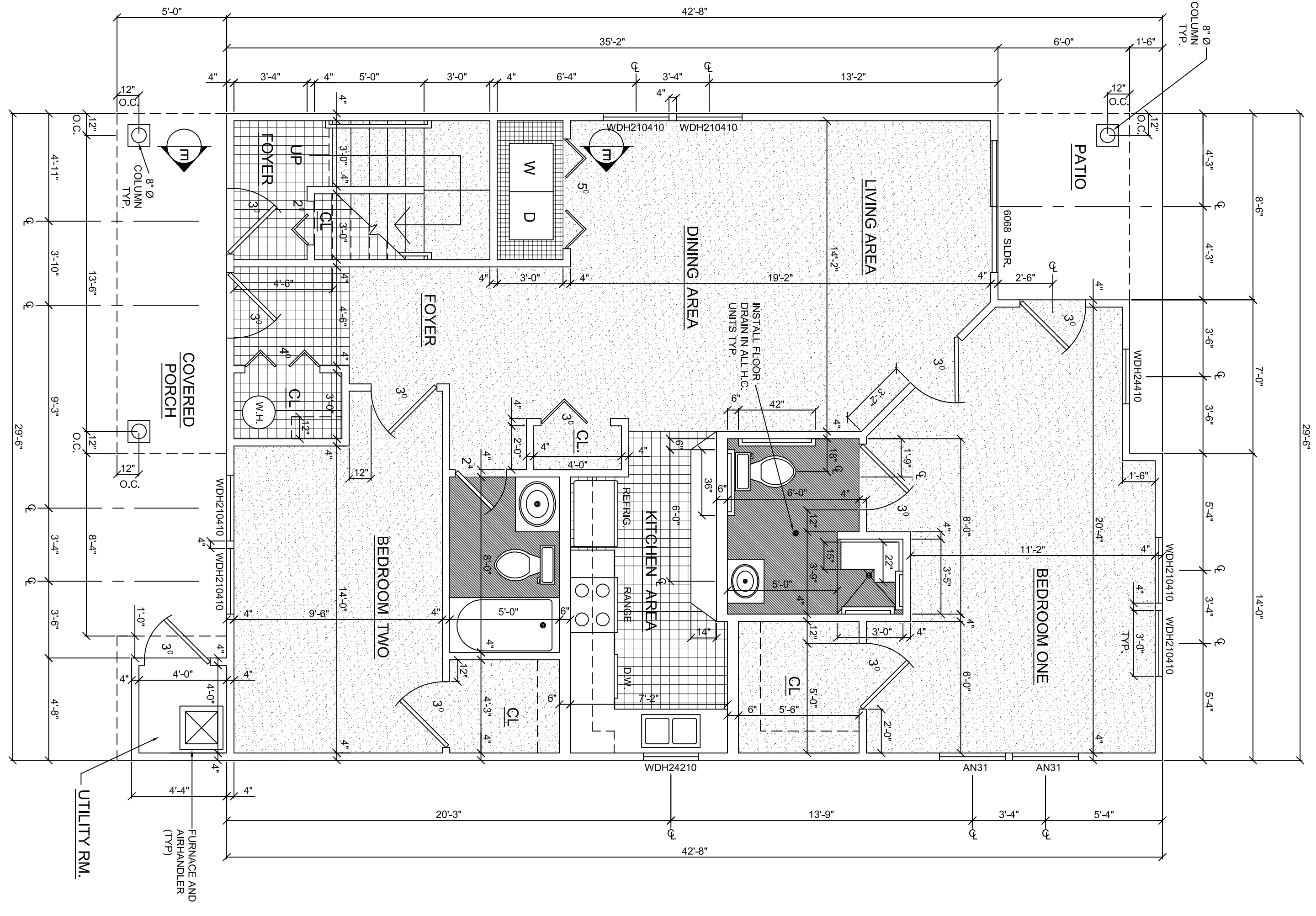
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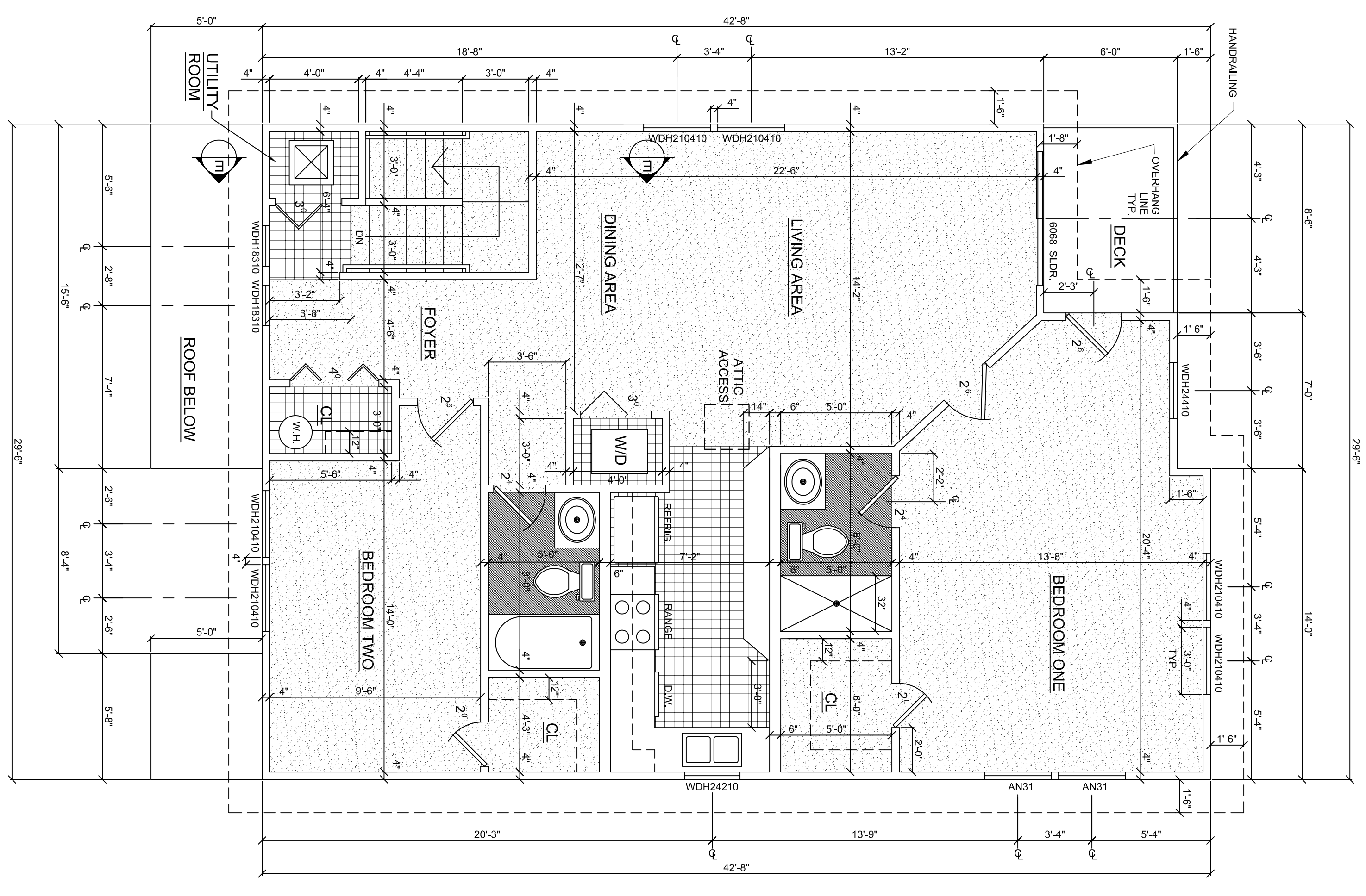
FRONT OF BUILDING STREET ENTRANCE



TWO UNIT BUILDING
TWO BR. FIRST FLOOR H.C. FLOORING PLAN
SCALE: 1/4" = 1'-0"

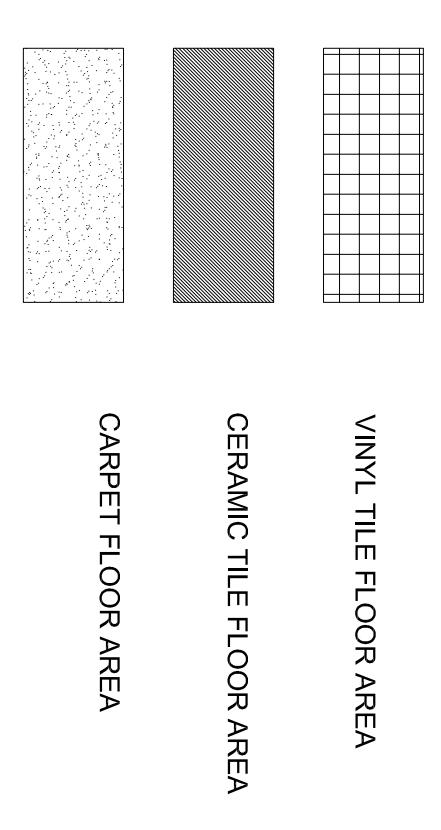
REAR OF BUILDING PARKING LOT ENTRANCE

FRONT OF BUILDING STREET ENTRANCE



TWO UNIT BUILDING
TWO BEDROOM SECOND FLOOR FLOORING PLAN
SCALE: 1/4" = 1'-0"

REAR OF BUILDING PARKING LOT ENTRANCE



LEGEND

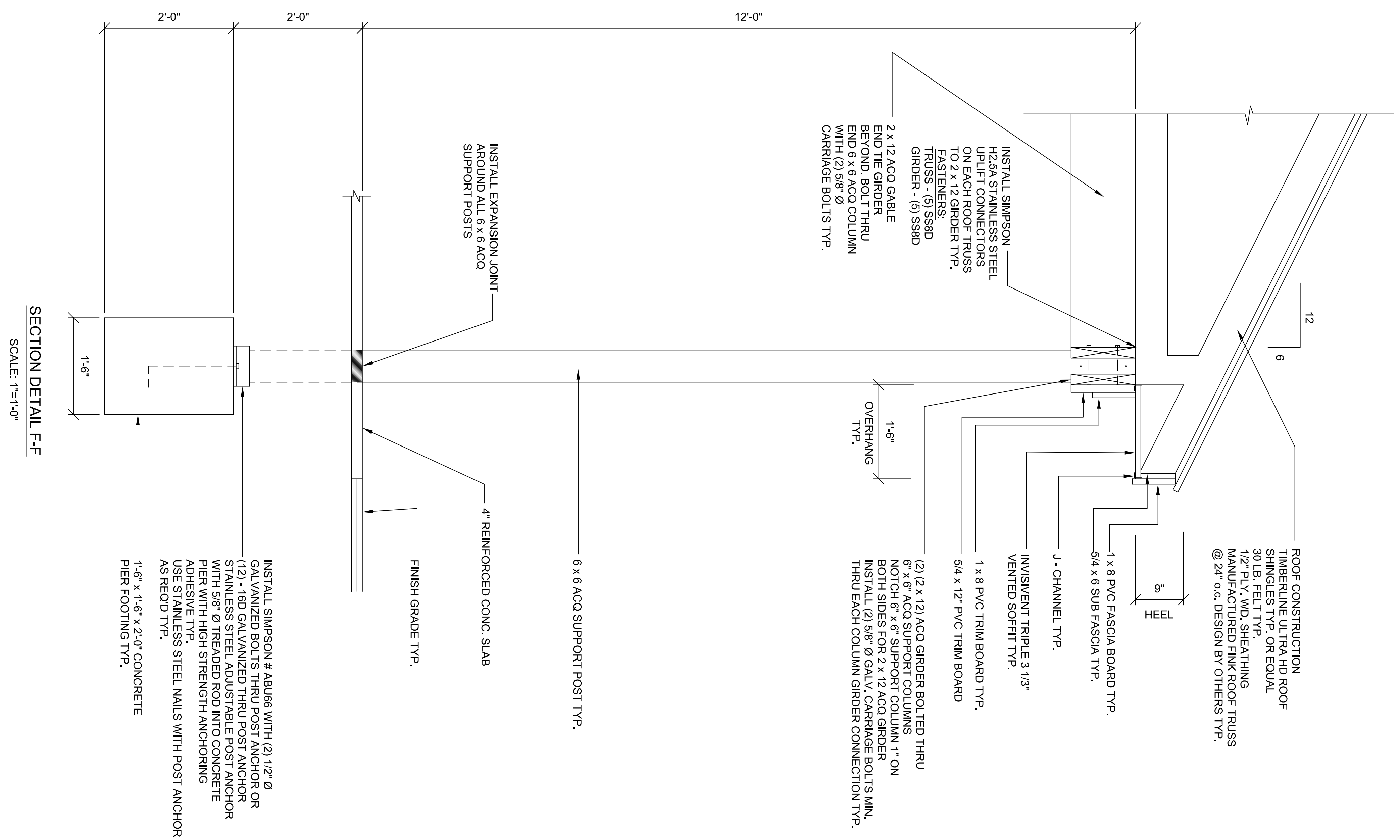
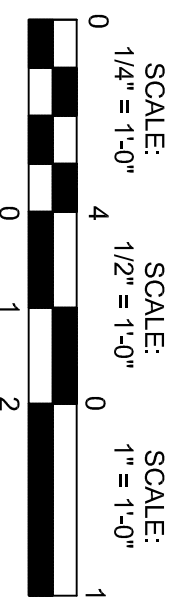
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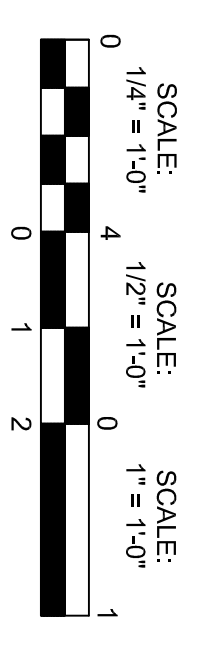
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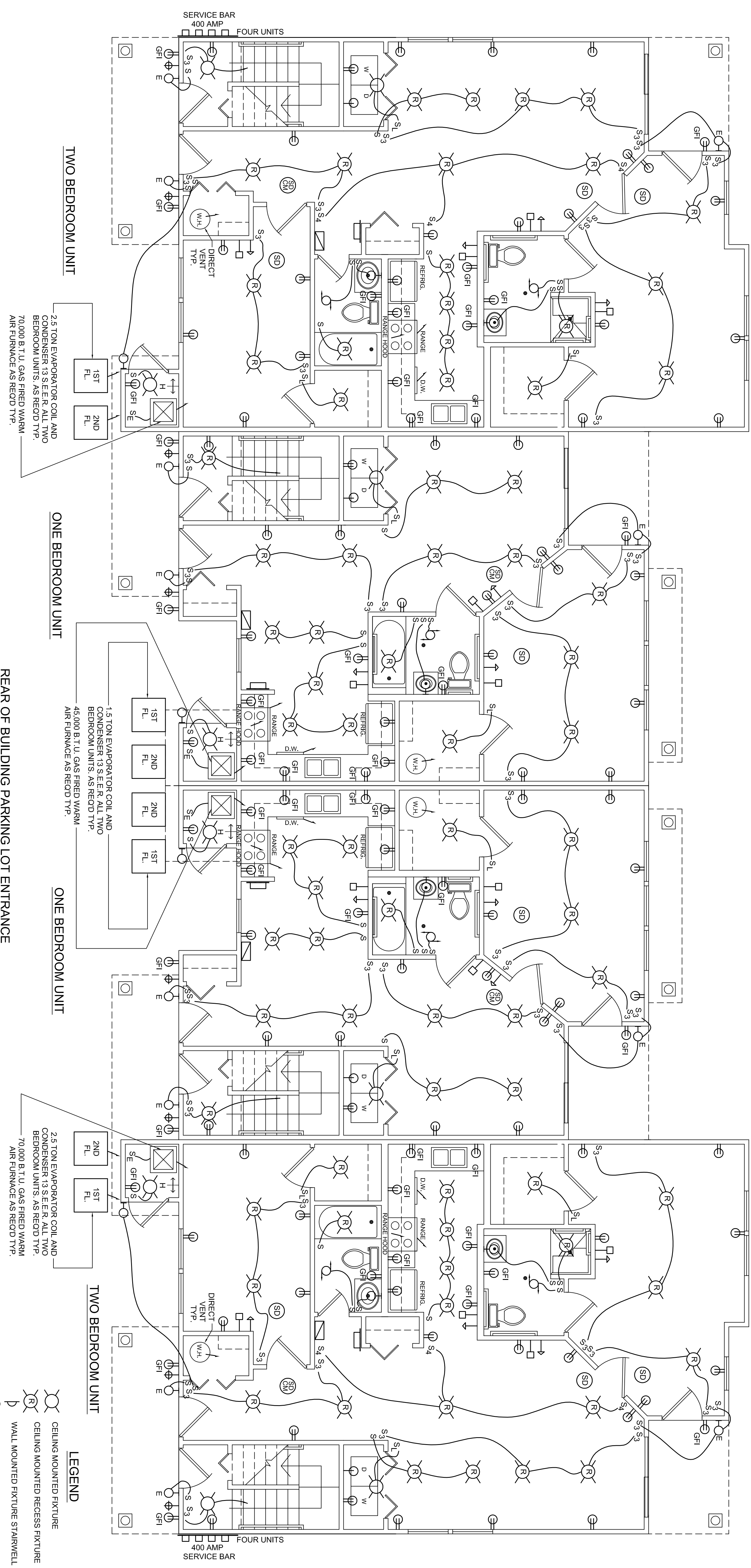
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CONTRACT NO.	CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



EIGHT UNIT BUILDING
FIRST FLOOR H.C. ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

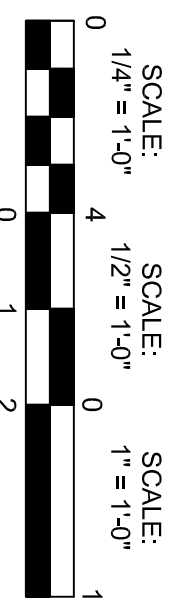
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 - CEILING MOUNTED SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR
 - FAN VENTED TO EXTERIOR
 - DRYER RECEPTACLE
 - DUPLEX RECEPTACLE
 - DUPLEX RECEPTACLE
 - CABLE TV
 - PHONE
 - TWO WAY SWITCH
 - THREE WAY SWITCH
 - FOUR WAY SWITCH
 - TWO WAY SWITCH WITH INDICATOR LIGHT
 - FURNACE EMERGENCY SWITCH
 - BELL
 - BELL SWITCH
 - 150 AMP SERVICE PANEL
 - HOME RUN
 - ELECTRIC RECESSED WALL HEATER
 - FAN FORCED 120 V 1500 W

REVISIONS	DATE	BY
3 / 18 / 2015	JVD	
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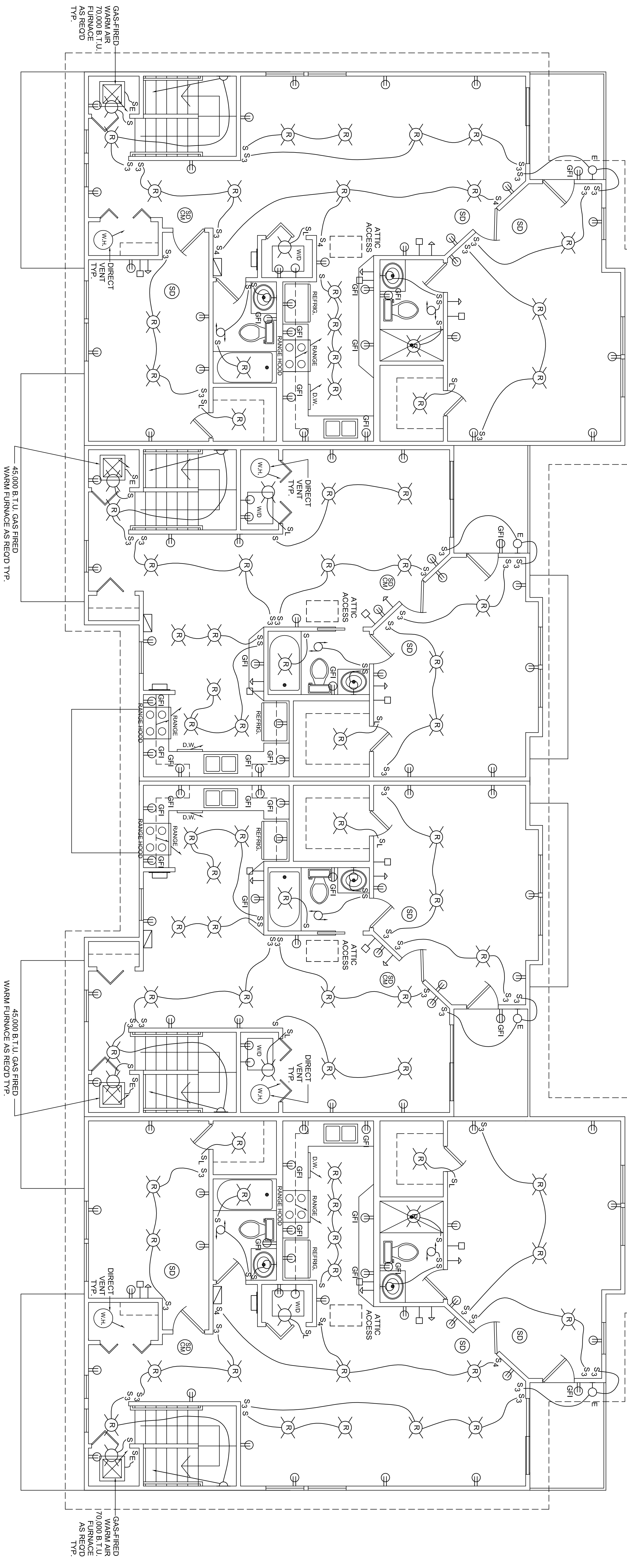
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E-1	CONTRACT NO. CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT

ONE BEDROOM UNIT

ONE BEDROOM UNIT

TWO BEDROOM UNIT

REAR OF BUILDING PARKING LOT ENTRANCE

EIGHT UNIT BUILDING
SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

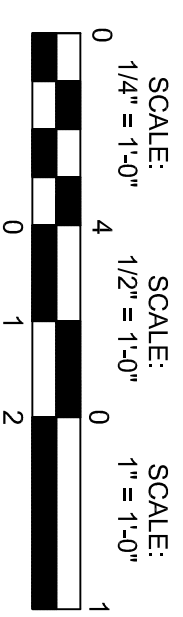
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 - WALL MOUNTED FIXTURE EXTERIOR
 - CEILING MOUNTED SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR
 - FAN VENTED TO EXTERIOR
 - DRYER RECEPTACLE
 - DUPLEX RECEPTACLE
 - CABLE TV
 - PHONE
 - TWO WAY SWITCH
 - THREE WAY SWITCH
 - FOUR WAY SWITCH
 - TWO WAY SWITCH WITH INDICATOR LIGHT
 - FURNACE EMERGENCY SWITCH
 - BELL
 - BELL SWITCH
 - 150 AMP SERVICE PANEL
 - HOME RUN

REVISIONS	
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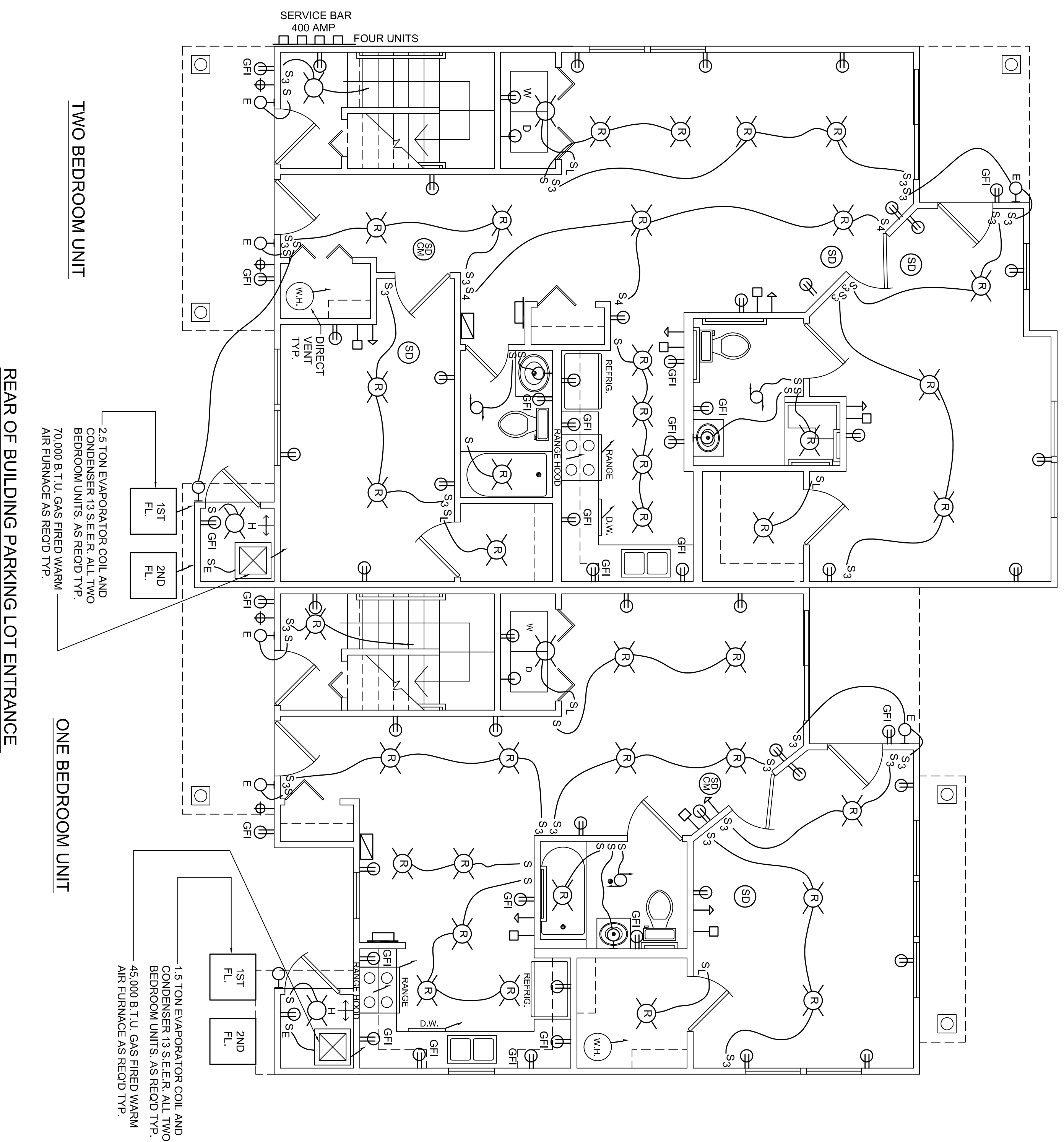
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JOB NO.	COLUMBIA STREET
E-2	CONTRACT NO. CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT

2.5 TON EVAPORATOR COIL AND CONDENSER 13 S.E.E.R. ALL TWO BEDROOM UNITS. AS REQD TYP. 70,000 B.T.U. GAS FIRED WARM AIR FURNACE AS REQD TYP.

ONE BEDROOM UNIT

1.5 TON EVAPORATOR COIL AND CONDENSER 13 S.E.E.R. ALL TWO BEDROOM UNITS. AS REQD TYP. 45,000 B.T.U. GAS FIRED WARM AIR FURNACE AS REQD TYP.

REAR OF BUILDING PARKING LOT ENTRANCE

FOUR UNIT BUILDING

FIRST FLOOR H.C. ELECTRICAL PLAN

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

LEGEND

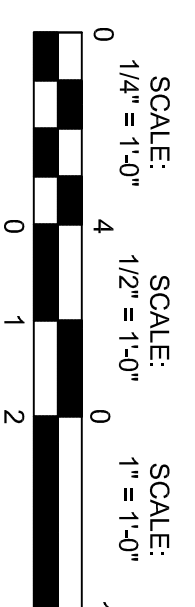
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- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR
- FAN VENTED TO EXTERIOR
- DRYER RECEPTACLE
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- CABLE TV
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- THREE WAY SWITCH
- FOUR WAY SWITCH
- TWO WAY SWITCH WITH INDICATOR LIGHT
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5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

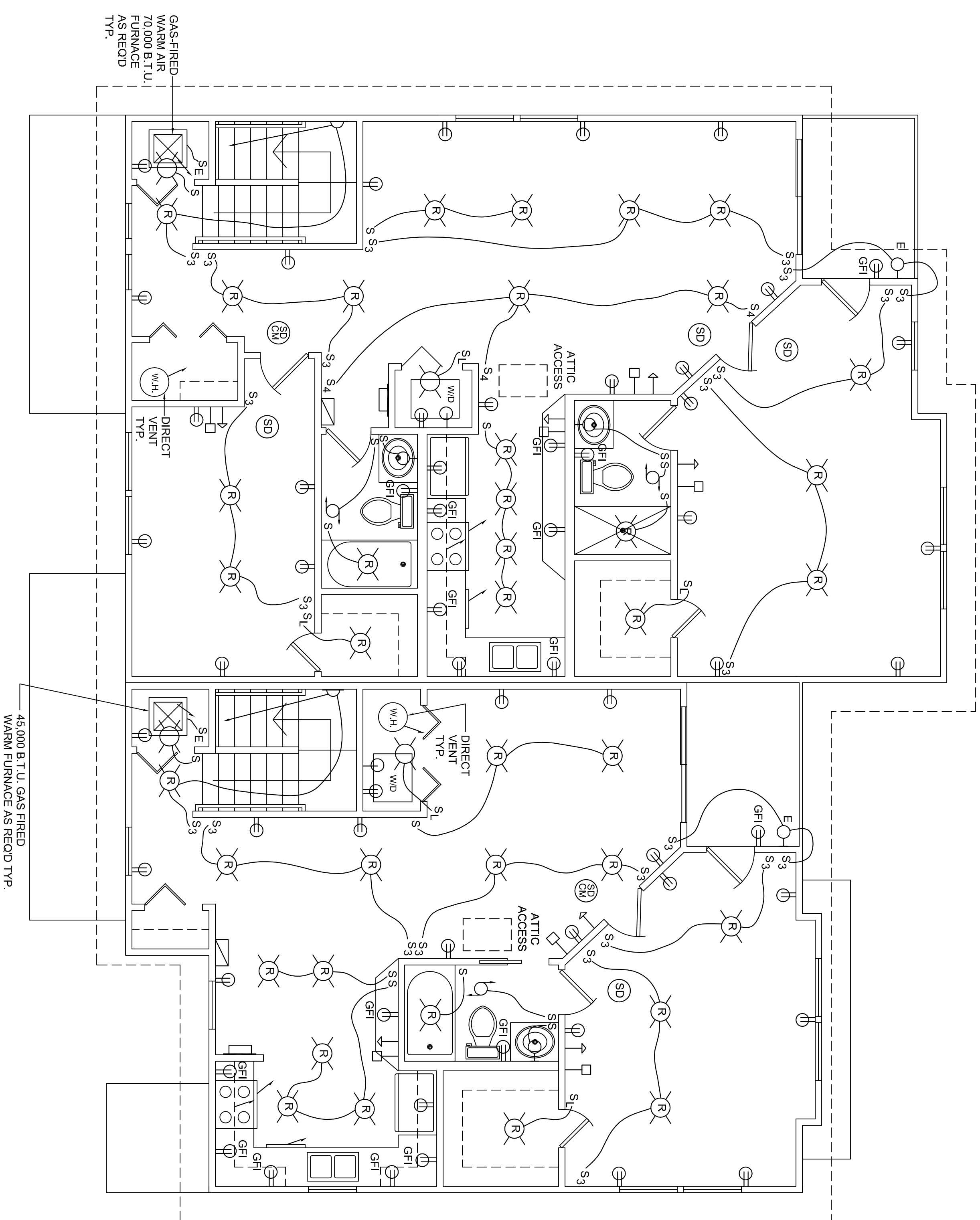
COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

JAMES V. DE LUCCA, R.A.
12 LINDA LANE EAST
RIVERHEAD, N.Y. 11901
(631) 727-1611

DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
E-3	CONTRACT NO. CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT

ONE BEDROOM UNIT

REAR OF BUILDING PARKING LOT ENTRANCE

FOUR UNIT BUILDING
SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

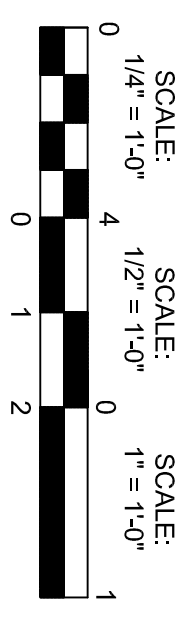
- LEGEND**
- CEILING MOUNTED FIXTURE
 - WALL MOUNTED FIXTURE
 - WALL MOUNTED FIXTURE STAIRWELL
 - WALL MOUNTED FIXTURE EXTERIOR
 - CEILING MOUNTED SMOKE DETECTOR
 - CEILING MOUNTED SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR
 - FAN VENTED TO EXTERIOR
 - DRYER RECEPTACLE
 - DUPLEX RECEPTACLE
 - DUPLEX RECEPTACLE
 - CABLE TV
 - PHONE
 - TWO WAY SWITCH
 - THREE WAY SWITCH
 - FOUR WAY SWITCH
 - TWO WAY SWITCH WITH INDICATOR LIGHT
 - FURNACE EMERGENCY SWITCH
 - BELL
 - BELL SWITCH
 - 150 AMP SERVICE PANEL
 - HOME RUN

REVISIONS	
3 / 18 / 2015	JVD
5 / 9 / 2015	JVD
5 / 16 / 2016	JVD
6 / 2 / 2017	JVD

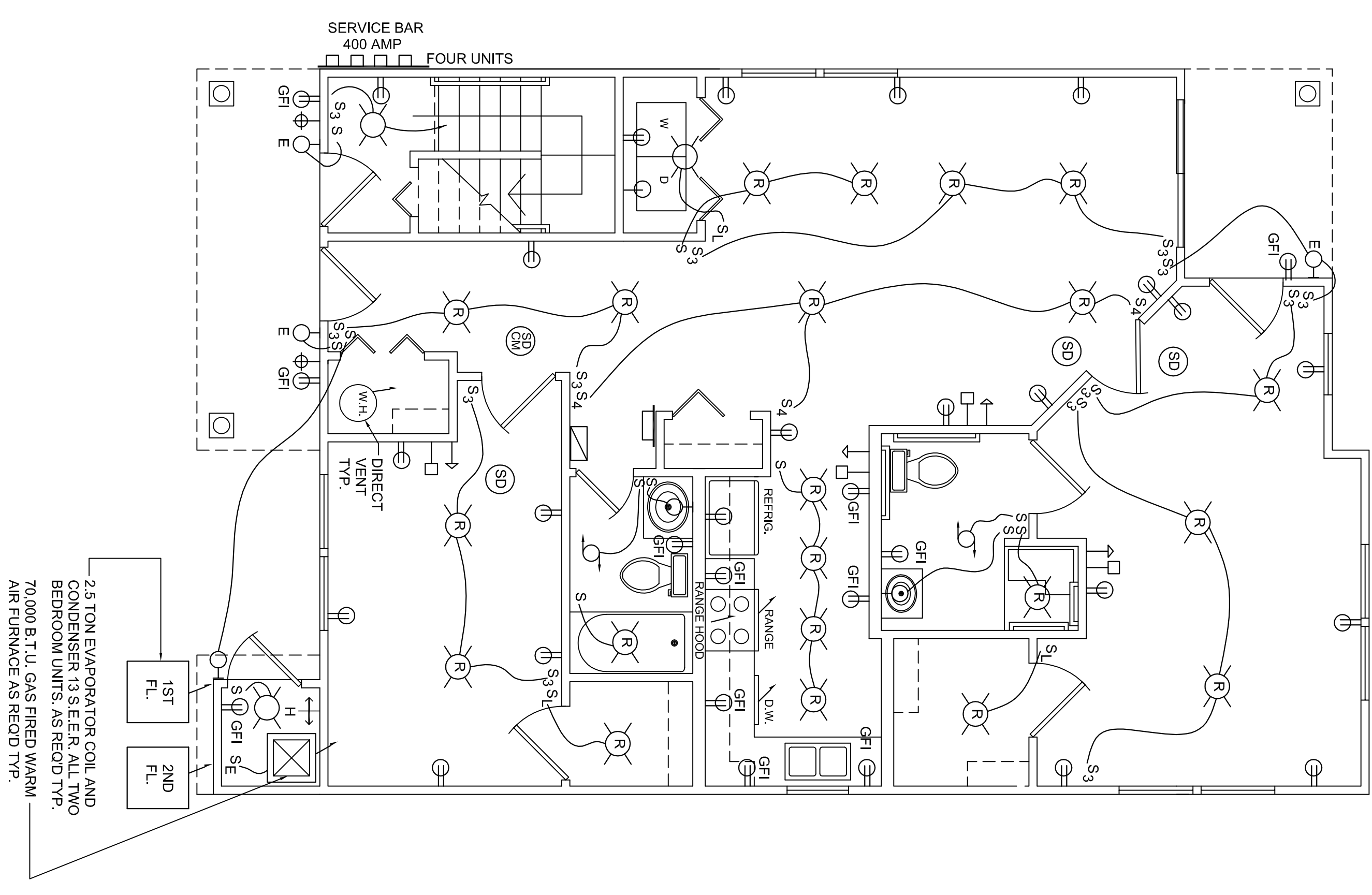
COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

JAMES V. DE LUCCA, R.A.
12 LINDA LANE EAST
RIVERHEAD, N.Y. 11901
(631) 727-1611

DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
E-4	CONTRACT NO. CDA 2017-100

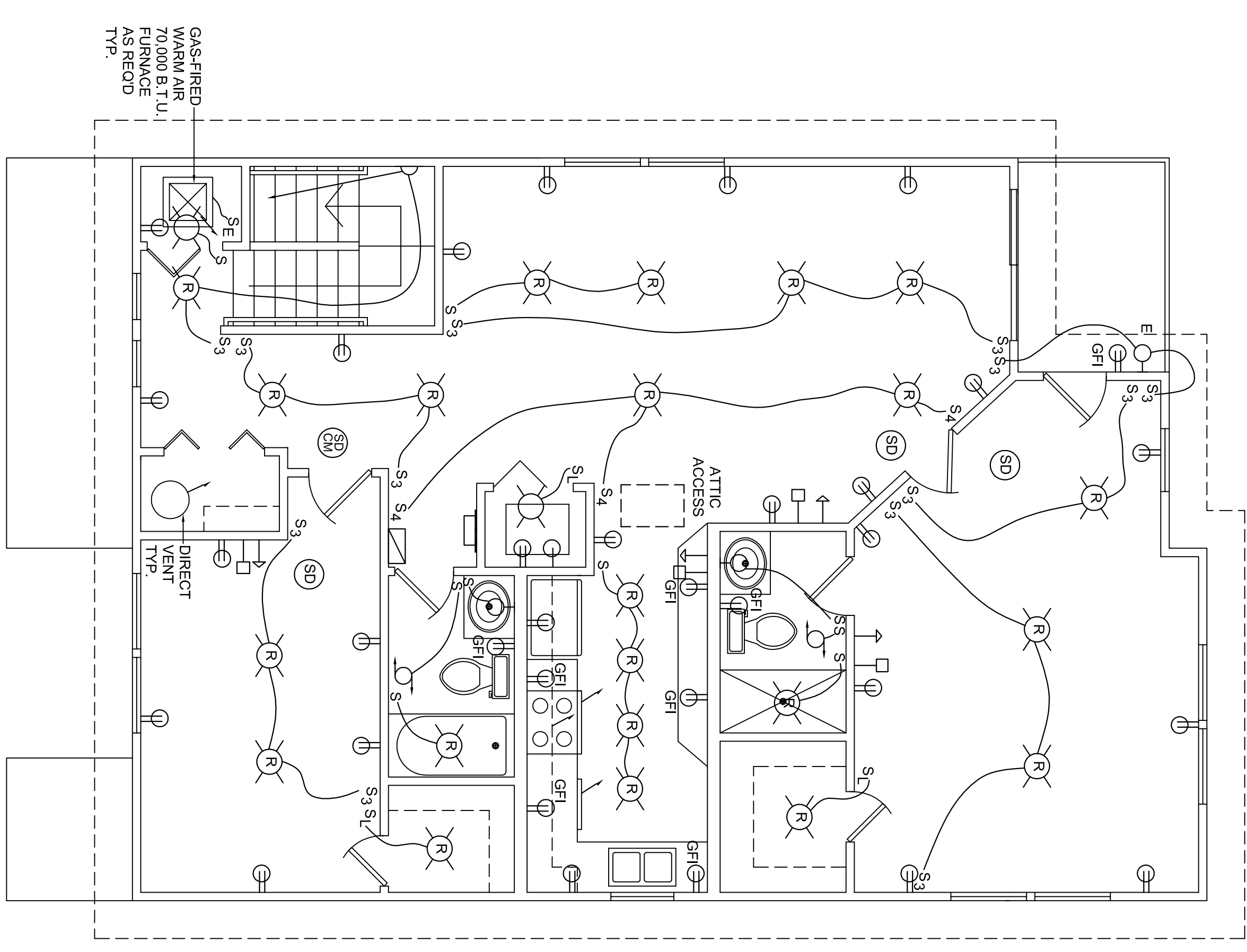


FRONT OF BUILDING STREET ENTRANCE



TWO UNIT BUILDING
REAR OF BUILDING PARKING LOT ENTRANCE
TWO BR. FIRST FLOOR H.C. ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

FRONT OF BUILDING STREET ENTRANCE



TWO UNIT BUILDING
REAR OF BUILDING PARKING LOT ENTRANCE
TWO BEDROOM SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

- LEGEND**
- CEILING MOUNTED FIXTURE
 - CEILING MOUNTED RECESS FIXTURE
 - WALL MOUNTED FIXTURE STAIRWELL
 - WALL MOUNTED FIXTURE EXTERIOR
 - CEILING MOUNTED SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR
 - FAN VENTED TO EXTERIOR
 - DRYER RECEPTACLE
 - DUPLEX RECEPTACLE
 - GFI DUPLEX RECEPTACLE
 - CABLE TV
 - PHONE
 - TWO WAY SWITCH
 - THREE WAY SWITCH
 - FOUR WAY SWITCH
 - TWO WAY SWITCH WITH INDICATOR LIGHT
 - FURNACE EMERGENCY SWITCH
 - BELL
 - BELL SWITCH
 - 150 AMP SERVICE PANEL
 - HOME RUN
 - ELECTRIC RECESSED WALL HEATER FAN FORCED 120 V 1500 W

REVISIONS		
3 / 18 / 2015	JVD	
5 / 9 / 2015	JVD	
5 / 16 / 2016	JVD	
6 / 2 / 2017	JVD	

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

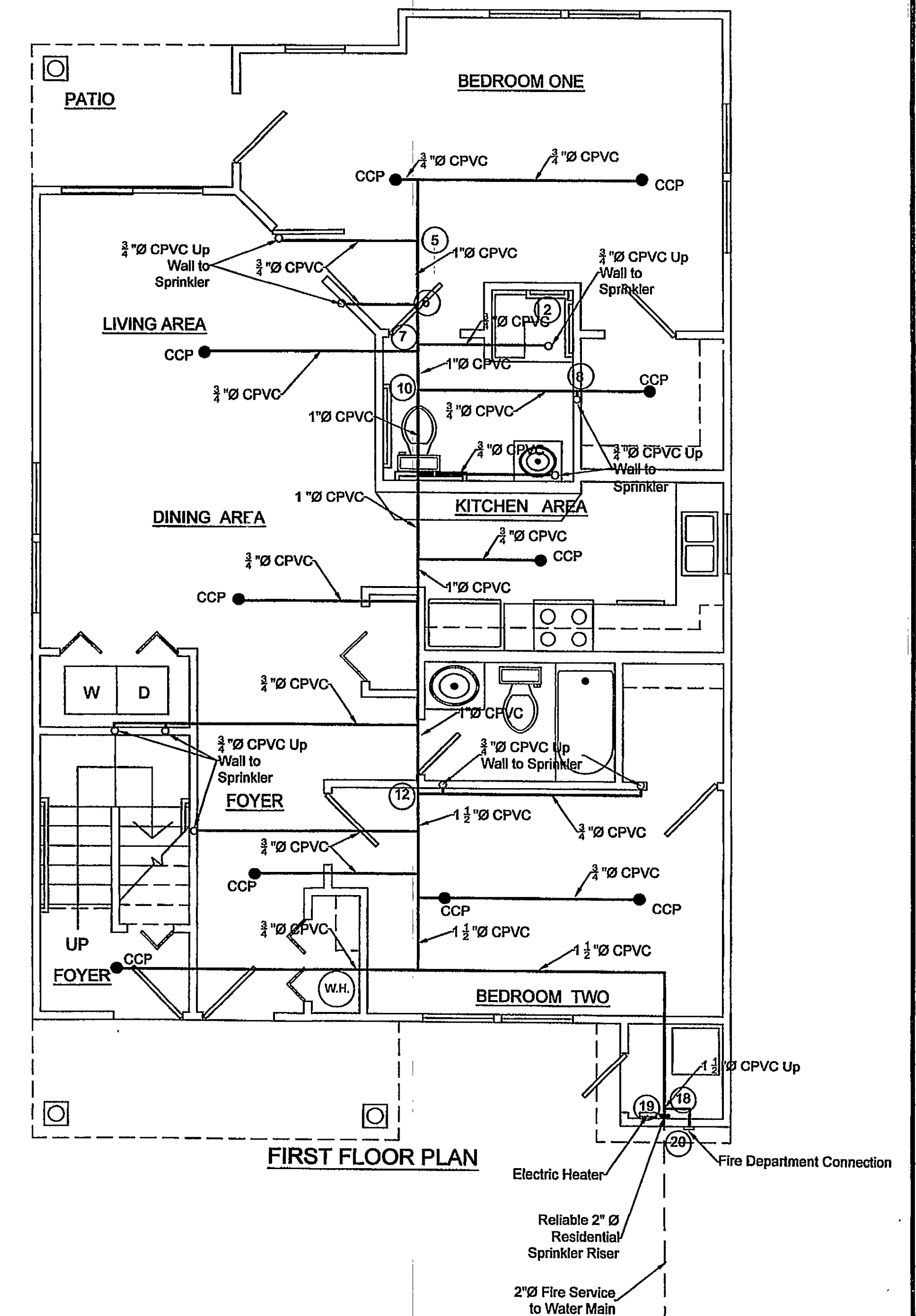
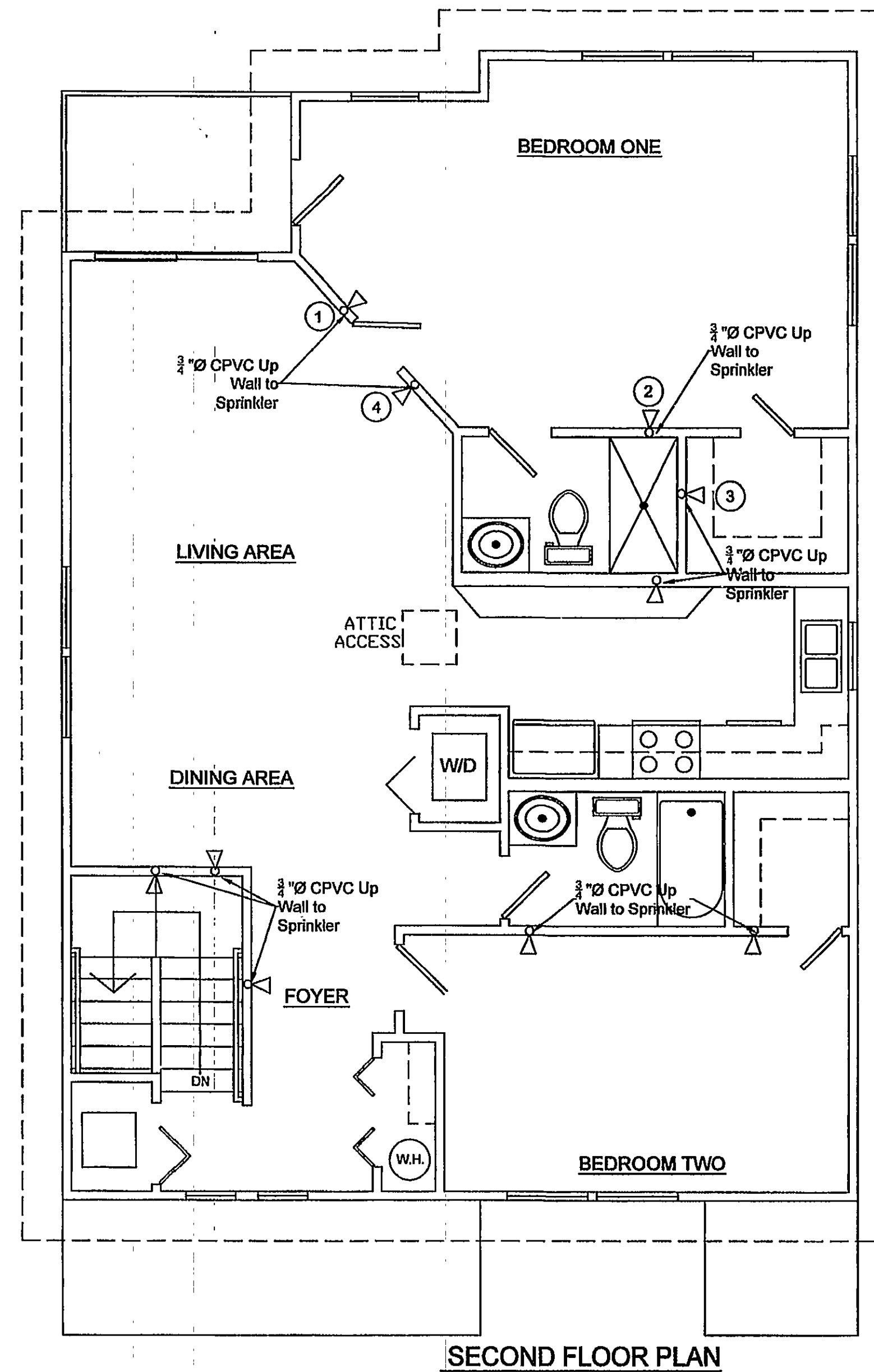
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RIVERHEAD, N.Y. 11901
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SCALE AS NOTED
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E-5
CONTRACT NO. CDA 2017-100

Fire Sprinkler System Specifications

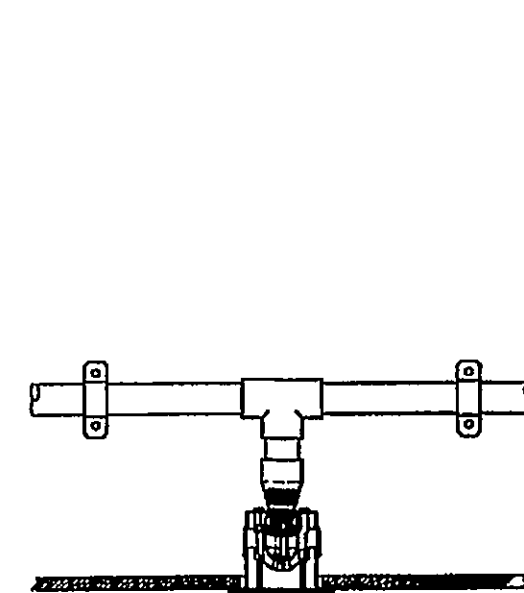
Fire Suppression System Scope of Work - Furnish all materials and labor required for a proper and complete installation of the fire sprinkler suppression system and related work including but not limited to: sawcutting, pipe, pipe hangers, supports, bracing, heads, signage, valves, fittings, testing, inspections & cleanup. The fire sprinkler contractor shall be licensed in Suffolk County with the Fire Marshal's Office.

2. **General** - Construction shall conform to the most current editions of the building code & fire code of New York State, NFPA 13R, National Electric Code, local zoning ordinances and fire marshal office. Contractor shall comply with all provisions, requirements, regulations and directions as outlined in the latest OSHA requirements.
3. **Fire Sprinkler System** - The following conditions shall apply specifically to the contractor and his fire protection licensed subcontractor.
 - a. The contractor shall furnish and install all items whatsoever that may be necessary to complete a working and finished fire protection system of the character and type specified.
 - b. All work must be in accordance with the requirements of the owner's insurance company, and shall comply with the latest edition of NFPA 13R, all local ordinances, the New York State Fire Code, and the local Fire Marshal's office. The plans and specifications shall be used as an outline only. This contractor shall be responsible to obtain written approval of the complete installation from the local fire marshal. In addition, all work must meet with the engineer's approval.
 - c. Work in this section includes, but is not limited to, providing all the following material, equipment, products and labor for a complete and approved sprinkler system:
 1. Installation of new sprinkler cross main and branch lines
 2. Installation of new sprinkler heads
 3. Any and all items, appurtenances, etc. necessary to hang, support, anchor, brace, etc. equipment furnished under this contract
 4. One year warranty
 5. Testing
 - d. The contractor shall be responsible for submitting all required hydraulic calculations, plans, documentation, applications, fees and payments etc. for obtaining a fire sprinkler permit from the local Fire Marshal's office.
 - e. Install horizontal piping pitched to low points and in a manner to make it possible to test and empty the entire system; provide valves and piping of sizes and in locations as indicated by and in accordance with the requirements of NFPA 13R.
 - f. Coordinate routing of cross main and branch piping with existing ductwork, piping, lighting, insulation batting, etc. in existing ceiling. Offset routing of piping as required to avoid all existing conflicts.
 - g. Ream and remove burrs carefully at thread pipe cuts. Use one-piece continuous length pipe between sprinklers avoiding the use of couplings except where absolutely necessary.
 - h. Screw joints shall be made up with pipe paste applied to male threads only. Ream pipe as necessary to make bore at end of the pipe the same as the inside diameter of the pipe.
- i. **Materials:**
 1. Sprinkler system piping and fittings: Piping to sprinklers for first and second floor spaces are to be CPVC pipe with continuous service of 175psi at 150°F and meet an HDB of 1250 psi at 180° F and fittings meet HDB of 1000 psi at 180° F
 2. Reducers: reductions in pipe sizes shall be made with one piece reducing fittings. Bushings will not be acceptable.
 3. Sprinkler Heads: sprinkler heads shall be Underwriters' approved and listed for use intended (pendant, flush, upright or sidewall type) installed as indicated on the drawings. all piping for concealed and recessed heads shall be concealed or run above the ceiling. head, fusible solder link type, or glass bulb type, temperature rated for specific area hazard. Sprinkler heads for the first spaces are to be Reliable Model RFC 49 LL with a 'K' factor of 4.9 and sprinkler heads for the second floor spaces are to be Reliable Model F1 Res 44 Recessed HSW/F2 with a 'K' factor of 44.
 4. Hangers and supports: hanger rods shall be hung from structural members with suitable clips or beam clamps as necessary. piping shall not be supported from lighting, ductwork, other piping or equipment. all hangers shall be plumb. hangers and supports shall be UL approved and shall comply with NFPA standards and owner's insurance requirements as to size, type and spacing. Manufacturer: clevis type and roller type hangers shall be hot dipped galvanized as manufactured by ITT Grinnell co., Central Iron, Leifried, or equal.
 5. Unions: couplings and unions shall not be used except where pipe is more than 20' in length between fittings. screwed unions shall not be used on pipe larger than 2". Coupling and unions of other than screwed type shall be of the types approved specifically for use in sprinkler systems.
 6. Signs and charts: store and save existing inspector's test sign for re-installation by this contractor.
- j. **Inspections and Testing**
 1. After installation is complete, but before the piping is furred in or covered over, the contractor shall provide instruments and equipment, secure, perform and pay for all tests necessary to produce satisfactory evidence of the correctness of the installation and acceptance thereof by the local fire marshal.
 2. All new piping and equipment shall be hydrostatically tested as per NFPA 13.

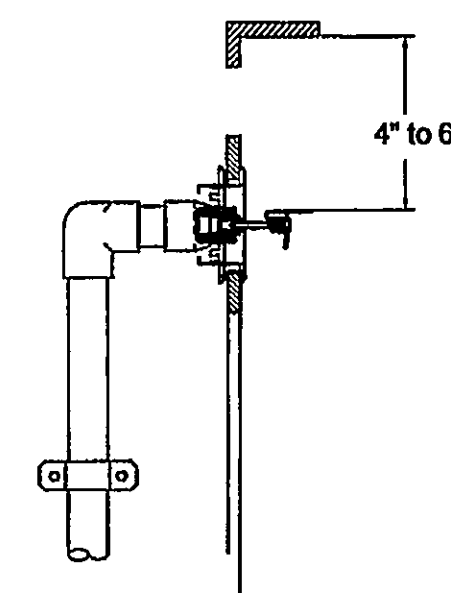


Legend

- CCP - Concealed Ceiling Pendant Sprinkler- Reliable RFC 49 LL
- ◁ - Recessed Side Wall Sprinkler- Reliable F1 Res 44
- ⊙ - Node Identification used in Hydraulic Calculations

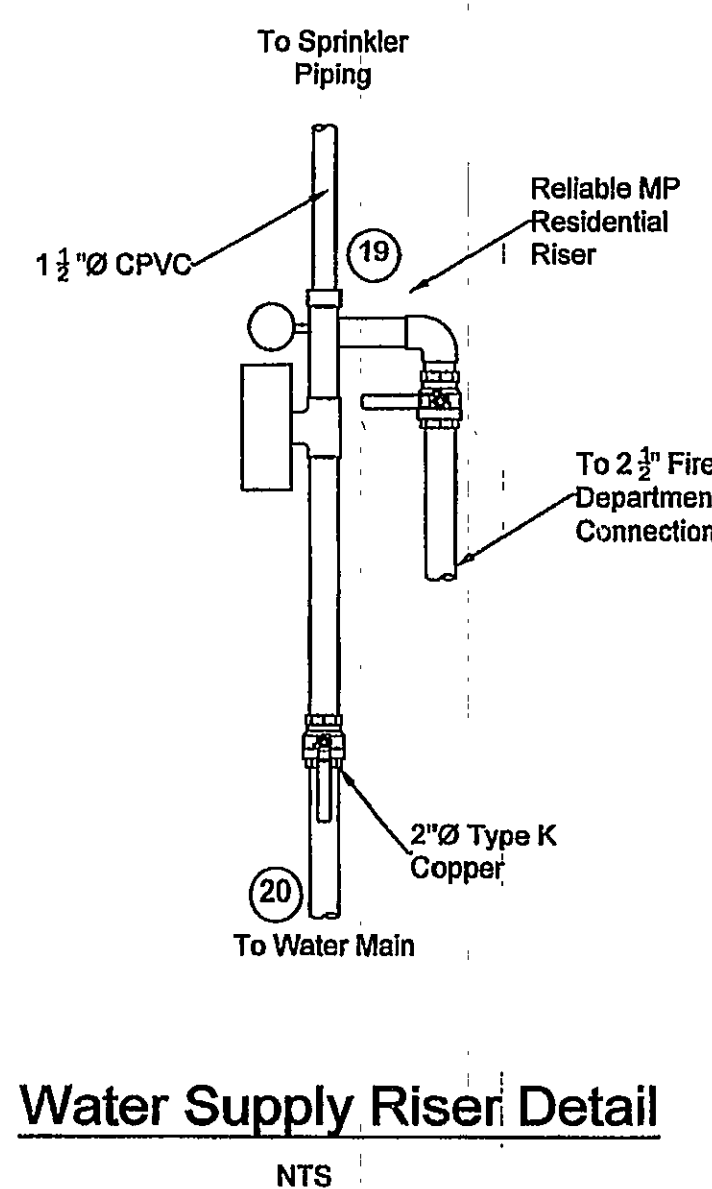


**Reliable Model RFC 49 LL
Sprinkler**
K=4.9
Scale = NTS



**Reliable Model F1 Res 44
Recessed HSW/F2
Sprinkler**
K=4.4
Scale = NTS

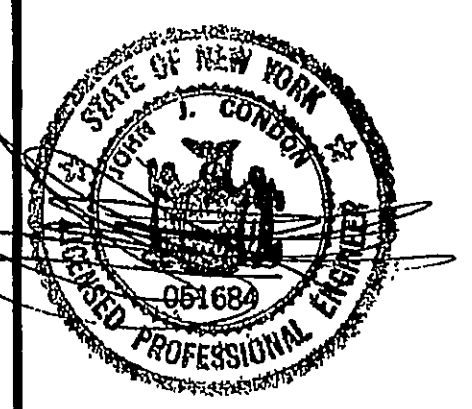
Two Unit Building A



Sprinkler Design Data	
* Hydrant Test Data	
- Date of Flow Test	- 9-11-2014
- Hydrant Location	- Railroad Avenue 2nd
- Hydrant #	- 430072000
- Static Pressure	- 80
- Residual Pressure	- 52
- Flow	- 1,975
- Peak Adjusted Static	- 49
Sprinkler Design Pressures :	
- Static Pressure	- 49
- Residual Pressure	- 32
Light Hazard	
- Density	- 0.125 gpm/ft² - NFPA 13R

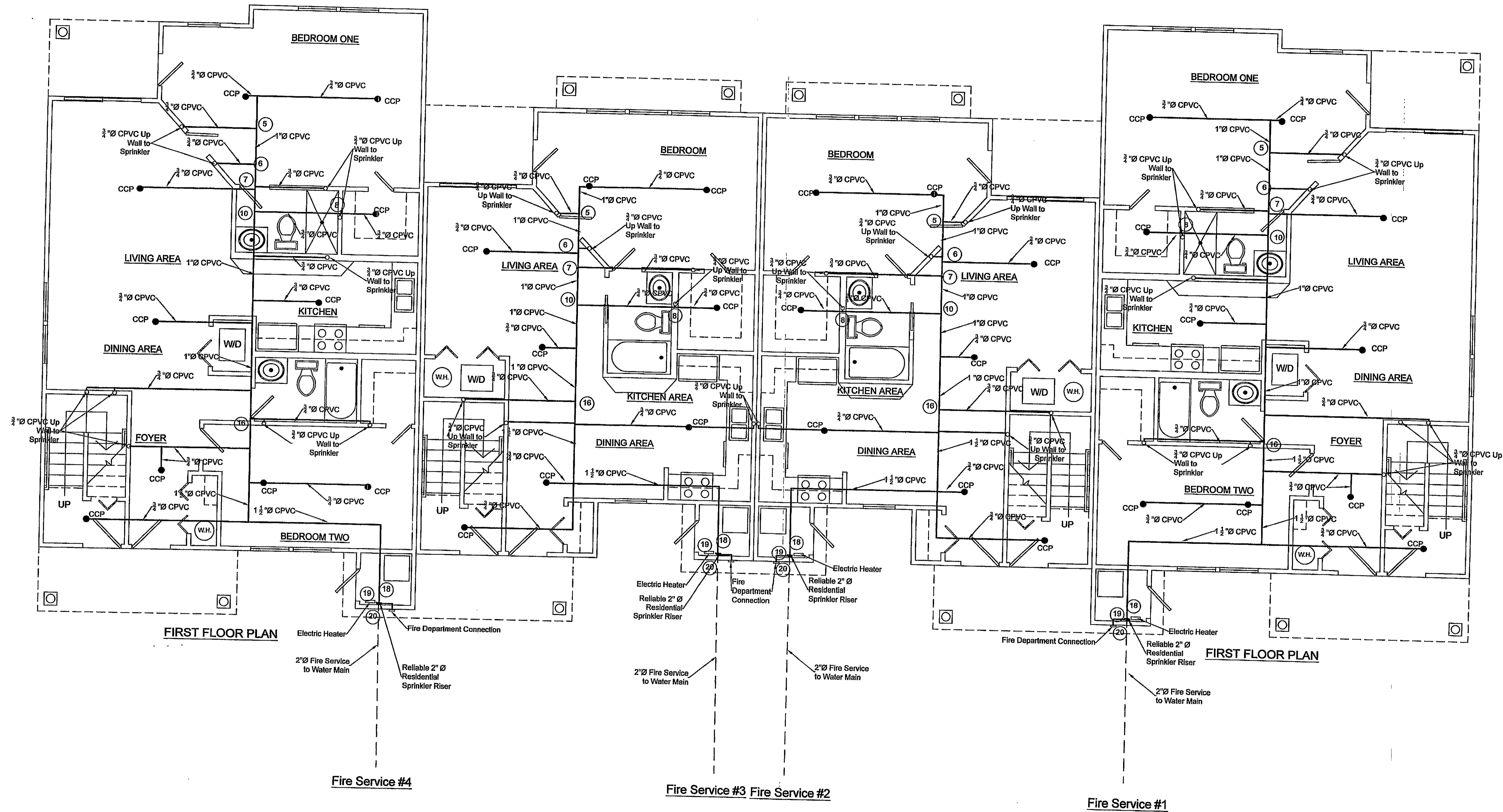
Fire Service #1

CDA CONTRACT 2017-100



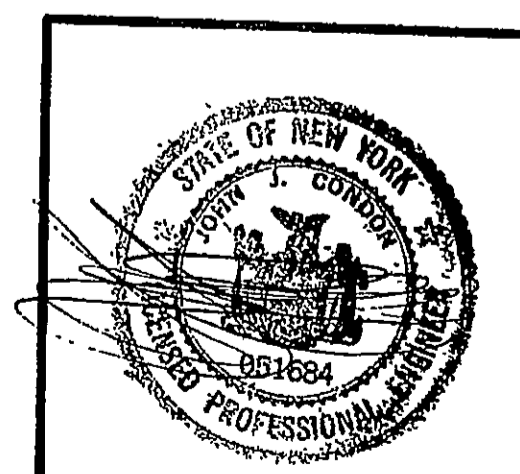
Scale: 1/4" = 1'-0"	Condon Engineering, P.C. 1755 Sigsbee Road Mattituck, New York 11952 (631) 298-1986	Columbia Street Condominiums Huntington Station, New York	FS-1
Drawn by: JJC			
Date: 12-2-2014			

Plans are prepared by Condon Engineering, P.C. It is a violation of the New York State Education Law, Article 145, Section 7209, for any person unless acting under the direction of a licensed Professional Engineer, Architect, or Land Surveyor, to alter any item in any way, if an item bearing the seal of an Engineer, Architect, or Land Surveyor is altered, the altering Engineer, Architect, or Land Surveyor shall affix to the item his/her seal and the notation "Altered by" followed by his/her signature and the date of such alterations, and a specific description of the alteration.



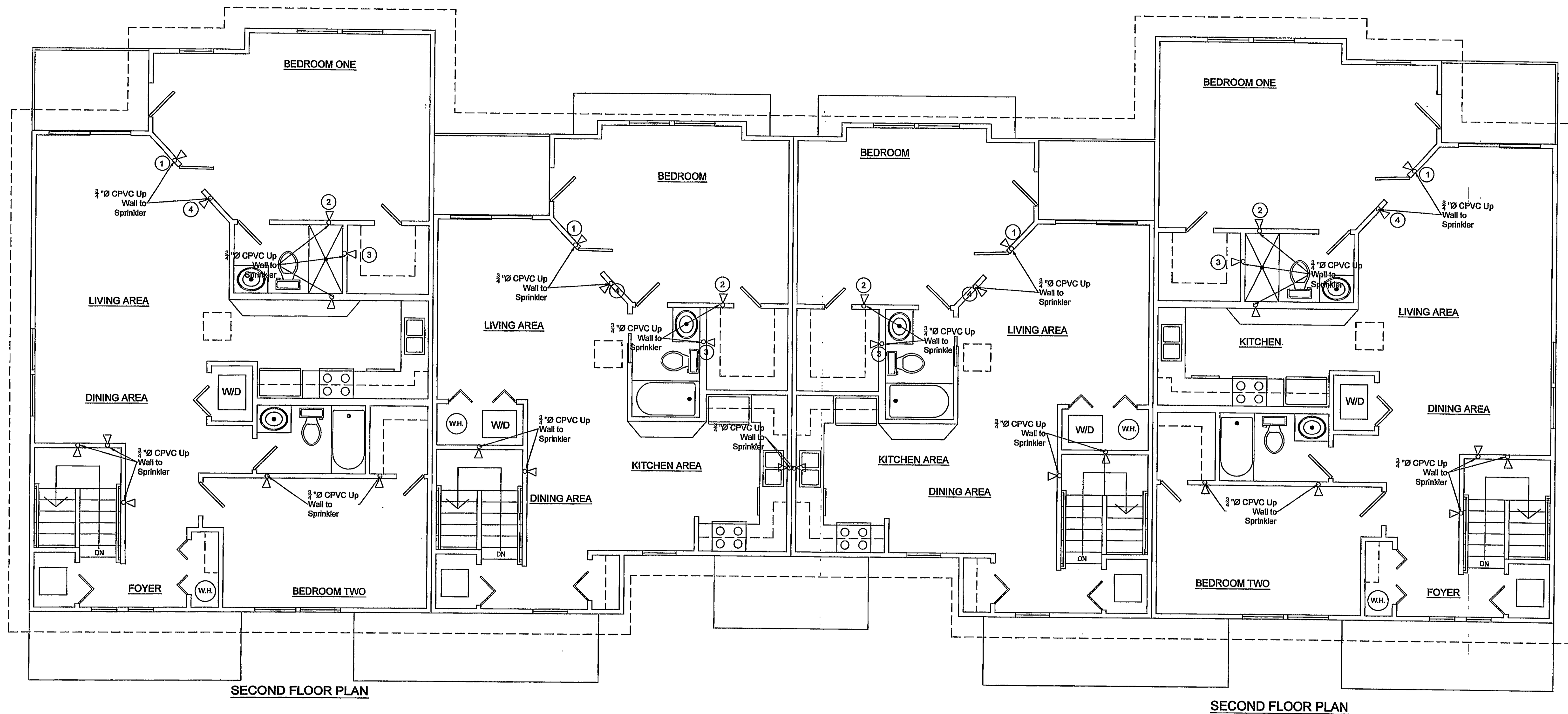
Eight Unit Building B

CDA CONTRACT 2017-100



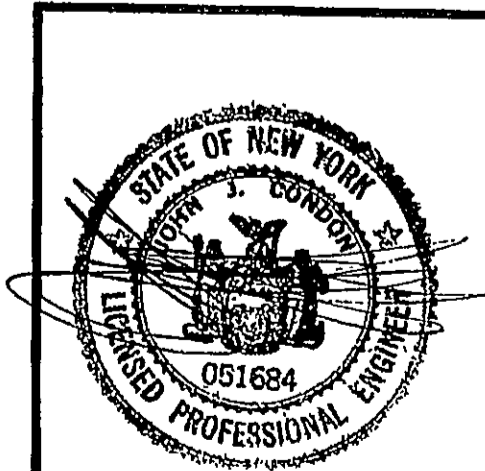
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Scale: 1/4" = 1'-0"	Condon Engineering, P.C. 1755 Sigsbee Road Mattituck, New York 11952 (631) 298-1986	Columbia Street Condominiums Huntington Station, New York	FS-2
Drawn by: JJC			
Date: 12-2-2014			



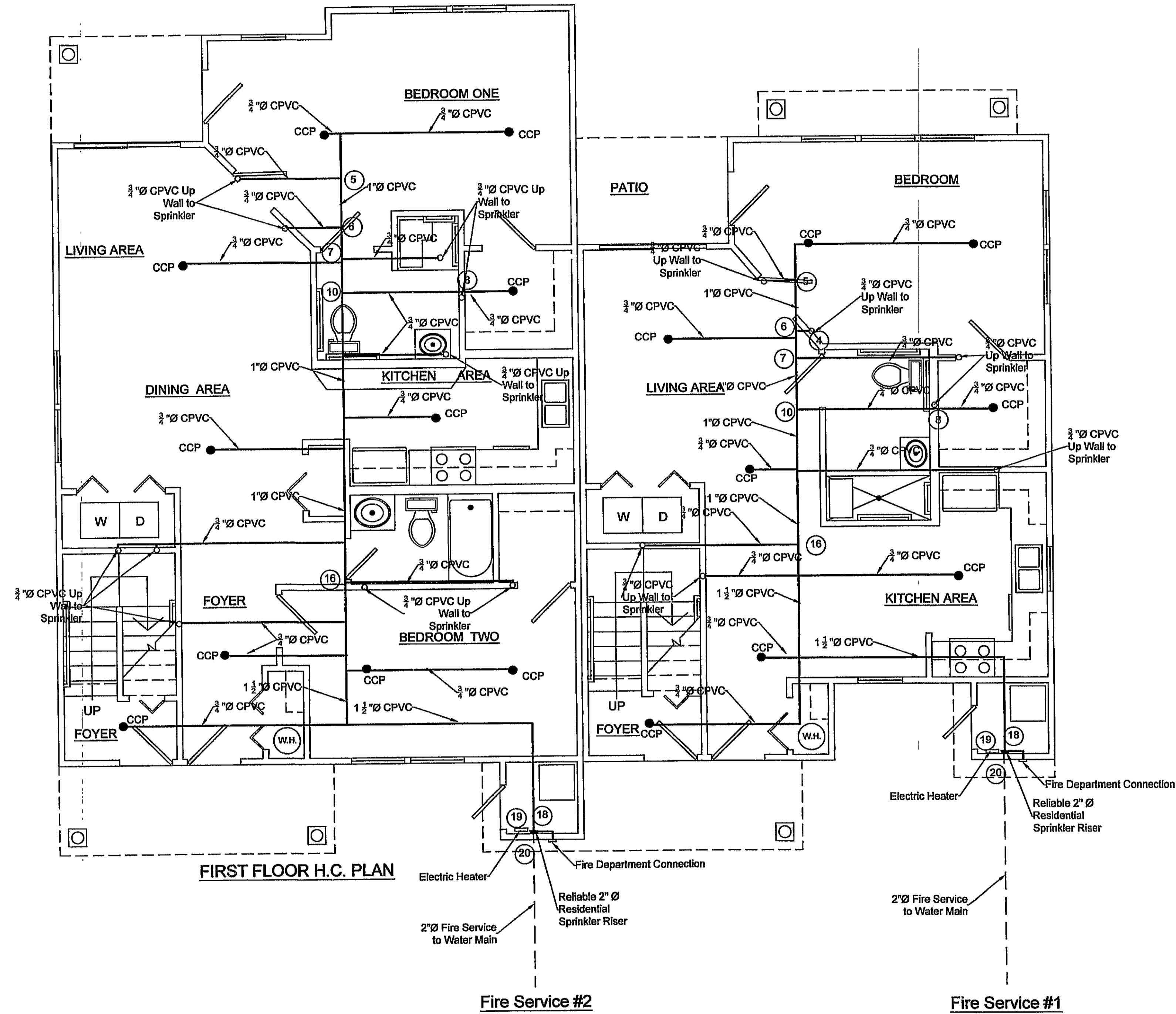
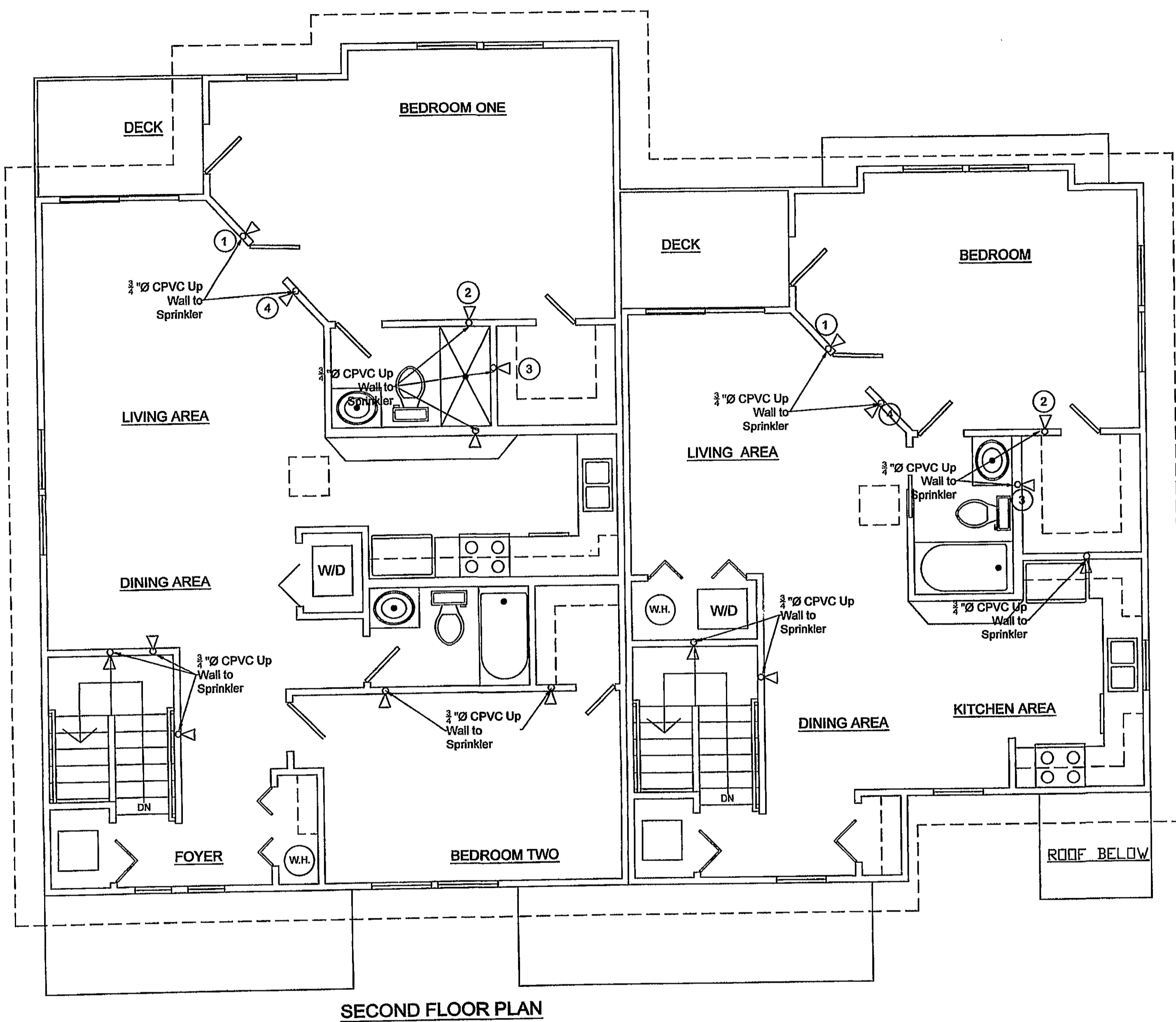
Eight Unit Building B

CDA CONTRACT 2017-100



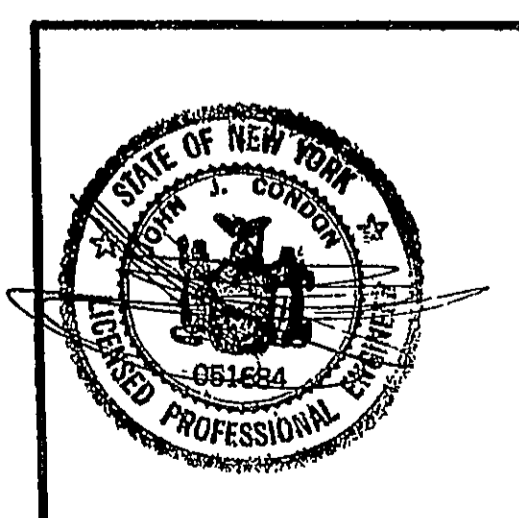
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Scale: 1/4" = 1'-0"	Condon Engineering, P.C. 1755 Sigsbee Road Mattituck, New York 11952 (631) 298-1986	Columbia Street Condominiums Huntington Station, New York	FS-3
Drawn by : JJC			
Date :12-2-2014			



Four Unit Building C

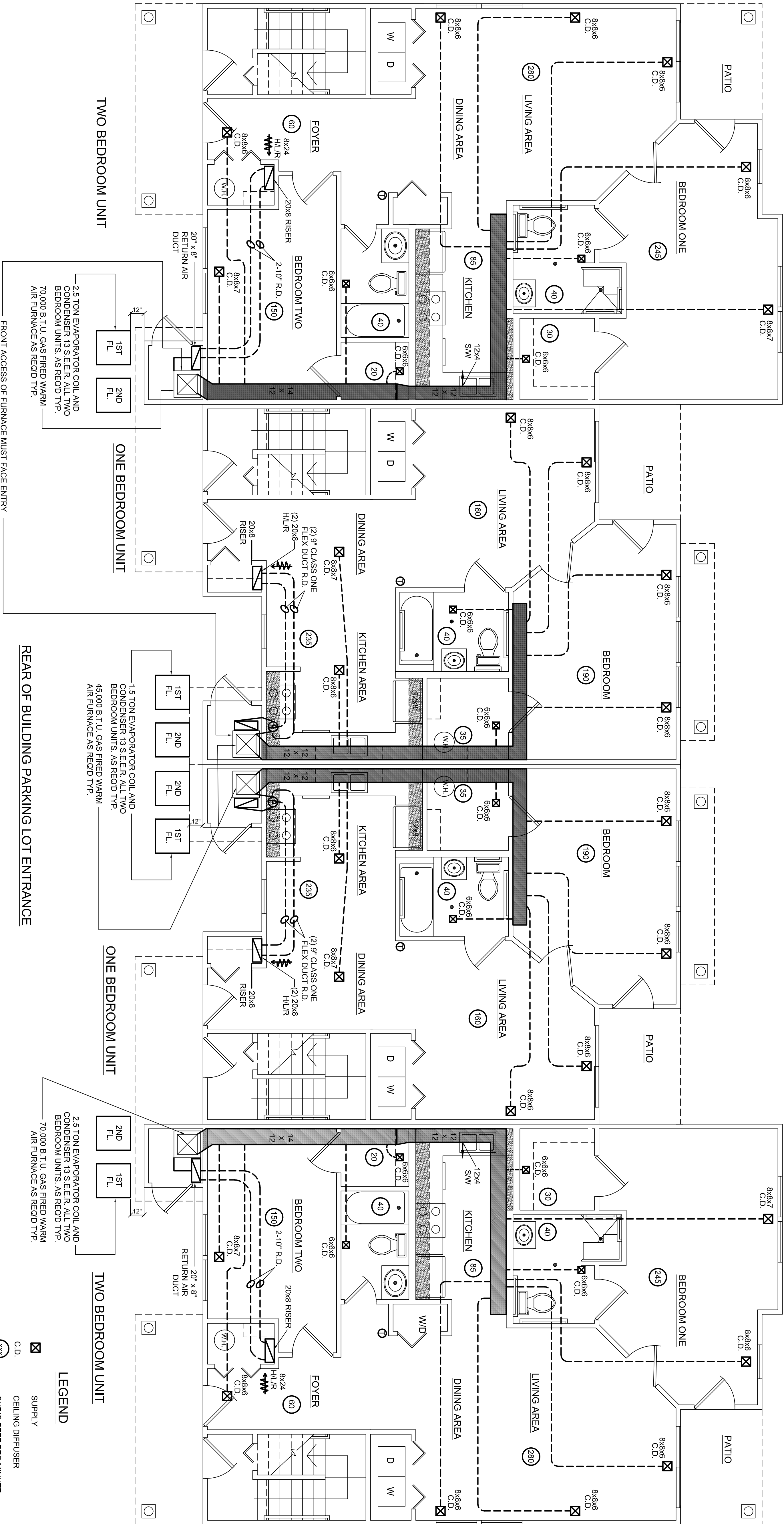
CDA CONTRACT 2017-100



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Scale: 1/4" = 1'-0"	Condon Engineering, P.C. 1755 Sigsbee Road Mattituck, New York 11952 (631) 298-1986	Columbia Street Condominiums Huntington Station, New York	FS-4
Drawn by: JJC			
Date: 12-2-2014			

FRONT OF BUILDING STREET ENTRANCE



FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING, TYP.

ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT, TYP.

REAR OF BUILDING PARKING LOT ENTRANCE

EIGHT UNIT BUILDING
FIRST FLOOR H.C. HVAC PLAN
SCALE: 1/4"=1'-0"

NOTES:
 -...of ceiling, a 24" front clearance is required.
 -...unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum.
 -...in all cases, accessibility clearances must take precedence over clearances from the enclosure where accessibility clearances are greater.

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Horizontal	6"	6"	6"	3"	0"	6"
Vertical	0"	0"	3"	0"	0"	6"

C = If placed on combustible floor, floor MUST be wood only.
 C = If placed on non-combustible floor, floor MUST be wood only.
 NC = Must be used for installations on combustible flooring.

LEGEND

- SUPPLY
- CEILING DIFFUSER
- CUBIC FEET PER MINUTE
- RIGID DUCT
- FLEXIBLE DUCT
- THERMOSTAT
- RETURN
- SQUARE TO ROUND
- CEILING RETURN
- HIGH LOW RETURN
- SIDE WALL SUPPLY
- SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- KITCHEN CABINET SOFFIT ONLY

REVISIONS	DATE	BY
	3 / 18 / 2015	JVD
	5 / 9 / 2015	JVD
	5 / 16 / 2016	JVD
	6 / 2 / 2017	JVD

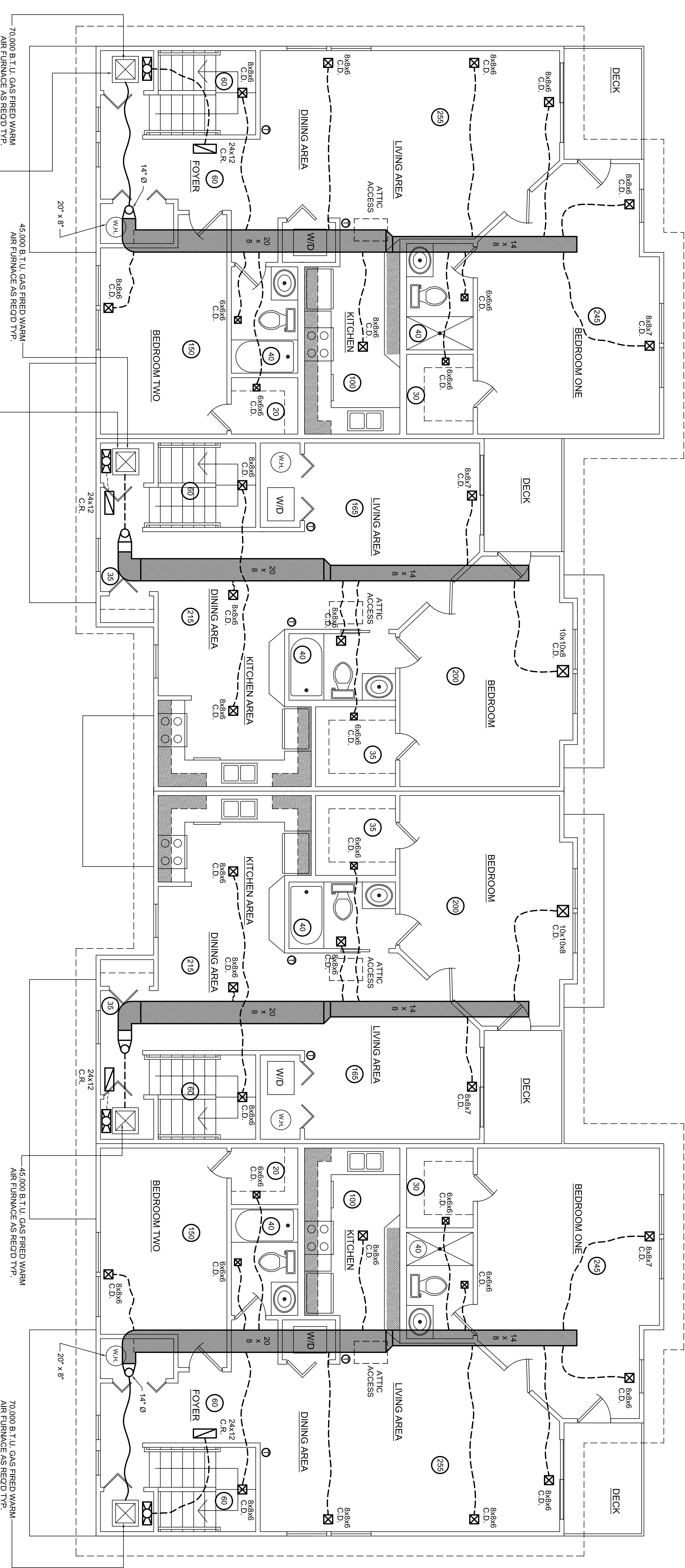
COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

JAMES V. DE LUCCA, R.A.
12 LINDA LANE EAST
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(631) 727-1611

DESIGNED: J.V.D.
 DRAWN: L.K.E.
 DATE: 6 / 3 / 2014
 SCALE: AS NOTED
 JOB NO. COLUMBIA STREET

H-1
 CONTRACT NO. CDA 2017-100

FRONT OF BUILDING STREET ENTRANCE



TWO BEDROOM UNIT

ONE BEDROOM UNIT

ONE BEDROOM UNIT

TWO BEDROOM UNIT

LEGEND

- ☒ SUPPLY
- ☒ C.D.
- ☒ CUBIC FEET PER MINUTE
- RIGID DUCT
- FLEXIBLE DUCT
- THERMOSTAT
- RETURN
- SQUARE TO ROUND
- CEILING RETURN
- HIGH LOW RETURN
- SIDE WALL SUPPLY
- ☒ SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- ☒ KITCHEN CABINET SOFFIT ONLY

REAR OF BUILDING PARKING LOT ENTRANCE

**EIGHT UNIT BUILDING
SECOND FLOOR HVAC PLAN
SCALE: 1/4"=1'-0"**

FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.

ALL FURNACES ARE PROVIDED WITH DIRECT VENTILE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.

CLEARANCES AND ACCESSIBILITY

- NOTES:
 - ...Sizing or clearing a 24" from clearance is required.
 - ...Unit connections (electrical, flue and drain) may not be made in the same space as the furnace.
 - ...Clearances shall be maintained at all times.
 - ...In all cases, accessibility distance must take precedence over clearance from the enclosure where accessibility distances are given.

"SSS" & "SS" MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)	
POSITION	SIZES
Horizontal	6"
Vertical	6"
Horizontal	6"
Vertical	6"
Horizontal	6"
Vertical	6"
Horizontal	6"
Vertical	6"

C = If placed on combustible floor, floor MUST be wood only. No other materials are allowed.

NC = Must be used for installations on combustible flooring.

**COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK**

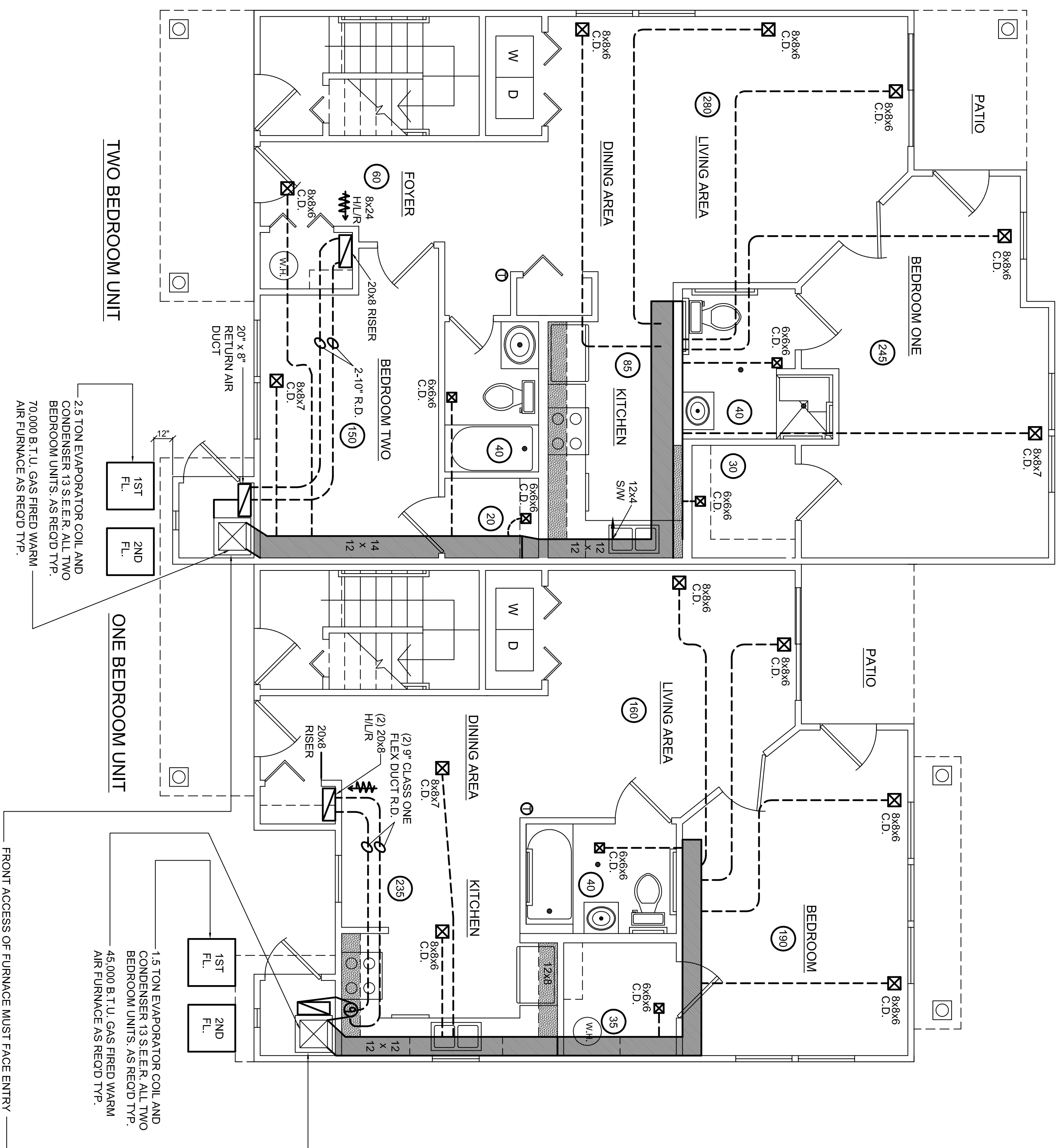
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JOB NO.	COLUMBIA STREET
CONTRACT NO.	H-2
	CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



FOUR UNIT BUILDING
FIRST FLOOR H.C. HVAC PLAN
SCALE: 1/4" = 1'-0"

REAR OF BUILDING PARKING LOT ENTRANCE

CLEARANCES AND ACCESSIBILITY
NOTES:
...not including at clearing, a 24" front clearance is required.
...Unit connections (electrical, line and drain) may necessitate greater clearances than the minimum.
...In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT, TYP.

FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING, TYP.

1.5 TON EVAPORATOR COIL AND CONDENSER 13 S.E.E.R. ALL TWO BEDROOM UNITS. AS RECD TYP. 45,000 B.T.U. GAS FIRED WARM AIR FURNACE AS RECD TYP.

2.5 TON EVAPORATOR COIL AND CONDENSER 13 S.E.E.R. ALL TWO BEDROOM UNITS. AS RECD TYP. 70,000 B.T.U. GAS FIRED WARM AIR FURNACE AS RECD TYP.

LEGEND

- ☒ SUPPLY
- ☒ CEILING DIFFUSER
- ☒ CUBIC FEET PER MINUTE
- ☒ RIGID DUCT
- FLEXIBLE DUCT
- THERMOSTAT
- RETURN
- SQUARE TO ROUND
- CEILING RETURN
- HIGH LOW RETURN
- SIDE WALL SUPPLY
- ▨ SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- ▨ KITCHEN CABINET SOFFIT ONLY

PASSAGE & 90° MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS	
POSITION*	SIZES REAR FRONT BOTTOM FLUE TOP
Horizontal	6" 6" 6" 6" 6" 6"
Vertical	6" 6" 6" 6" 6" 6"

CSIZES & 90° MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)	
POSITION*	SIZES REAR FRONT BOTTOM FLUE TOP
Horizontal	6" 6" 6" 6" 6" 6"
Vertical	6" 6" 6" 6" 6" 6"

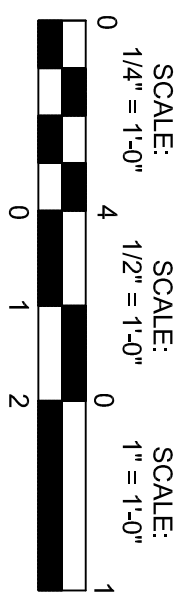
* C = If placed on combustible floor, floor MUST be wood only. Possible subbase must be used for installations on combustible flooring.

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

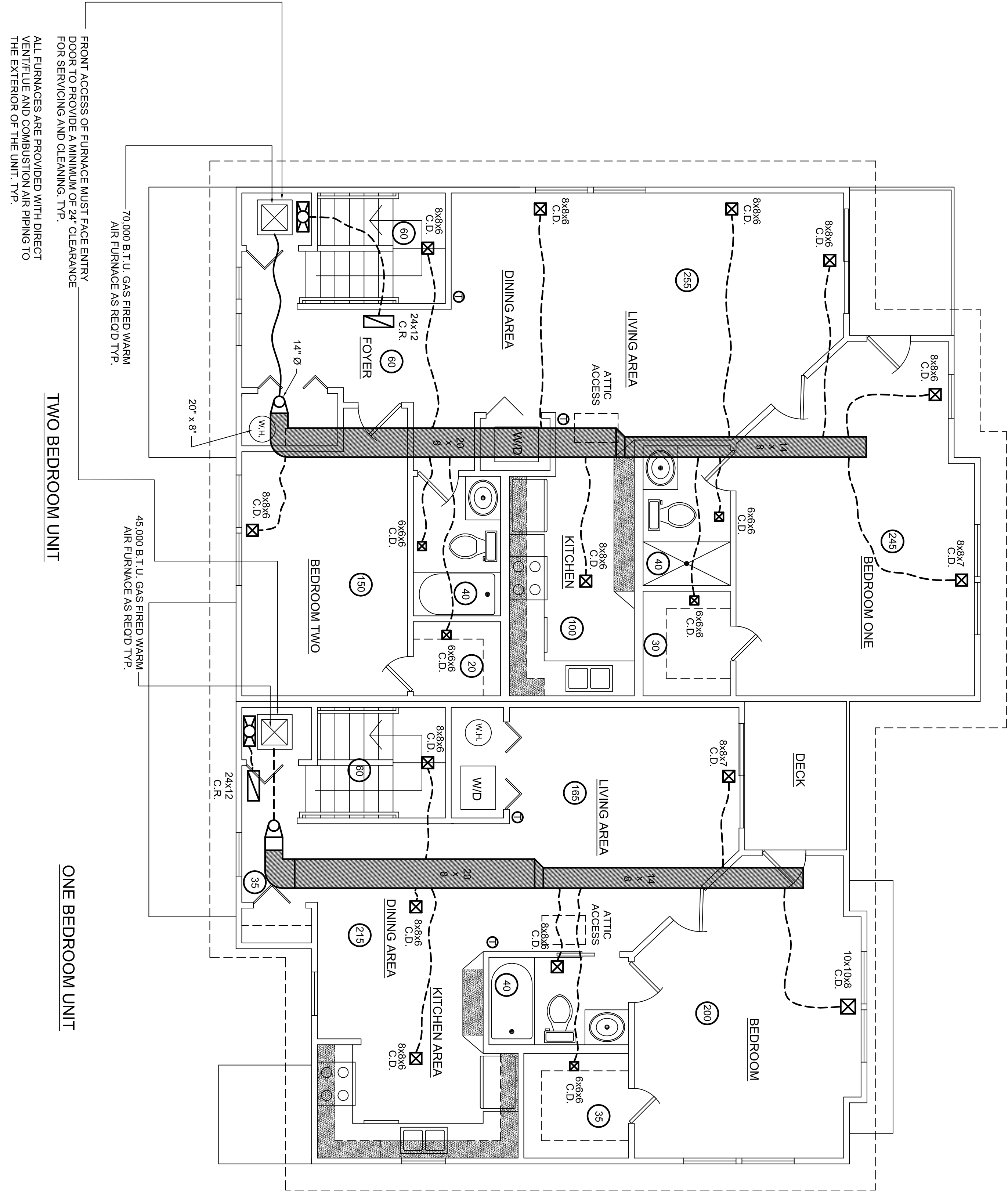
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REVISIONS	DATE	BY
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6 / 2 / 2017	JVD	

DESIGNED J.V.D.
DRAWN L.K.E.
DATE 6 / 3 / 2014
SCALE AS NOTED
JOB NO. COLUMBIA STREET
H-3
CONTRACT NO. CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.
ALL FURNACES ARE PROVIDED WITH DIRECT VENT/FLUE AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.

TWO BEDROOM UNIT

ONE BEDROOM UNIT

REAR OF BUILDING PARKING LOT ENTRANCE

CLEARANCES AND ACCESSIBILITY
NOTES:
...for saving or clearing, a 24" front clearance is required.
...Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum.
...In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION	SIZES			POSITION	SIZES		
	REAR	FRONT	BOTTOM		REAR	FRONT	BOTTOM
Horizontal	0"	0"	0"	Horizontal	0"	0"	0"
C = If placed on combustible floor, floor MUST be wood only.				C = If placed on combustible floor, floor MUST be wood only.			

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)

POSITION	SIZES			POSITION	SIZES		
	REAR	FRONT	BOTTOM		REAR	FRONT	BOTTOM
Horizontal	0"	0"	0"	Horizontal	0"	0"	0"
C = If placed on combustible floor, floor MUST be wood only.				C = If placed on combustible floor, floor MUST be wood only.			

FOUR UNIT BUILDING
SECOND FLOOR HVAC PLAN
SCALE: 1/4"=1'-0"

LEGEND

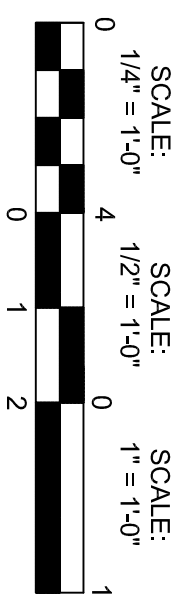
- SUPPLY
- CEILING DIFFUSER
- CUBIC FEET PER MINUTE
- RIGID DUCT
- FLEXIBLE DUCT
- THERMOSTAT
- RETURN
- SQUARE TO ROUND
- CEILING RETURN
- HIGH LOW RETURN
- SIDE WALL SUPPLY
- SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- KITCHEN CABINET SOFFIT ONLY

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

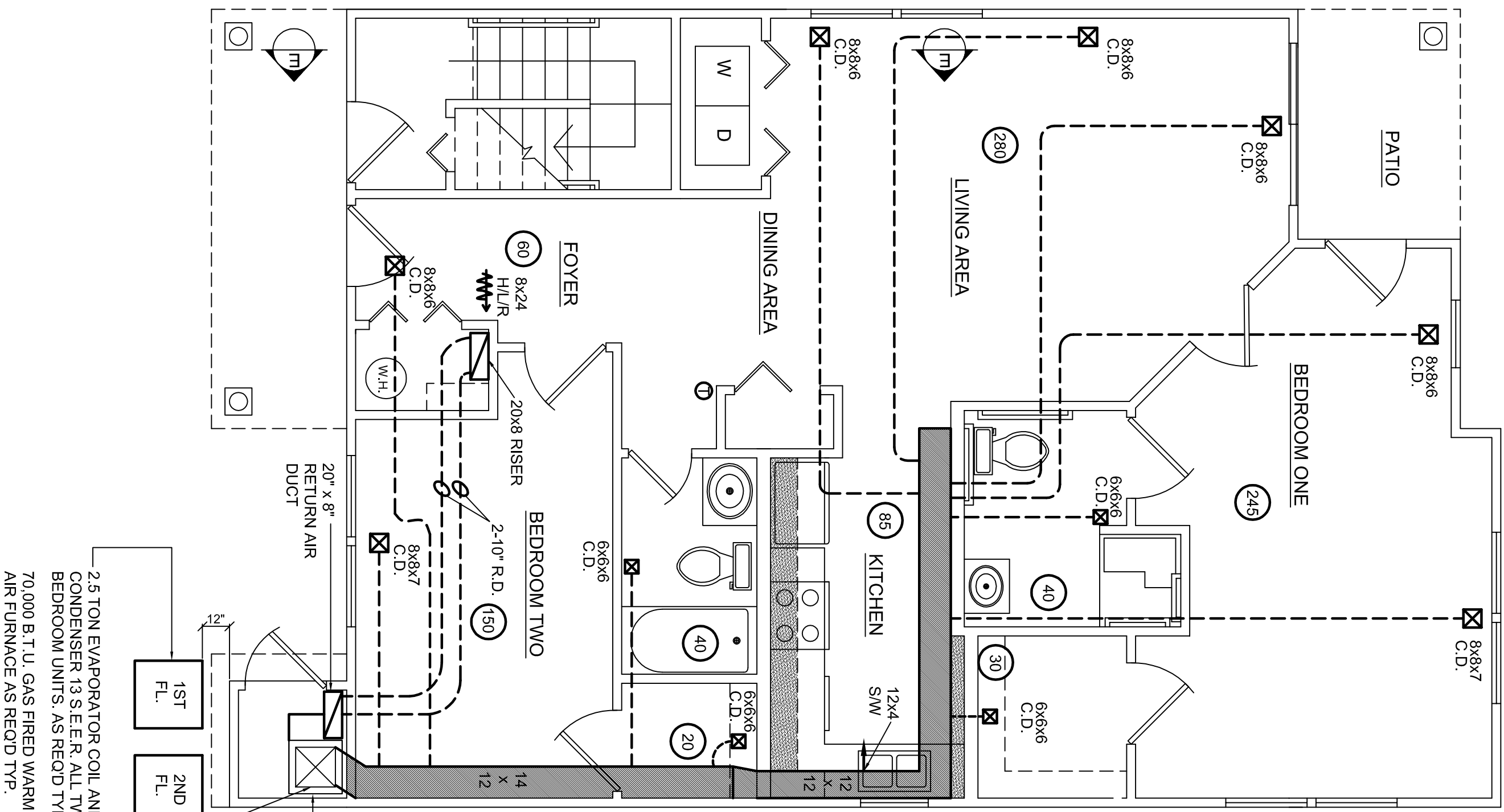
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REVISIONS	DATE	BY
	3 / 18 / 2015	JVD
	5 / 9 / 2015	JVD
	5 / 16 / 2016	JVD
	6 / 2 / 2017	JVD

DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6 / 3 / 2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET
CONTRACT NO.	H-4
	CDA 2017-100



FRONT OF BUILDING STREET ENTRANCE



REAR OF BUILDING PARKING LOT ENTRANCE

TWO UNIT BUILDING
FIRST FLOOR H.C. HVAC PLAN
SCALE: 1/4" = 1'-0"

CLEARANCES AND ACCESSIBILITY
 ...For servicing or cleaning, a 24" front clearance is required.
 ...Units shall be identified (blue and white) from the front of the unit.
 ...Units shall be identified (blue and white) from the front of the unit.
 ...In all cases, accessibility clearance must take where accessibility clearances are greater.

2.5 TON EVAPORATOR COIL AND CONDENSERS 13 S.E.E.R. ALL TWO BEDROOM UNITS. AS REQD TYP.
 70,000 B.T.U. GAS FIRED WARM AIR FURNACE AS REQD TYP.

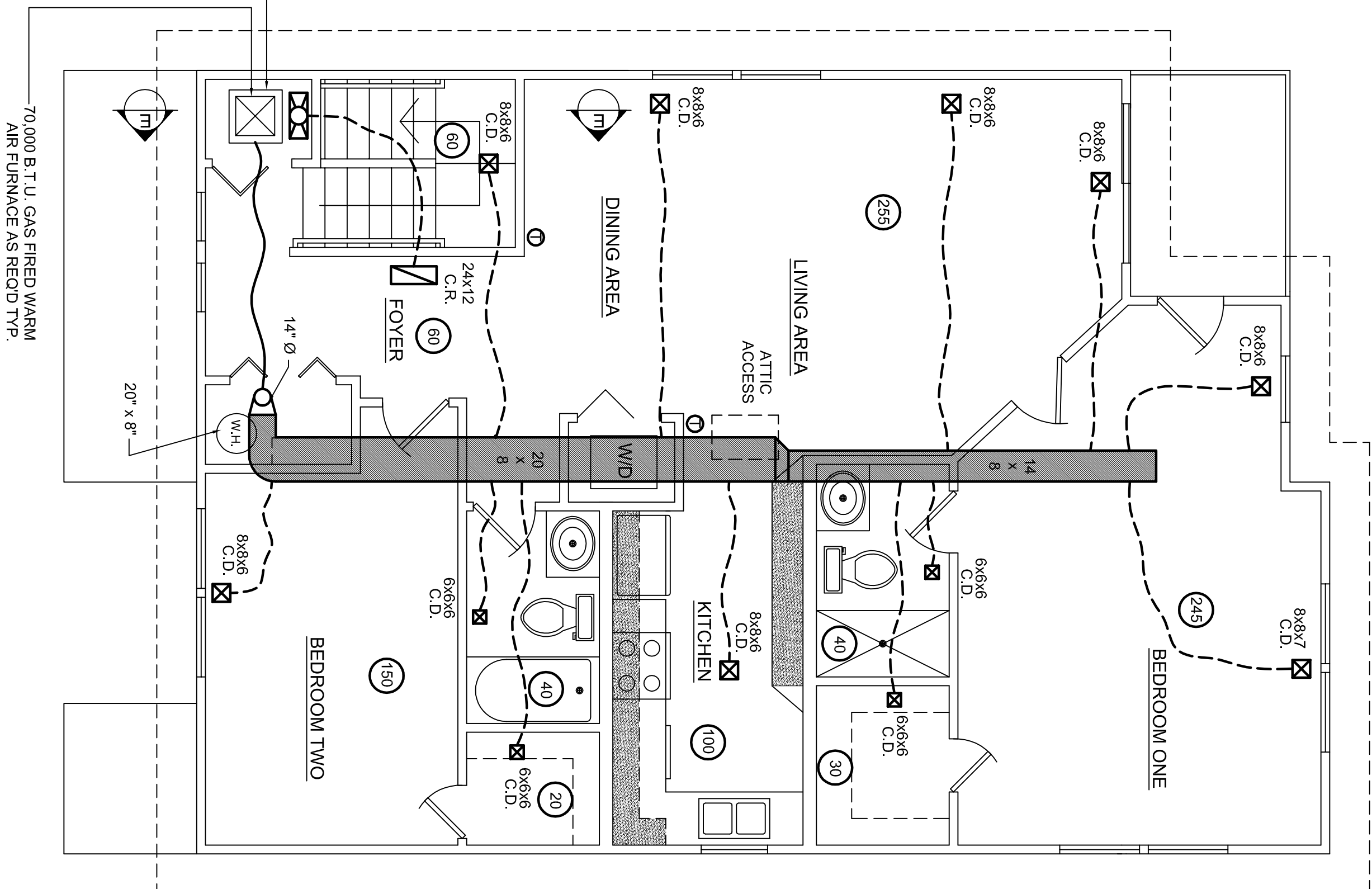
FRONT ACCESS OF FURNACE MUST FACE ENTRY DOOR TO PROVIDE A MINIMUM OF 24" CLEARANCE FOR SERVICING AND CLEANING. TYP.
 ALL FURNACES ARE PROVIDED WITH DIRECT VENTILATION AND COMBUSTION AIR PIPING TO THE EXTERIOR OF THE UNIT. TYP.

*MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)						
POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Horizontal	6"	0"	3"	0"	0"	1"
C = If placed on combustible floor, floor MUST be wood only.	6"	0"	3"	C	C	6"

*SSIZ & 90° MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)						
POSITION*	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Horizontal	6"	0"	3"	0"	0"	1"
C = If placed on combustible floor, floor MUST be wood only.	6"	0"	3"	NC	0"	6"

NC = For installation on non-combustible floors only. A combustible subbase must be used for installations on combustible flooring.

FRONT OF BUILDING STREET ENTRANCE



REAR OF BUILDING PARKING LOT ENTRANCE

TWO UNIT BUILDING
SECOND FLOOR HVAC PLAN
SCALE: 1/4" = 1'-0"

70,000 B.T.U. GAS FIRED WARM AIR FURNACE AS REQD TYP.

LEGEND

- ☒ SUPPLY
- ☒ C.EILING DIFFUSER
- ☒ CUBIC FEET PER MINUTE
- RIGID DUCT
- - - FLEXIBLE DUCT
- ⊖ THERMOSTAT
- ⊖ RETURN
- ⊖ SQUARE TO ROUND
- ⊖ C.EILING RETURN
- ⊖ HIGH LOW RETURN
- ⊖ SIDE WALL SUPPLY
- ⊖ SOFFIT WITH HVAC SUPPLY DUCT ENCLOSED
- ⊖ KITCHEN CABINET SOFFIT ONLY

C.R. CEILING RETURN
 H.L.R. HIGH LOW RETURN
 S.W. SIDE WALL SUPPLY

REVISIONS	DATE	BY
3 / 18 / 2015	JVD	
5 / 9 / 2015	JVD	
5 / 16 / 2016	JVD	
6 / 2 / 2017	JVD	

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

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DESIGNED: J.V.D.
 DRAWN: L.K.E.
 DATE: 6 / 3 / 2014
 SCALE: AS NOTED
 JOB NO.: COLUMBIA STREET
H-5
 CONTRACT NO. CDA 2017-100

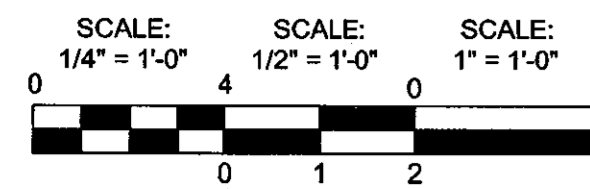


TABLE 702.3 BUILDING SEWER PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM D 2751; ASTM F 628
Asbestos-cement pipe	ASTM C 428
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Coextruded composite ABS DWV Schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite ABS DWV Schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC DWV Schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite PVC DWV Schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC DWV Schedule 40 IPS pipe (cellular core)	ASTM F 891; ASTM F 1488
Coextruded composite PVC IPS-DR, PS140, PS200, DWV	ASTM F 1488
Coextruded composite ABS sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM F 1488
Coextruded composite PVC sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM F 1488
Coextruded PVC sewer and drain PS25, PS50, PS100 (cellular core)	ASTM F 891
Concrete pipe	ASTM C14; ASTM C76; CSA A257.1M; CSA A257.2M
Copper or copper-alloy tubing (Type K or L)	ASTM B 75; ASTM B 88; ASTM B 251
Polyethylene (PE) plastic pipe (SDR-FR)	ASTM F 714
Polyvinyl chloride (PVC) plastic pipe (Type DWV, SDR26, SDR35, SDR41, PS50 or PS100)	ASTM D 2665; ASTM D 2949; ASTM D 3034; CSA B182.4
Stainless steel drainage systems, Types 304 and 316L	ASME A112.3.1
Vitrified clay pipe	ASTM C 4; ASTM C 700

TABLE 702.2 UNDERGROUND BUILDING DRAINAGE AND VENT PIPE

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM F 628; CSA B181.1
Asbestos-cement pipe	ASTM C 428
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Coextruded composite ABS DWV Schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite ABS DWV Schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite PVC DWV Schedule 40 IPS pipe (cellular core)	ASTM F 1488
Coextruded composite PVC DWV Schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC DWV Schedule 40 IPS pipe (cellular core)	ASTM F 891; ASTM F 1488
Coextruded composite PVC IPS-DR, PS140, PS200 DWV	ASTM F 1488
Copper or copper-alloy tubing (Type K, L, M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Polyolefin pipe	ASTM F 1412; CSA B181.3
Polyvinyl chloride (PVC) plastic pipe (Type DWV)	ASTM D 2665; ASTM D 2949; CSA B181.2
Stainless steel drainage systems, Type 316L	ASME A112.3.1

TABLE 702.4 PIPE FITTINGS

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 2661; ASTM D 3311; CSA B181.1
Cast iron	ASME B 16.4; ASME B 16.12; ASTM A 74; ASTM A 888; CISPI 301
Coextruded composite ABS DWV Schedule 40 IPS pipe (solid or cellular core)	ASTM D 2661; ASTM D 3311; ASTM F 628
Coextruded composite PVC DWV Schedule 40 IPS-DR, PS140, PS200 (solid or cellular core)	ASTM D 2665; ASTM D 3311; ASTM F 891
Coextruded composite ABS sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM D 2751
Coextruded composite PVC sewer and drain DR-PS in PS35, PS50, PS100, PS140, PS200	ASTM D 3034
Copper or copper alloy	ASME B 16.15; ASME B 16.18; ASME B 16.22; ASME B 16.23; ASME B 16.26; ASME B 16.29
Glass	ASTM C 1053
Gray iron and ductile iron	AWWA C 110
Malleable iron	ASME B 16.3
Polyolefin	ASTM F 1412; CSA B181.3
Polyvinyl chloride (PVC) plastic	ASTM D 2665; ASTM D 3311; ASTM F 1866
Stainless steel drainage systems, Types 304 and 316L	ASME A 112.3.1
Steel	ASME B 16.9; ASME B 16.11; ASME B 16.28

TABLE 709.1 DRAINAGE FIXTURE UNITS FOR FIXTURES AND GROUPS

FIXTURE TYPE	DRAINAGE FIXTURE UNIT VALUE AS LOAD FACTORS	MINIMUM SIZE OF TRAP (inches)
Automatic clothes washers, commercial ^a	3	2
Automatic clothes washers, residential ^a	2	2
Bathroom group as defined in Section 202 (1.6 gpf water closet) ^f	5	—
Bathroom group as defined in Section 202 (water closet flushing greater than 1.6 gpf) ^f	6	—
Bathtub ^b (with or without overhead shower or whirlpool attachments)	2	1 1/2
Bidet	1	1 1/4
Combination sink and tray	2	1 1/2
Dental lavatory	1	1 1/4
Dental unit or cuspidor	1	1 1/4
Dishwashing machine ^c domestic	2	1 1/2
Drinking fountain	1/2	1 1/4
Emergency floor drain	0	2
Floor drains	2	2
Kitchen sink, domestic	2	1 1/2
Kitchen sink, domestic with food waste grinder and/or dishwasher	2	1 1/2
Laundry tray (1 or 2 compartments)	2	1 1/2
Lavatory	1	1 1/4
Shower	2	1 1/2
Service sink	2	1 1/2
Sink	2	1 1/2
Urinal	4	Note d
Urinal, 1 gallon per flush or less	2 ^e	Note d
Urinal, nonwater supplied	0.5	Note d
Wash sink (circular or multiple) each set of faucets	2	1 1/2
Water closet, flushometer tank, public or private	4 ^e	Note d
Water closet, private (1.6 gpf)	3 ^e	Note d
Water closet, public (flushing greater than 1.6 gpf)	4 ^e	Note d
Water closet, public (1.6 gpf)	4 ^e	Note d
Water closet, public (flushing greater than 1.6 gpf)	6 ^e	Note d

For SI: 1 inch = 25.4 mm, 1 gallon = 3.785 L (gpf = gallon per flushing cycle).

a. For traps larger than 3 inches, use Table 709.2.

b. A showerhead over a bathtub or whirlpool bathtub attachment does not increase the drainage fixture unit value.

c. See Sections 709.2 through 709.4 for methods of computing unit value of fixtures not listed in this table or for rating of devices with intermittent flows.

d. Trap size shall be consistent with the fixture outlet size.

e. For the purpose of computing loads on building drains and sewers, water closets and urinals shall not be rated at a lower drainage fixture unit unless the lower values are confirmed by testing.

f. For fixtures added to a dwelling unit bathroom group, add the dfa value of those additional fixtures to the bathroom group fixture count.

g. See Section 406.3 for sizing requirements for fixture drain, branch drain, and drainage stack for an automatic clothes washer standpipe.

NOTE:
INSTALL AN ADDITIONAL FLOOR DRAIN IN THE CENTER OF THE FLOOR IN ALL HANDICAPPED BATHROOMS AS NOTED ON THE FLOOR PLANS

TABLE 604.3 WATER DISTRIBUTION SYSTEM DESIGN CRITERIA REQUIRED CAPACITY AT FIXTURE SUPPLY PIPE OUTLETS

FIXTURE SUPPLY OUTLET SERVING	FLOW RATE ^a (gpm)	FLOW PRESSURE (psi)
Bathtub	2	8
Bidet	2	8
Combination fixture	4	8
Dishwasher, residential	2.75	8
Drinking fountain	0.75	8
Laundry tray	4	8
Lavatory	2	8
Shower	3	8
Shower, temperature controlled	3	20
Sillcock, hose bibb	5	8
Sink, residential	2.5	8
Sink, service	3	8
Urinal, valve	15	15
Water closet, blow out, flushometer valve	35	25
Water closet, flushometer tank	1.6	15
Water closet, siphonic, flushometer valve	25	15
Water closet, tank, close coupled	3	8
Water closet, tank, one piece	6	20

For SI: 1 gallon per minute = 6.895 L/min, 1 gallon per square inch = 3.785 L/min.

a. For additional requirements for flow rates and quantities, see Section 604.4.

TABLE 604.4 MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY ^a
Lavatory, private	2.2 gpm at 60 psi
Lavatory, public, (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Shower head ^b	2.5 gpm at 80 psi
Sink faucet	2.2 gpm at 60 psi
Urinal	1.0 gallon per flushing cycle
Water closet	1.6 gallons per flushing cycle

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/min, 1 pound per square inch = 6.895 kPa.

a. A hand-held shower spray is a shower head.

b. Consumption tolerances shall be determined from referenced standards.

TABLE 604.5 MINIMUM SIZES OF FIXTURE WATER SUPPLY PIPES

FIXTURE	MINIMUM PIPE SIZE (inch)
Bathtubs ^a (60" x 32" and smaller)	1/2
Bathtubs ^a (larger than 60" x 32")	1/2
Bidet	1/2
Combination sink and tray	1/2
Dishwasher, domestic ^b	1/2
Drinking fountain	1/2
Hose bibbs	1/2
Kitchen sink ^b	1/2
Laundry, 1, 2 or 3 compartments ^a	1/2
Lavatory	3/8
Shower, single head ^b	1/2
Water closet, flush rim	3/4
Sinks, service	1/2
Urinal, flush tank	1/2
Urinal, flush valve	3/4
Wall hydrant	1/2
Water closet, flush tank	1
Water closet, flush valve	1
Water closet, flushometer tank	3/8
Water closet, one piece ^b	1/2

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa.

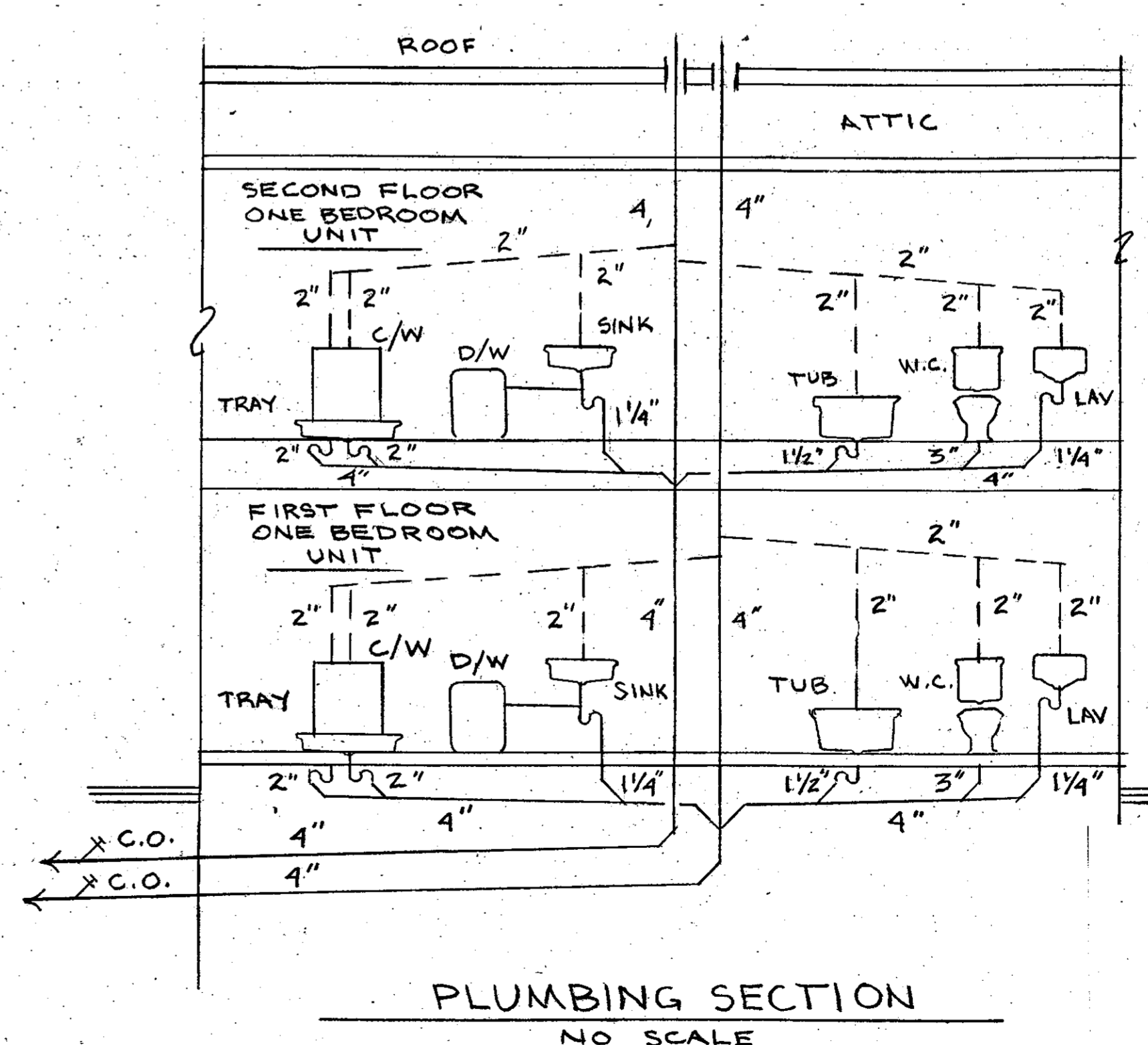
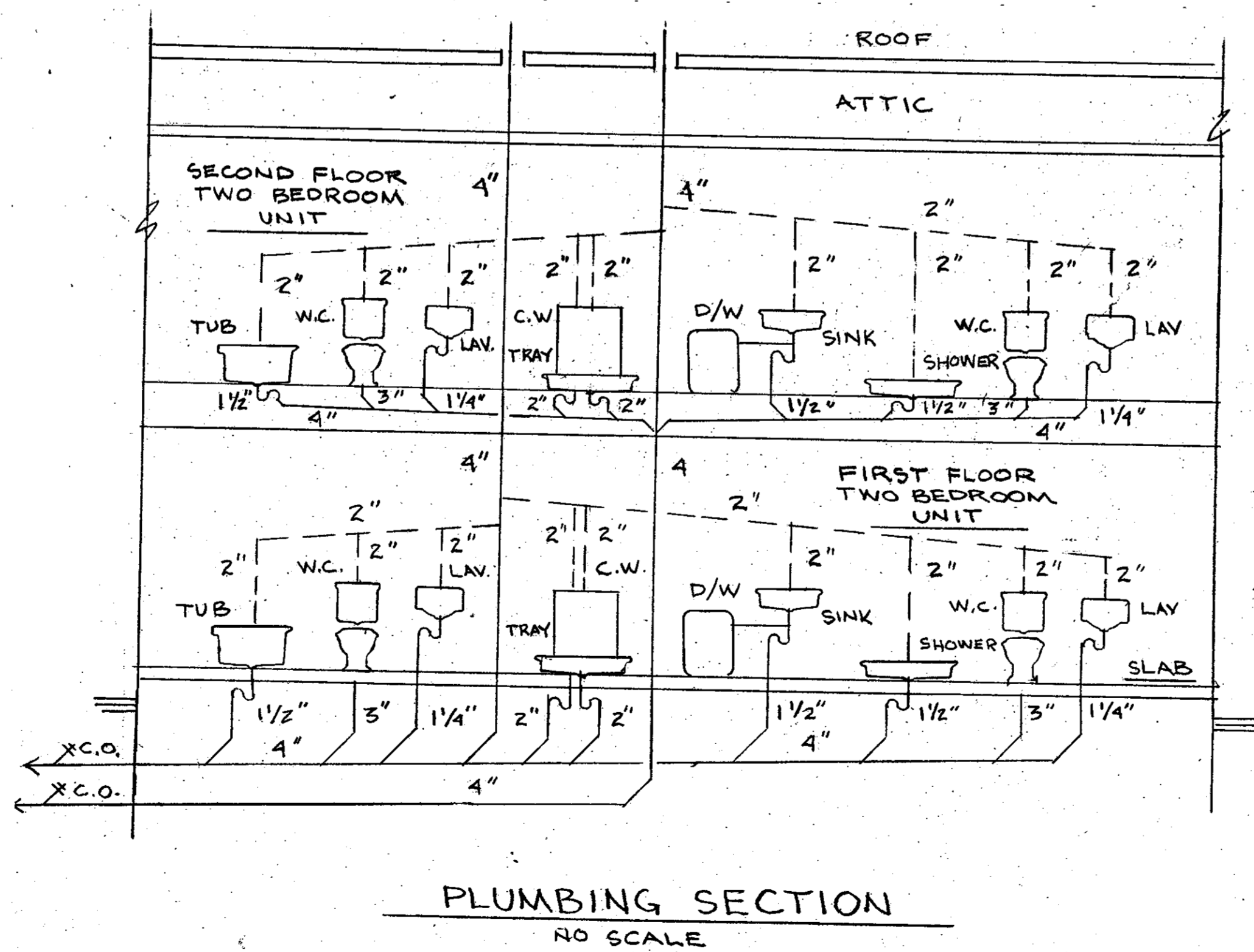
a. Where the developed length of the distribution line is 60 feet or less, and the available pressure at the meter is a minimum of 35 psi, the minimum size of an individual distribution line supplied from a manifold and installed as part of a parallel water distribution system shall be one nominal pipe size smaller than the sizes indicated.

b. Where the developed length of the distribution line is 60 feet or less, and the available pressure at the meter is a minimum of 35 psi, the minimum size of an individual distribution line supplied from a manifold and installed as part of a parallel water distribution system shall be one nominal pipe size smaller than the sizes indicated.

TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2 1/2" or less	1/4
3 to 6	1/8
8 or larger	1/16

For SI: 1 inch = 25.4 mm, 1 inch per foot = 0.0833 mm/mm.



REVISIONS

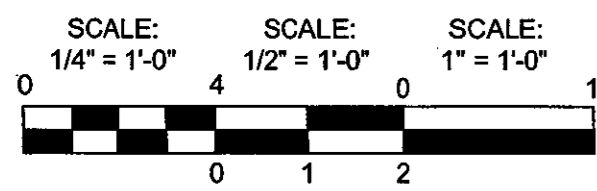
3/18/2015	JVD
5/9/2015	JVD
5/16/2016	JVD
6/2/2017	JVD

COLUMBIA TERRACE CONDOMINIUMS
HUNTINGTON STATION, NEW YORK

DRAWN BY:
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DRAWN	L.K.E.
DATE	6/3/2014
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JOB NO.	COLUMBIA STREET

P-1
CONTRACT NO.
CDA 2017-100



1004.11.3.2.2 Water Closet. The water closet shall comply with Section 1004.11.3.1.2.

1004.11.3.2.3 Bathing Facilities. Where either a bathtub or shower compartment is provided, it shall conform with Section 1004.11.3.2.3.1 or 1004.11.3.2.3.2.

1004.11.3.2.3.1 Bathtub. A clearance 48 inches (1220 mm) minimum in length measured perpendicular from the control end of the bathtub, and 30 inches (760 mm) minimum in width shall be provided in front of bathtubs.

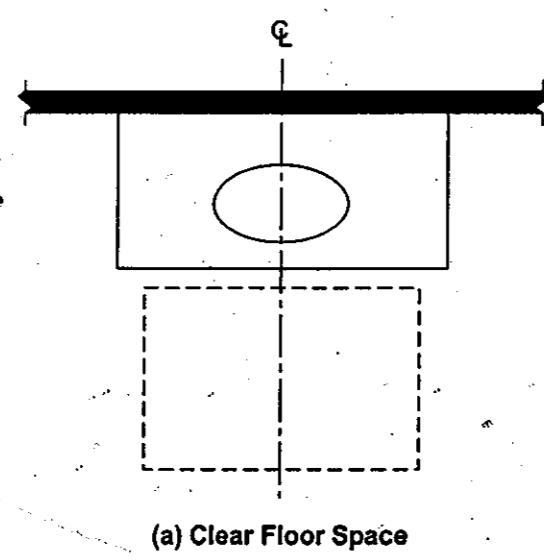
1004.11.3.2.3.2 Shower Compartment. A shower compartment shall comply with Section 1004.11.3.1.3.3.

1004.12 Kitchens. Kitchens shall comply with Section 1004.12.

1004.12.1 Clearance. Clearance complying with Section 1004.12.1 shall be provided.

1004.12.1.1 Minimum Clearance. Clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum.

1004.12.1.2 U-Shaped Kitchens. In kitchens with counters, appliances, or cabinets on three contiguous sides, clearance between all opposing base cabinets, countertops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.



(a) Clear Floor Space

Fig. 1004.11.3.2.1
Lavatory in Type B Units—Option B Bathrooms

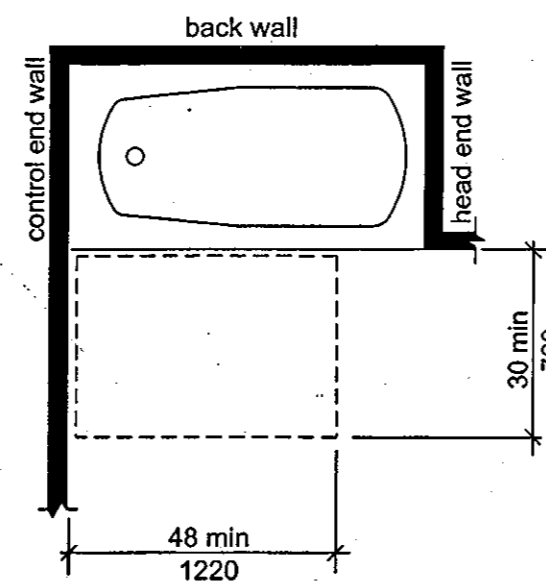
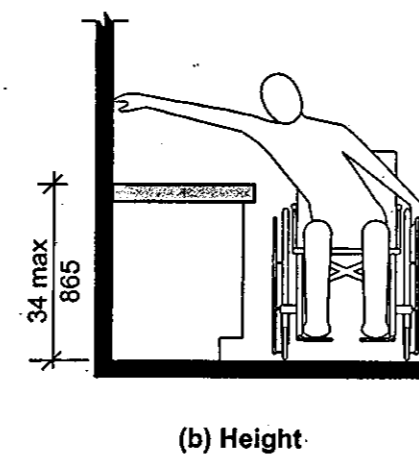


Fig. 1004.11.3.2.1
Bathroom Clearance in Type B Units—
Option B Bathrooms



(b) Height

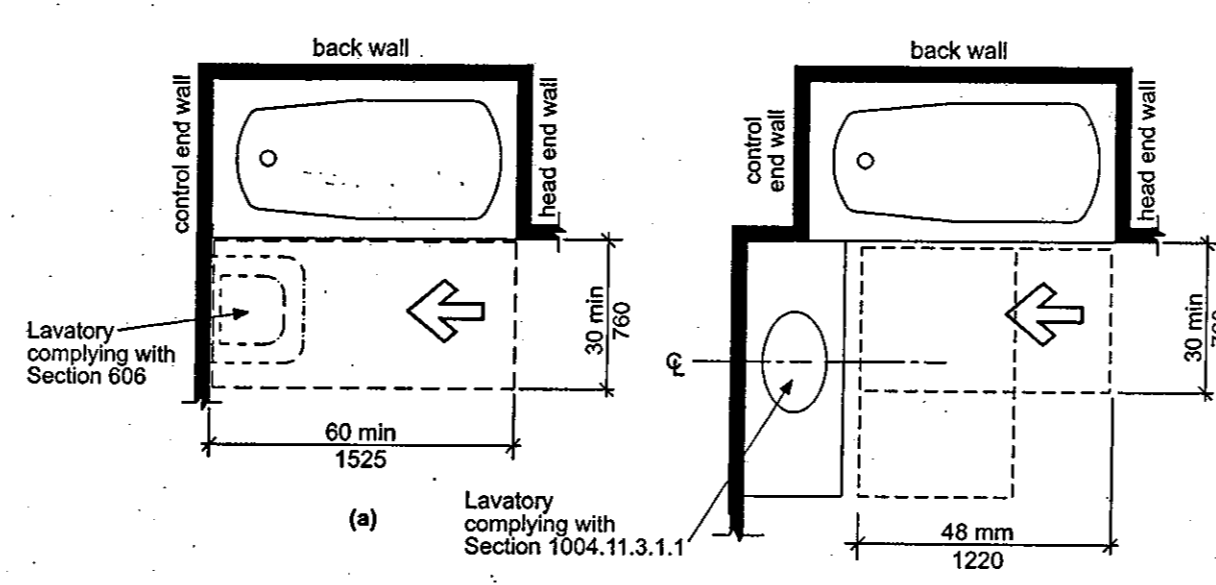


Fig. 1004.11.3.1.1
Parallel Approach Bathtub in Type B Units—
Option A Bathrooms

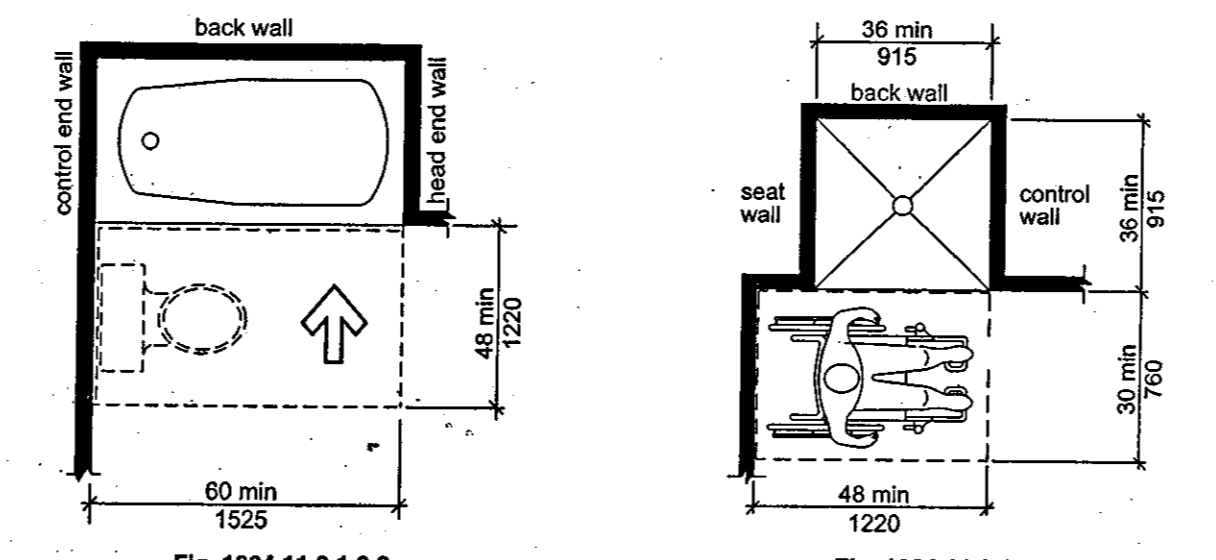


Fig. 1004.11.3.1.2
Forward Approach Bathtub in Type B Units—
Option A Bathrooms

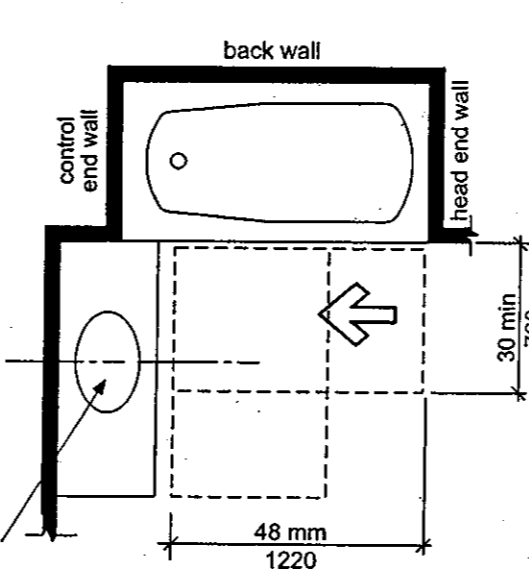


Fig. 1004.11.3.1.3
Transfer-Type Shower Compartment in
Type B Units

of the lavatory, and the finish extends under such cabinetry.

1004.11.3.2.1.2 Position. The clear floor space shall be centered on the lavatory.

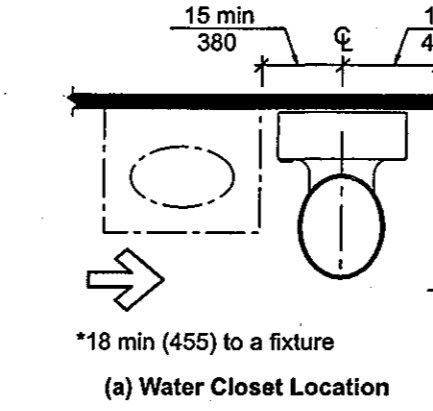
1004.11.3.2.1.3 Height. The front of the lavatory shall be 34 inches (865 mm) maximum above the floor, measured to the higher of the fixture rim or counter surface.

1004.11.3.2.1.1 Clear Floor Space. A clear floor space complying with Section 305.3, positioned for a parallel approach, shall be provided.

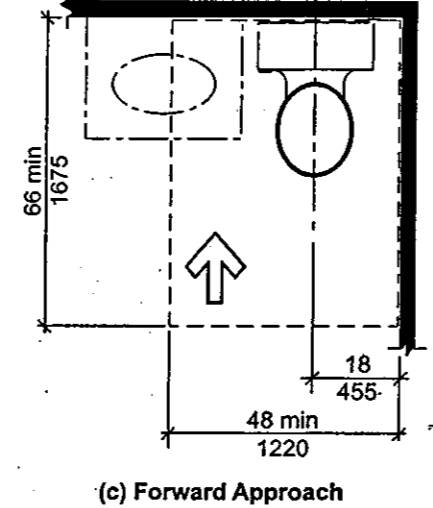
- EXCEPTIONS:**
1. A lavatory complying with Section 606.
 2. Cabinetry shall be permitted under the lavatory, provided such cabinetry can be removed without removal or replacement

provided in front of bathtubs with a forward approach. A water closet shall be permitted in the clearance at the control end of the bathtub.

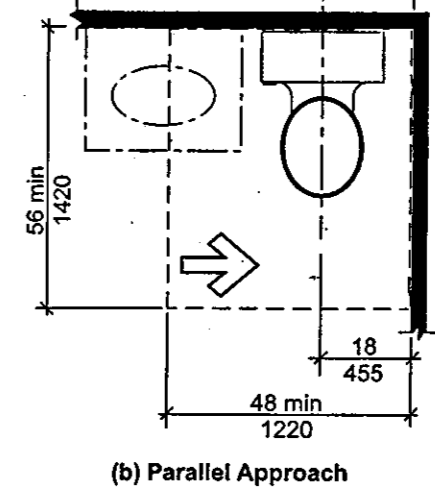
1004.11.3.1.3.3 Shower Compartment. If a shower compartment is the only bathing facility, the shower compartment shall have dimensions of 36 inches (915 mm) minimum in width and 36 inches (915 mm) minimum in depth. A clearance of 48 inches (1220 mm) minimum in length, measured perpendicular from the shower head wall, and 30 inches (760 mm) minimum in depth, measured from the face of the shower



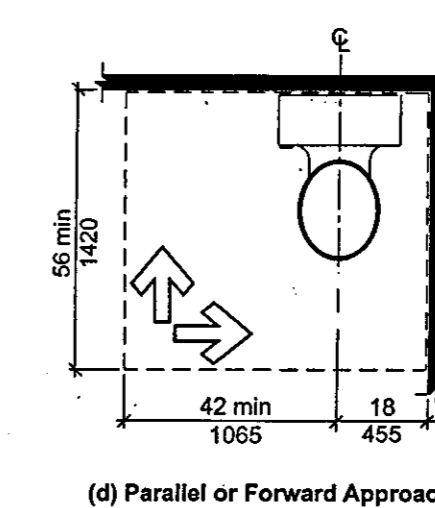
(a) Water Closet Location



(a) Forward Approach



(b) Parallel Approach



(b) Parallel or Forward Approach

Fig. 1004.11.3.1.2
Water Closets in Type B Units

1004.11.3.1.2 Water Closet. The lateral distance from the centerline of the water closet to a bathtub or lavatory shall be 18 inches (455 mm) minimum on the side opposite the direction of approach and 15 inches (380 mm) minimum on the other side. The lateral distance from the centerline of the water closet to an adjacent wall shall be 18 inches (455 mm). The lateral distance from the centerline of the water closet to a lavatory or bathtub shall be 15 inches (380 mm) minimum. The water closet shall be positioned to allow for future installation of a grab bar on the side with 18 inches (455 mm) clearance. Clearance around the water closet shall comply with Section 1004.11.3.1.2.1, 1004.11.3.1.2.2, or 1004.11.3.1.2.3.

1004.11.3.1.2.1 Parallel Approach. A clearance 56 inches (1420 mm) minimum measured from the wall behind the water closet, and 48 inches (1220 mm) minimum measured from a point 18 inches (455 mm) from the centerline of the water closet on the side designated for future installation of grab bars shall be provided. Vanities or lavatories on the wall behind the water closet are permitted to overlap the clearance.

1004.11.3.1.2.2 Forward Approach. A clearance 66 inches (1675 mm) minimum measured from the wall behind the water closet, and 48 inches (1220 mm) minimum measured from a point 18 inches (455 mm) from the centerline of the water closet on the side designated for future installation of grab bars shall be provided. Vanities or lavatories on the wall behind the water closet are permitted to overlap the clearance.

1004.11.3.1.2.3 Parallel or Forward Approach. A clearance 56 inches (1420 mm) minimum measured from the wall behind the water closet, and 42 inches (1065 mm) minimum measured from the centerline of the water closet shall be provided.

1004.11.3.1.3 Bathing Facilities. Where a bathtub or shower compartment is provided it shall conform with Section 1004.11.3.1.3.1, 1004.11.3.1.3.2, or 1004.11.3.1.3.3.

1004.11.3.1.3.1 Parallel Approach Bathtubs. A clearance 60 inches (1525 mm) minimum in length and 30 inches (760 mm) minimum in width shall be provided in front of bathtubs with a parallel approach. Lavatories complying with Section 606 shall be permitted in the clearance. A lavatory complying with Section 1004.11.3.1.1 shall be permitted at the control end of the bathtub if a clearance 48 inches (1220 mm) minimum in length and 30 inches (760 mm) minimum in width for a parallel approach is provided in front of the bathtub.

1004.11.3.1.3.2 Forward Approach Bathtubs. A clearance 60 inches (1525 mm) minimum in length and 48 inches (1220 mm) minimum in width shall be

609 Grab Bars

609.1 General. Grab bars in accessible toilet or bathing facilities shall comply with Section 609.

609.2 Cross Section. Grab bars shall have a cross section complying with Section 609.2.1 or 609.2.2.

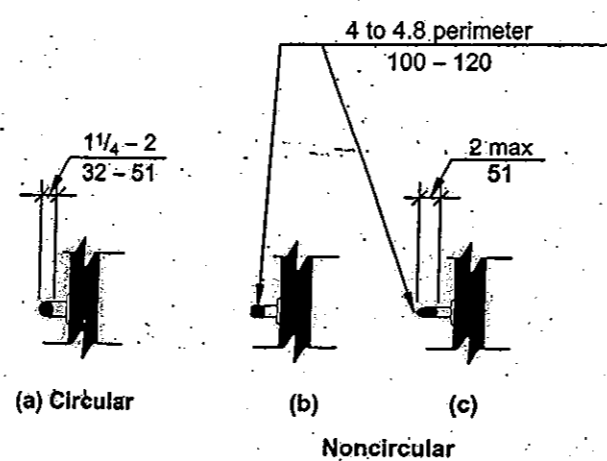


Fig. 609.2
Size of Grab Bars

609.2.1 Circular Cross Section. Grab bars with a circular cross section shall have an outside diameter of 1 1/2 inch (38 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Noncircular Cross Section. Grab bars with a noncircular cross section shall have a cross section dimension of 2 inches (51 mm) maximum; and a perimeter dimension of 4 inches (102 mm) minimum and 4.8 inches (122 mm) maximum.

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above the grab bar shall be 1.2 inches (305 mm) minimum.

EXCEPTIONS:

1. The space between the grab bars and shower controls, shower fittings, and other grab bars above the grab bar shall be permitted to be 1 1/2 inches (38 mm) minimum.

608.3 Grab Bars. Grab bars shall comply with Section 609 and shall be provided in accordance with Section 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the floor.

EXCEPTIONS:

1. Grab bars are not required to be installed in a shower facility for a single occupant, accessed only through a private office and not for common use or public use, provided reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with Section 608.3.
2. In Type A units, grab bars are not required to be installed where reinforcement complying with Section 1003.11.9 is installed for the future installation of grab bars.

608.3.1 Transfer-Type Showers. Grab bars for transfer type showers shall comply with Section 608.3.1.

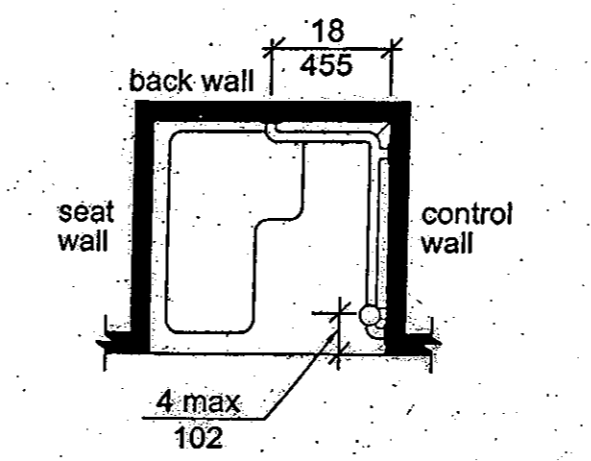


Fig. 608.3.1
Grab Bars in Transfer-Type Showers

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum to 16 inches (405 mm) maximum from the seat wall. The rear edge of the 'L' portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the 'L' shall be 22 inches (560 mm) minimum and 23 inches (585 mm) maximum from the main seat wall.

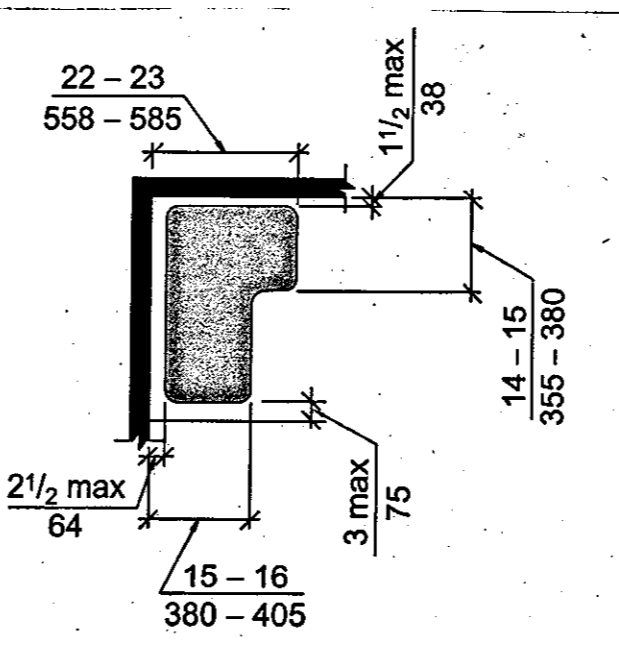
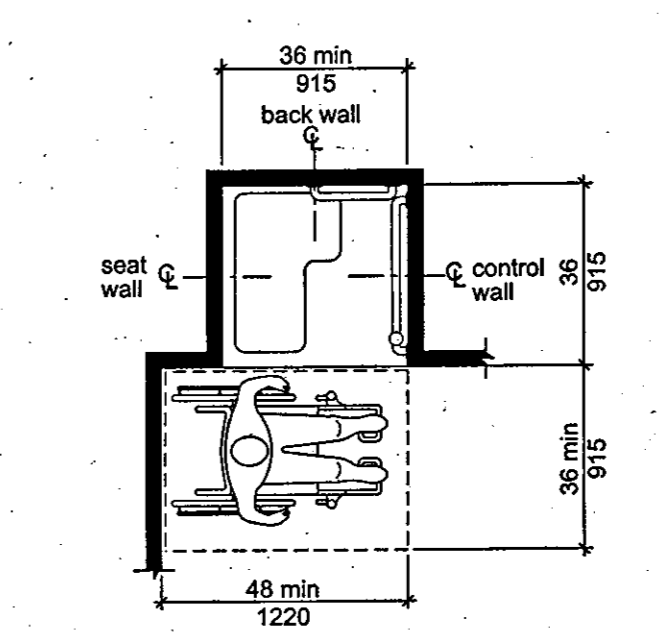


Fig. 610.3.2
L-Shaped Shower Compartment Seat

608.2 Size and Clearances.

608.2.1 Transfer-Type Shower Compartments. Transfer-type shower compartments shall have a clear inside dimension of 36 inches (915 mm) in width and 36 inches (915 mm) in depth, measured at the center point of opposing sides. An entry 36 inches (915 mm) minimum in width shall be provided. A clearance of 48 inches (1220 mm) minimum in length measured perpendicular from the control wall, and 36 inches (915 mm) minimum in depth shall be provided adjacent to the open face of the compartment.



Note: inside finished dimensions measured at the center points of opposing sides
Fig. 608.2.1
Transfer-Type Shower Compartment
Size and Clearance

608.2.2 Standard Roll-In-Type Shower Compartments. Standard roll-in-type shower compartments shall have a clear inside dimension of 60 inches (1525 mm) minimum in width and 30 inches (760 mm) minimum in depth, measured at the center point of opposing sides. An entry 60 inches (1525 mm) minimum in width shall be provided. A clearance of 60 inches (1525 mm) minimum in length adjacent to the 60-inch (1525 mm) width of the open face of the shower compartment, and 30 inches (760 mm) minimum in depth, shall be provided. A lavatory complying with Section 606 shall be permitted at the end of the clearance opposite the shower compartment side where shower controls are positioned. Where shower controls are located on the back wall and no seat is provided, the lavatory shall be permitted at either end of the clearance.

REVISIONS	
3/18/2015	JVD
5/9/2015	JVD
5/16/2016	JVD
6/2/2017	JVD

COLUMBIA TERRACE CONDOMINIUMS
 HUNTINGTON STATION, NEW YORK

DRAWN BY:
 JAMES V. DE LUCCA, R.A.
 12 LINDA LANE EAST
 RIVERHEAD, N.Y. 11901
 (631) 727-1611

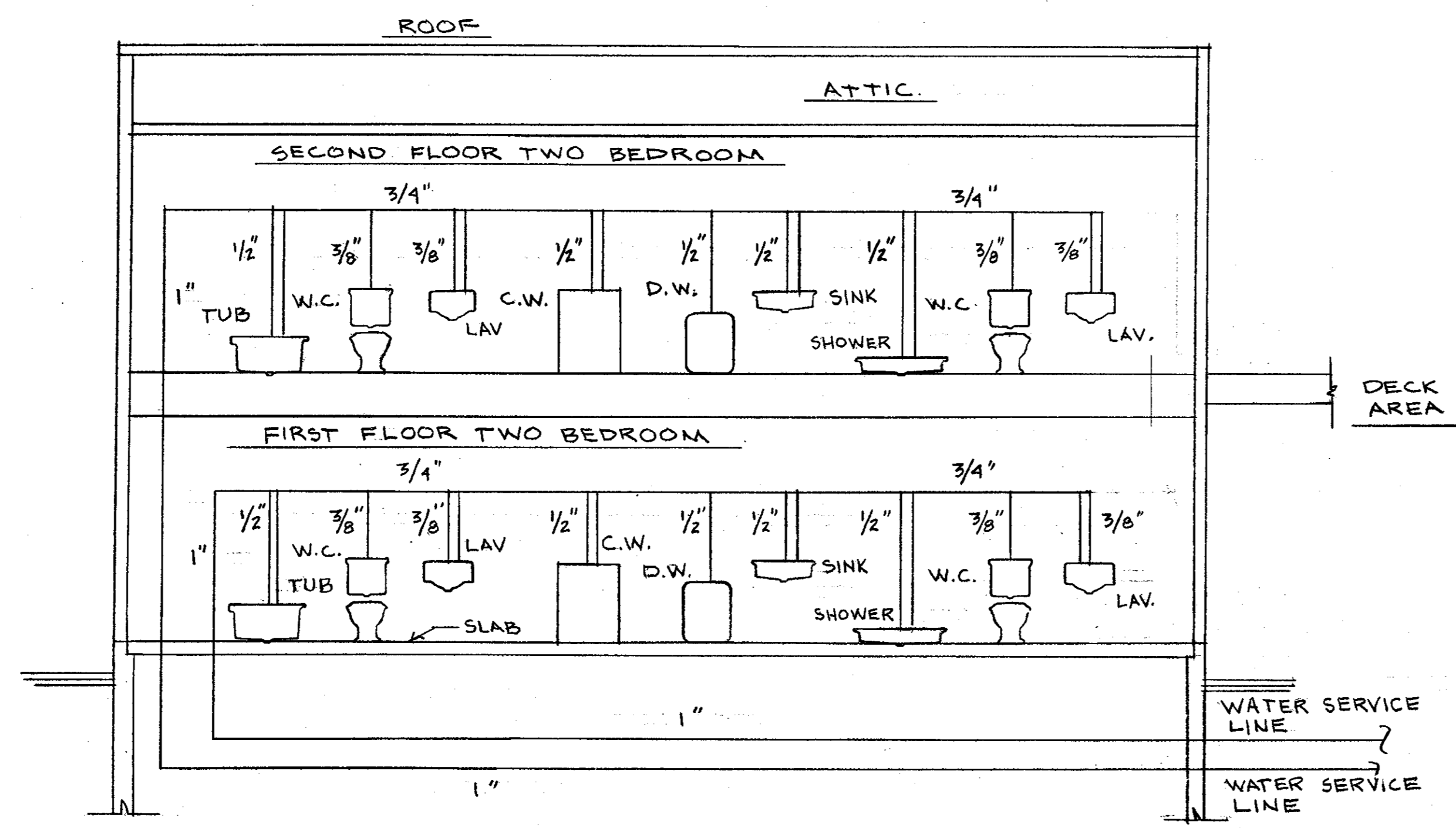
DESIGNED	J.V.D.
DRAWN	L.K.E.
DATE	6/3/2014
SCALE	AS NOTED
JOB NO.	COLUMBIA STREET

P-2
 CONTRACT NO.
 CDA 2017-100

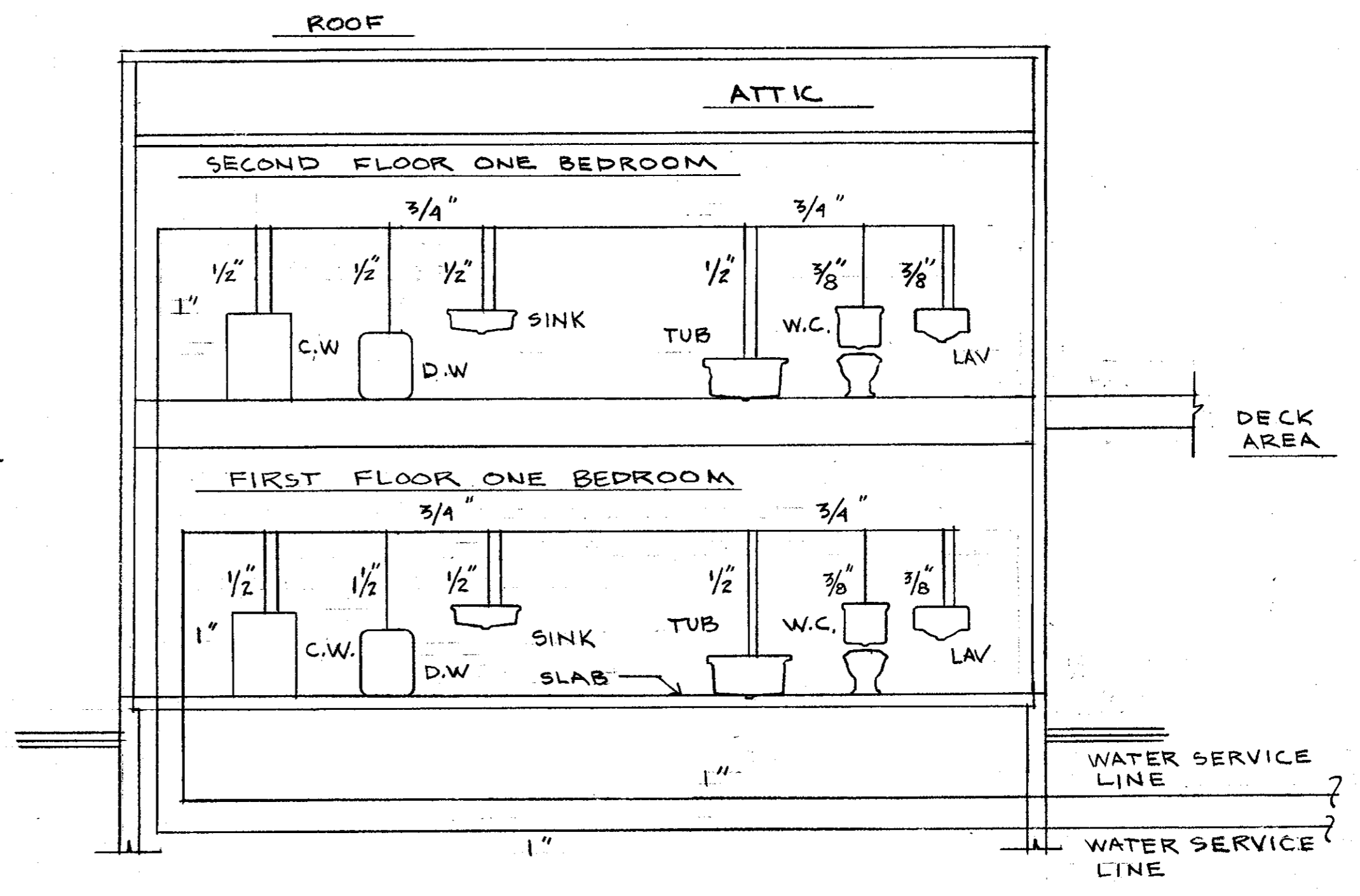
REVISIONS	BY
2/23/2017	JVD
6/2/2017	JVD

COLUMBIA TERRACE CONDOMINIUMS
 HUNTINGTON STATION, NEW YORK

DRAWN BY:
 JAMES V. DE LUCCA, R.A.
 12 LINDA LANE EAST
 RIVERHEAD, N.Y. 11901
 (631) 727-1611

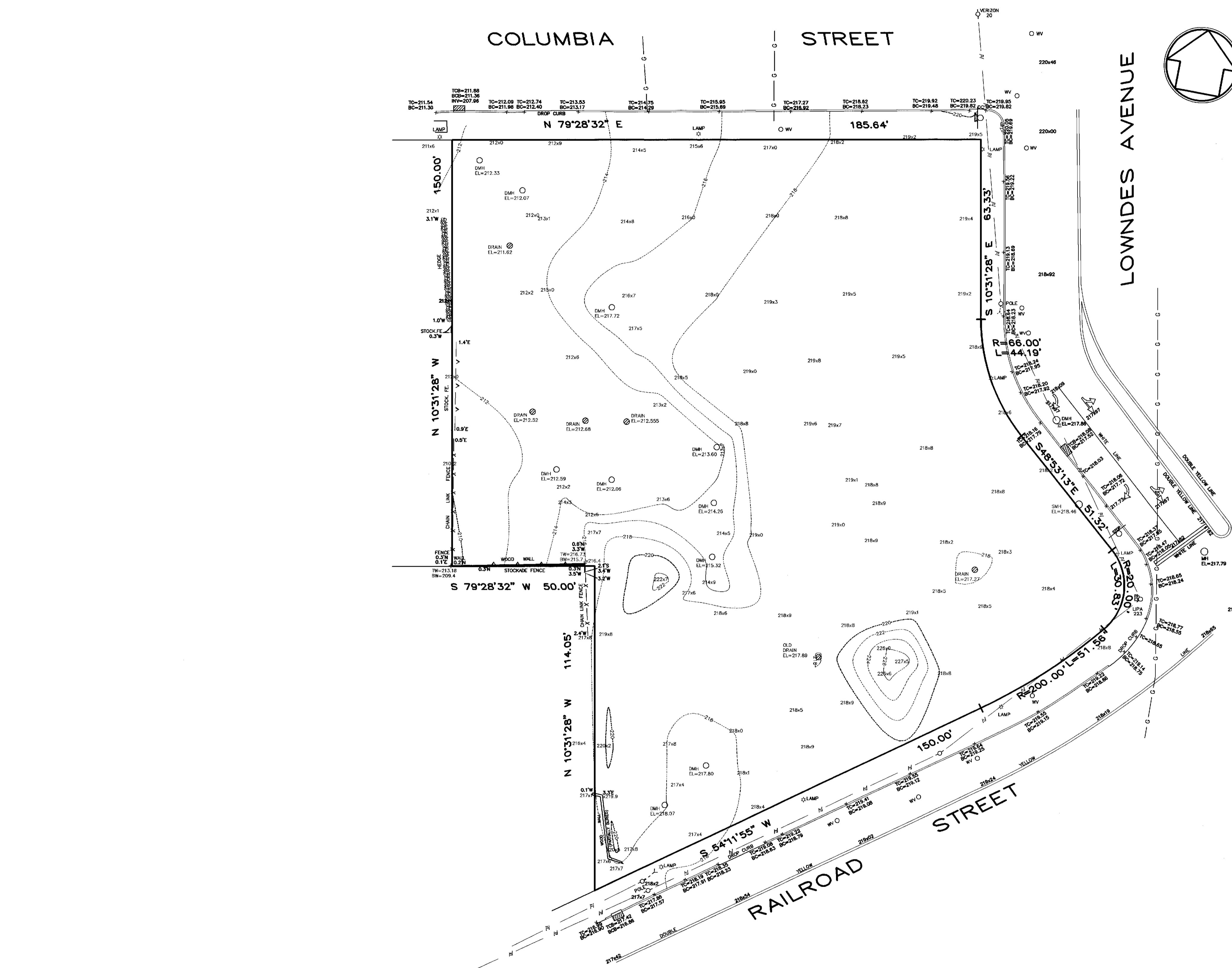


MINIMUM SIZES WATER SUPPLY PIPES
 NO SCALE



MINIMUM SIZES WATER SUPPLY PIPES
 NO SCALE

DRAWN	J.V.D.
CHECKED	
DATE	2/12/2017
SCALE	NO SCALE
JOB NO.	COLUMBIA STREET
SHEET	P-3
CONTRACT NO.	CDA 2017-100



LEGEND

---X---X---	WIRE FENCE	SMH	SANITARY MH
---	OVERHEAD WIRES	T	TELEPHONE MANHOLE
---	WATER	⊙	DRAIN
---	SEWER	⊠	CATCH BASIN
---	TELEPHONE	DC	DROP CURB
---	GAS	---	SKIN
---	TELEVISION	---	PAINTED LINE
○	UTILITY POLE	→	TRAFFIC DIRECTION
---	GUY WIRE	---	FULL YELLOW BARRIER LINE
HYD	HYDRANT	---	SOLID WHITE LANE LINE
GV	GAS VALVE	---	FULL YELLOW LANE LINE
WV	WATER VALVE		
WM	WATER METER		
---	EXIST CONCRETE CURB		

- NOTES**
1. THE EXISTENCE OF ANY RIGHT OF WAYS AND/OR EASEMENTS OF RECORD, IF ANY, NOT SHOWN, NOT GUARANTEED.
 2. UNDERGROUND UTILITIES, NOT SHOWN, NOT GUARANTEED.
 3. ELEVATIONS IN TOWN DATUM.

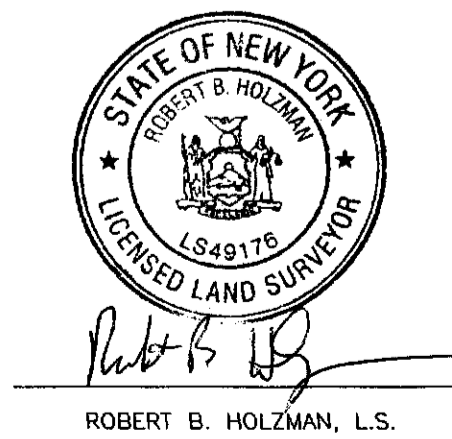
TOPOGRAPHIC SURVEY

DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72, 73, 108, 109.3, 117
SUFFOLK COUNTY TAX MAP

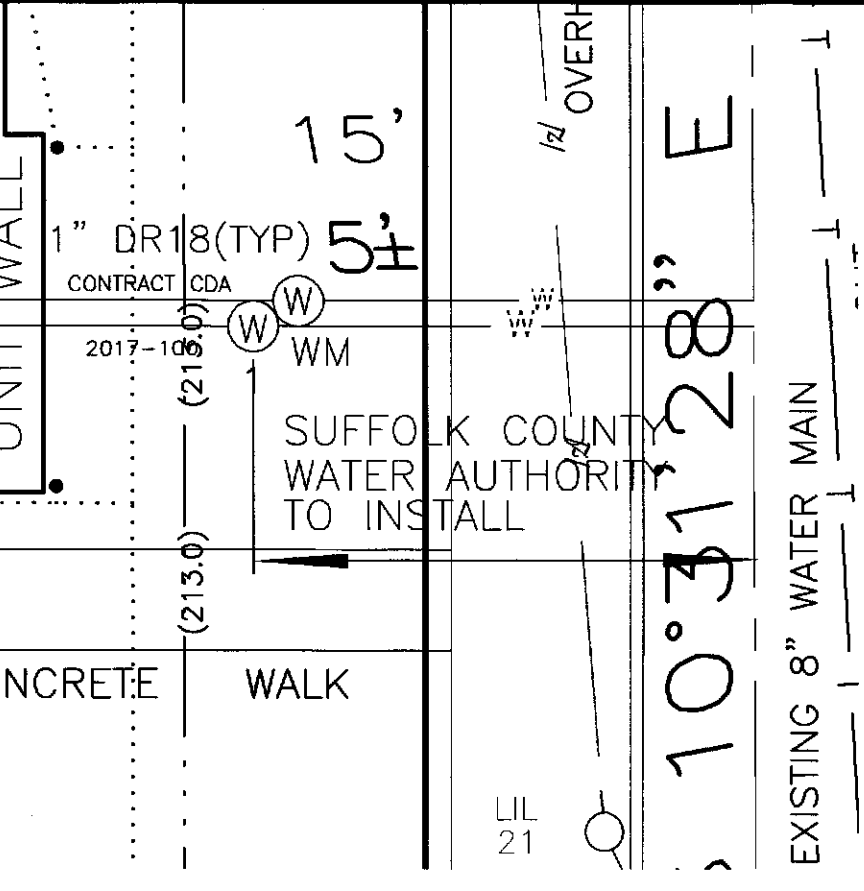
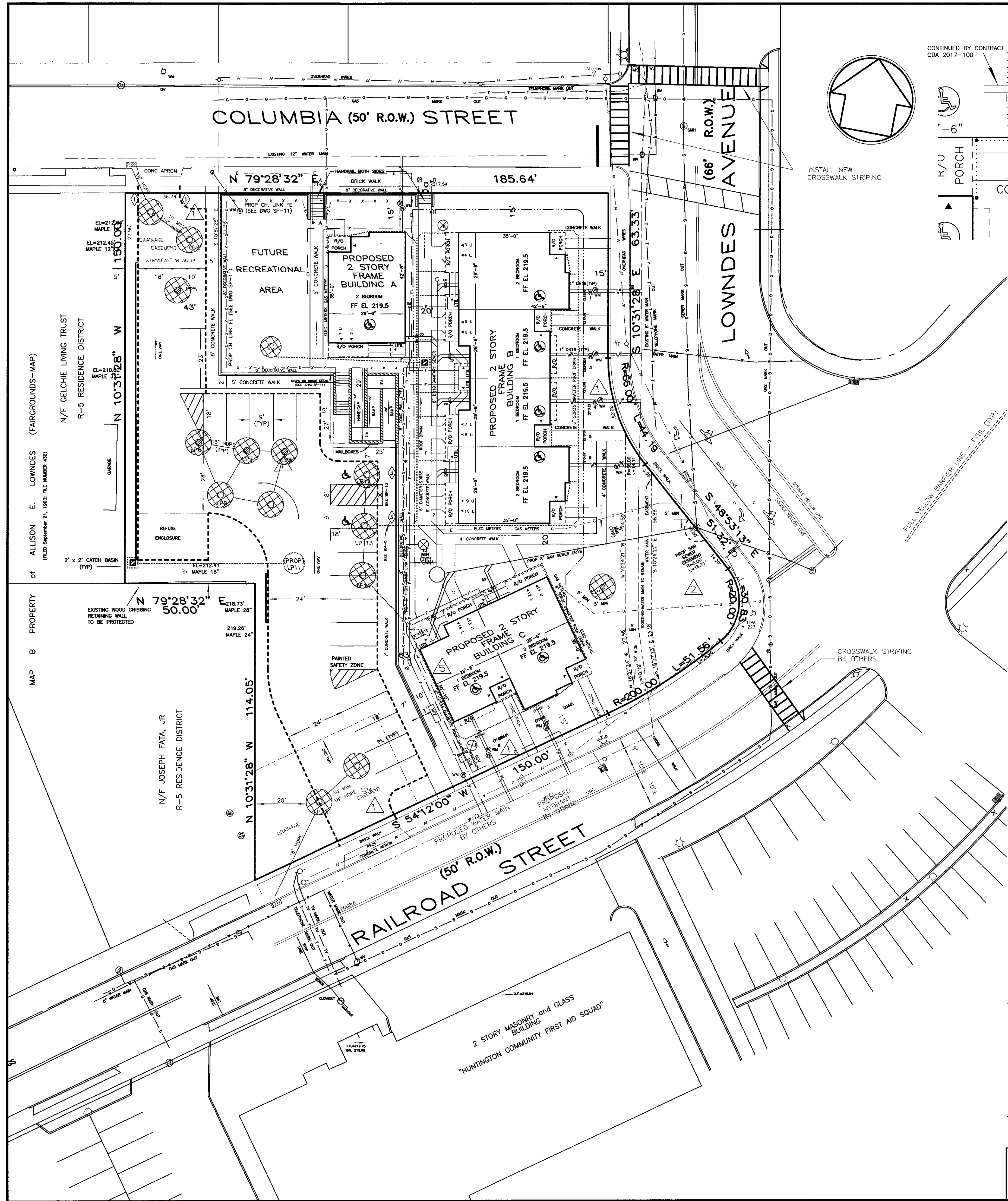
LOTS 1, A, B, C MAP B
PROPERTY OF ALLISON E. LOWNDES (FAIRGROUNDS-MAP)
Filed September 21, 1903, File Number 432
PART OF LOWNDES AVENUE and RAILROAD STREET
HUNTINGTON STATION
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

ROBERT B. HOLZMAN LAND SURVEYING P.C. 2016
LICENSED LAND SURVEYOR, N.Y.S. LIC. NO. 49176
1029 WILLIAM FLOYD PARKWAY, SUITE 3, SHIRLEY, NY 11967
PHONE: 631-281-0162 FAX: 631-281-0292
Email: rbhls@optonline.net

DATE: January 21, 2016 SCALE: 1"=20' FILE: 400-140-3-72



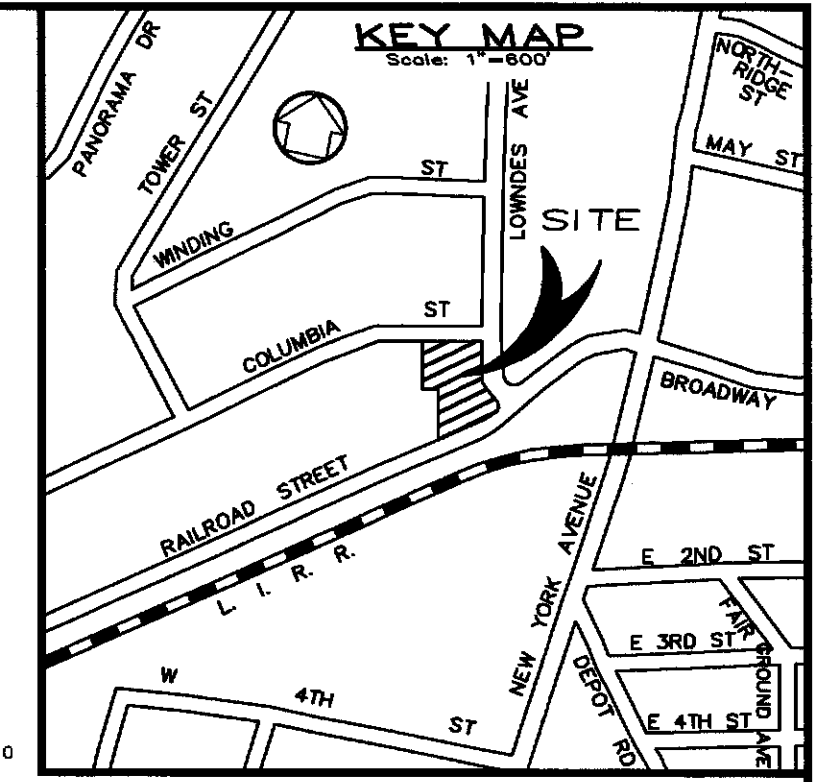
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 BLDG. ADDITIONS AND/OR OTHER CONSTRUCTION.
 COVENANTS AND RESTRICTIONS, IF ANY, NOT INDICATED OR SHOWN UNLESS REQUESTED IN WRITING BY CLIENTS OR THEIR REPRESENTATIVE
 PRIOR TO SURVEY BEING DONE.
 COPYRIGHT BY ROBERT B. HOLZMAN, L.S., AS PER ORIGINAL DATE SHOWN ON SURVEY.



TYPICAL WATER SERVICE INSTALLATION
NTS

LEGEND

- CHAIN LINK FENCE
- DWG SP-11
- OVERHEAD WIRES
- WATER DWG SP-15
- WATER (N.I.C.)
- SEWER DWG SP-14
- TELEPHONE (N.I.C.)
- GAS (N.I.C.)
- ELECTRIC (N.I.C.)
- STREET LIGHTS (N.I.C.)
- FIRE LINE DWG SP-15
- IRRIGATION LINE DWG SP-15
- DRAINAGE LINES DWG SP-15
- UTILITY POLE (N.I.C.)
- LIGHT POLE (N.I.C.)
- HYDRANT (N.I.C.)
- GV GAS VALVE (N.I.C.)
- WM WATER METER (N.I.C.)
- WS WATER SERVICE
- HW HANDICAP UNIT
- HP HANDICAP PARKING
- EC EXIST CONCRETE CURB
- PROPOSED CURB DWG SP-9
- U UPPER RESIDENTIAL UNIT
- L LOWER RESIDENTIAL UNIT
- DECORATIVE WALL DWG SP-10
- CONCRETE WALL
- WATER LINE W/WATER METER
- EXISTING (NOT IN CONTRACT)
- SMH ○ SANITARY MH (N.I.C.)
- E ⊕ ELECTRIC MANHOLE (N.I.C.)
- T ⊕ TELEPHONE MANHOLE (N.I.C.)
- DMH ○ DRAINAGE MANHOLE COVER
- MH ○ MANHOLE COVER
- DRAIN
- CB CATCH BASIN
- TC TOP OF CURB DWG SP-4
- BC BOTTOM OF CURB DWG SP-4
- BW --- BACK OF WALK / BOTTOM OF WALL
- TW --- TOP OF WALL
- FLOW DIRECTION
- DC --- DROP CURB SEE DWG SP-10
- SIGN
- HP --- HANDICAP PARKING SIGN DWG SP-9
- B --- BOLLARD AT REFUSE ENCL. DWG SP-10
- PAINTED STRIPING
- TRAFFIC DIRECTION
- FYBL --- FULL YELLOW BARRIER LINE (N.I.C.)
- SKLL --- SOLID WHITE LANE LINE
- FYLL --- FULL YELLOW LANE LINE (N.I.C.)
- CONCRETE
- DOOR LOCATION
- TB --- THRUST BLOCK DWG SP-16
- PL --- PAINTED LINE
- N.I.C. --- NOT IN CONTRACT



MAP NOTES

- ELEVATIONS IN TOWN DATUM.
- SEE TOPOGRAPHIC MAP FOR EXISTING UTILITY LOCATIONS.
- ALL ROADS ARE OWNED BY THE TOWN OF HUNTINGTON.

SITE STATISTICS

AREA OF SITE = 42,385 Sq. Ft. or 0.973 Acres.

THE ENTIRE PROPERTY WITHIN THE METES AND BOUNDS SHOWN ON THESE DRAWINGS, IS TO BE DEVELOPED PER THESE PLANS.

THE CURRENT PROPERTY HAS NO SURFACE STRUCTURES AND THESE PLANS DEPICT CONSTRUCTION NECESSARY TO DEVELOP THE PROPERTY.

WHERE THE WORDS OTHER THAN "EXISTING" ARE NOTED ON THE DRAWINGS THE DRAWING REPRESENTS REQUIRED CONSTRUCTION. ALSO SEE LEGEND.

ALL WORK EXISTING OR PROPOSED BEYOND THE BOUNDS OF THE PROPERTY IS TO BE BY OTHERS. SEE TOPOGRAPHIC SURVEY FOR EXISTING CONDITIONS.

ALL WORK WITHIN THE PROPERTY TO BE PERFORMED BY THE CONTRACTORS FOR THE CONTRACT 2018-100 AS DELINEATED IN THE CONTRACT DOCUMENTS, WITH THE EXCEPTION OF THE GAS SERVICE LINES FROM THE EXISTING GAS LINES IN THE TOWN RIGHT OF WAY TO THE GAS METERS LOCATED AS SHOWN ON THE DRAWING, THE ELECTRIC LINES FROM THE UTILITY POLES AS SHOWN ON THE DRAWING TO THE ELECTRIC METERS AS SHOWN ON THE DRAWINGS AND THE WATER SERVICE LINES FROM THE WATER MAINS TO EACH WATER METER AS SHOWN ON THE DRAWING.

ALL CONTRACT WORK RELATIVE TO THESE SERVICES SHALL BEGIN AT THE VARIOUS METERS.

ARCHITECTURAL DESIGN BY
JAMES V. De LUCCA, R.A.
REGISTERED ARCHITECT
12 LINDA LANE EAST
RIVERHEAD, NY 11901
631-727-1611

JAMES V. De LUCCA, R.A.



ROBERT B. HOLZMAN, L.S.

SURVEY and TOPOGRAPHIC INFORMATION BY
ROBERT B. HOLZMAN LAND SURVEYING PC 2014
LICENSED LAND SURVEYOR, N.Y.S. LIC. NO. 49176
1029 WILLIAM FLOYD PARKWAY, SUITE 3
SHIRLEY, NY 11967
PHONE: 631-281-0162 FAX: 631-281-0292
Email: rbhls@optonline.net

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL SHALL NOT BE CONSIDERED TO BE A TRUE VALID COPY. CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON THEIR BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY, AND LENDING INSTITUTION LISTED HEREON. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL PURCHASERS OR SUBSEQUENT OWNERS. THE INTENTIONS OR SUBSEQUENT OWNERS. THE OFFICERS FROM PROPERTY LINES SHOWN HEREON ARE NOT INTENDED TO GUIDE IN THE ERECTION OF FENCES, RETAINING WALLS, POOLS, BLDG. ADDITIONS, LAND, OR OTHER CONSTRUCTION. COVENANTS AND RESTRICTIONS, IF ANY, NOT INDICATED OR SHOWN UNLESS REQUESTED IN WRITING BY CLIENTS OR THEIR REPRESENTATIVE PRIOR TO SURVEY BEING DONE.

No.	REVISION	DATE
△	REMOVED PAVILION	10/30/19
△	REVISED	3/14/18
△	REVISED	5/15/17
△	REVISED	7/15/16
△	UPDATE SITE CONDITIONS	5/13/16
△	GENERAL REVISIONS	6/15/15
△	REV FF EL & GRADES	5/2/15
△	REVISED-OUT OF CONTRACT	3/24/15
△	REVISED LEGEND, VARIOUS OTHERS	3/9/15
△	REVISED SANITARY SEWER, BUILDINGS DRAINAGE	1/30/15
△	REVISED WATER MAIN, DA3 ADDED WATER EASEMENT	2/20/15
△	REVISED VARIOUS NOTES	9/5/14

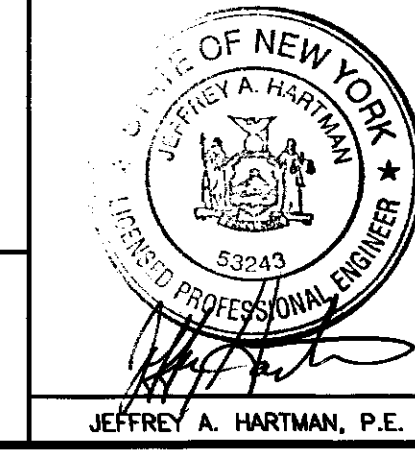
OWNER:
HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

APPLICANT:
HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

TOWN OF HUNTINGTON
COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS
SITUATE AT
HUNTINGTON STATION
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

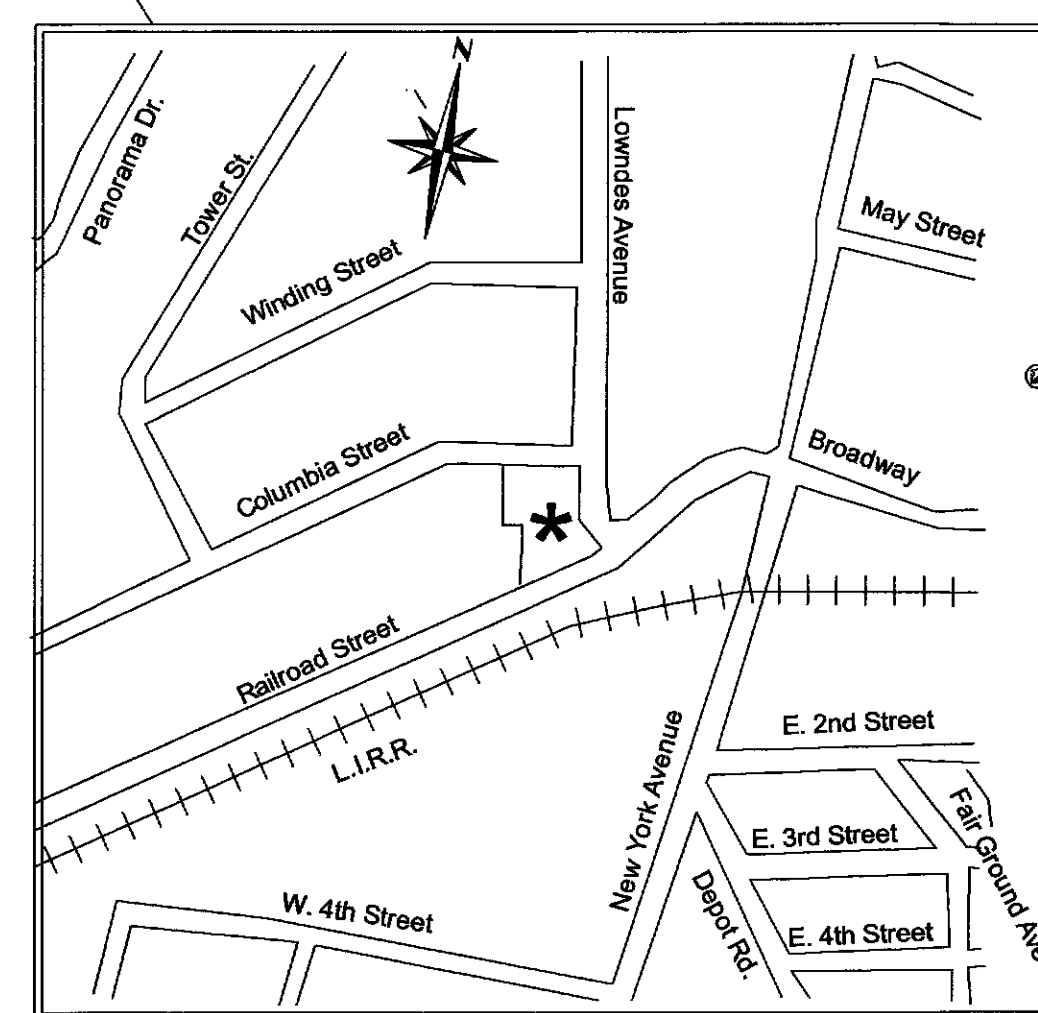
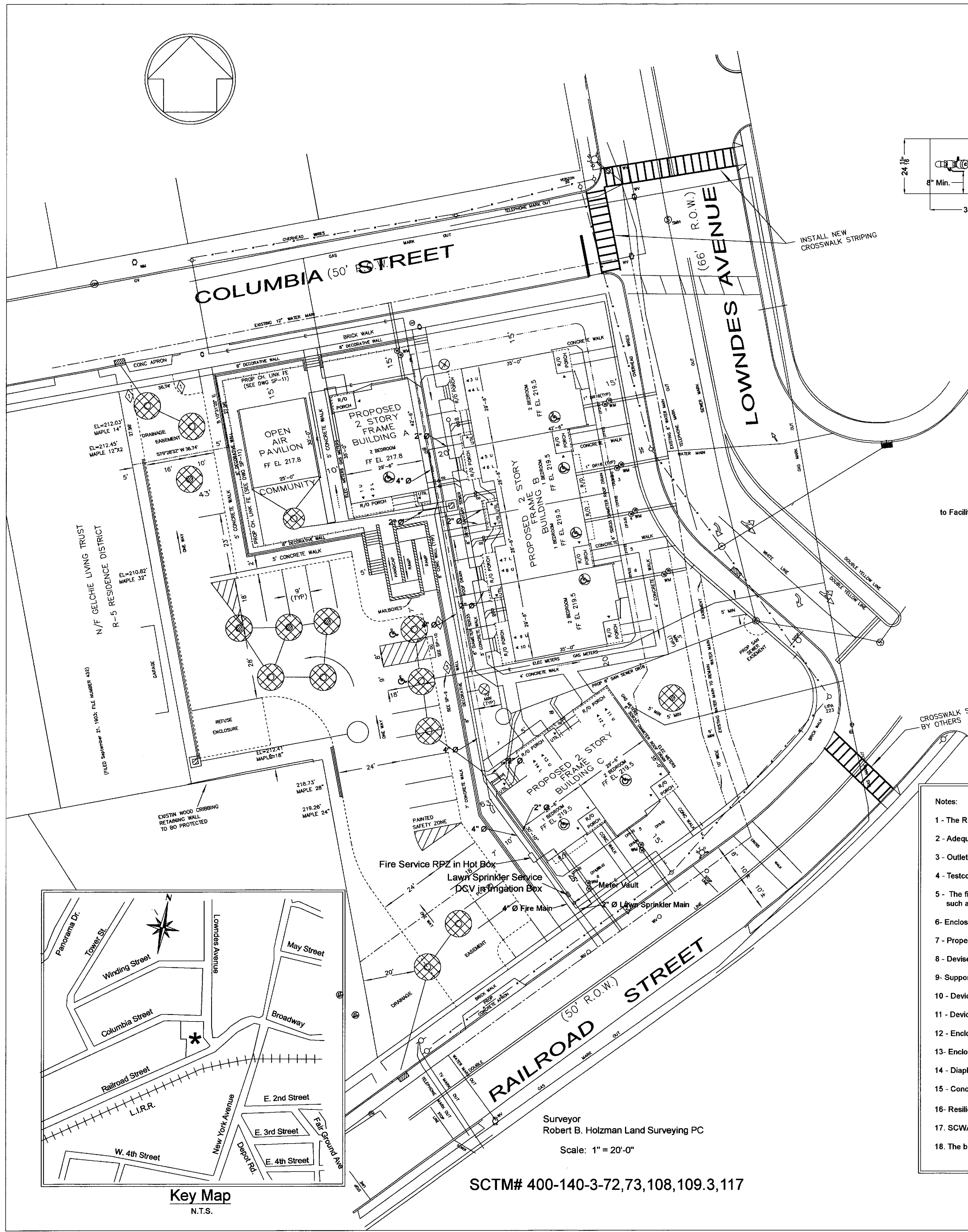
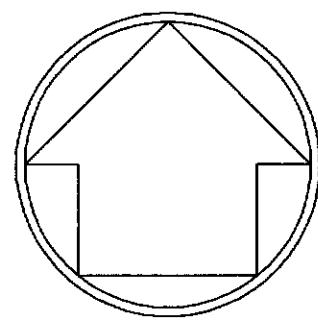
DEVELOPMENT PLAN
CONTRACT No. 2018-100

ENGINEERING BY
BY JEFFREY A. HARTMAN, P.E.
ENGINEERING CONSULTANT
8 ELWIN PLACE
EAST NORTHPORT, NY 11731
Email: harteng0615@gmail.com
PHONE: 631-499-0987 FAX: 631-493-1254



JEFFREY A. HARTMAN, P.E.

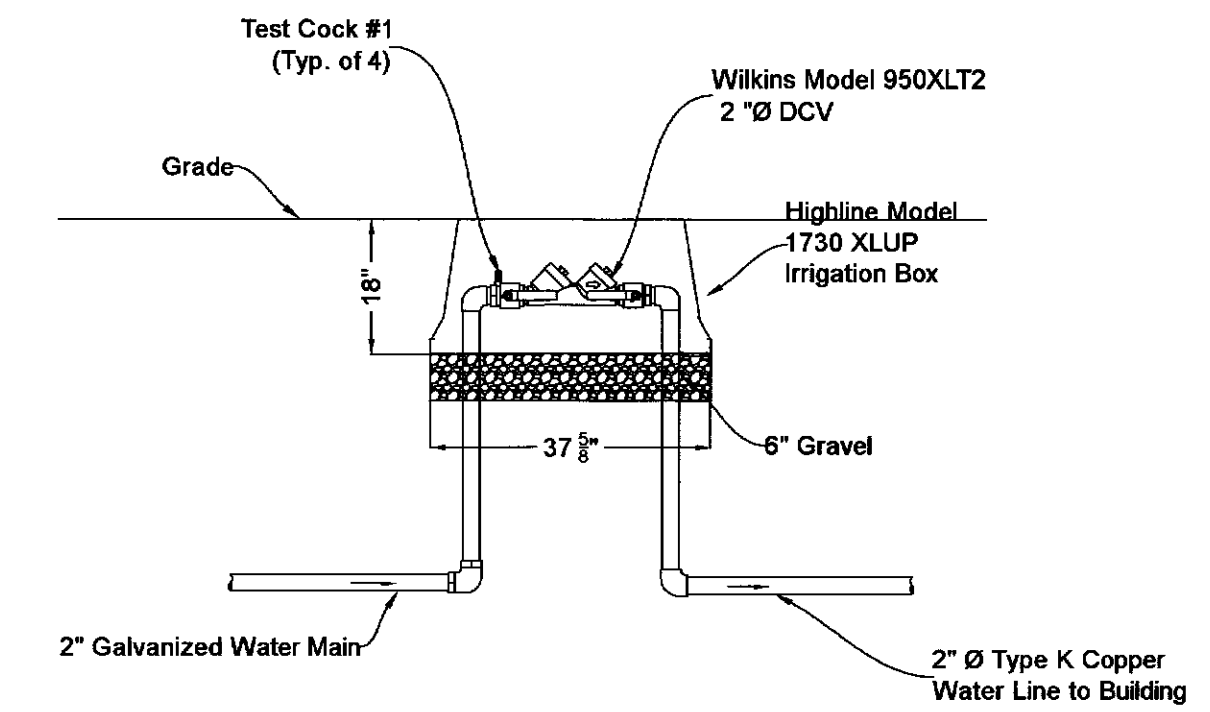
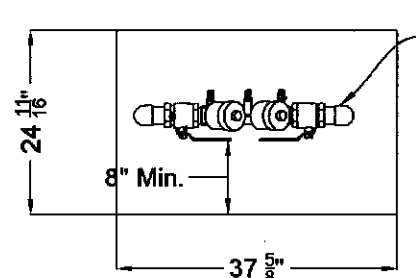
FILE: 400-140-3-72 SCALE: 1"=20' DATE: 4-19-14 DWG: SP-2



Key Map
N.T.S.

Surveyor
Robert B. Holzman Land Surveying PC
Scale: 1" = 20'-0"

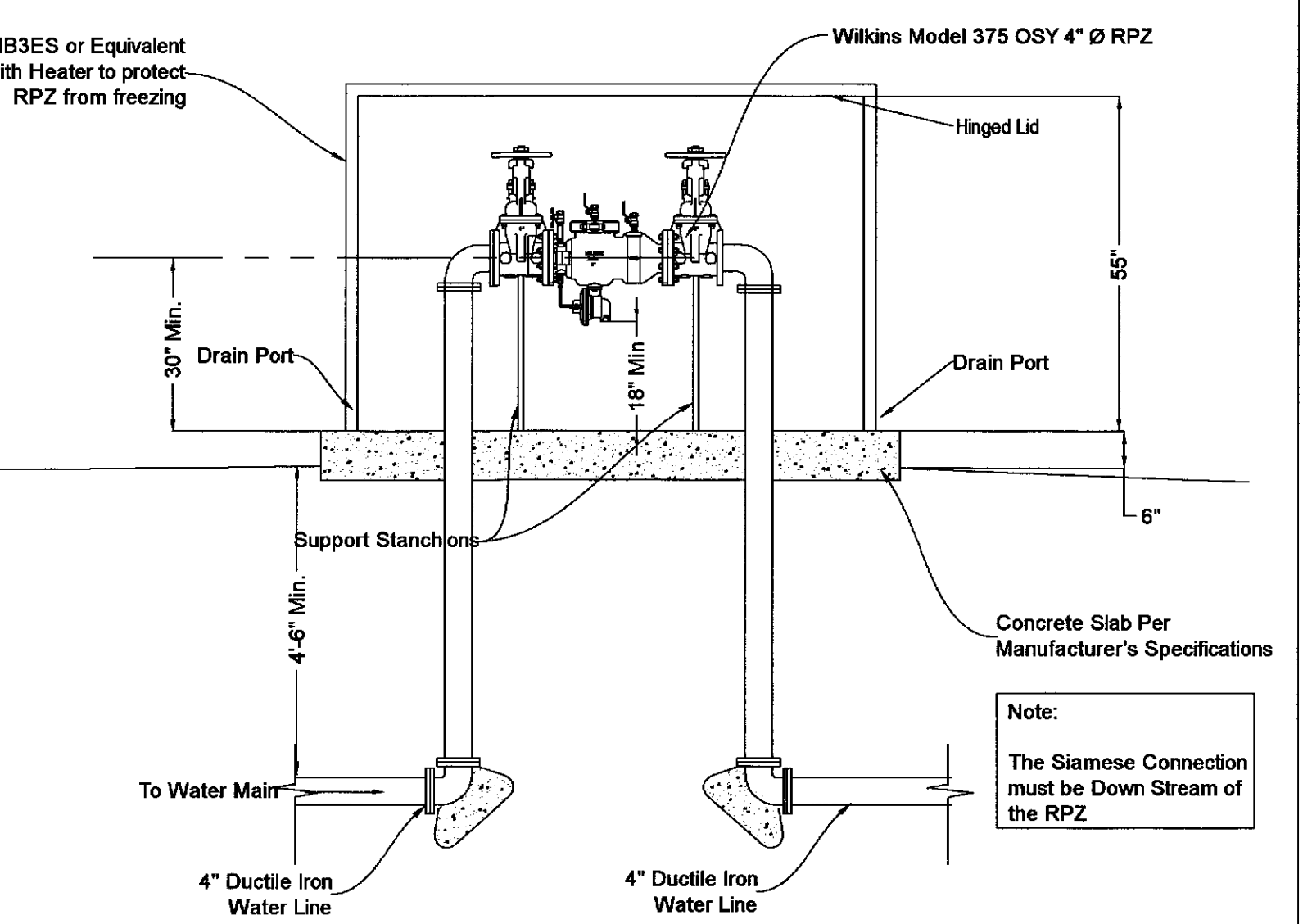
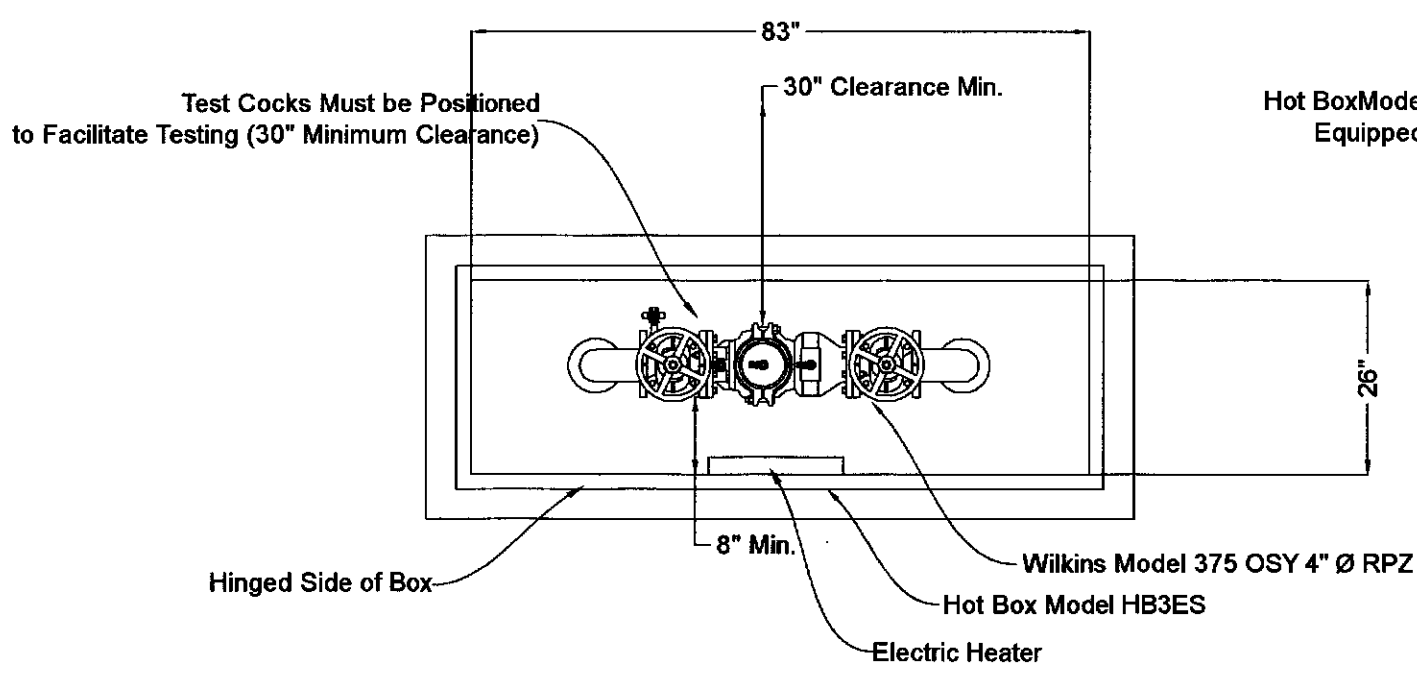
SCTM# 400-140-3-72,73,108,109.3,117



Irrigation Service and DC Valve Plan

SCALE: 1/2" = 1'-0"

- Notes:
- 1 - Test cocks must be positioned to facilitate testing. Test cocks must have 30" clearance once cover is opened
 - 2 - Testcock #1 and testcock #4 both need to be installed on inlet side of each resilient seated valve.
 - 3 - Proper maintenance must be performed.
 - 4 - Devices must be from NYS DOH approved list.
 - 5 - Adequate lighting must be provided.
 - 6 - SCWA only approves ductile iron pipe or galvanized pipe upstream of backflow device.
 7. The backflow prevention assembly must be lead free.



Fireline Service and RPZ Valve Plan

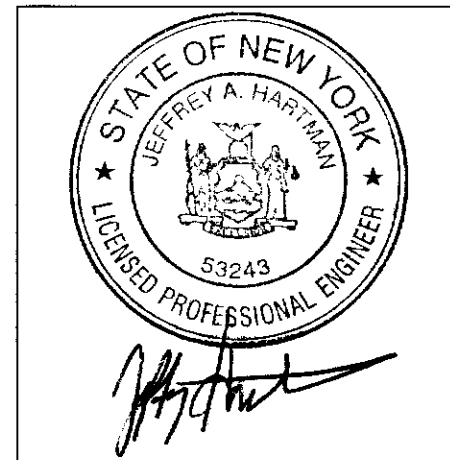
SCALE: 1/2" = 1'-0"

Note:
The Siamese Connection must be Down Stream of the RPZ

- Notes:
- 1 - The RPZ must be protected against freezing.
 - 2 - Adequate electric power must be provided within the box for heat trace tape or space heater.
 - 3 - Outlet must be GFCI and be a minimum of 18" off the slab.
 - 4 - Testcock #1 and testcock #4 both need to be installed on inlet side of each resilient seated valve.
 - 5 - The fire line service is dedicated to the sprinkler system and does not connect to any other devices such as irrigation hose bibs, etc.
 - 6 - Enclosure must have weep holes for drainage.
 - 7 - Proper maintenance must be performed.
 - 8 - Devices must be supported to the concrete slab with pipe stanchions.
 - 9 - Supports must be placed where they will not obstruct the function or access to relief valve.
 - 10 - Devices must be from USC Foundation for Cross Connection approval.
 - 11 - Devices must be tested annually.
 - 12 - Enclosure to be HOT BOX, HYDROCOWL, SAFE-T-COVER, or equal.
 - 13 - Enclosure to be N.Y. designation.
 - 14 - Diaphragm of Febco models must be on the open side of the box.
 - 15 - Concrete slab to be sized according to manufacturer's recommendations.
 - 16 - Resilient seated valves required to be OS & Y on 2 1/2" and larger.
 17. SCWA only approves ductile iron pipe or galvanized pipe upstream of backflow device.
 18. The backflow prevention assembly must be lead free.

Plans are prepared by Condon Engineering, P.C. It is a violation of the New York State Education Law, Article 148, Section 7209, for any person acting under the direction of a licensed Professional Engineer, Architect, or Land Surveyor, to alter any item in any way. If an item bearing the seal of an Engineer, Architect, or Land Surveyor is altered, the altering Engineer, Architect, or Land Surveyor shall affix to the item his/her seal and the notation "Altered" followed by his/her signature and the date of such alterations, and a specific description of the alteration.

CONTRACT CDA 2017-100

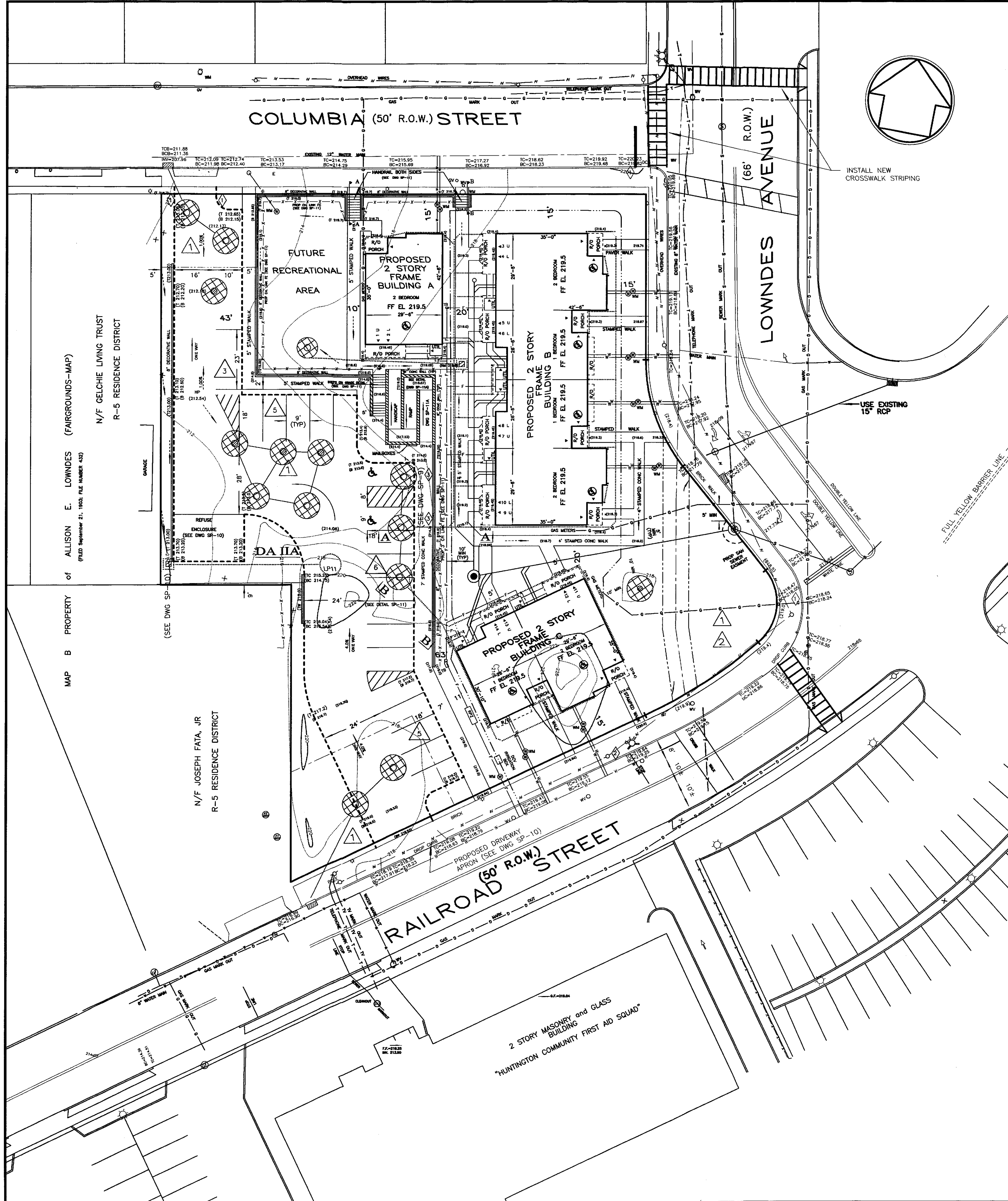


Scale: 1/4" = 1'-0"
Drawn by : JJC
Date : 5-26-2017

Condon Engineering, P.C.
1755 Sigsbee Road
Mattituck, New York 11952
(631) 298-1986

Columbia Street Condominiums
Huntington Station, New York

SP-3



DRAINAGE CALCULATIONS

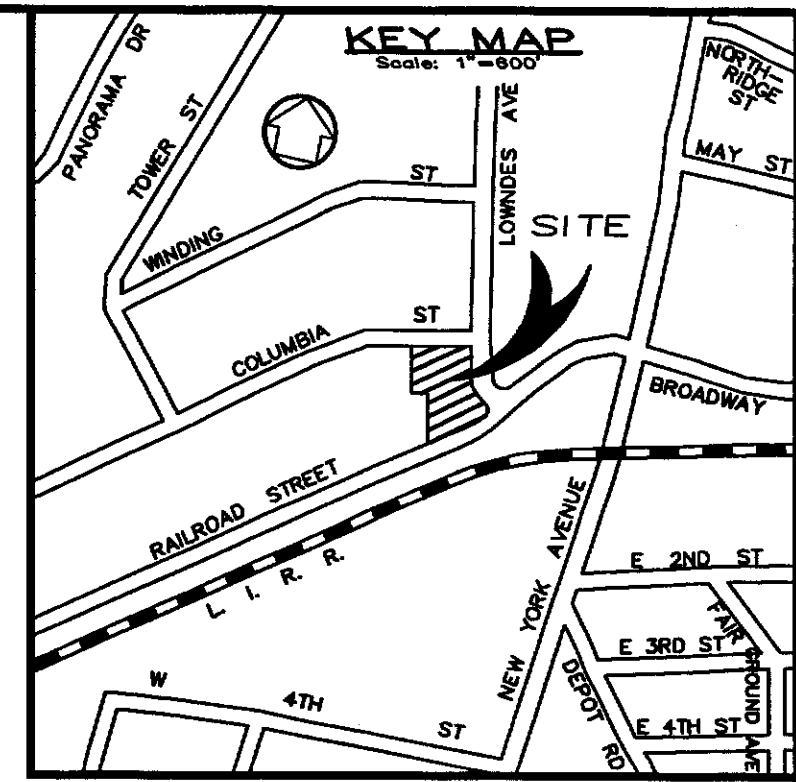
DATA
 GRASS 2834 sf x 0.17 x 3/12 = 120.94 CF
 PROVIDE (1) 4'-0" DEEP x 10'-0" DIA. LP..... = 120 CF (LP11)

HOUSE CONNECTION CHART

BUILDING NUMBER	UNIT NUMBER	STATION	INVERT AT MAIN	INVERT AT BLDG
BUILDING A	1	1+80.6	212.98	213.0
	2	1+89.6	212.95	213.0
	3	2+11.6	213.20	215.5
BUILDING B	4	2+09.6	213.18	215.5
	5	1+84.6	212.91	215.5
	6	1+82.6	212.89	215.5
	7	1+67.6	212.72	215.5
	8	1+65.6	212.70	215.5
BUILDING C	9	1+40.6	212.43	215.5
	10	1+38.6	212.41	215.5
	11	0+79.6	211.75	213.0
	12	0+84.6	211.77	213.0
	13	0+94.6	211.91	213.0
	14	0+96.6	211.94	213.0

LEGEND

- CHAIN LINK FENCE
- OVERHEAD WIRES
- WATER
- WATER (N.I.C.)
- SEWER
- TELEPHONE (N.I.C.)
- GAS (N.I.C.)
- ELECTRIC (N.I.C.)
- STREET LIGHTS (N.I.C.)
- FIRE LINE DWG SP-3
- IRRIGATION LINE DWG SP-3
- DRAINAGE LINES
- UTILITY POLE (N.I.C.)
- LIGHT POLE (N.I.C.)
- HYD. --- HYDRANT (N.I.C.)
- GV --- GAS VALVE (N.I.C.)
- WV --- WATER VALVE (N.I.C.)
- WM --- WATER METER (N.I.C.)
- WS --- WATER SERVICE
- HANDICAP UNIT
- HANDICAP PARKING
- EXIST CONCRETE CURB
- PROPOSED CURB
- U --- UPPER RESIDENTIAL UNIT
- L --- LOWER RESIDENTIAL UNIT
- DECORATIVE WALL
- CONCRETE WALL
- WATER LINE W/WATER METER
- EXISTING (NOT IN CONTRACT)



DRAINAGE CROSSING SEWER MAIN TABLE

CROSSING NUMBER	SEWER TOP PIPE	DRAINAGE BOT. PIPE	CLEAR DISTANCE
1	213.82	216.0	2.18
2	213.50	215.10	1.60
3	213.64	216.0	2.36
4	213.43	216.0	2.57
5	213.32	216.0	2.68
6	213.13	216.0	2.87
7	213.04	216.0	2.96
8	212.86	214.80	1.94
9	213.10	215.2	2.1
10	213.20	215.6	2.4

SEWER CROSSING WATER TABLE

CROSSING NUMBER	WATER BOT PIPE	SEWER TOP PIPE	CLEAR DISTANCE
1	214.0	211.67	2.22

DRAINAGE CROSSING WATER TABLE

CROSSING NUMBER	WATER TOP PIPE	DRAINAGE BOT. PIPE	CLEAR DISTANCE
1	214.0	216.98	2.98
2	214.0	216.60	2.60
3	214.0	216.34	2.34
4	214.0	215.98	1.98
5	214.0	216.21	2.21
6	214.0	215.84	1.84

EXISTING CONTOUR LINES ARE SHOWN ON THIS DRAWING. FINAL SPOT ELEVATIONS ARE INDICATED USING THE ELEVATION ENCLOSED BY PARENTHESIS, e.g. (100.5). FINAL TOPS OF CURBS OR WALLS ARE DESIGNATED BY A "T" FOLLOWED BY AN ELEVATION, e.g. (T 105.4). FINAL BOTTOMS OF WALLS AND CURBS ARE EITHER DESIGNATED BY THE LETTER "B" FOLLOWED BY THE ELEVATION, e.g. (B 100.2) OR THE EXISTING GROUND ELEVATION DESIGNATED BY AN ELEVATION NUMBER USING AN "X" FOR A DECIMAL POINT, e.g. (107x3). 18 LEACHING POOLS SHOWN ON THE PLAN HAVE BEEN INSTALLED WITH THE EXCEPTION OF LP16 WHICH IS TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT.

THE ENTIRE PROPERTY WITHIN THE METES AND BOUNDS SHOWN ON THESE DRAWINGS, IS TO BE DEVELOPED PER THESE PLANS.
 THE CURRENT PROPERTY HAS NO SURFACE STRUCTURES AND THESE PLANS DEPICT CONSTRUCTION NECESSARY TO DEVELOP THE PROPERTY.
 WHERE THE WORDS OTHER THAN "EXISTING" ARE NOTED ON THE DRAWINGS THE DRAWING REPRESENTS REQUIRED CONSTRUCTION. ALSO SEE LEGEND.
 ELEVATIONS SHOWN ARE IN TOWN DATUM.

ESTIMATE OF QUANTITIES

- EXTERIOR**
- PROPOSED CURB 570 LIN. FT.
 - PROPOSED SIDEWALK 570 LIN. FT.
 - PROPOSED FIRE HYDRANT 1
- INTERIOR**
- PROPOSED BUILDINGS 5193 SQ. FT.
 - PROPOSED PAVEMENT 420 CU. YDS.
 - PROPOSED CURB 622 LIN. FT.
 - PROPOSED 4' SIDEWALK 418 LIN. FT.
 - PROPOSED 5' SIDEWALK 276 LIN. FT.
 - PROPOSED 7' SIDEWALK 156 LIN. FT.
 - PROPOSED ADDITIONAL CONC 600 SQ. FT.
 - PROPOSED LIN. FEET OF WALL 490 LIN. FT.
 - PROPOSED 6" SDR35 ROOF DRAINAGE LINE 683 LIN. FT.
 - PROPOSED 8" SDR35 SEWER LINE 217 LIN. FT.
 - PROPOSED SANITARY MANHOLES 1
 - PROPOSED SANITARY CLEANOUT 1
 - PROPOSED SANITARY CLEAN OUT WITH DOUBLE CHECK VALVE 1
 - PROPOSED PARKING (1.5 per UNIT x 14 UNITS) 21 SPACES REQUIRED
 - 21 SPACES PROVIDED (incl 2 HANDICAP SPACES)

No.	REVISION	DATE
1	REMOVED PAVLION	10/30/19
2	REVISED FOR RE-SUBMISSION	3/14/18
3	REVISED FOR RE-SUBMISSION	5/15/17
4	REVISED FOR RE-SUBMISSION	7/15/16
5	UPDATE SITE CONDITIONS	5/13/16
6	GENERAL REVISIONS	6/15/15
7	REV FF EL. & GRADES	5/2/15
8	REVISED-OUT OF CONTRACT	3/24/15
9	REVISED LEGEND, VARIOUS OTHERS	3/9/15
10	REVISED SANITARY SEWER, BUILDING DRAINAGE	1/30/15
11	REVISED WATER MAIN, DA3 ADDED WATER EASEMENT	2/20/15
12	REVISED VARIOUS NOTES	9/5/14

OWNER:
 HUNTINGTON COMMUNITY DEVELOPMENT AGY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

APPLICANT:
 HUNTINGTON COMMUNITY DEVELOPMENT AGY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

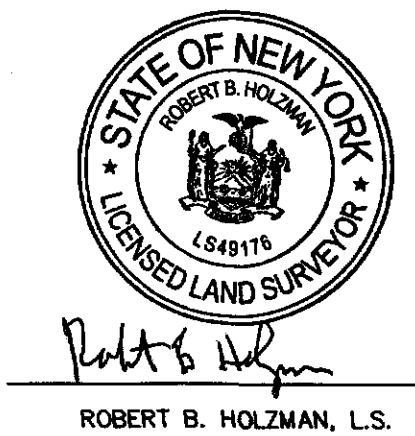
**TOWN OF HUNTINGTON
 COMMUNITY DEVELOPMENT AGENCY
 COLUMBIA TERRACE CONDOMINIUMS**

SITUATE AT
HUNTINGTON STATION
 TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
 DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

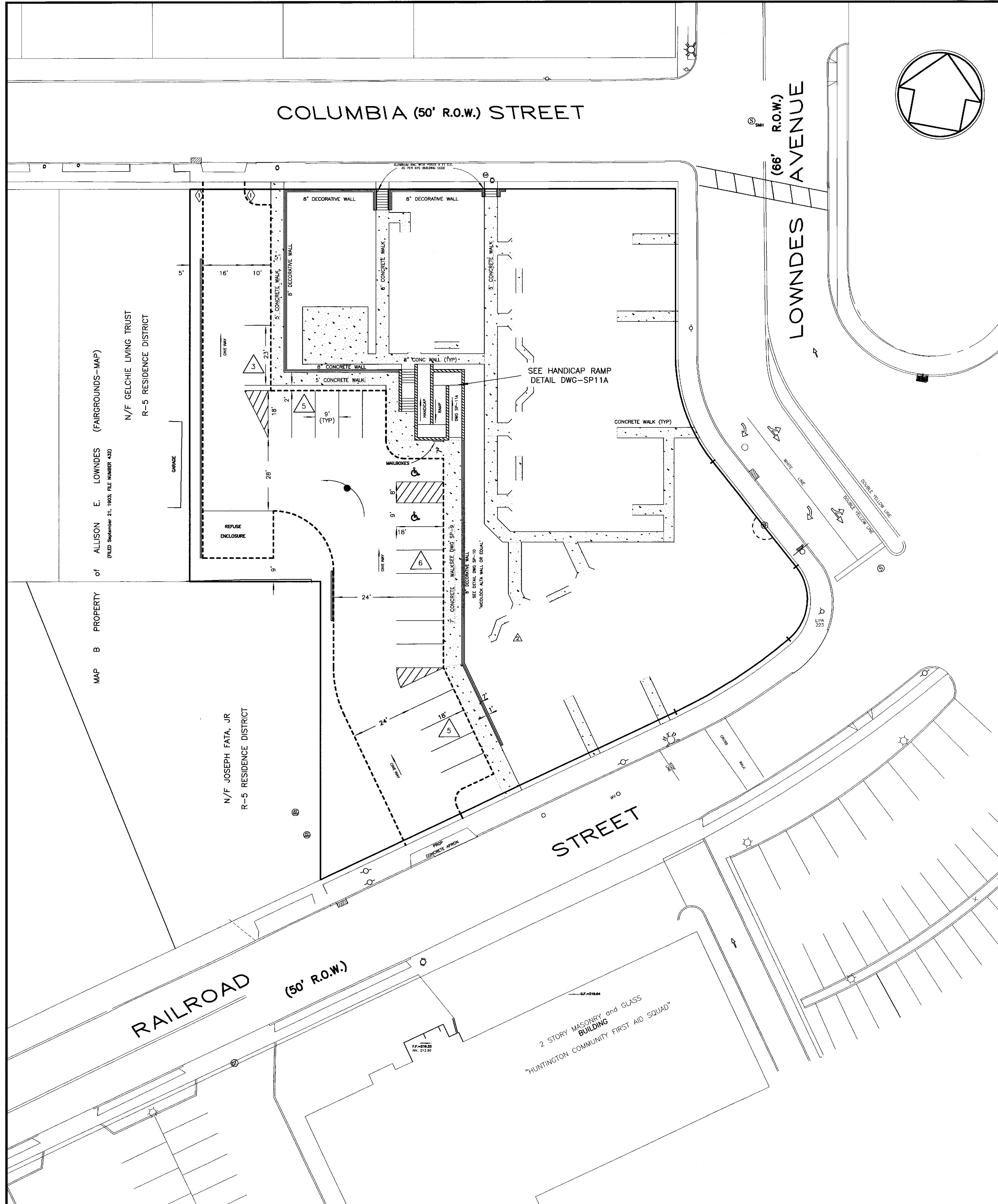
DRAINAGE and GRADING PLAN
 CONTRACT No. 2018-100

ENGINEERING BY
JEFFREY A. HARTMAN, P.E.
 ENGINEERING CONSULTANT
 8 ELWIN PLACE
 EAST NORTHPORT, NY 11751
 Email: harteng0615@gmail.com
 PHONE: 631-499-0987 FAX: 631-493-1254

JEFFREY A. HARTMAN, P.E. FILE: 400-140-3-72 SCALE: 1"=20' DATE: 8-15-14 DWG: SP-4

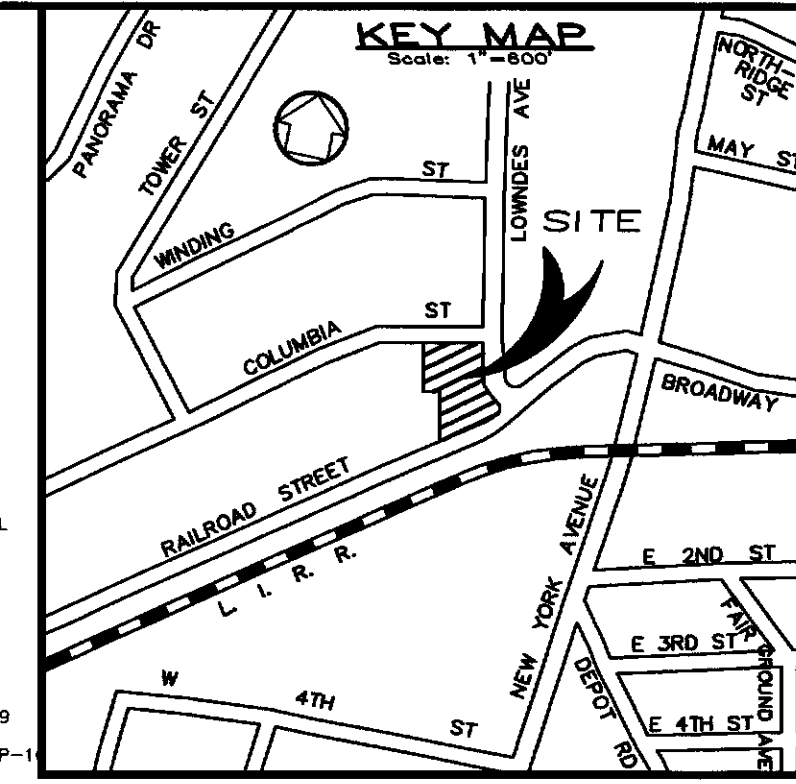


SURVEY and TOPOGRAPHIC INFORMATION BY
ROBERT B. HOLZMAN LAND SURVEYING PC 2014
 LICENSED LAND SURVEYOR, N.Y.S. LIC. NO. 49176
 1029 WILLIAM FLOYD PARKWAY, SUITE 3
 SHIRLEY, NY 11957
 PHONE: 631-281-0162 FAX: 631-281-0292
 Email: rbhls@optonline.net



LEGEND

---	CHAIN LINK FENCE	SMH	SANITARY MH (N.I.C.)
---	OVERHEAD WIRES	E	ELECTRIC MANHOLE (N.I.C.)
---	WATER	T	TELEPHONE MANHOLE (N.I.C.)
---	WATER (N.I.C.)	DMH	DRAINAGE MANHOLE COVER
---	SEWER	MH	MANHOLE COVER
---	TELEPHONE (N.I.C.)	CB	CATCH BASIN
---	GAS (N.I.C.)	TC	TOP OF CURB DWG SP-4
---	ELECTRIC (N.I.C.)	BC	BOTTOM OF CURB DWG SP-4
---	STREET LIGHTS (N.I.C.)	BW	BACK OF WALK / BOTTOM OF WALL
---	FIRE LINE DWG SP-3	TW	TOP OF WALL
---	IRRIGATION LINE DWG SP-3	FD	FLOW DIRECTION
---	DRAINAGE LINES	DC	DROP CURB SEE DWG SP-10
---	UTILITY POLE (N.I.C.)	---	SIGN
---	---	HYDRA	HYDRANT (N.I.C.)
---	---	GV	GAS VALVE (N.I.C.)
---	---	WV	WATER VALVE (N.I.C.)
---	---	WM	WATER METER (N.I.C.)
---	---	WS	WATER SERVICE
---	---	---	HANDICAP UNIT
---	---	---	HANDICAP PARKING
---	---	---	EXIST CONCRETE CURB
---	---	---	PROPOSED CURB
---	---	---	UPPER RESIDENTIAL UNIT
---	---	---	LOWER RESIDENTIAL UNIT
---	---	---	DECORATIVE WALL
---	---	---	CONCRETE WALL
---	---	---	WATER LINE W/WATER METER



N.I.C. = NOT IN CONTRACT

ALL INTERIOR WALKS TO BE CONCRETE, SEE DWG SP-9. EXCEPT HANDICAP RAMP

THE ENTIRE PROPERTY WITHIN THE METES AND BOUNDS SHOWN ON THESE DRAWINGS, IS TO BE DEVELOPED PER THESE PLANS.

THE CURRENT PROPERTY HAS NO SURFACE STRUCTURES AND THIS PLANS DEPICT CONSTRUCTION NECESSARY TO DEVELOP THE PROPERTY.

FOR EXISTING CONDITIONS, SEE DWG SP-1. ALL CONDITIONS NOT ALSO ON THE SURVEY DWG SP-1, CONSTITUTE NEW WORK TO BE CONSTRUCTED UNDER CONTRACT NUMBER

ALL LOWER UNITS ARE HANDICAP ACCESSIBLE.

MAP NOTES

- THIS MAP ALSO SHOWS PROPOSED AND NEW PROPERTY LINE AND PROPOSED PRELIMINARY REVISIONS TO CURBING AND ISLANDS.
- ELEVATIONS IN TOWN DATUM.
- RAILROAD STREET TO BE RE-ALIGNED.
- ALL UTILITIES LYING WITHIN PROPOSED NEW PROPERTY LINES TO BE RE-ROUTED.
- ALL ROADS ARE OWNED BY THE TOWN OF HUNTINGTON.

SITE STATISTICS

AREA OF SITE = 42,395 Sq. Ft. or 0.973 Acres.

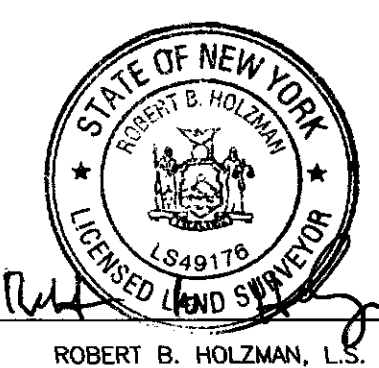
SITE DATA

- PSEG LONG ISLAND
- HUNTINGTON MANOR FIRE DISTRICT
- HUNTINGTON SCHOOL DISTRICT No 3
- HUNTINGTON SEWER DISTRICT
- HUNTINGTON STATION POST OFFICE 11746
- NATIONAL GRID (GAS)
- SUFFOLK COUNTY WATER AUTHORITY (SCWA)

No.	REVISION	DATE
1	REVISED FOR RE-SUBMISSION	5/15/17
2	REVISE WALK AND LEGEND	7/15/16
3	GENERAL REVISIONS	6/15/15
4	REVISED RAMP, WALKS	5/2/15
5	REVISED WALK TYPE	3/24/15
6	REVISED LEGEND, REV WALL DESC.	3/9/15
7	NO CHANGES THIS SHEET	2/20/15
8	REVISED WATER MAIN, DA3 ADDED WATER, TEL EASEMENTS	1/30/15
9	REVISED LEGEND	9/5/14

ARCHITECTURAL DESIGN BY
JAMES V. De LUCCA
 REGISTERED ARCHITECT
 12 LINDA LANE EAST
 RIVERHEAD, NY 11901
 631-727-1611

JAMES V. De LUCCA, R.A.



SURVEY and TOPOGRAPHIC INFORMATION BY
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UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW.
 COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL SHALL NOT BE CONSIDERED TO BE A TRUE VALID COPY.
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 THE OFFICES FROM PROPERTY LINES SHOWN HEREON ARE NOT INTENDED TO GUIDE IN THE ERECTION OF FENCES, RETAINING WALLS, POOLS, BLDG. ADDITIONS, AND / OR OTHER CONSTRUCTION.
 COVENANTS AND RESTRICTIONS, IF ANY, NOT ADDED OR SHOWN UNLESS REQUESTED IN WRITING BY CLIENTS OR THEIR REPRESENTATIVE PRIOR TO SURVEY BEING DONE.
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TOWN OF HUNTINGTON
 COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS
 SITUATE AT
HUNTINGTON STATION
 TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
 DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

PAVEMENT and WALKS
 CONTRACT No. 2017-100

ENGINEERING BY
JEFFREY A. HARTMAN, P.E.
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 EAST NORTHPORT, NY 11751
 Email: harteng0615@gmail.com
 PHONE: 631-499-0987 FAX: 631-493-1254
 FILE: 400-140-3-72 SCALE: 1"=20' DATE: 8-15-14 DWG: SP-5

Specifications for Fire Water Main and Associated Appurtenances

General Notes:

- All work is to be performed in accordance with the requirements of the NFPA standards, Fire Code of NYS, Local Law of the Town of Huntington, Approved site plan requirements, Division of Fire Prevention requirements and the approved permit / plans, the Suffolk County Department of Health Services and the Suffolk County Water Authority. The contractor shall obtain all permits necessary for the complete performance of the work.
- The contractor will guarantee all work for a period of one year from the date of the owner's final written acceptance. During the one year period, the contractor shall repair or replace, at his own cost and expense all equipment supplied and all contract work performed and installed under the contract that is found to be defective all remedial work shall be performed to the satisfaction of the owner and all agencies having jurisdiction.
- Prior to excavation, the contractor shall investigate to the extent necessary the presence of any underground utilities in the area of the proposed work. Any existing utilities encountered shall be protected with sheeting, bracing or other approved means. The contractor shall coordinate any utility relocations required with the utility owner. The contractor is advised all subsurface information shown on these plans is conceptual and must be confirmed accordingly in the field.
- The Town of Huntington Fire Marshal and the Suffolk County Department of Health Services shall be notified at least 24 hours in advance of commencing work, admitting water to a new section, flushing or blowing off mains, or chlorination of newly installed mains. See "Acceptance Testing/Inspection Requirements"
- The contractor shall be responsible for securing all necessary permits before commencing work.
- During construction, erosion and sediment control measures are to be utilized as necessary to prevent the transport of sediment to off-site areas, ponds, drainage inlets, etc. The methods and materials employed in the installation and maintenance of erosion control measures shall conform to "the New York Guidelines for Erosion and Sediment Control".
-
- Pedestrian and automobile traffic shall be maintained and protected in accordance with the applicable provisions of the New York State Manual of Uniform Traffic Control Devices. Suitable barriers and caution signs shall be placed and maintained around all excavation and parked equipment.
-
- The contractor must repair or replace any damage to adjacent curbs, sidewalks, lawn area, shrubs, etc. at his own expense in accordance with applicable town, county and/or state specifications, as early as practical to the satisfaction of the owner.
- All water main pipe and services to be installed with a minimum of 54 inches of cover.

Installation:

- Water mains shall be laid to the lines and grades established by the plans and specifications unless directed otherwise by the owner or his representative. Trenches shall be excavated to the required alignment, depth and width and in conformance with all federal, state and local regulations.
- When the subgrade is found to be unstable or to include ashes, cinders refuse, organic material or other unsuitable material, such material shall be removed to a minimum of six (6) inches, or to the depth ordered by the Engineer, and replaced under the direction of the Engineer with clean, stable granular backfill material.
- Concrete thrust blocking shall be applied on all pipelines 4-inch in diameter or larger at all tees, plugs, caps and at bends deflecting 22-1/2 degrees or more. Blocking shall be of concrete of a mix having a compressive strength of not less than 2,000 PSI. Blocking shall be placed between solid ground and the fitting to be anchored, as shown on the plans.
- The contractor shall be required to use approved means to keep water out of the trenches while pipe is being laid and away from the joints until they have set.
- Backfilling shall be accomplished with materials approved by the Engineer in accordance with the plans, all backfill material shall be free from cinders, ash, refuse, vegetable or organic material, boulders, rocks or stones 1-1/2 inches or larger in size, frozen soil, or other material that, in the opinion of the Engineer is unsuitable backfill. Compaction of pipe trenches shall be in accordance with the details on the plans.

Ductile Iron Piping:

Materials:

- Ductile iron mechanical joint fittings and piping will be utilized unless otherwise indicated on the drawings. Ductile iron fittings shall have the letters "DI" or "Ductile" cast on them.
- Pipes and fittings with mechanical joint flanges shall conform to the dimensions, weights, tolerances, etc., for gray iron and/or ductile iron in A.N.S.I./A.W.W.A. Specification C1110 latest revision.
- Ductile iron fittings shall have a pressure rating of .350 PSI up to and including 24-inch diameter
- Fittings shall have directly cast upon them the manufacturer's identification, pressure rating, nominal diameter of openings, and the number of degrees or fraction of the circle on all bends.
- Mechanical joint fittings shall be used with "push-on" joint pipe with the joint conforming to A.N.S.I. Specification A21.11 latest revision or A.W.W.A. Specification C111 latest revision.
- All fittings shall be cement-lined in accordance with A.W.W.A. Specification C104 latest revision, or A.N.S.I. Specification A21.4 latest revision.

Installation:

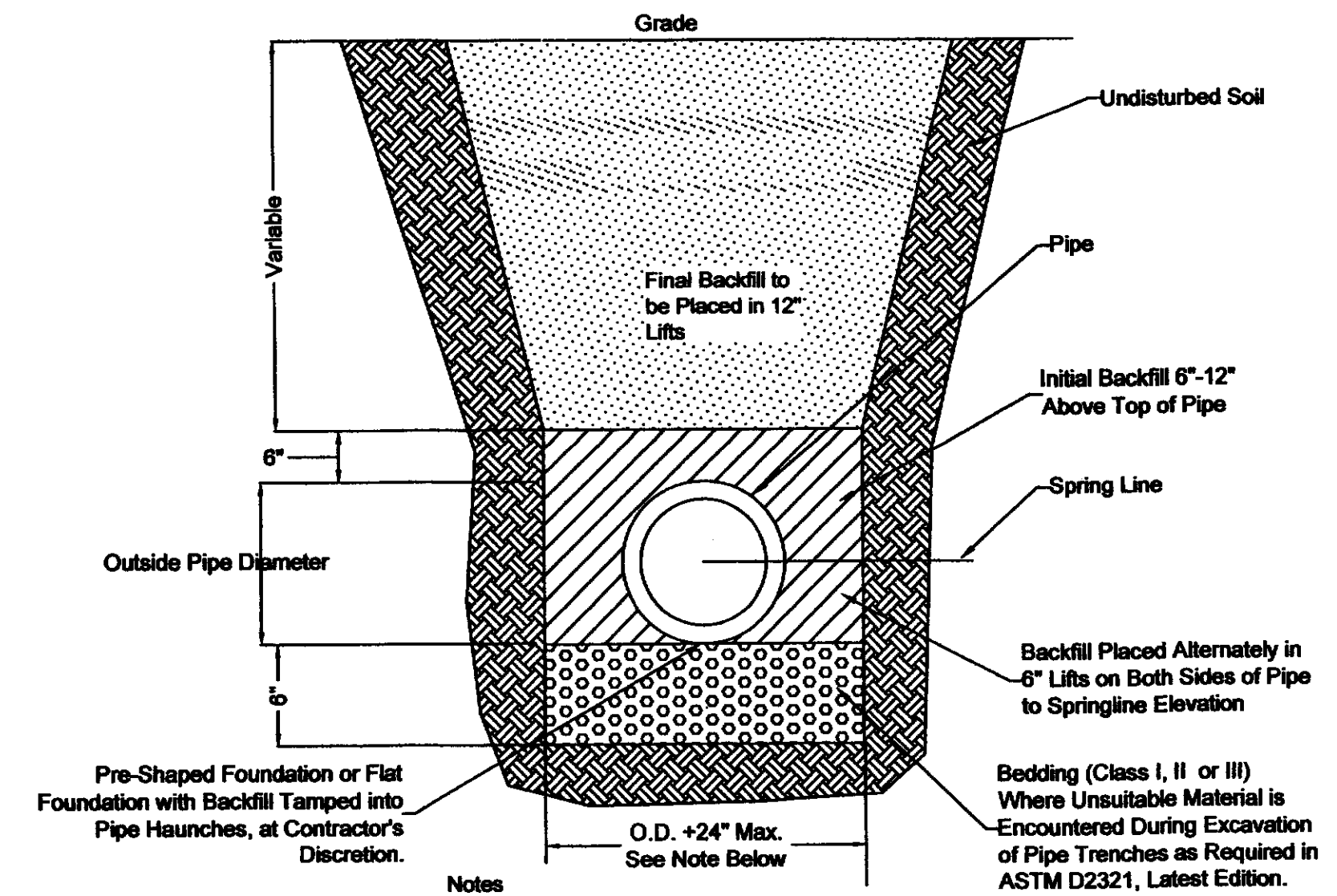
- The joint deflection for mechanical joints shall not exceed 5 degrees (either 19 inch offset for an 18 foot length of pipe or 21 inch offset for a 20 foot length of pipe) for sizes 6 inch through 12-inch diameter. Assembled joints should not be deflected.
- Water mains shall be laid to the lines and grades established by the plans and specifications unless directed otherwise by the owner or his representative. Trenches shall be excavated to the required alignment, depth and width and in conformance with all federal, state and local regulations.
- When the subgrade is found to be unstable or to include ashes, cinders refuse, organic material or other unsuitable material, such material shall be removed to a minimum of six (6) inches, or to the depth ordered by the Engineer, and replaced under the direction of the Engineer with clean, stable granular backfill material.
- Concrete thrust blocking shall be applied on all pipelines 4-inch in diameter or larger at all tees, plugs, caps and at bends deflecting 22-1/2 degrees or more. Blocking shall be of concrete of a mix having a compressive strength of not less than 2,000 PSI. Blocking shall be placed between solid ground and the fitting to be anchored, as shown on the plans.
- The contractor shall be required to use approved means to keep water out of the trenches while pipe is being laid and away from the joints until they have set.
- Backfilling shall be accomplished with materials approved by the Engineer in accordance with the plans, all backfill material shall be free from cinders, ash, refuse, vegetable or organic material, boulders, rocks or stones 1-1/2 inches or larger in size, frozen soil, or other material that, in the opinion of the Engineer is unsuitable backfill. Compaction of pipe trenches shall be in accordance with the details on the plans.

Acceptance Testing / Inspection Requirements:

- A Fire Marshal from the Town of Huntington, Division of Fire Prevention shall witness the following:
 - All piping, valves, elbows, tees, etc. (prior to backfilling)
 - Joint Restraint (prior to backfilling).
 - Hydrostatic test of all components of the system, in compliance with NFPA 24 10.10.2.2 - Hydrostatic Test. Hydrostatic testing shall be done prior to back filling, unless the contractor acknowledges responsibility for excavation to locate any and all leaks.
 - Flushing of all components of the fire service mains. Minimum flow rates for flushing shall comply with NFPA 24, 10.10.2.1.3 Flushing of Piping. Flushing shall be conducted prior to making connection to the building and / or fire protection systems, i.e. fire sprinkler systems, fire pumps, etc.
 - Backflow Prevention Assemblies: Shall be tested in compliance with NFPA 24 10.10.25.5 - Backflow Prevention Assemblies.
 - Flow Testing: A flow test will be conducted by an accepted method and documented on a Town of Huntington Fire Hydrant / Fire Service Main Test Report.
- Installation contractor shall submit an approved version of an Underground Piping Certificate (fully completed and signed)

Note: It is the policy of the Division of Fire Prevention that all portions of the acceptance testing be conducted in the presence of a Fire Marshal from this Division. Any and all portions of the system not visually inspected prior to backfilling WILL be required to be excavated to expose the portions not previously inspected.

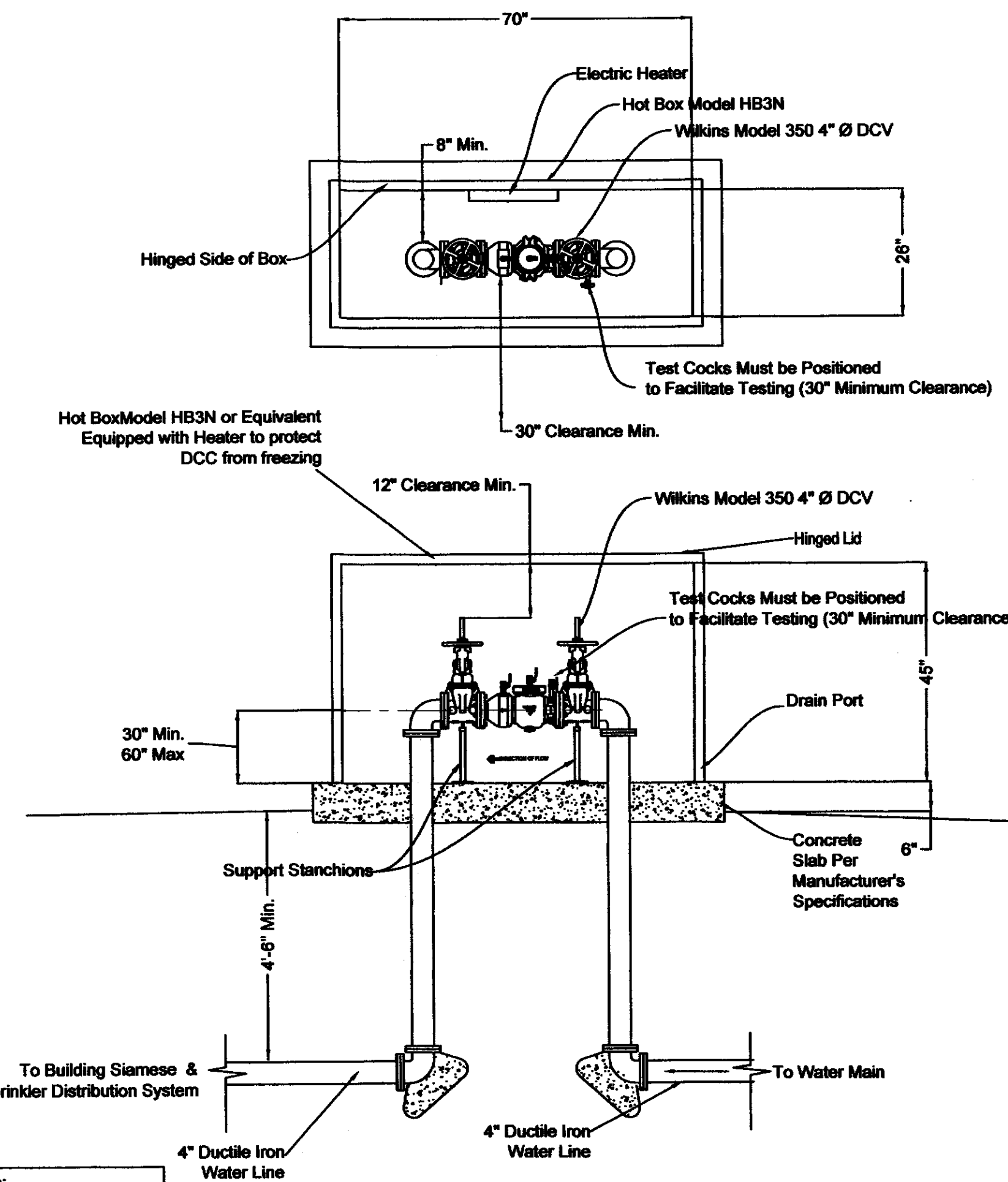
Note: It shall be the responsibility of the contractor / property owner to ensure that all necessary precautions are taken to safeguard the property from damage due to excessive water flow, such as, flooding of structures, damage landscaping, etc.



- Notes**
- Class I, II, III or IV Compacted Backfill Material Required in all Pipe Zones, per USCS (Unified Soil Classification System).
 - The Contractor Must Provide Sheeting and Bracing or a Sheeting Box in Accordance with Latest OSHA Regulations. The Trench Walls May Be Cut Back to a 1:1 Slope or the Natural Angle of Repose for the Soil Whichever is Greater at the Discretion of the Engineer.
 - Where pipe is installed with less than 2' of cover, all backfill material throughout the pipe zone is to be class I material.
 - Where the Trench Bottom is Unstable, The Contractor Shall Excavate to a Depth Required by the Engineer and Replace with a Foundation of Class I or II Material as Defined in ASTM D2321, "Standard Practice for Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications," Latest Edition; as an Alternative and at the Discretion of the Engineer, the Trench Bottom May be Stabilized Using a Woven Geotextile Fabric.

Pipe Trench Section

Not to Scale



Notes:

- The device must be protected against freezing.
- Adequate electric power must be provided within the box for heat trace tape or space heater.
- Outlet must be GFCI and be a minimum of 18\"/>

Note:
The Siamese Connection must be Down Stream of the DCV

Fireline Service and Double Check Valve Plan

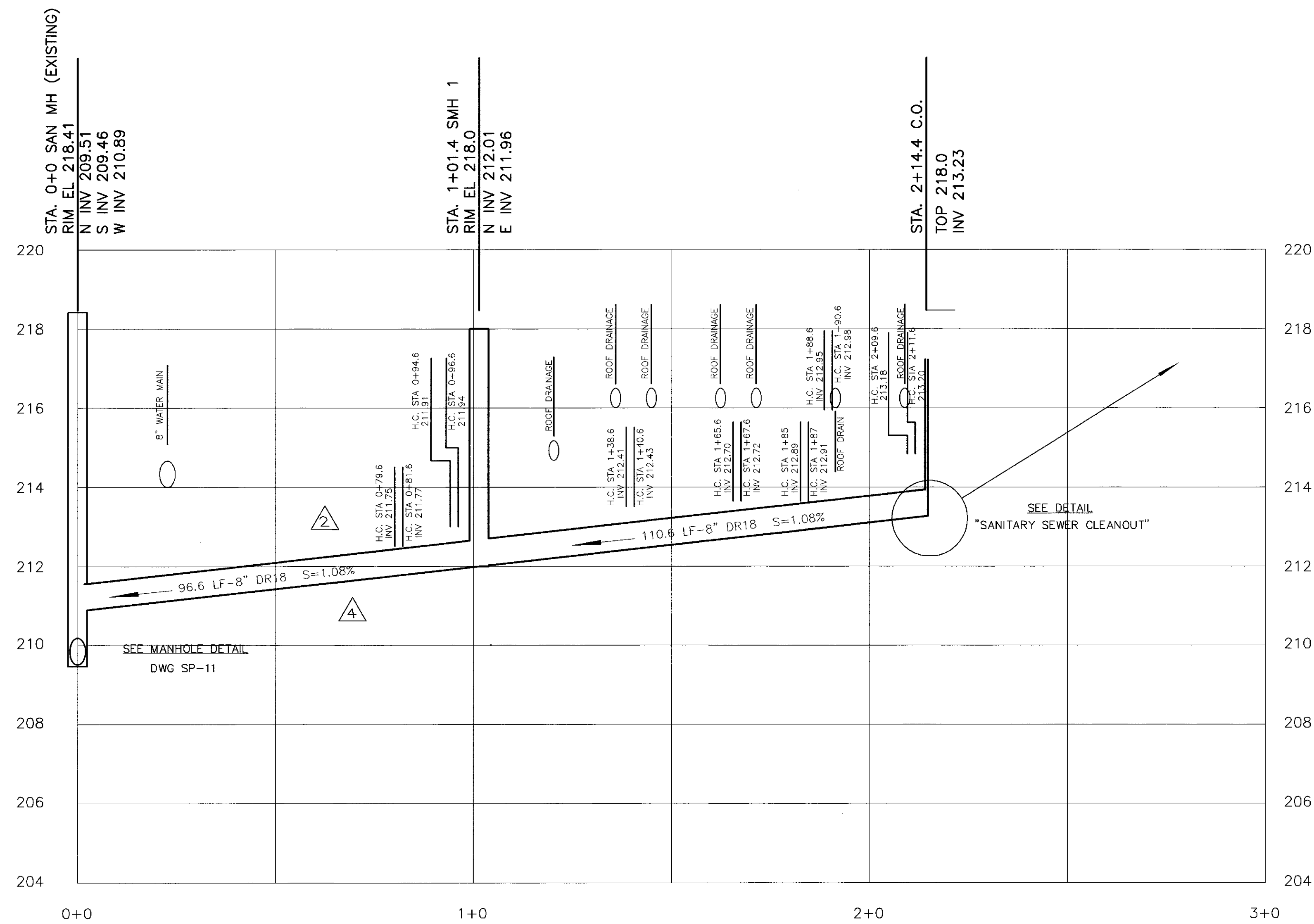
SCALE: 1/2" = 1'-0"

Scale: 1/4" = 1'-0"	Condon Engineering, P.C. 1755 Sigsbee Road Mattituck, New York 11952 (631) 298-1986	Columbia Street Condominiums Huntington Station, New York	SP-6
Drawn by: JJC			
Date: 11-1-2014			

CONTRACT CDA 2017-100

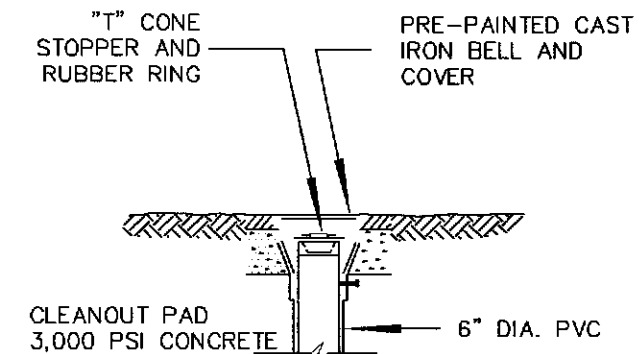
Plans are prepared by Condon Engineering, P.C. It is a violation of the New York State Education Law, Article 145, Section 7209, for any person unless acting under the direction of a licensed Professional Engineer, Architect, or Land Surveyor, to alter any item in any way. If an item bearing the seal of an Engineer, Architect, or Land Surveyor is altered, the altering Engineer, Architect, or Land Surveyor shall affix to the item his/her seal and the notation "Altered by" followed by his/her signature and the date of such alteration, and a specific description of the alteration.



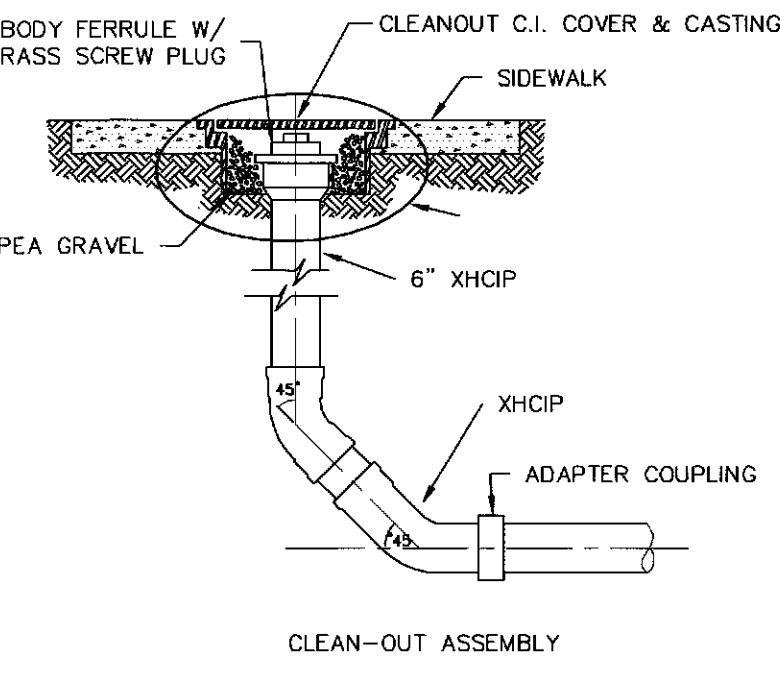


SANITARY SEWER PROFILE

HOUSE CONNECTION CHART				
BUILDING NUMBER	UNIT NUMBER	STATION	AT MAIN	AT BLDG
BUILDING A	1	1+90.6	212.98	213.0
	2	1+88.6	212.95	213.0
BUILDING B	3	2+11.6	213.20	215.5
	4	2+09.6	213.18	215.5
	5	1+84.6	212.91	215.5
	6	1+82.6	212.89	215.5
	7	1+67.6	212.72	215.5
	8	1+65.6	212.70	215.5
	9	1+40.6	212.43	215.5
BUILDING C	10	0+38.6	212.41	215.5
	11	0+79.6	211.75	213.0
	12	0+81.6	211.77	213.0
	13	0+94.6	211.91	213.0
	14	0+96.6	211.94	213.0



DETAIL "A"
(FOR RESIDENTIAL HOUSE CONNECTION
IN LAWN & GARDEN LOCATIONS)



SANITARY SEWER CLEANOUT

NTS

CONSTRUCTION NOTES

- A 3-INCH MINIMUM WIDTH DETECTABLE MARKING TAPE, GREEN IN COLOR AND MARKED WITH THE WORDS "CAUTION - SANITARY SEWER", SHALL BE INSTALLED 18 TO 24-INCHES ABOVE THE CROWN OF THE SEWER.
- SUBMITTALS SHALL BE SENT BY THE CONTRACTOR TO THE DISTRICT FOR REVIEW AT LEAST TWO WEEKS PRIOR TO INSTALLATION OF THE PROPOSED SEWER PIPE AND FITTINGS, MARKING TAPE, MANHOLES, CONCRETE/GROUT, FOR MANHOLE BENCH, AND MANHOLE FRAMES AND COVERS.
- RECORD DRAWINGS OF THE SEWER INSTALLATION SHALL BE SUBMITTED TO THE DISTRICT.
- SANITARY SEWER MANHOLE TO BE DESIGNED TO MEET AASHTO H-20 LOADING.
- A #2 STEEL HOOP AROUND OPENINGS.
- ELEVATIONS SHOWN ARE IN TOWN DATUM.
- 10' MINIMUM BETWEEN SEWER AND WATER/FIRE SERVICE LINES.
- 5' MINIMUM BETWEEN SEWER AND GAS SERVICE LINES.
- HEAVY DUTY CAST IRON CLEANOUTS TO BE INSTALLED A MINIMUM OF 5' FROM THE FOUNDATION.

DESIGN FLOW

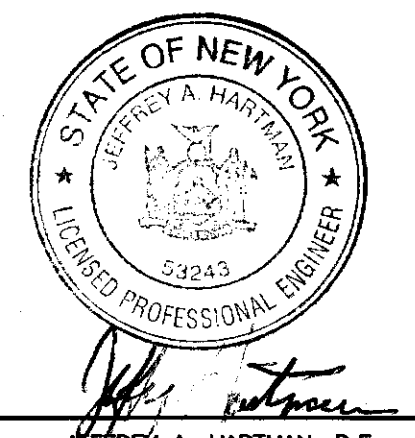
- 14 RESIDENTIAL UNITS
- FIRST FLOOR 1 BEDROOM = 756 Sq. Ft.
- SECOND FLOOR 1 BEDROOM = 840 Sq. Ft.
- FIRST FLOOR 2 BEDROOM = 1119 Sq. Ft.
- SECOND FLOOR 2 BEDROOM = 1212 Sq. Ft.
- RESIDENTIAL HOUSING UNITS BETWEEN 601-1200 SF, GFA=225 gpd/unit
- RESIDENTIAL HOUSING UNITS GREATER THAN 1200 SF, GFA=300 gpd/unit
- 10 UNITS x 225 gpd = 2250 GPD
- 4 UNITS x 300 gpd = 1200 GPD = 3450 GPD

No.	REVISION	DATE
1	REVISED FOR RE-SUBMISSION	5/15/17
2	REVISED FOR RE-SUBMISSION	7/15/18
3	REV GRADES, ADD HOUSE CONNECTION CHART	5/13/18
4	NO CHANGES THIS SHEET	6/15/15
5	ADD DETAIL, DESIGN FLOW CALCS	3/24/15
6	REVISE PIPE GRADE	3/9/15
7	CONNECT TO MANHOLE, REVISE CROSSINGS	2/20/15
8	WATER MAIN CROSSING	1/30/15
9	NO CHANGES THIS SHEET	9/5/14

OWNER:
HUNTINGTON COMMUNITY DEVELOPMENT AGY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

APPLICANT:
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ATTENTION: BRUCE GRANT
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TOWN OF HUNTINGTON
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DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

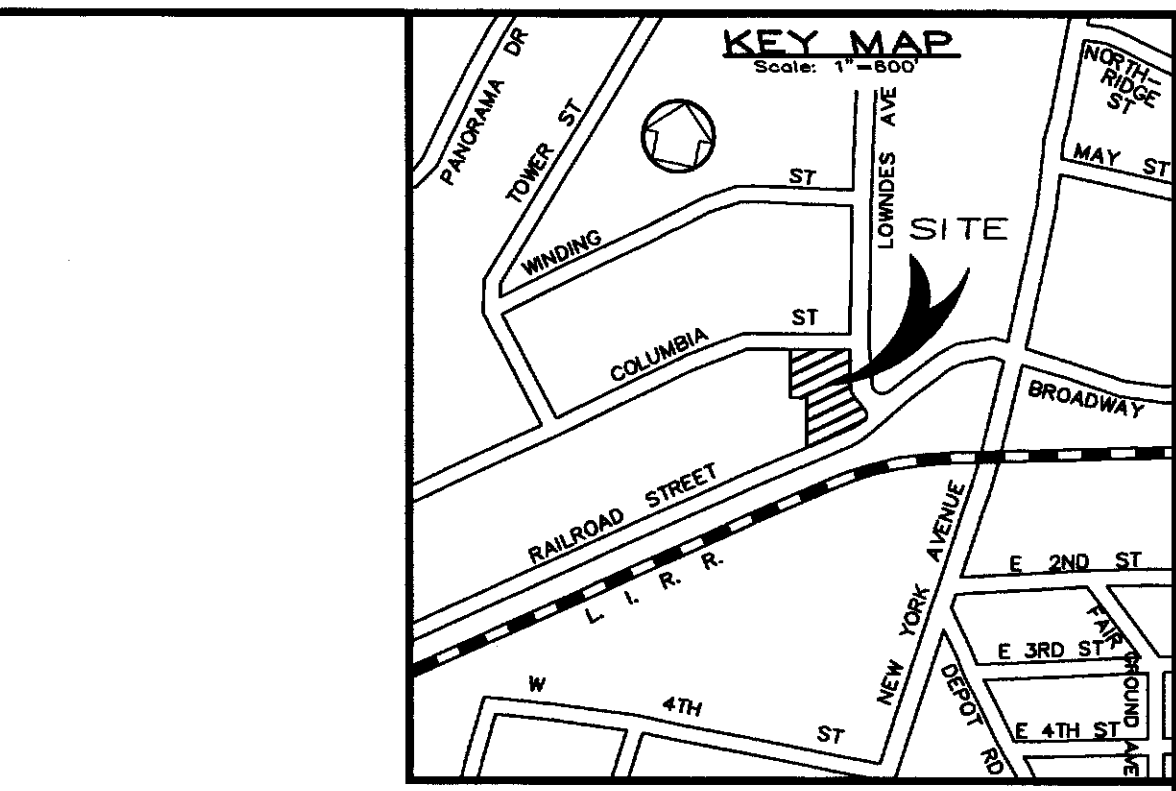
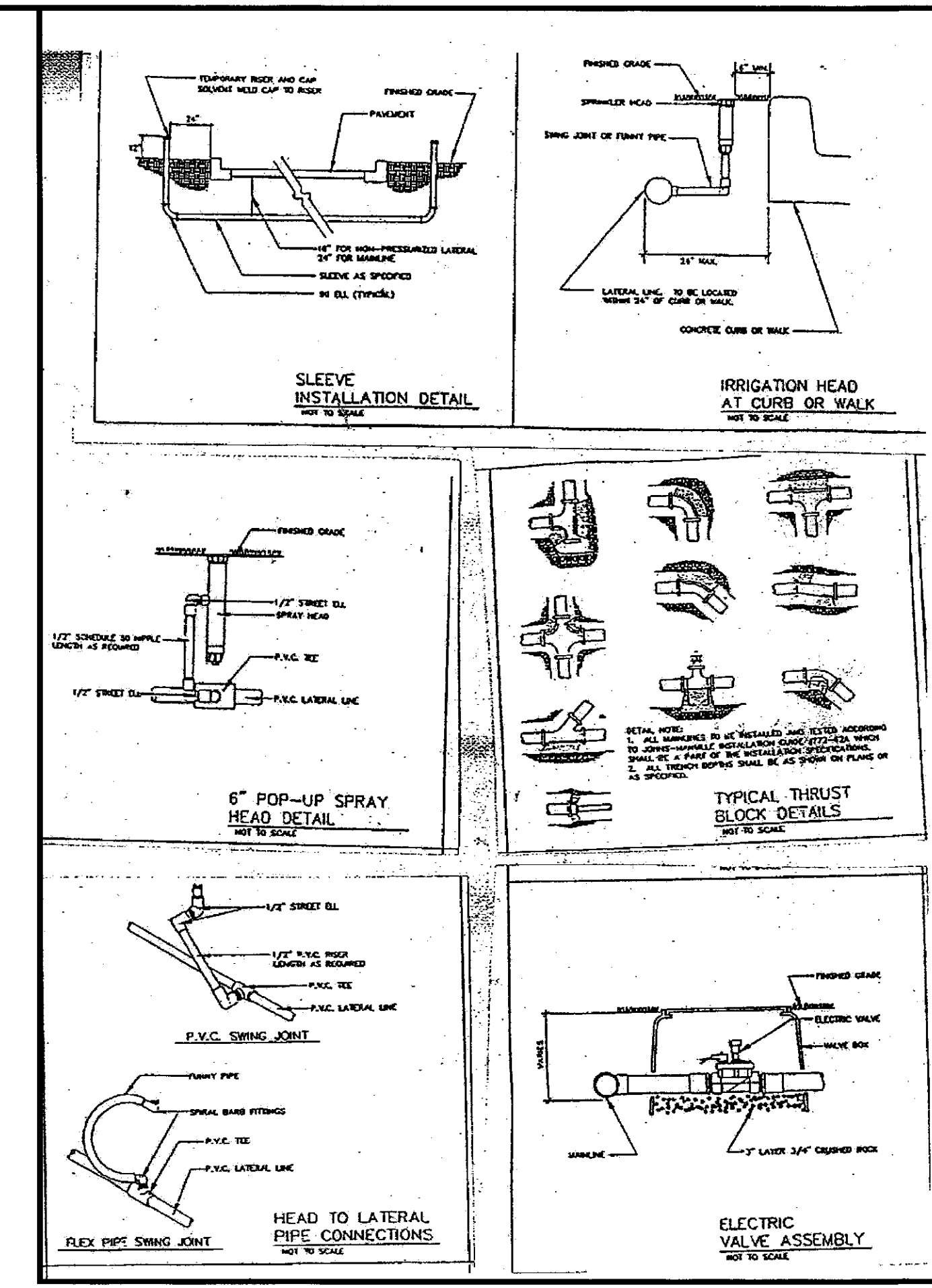
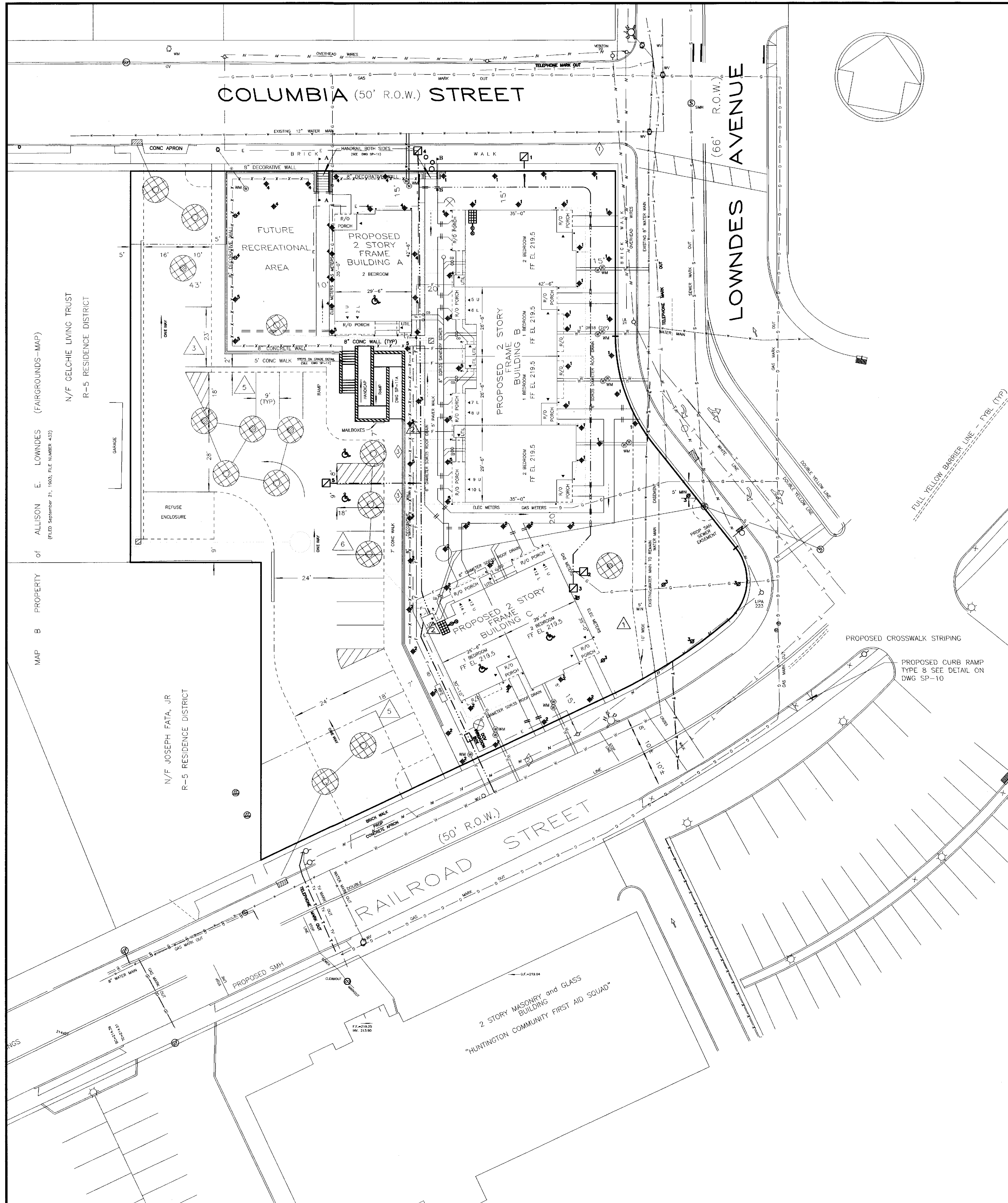


PROFILES
CONTRACT No. 2017-100

ENGINEERING BY
JEFFREY A. HARTMAN, P.E.
ENGINEERING CONSULTANT
8 ELWIN PLACE
EAST NORTHPORT, NY 11731
Email: harteng0615@gmail.com

PHONE: 631-499-0987 FAX: 631-493-1254
FILE: 400-140-3-72 SCALE: 1"=2'-0" DATE: 8-15-14 DWG: SP-7

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW.
COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL SHALL NOT BE CONSIDERED TO BE A TRUE VALID COPY.
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IRRIGATION KEY

- NELSON PRO 6000 SERIES GEAR DRIVE SPRINKLER - 2.5 GPM/36\"/>
- NELSON PRO 6000 SERIES SPRAY HEAD SPRINKLER - 1.5 GPM/16\"/>
- RICHDEL MODEL 217 2\"/>
- ZONE HYDROSAVER PROLINE CONTROLLER
- 2\"/>
- 4\"/>
- 2\"/>
- NELSON PRO 6000 SERIES SPRAY HEAD SPRINKLER - 1.5 GPM/16\"/>
- EXISTING (NOT IN CONTRACT)

IRRIGATION SCHEDULE

ZONE	QTY	HEAD TYPE	GPM	TOTAL
1	22	NELSON PRO 6300	1.5	33
2	18	NELSON PRO 6300	1.5	28.5
3	6	NELSON PRO 6000	2.5	15
4	16	NELSON PRO 6300	1.5	24
5	13	NELSON PRO 6300	1.5	19.5

NOTES

ZONE LINES TO BE POLYETHYLENE 100 LBS. VACUUM SEALED WITH UNDERGROUND WIRING 14/1 UF

CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS

HEAD AND LINE LOCATIONS ARE SCHEMATIC AND MAY REQUIRE FIELD ADJUSTMENTS

THE ENTIRE PROPERTY WITHIN THE METES AND BOUNDS SHOWN ON THESE DRAWINGS, IS TO BE DEVELOPED PER THESE PLANS.

THE CURRENT PROPERTY HAS NO SURFACE STRUCTURES AND THIS PLANS DEPICT CONSTRUCTION NECESSARY TO DEVELOP THE PROPERTY.

FOR EXISTING CONDITIONS, SEE DWG SP-1. ALL CONDITIONS NOT ALSO ON THE SURVEY DWG SP-1, CONSTITUTE NEW WORK TO BE CONSTRUCTED UNDER CONTRACT NUMBER GIVEN.

ALL LOWER UNITS ARE HANDICAP ACCESSIBLE.

ALL HOSE BIBS TO BE PART OF ONE ZONE.

IRRIGATION DESIGN BY
RICHARD IGNATOW, R.L.A.
 REGISTERED LANDSCAPE ARCHITECT
 91 GREEN STREET
 HUNTINGTON, NY 11743-6998
 631-271-4124

No.	REVISION	DATE
1	REMOVED PAVILION	10/30/19
2	REVISED FOR RE-SUBMISSION	3/14/18
3	REVISED FOR RE-SUBMISSION	5/15/17
4	REVISED	7/15/16
5	UPDATE EXISTING CONDITIONS	5/13/16
6	GENERAL REVISIONS	6/15/15
7	REV ELEC METER LOC., ADD FIRE LINE GAS LINE, REV HANDICAP RAMP	5/2/15
8	ADDED ELEC METERS	3/24/15
9	REV SP-1, ADDED CONTRACTS, PIPING	3/9/15
10	REVISED WATER MAIN, DA3, ADDED WATER, TEL EASEMENTS	1/30/15

OWNER:
 HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

APPLICANT:
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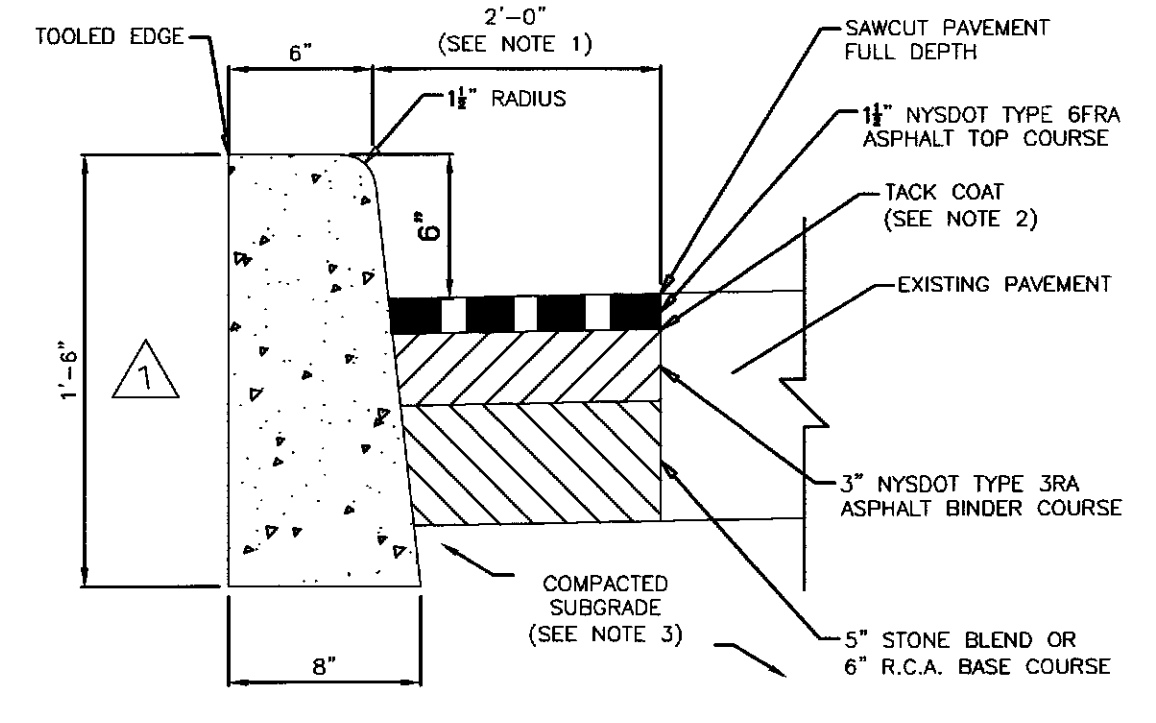
**TOWN OF HUNTINGTON
 COMMUNITY DEVELOPMENT AGENCY
 COLUMBIA TERRACE CONDOMINIUMS**
 SITUATE AT
HUNTINGTON STATION
 TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
 DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

IRRIGATION PLAN
 CONTRACT No. 2018-100

ENGINEERING BY
JEFFREY A. HARTMAN, P.E.
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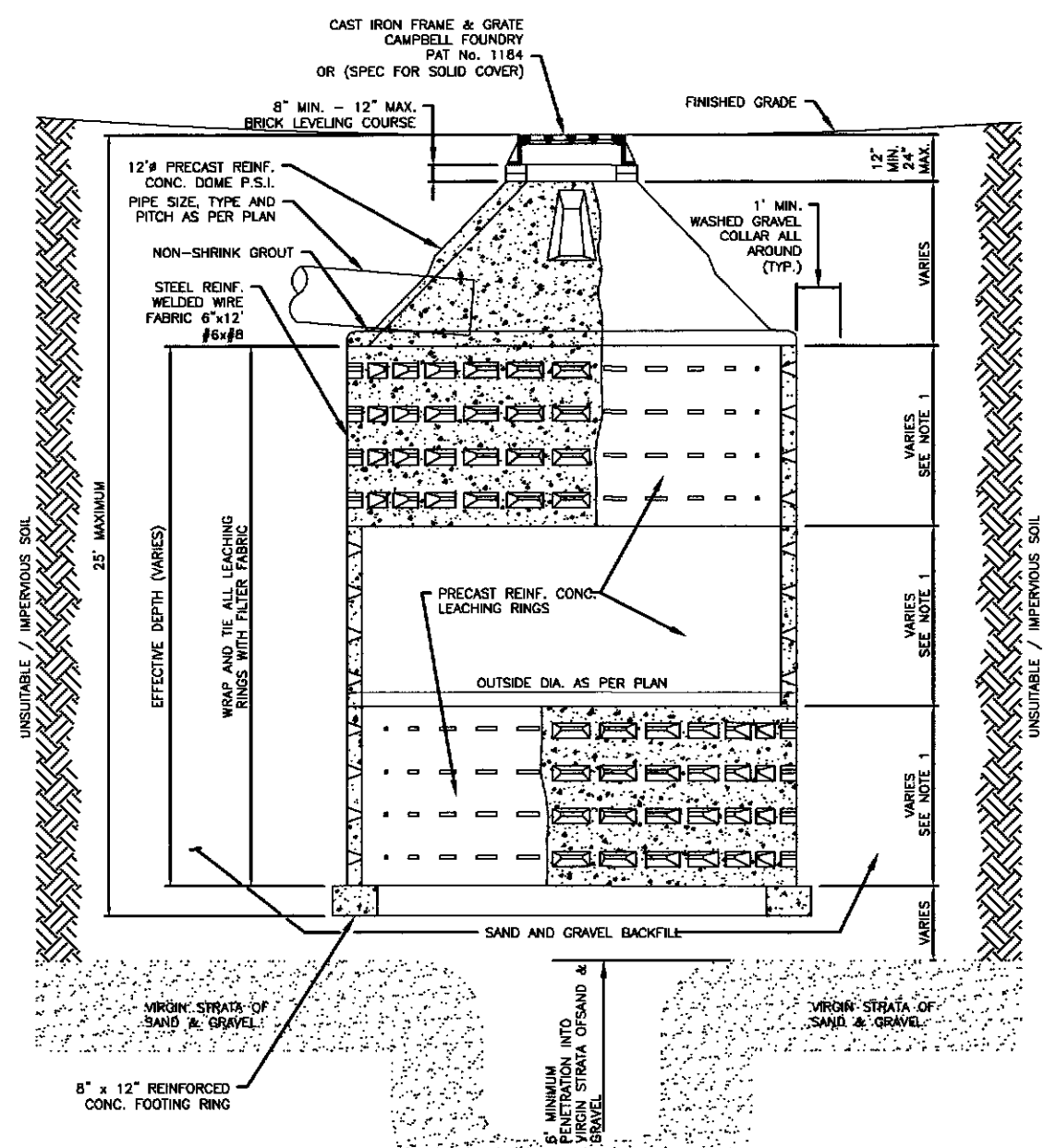
JEFFREY A. HARTMAN, P.E.



- NOTES:**
- WHEN CURB IS REPLACED OR INSTALLED WITHIN THE TOWN OF HUNTINGTON RIGHT-OF-WAY (R.O.W.) THE EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED A MINIMUM OF TWO (2) FEET FROM THE PROPOSED CURB.
 - TACK COAT (PER ITEM 407.0101 OF N.Y.S.D.O.T. STANDARD SPECIFICATIONS) EMULSIFIED ASPHALT PLACED AT A RATE OF BETWEEN 0.05 & 0.15 GALLONS PER SQUARE YARD. USE IF TOP COURSE ASPHALT IS PLACED IN EXCESS OF SIX (6) MONTHS AFTER BINDER COURSE IS INSTALLED. SURFACE OF BINDER COURSE ASPHALT SHALL BE CLEAN, DRY AND INSPECTED BY THE TOWN OF HUNTINGTON ENGINEERING INSPECTOR PRIOR TO PLACING TOP COURSE ASPHALT OR TACK COAT.
 - ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE COMPACTED MATERIAL, ALL AS DIRECTED BY THE TOWN OF HUNTINGTON ENGINEER. COMPACTION UTILIZING OPTIMUM MOISTURE CONTENT TO AT LEAST 95% STANDARD PROCTOR DENSITY. SUBMIT TEST RESULTS FROM ASTM D698 (MOISTURE) AND ASTM D2922 (DENSITY PER NUCLEAR METHODS) FOR REVIEW.
 - CONCRETE SHALL BE NYS DOT CLASS D CONCRETE.
 - EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT GREATER THAN 12'-0" O.C. AND AT ALL POINTS OF CURVATURE AND TANGENCY.
 - USE THIS DETAIL FOR NEW CONCRETE INSTALLATION AND ASPHALT PAVING.

CONCRETE CURB AND PAVEMENT REPAIR

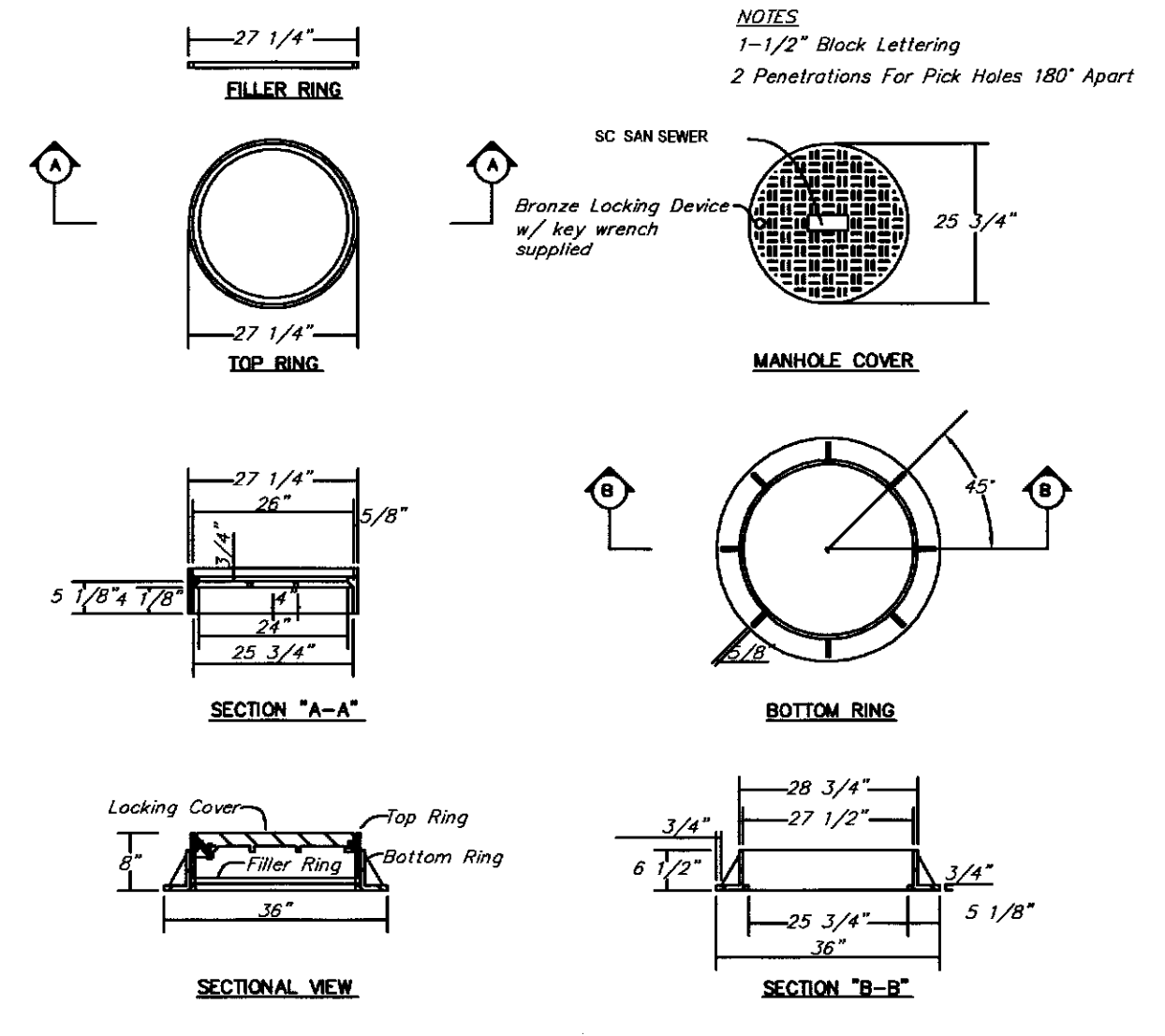
NTS
ITEM 610



- NOTES:**
- PRECAST LEACHING RINGS OF VARYING DEPTH SHALL BE STACKED SO THAT RINGS OF GREATER HEIGHT ARE LOCATED UNDER RINGS OF LESS HEIGHT.
 - ALL DRAINAGE PIPE SHALL BE PROVIDED WITH A MINIMUM OF 2'-0" COVER.
 - ANY UNSUITABLE MATERIAL UNDER THE LEACHING BASIN SHALL BE EXCAVATED AND REMOVED UNTIL A VIRGIN STRATA OF SAND AND GRAVEL IS ENCOUNTERED. AN ADDITIONAL 4'-0" IS THEN TO BE EXCAVATED INTO THE VIRGIN SAND AND GRAVEL TO THE SAME SPECIFICATIONS AS GIVEN FOR THE BASIN PERIMETER BACKFILL. THE EXCAVATION IS TO BE BACKFILLED WITH CLEAN SAND AND GRAVEL TO THE ELEVATION OF THE PROPOSED BOTTOM OF THE LEACHING BASIN. ANY UNSUITABLE MATERIAL WITHIN 3 FEET OF THE LEACHING BASIN PERIMETER SHALL BE REMOVED AND BACKFILLED WITH CLEAN SAND AND GRAVEL. MINIMUM RETAINED ON NO. 10 SIEVE.

LEACHING POOL WITH DOME (LP)

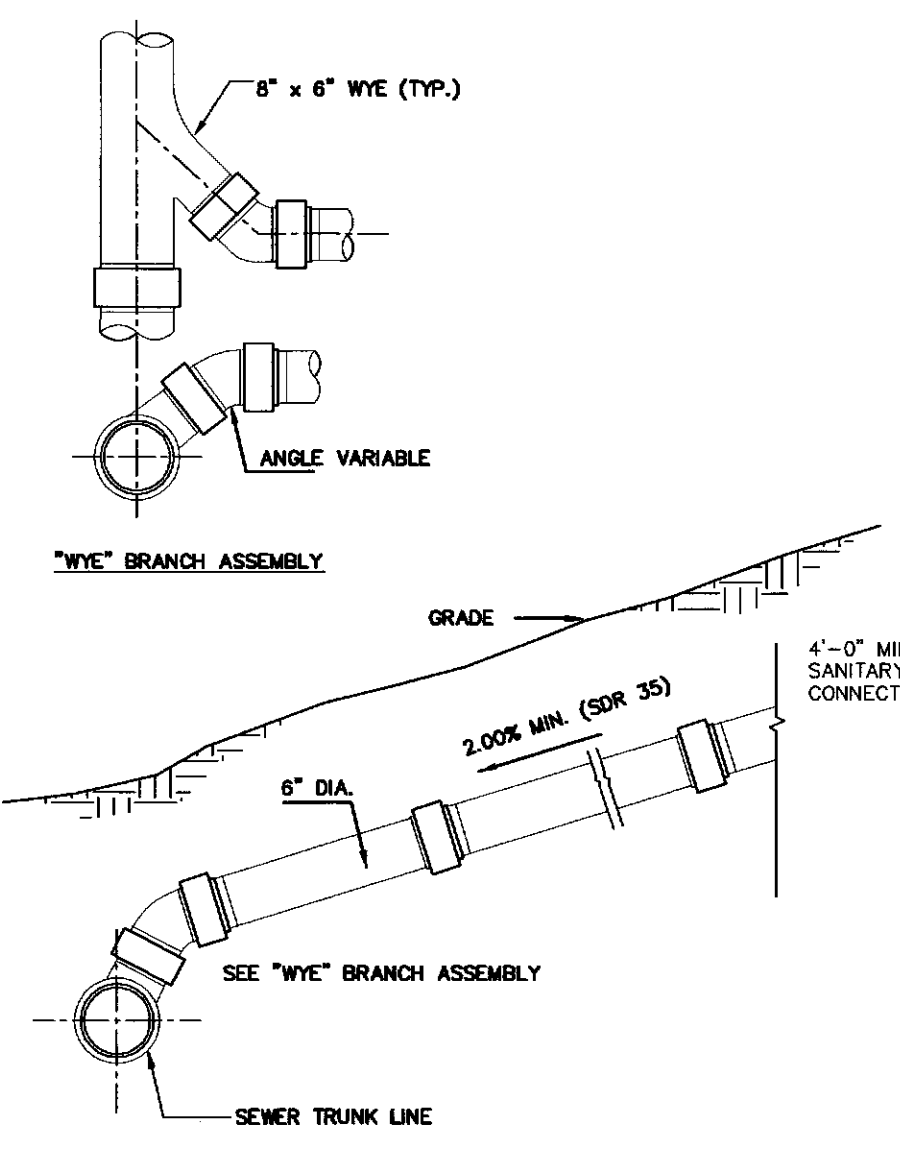
NTS
MISC. ITEMS



- NOTES:**
- 1-1/2" Block Lettering
 - 2 Penetrations For Pick Holes 180° Apart

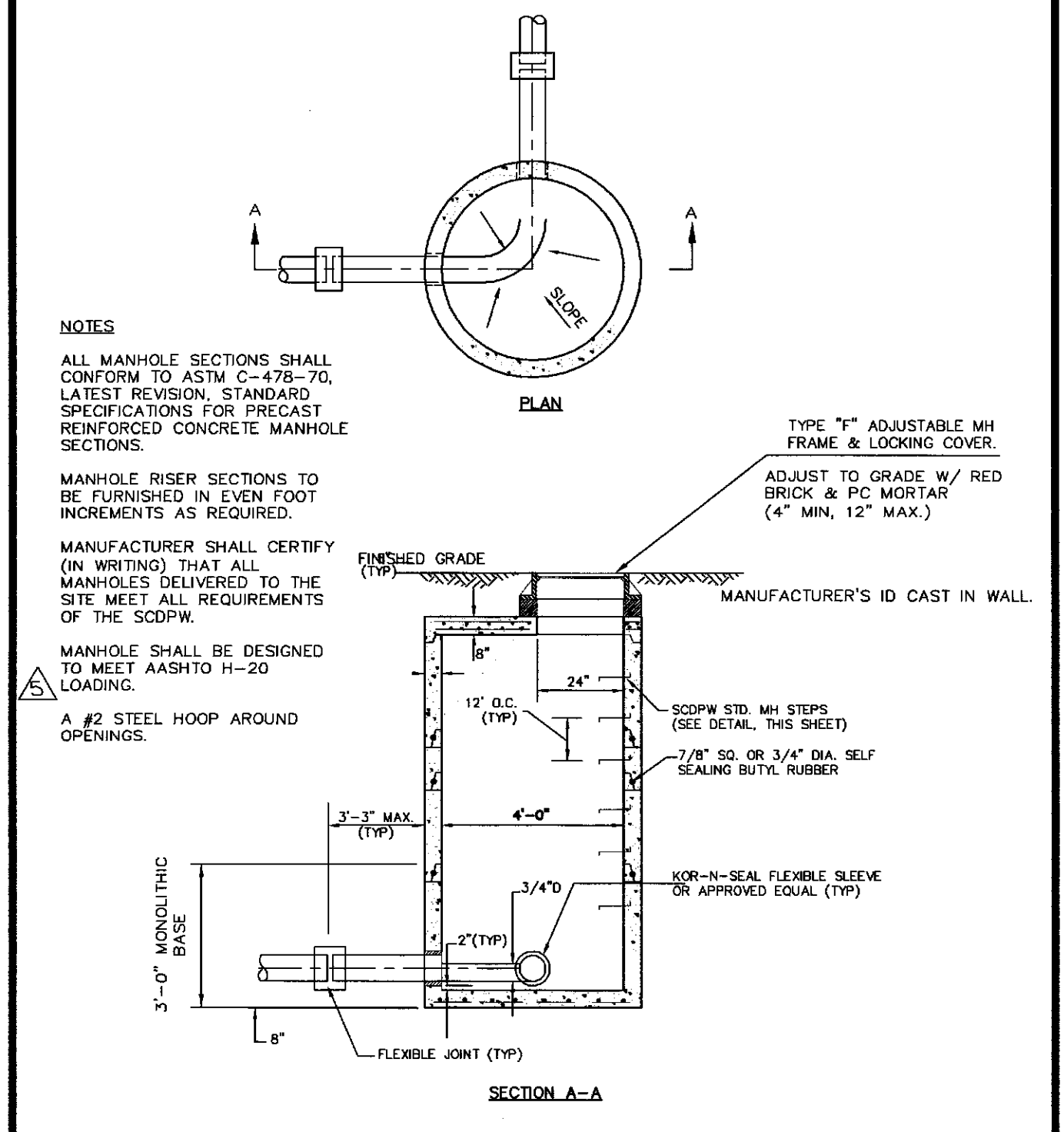
SCDPW TYPE "F" MH FRAME & COVER

NTS



SEWER SERVICE CONNECTION

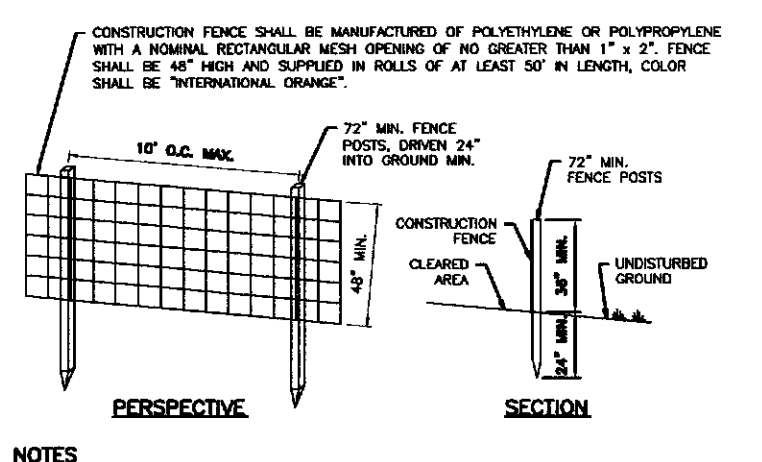
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- NOTES:**
- ALL MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478-70 LATEST REVISION, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.
 - MANHOLE RISER SECTIONS TO BE FURNISHED IN EVEN FOOT INCREMENTS AS REQUIRED.
 - MANUFACTURER SHALL CERTIFY (IN WRITING) THAT ALL MANHOLES DELIVERED TO THE SITE MEET ALL REQUIREMENTS OF THE SCDPW.
 - MANHOLE SHALL BE DESIGNED TO MEET AASHTO H-20 LOADING.
 - A #2 STEEL HOOP AROUND OPENINGS.

SANITARY SEWER MANHOLE

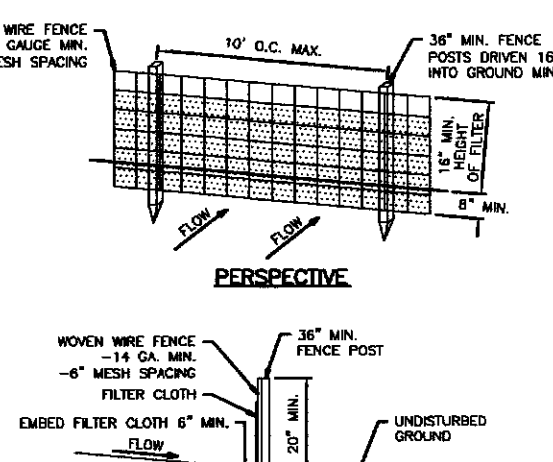
NTS



- NOTES:**
- CONSTRUCTION:**
- THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION FENCE IN LOCATIONS AS REQUIRED BY THE DRAINING AND SPECIFICATIONS OR MANHOLE MANHOLES.
- INSTALLATION:**
- CONSTRUCTION FENCE SHALL BE INSTALLED BY MEANS OF FENCING POSTS VERTICALLY THROUGH AT LEAST THREE (3) MESH OPENINGS FOR EACH SECTION OF FENCE AND DRIVING POSTS WITH A 2" DIA. AND DRIVING SHANKS OR EQUIVALENT FROM THE TOP OF FENCING POSTS TO EACH POST AT THE TOP, BOTTOM AND MID-SPAN WITH WIRE STRAPS. WHERE LENGTHS OF FENCING ARE EXCEEDED A JOINT SHALL BE WORKED WITH FENCING SECTIONS OF THE JOINT WITH THE FASTENING BOTH FENCE SECTIONS TO THE POST. FENCING SHALL BE STRENGTHENED AS MUCH AS PRACTICABLE BETWEEN FENCING POSTS. TEMPORARILY DEFLECTED POSTS, TEMPORARY FASTENERS AND CONNECTIONS WHICH DISTURBANCE SHALL BE PERMITTED FOR ENTRY OF WORKERS, BUT THE NUMBER OF CONNECTIONS TO BE PERMITTED SHALL BE LIMITED TO THE END OF EACH WORK SECTION.
 - POSTS SHALL EITHER 1" DIA. TYPE OR 2" HOLLOWWOOD.

TEMPORARY CONSTRUCTION FENCE

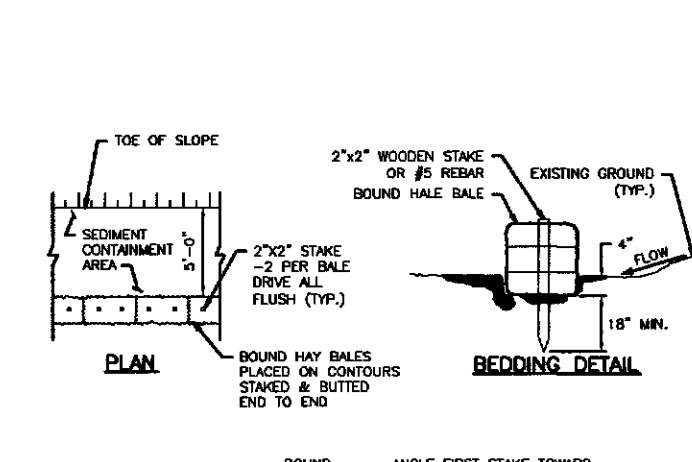
NTS



- NOTES:**
- WORK WIRE FENCE TO BE FASTENED TO FENCING POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE EITHER 1" OR 1 1/2" TYPE OR HOLLOWWOOD.
 - FILTER CLOTH TO BE FASTENED TO WIRE WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WORKED WITH 4" MAXIMUM WASH OPENING.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN FROM OTHER THEY SHALL BE OVERLAPPED BY 36 INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MESH 100X, STAINLESS TIE OR EQUIVALENT. PREPARED SILT FENCE SHALL BE EITHER STAINLESS TIE OR EQUIVALENT.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGE" DEVELOPS IN THE SILT FENCE.

SILT FENCE

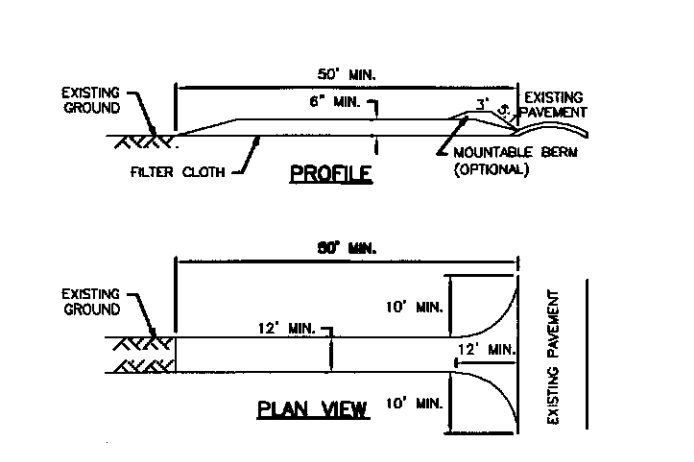
NTS



- NOTES:**
- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 50 FEET
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WASH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WASH AT POINTS WHERE BARRIERS OR ENDS OCCUR.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DRAINING TOWARD CONSTRUCTION DISTURBANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BEAM WITH 2" RAILS WILL BE PERMITTED.
 - MAINTENANCE - THE DISTANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN SEDIMENT IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND BRUSH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ALTERNATE TO SILT FENCE HAY BALE DIKE

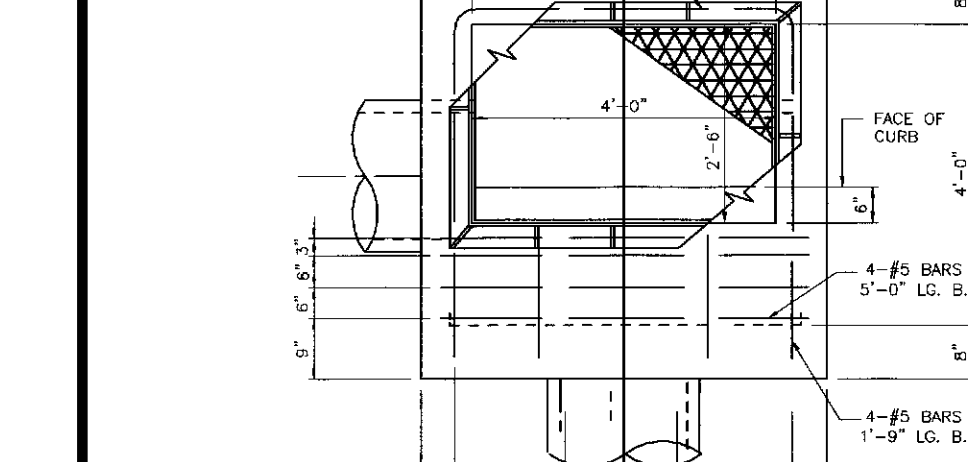
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- NOTES:**
- CONCRETE BRICK CURB SHALL BE 12" HIGH AND 6" WIDE.
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TEMPORARY CONSTRUCTION ENTRANCE

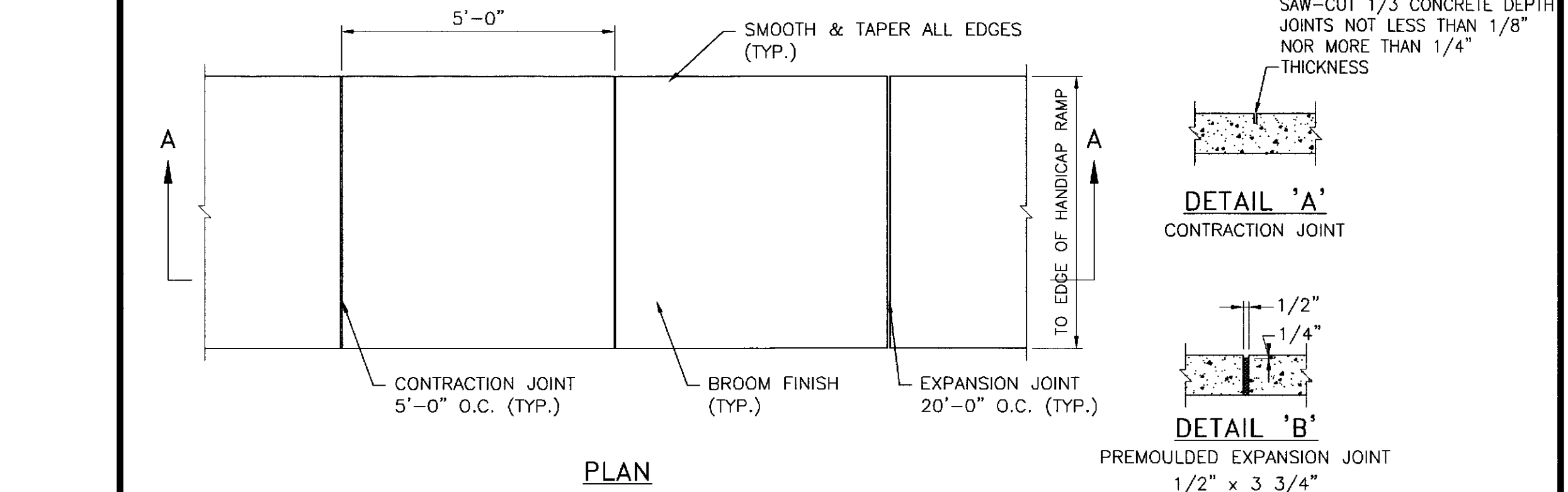
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CATCH BASIN

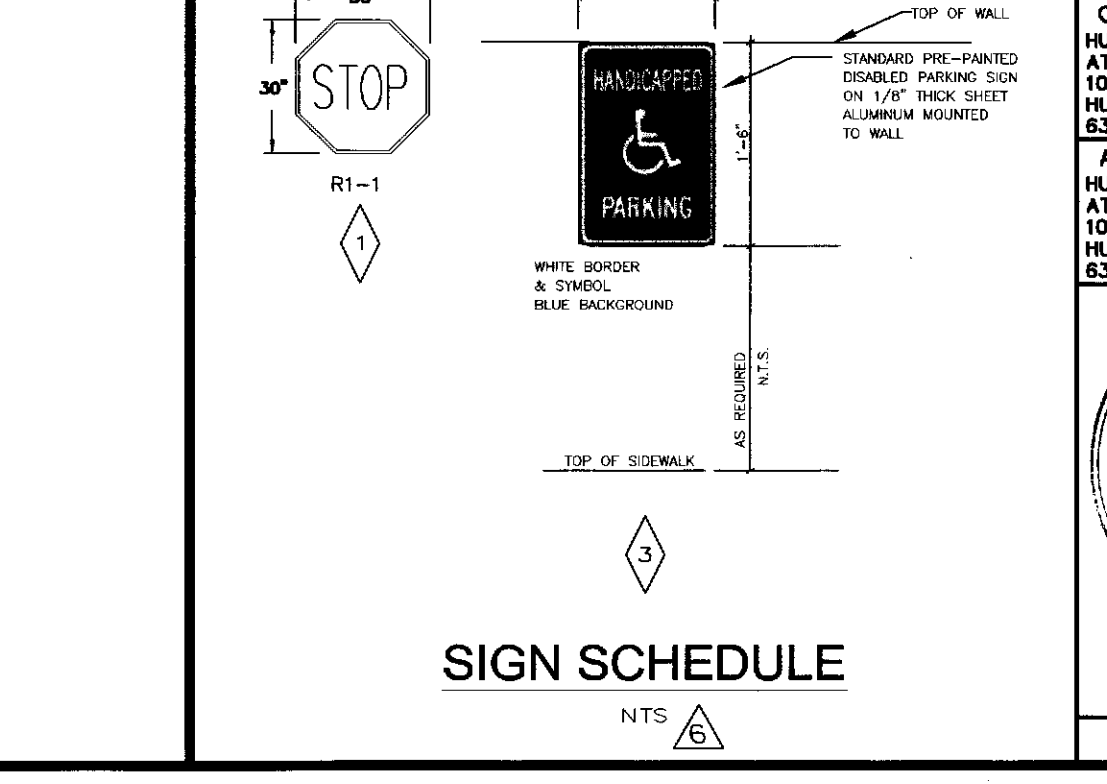
NTS



CONCRETE WALK DETAIL

NTS

REVISION	DATE
FOR RESUBMISSION	5/15/17
FOR RESUBMISSION	5/13/16
GENERAL REVISIONS	6/15/15
ADD SMH NOTES	5/2/15
REVISED CURB DETAIL, SINAGE	3/24/15
REVISED SEWER MH	3/9/15
NO CHANGES THIS SHEET	2/20/15
ADD LEACHING POOL DETAIL	2/9/15
NO CHANGES THIS SHEET	1/30/15
REV CURB DETAIL REMOVE LEACH POOL DETAIL	9/5/14
FOR RESUBMISSION	7/15/16



SIGN SCHEDULE

OWNER:
HUNTINGTON COMMUNITY DEVELOPMENT ADY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

APPLICANT:
HUNTINGTON COMMUNITY DEVELOPMENT ADY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

**TOWN OF HUNTINGTON
COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS**
SITUATED AT
HUNTINGTON STATION
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DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

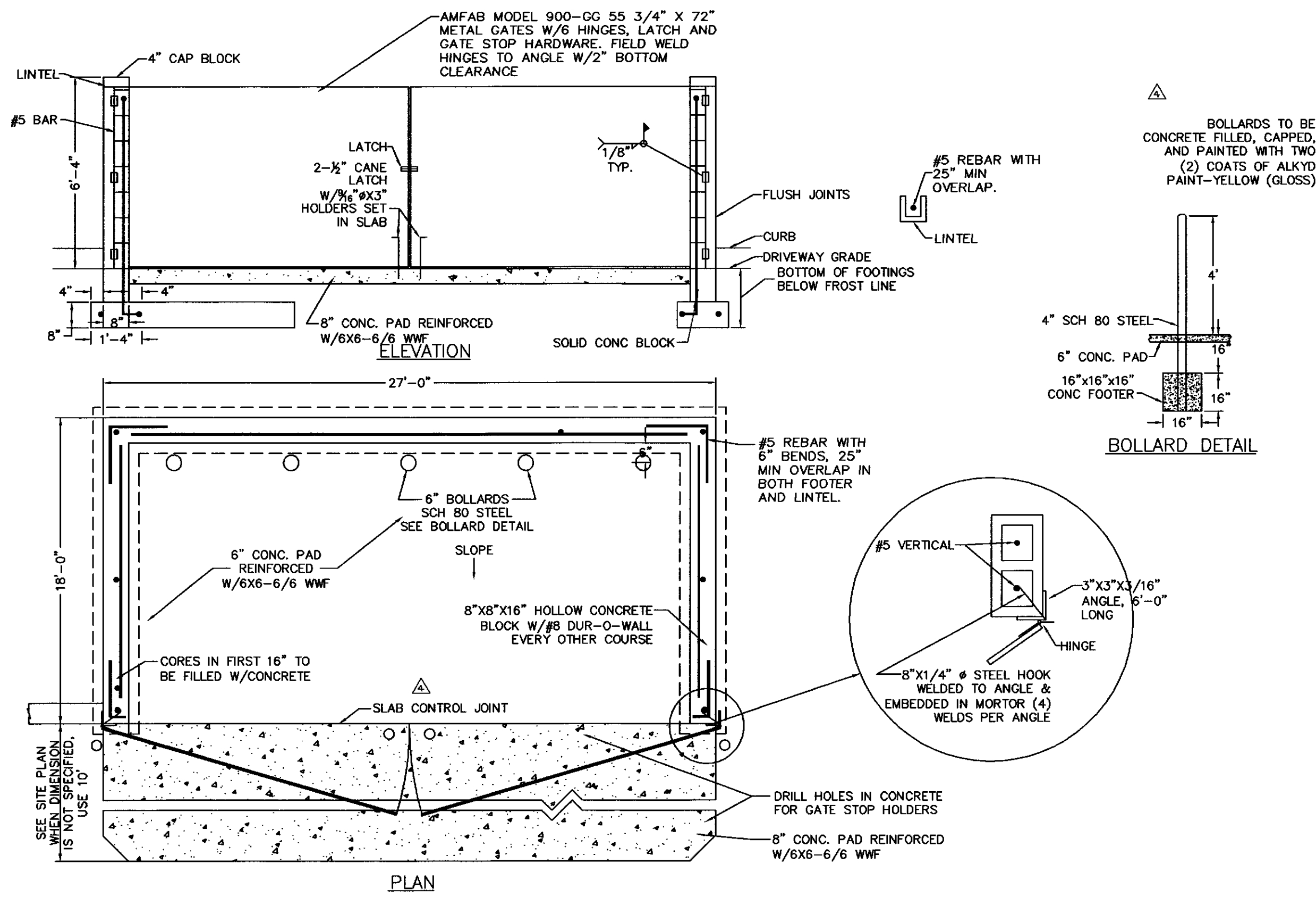
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CONTRACT No. 2017-100

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PHONE: 631-499-0987 FAX: 631-493-1254
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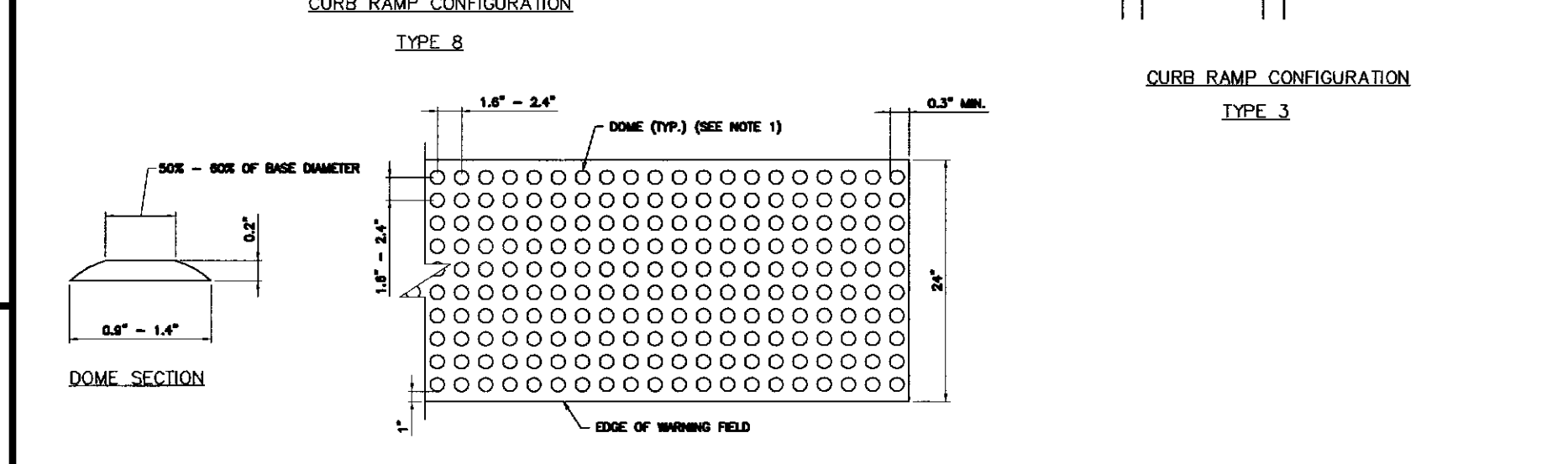
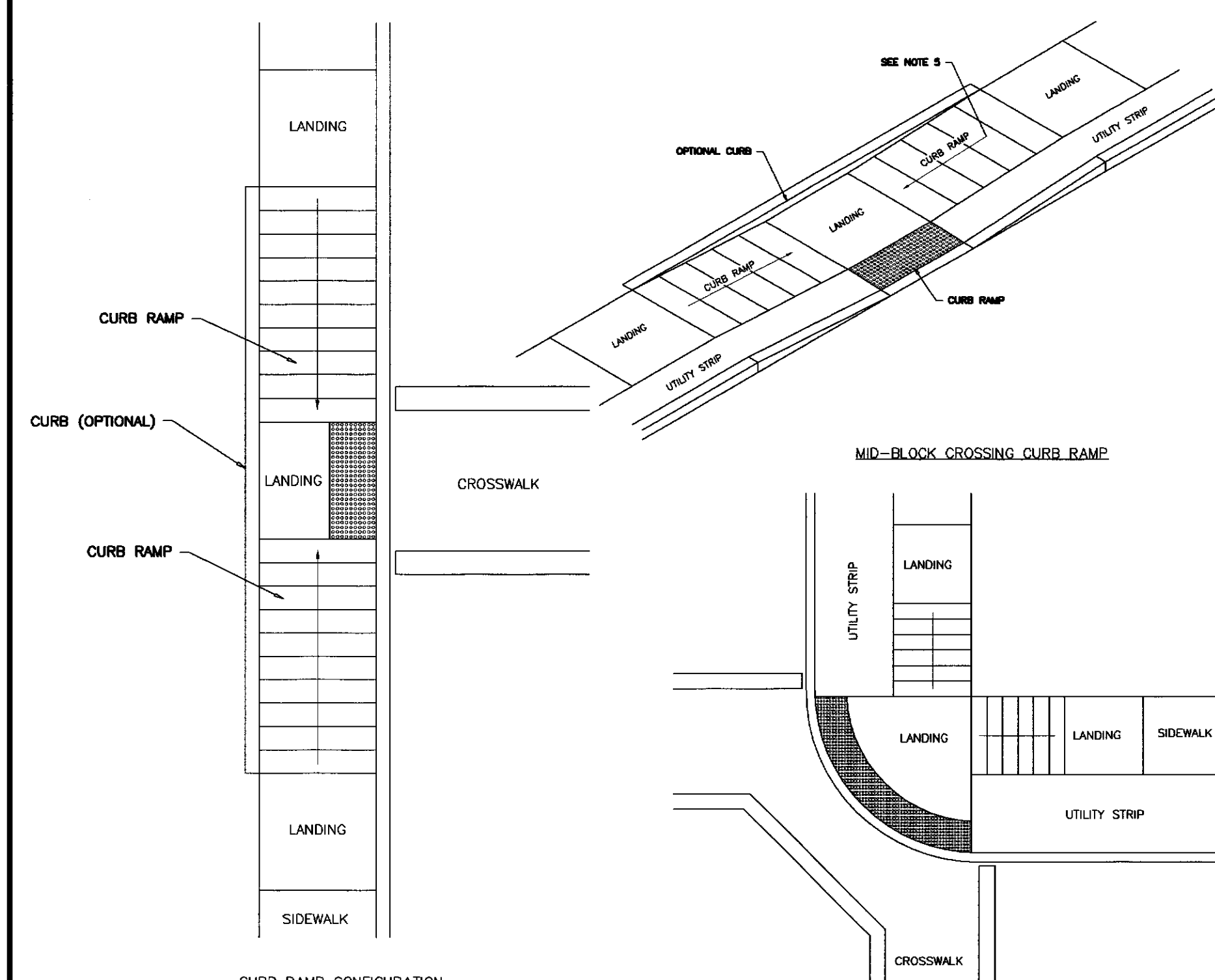
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EROSION CONTROL DETAILS

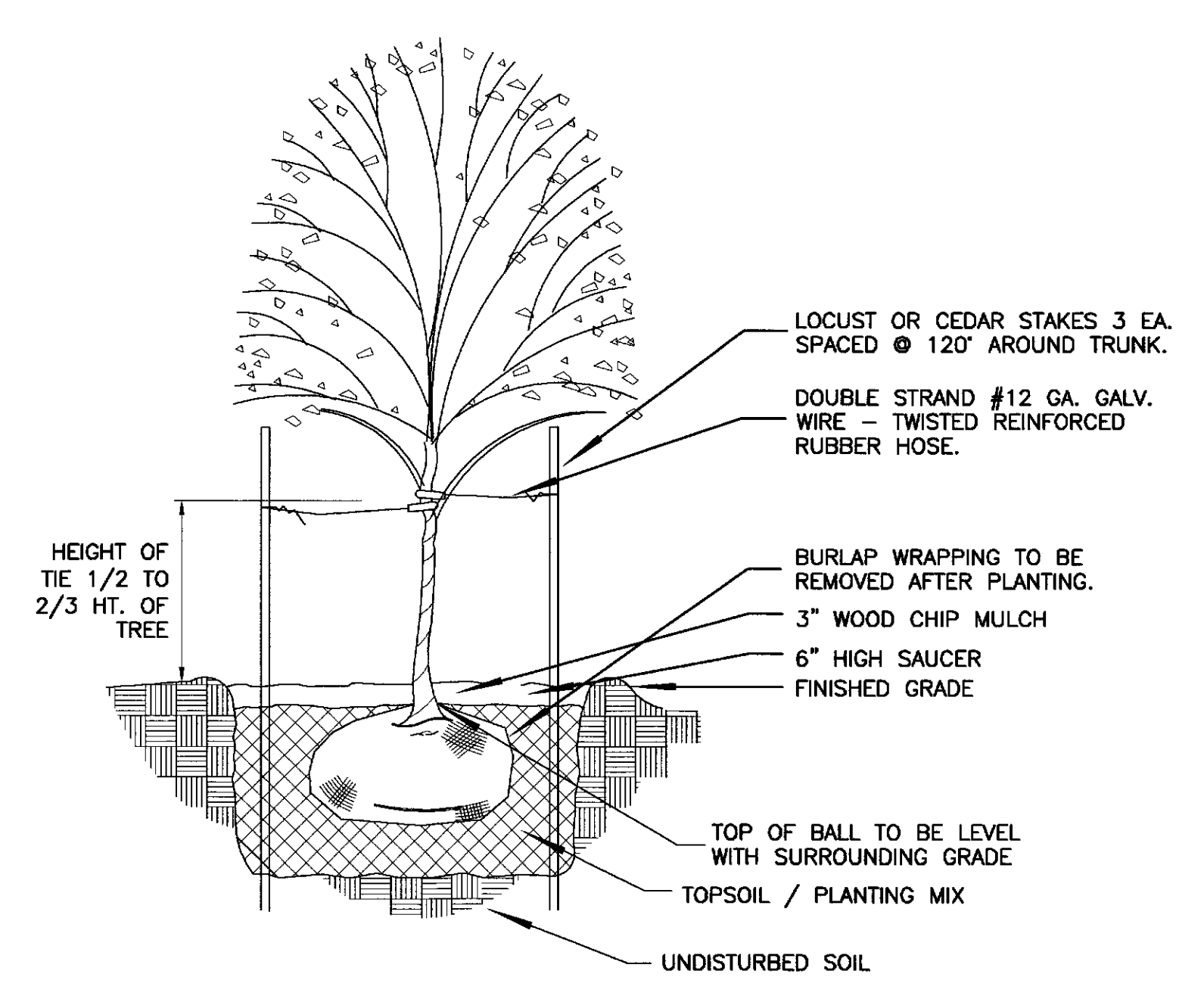


REFUSE CONTAINER ENCLOSURE LAYOUT DETAIL

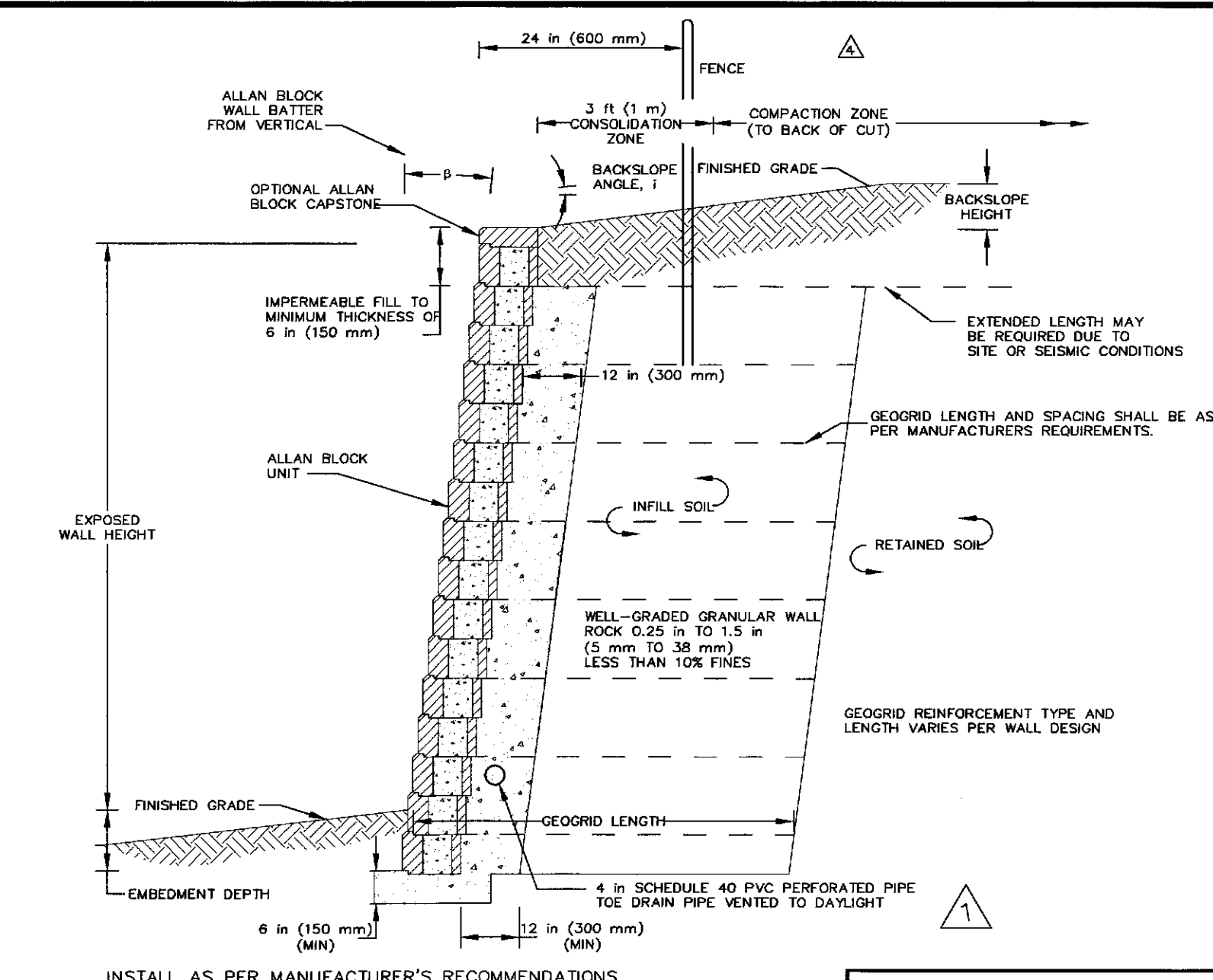


- NOTES:**
- THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT (THE DOMES AND THE ENTIRE 24" LEVEL SURFACE) IS FOR ILLUSTRATION ONLY.
 - THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUSIVE OF SIDE FLARES.
 - WHERE DOMES ARE ARRANGED RADIALY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET.
 - THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE MOST CURRENT ADAAG.
 - DETECTABLE WARNINGS LOCATIONS: DETECTABLE WARNINGS SHALL BE LOCATED SO THAT THE EDGE OR CORNER OF THE WARNING FIELD NEAREST TO THE ROADWAY IS 5" TO 9" FROM THE FRONT OF THE CURB OR THE ROADWAY EDGE (12" WHERE TRAVERSABLE CURB IS USED).
- GENERAL NOTES:**
- THE DIMENSIONS AND SLOPES PRESENTED IN THE DETAILS ARE THE MINIMUM NECESSARY TO COMPLY WITH THE ADA AND TQI STANDARDS. ANY DEVIATION LESS THAN THE MINIMUM WIDTH OR GREATER THAN THE MAXIMUM SLOPE FROM THESE STANDARDS MUST BE DOCUMENTED WITH THE STANDARDS BEING MET TO THE GREATEST EXTENT PRACTICABLE AND CONSISTENT WITH THE MOST CURRENT ADAAG.
 - CURB RAMP, LANDINGS AND BLENDED TRANSITIONS REQUIRE THE USE OF DETECTABLE WARNINGS. DETECTABLE WARNINGS ON THIS SHEET ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE DETECTABLE WARNING DETAILS ON SHEET 4 OF 5 FOR DETAILS ON PLACEMENT, ORIENTATION & DIMENSIONS. REFER TO CHAPTER 18 OF THE NYS HIGHWAY DESIGN MANUAL FOR MORE INFORMATION.
 - THE MINIMUM WIDTH FOR SIDEWALK CURB RAMP IS 5'-0".
 - THE RUNNING SLOPE OF A CURB RAMP SHALL BE 1:20 (5 (PREFERRED) AND 1:12 (8.33%) MAXIMUM).
 - WHERE THE SLOPE OF THE ROADWAY EXCEEDS 8.33% THE CURB RAMP LENGTH IS THE LENGTH NECESSARY TO MEET THE EXISTING SIDEWALK. IT IS NOT NECESSARY THAT THE RAMP LENGTH EXCEED 15'-0".
 - THE CROSS SLOPE OF CURB RAMP SHOULD BE AS FLAT AS POSSIBLE, NOT TO EXCEED 1:50 (2%). THE CROSS SLOPE AT MIDBLOCK CROSSINGS MAY BE WARPED TO MEET ROADWAY GRADE.
 - THE VERTICAL ALIGNMENT OF A CURB RAMP, EXCLUDING THE FLARES, SHALL BE FLAT. GRADE BREAKS SHALL BE FLUSH AND PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN.
 - RAMP TRANSITIONS BETWEEN WALKS, LANDINGS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4" MAX).
 - WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED PARALLEL TO THE CURB LINE, SHALL BE PROVIDED.
 - LANDING NOTES: LANDINGS SHALL HAVE A MINIMUM CLEAR DIMENSION OF A 5'-0" BY 5'-0" EXCEPT AT THE BOTTOM OF RAMP TYPE 1 & 2 ON SHEET 2 OF 5.
 - THE RUNNING AND CROSS SLOPES ON LANDINGS AT INTERSECTIONS IS 1:50 (2%) MAXIMUM. THE RUNNING AND CROSS SLOPES AT MIDBLOCK CROSSINGS MAY BE WARPED TO MEET ROADWAY GRADE.

SIDEWALK DETAILS



TREE STAKING DETAIL



DECORATIVE BLOCK WALL TYPICAL GRAVITY CROSS SECTION

INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS

No.	REVISION	DATE
1	FOR RESUBMISSION	5/15/17
2	REVISED WALL NOTES	7/15/18
3	FOR RESUBMISSION	5/13/16
4	GENERAL REVISIONS	6/15/15
5	NO CHANGES THIS SHEET	5/2/15
6	REV WALL, REFUSE AREA	3/9/15
7	NO CHANGES THIS SHEET	2/20/15
8	NO CHANGES THIS SHEET	1/30/15
9	REVISE DETAILS	9/5/14

OWNER: HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
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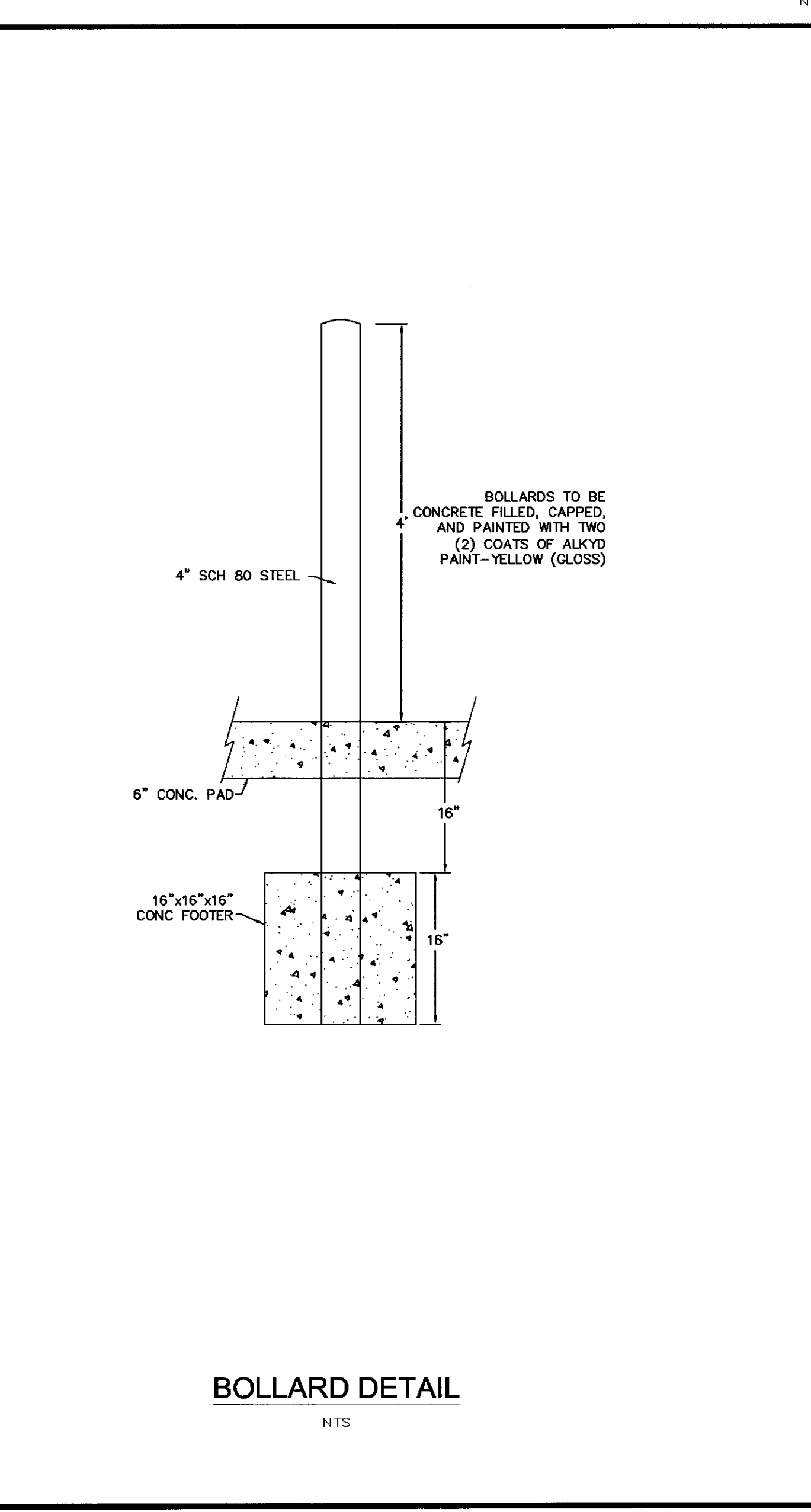
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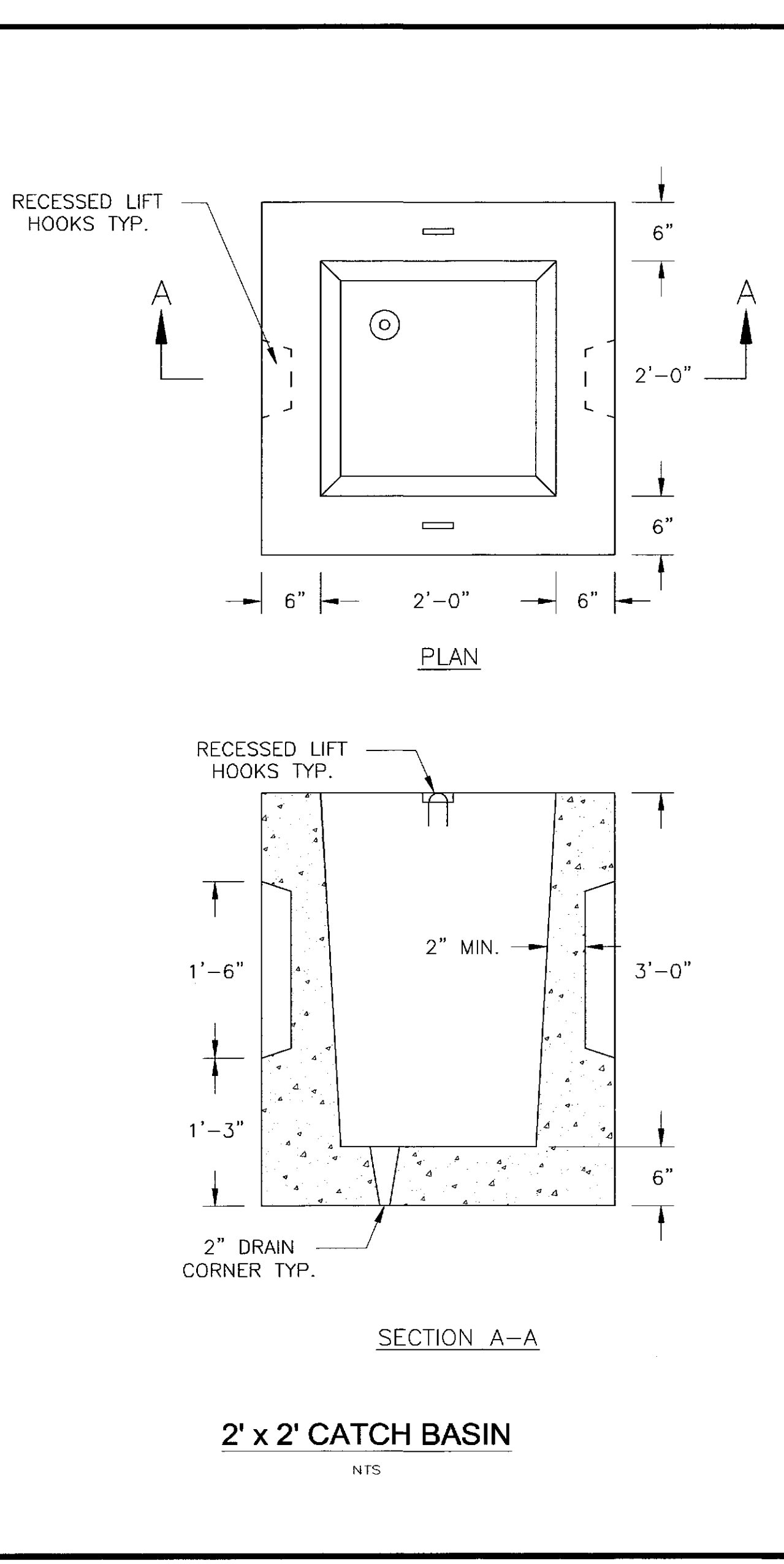
DETAILS-2
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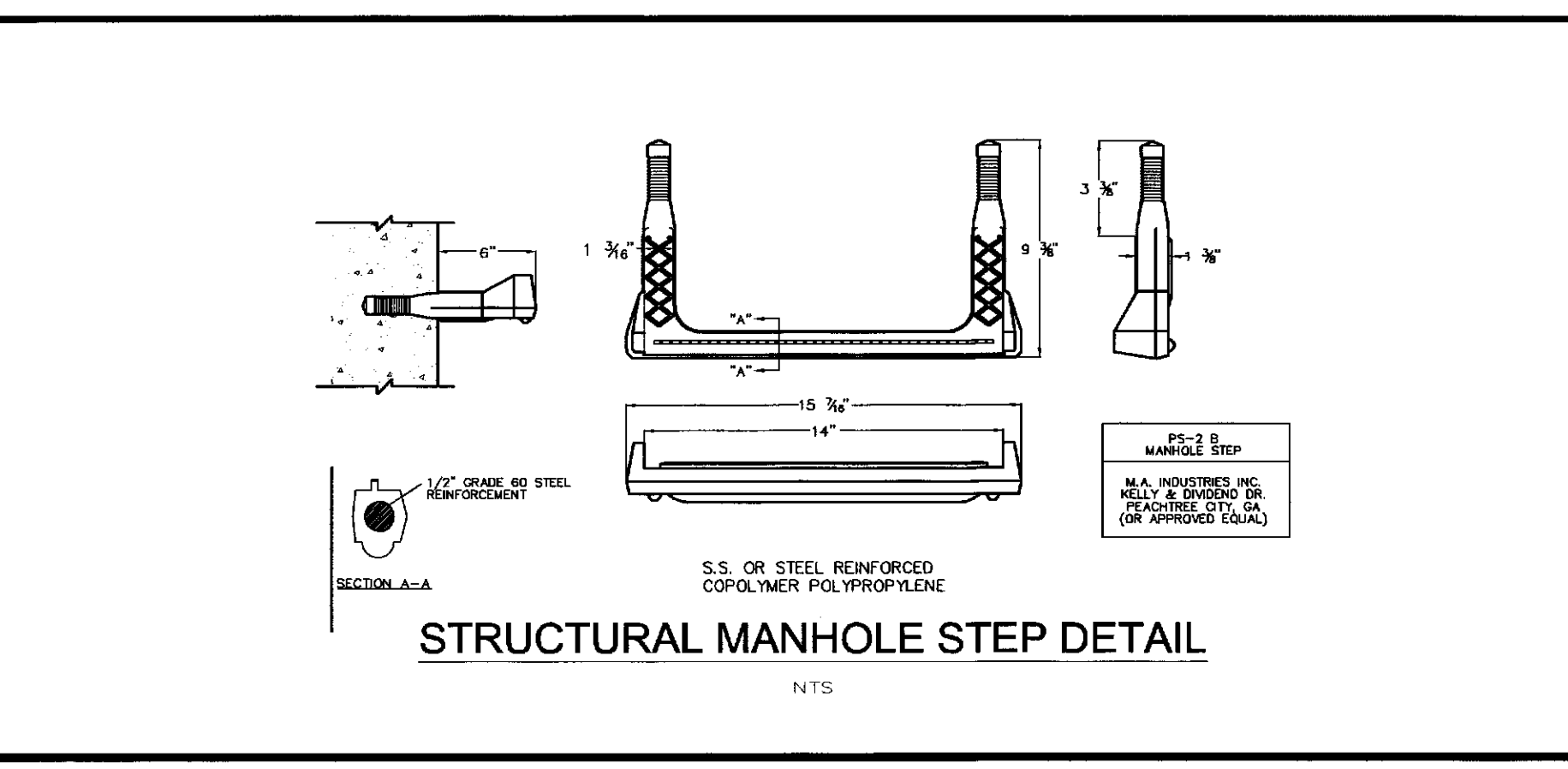
PHONE: 631-499-0987 FAX: 631-493-1254
FILE: 400-140-3-72 SCALE: AS NOTED DATE: 8-15-14 DWG: SP-10



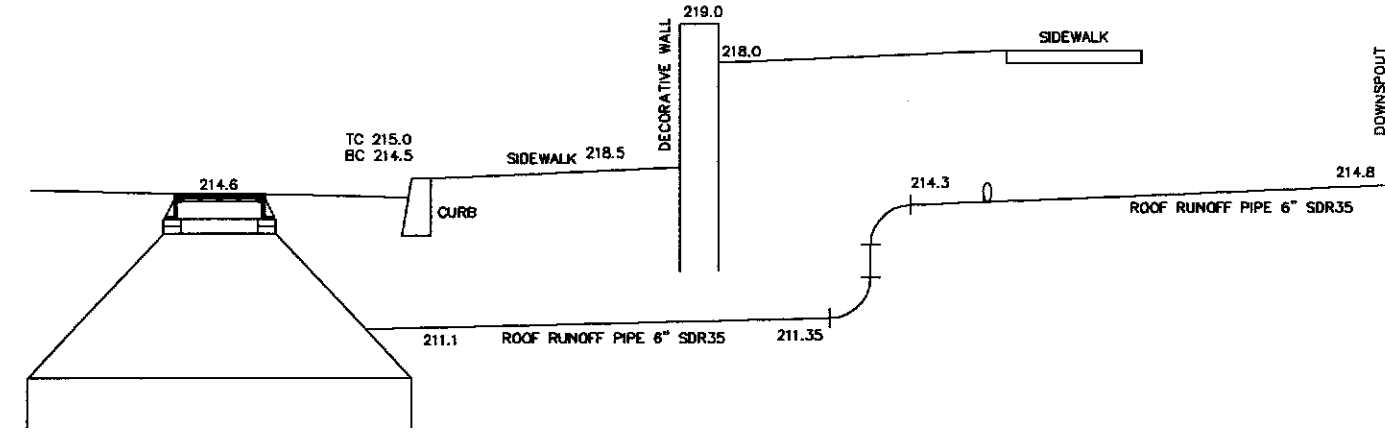
BOLLARD DETAIL



2' x 2' CATCH BASIN

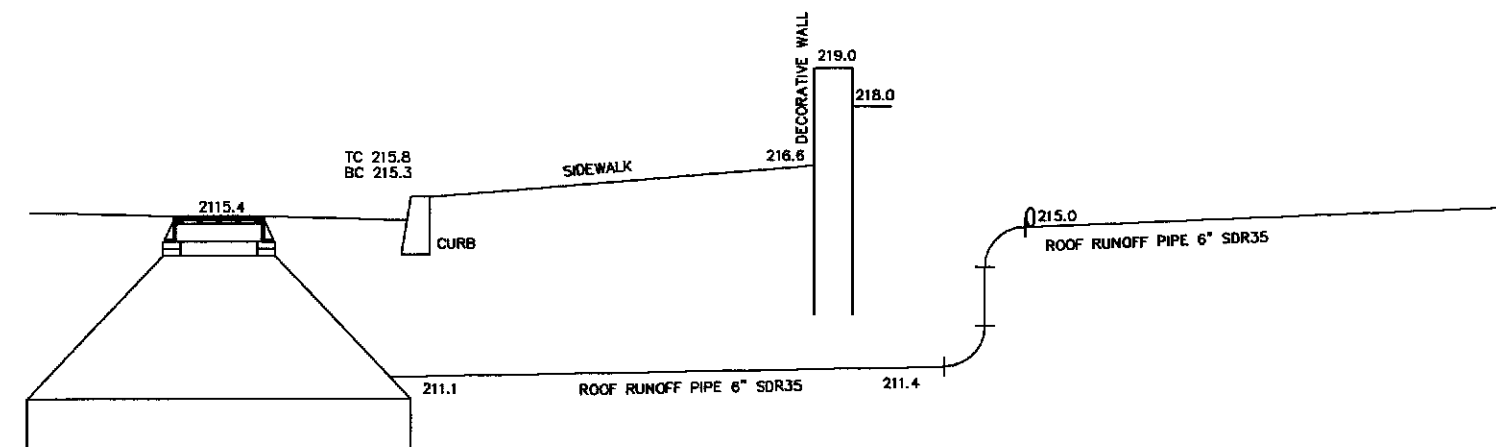


STRUCTURAL MANHOLE STEP DETAIL



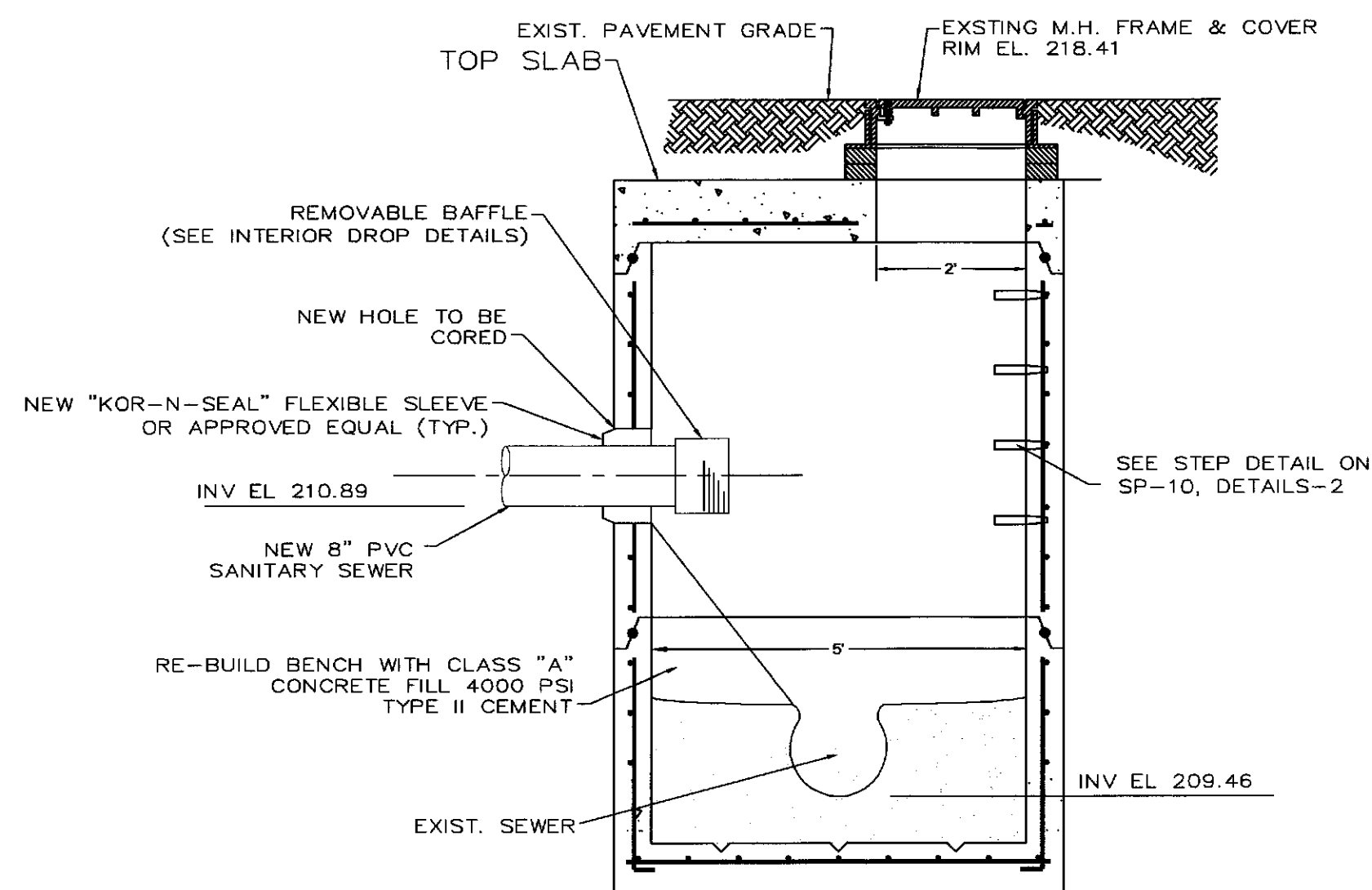
ROOF DRAINAGE DETAIL - SECTION A-A

Scale: 1"=5'

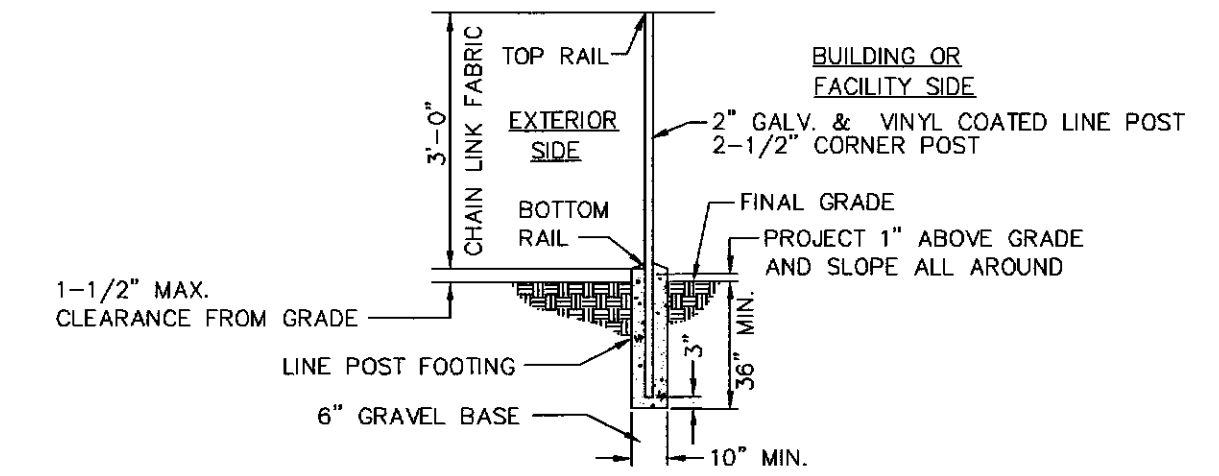


ROOF DRAINAGE DETAIL - SECTION B-B

Scale: 1"=5'



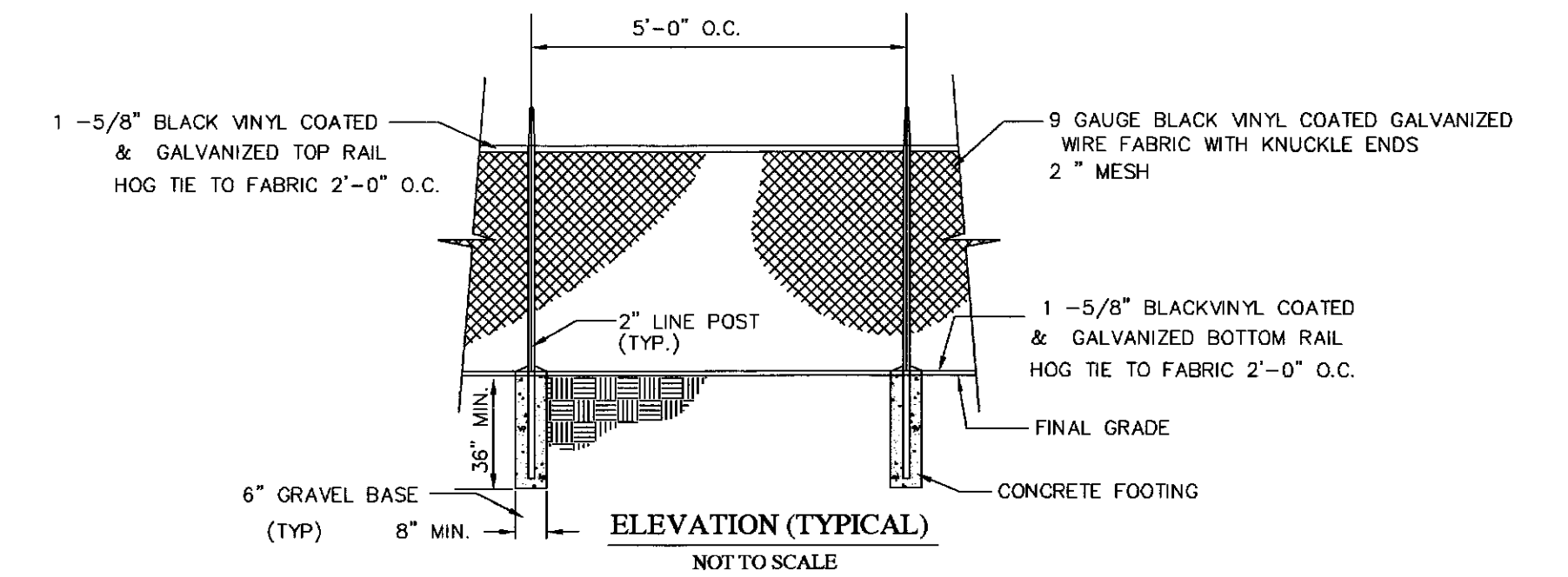
EXISTING MANHOLE MODIFICATION



TYPICAL SECTION

NOT TO SCALE

FENCE TO CONFORM TO ITEM 106 SPECIFICATIONS



ELEVATION (TYPICAL)

NOT TO SCALE

CHAIN LINK FENCE DETAIL

NOT TO SCALE

No.	REVISION	DATE
△	FOR RESUBMISSION	5/15/17
△	FOR RESUBMISSION	7/15/16
△	FOR RESUBMISSION	5/13/16
△	REVISED LEACHING POOL TO DOMES	6/15/15
△	REVISE RAMP, MH STEP NOTE ADD FIRE RFPZ	5/2/15
△	ADD SECTION A-A, B-B	3/9/15
△	NO CHANGES THIS SHEET	2/20/15
△	NO CHANGES THIS SHEET	1/30/15
△	REMOVE WATER SERVICE DETAILS, REV RAMP DETAIL	9/5/14

OWNER:
HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

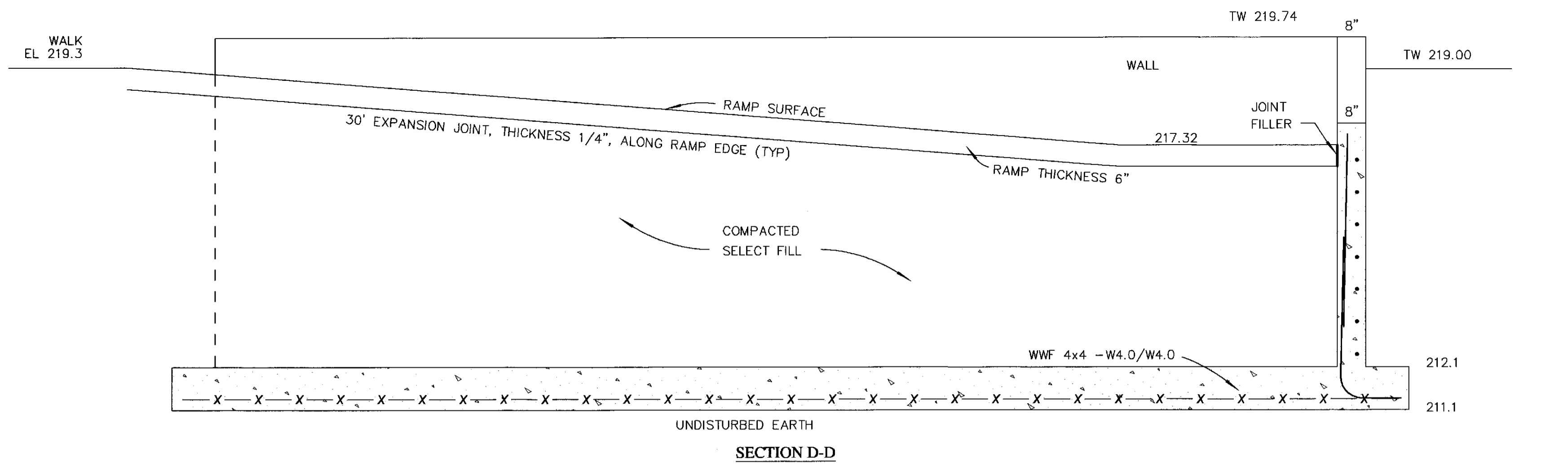


ENGINEERING BY
JEFFREY A. HARTMAN, P.E.
ENGINEERING CONSULTANT
8 ELWIN PLACE
EAST NORTHPORT, NY 11731
Email: harteng0615@gmail.com
PHONE: 631-499-0987 FAX: 631-493-1254

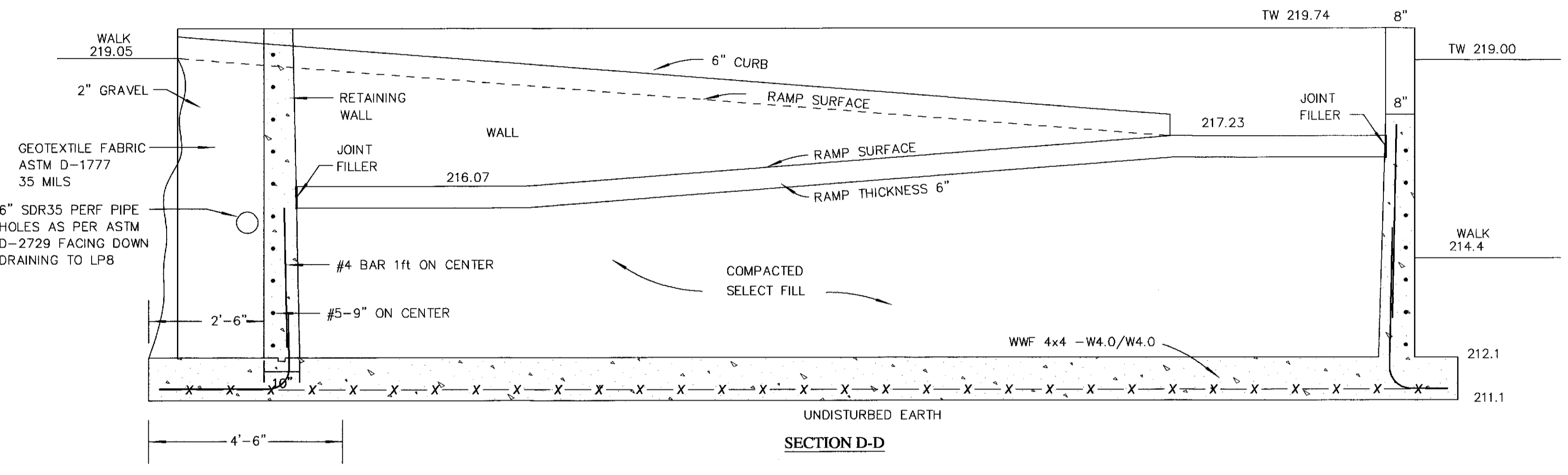
TOWN OF HUNTINGTON
COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS
SITUATED AT
HUNTINGTON STATION
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

DETAILS-3
CONTRACT No. 2017-100

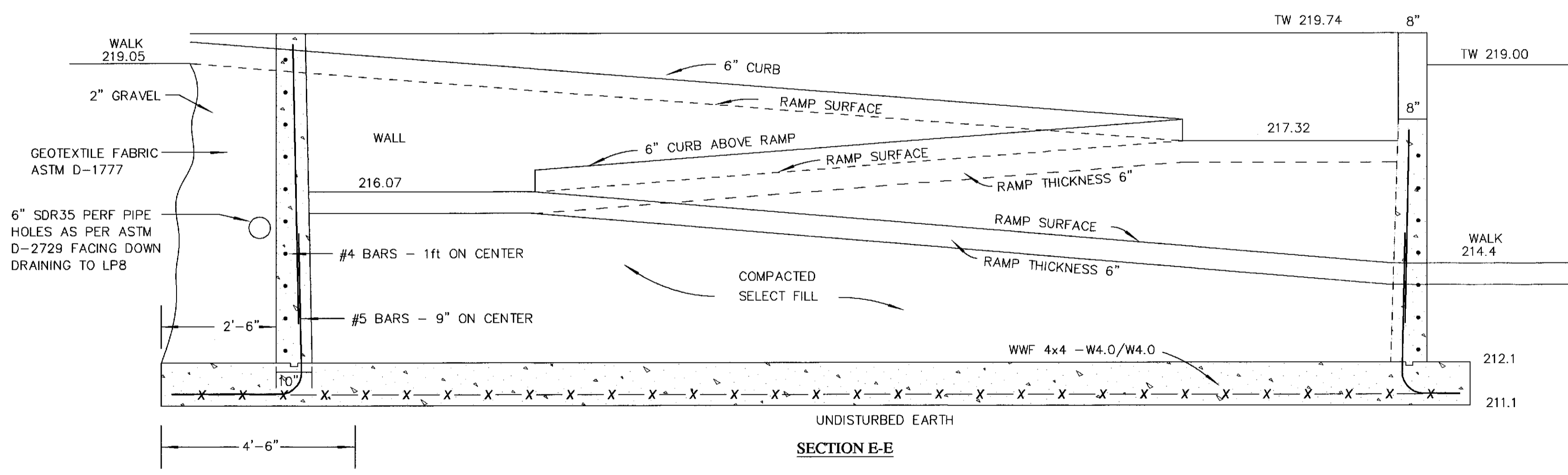
FILE: 400-140-3-72 SCALE: AS NOTED DATE: 8-15-14 DWG: SP-11



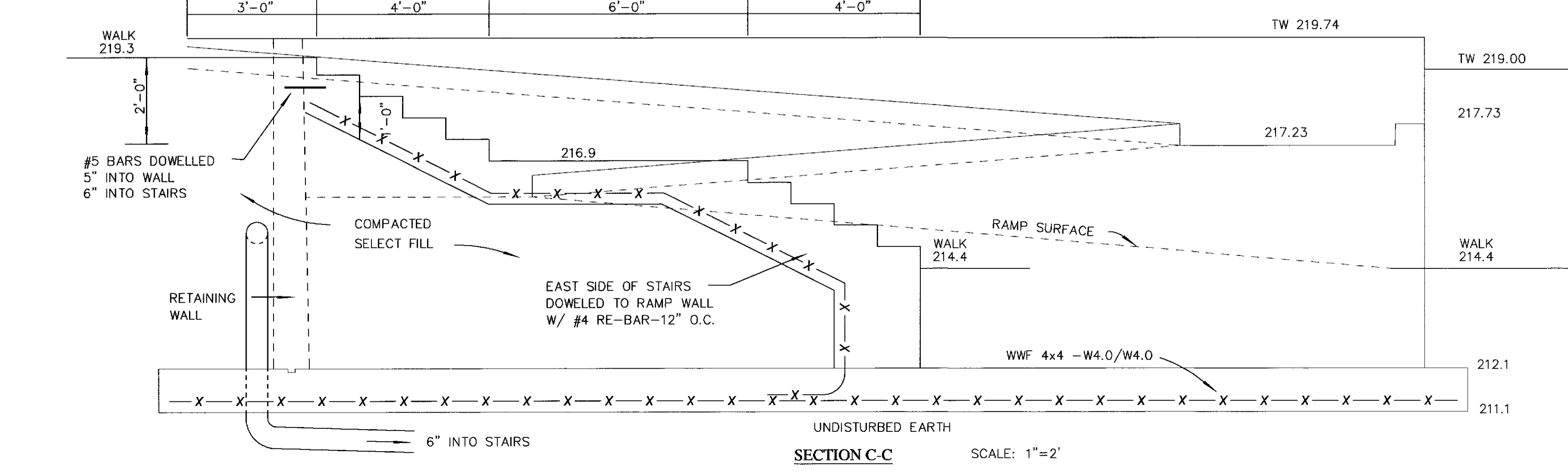
SECTION D-D



SECTION D-D

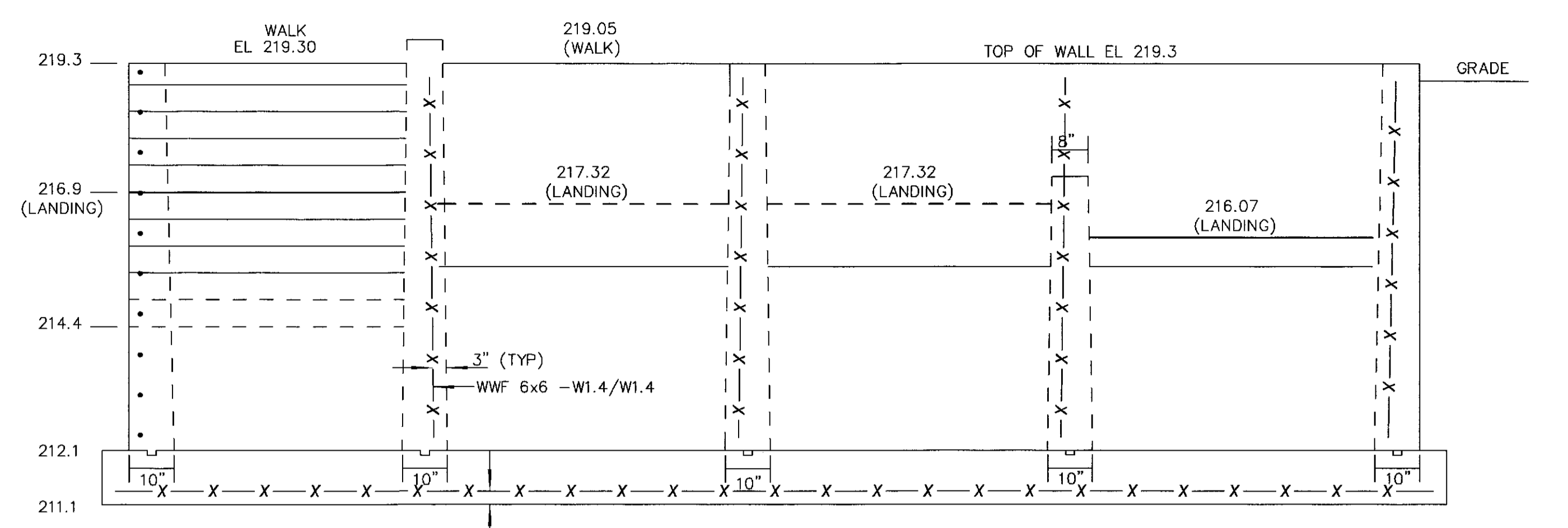


SECTION E-E



SECTION C-C

SCALE: 1"=2'

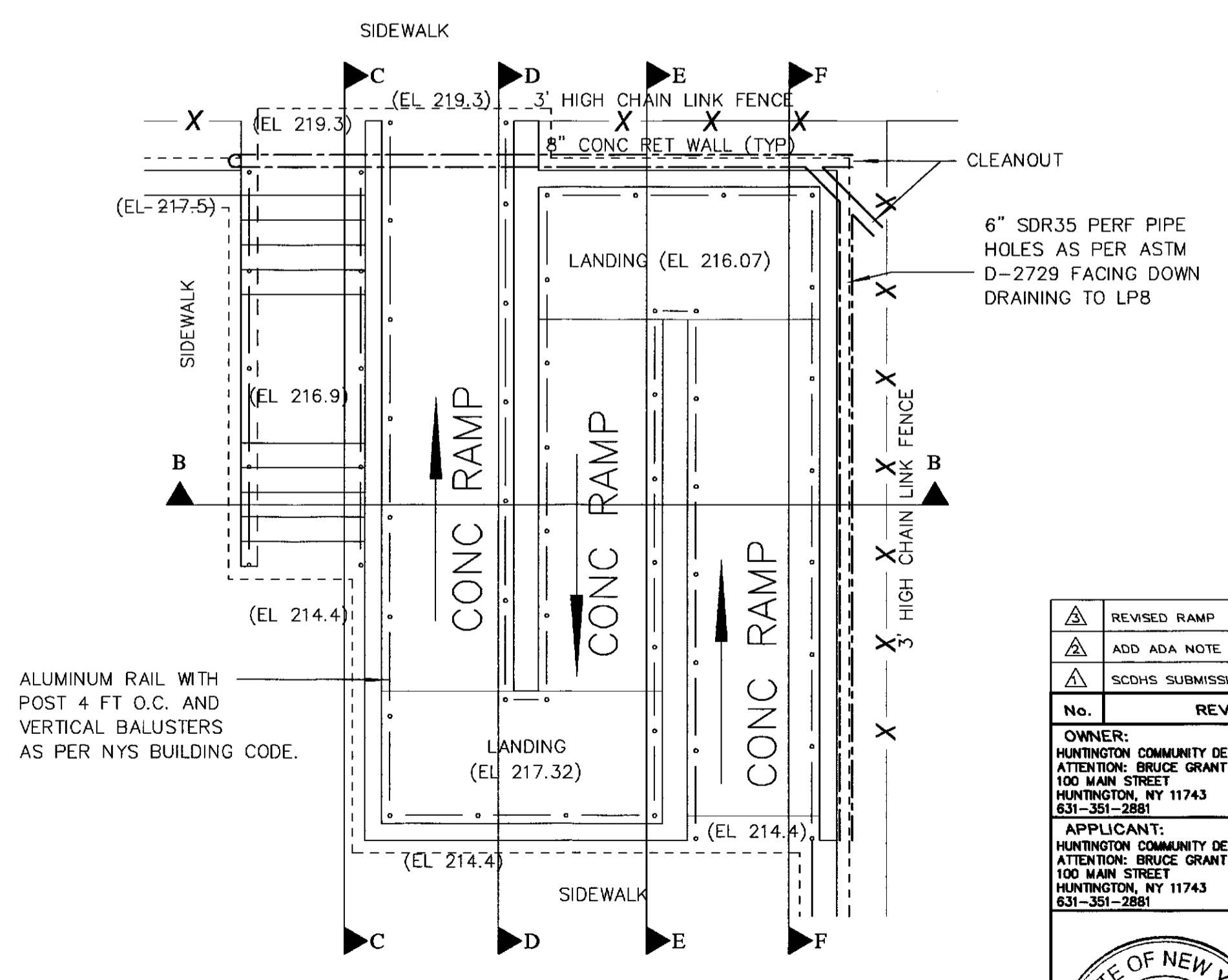


SECTION B-B

ALL STAIRS AND LANDINGS SLOPED 3/8" ≤ 1/8" PER FT BACK TO FRONT

NOTE

ALL CONCRETE RAMP SURFACES SHALL MEET ADA REQUIREMENTS FOR FINISHING.
ALL RAILS SHALL MEET ADA REQUIREMENTS.



HANDICAP RAMP DETAILS

SCALE: 1"=5'

No.	REVISION	DATE
1	REVISED RAMP	5/15/17
2	ADD ADA NOTE	7/15/16
3	SCDS SUBMISSION	5/2/15

OWNER:
HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2893

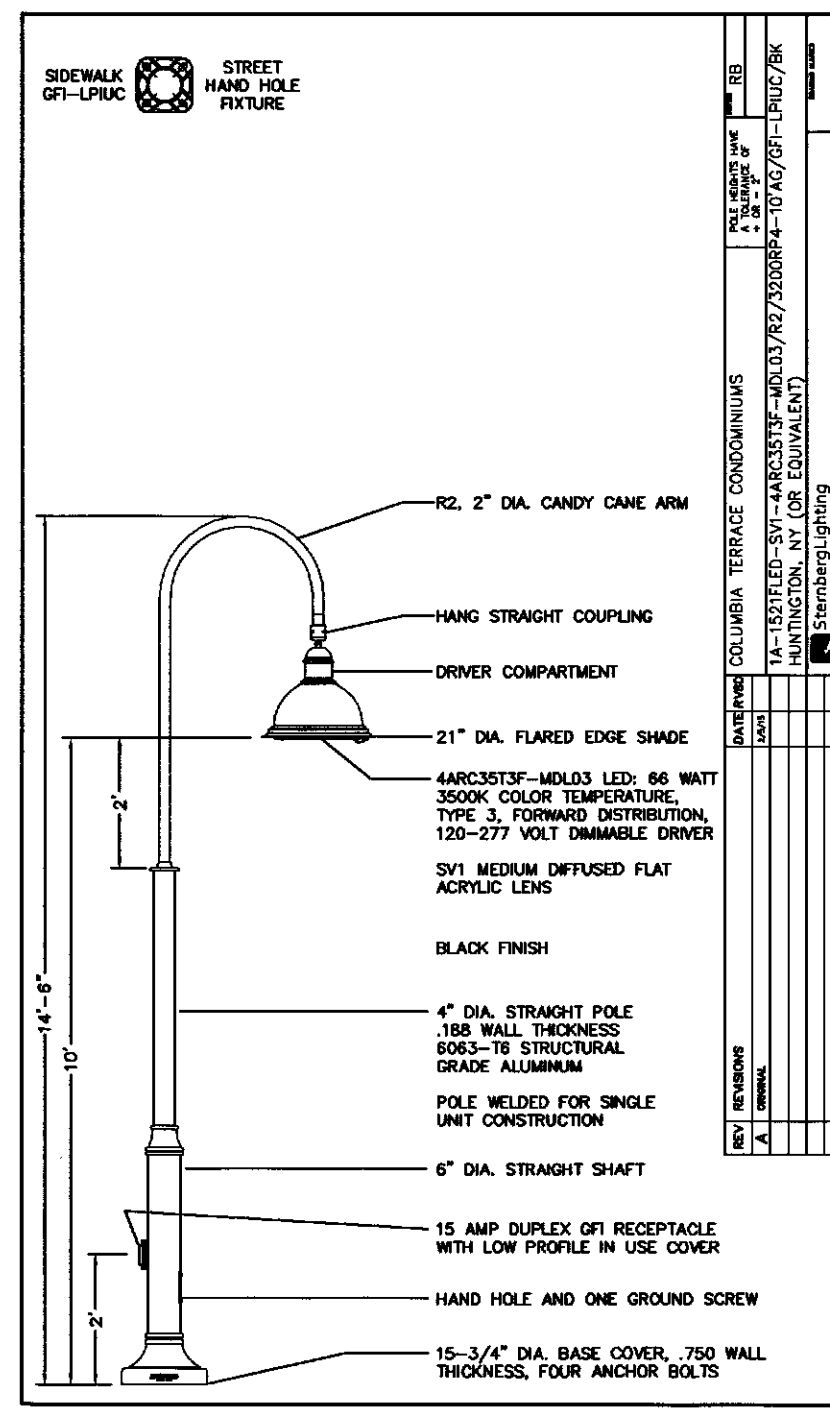
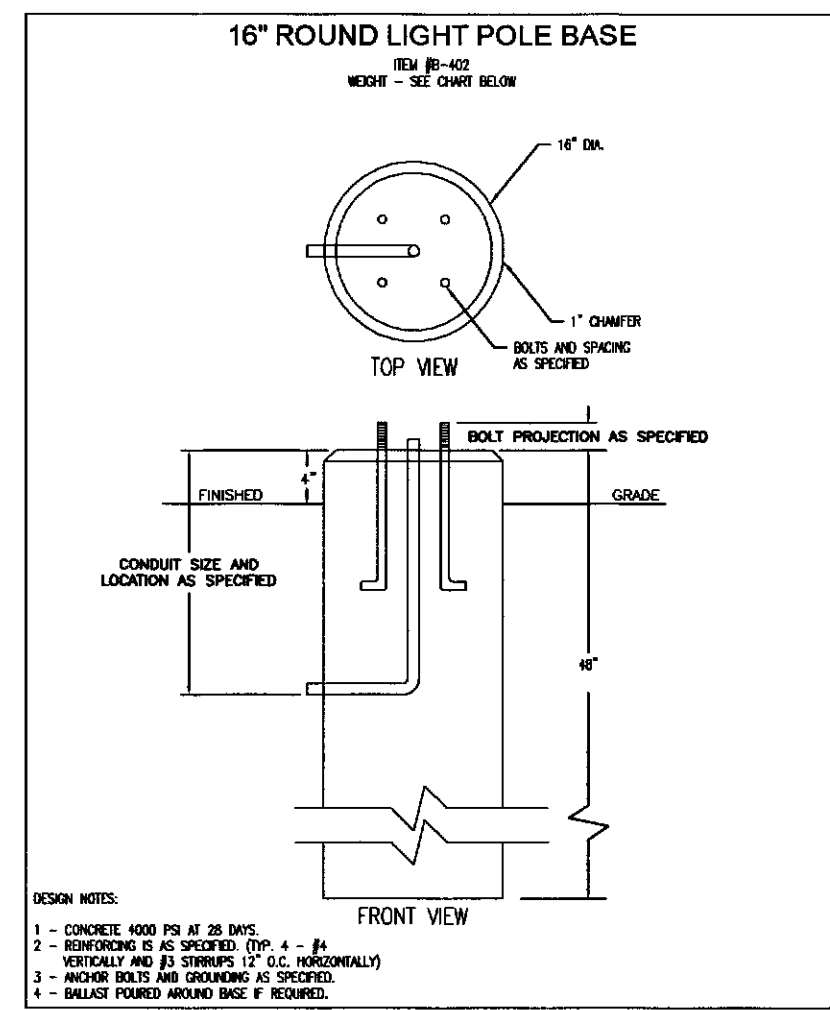
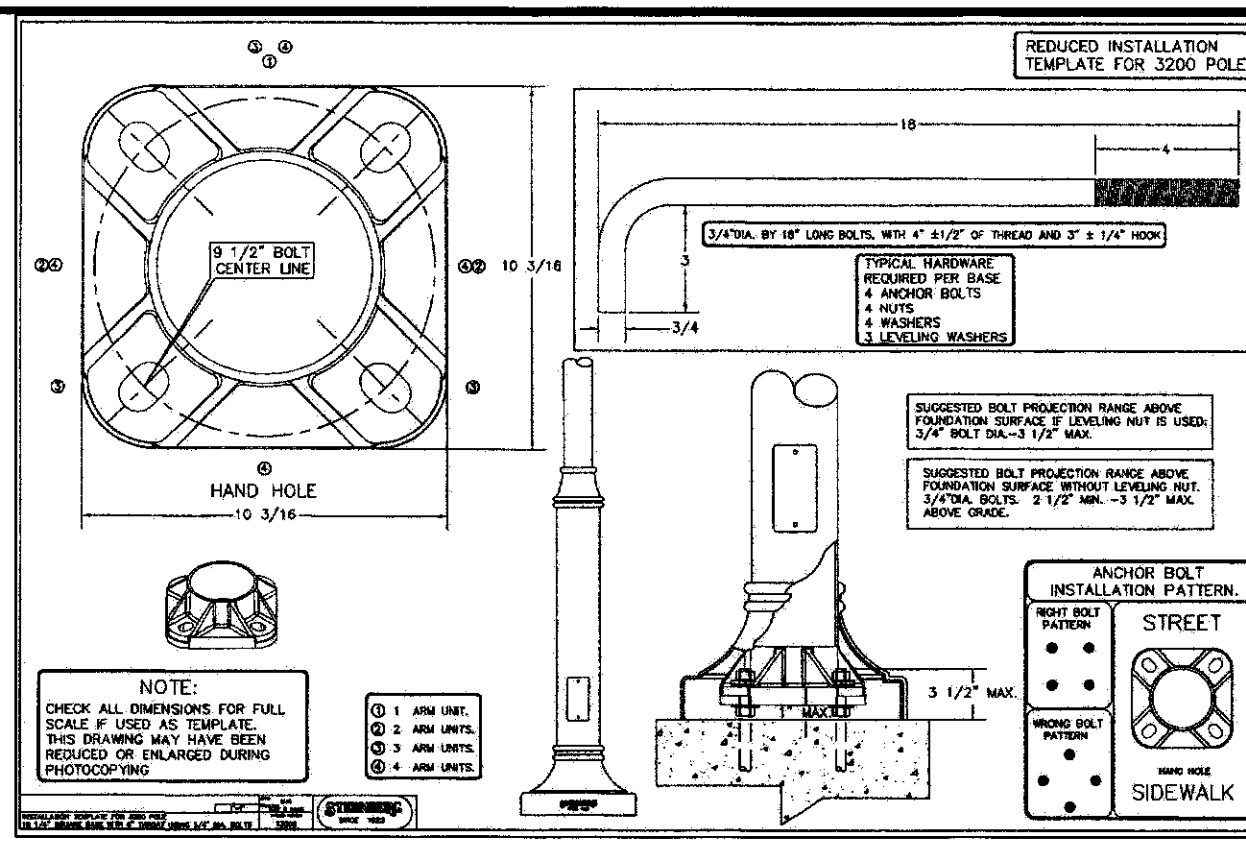
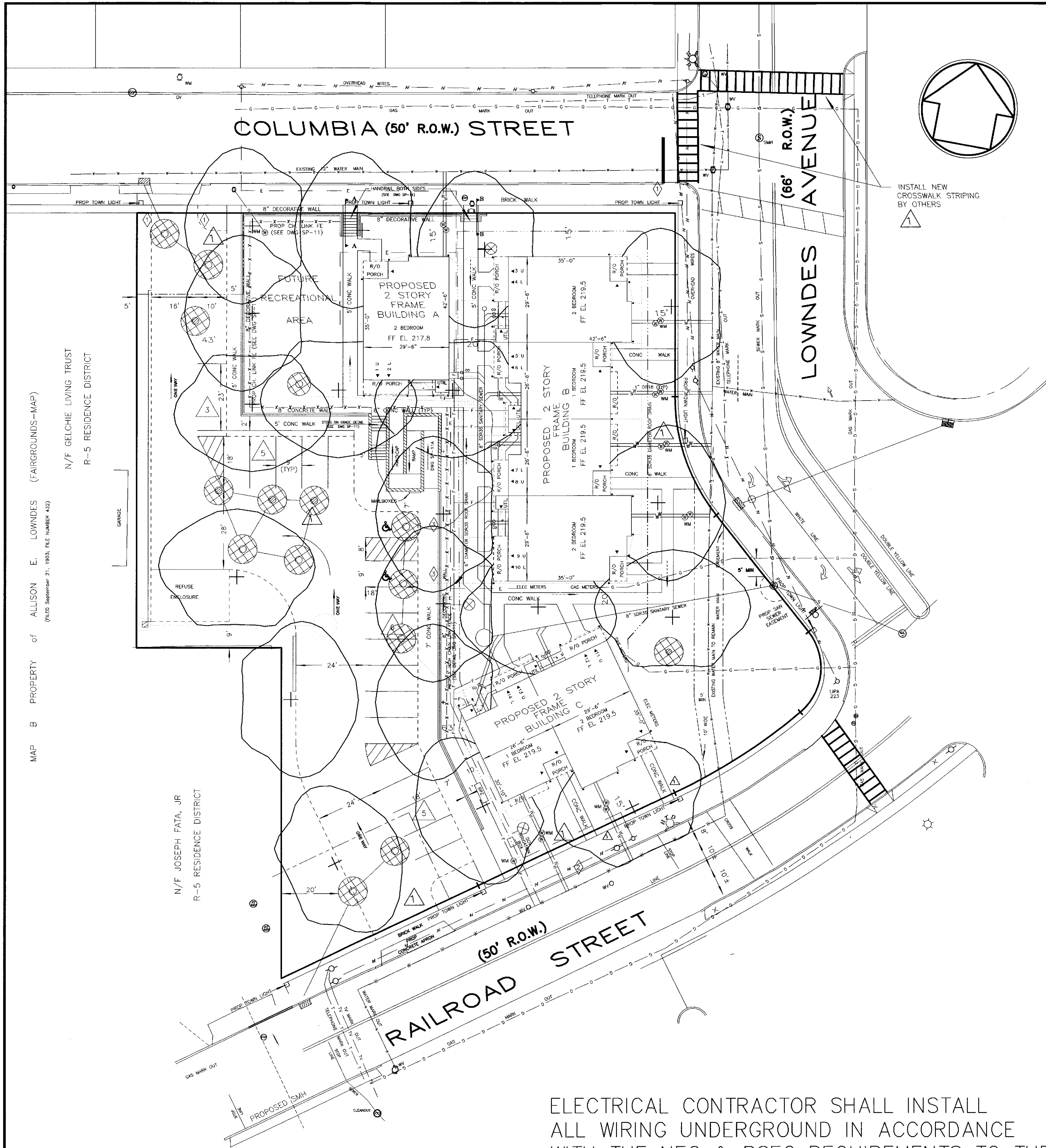
TOWN OF HUNTINGTON
COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS
SITUATED AT
HUNTINGTON STATION
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
DISTRICT 1400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117



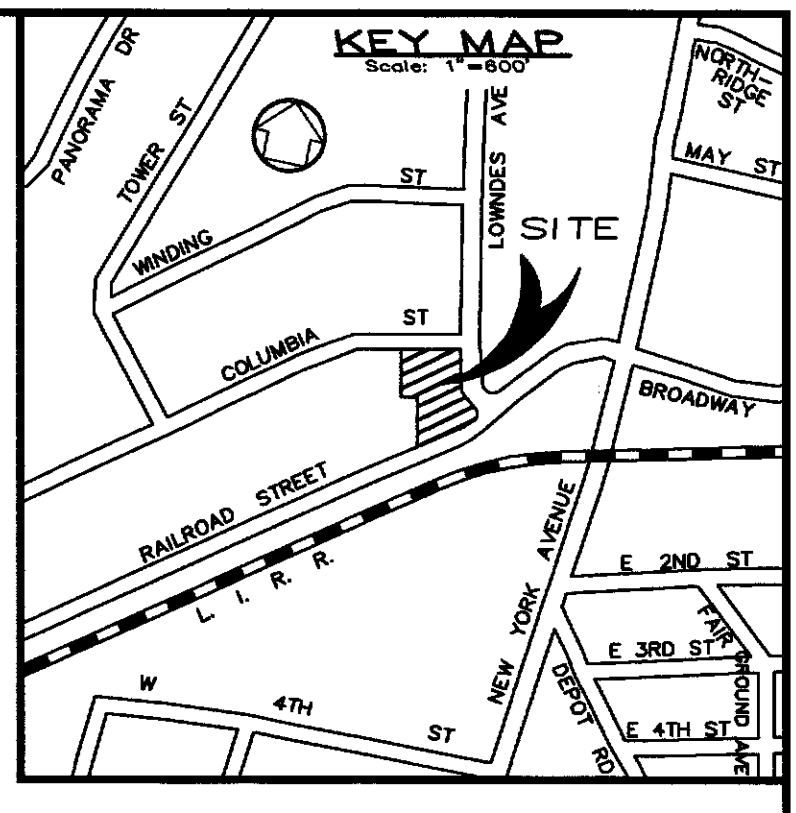
DETAILS-4
CONTRACT No. 2016-100G

ENGINEERING BY
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EAST NORTHPORT, NY 11731
Email: harteng0615@gmail.com

PHONE: 631-499-0987 FAX: 631-493-1254
FILE: 400-140-3-72 SCALE: AS NOTED DATE: 8-15-14 DWS: SP-11A



- LEGEND**
- CHAIN LINK FENCE
 - OVERHEAD WIRES
 - WATER
 - PROPERTY LINE
 - EXIST SEWER
 - TELEPHONE (N.I.C.)
 - EXIST GAS (N.I.C.)
 - ELECTRIC (N.I.C.)
 - SEWER (NEW)
 - GAS (NEW)
 - FIRE LINE (NEW)
 - IRRIGATION LINE (NEW)
 - DRAINAGE LINES (NEW)
 - UTILITY POLE (N.I.C.)
 - GUY WIRE (N.I.C.)
 - LIGHT POLE (N.I.C.)
 - HYDRANT (N.I.C.)
 - GAS VALVE (N.I.C.)
 - WATER VALVE (N.I.C.)
 - WATER METER
 - SIGN
 - HANDICAP PARKING SIGN
 - BOLLARD
 - PAINTED LINE
 - TRAFFIC DIRECTION
 - FULL YELLOW BARRIER LINE (N.I.C.)
 - SWAL
 - FULL YELLOW LANE LINE (N.I.C.)
 - HANDICAP PARKING
 - EXIST CONCRETE CURB
 - PROPOSED CURB
 - DECORATIVE WALL
 - CONCRETE WALL
 - EXISTING (NOT IN CONTRACT)
 - LIGHT POLE / LUMINAIRE



THE ENTIRE PROPERTY WITHIN THE METES AND BOUNDS SHOWN ON THESE DRAWINGS, IS TO BE DEVELOPED PER THESE PLANS.

FOR EXISTING CONDITIONS, SEE DWG SP-1. ALL CONDITIONS NOT ALSO ON THE SURVEY DWG SP-1, CONSTITUTE NEW WORK TO BE CONSTRUCTED UNDER CONTRACT NUMBER DESIGNATED ON DRAWINGS & SPECIFICATIONS.

JAMES V. De LUCCA, R.A.

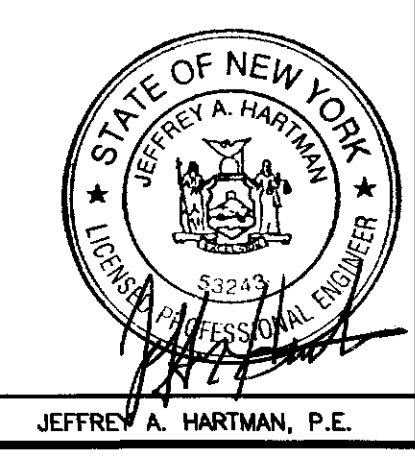
LIGHTING DESIGN BY
JAMES V. De LUCCA, R.A.
 REGISTERED ARCHITECT
 12 LINDA LANE EAST
 RIVERHEAD, NY 11901
 631-727-1611

No.	REVISION	DATE
△	REMOVED PAVILION	10/30/19
△	FOR RESUBMISSION	3/14/18
△	FOR RESUBMISSION	5/15/17
△	REVISED FOR RESUBMISSION	7/15/16
△	FOR RESUBMISSION	5/13/16
△	GENERAL REVISIONS	6/15/15
△	NO CHANGES THIS SHEET	5/2/15
△	WALKS, STREET LIGHTS	3/24/15

OWNER:
 HUNTINGTON COMMUNITY DEVELOPMENT AGY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

APPLICANT:
 HUNTINGTON COMMUNITY DEVELOPMENT AGY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

**TOWN OF HUNTINGTON
 COMMUNITY DEVELOPMENT AGENCY
 COLUMBIA TERRACE CONDOMINIUMS**
 SITUATE AT
HUNTINGTON STATION
 TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
 DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117



LIGHTING PLAN
 CONTRACT No. 2018-100

ENGINEERING BY
JEFFREY A. HARTMAN, P.E.
 ENGINEERING CONSULTANT
 8 ELWIN PLACE
 EAST NORTHPORT, NY 11751

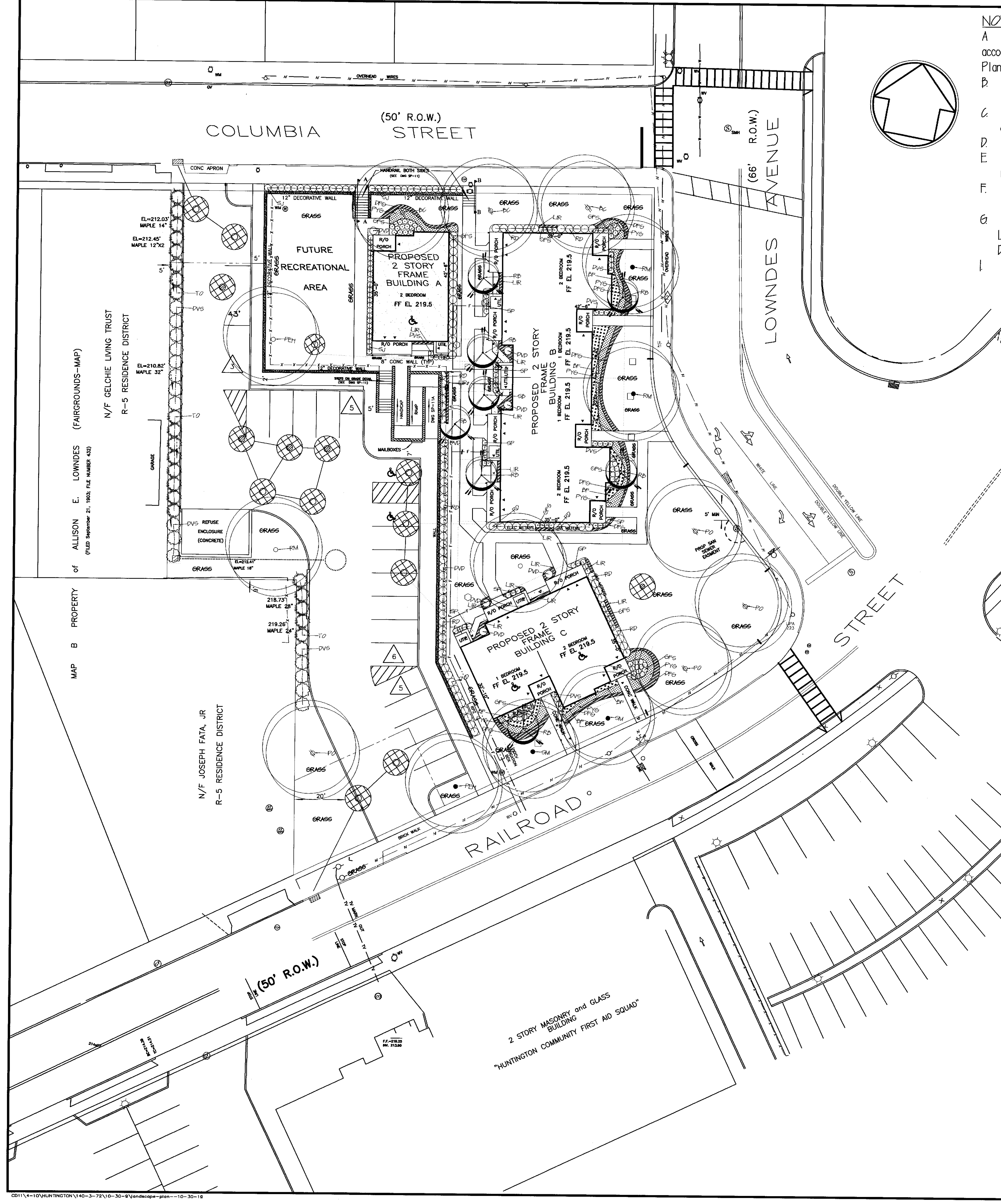
PHONE: 631-499-0987 FAX: 631-493-1254

JEFFREY A. HARTMAN, P.E. FILE: 400-140-3-72 SCALE: 1"=20' DATE: 2-19-15 DWG: SP-12

ELECTRICAL CONTRACTOR SHALL INSTALL ALL WIRING UNDERGROUND IN ACCORDANCE WITH THE NEC & PSEG REQUIREMENTS TO THE PAVILION AND TO THE 19 LUMINAIRES.

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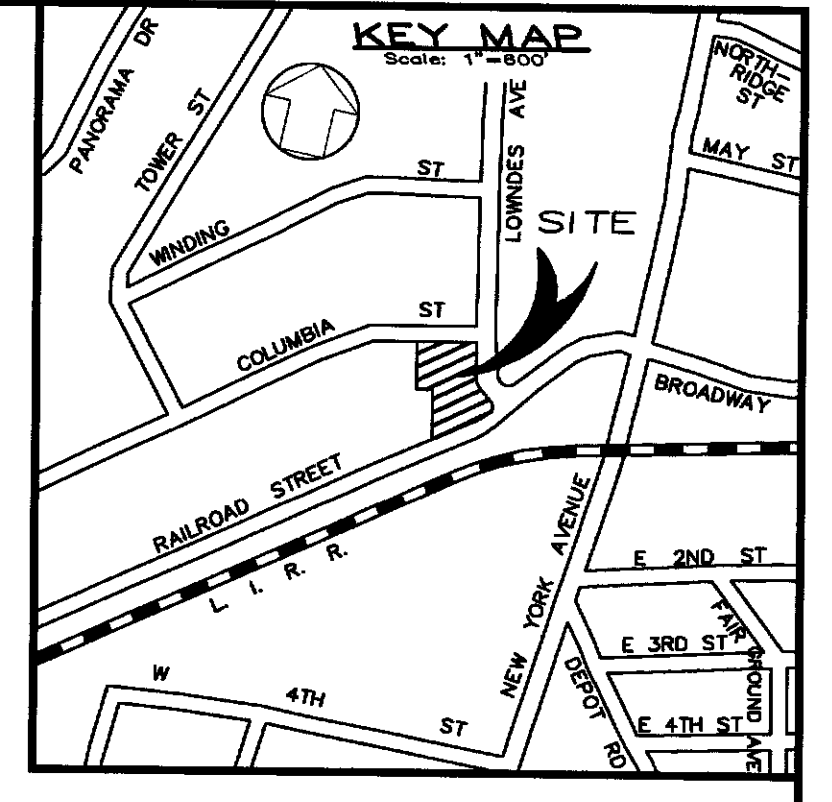


NOTES:

- A All trees, shrubs, grasses and groundcovers shall be planted in accordance with the Town of Huntington, Chapter 102, Subdivision and Site Plan Regulations, Section 83 LANDSCAPING
- B Existing vegetation shall be retained unless specified elsewhere on this plan
- C Plantings, other than lawn or low ground cover, shall be placed no closer than two feet from curb lines adjacent to parking stalls
- D All deciduous trees shall be staked and guyed
- E All root ball ties and wrapping around the tree trunks shall be removed at the time of planting
- F All planting beds shall be weeded and have a minimum of four (4) inch layer of shredded bark mulch Natural, no dyed mulch will be accepted.
- G There shall be no plant substitutions unless authorized by the Landscape Architect of record with the Planning and Environment Department.

LEGEND

- CHAIN LINK FENCE
- POST AND RAIL FENCE
- WIRE FENCE
- OVERHEAD WIRES
- WATER
- SEWER
- PROPOSED SEWER
- TELEPHONE
- PROPOSED TELEPHONE
- GAS
- ELECTRIC
- GUYED RAIL
- PROPOSED CURB
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- HYD --- HYDRANT
- WV --- WATER VALVE
- WM --- WATER METER
- HANDICAP PARKING
- EXISTING (NOT IN CONTRACT)
- SMH --- SANITARY MH
- E --- ELECTRIC MANHOLE
- T --- TELEPHONE MANHOLE
- DRAIN
- CATCH BASIN
- PROPERTY LINE
- SIGN
- MH --- MANHOLE
- CONC PAD WITH TRANSFORMER
- WS --- WATER SERVICE
- GV --- GAS VALVE
- FYBL --- FULL YELLOW BARRIER LINE
- SWLL --- SOLID WHITE LANE LINE
- FYLL --- FULL YELLOW LANE LINE
- DOOR LOCATION



PLANT SCHEDULE					
Sym	COMMON NAME	SCIENTIFIC NAME	QTY.	SIZE	NOTES
TREES					
RM	Red Maple	Acer rubrum 'Autumn Blaze	3	2 1/2 cal	Remove Lower Branches
SB	Serviceberry	Amelanchier canadensis	3	6'-8'ht.	Tree Form
RB	River Birch	Betula nigra 'Heritage	5	6-8'ht.	Multi Trunk
SM	Sweetbay Magnolia	Magnolia virginiana	2	2 1/2 cal	Tree Form
PO	Pin Oak	Quercus palustris	4	2 1/2 cal	3 Stake & Guy
BC	Bald Cypress	Taxodium distichum	3	2 1/2 cal	3 Stake & Guy
PEH	European Hornbeam	Carpinus betulus 'Fastigiata'	3	2 1/2 cal.	3 Stake & Guy
TO	Arborvitae	Thuja occidentalis 'Pyramidalis'	23	5'-6' ht.	As spaced
DVS	Green Columnar Juniper	Juniperus chinensis	16	5-6' ht.	As spaced
SHRUBS					
RD	Redtwig Dogwood	Cornus serica	53	3 gal.	As Spaced
GFS	Gold Flame Spirea	Spiraea bumalda	71	2 gal.	24" o.c.
DVS	Dwf. Virginia Sweetspire	Itea virginiana 'Little Henry'	21	3 gal.	As Spaced
DVD	Arrowwood	Viburnum dentatum	29	3 gal.	Dwf. Variety
SP	Sweet Pepper Bush	Clethra alnifolia	32	3 gal.	As Spaced
SJ	Japanese Skimmia	Skimmia japonica	52	2 gal.	3' o.c.
Perennials & Grasses					
BF	Blue Fescue	Festuca glauca 'Elijah Blue'	265	#1 CONT	12" o.c.
LIR	Liriope	Liriope muscari 'Big Blue'	75	1 gal.	18" o.c.
PYG	Ponytail Grass	Stipa tenuissima	125	1 gal.	24" o.c.
DFG	Dwf. Fountain Grass	Pennisetum setaceum	85	1 gal.	24" oc.

REMOVED PAVILION	10/30/19
FOR RE-SUBMISSION	3/14/18
FOR RE-SUBMISSION	5/15/17
FOR RE-SUBMISSION	7/15/16
REVISED RAMP, FIRE SERVICE	5/13/16
UPDATED SITE	
No. REVISION	DATE

OWNER:
HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

APPLICANT:
HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
ATTENTION: BRUCE GRANT
100 MAIN STREET
HUNTINGTON, NY 11743
631-351-2881

**TOWN OF HUNTINGTON
COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS**
SITUATE AT
HUNTINGTON STATION
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

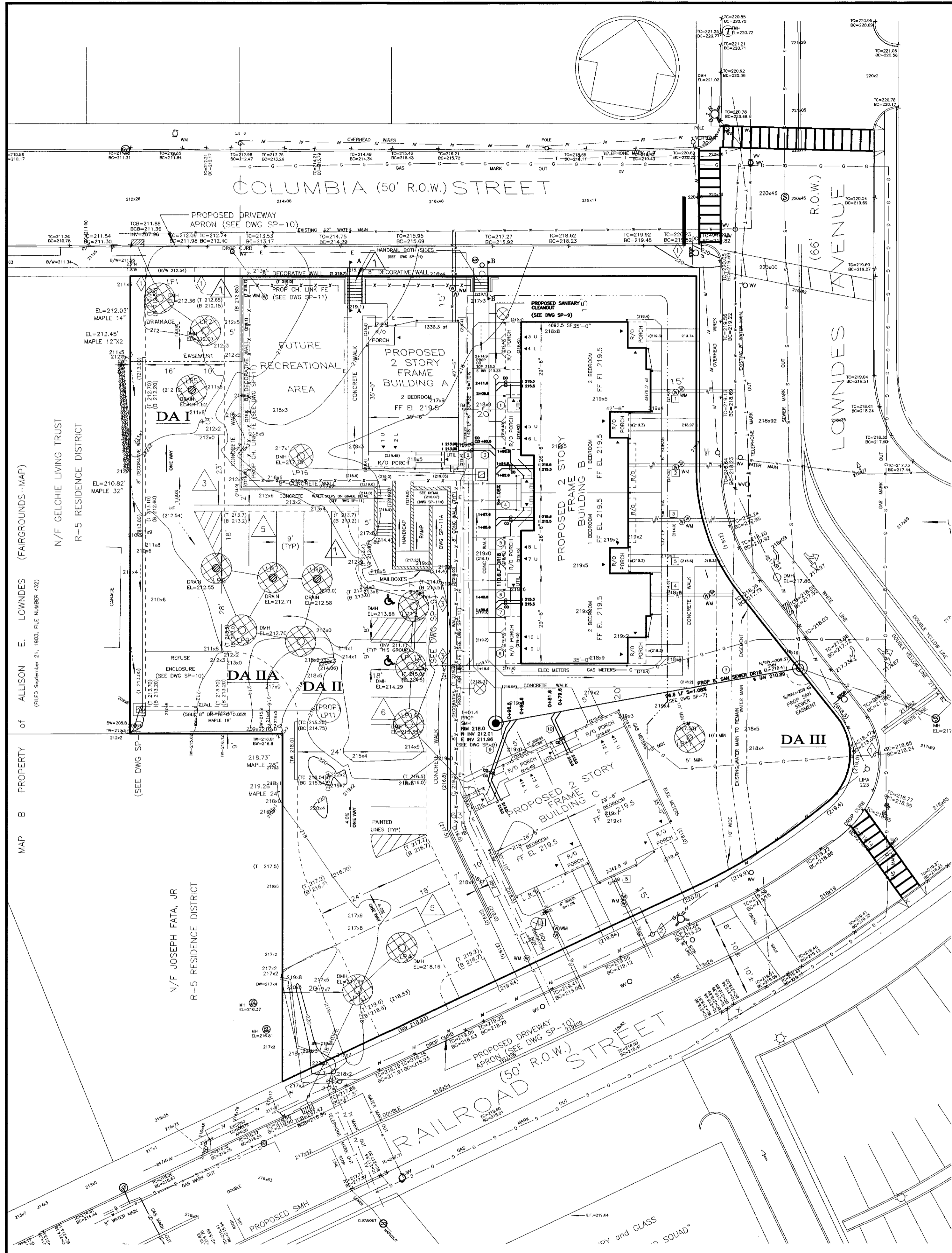
LANDSCAPE PLAN
CONTRACT No. 2018-100

ENGINEERING BY
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ENGINEERING CONSULTANT
8 ELWIN PLACE
EAST NORTHPORT, NY 11731

PHONE: 631-499-0987 FAX: 631-493-1254

STEVEN A. HABER R.L.A. FILE: 400-140-3-72 SCALE: 1"=20' DATE: 5-30-14 DWG: SP-13

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COVENANTS AND RESTRICTIONS, IF ANY, NOT INDICATED OR SHOWN UNLESS REQUESTED IN WRITING BY CLIENTS OR THEIR REPRESENTATIVE PRIOR TO SURVEY BEING DONE.
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SCALE=1"=20'

BUILDING NUMBER	UNIT NUMBER	STATION	INVERT AT MAIN	INVERT AT BLDG
BUILDING A	2	1+80.6	212.96	213.0
	3	1+88.6	212.95	213.0
	4	2+09.6	213.18	215.5
	5	1+84.6	212.91	215.5
BUILDING B	6	1+82.6	212.89	215.5
	7	1+67.6	212.72	215.5
	8	1+65.6	212.70	215.5
	9	1+40.6	212.43	215.5
	10	1+38.6	212.41	215.5
BUILDING C	11	0+79.6	211.75	213.0
	12	0+81.6	211.77	213.0
	13	0+94.6	211.91	213.0
	14	0+96.6	211.94	213.0

DESIGN FLOW

14 RESIDENTIAL UNITS
 FIRST FLOOR 1 BEDROOM = 756 Sq. Ft.
 SECOND FLOOR 1 BEDROOM = 840 Sq. Ft.
 FIRST FLOOR 2 BEDROOM = 1119 Sq. Ft.
 SECOND FLOOR 2 BEDROOM = 1212 Sq. Ft.

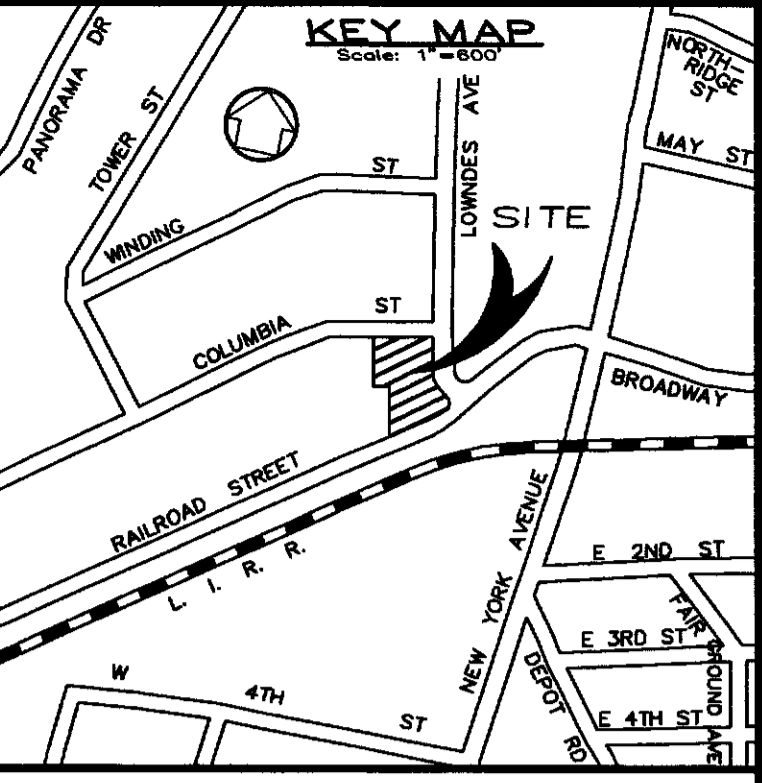
RESIDENTIAL HOUSING UNITS BETWEEN 601-1200 SF, GFA=225 gpd/unit
 RESIDENTIAL HOUSING UNITS GREATER THAN 1200 SF, GFA=300 gpd/unit

10 UNITS x 225 gpd = 2250 GPD
 4 UNITS x 300 gpd = 1200 GPD = 3450 GPD

ELEVATIONS SHOWN ARE IN TOWN DATUM.
 10' MINIMUM BETWEEN SEWER AND WATER/FIRE SERVICE LINES.
 5' MINIMUM BETWEEN SEWER AND GAS SERVICE LINES.

LEGEND

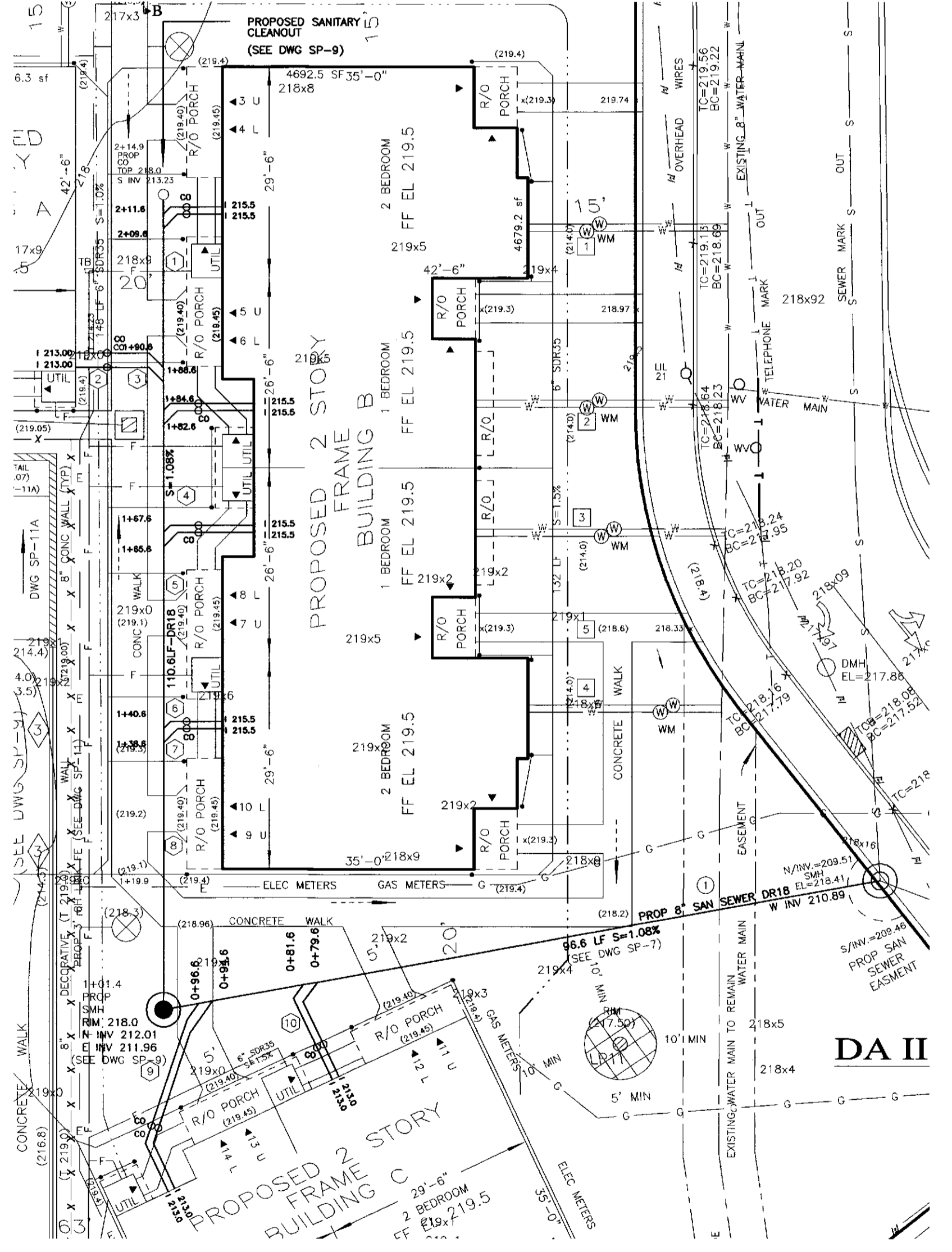
- CHAIN LINK FENCE
- OVERHEAD WIRES
- WATER
- WATER (N.I.C.)
- SEWER
- TELEPHONE (N.I.C.)
- GAS (N.I.C.)
- ELECTRIC (N.I.C.)
- STREET LIGHTS (N.I.C.)
- FIRE LINE DWG SP-3
- IRRIGATION LINE DWG SP-3
- DRAINAGE LINES
- UTILITY POLE (N.I.C.)
- LIGHT POLE (N.I.C.)
- HYD.L. --- HYDRANT (N.I.C.)
- GV --- GAS VALVE (N.I.C.)
- WM --- WATER VALVE (N.I.C.)
- WATER METER (N.I.C.)
- WS --- WATER SERVICE
- HANDICAP UNIT
- HANDICAP PARKING
- EXIST CONCRETE CURB
- PROPOSED CURB
- U --- UPPER RESIDENTIAL UNIT
- L --- LOWER RESIDENTIAL UNIT
- DECORATIVE WALL
- CONCRETE WALL
- WATER LINE W/WATER METER
- SMH ○ --- SANITARY MH (N.I.C.)
- E ○ --- ELECTRIC MANHOLE (N.I.C.)
- T ○ --- TELEPHONE MANHOLE (N.I.C.)
- DMH ○ --- DRAINAGE MANHOLE COVER
- MH ○ --- MANHOLE COVER
- --- DRAIN
- CATCH BASIN
- BC --- TOP OF CURB DWG SP-4
- BC --- BOTTOM OF CURB DWG SP-4
- BW --- BACK OF WALK / BOTTOM OF WALL
- TW --- TOP OF WALL
- FLOW DIRECTION
- DC --- DROP CURB SEE DWG SP-10
- SIGN
- HANDICAP PARKING SIGN DWG SP-9
- BOLLARD AT REFUSE ENCL. DWG SP-10
- PAINTED STRIPING
- TRAFFIC DIRECTION
- FYBL --- FULL YELLOW BARRIER LINE (N.I.C.)
- SWLL --- SOLID WHITE LANE LINE
- FYLL --- FULL YELLOW LANE LINE (N.I.C.)
- CONCRETE
- DOOR LOCATION
- TB --- THRUST BLOCK
- PL --- PAINTED LINE
- N.I.C. --- NOT IN CONTRACT



CROSSING NUMBER	SEWER TOP PIPE	WATER BOT. PIPE	CLEAR DISTANCE
1	213.82	216.0	2.18
2	213.50	215.10	1.60
3	213.64	216.0	2.36
4	213.43	216.0	2.57
5	213.32	216.0	2.68
6	213.13	216.0	2.87
7	213.04	216.0	2.96
8	212.86	214.80	1.94
9	213.10	215.2	2.1
10	213.20	215.6	2.4

CROSSING NUMBER	SEWER BOT. PIPE	WATER TOP PIPE	CLEAR DISTANCE
1	214.0	211.8	2.2

CROSSING NUMBER	WATER TOP PIPE	DRAINAGE BOT. PIPE	CLEAR DISTANCE
1	214.0	216.98	2.98
2	214.0	216.60	2.60
3	214.0	216.34	2.34
4	214.0	215.98	1.98
5	214.0	216.21	2.21
6	214.0	215.84	1.84



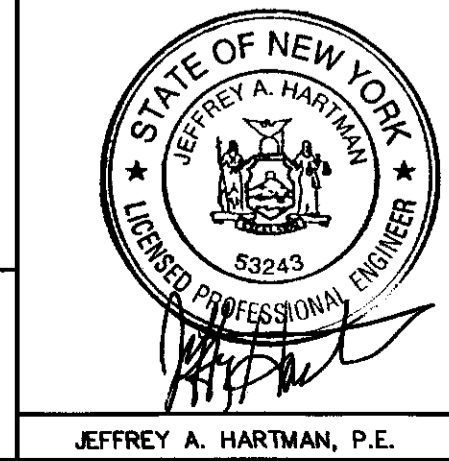
SCALE=1"=15'

No.	REVISION	DATE
1	REMOVED PAVILION	10/30/19
2	REVISED FOR RESUBMISSION	3/14/18
3	REVISED FOR RESUBMISSION	5/15/17
4	ADD CLEANOUTS, WATER METERS	7/15/16
5	REVISED SANIT GRABES, REMOVE CLEANOUTS, ADD HOUSE CONN CHART	5/13/16
6	REVERSE HANDICAP RAMP	4/25/16
7	GENERAL REVISIONS	6/15/15
8	REVISED TO PAVER WALKS	3/24/15
9	REVISED WATER MAIN, DA3, ADDED WATER EASEMENT	1/30/15
10	REVISED VARIOUS NOTES	9/5/14

OWNER:
 HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

APPLICANT:
 HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
 ATTENTION: BRUCE GRANT
 100 MAIN STREET
 HUNTINGTON, NY 11743
 631-351-2881

TOWN OF HUNTINGTON COMMUNITY DEVELOPMENT AGENCY
COLUMBIA TERRACE CONDOMINIUMS
 SITUATE AT
HUNTINGTON STATION
 TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
 DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117



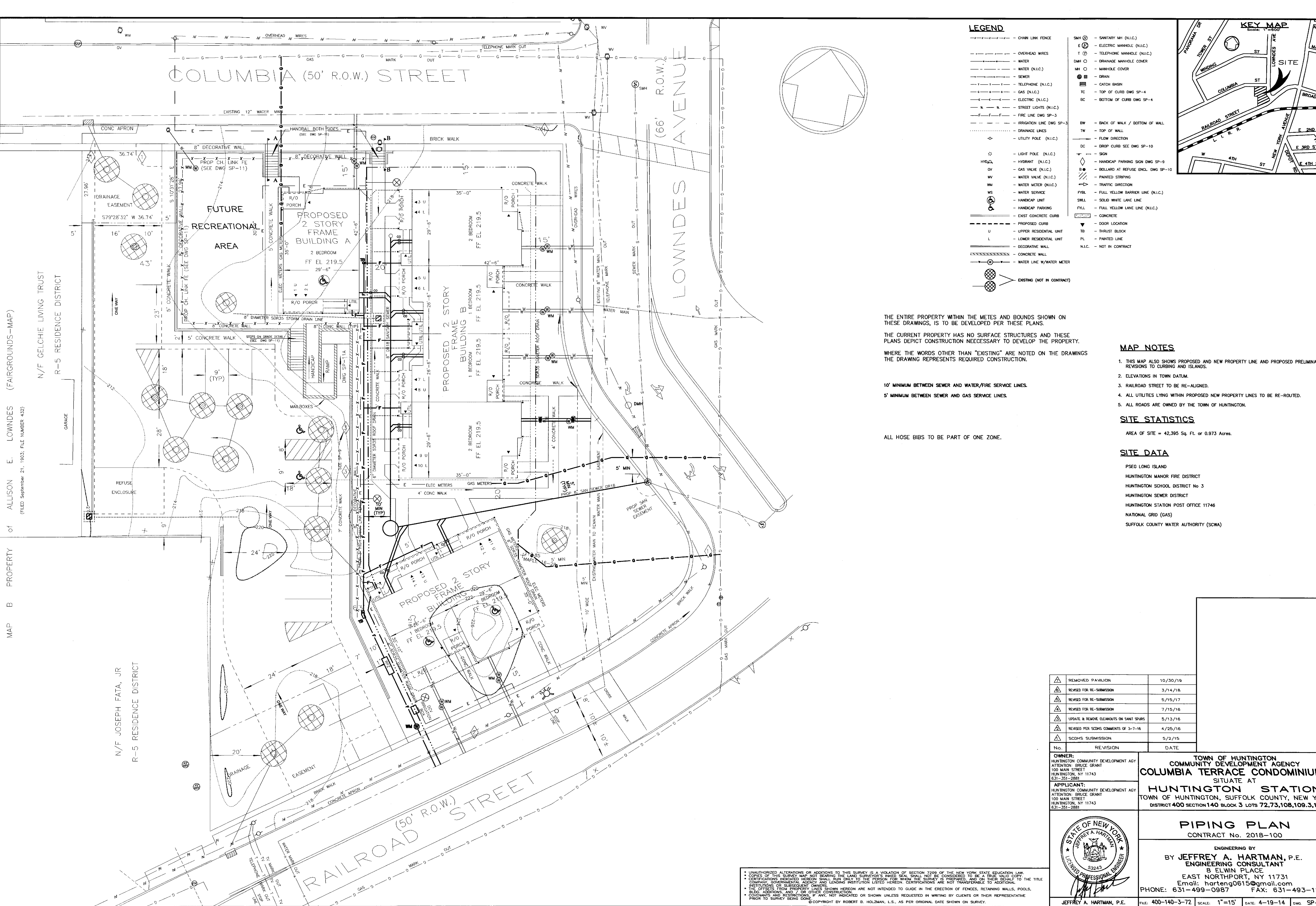
SANITARY SEWER PLAN
 CONTRACT No. 2018-100

ENGINEERING BY
BY JEFFREY A. HARTMAN, P.E.
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 8 ELWIN PLACE
 EAST NORTHPORT, NY 11731
 Email: harteng0615@gmail.com

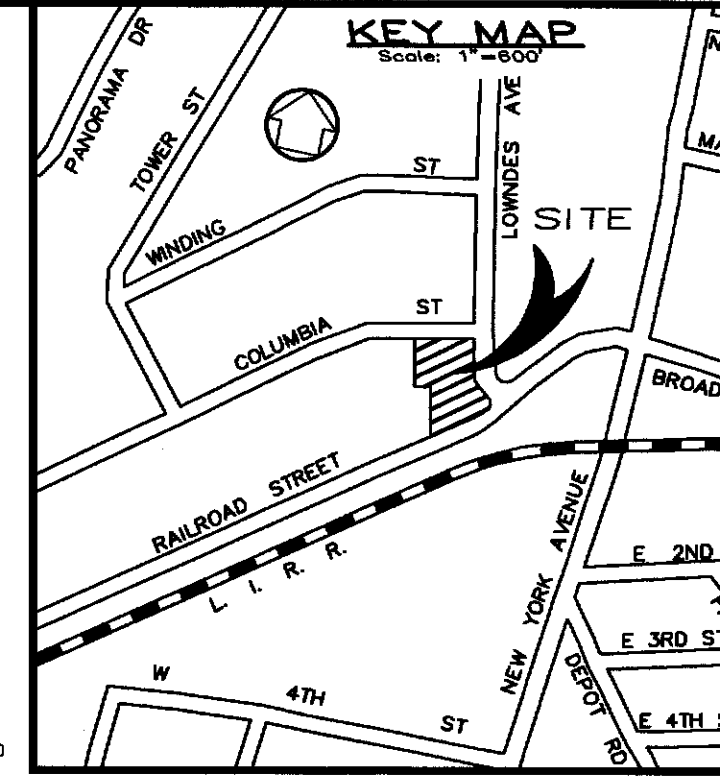
PHONE: 631-499-0987 FAX: 631-493-1254
 FILE: 400-140-3-72 SCALE: 1"=20' DATE: 2-19-15 DWG SP-14

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- ### LEGEND
- CHAIN LINK FENCE
 - OVERHEAD WIRES
 - WATER (N.I.C.)
 - GAS (N.I.C.)
 - SEWER (N.I.C.)
 - TELEPHONE (N.I.C.)
 - ELECTRIC (N.I.C.)
 - STREET LIGHTS (N.I.C.)
 - FIRE LINE DWG SP-3
 - IRRIGATION LINE DWG SP-3
 - DRAINAGE LINES
 - UTILITY POLE (N.I.C.)
 - LIGHT POLE (N.I.C.)
 - HYD/CV HYDRANT (N.I.C.)
 - GV GAS VALVE (N.I.C.)
 - WV WATER VALVE (N.I.C.)
 - WM WATER METER (N.I.C.)
 - HANDICAP UNIT
 - HANDICAP PARKING
 - EXIST CONCRETE CURB
 - PROPOSED CURB
 - U UPPER RESIDENTIAL UNIT
 - L LOWER RESIDENTIAL UNIT
 - DECORATIVE WALL
 - CONCRETE WALL
 - WATER LINE W/WATER METER
 - EXISTING (NOT IN CONTRACT)
 - SMH ○ SANITARY MH (N.I.C.)
 - E (E) ELECTRIC MANHOLE (N.I.C.)
 - T (T) TELEPHONE MANHOLE (N.I.C.)
 - DMH ○ DRAINAGE MANHOLE COVER
 - MH ○ MANHOLE COVER
 - DRAIN
 - CATCH BASIN
 - TC TOP OF CURB DWG SP-4
 - BC BOTTOM OF CURB DWG SP-4
 - BW --- BACK OF WALK / BOTTOM OF WALL
 - TW --- TOP OF WALL
 - FLOW DIRECTION
 - DC --- DROP CURB SEE DWG SP-10
 - SIGN
 - ◇ HANDICAP PARKING SIGN DWG SP-9
 - BOLLARD AT REFUSE ENCL DWG SP-10
 - WATER MARK
 - TRAFFIC DIRECTION
 - WS --- WATER SERVICE
 - SWLL --- SOLID WHITE LANE LINE
 - FYLL --- FULL YELLOW LANE LINE (N.I.C.)
 - CONCRETE
 - ▽ DOOR LOCATION
 - TB --- THRUST BLOCK
 - PL --- PAINTED LINE
 - N.I.C. --- NOT IN CONTRACT



THE ENTIRE PROPERTY WITHIN THE METES AND BOUNDS SHOWN ON THESE DRAWINGS, IS TO BE DEVELOPED PER THESE PLANS.

THE CURRENT PROPERTY HAS NO SURFACE STRUCTURES AND THESE PLANS DEPICT CONSTRUCTION NECESSARY TO DEVELOP THE PROPERTY.

WHERE THE WORDS OTHER THAN "EXISTING" ARE NOTED ON THE DRAWINGS THE DRAWING REPRESENTS REQUIRED CONSTRUCTION.

10' MINIMUM BETWEEN SEWER AND WATER/FIRE SERVICE LINES.

5' MINIMUM BETWEEN SEWER AND GAS SERVICE LINES.

ALL HOSE BIBS TO BE PART OF ONE ZONE.

MAP NOTES

1. THIS MAP ALSO SHOWS PROPOSED AND NEW PROPERTY LINE AND PROPOSED PRELIMINARY REVISIONS TO CURBING AND ISLANDS.
2. ELEVATIONS IN TOWN DATUM.
3. RAILROAD STREET TO BE RE-ALIGNED.
4. ALL UTILITIES LYING WITHIN PROPOSED NEW PROPERTY LINES TO BE RE-ROUTED.
5. ALL ROADS ARE OWNED BY THE TOWN OF HUNTINGTON.

SITE STATISTICS

AREA OF SITE = 42,395 Sq. Ft. or 0.973 Acres.

SITE DATA

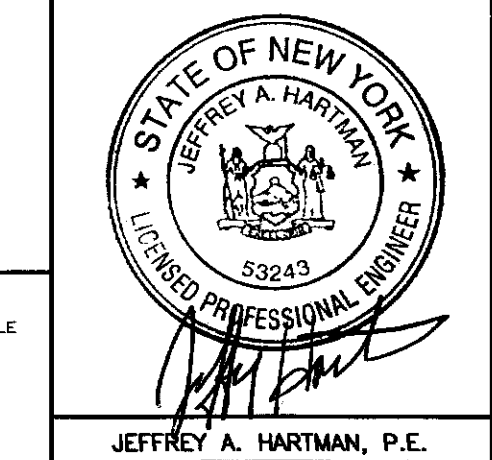
- PSEG LONG ISLAND
- HUNTINGTON MANOR FIRE DISTRICT
- HUNTINGTON SCHOOL DISTRICT No. 3
- HUNTINGTON SEWER DISTRICT
- HUNTINGTON STATION POST OFFICE 11746
- NATIONAL GRID (GAS)
- SUFFOLK COUNTY WATER AUTHORITY (SCWA)

No.	REVISION	DATE
△	REMOVED PAVILION	10/30/19
△	REVISED FOR RE-SUBMISSION	3/14/18
△	REVISED FOR RE-SUBMISSION	5/15/17
△	REVISED FOR RE-SUBMISSION	7/15/16
△	UPDATE & REMOVE CLEANOUTS ON SANITARY SPURS	5/13/16
△	REVISED PER SCWA COMMENTS OF 3-7-16	4/25/16
△	SCDMS SUBMISSION	5/2/15

OWNER:
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SITUATE AT
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DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,1



PIPING PLAN
CONTRACT No. 2018-100

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FILE: 400-140-3-72 SCALE: 1"=15' DATE: 4-19-14 DWG. SP-

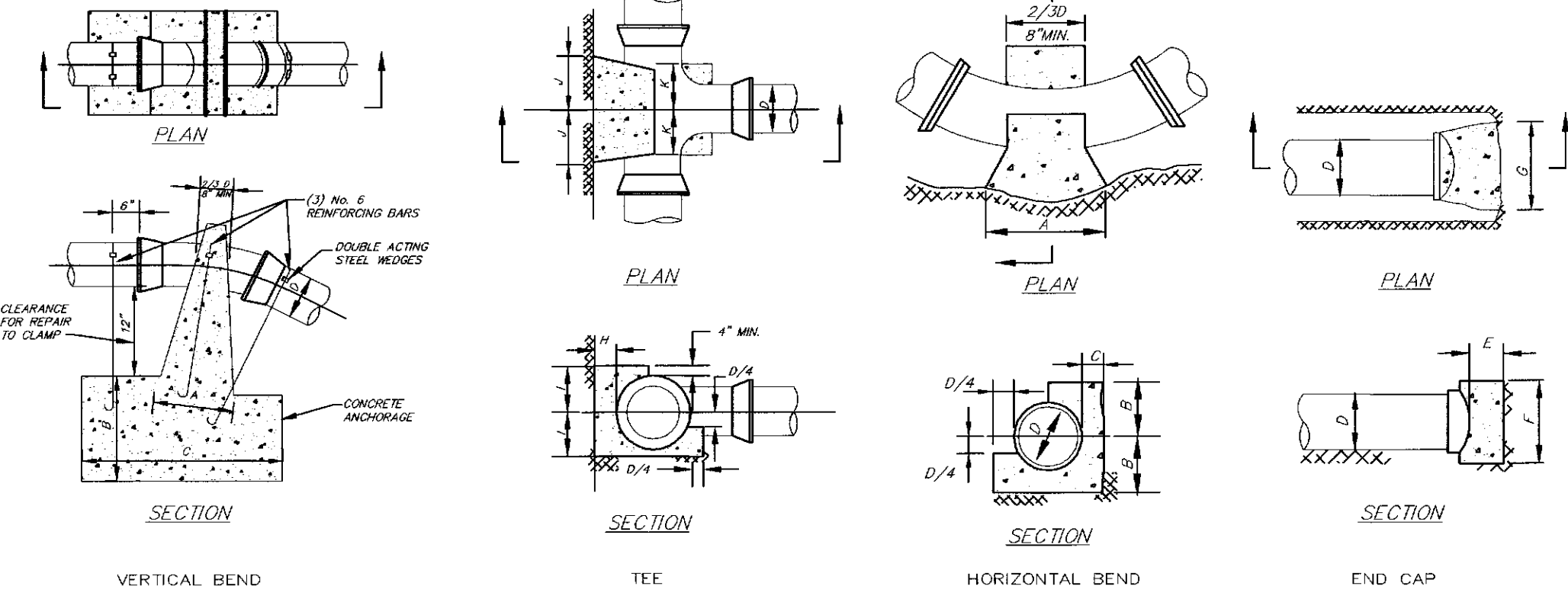
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW.
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THE OFFSETS FROM PROPERTY LINES SHOWN HEREON ARE NOT INTENDED TO GLIDE IN THE ERECTION OF FENCES, RETAINING WALLS, POOLS, BLEED ADDITIONS, AND / OR OTHER CONSTRUCTION.
COVENANTS AND RESTRICTIONS, IF ANY, NOT INDICATED OR SHOWN UNLESS REQUESTED IN WRITING BY CLIENTS OR THEIR REPRESENTATIVE PRIOR TO SURVEY BEING DONE.
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TECHNICAL SPECIFICATIONS – WATER MAINS AND APPURTENANCES

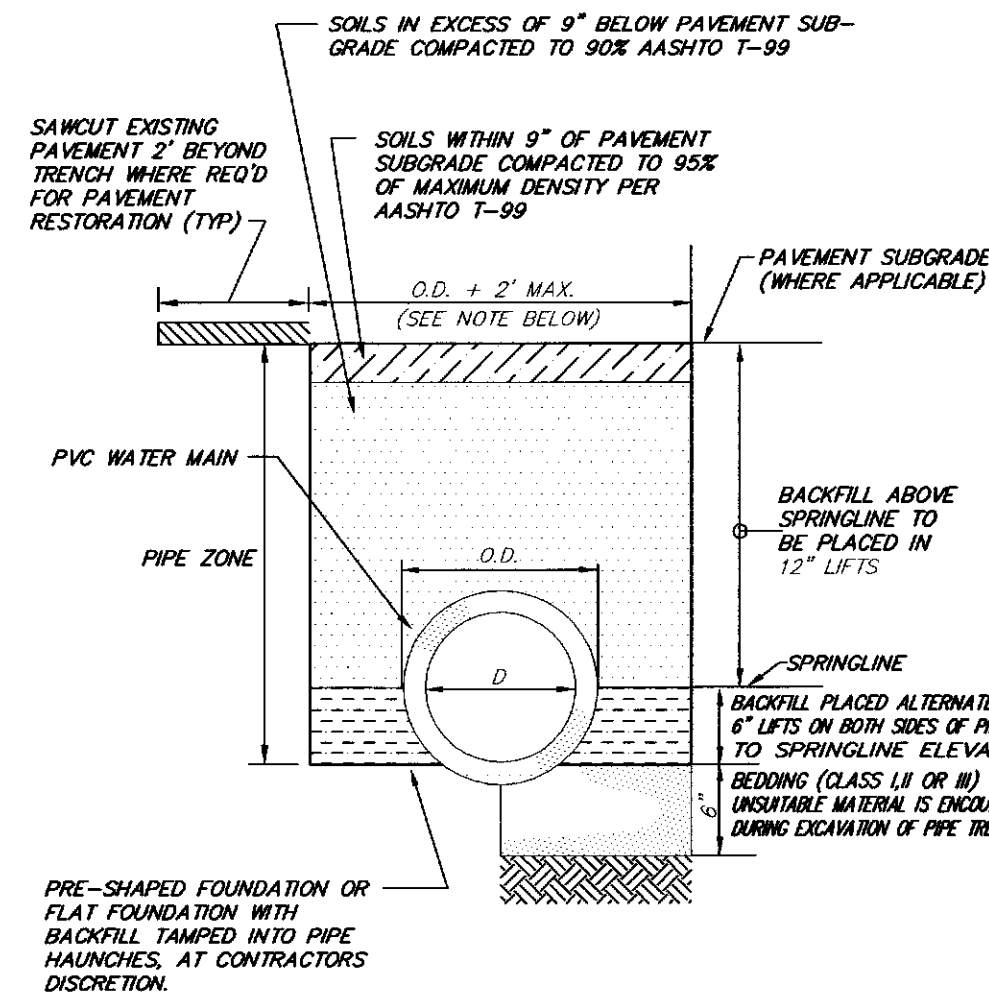
BEND	DIAMETER (D)					
	6"	8"	10"	12"	16"	
1/32"	A	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"
	B	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"
	C	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
1/16"	A	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	B	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	C	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
1/8"	A	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	B	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
	C	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"

BEND	DIAMETER (D)				
	6"	8"	10"	12"	
1/32"	A	8"	8"	10"	12"
	B	7"	8"	9"	10"
	C	7"	7"	8"	9"
1/16"	A	9"	12"	1'-6"	1'-9"
	B	7"	8"	9"	10"
	C	8"	9"	10"	11"
1/8"	A	1'-3"	1'-6"	1'-9"	2'-0"
	B	7"	8"	9"	10"
	C	8"	9"	10"	11"
1/4"	A	2'-0"	2'-6"	3'-0"	3'-6"
	B	2'-0"	2'-6"	3'-0"	3'-6"
	C	2'-0"	2'-6"	3'-0"	3'-6"

D	DIAMETER (D)			
	6"	8"	10"	12"
E	6"	8"	10"	12"
F	12"	1'-4"	1'-8"	2'-10"
G	1'-5"	1'-11"	2'-5"	2'-10"

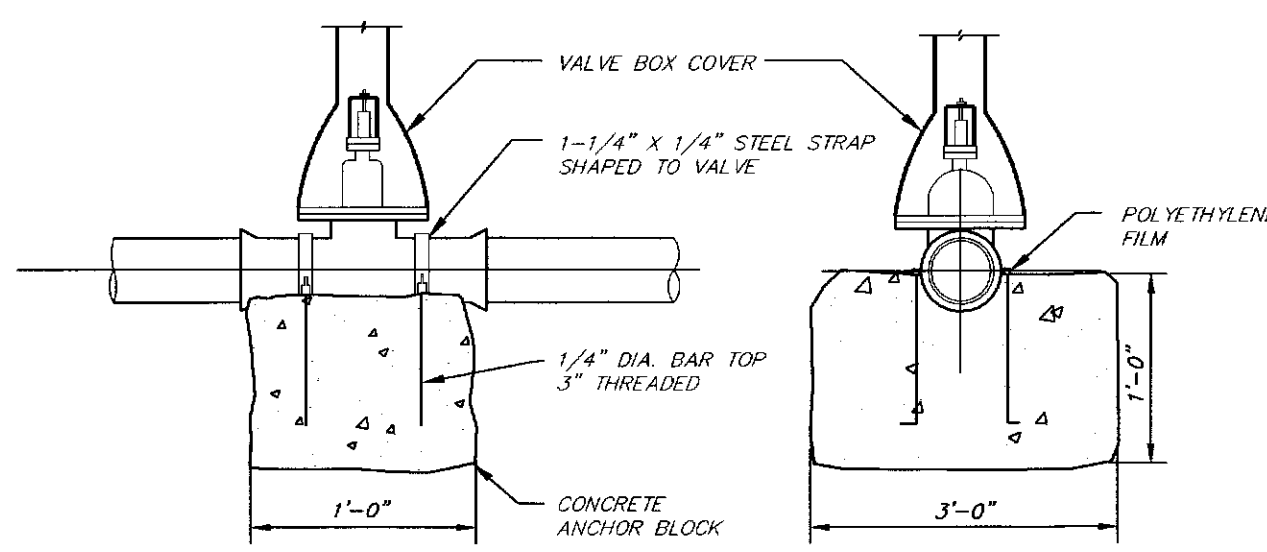


THRUST BLOCK DETAILS

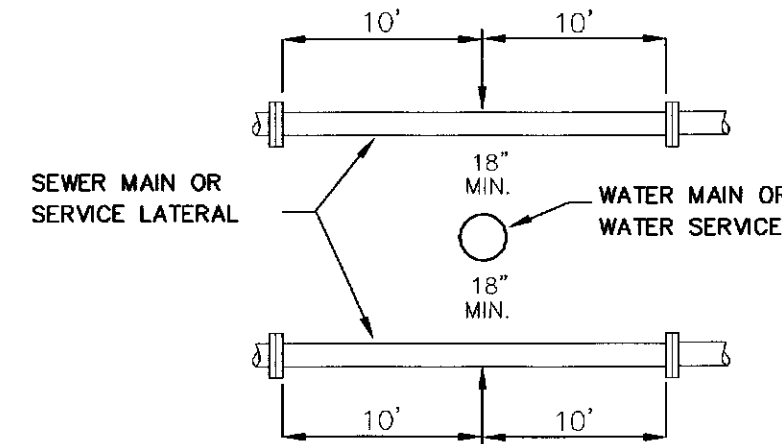


- NOTES**
- CLASS I, II, III OR IV COMPACTED BACKFILL MATERIAL REQUIRED IN ALL PIPE ZONES, PER USCS (UNIFIED SOIL CLASSIFICATION SYSTEM).
 - IF DEPTH OF TRENCH EXCEEDS 5', THE CONTRACTOR MUST PROVIDE SHEETING AND BRACING OR A SHEETING BOX IN ACCORDANCE WITH OSHA REGULATIONS. AS AN ALTERNATIVE, IF PERMITTED BY THE ENGINEER, THE TRENCH WALLS MAY BE CUT BACK TO A 1:1 SLOPE OR THE NATURAL ANGLE OF REPOSE FOR THE SOIL, WHICHEVER IS GREATER.
 - WATER MAIN TO BE INSTALLED WITH 4'-6" MIN COVER.

PIPE TRENCH DETAIL

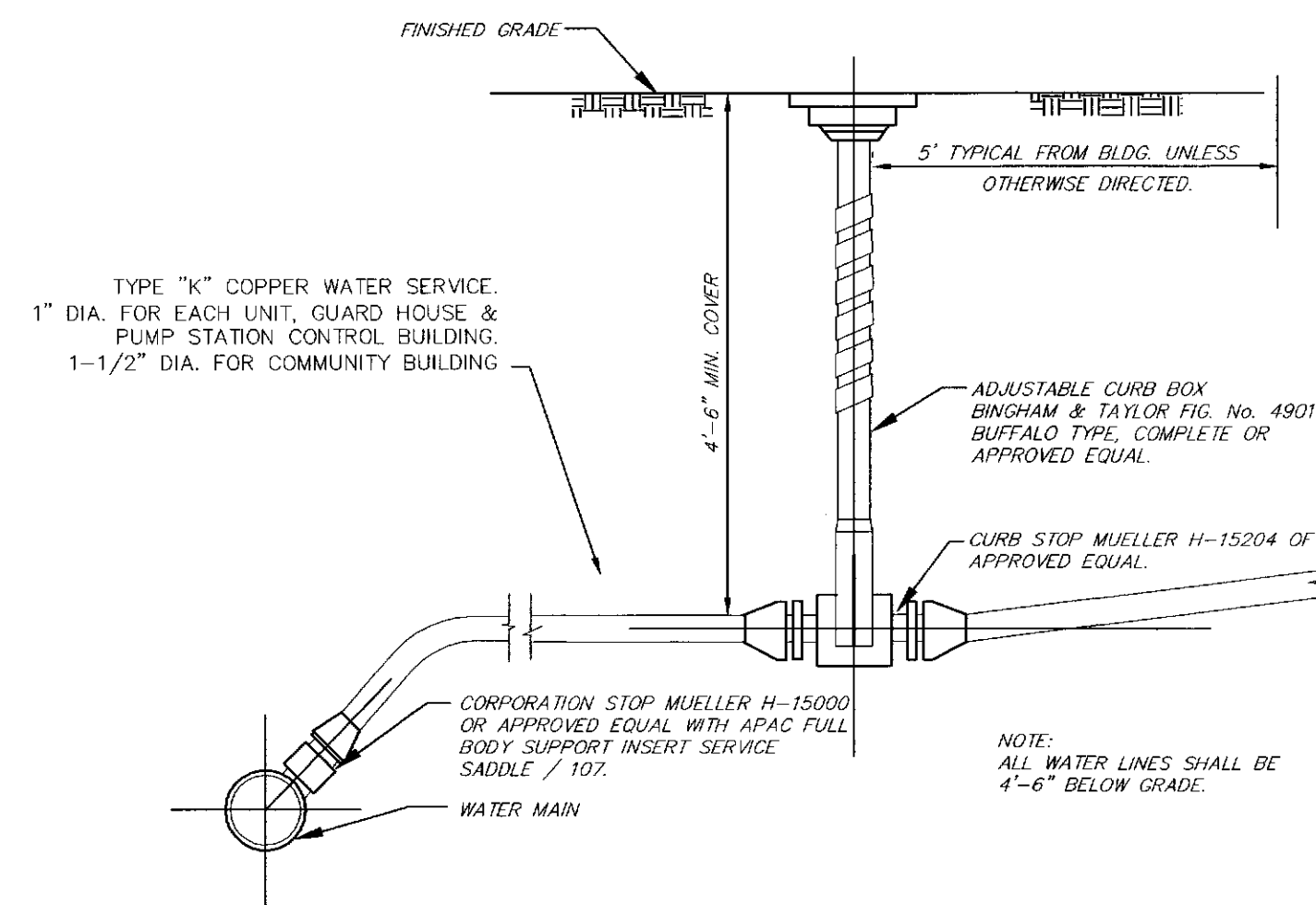


VALVE ANCHORAGE DETAIL



NOTE:
WHEN SEWER LINES CROSS ABOVE WATER LINES, THE SEWER LINES SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION FOR THE ENTIRE LENGTH, AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING. IN ADDITION, WATER LINE JOINTS SHALL BE AT LEAST TEN FEET FROM THE POINT OF CROSSING.

WATER/SEWER CROSSING DETAIL



WATER SERVICE DETAIL

1.0. GENERAL CONDITIONS

- All work is to be performed in accordance with the requirements of all Federal, State, County and all other municipal agencies having jurisdiction over the work. The Contractor shall obtain all permits necessary for the complete performance of work.
- The Contractor will guarantee all work for a period of one year from the date of the Owner's final written acceptance. During the one year period, the Contractor shall repair or replace, at his own cost and expense, all equipment supplied and all contract work performed and installed under the Contract that is found to be defective. All remedial work shall be performed to the satisfaction of the owner and all agencies having jurisdiction.
- Prior to excavation, the Contractor shall investigate to the extent necessary the presence of any underground utilities in the area of the proposed work. Any existing utilities encountered shall be protected with sheeting, bracing or other approved means. Any utility relocations required shall be coordinated by the Contractor with the utility owner.
- The Engineer and the Suffolk County Department of Health Services shall be notified at least 24 hours in advance of commencing work, admitting water to a new section, flushing or blowing off mains, or chlorination of newly installed mains.
- Suitable barriers and caution signs shall be placed and maintained around all excavation and parked equipment. Pedestrian and automobile traffic shall be maintained and protected in accordance with the applicable provisions of the N.Y.S. Manual of Uniform Traffic Control Devices.
- Any damage by the Contractor to adjacent curbs, sidewalks, lawn area, shrubs, etc., must be repaired or replaced by the Contractor at his own expense to the applicable Town, County and/or State specifications, as early as practical, to the satisfaction of the Owner.

2.0 SPECIAL CASTINGS

MATERIALS

- Gray iron or Ductile iron mechanical joint fittings will be utilized unless otherwise indicated on the drawings. Ductile iron fittings shall have the letters "DI" or "DUCTILE" cast on them.
- Fittings with mechanical joint flanges shall conform to the dimensions, weights, tolerances, etc., for gray iron and/or ductile iron in A.N.S.I./A.W.W.A. Specifications C1110-77 or latest revision.
- Gray iron fittings shall have a pressure rating of 250 p.s.i. up to and including 12 inch diameter and 150 p.s.i. for greater than 12 inch diameter. Ductile iron fittings shall have a pressure rating of 350 p.s.i. up to and including 24 inch diameter.
- Fittings shall have directly cast upon them the manufacturer's identification, pressure rating, nominal diameter of openings, and the number of degrees or fraction of the circle on all bends.
- Mechanical joint fittings shall be used with "push-on" joint pipe with the joint conforming to A.N.S.I. Specification A21.11-1979 or latest revision or A.W.W.A. Specification C111-79 or latest revision.
- All fittings shall be cement-lined in accordance with A.W.W.A. Specification C104-74 or latest revision, or A.N.S.I. Specification A21.4-1974 or latest revision.

INSTALLATION

- The joint deflection for mechanical joints shall not exceed 5 degrees (either 19 inch offset for an 18 foot length of pipe or 21 inch offset for a 20 foot length of pipe) for sizes 6 inch through 12 inch diameter. Assembled joints should not be deflected.
- Concrete blocking shall be applied on all pipe lines 4 inch in diameter or larger at all tees, plugs, caps and at bends deflecting 22 1/2 degrees or more. Blocking shall be of concrete of a mix having a compressive strength of not less than 2,000 p.s.i. Blocking shall be placed between solid ground and the fitting to be anchored, as shown on the plans.

3.0 GATE VALVES

- All vertical gate valves up to and including 12 inch diameter shall conform to A.W.W.A. Specifications C509 or latest revision. Gate valves shall be iron body, bronze-mounted, 200 p.s.i. minimum working pressure, non-rising stem.
- Gate valves shall include mechanical joint ends complete with all joint accessories including gaskets.
- Markings shall be cast on the bonnet or body of each valve, and shall show the manufacturer's name or mark, the year the valve casting was made, the size of the valve, and the designation of working water pressure.
- Valve boxes shall be three-piece cast iron, 5-1/4" shaft, sliding type, with cast iron covers with "WATER" cast on the covers.

4.0 HYDRANTS

- All hydrants shall conform to A.W.W.A. Specification C502-73 or latest revision for Dry Barrel Fire Hydrants.
- All hydrants shall have permanent markings identifying the manufacturer, and designating the size of the main valve opening and the year of manufacture. Markings shall be placed so as to be readily discernible and legible after hydrants have been installed.
- A positive operating drain valve shall be included to drain the hydrant properly by opening as soon as the main valve is closed. The drain valve shall close when the main valve is open.
- Hydrants shall be provided with a 6" inlet with mechanical joint end complete with all joint accessories including gaskets, and two 2 1/2" outlets with N.Y. Corp. threads.
- A primer and second coat of paint shall be applied to each hydrant top section. The barrel shall be yellow with aluminum tops and caps.

5.0 PVC WATER MAIN

MATERIALS

- All pipe shall meet the requirements of A.W.W.A. C900-81 or latest revision "Polyvinyl Chloride (PVC) Pressure Pipe". Class 150 pipe shall conform to the Dimension Ratio (DR) of 18 for PVC pipe with cast iron pipe equivalent outside diameters. PVC pipe and couplings shall be made from Class 12454-A or Class 12454-B virgin compounds, as defined in ASTM D1784.
- All polyvinyl chloride (PVC) pipe shall be Blue Brute, as manufactured by J-M Manufacturing Company, Inc., or approved equal.
- Pipe and couplings shall bear identification markings that will remain legible during normal handling, storage and installation, which have been applied in a manner that will not reduce the strength of the pipe or coupling otherwise damage them.
- "Push-on" joint shall be used unless otherwise indicated in these specifications. Joints shall conform to A.N.S.I. Specification A21.11-80 or latest revision, or A.W.W.A. Specification C111-80 or latest revision.
- Gaskets and lubricants intended for use with PVC pipe and couplings shall be made from materials compatible with the plastic material, but such that they will not support the growth of bacteria and will not adversely affect the potable qualities of the water that is to be transported. Elastomeric gaskets shall be manufactured to conform with the requirements of A.S.T.M. F477.

INSTALLATION

- Water mains shall be laid to the lines and grades established by the plans and specifications unless directed otherwise by the Owner or his representative. Trenches shall be excavated to the required alignment, depth and width and in conformance with all Federal, State and local regulations.
- When the subgrade is found to be unstable or to include ashes, cinders, refuse, organic material, or other unsuitable material, such material shall be removed to a minimum of (6) inches, or to the depth ordered by the engineer, and replaced under the direction of the engineer with clean, stable granular backfill material.
- The Contractor shall be required to use approved means to keep water out of the trenches while pipe is being laid and away from the joints until they have set.
- Backfilling shall be accomplished with materials approved by the engineer in accordance with the plans. All backfill material shall be free from cinders, ash, refuse, vegetable or organic material, boulders, rocks or stones 1-1/2 inches or larger in size, frozen soil, or other material that, in the opinion of the engineer, is unsuitable. Backfill and compaction of pipe trenches shall be in accordance with the details on the plans.

CHLORINATION, FLUSHING AND BACTERIOLOGICAL TESTING

- Chlorination shall be in accordance with A.W.W.A. Specification C651-86 or latest revision. The amount shall be 50 mg/l at all times.
- Water mains shall be blown off at a flushing velocity of not less than 2.5 feet per second until all mud and stones are removed from the main and the chlorine residual is either reduced to zero or not higher than the chlorine residual generally prevailing in the system.
- One bacteriological sample will be required for each 1,000 linear feet of water main and for each dead end. If positive samples are obtained in any area, more detailed sampling will be required. After each section of main has been blown off, samples of water shall be taken from the approved sampling points by the lab personnel from a New York State Approved Laboratory. The costs for the bacteriological tests shall be paid for by the Contractor.
- No sections of new main shall be opened to the distribution system until negative bacteriological tests are obtained by a New York State Approved Laboratory (with a certificate that the samples were taken by laboratory personnel) and approval is granted by the engineer and the Suffolk County Department of Health Services.

PRESSURE AND LEAKAGE TESTS

- A pressure test shall be conducted on all mains in accordance with A.W.W.A. Specifications C800-82, or latest revision. Under the pressure test, the hydrostatic pressure shall be set at least 50 percent above the normal operating pressure, but in no case less than 100 p.s.i., elevation of the test gauge. Pressure shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Owner.
- A leakage test shall be conducted on all mains in valved sections in accordance with A.W.W.A. Specification C-600-82 or latest revision, either concurrently or immediately after the pressure test has been satisfactorily completed. Under the leakage test, the hydrostatic pressure shall be set at least 50 percent above normal operating pressure, but in no case less than 100 p.s.i. for the particular location, and the duration of the test shall be at least two hours. No pipe installation will be accepted until leakage is less than the number of gallons per hour, as determined by the formula:

$$L = \frac{(S)(D)}{133,200} \times P$$

L: allowable leakage in gallons per hour;
S: length of pipeline in feet;
D: nominal diameter of the pipe in inches; and
P: average test pressure during the leakage test, in pounds per square inch gauge.

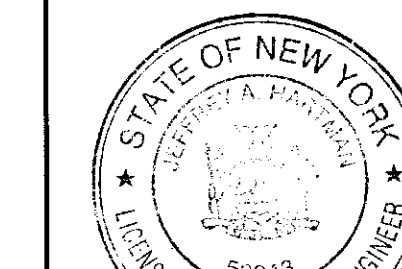
RESUBMISSION	5/15/17	
RESUBMISSION	7/15/16	
REVISED CONTRACT NUMBER	7/15/16	
No.	REVISION	DATE

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ATTENTION: BRUCE GRANT
100 MAIN STREET
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COLUMBIA TERRACE CONDOMINIUMS**
SITUATED AT
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DISTRICT 400 SECTION 140 BLOCK 3 LOTS 72,73,108,109,3,117

DETAILS-5
CONTRACT No. 2017-100



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