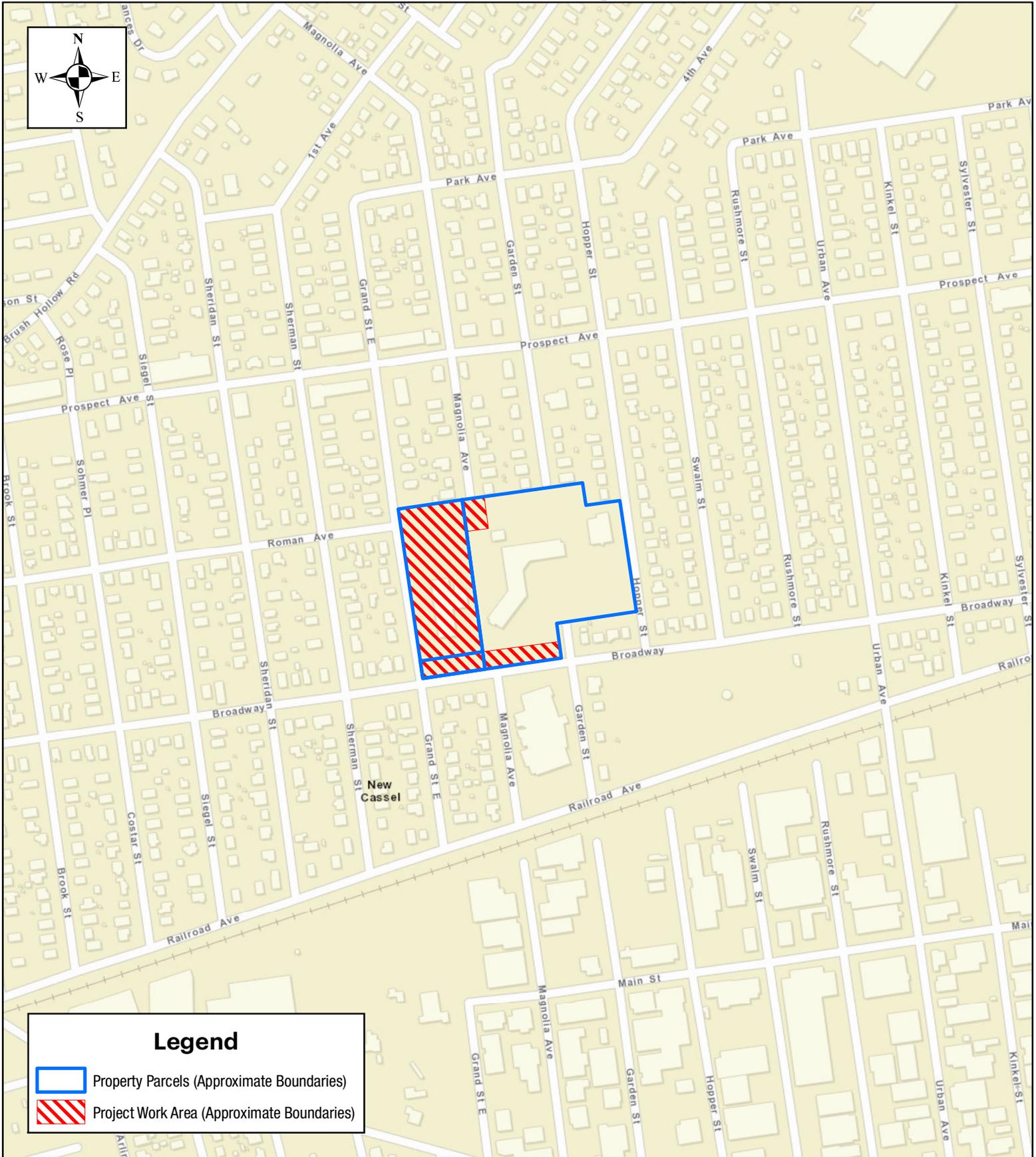


Attachment 1

Project Location Maps

Street Map
Topographic Map
Aerial Photograph

Street Map



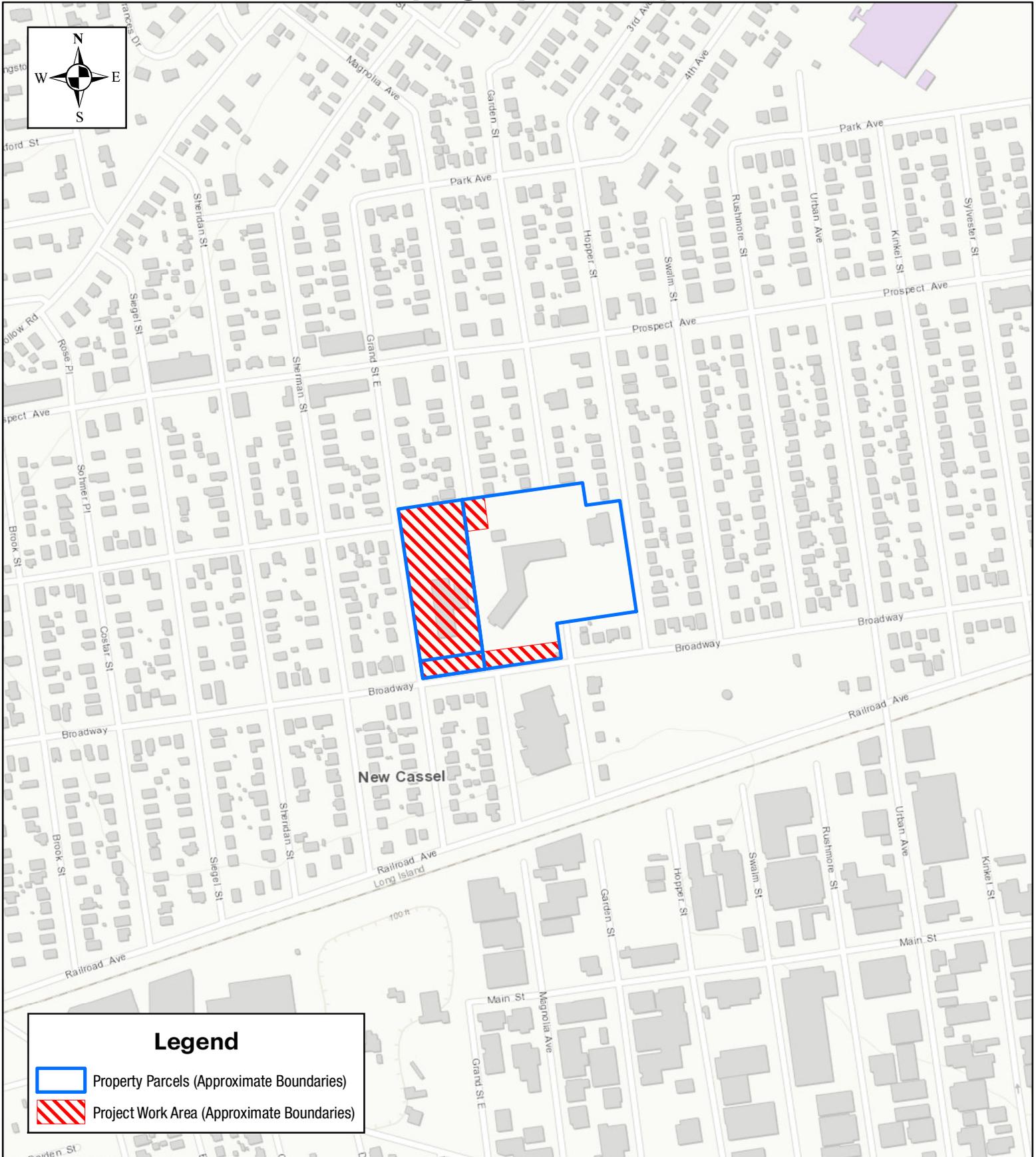
Legend

-  Property Parcels (Approximate Boundaries)
-  Project Work Area (Approximate Boundaries)



Grand Street Apartments Project
252 Grand Street & 899 Broadway
Hamlet of New Cassel
Town of North Hempstead
Nassau County, New York 11590

Topographic Map



Aerial Map



Legend

-  Property Parcels (Approximate Boundaries)
-  Project Work Area (Approximate Boundaries)



Attachment 2

Project Design Plans

Grand Street Apartments – Residences, Community Room, &
Site Improvements



GRAND STREET APARTMENTS- RESIDENCES, COMMUNITY ROOM, & SITE IMPROVEMENTS NORTH HEMPSTEAD HOUSING AUTHORITY 252 GRAND STREET WESTBURY, NEW YORK 11590



DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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GEN. CONTRACTOR

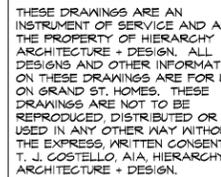
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SIMPLEX HOMES
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GRAND STREET
HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

COVER SHEET

AS NOTED	CS-1
T.J.C.	
P.S.M.	
T.J.C.	

LIST OF DRAWINGS

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GENERAL NOTES

TOWN OF NORTH HEMPSTEAD
210 PLANDOME ROAD MANHASSET, N.Y. 11030
BUSINESS PHONE: (516) 869-7660
1. WORK PERFORMED: MON. - SAT. 8:00AM - 6:00PM, ONLY. NO WORK SUNDAYS OR HOLIDAYS.

2. NO WORK TO BE STARTED UNTIL INSURANCE COMPENSATION IS FILED WITH TOWN.

3. FINAL SURVEY TO BE SUBMITTED AT COMPLETION OF JOB.

4. ELECTRICAL UNDERWRITERS CERTIFICATE MUST BE SUBMITTED AT COMPLETION OF JOB.

6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTIONS.

7. ALL WRITTEN DIMENSIONS SUPERSEDE SCALED DIMENSIONS ALL V.I.F. AND ALIGN NOTES SUPERSEDE WRITTEN DIMENSIONS.

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEW YORK STATE UNIFORM FIRE PREVENTION CODE, 2010 NYS BUILDING CODE OF NEW YORK STATE, THE 2010 EXISTING BUILDING CODE OF NEW YORK STATE AND WITH ALL STATE AND LOCAL STANDARDS AND ORDINANCES.

9. CONTRACTOR AND SUBCONTRACTORS SHALL BE LICENSED, INSURED AND APPROVED BY OWNER. OWNER AND ARCHITECT SHALL BE ADDITIONALLY NAMED ON ALL INSURANCE POLICIES.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD AND FOR MEETING ALL EXISTING CONDITIONS IN THE BUILDING.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAMPLES TO THE OWNER AND ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.

12. NO SPECIFIED MATERIALS MAY BE SUBSTITUTED WITHOUT APPROVAL FROM ARCHITECT AND OWNER.

13. ALL SHOP DRAWINGS, PRODUCT CUT SHEETS, SKETCHES AND SAMPLES SHALL BE SUBMITTED TO ARCHITECT AND OWNER FOR APPROVAL AND COMPLIANCE WITH DESIGN INTENT.

14. ALL EXISTING ELECTRICAL AND MECHANICAL LINES WHICH INTERFERE WITH NEW CONSTRUCTION SHALL BE BROUGHT TO ATTENTION OF OWNER AND RELOCATED OR REPLACED PER CODE BY CONTRACTOR.

15. CONTRACTOR SHALL SUPERVISE, ORGANIZE AND OTHERWISE COORDINATE THE WORK IN A MANNER TO LIMIT DISRUPTION TO TENANTS ON THE SITE. NHHA WILL PROVIDE A TENANT PHASING PLAN FOR THE WORK.

16. CONTRACTOR SHALL INFORM THE HOUSING AUTHORITY OF TENANT AND PUBLIC AREAS THAT WOULD BE DISRUPTED AT LEAST 48 HOURS PRIOR TO DISRUPTIONS, SO THAT THE OWNER MAY PROPERLY ADVISE AND INFORM TENANTS.

17. THE CONTRACTOR'S SUPERINTENDENT SHALL BE RESPONSIBLE FOR SCHEDULING ALL DAILY CONSTRUCTION OPERATIONS INCLUDING ALL RELATED TRADES, SUPPLIES, DELIVERY OF MATERIALS, SHOP DRAWING SUBMITTALS, ETC.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN ALL TRADES AND DELAYS RESULTING FROM LACK OF SUCH COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

19. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS OF WORK EXECUTED AS REQUIRED FOR FABRICATION AND INSTALLATION OF HIS WORK AND ASSUME COMPLETE RESPONSIBILITY FOR ACCURACY OF SUCH MEASUREMENTS.

20. MATERIALS FOR PATCHING SHALL MATCH EXISTING MATERIALS IN QUALITY, APPEARANCE AND STRENGTH. IT SHALL BE UNDERSTOOD THAT WORKMANSHIP IS TO BE PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS FOR QUALITY, APPEARANCE, STRENGTH, DURABILITY, WARRANTIES, AND APPLICABILITY.

21. ALL SURFACES AND FINISHES NEGLIGENTLY DAMAGED BY DEMOLITION AND ALTERATIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR HIS SUBCONTRACTOR FOR PATCHING AND REPAIRING.

22. CONTRACTOR TO OBSERVE REQUIREMENTS FOR FIRE SAFETY, SITE PROTECTION AND PROTECTION OF LOCAL ECOLOGY DURING CONSTRUCTION. MAINTAIN SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES.

23. JOB SITE SAFETY IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS. HIERARCHY IS NOT RESPONSIBLE FOR MATERIALS, MEANS, METHODS OR SEQUENCES OF OPERATIONS.

24. AT COMPLETION OF CONSTRUCTION REMOVE ALL TOOLS, SURPLUS MATERIALS, EQUIPMENT, SCRAP, DEBRIS AND WASTE. BROOM CLEAN PAVED AREAS AND PUBLIC AREAS.

25. PHASING PLAN CONFORM TO OWNER SCHEDULE FOR TENANT PARKING AND DAILY USE OF ACCESS TO APARTMENTS.

26. STAGING AREAS TO BE DETERMINED BY GC IN DIRECT CONSULTATION WITH OWNER TO MANAGE CONSTRUCTION SCHEDULE.

COMMUNITY ROOM

1. THE EXISTING CCTV SYSTEM IS TO REMAIN AND BE PROTECTED DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL ADVISE NHHA IF CONSTRUCTION WILL DISTURB THE PRESENT CAMERAS AND WIRING. CONTRACTOR SHALL GIVE 48 HOURS NOTICE TO NHHA IF TEMPORARY DISCONNECTS ARE REQUIRED. CCTV SERVICE IS TO BE RESTORED AND INTEGRATED INTO THE ENLARGED COMMUNITY ROOM BUILDING. CONTRACTOR IS TO COORDINATE WITH NHHA AND THEIR SUBCONTRACTORS FOR THIS WORK.

2. A NEW FIRE PROTECTION ALARM AND DETECTION SYSTEM WILL BE INSTALLED AT THE COMMUNITY ROOM. THE SYSTEM WILL COVER THE FIRST FLOOR AND EXISTING MECHANICAL ROOM OF THE BUILDING.

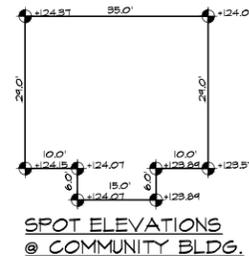
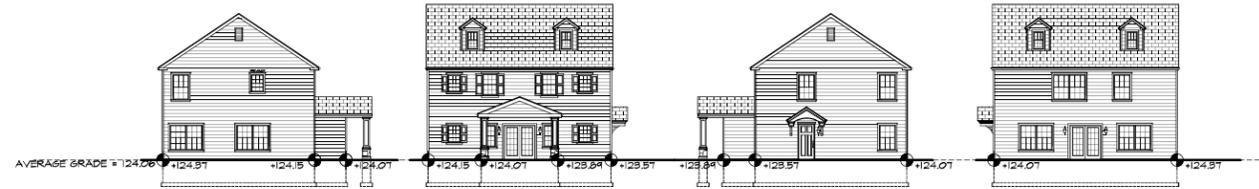
3. PROVIDE NEW HEATING AND CENTRAL AIR CONDITIONING SYSTEM TO THE COMMUNITY ROOM, OFFICE, H.C. TOILETS AND COAT ROOM.

4. PROVIDE SUNRAD HEATING AND AIR CONDITIONING TO LAUNDRY ROOM.

5. PROVIDE RADIANT HEATING TO ALL HANDICAPPED RAMPS.

6. PROVIDE ALL MISCELLANEOUS STEEL AND LINTELS PER STRUCTURAL DRAWINGS.

7. COORDINATE REQUIRED OPENINGS FOR ELECTRICAL, PLUMBING AND HVAC WITH DRAWINGS AND MEP AND STRUCTURAL ENGINEERS.

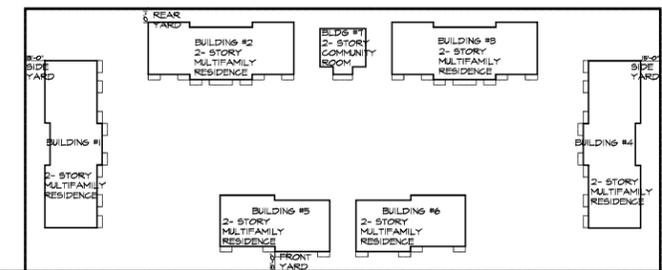


AVERAGE MEAN GRADE

GRAND STREET, WESTBURY - GRAND STREET COMMUNITY ROOM

EAST ELEV.	124.2 + 124.1 = 248.22	div 2 = 124.1	x 10.00 = 1241.10
EAST/NORTH	124.1 + 124.1 = 248.14	div 2 = 124.1	x 6.00 = 744.42
EAST ELEV.	124.1 + 123.9 = 247.96	div 2 = 124	x 15.00 = 1859.70
EAST ELEV.	123.9 + 123.9 = 247.78	div 2 = 123.9	x 6.00 = 743.34
EAST/NORTH	123.9 + 123.6 = 247.46	div 2 = 123.7	x 10.00 = 1237.30
EAST ELEV.	123.6 + 124.1 = 247.64	div 2 = 123.8	x 29.00 = 3590.78
NORTH ELEV.	124.1 + 124.4 = 248.44	div 2 = 124.2	x 35.00 = 4347.70
WEST ELEV.	124.4 + 124.2 = 248.52	div 2 = 124.3	x 29.00 = 3603.54
TOTAL			140.00 17367.88

AVERAGE MEAN GRADE 17367.88 div 140.00 = 124.06



LOT AREA = 97,200 SQ. FT.
ZONING DIAGRAM
GRAND STREET

BUILDING NUMBER/NAME	BUILDING FOOTPRINT	OPEN PORCHES	TOTAL LOT COVERAGE	GROSS FLOOR AREA
BUILDING #1 PROPOSED	126.0' X 40.0' = 5,040 SQ. FT.	0 @ 28 SQ. FT. 224 SQ. FT.	5,264 SQ. FT.	5,040 x 2 = 10,080 SQ. FT.
BUILDING #2 PROPOSED	110.25' X 40.0' = 4,410 SQ. FT.	1 @ 54 SQ. FT. 6 @ 28 SQ. FT. 222 SQ. FT.	4,632 SQ. FT.	4,410 x 2 = 8,820 SQ. FT.
BUILDING #3 PROPOSED	110.25' X 40.0' = 4,410 SQ. FT.	1 @ 54 SQ. FT. 6 @ 28 SQ. FT. 222 SQ. FT.	4,632 SQ. FT.	4,410 x 2 = 8,820 SQ. FT.
BUILDING #4 PROPOSED	126.0' X 40.0' = 5,040 SQ. FT.	0 @ 28 SQ. FT. 224 SQ. FT.	5,264 SQ. FT.	5,040 x 2 = 10,080 SQ. FT.
BUILDING #5 PROPOSED	89.54' X 39.0' = 3,258.1 SQ. FT.	4 @ 28 SQ. FT. 112 SQ. FT.	3,370.1 SQ. FT.	3,258.1 x 2 = 6,516.2 SQ. FT.
BUILDING #6 PROPOSED	89.54' X 39.0' = 3,258.1 SQ. FT.	4 @ 28 SQ. FT. 112 SQ. FT.	3,370.1 SQ. FT.	3,258.1 x 2 = 6,516.2 SQ. FT.
BUILDING #7 PROPOSED	35.0' X 24.0' = 1,015 SQ. FT. 15.0' X 6.0' = 90 SQ. FT. 1,105 SQ. FT.	1 @ 45 SQ. FT. 45 SQ. FT.	1,150 SQ. FT.	1,105 + 1015 = 2,120 SQ. FT.
TOTAL			27,682.2 SQ. FT.	52,452.4 SQ. FT.

LOT AREA = 97,200 SQ. FT.
LOT COVERAGE = 27,682.2/97,200 SQ. FT. OR 28.5% < 35% PERMITTED

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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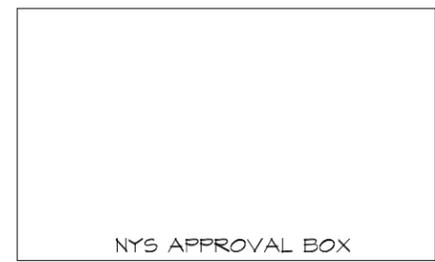


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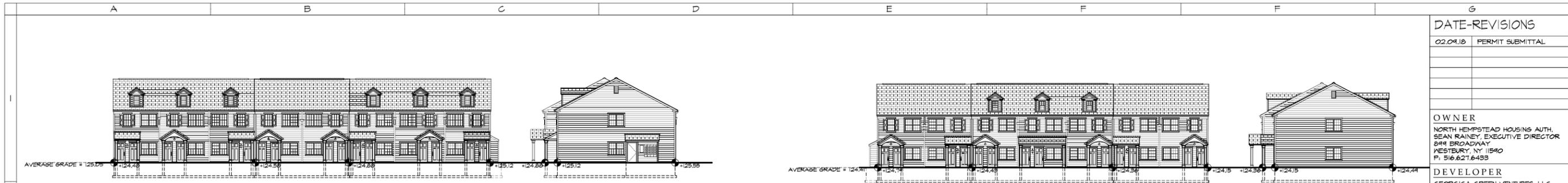
GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

GENERAL NOTES
ZONING DATA

AS NOTED
T.J.C.
K.S.M.
T.J.C.



T-2



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 GRAND STREET, WESTBURY, NY 11590

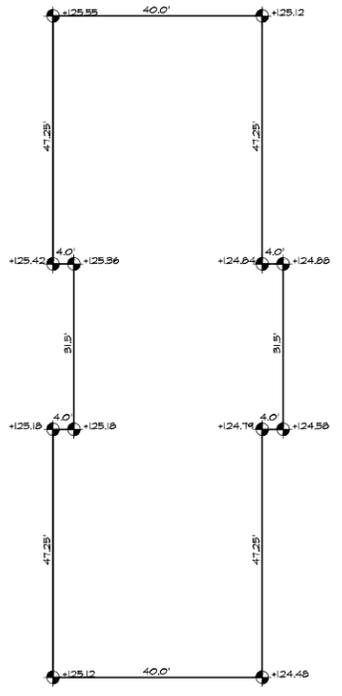
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T.J.C.	
P.S.M.	
T.J.C.	

AVERAGE MEAN GRADE

GRAND STREET, WESTBURY - GRAND STREET BUILDING #1

EAST ELEV.	124.5 + 124.8 = 249.27	div 2 = 124.6	x 47.25 = 5889.00
EAST/NORTH	124.8 + 124.6 = 249.37	div 2 = 124.7	x 4.00 = 498.74
EAST ELEV.	124.6 + 124.9 = 249.46	div 2 = 124.7	x 31.50 = 3929.00
EAST ELEV.	124.9 + 124.8 = 249.72	div 2 = 124.9	x 4.00 = 499.44
EAST/NORTH	124.8 + 125.1 = 249.96	div 2 = 125	x 47.25 = 5905.31
EAST ELEV.	125.1 + 125.6 = 250.67	div 2 = 125.3	x 40.00 = 5013.40
NORTH ELEV.	125.6 + 125.4 = 250.97	div 2 = 125.5	x 47.25 = 5929.17
WEST ELEV.	125.4 + 125.4 = 250.78	div 2 = 125.4	x 4.00 = 501.56
SOUTH	125.4 + 125.2 = 250.54	div 2 = 125.3	x 31.50 = 3946.01
NORTH ELEV.	125.2 + 125.2 = 250.36	div 2 = 125.2	x 4.00 = 500.72
WEST ELEV.	125.2 + 125.1 = 250.3	div 2 = 125.2	x 47.25 = 5913.34
SOUTH	125.1 + 124.5 = 249.6	div 2 = 124.8	x 40.00 = 4992.00
TOTAL		348.00	43517.67

AVERAGE MEAN GRADE 43517.67 div 348.00 = **125.05**



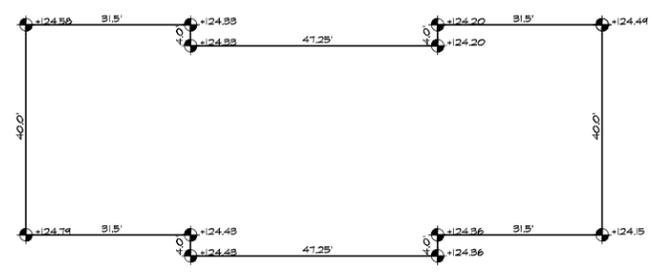
SPOT ELEVATIONS @ BUILDING #1

AVERAGE MEAN GRADE

GRAND STREET, WESTBURY - GRAND STREET BUILDING #2

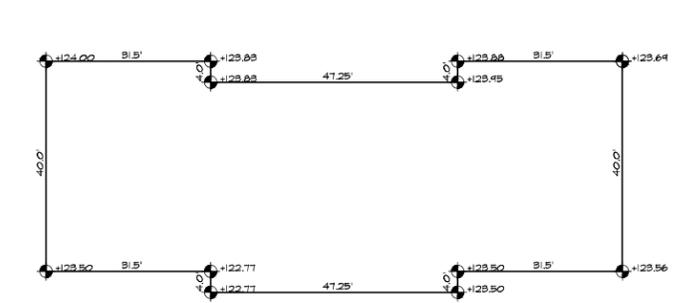
EAST ELEV.	124.8 + 124.4 = 249.22	div 2 = 124.6	x 31.50 = 3925.22
EAST/NORTH	124.4 + 124.4 = 248.86	div 2 = 124.4	x 4.00 = 497.72
EAST ELEV.	124.4 + 124.4 = 248.79	div 2 = 124.4	x 47.25 = 5877.66
EAST ELEV.	124.4 + 124.4 = 248.72	div 2 = 124.4	x 4.00 = 497.44
EAST/NORTH	124.4 + 124.2 = 248.51	div 2 = 124.3	x 31.50 = 3914.03
EAST ELEV.	124.2 + 124.5 = 248.64	div 2 = 124.3	x 40.00 = 4972.80
NORTH ELEV.	124.5 + 124.2 = 248.69	div 2 = 124.3	x 31.50 = 3916.87
WEST ELEV.	124.2 + 124.2 = 248.4	div 2 = 124.2	x 4.00 = 496.80
SOUTH	124.2 + 124.3 = 248.53	div 2 = 124.3	x 47.25 = 5871.52
NORTH ELEV.	124.3 + 124.3 = 248.66	div 2 = 124.3	x 4.00 = 497.32
WEST ELEV.	124.3 + 124.6 = 248.91	div 2 = 124.5	x 31.50 = 3920.33
SOUTH	124.6 + 124.8 = 249.37	div 2 = 124.7	x 40.00 = 4987.40
TOTAL		316.50	39375.11

AVERAGE MEAN GRADE 39375.11 div 316.50 = **124.41**



SPOT ELEVATIONS @ BUILDING #2



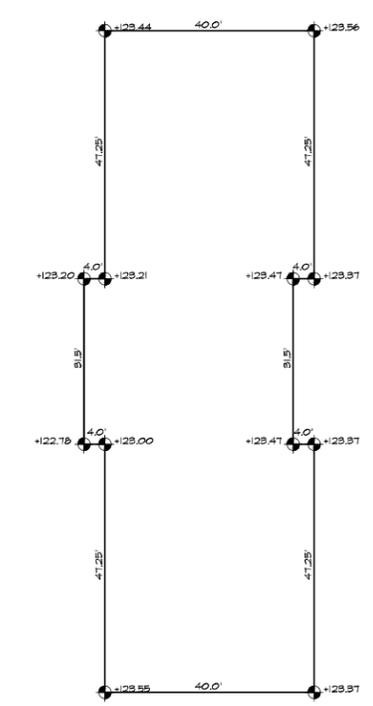


SPOT ELEVATIONS @ BUILDING #3

AVERAGE MEAN GRADE GRAND STREET, WESTBURY - GRAND STREET BUILDING #3

EAST ELEV.	123.5 + 122.8 =	246.27	div 2 =	123.1	x	31.50 =	3878.75
EAST/NORTH	122.8 + 122.8 =	245.54	div 2 =	122.8	x	4.00 =	491.08
EAST ELEV.	122.8 + 123.5 =	246.27	div 2 =	123.1	x	47.25 =	5818.13
EAST ELEV.	123.5 + 123.5 =	247	div 2 =	123.5	x	4.00 =	494.00
EAST/NORTH	123.5 + 123.6 =	247.06	div 2 =	123.5	x	31.50 =	3891.20
EAST ELEV.	123.6 + 123.7 =	247.25	div 2 =	123.6	x	40.00 =	4945.00
NORTH ELEV.	123.7 + 123.9 =	247.57	div 2 =	123.8	x	31.50 =	3899.23
WEST ELEV.	123.9 + 124 =	247.83	div 2 =	123.9	x	4.00 =	495.66
SOUTH	124 + 123.8 =	247.78	div 2 =	123.9	x	47.25 =	5853.80
NORTH ELEV.	123.8 + 123.8 =	247.66	div 2 =	123.8	x	4.00 =	495.32
WEST ELEV.	123.8 + 124 =	247.83	div 2 =	123.9	x	31.50 =	3903.32
SOUTH	124 + 123.5 =	247.5	div 2 =	123.8	x	40.00 =	4950.00
TOTAL				316.50			39115.49

AVERAGE MEAN GRADE 39115.49 ÷ 316.50 = **123.59**



SPOT ELEVATIONS @ BUILDING #4

AVERAGE MEAN GRADE GRAND STREET, WESTBURY - GRAND STREET BUILDING #4

EAST ELEV.	123.4 + 123.4 =	246.74	div 2 =	123.4	x	47.25 =	5829.23
EAST/NORTH	123.4 + 123.5 =	246.84	div 2 =	123.4	x	4.00 =	493.68
EAST ELEV.	123.5 + 123.5 =	246.94	div 2 =	123.5	x	31.50 =	3889.31
EAST ELEV.	123.5 + 123.4 =	246.84	div 2 =	123.4	x	4.00 =	493.68
EAST/NORTH	123.4 + 123.6 =	246.93	div 2 =	123.5	x	47.25 =	5833.72
EAST ELEV.	123.6 + 123.4 =	247	div 2 =	123.5	x	40.00 =	4940.00
NORTH ELEV.	123.4 + 123.2 =	246.65	div 2 =	123.3	x	47.25 =	5827.11
WEST ELEV.	123.2 + 123.2 =	246.41	div 2 =	123.2	x	4.00 =	492.82
SOUTH	123.2 + 122.8 =	245.98	div 2 =	123	x	31.50 =	3874.19
NORTH ELEV.	122.8 + 123 =	245.78	div 2 =	122.9	x	4.00 =	491.56
WEST ELEV.	123 + 123.6 =	246.55	div 2 =	123.3	x	47.25 =	5824.74
SOUTH	123.6 + 123.4 =	246.92	div 2 =	123.5	x	40.00 =	4938.40
TOTAL						348.00	42928.43

AVERAGE MEAN GRADE 42928.43 ÷ 348.00 = **123.36**

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL
----------	------------------

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AVERAGE MEAN GRADE

NYS APPROVAL BOX

AS NOTED
T.J.C.
K.S.M.
T.J.C.

T-2.2

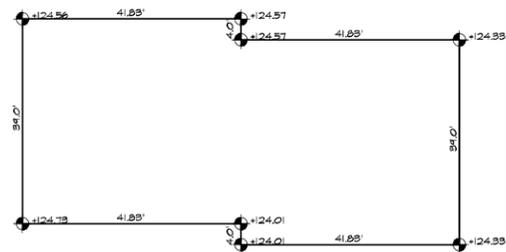


AVERAGE MEAN GRADE

GRAND STREET, WESTBURY - GRAND STREET BUILDING #5

EAST ELEV.	124.6 + 124.6 =	249.13	div 2 =	124.6 x	41.83 =	5210.55
EAST/NORTH	124.6 + 124.6 =	249.14	div 2 =	124.6 x	4.00 =	498.28
EAST ELEV.	124.6 + 124.3 =	248.9	div 2 =	124.5 x	41.83 =	5205.74
EAST ELEV.	124.3 + 124.3 =	248.66	div 2 =	124.3 x	39.00 =	4848.87
EAST/NORTH	124.3 + 124 =	248.34	div 2 =	124.2 x	41.83 =	5194.03
EAST ELEV.	124 + 124 =	248.02	div 2 =	124 x	4.00 =	496.04
NORTH ELEV.	124 + 124.7 =	248.74	div 2 =	124.4 x	41.83 =	5202.40
WEST ELEV.	124.7 + 124.6 =	249.29	div 2 =	124.6 x	39.00 =	4861.16
TOTAL				253.32		31517.07

AVERAGE MEAN GRADE 31517.07 div 253.32 = **124.42**



SPOT ELEVATIONS @ BUILDING #5

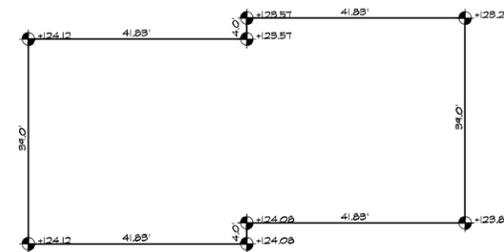


AVERAGE MEAN GRADE

GRAND STREET, WESTBURY - GRAND STREET BUILDING #6

EAST ELEV.	124.1 + 123.6 =	247.69	div 2 =	123.8 x	41.83 =	5180.44
EAST/NORTH	123.6 + 123.6 =	247.14	div 2 =	123.6 x	4.00 =	494.28
EAST ELEV.	123.6 + 123.2 =	246.78	div 2 =	123.4 x	41.83 =	5161.40
EAST ELEV.	123.2 + 123.8 =	247.05	div 2 =	123.5 x	39.00 =	4817.48
EAST/NORTH	123.8 + 124.1 =	247.92	div 2 =	124 x	41.83 =	5185.25
EAST ELEV.	124.1 + 124.1 =	248.16	div 2 =	124.1 x	4.00 =	496.32
NORTH ELEV.	124.1 + 124.1 =	248.2	div 2 =	124.1 x	41.83 =	5191.10
WEST ELEV.	124.1 + 124.1 =	248.24	div 2 =	124.1 x	39.00 =	4840.68
TOTAL				253.32		31366.94

AVERAGE MEAN GRADE 31366.94 div 253.32 = **123.82**



SPOT ELEVATIONS @ BUILDING #6



DATE-REVISIONS

DATE	REVISION
02.09.18	PERMIT SUBMITTAL

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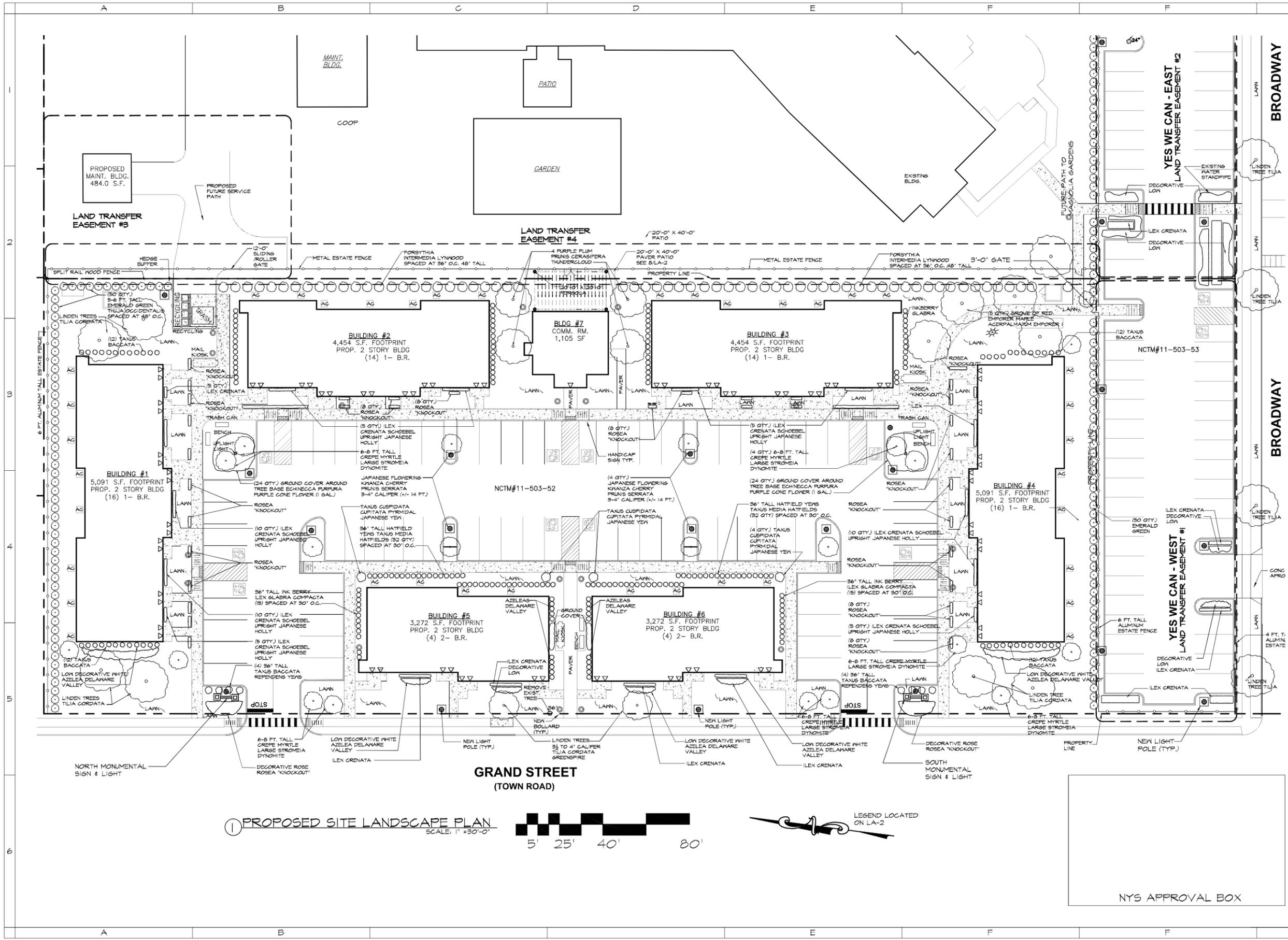


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GRAND STREET, WESTBURY, NY 11590

AVERAGE MEAN GRADE

AS NOTED	
T.J.C.	
K.S.M.	
T.J.C.	T-2.3



1 PROPOSED SITE LANDSCAPE PLAN
SCALE: 1" = 30'-0"



NYS APPROVAL BOX

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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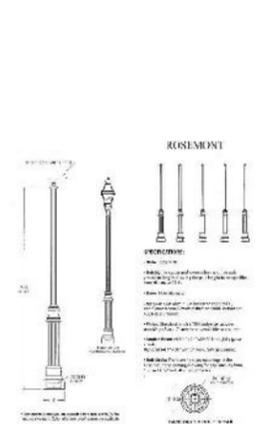
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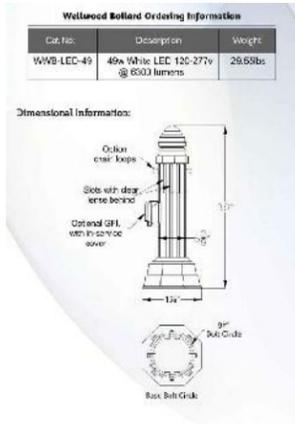
PROPOSED SITE LANDSCAPE PLAN

AS NOTED
T.J.C.
K.S.M.
T.J.C.

LA-1



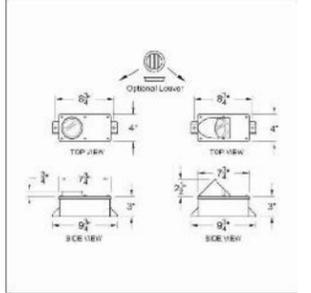
1 ROSEMONT POLE BY MAGNIFLOOD LIGHTING
ROSEMONT BASE 4 POLE, N.T.S.
PARKLITE 2 HEAD
12' POLE HEIGHT
SEE PLAN LA-1 FOR QUANTITIES &
LOCATIONS



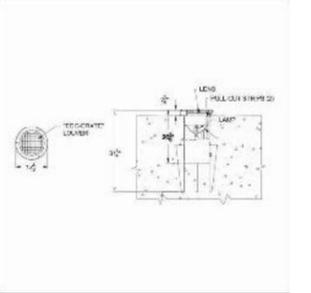
2 LED BOLLARD DETAIL N.T.S.



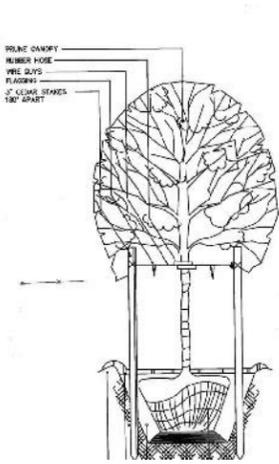
3 LANDSCAPE LIGHT BY MAGNIFLOOD N.T.S.



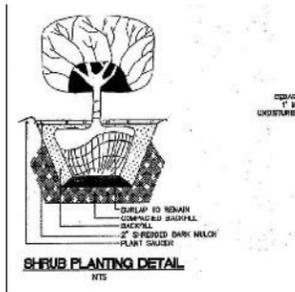
4 LANDSCAPE LIGHT DETAIL - MAGNIFLOOD MODEL #TALDNR-12 N.T.S.



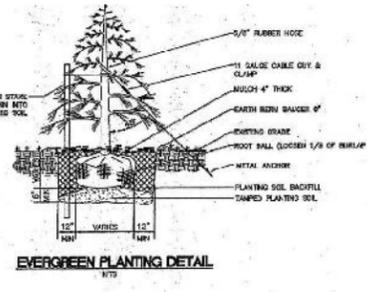
5 WELL LIGHT BY MAGNIFLOOD MODEL #MF-2042LED12 N.T.S.



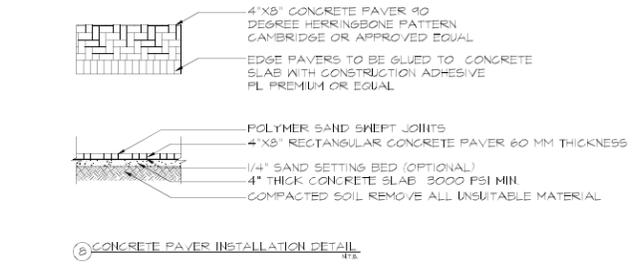
6 TREE PLANTING DETAIL N.T.S.



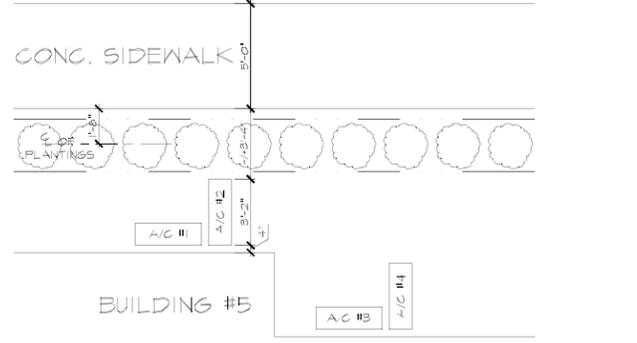
7 SHRUB/EVERGREEN PLANTING DETAIL N.T.S.



8 EVERGREEN PLANTING DETAIL N.T.S.



9 CONCRETE PAVER INSTALLATION DETAIL N.T.S.



10 PLANTING LOCATION BEHIND BUILDING #5 & #6 N.T.S.

LANDSCAPE MATERIAL LEGEND		
KEY	BOTANICAL NAME	COMMON NAME
TO	THUJA OCCIDENTALIS NIGRA	EMERALD GREEN ARBORVITAE
TB	TAXUS BACCATA REPENDENS	REPENDENS YEW
AZ	AZELEA DELAWARE VALLEY	DELAWARE VALLEY WHITE AZELEA
RK	ROSEA "KNOCKOUT"	KNOCK OUT ROSE
IS	ILEX GLABRA COMPACTA	INKBERRY
IC	ILEX GRENATA SCHNOEBEL	UPRIGHT JAPANESE HOLLY
TM	TAXUS MEDIA	HATFIELD
PK	PRUNIS SERRULATA	JAPANESE KWANZA CHERRY
APE	ACER PALMATUM EMPORER I	RED EMPORER MAPLE
F	FORSYTHIA	INTERMEDIATE LYNNWOOD
TC	TAXUS CUSPIDATA	JAPANESE YEW
LT	TILIA	LINDEN TREES
SD	STROMIA DYNAMITE	CREPE MYRTLE

LEGEND	
●	EXISTING LIGHT POLE
○	PROPOSED 12' LIGHT POLE
⊙	PROPOSED 3' BALLARD
○	PROPOSED UPLIGHT

- GENERAL NOTES**
- GRANITE TO BE 3/4" SIZED DESERT GOLD AT AN AVERAGE DEPTH OF 2"
 - LAWN TO BE MID IRON SOD (SEASONAL OVERSEED IF APPLICABLE).
 - 3/4" MULCH MIX TO BE USED IN ALL PLANT PITS.
 - PRE-EMERGENT HERBICIDE OVER ALL GRANITE AREAS.
 - ANNUAL BEDS TO BE MULCH TOP DRESSED.
 - IRRIGATION SYSTEM TO HAVE PROPERTY LINE TO PROPERTY LINE COVERAGE.
 - BOLLARDS TO BE INSTALLED 1/2" DIA. BELOW GROUND.
 - TREES TO BE DOUBLE STAKED.
 - MOUNDS TO BE INSTALLED USING MEASUREMENTS ON PLAN.
 - ALL PLANTS TO BE APPROVED BY ARCHITECT

NYS APPROVAL BOX

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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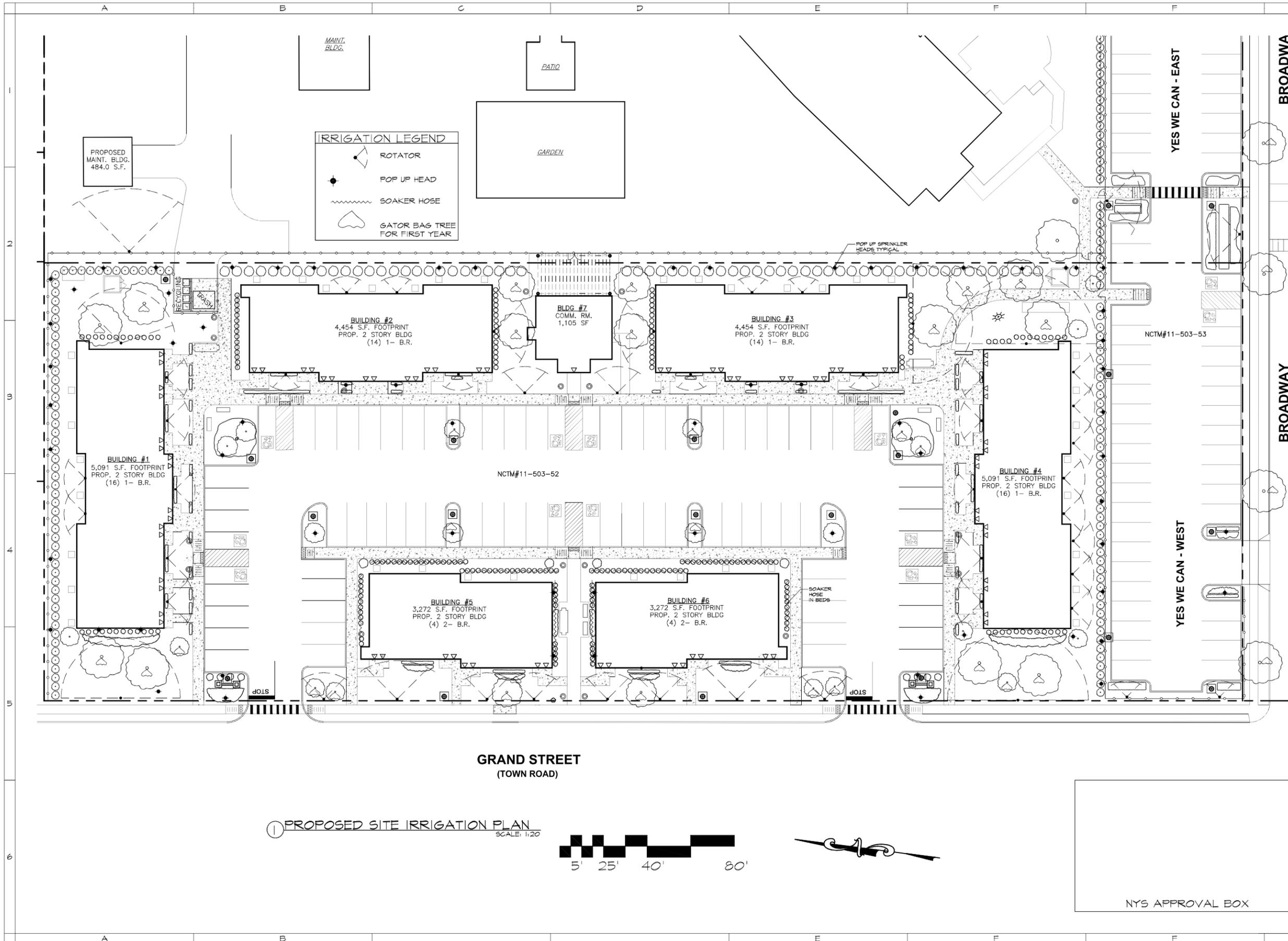
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LANDSCAPE
DETAILS & LEGEND

DESIGNED BY	AS NOTED
DRAWN BY	T.J.C.
CHECKED BY	R.S.M.
DATE	T.J.C.

LA-2



IRRIGATION LEGEND

- ROTATOR
- POP UP HEAD
- SOAKER HOSE
- GATOR BAG TREE FOR FIRST YEAR

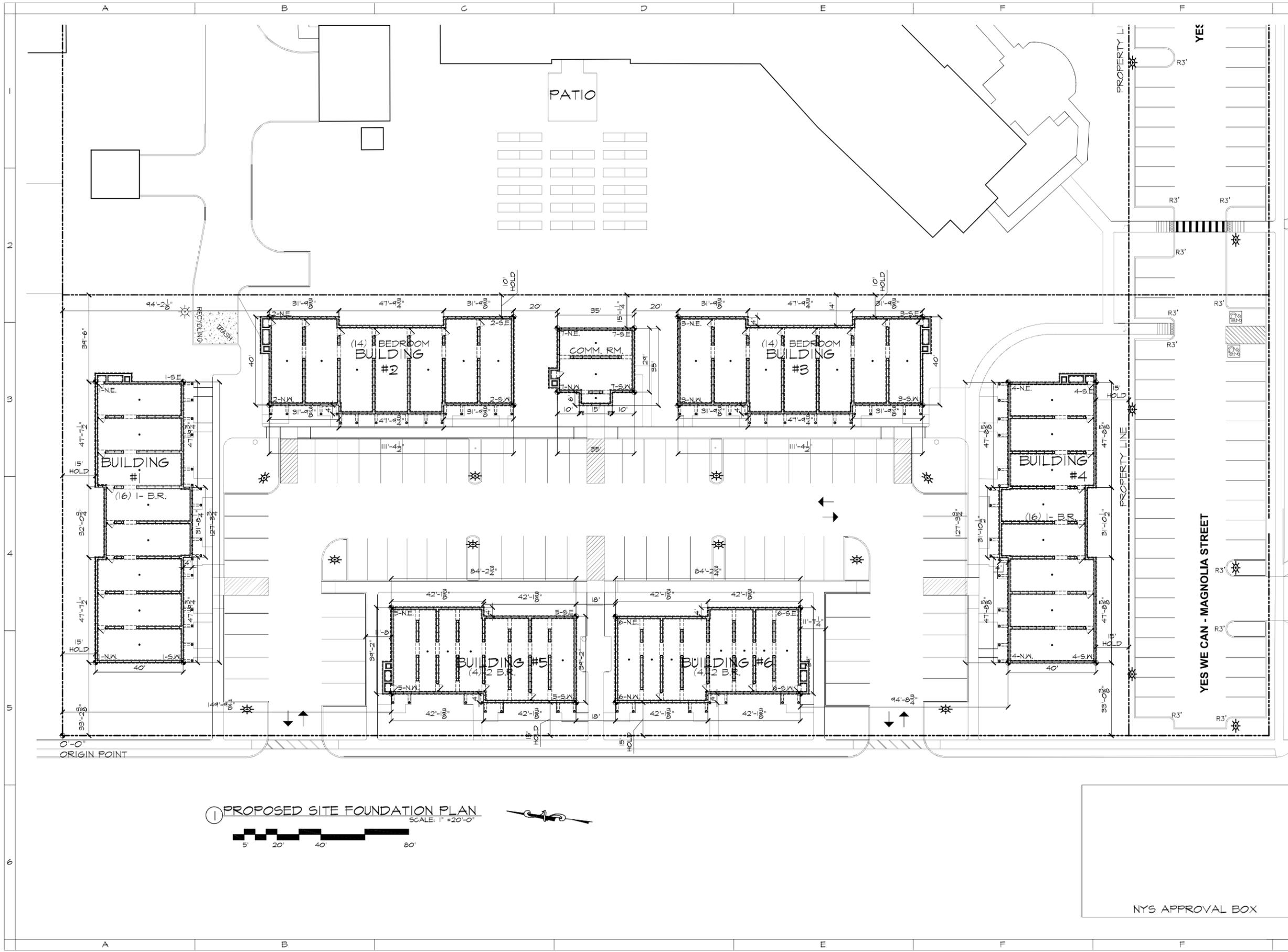
GRAND STREET
(TOWN ROAD)

① **PROPOSED SITE IRRIGATION PLAN**
SCALE: 1:20



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RESIDENCES & COMMUNITY ROOM GRAND STREET, WESTBURY, NY 11590	
PROPOSED SITE IRRIGATION PLAN	
<small>SCALE</small> AS NOTED T.J.C. K.S.M. T.J.C.	LA-3



① PROPOSED SITE FOUNDATION PLAN
SCALE: 1" = 20'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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NORTH HEMPSTEAD HOUSING AUTH.
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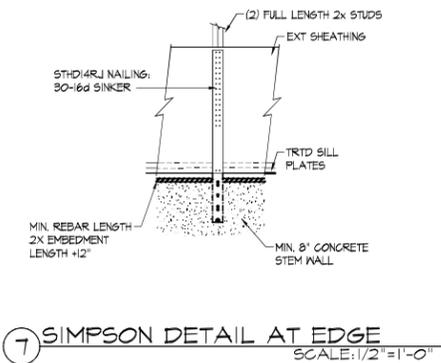
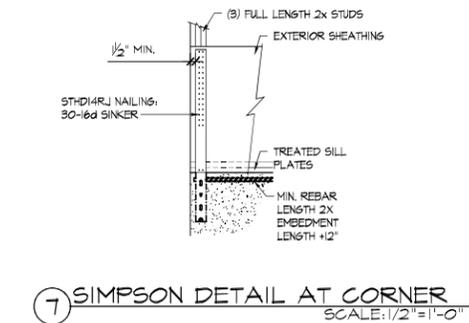
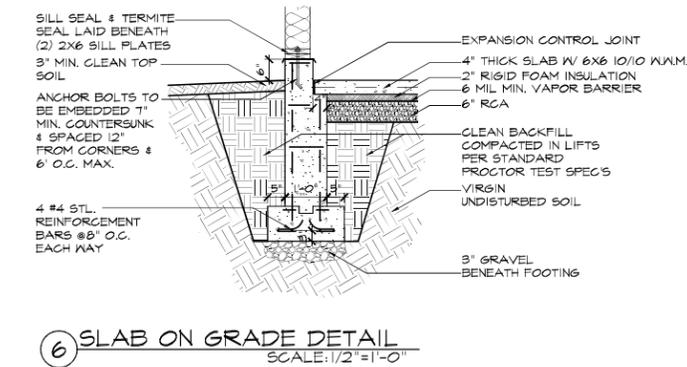
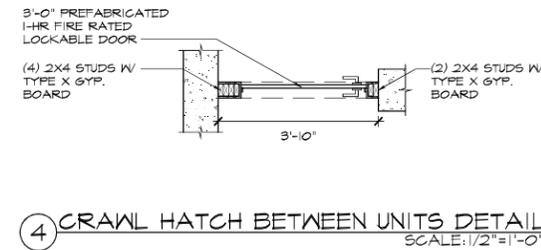
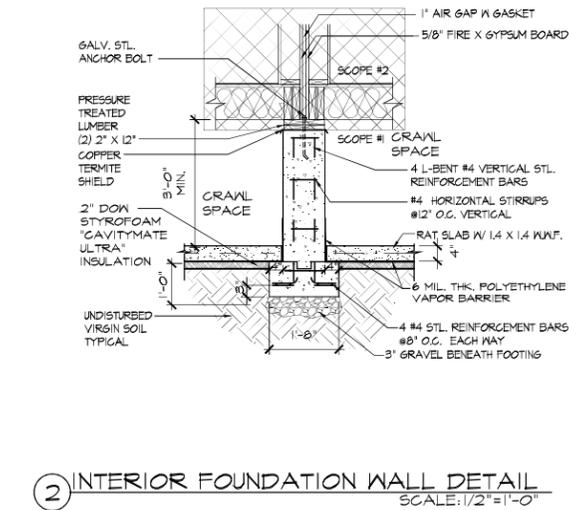
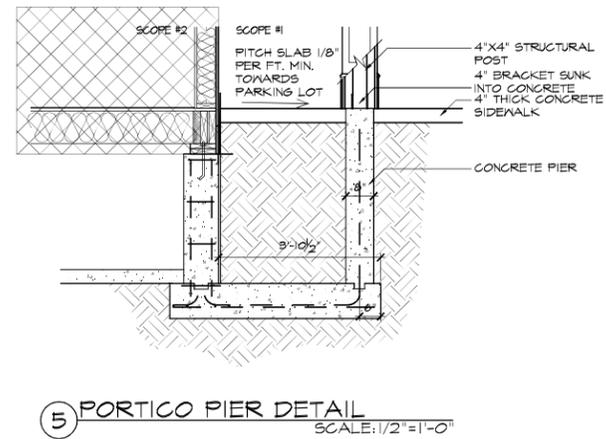
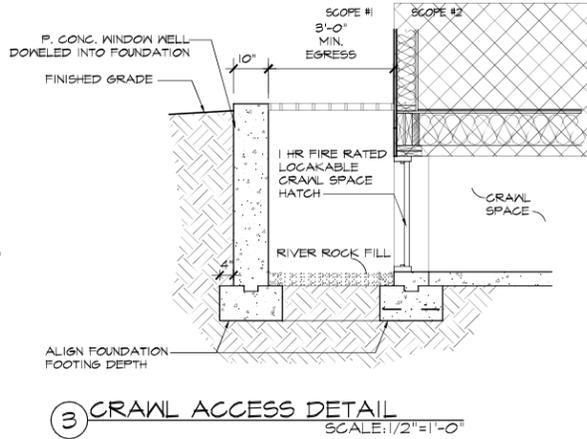
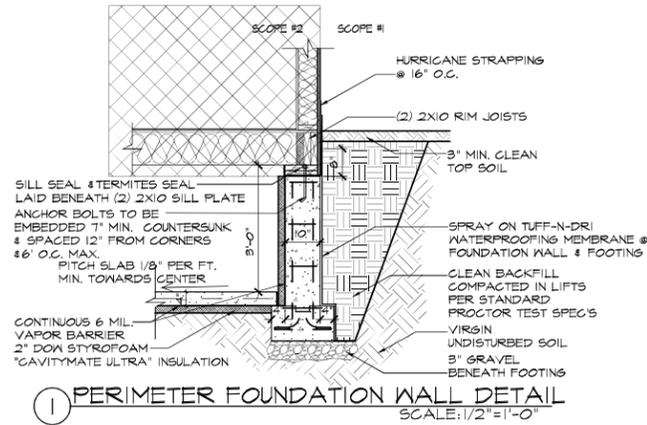
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GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

STRUCTURAL FOUNDATION ALIGNMENT PLAN

AS NOTED	S-01
T.J.C.	
P.S.M.	
T.J.C.	

NYS APPROVAL BOX



DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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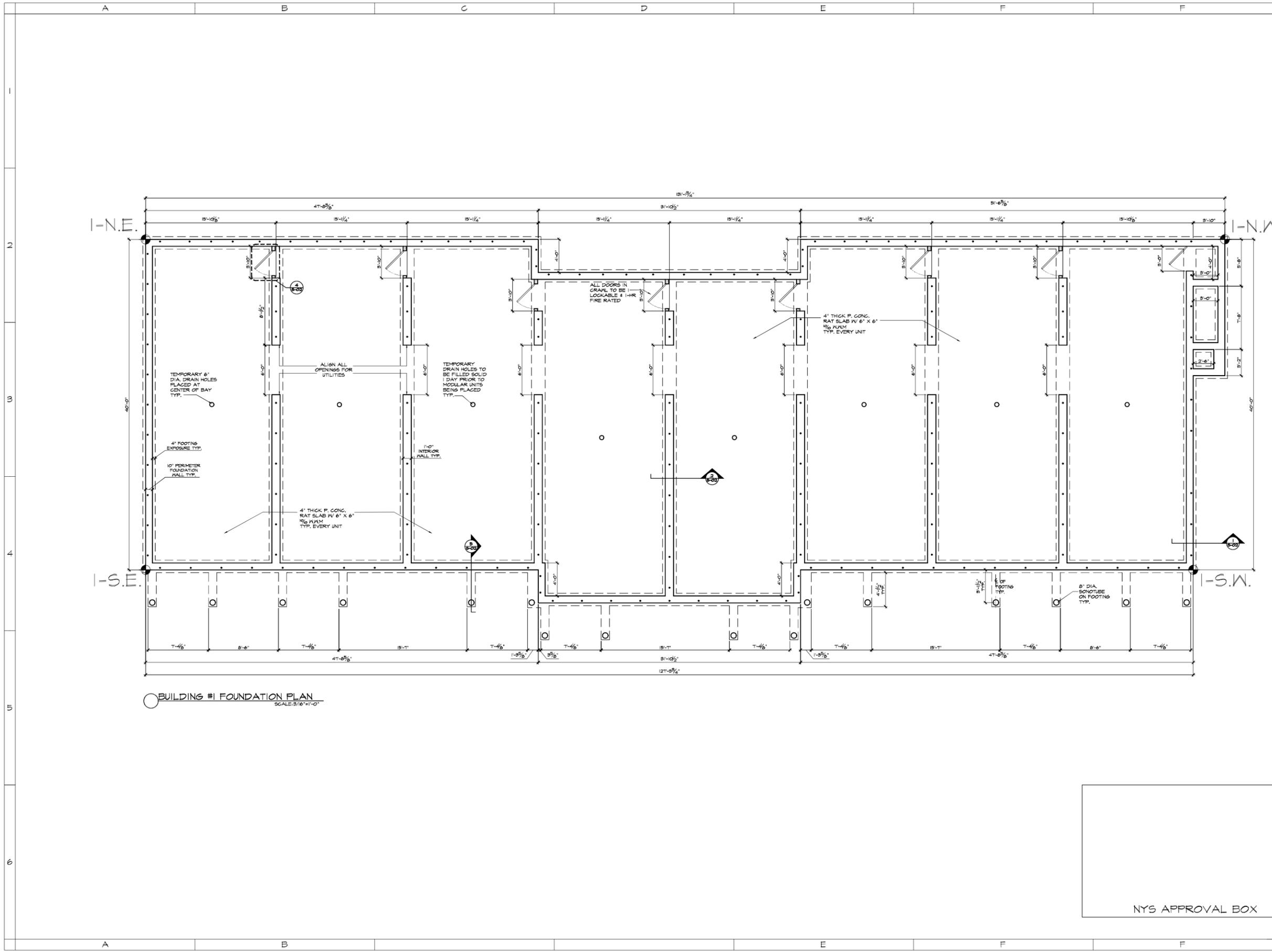
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STRUCTURAL FOUNDATION DETAILS



AS NOTED	S-02
T.J.C.	
K.S.M.	
T.J.C.	



BUILDING #1 FOUNDATION PLAN
SCALE: 3/16"=1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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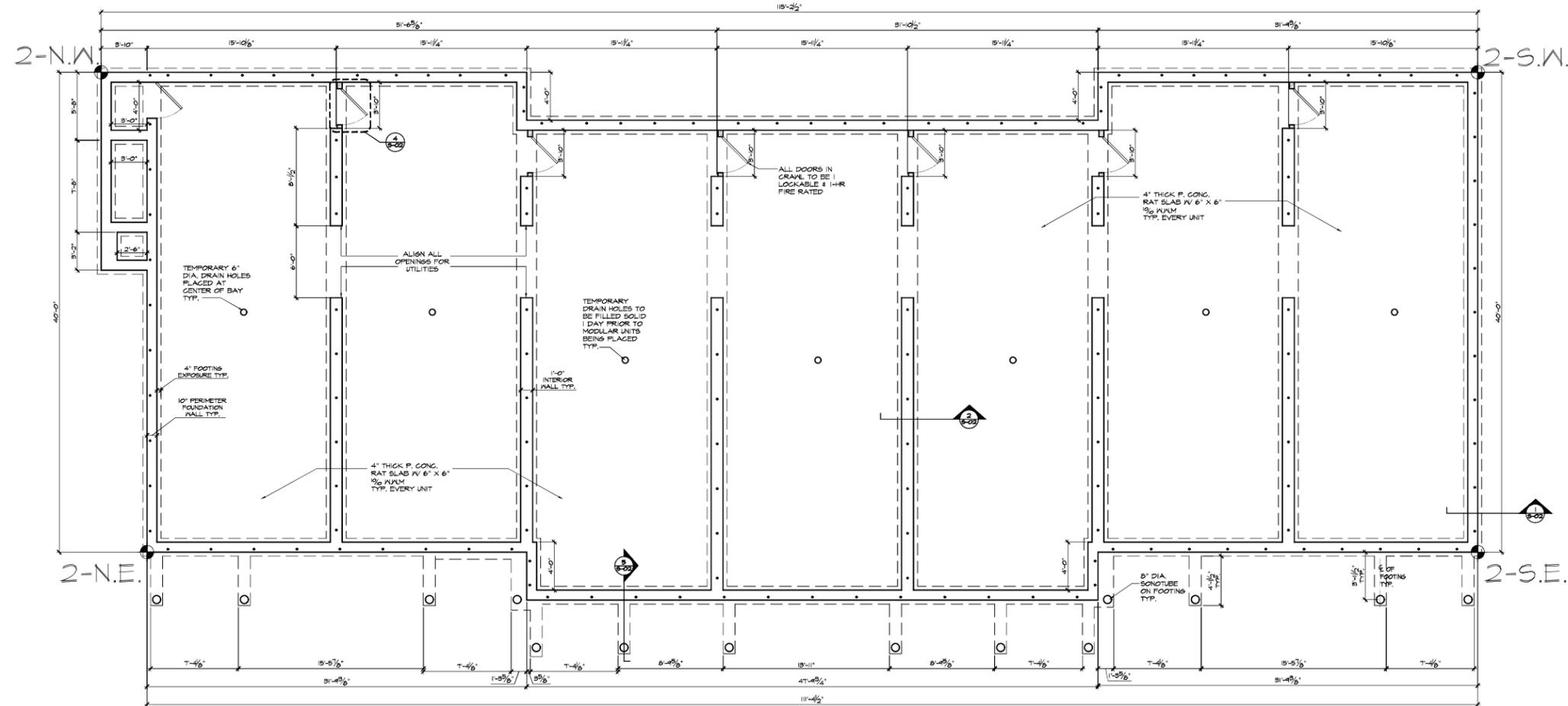
GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

STRUCTURAL FOUNDATION BUILDING #1

AS NOTED

T.J.C.	S-03
K.S.M.	
T.J.C.	

NYS APPROVAL BOX



BUILDING #2 FOUNDATION PLAN
SCALE: 3/16"=1'-0"

NYS APPROVAL BOX

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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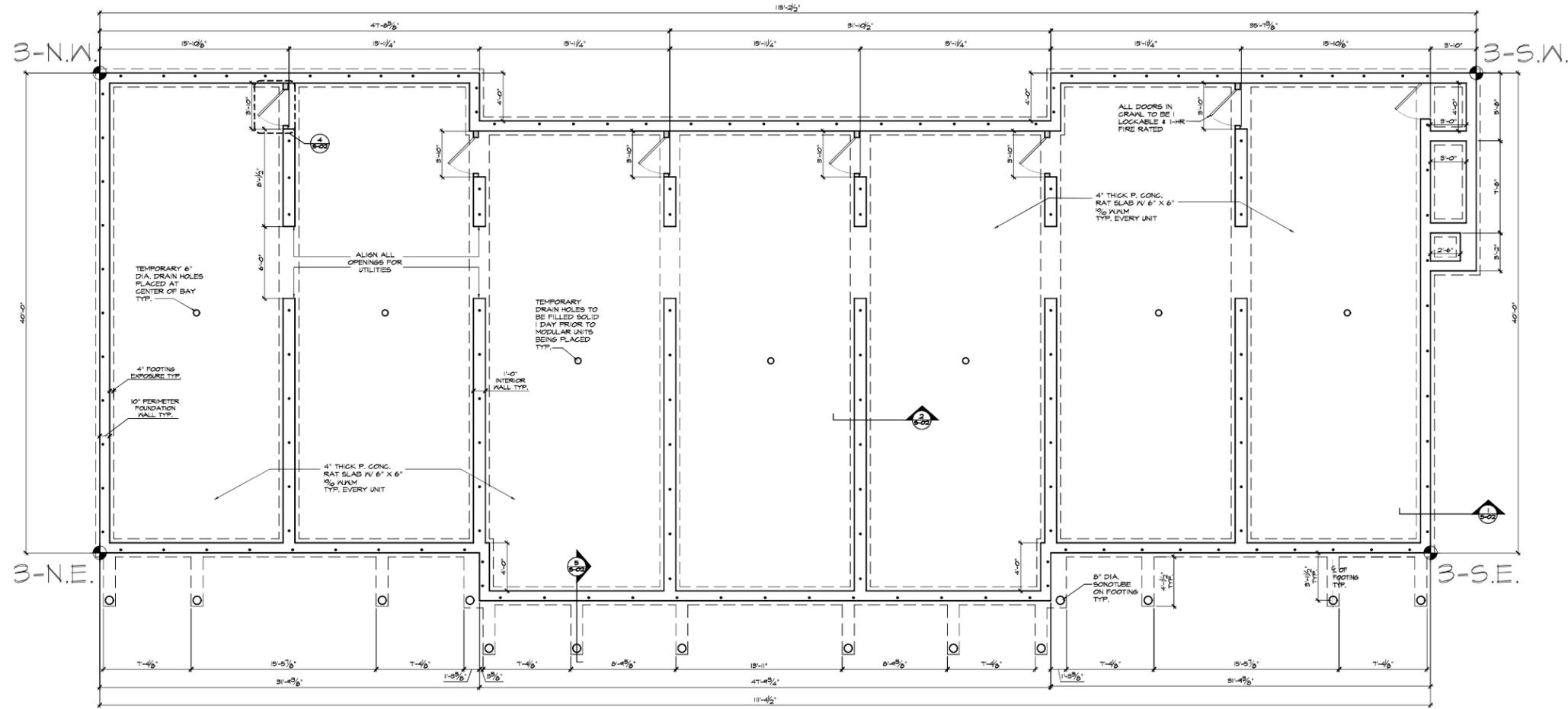


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STRUCTURAL FOUNDATION BUILDING #2

AS NOTED	S-04
T.J.C.	
K.S.M.	
T.J.C.	



BUILDING #3 FOUNDATION PLAN
SCALE: 3/16"=1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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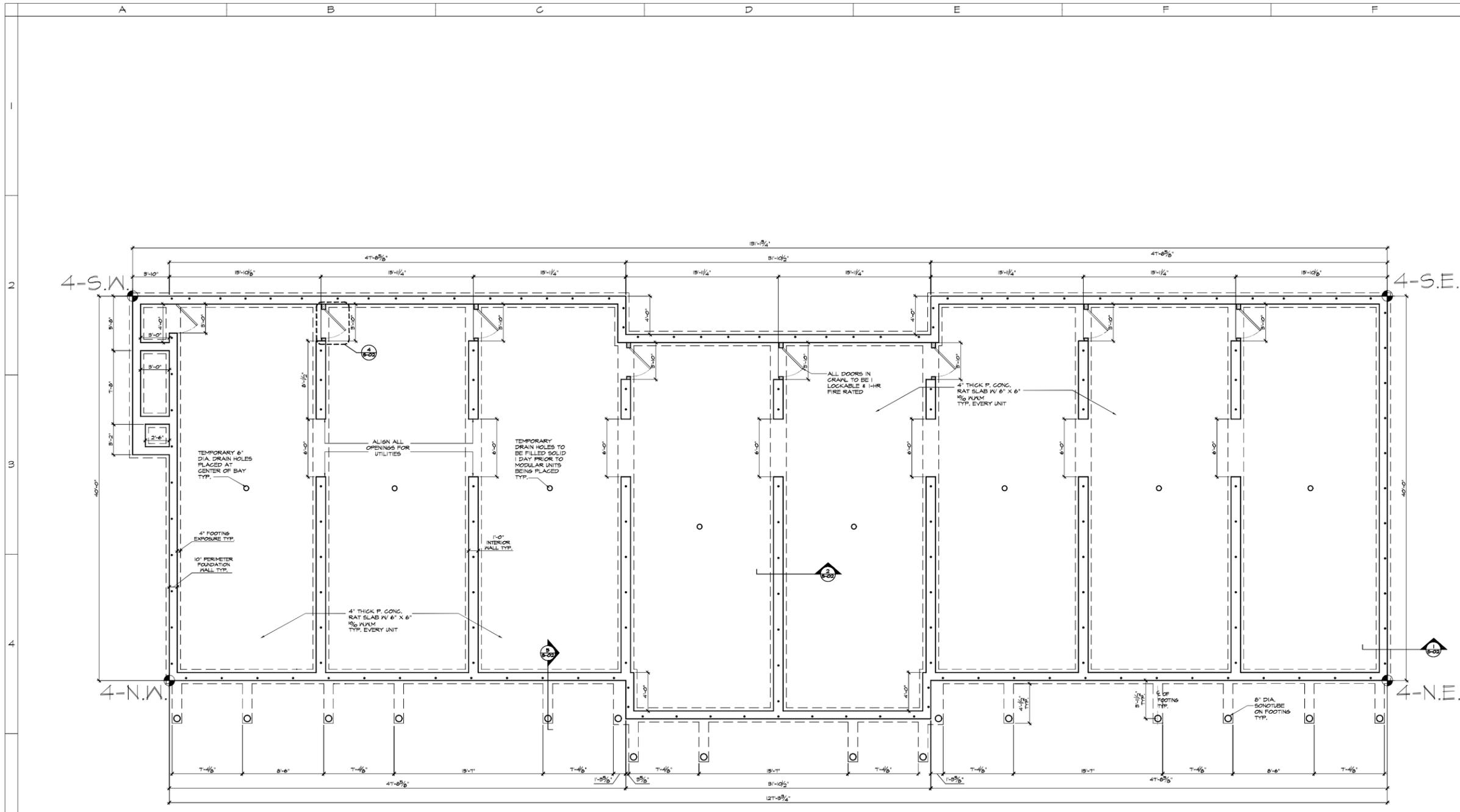
GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

STRUCTURAL FOUNDATION BUILDING #3

NYS APPROVAL BOX

SCALE	AS NOTED
DATE	T.J.C.
DESIGNED BY	K.S.M.
CHECKED BY	T.J.C.

S-05



BUILDING #4 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

OWNER
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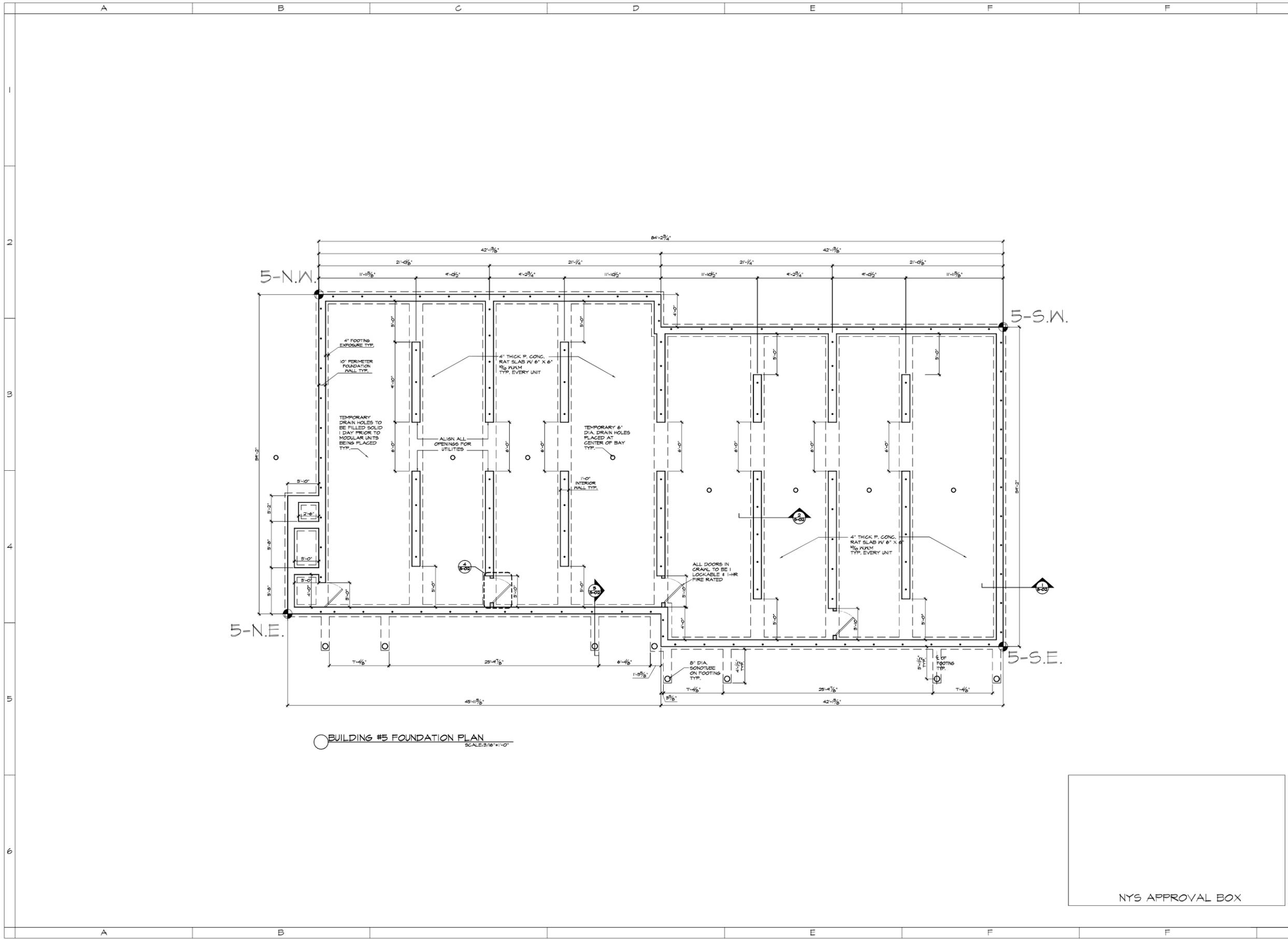
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GRAND STREET, WESTBURY, NY 11590

STRUCTURAL FOUNDATION BUILDING #4

NYS APPROVAL BOX

SCALE	AS NOTED
DATE	T.J.C.
DESIGNED BY	P.S.M.
CHECKED BY	T.J.C.

S-06



BUILDING #5 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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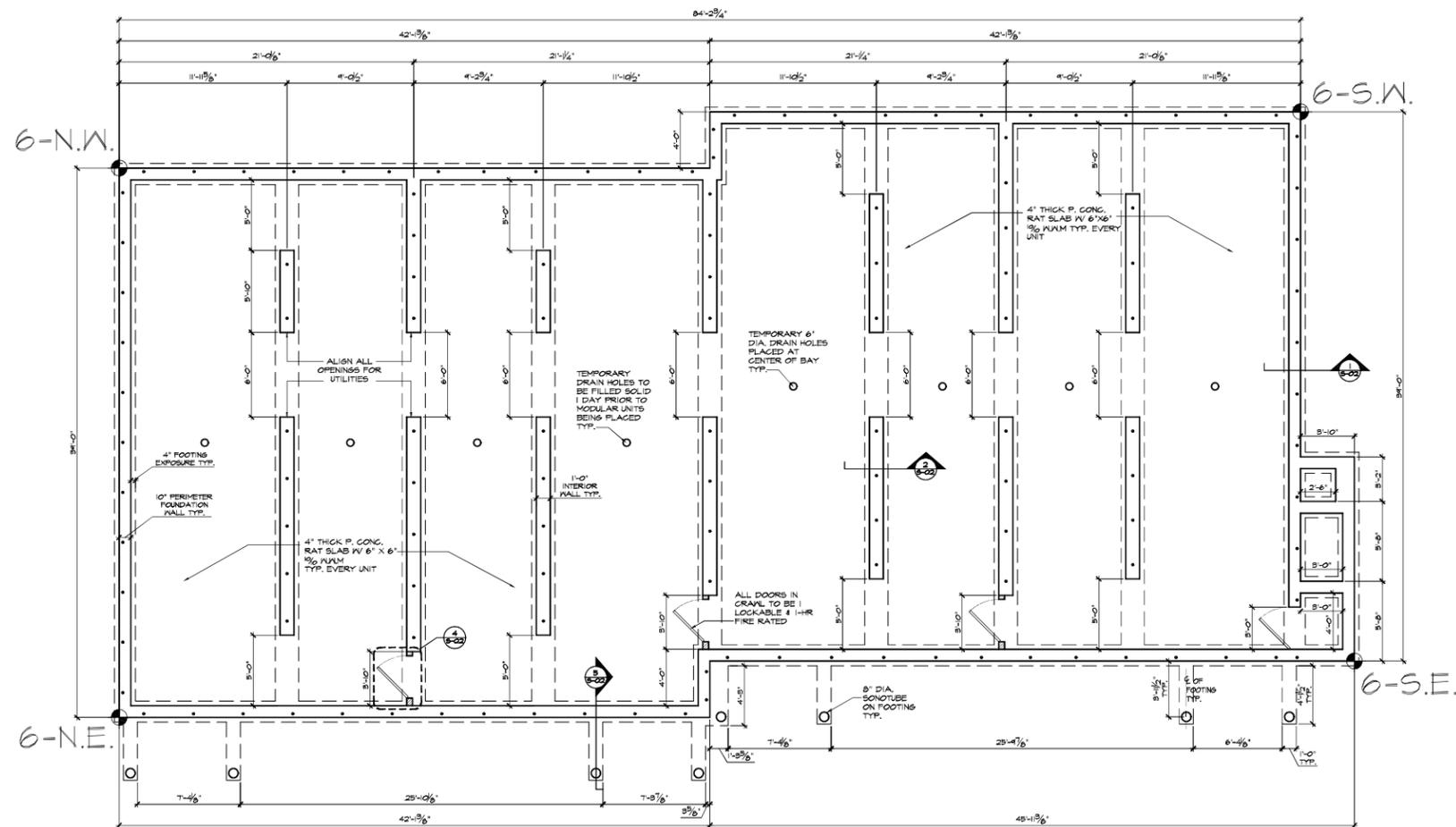
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RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

STRUCTURAL FOUNDATION BUILDING #5

NYS APPROVAL BOX

SCALE	AS NOTED
DESIGNED BY	T.J.C.
CHECKED BY	K.S.M.
DATE	T.J.C.

S-07



1 BUILDING #6 FOUNDATION PLAN
SCALE: 3/16"=1'-0"

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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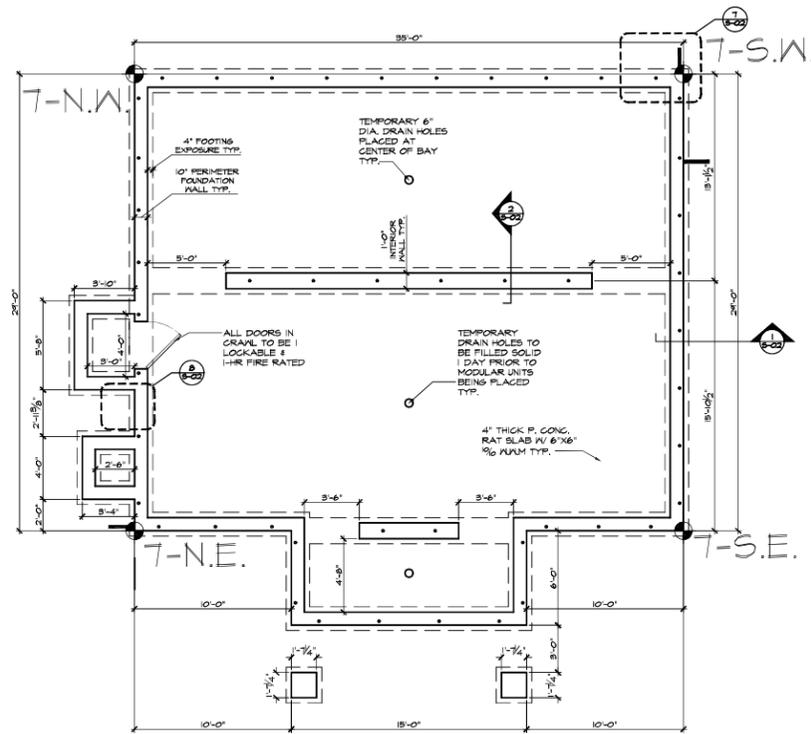
STRUCTURAL FOUNDATION BUILDING #6



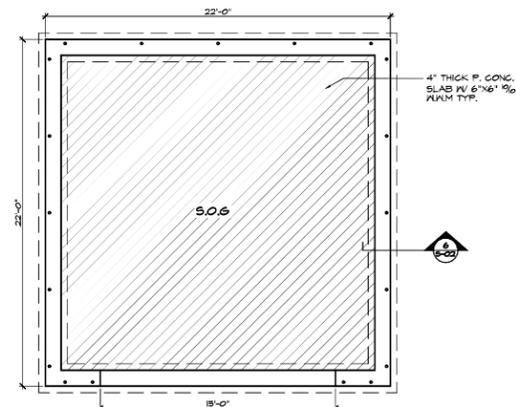
NOTES

AS NOTED
T.J.C.
K.S.M.
T.J.C.

5-08



1 BUILDING #7 FOUNDATION PLAN
SCALE: 3/16"=1'-0"



2 MAINTENANCE GARAGE FOUNDATION PLAN
SCALE: 3/16"=1'-0"

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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GRAND STREET, WESTBURY, NY 11590

**STRUCTURAL FOUNDATION
COMMUNITY BUILDING
& GARAGE**

NYS APPROVAL BOX

SCALE	AS NOTED	S-09
DESIGNED BY	T.J.C.	
CHECKED BY	K.S.M.	
DATE	T.J.C.	

DATE-REVISIONS

02.09.16	PERMIT REVIEW

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GRAND STREET HOMES
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 GRAND STREET, WESTBURY, NY 11590

COMMUNITY BUILDING
 FIRST FLOOR
 SHEAR WALL
 CONNECTIONS

AS NOTED
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES

S-10

UPLIFT CONNECTIONS EXT WALL:

1st Story Wall Stud to Floor Band Connection	7/16" OSB/PLY overlap floor joist min. 3"	line_A	442 plf	4 in o.c.
	0.113in x 2in nails Use 2 rows of fasteners along bottom edge of panel	line_B	328 plf	6 in o.c.
		line_1	0 plf	6 in o.c.
		line_2	317 plf	6 in o.c.
Floor Band to Sill Plate Connection	7/16" OSB/PLY overlap sill plate 1.5"	line_A	442 plf	3 in o.c.
	0.113in x 2in nails Use 1 row of fasteners along bottom edge of panel	line_B	328 plf	3 in o.c.
		line_1	0 plf	3 in o.c.
		line_2	317 plf	3 in o.c.

SHEAR WALL SPECS:

1st Story Wall - line_1	362 plf	7/16" OSB w/ 0.113"x2" nails @ 3" o.c. panel edge & 12" o.c. field nailing (exterior)
Segmented		
1st Story Wall - line_2	251 plf	7/16" OSB w/ 0.113"x2" nails @ 4" o.c. panel edge & 12" o.c. field nailing (exterior)
Perforated		
1st Story Wall - line_A	236 plf	7/16" OSB w/ 0.113"x2" nails @ 3" o.c. panel edge & 12" o.c. field nailing (exterior)
Perforated		
1st Story Wall - line_B	197 plf	7/16" OSB w/ 0.113"x2" nails @ 4" o.c. panel edge & 12" o.c. field nailing (exterior)
Perforated		

OVERTURNING CONNECTIONS:

1st Story Module to Foundation - line_1	3823 lb	Simpson Strong-Tie STHD14RJ	1/2 in min concrete cover and (30) 16d sinkers, locate 1.5in from corner
1st Story Module to Foundation - line_2	2477 lb	Simpson Strong-Tie STHD14RJ	1/2 in min concrete cover and (30) 16d sinkers, locate 1.5in from corner
1st Story Module to Foundation - line_A	1959 lb	Simpson Strong-Tie STHD14RJ	1/2 in min concrete cover and (30) 16d sinkers, locate 1.5in from corner
1st Story Module to Foundation - line_B	1046 lb	Simpson Strong-Tie STHD14RJ	1/2 in min concrete cover and (30) 16d sinkers, locate 1.5in from corner

TOP PLATE SPLICE LIMITATIONS:

Minimum splice lap where splices are allowed = 4 ft

1st Floor	5128 lb	Double 2x6 Top Plate - No Splices		
Endwalls		Double 2x10 Perimeter Rail - No Splices		
1st Floor	3029 lb	Double 2x6 Top Plate - With Splices &	Stagger 2 rows of 0.131" x 3.0" Nails	@ 8 in oc
Sidewalls		Double 2x10 Perimeter Rail - With Splices &	Stagger 2 rows of 0.131" x 3.0" Nails	@ 8 in oc

SLIDING CONNECTIONS:

Roof to Wall Plate Connection	85 lb	0.131" x 3" toenails.	2
Top Plate to Studs & Bottom Plate to Studs	78 lb	0.131" x 3.0" Nails in End-Grain 2 per stud	NA
Bottom Plate to Floor	58 plf	0.131" x 3.0" Nails 16 in o.c.	NA
Truss Bottom Chord or Ceiling Joist to Endwall Top Plate	81 plf	0.131" x 3.0" Nails toed @ 8 in OC	
1st Story to Sill Plate Connection - line_1 & line_2	212 plf	0.131" x 3" toenails. @ 6 in OC	N/A
1st Story to Sill Plate Connection - line_A & line_B	195 plf	0.131" x 3" toenails. @ 6 in OC	N/A
1st Floor Endwall Mateline - Top Plate to Top Plate / Ceiling Rim to Ceiling Rim across Mateline	2564 lb	2 Simpson LSTA30 Straps	(22) 0.148in x 2.5in nails each strap
1st Floor Endwall Mateline - Floor Rim to Floor Rim across Mateline	2564 lb	2 Simpson LSTA30 Straps	(22) 0.148in x 2.5in nails each strap

BUILT UP COLUMN CONNECTIONS:

Connection made with	0.131" x 3.0" Nails
Required Spacing for two rows staggered =	4 in o.c.

COMMUNITY BUILDING - FIRST STORY SHEAR WALL CONNECTIONS
 SCALE: 3/8" = 1'-0"

1

UPLIFT CONNECTIONS EXT WALL:

Truss to Top Plate Connection	125 plf	Simpson Strong-Tie H2.5T @ 32 in o.c.	(5) 0.131"x2.5" nails each end
Wall Sheathing to Top Plate Connection	125 plf	7/16" OSB/PLY overlap 2 rows of fasteners @ 6 in o.c.	0.113in x2-3/8in nails
2nd Story Wall Stud to 2nd Story Floor Band Connection	7/16" OSB/PLY overlap 2 rows of 0.113"x2.0" Nails	line_A	125 plf 6 in o.c.
		line_B	128 plf 6 in o.c.
2nd Story Floor Band to 1st Wall Stud Connection	7/16" OSB/PLY overlap 2 rows of 0.113"x2.0" Nails	line_1	201 plf 6 in o.c.
		line_2	163 plf 6 in o.c.
2nd Story Wall - line_A	7/16" OSB/PLY overlap 2 rows of 0.113"x2.0" Nails	line_A	94 plf 6 in o.c.
		line_B	128 plf 6 in o.c.
2nd Story Wall - line_B	7/16" OSB/PLY overlap 2 rows of 0.113"x2.0" Nails	line_1	201 plf 6 in o.c.
		line_2	163 plf 6 in o.c.

SHEAR WALL SPECS:

2nd Story Wall - line_1 Perforated	158 plf	7/16" OSB w/ 0.113"x2" nails @ 4" o.c. panel edge & 12" o.c. field nailing (exterior)
2nd Story Wall - line_2 Perforated	139 plf	7/16" OSB w/ 0.113"x2" nails @ 6" o.c. panel edge & 12" o.c. field nailing (exterior)
2nd Story Wall - line_A Perforated	73 plf	7/16" OSB w/ 0.113"x2" nails @ 6" o.c. panel edge & 12" o.c. field nailing (exterior)
2nd Story Wall - line_B Perforated	95 plf	7/16" OSB w/ 0.113"x2" nails @ 6" o.c. panel edge & 12" o.c. field nailing (exterior)

OVERTURNING CONNECTIONS:

2nd Story Module to 1st Story Module - line_1	927 lb	(1) Simpson Strong-Tie CS16 strap	(22) 10d nails ea strap
2nd Story Module to 1st Story Module - line_2	624 lb	(1) Simpson Strong-Tie CS16 strap	(22) 10d nails ea strap
2nd Story Module to 1st Story - line_A	OK	Dead Load of Structure is Sufficient to Resist Overturning Load	0
2nd Story Module to 1st Story Module - line_B	OK	Dead Load of Structure is Sufficient to Resist Overturning Load	0

SLIDING CONNECTIONS:

Roof to Wall Plate Connection	85 lb	0.131" x 3" toenails.	2
Top Plate to Studs & Bottom Plate to Studs	76 lb	0.131" x 3.0" Nails in End-Grain 2 per stud	NA
Bottom Plate to Floor	58 plf	0.131" x 3.0" Nails 16 in o.c.	NA
Truss Bottom Chord or Ceiling Joist to Endwall Top Plate	81 plf	0.131" x 3.0" Nails toed @ 8 in OC	
2nd Story to 1st Story Connection - line_1 & line_2	147 plf	0.131" x 3" toenails. @ 6 in OC	N/A
2nd Story to 1st Story Connection - line_A & line_B	129 plf	0.131" x 3" toenails. @ 6 in OC	N/A
2nd Floor Endwall Mateline - Top Plate to Top Plate / Ceiling Rim to Ceiling Rim across Mateline	1419 lb	1 Simpson LSTA30 Straps	(22) 0.148in x 2.5in nails each strap
2nd Floor Endwall Mateline - Floor Rim to Floor Rim across Mateline	1419 lb	1 Simpson LSTA30 Straps	(22) 0.148in x 2.5in nails each strap

SHEATHING CONNECTIONS:

Roof Sheathing	81 plf	7/16" OSB (Unblocked)	MAIN ROOF: 0.113"x2" nails at 6" o.c. panel edge nailing and 12" o.c. field nailing
	Shear		OVERHANGS: 6 in o.c. edge & field 0.113"x2" nails at 6" o.c. panel edge nailing and 12" o.c. field nailing
Wall Sheathing	24 plf	7/16" OSB	0.113"x2" nails at 6" o.c. panel edge fastening and 12" o.c. field fastening
Non Shear Wall	Suction		
Floor Sheathing	65 plf	5/8in OSB (Unblocked)	0.113"x2" nails at 6" o.c. panel edge fastening and 12" o.c. field fastening
	Shear		

TOP PLATE SPLICE LIMITATIONS:

Minimum splice lap where splices are allowed = **4** ft

2nd Floor	2838 lb	Double 2x6 Top Plate - No Splices	
Endwalls			
2nd Floor	1494 lb	Double 2x6 Top Plate - With Splices &	Stagger 2 rows of 0.131" x 3.0" Nails @ 8 in oc
Sidewalls			

BUILT UP COLUMN CONNECTIONS:

Connection made with **0.131" x 3.0" Nails**

Required Spacing for two rows staggered = **4** in o.c.

ON SITE ROOF CONNECTIONS:
TRUSS 'CCC79301'

Ridge Connection "6"	1 1/4" x 20 ga steel strap w/(7) 0.131x2.5" nails each end & (2) 0.131"x3.0" nails toed
Collar Tie Connection "4&8"	(6) 0.131"x3" nails
Flip Connection "5&7"	1 1/4" x 20 ga steel strap w/(7) 0.131x2.5" nails each end & (2) 0.131"x3.0" nails toed
Kneewall Conn. "12&14"	LTS12
Mateline Connection "13"	Sheathing Lap w/ (10) 0.131"x2.5" nails each side

DATE-REVISIONS

02.04.16	PERMIT REVIEW

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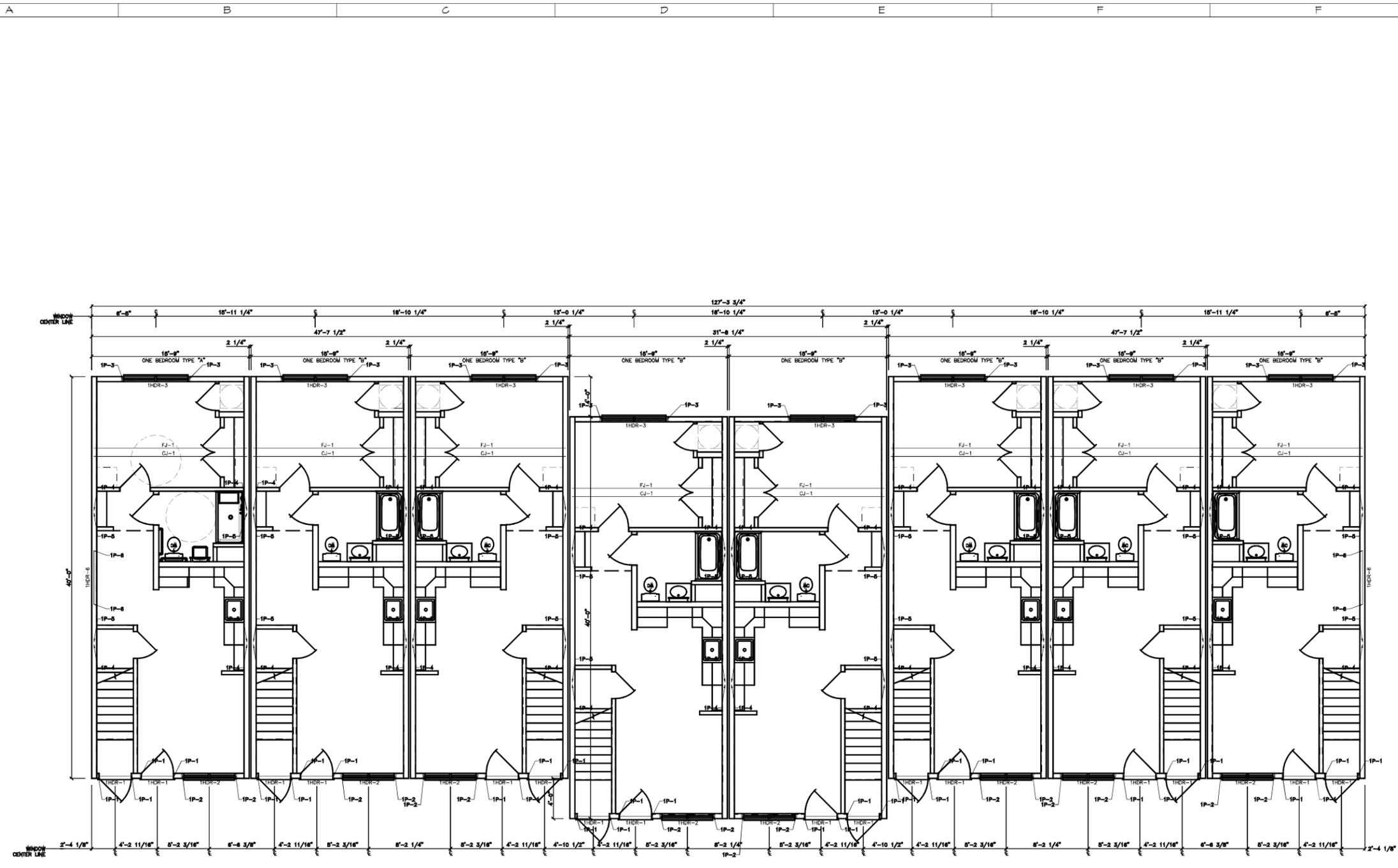
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COMMUNITY BUILDING SECOND FLOOR SHEAR WALL CONNECTIONS

AS NOTED
SIMPLEX HOMES
SIMPLEX HOMES
SIMPLEX HOMES

COMMUNITY BUILDING - SECOND STORY SHEAR WALL CONNECTIONS

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



FIRST LEVEL FLOOR PLAN - BUILDING #1 & #4 (1- BEDROOM UNITS)
 SCALE: 3/16" = 1'-0"

1

NYS APPROVAL BOX

DATE-REVISIONS	
02.09.18	PERMIT REVIEW

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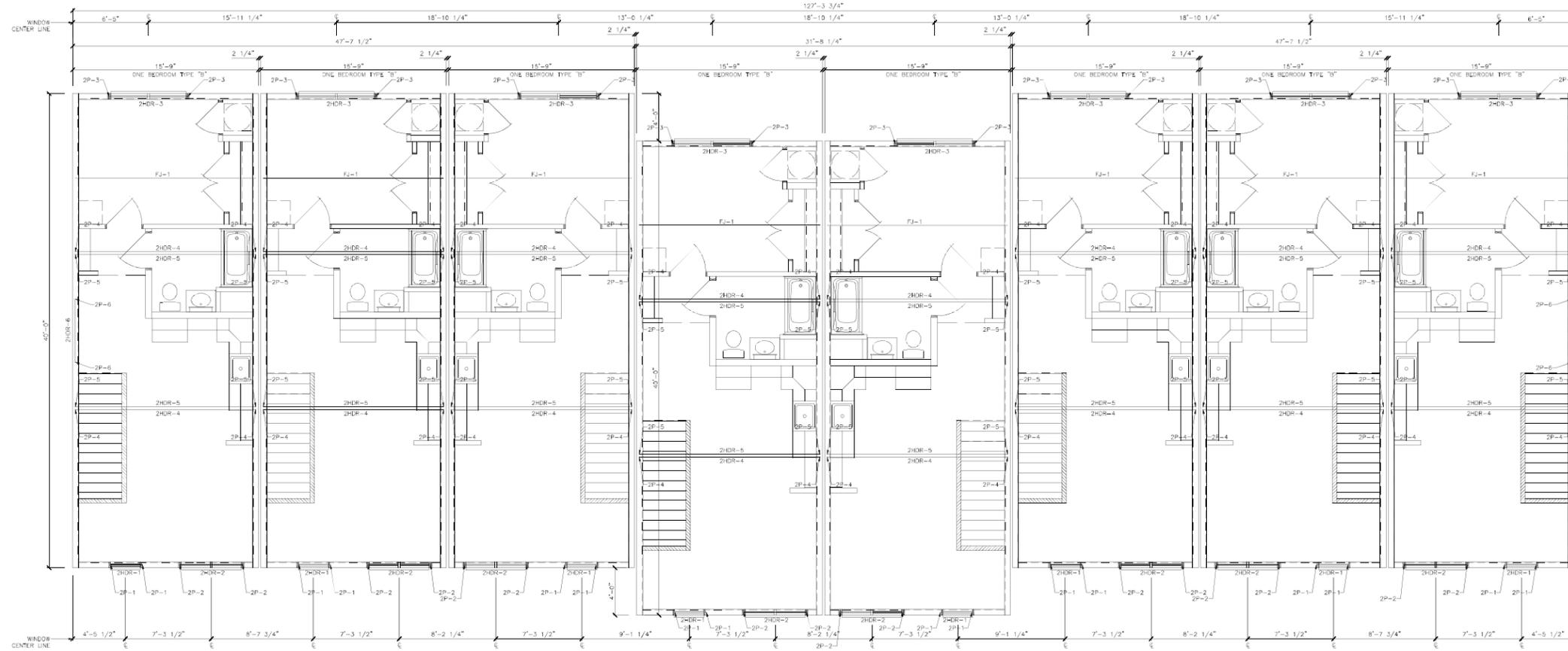


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BUILDING #1 & #4
 FIRST FLOOR PLAN

AS NOTED	A-01
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



SECOND LEVEL FLOOR PLAN - BUILDING #1 & #4 (1-BEDROOM UNITS)
 SCALE: 3/16" = 1'-0"

1

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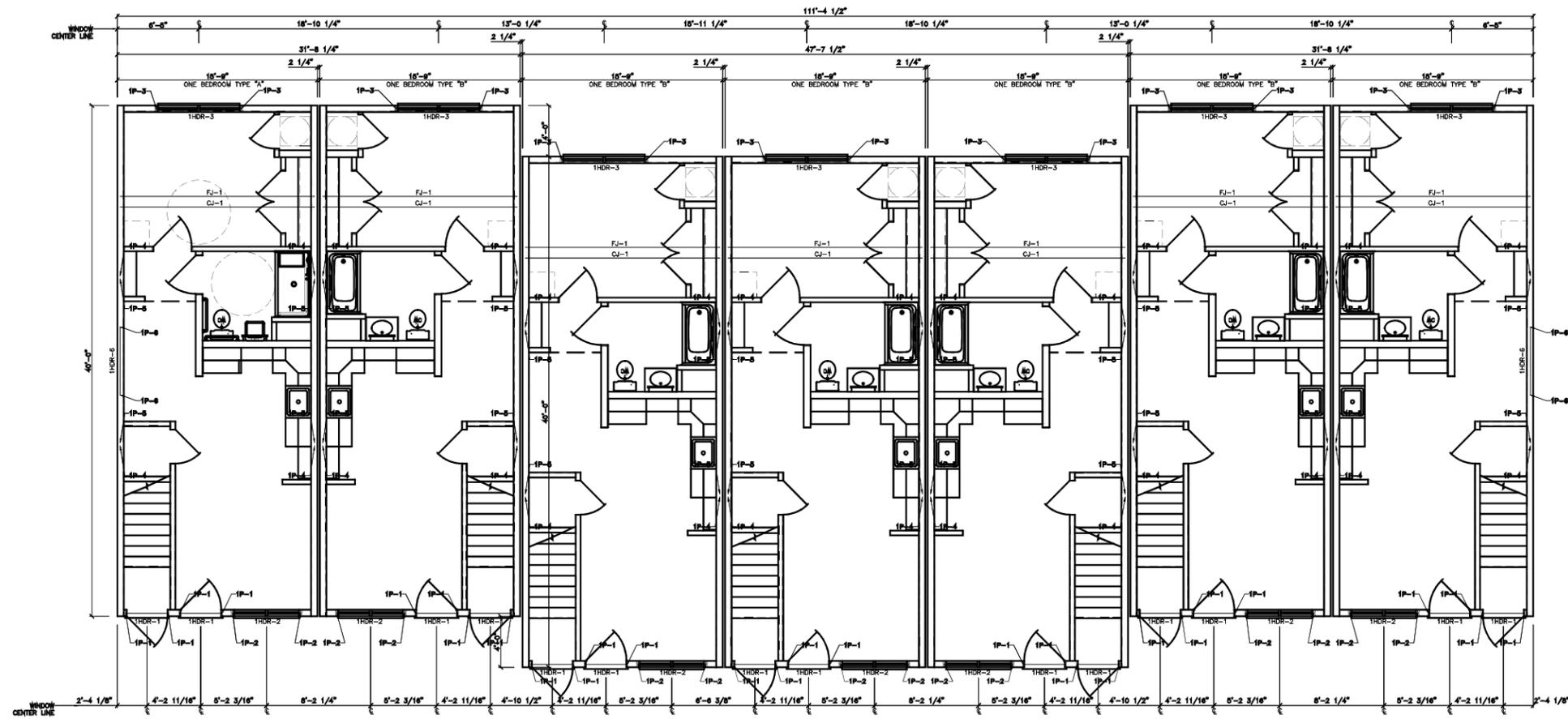


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BUILDING #1 & #4
 SECOND FLOOR PLAN

AS NOTED	A-02
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



FIRST LEVEL FLOOR PLAN – BUILDING #2 (1-BEDROOM UNITS)
SCALE: 3/16" = 1'-0"

1

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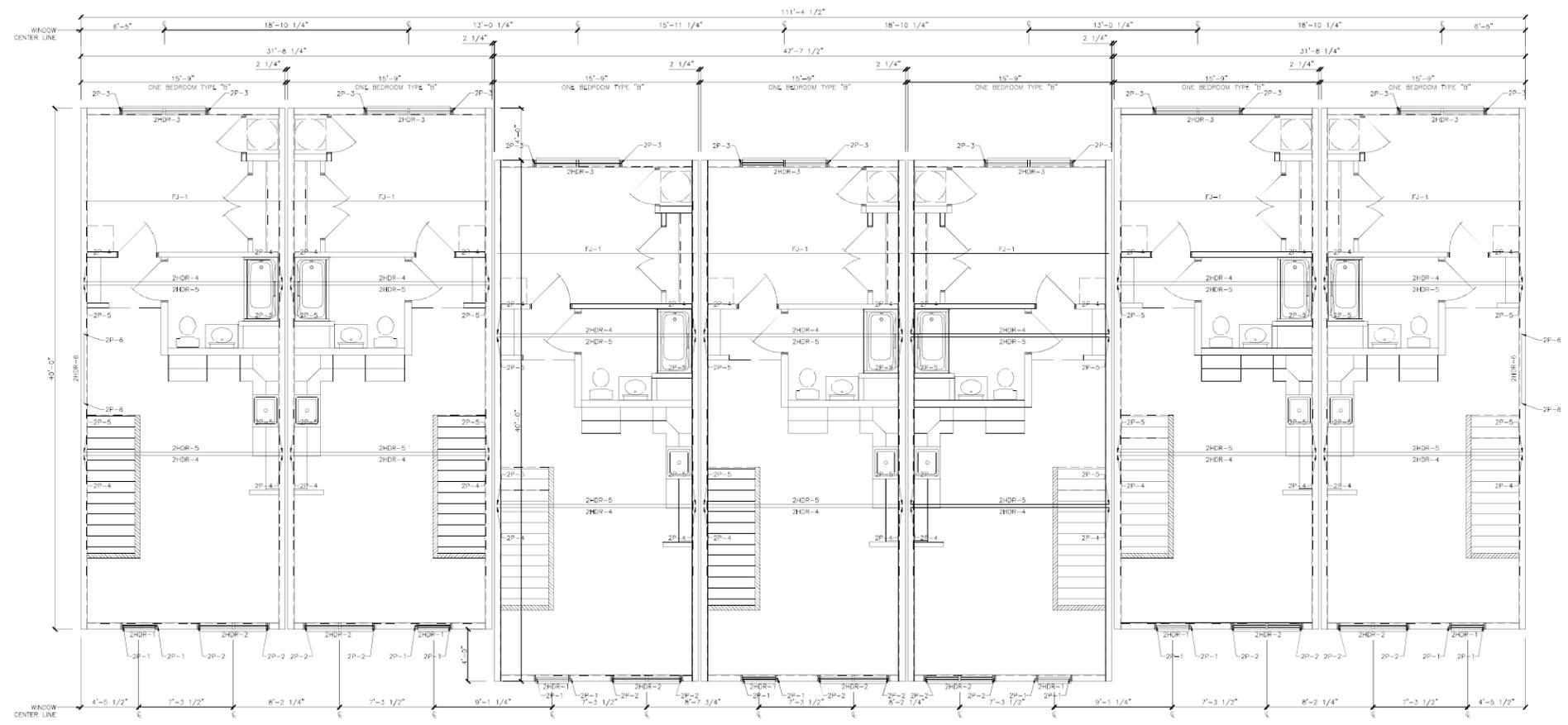
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BUILDING #2
FIRST FLOOR PLAN

AS NOTED
SIMPLEX HOMES
SIMPLEX HOMES
SIMPLEX HOMES

A-03



SECOND LEVEL FLOOR PLAN - BUILDING #2 (1-BEDROOM UNITS)
 SCALE: 3/16" = 1'-0"

1

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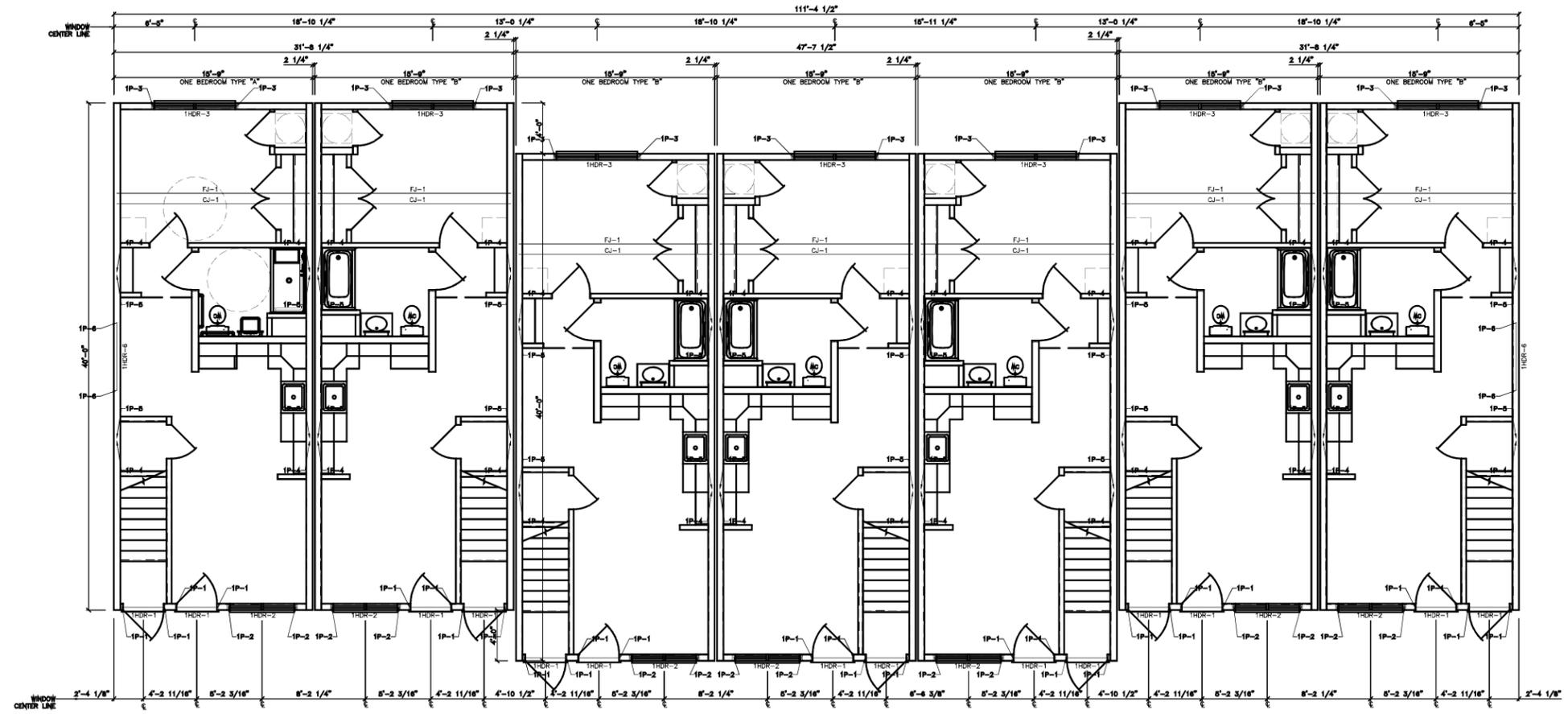


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BUILDING #2
 SECOND FLOOR PLAN

AS NOTED	A-04
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



FIRST LEVEL FLOOR PLAN - BUILDING #3 (1-BEDROOM UNITS)
 SCALE: 3/16" = 1'-0"

1

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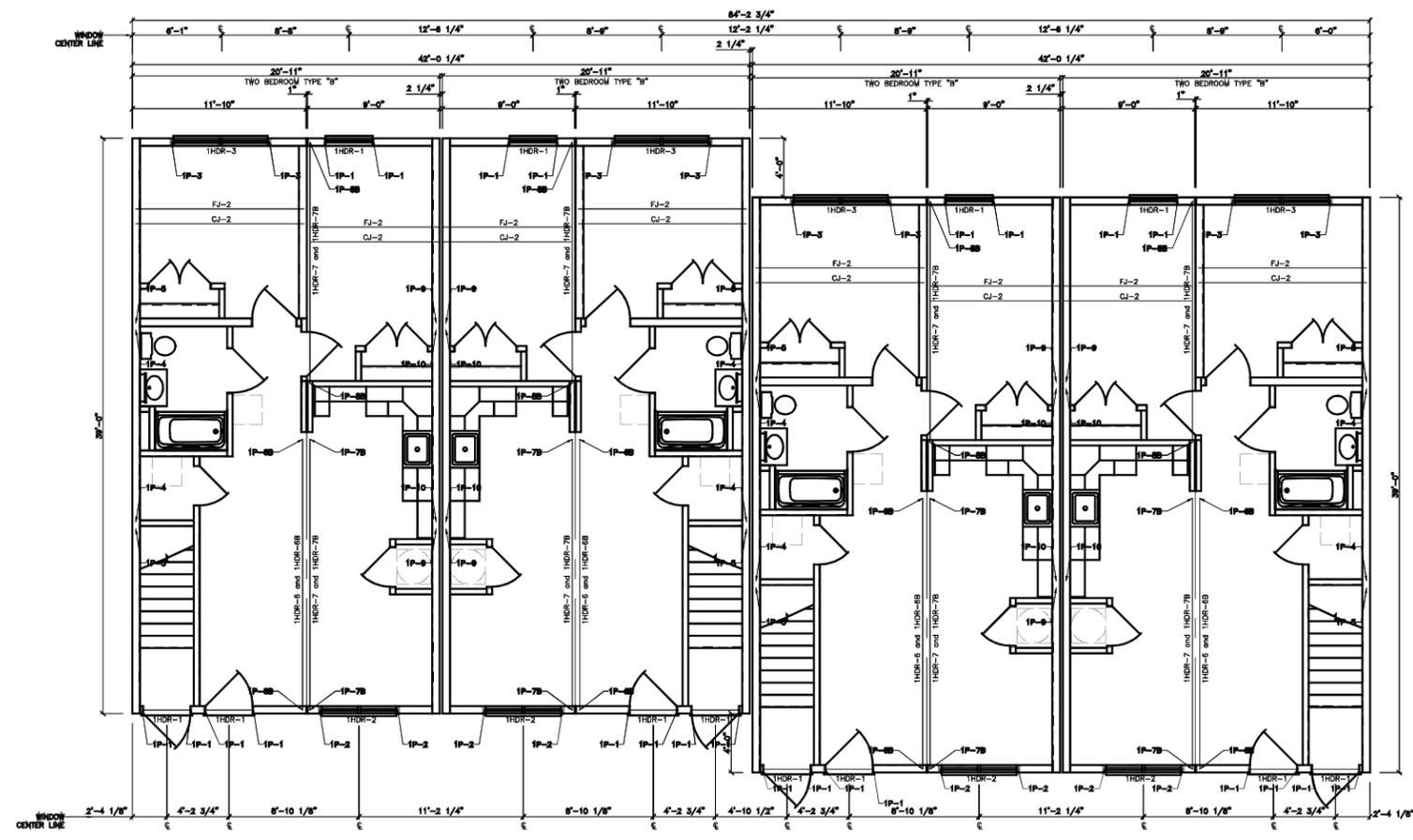


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**BUILDING #3
 FIRST FLOOR PLAN**

AS NOTED	A-05
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



FIRST LEVEL FLOOR PLAN - BUILDING #5 (2-BEDROOM UNITS)
SCALE: 3/16" = 1'-0"

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1 SIMPLEX DRIVE
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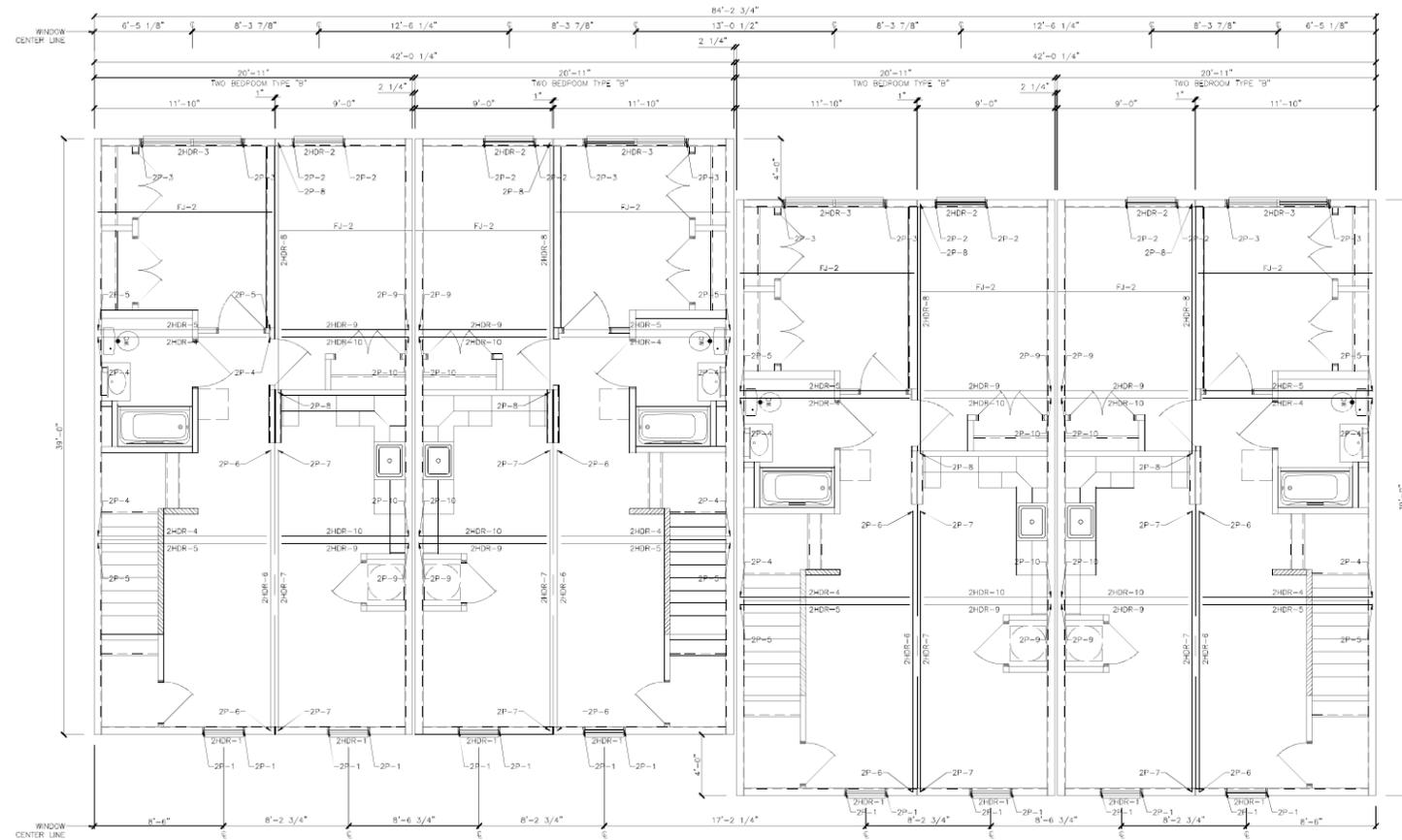


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GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

BUILDING #5
FIRST FLOOR PLAN

AS NOTED	A-07
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



SECOND LEVEL FLOOR PLAN - BUILDING #5 (2-BEDROOM UNITS)

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

1

NYS APPROVAL BOX

DATE-REVISIONS

02.09.16	PERMIT REVIEW

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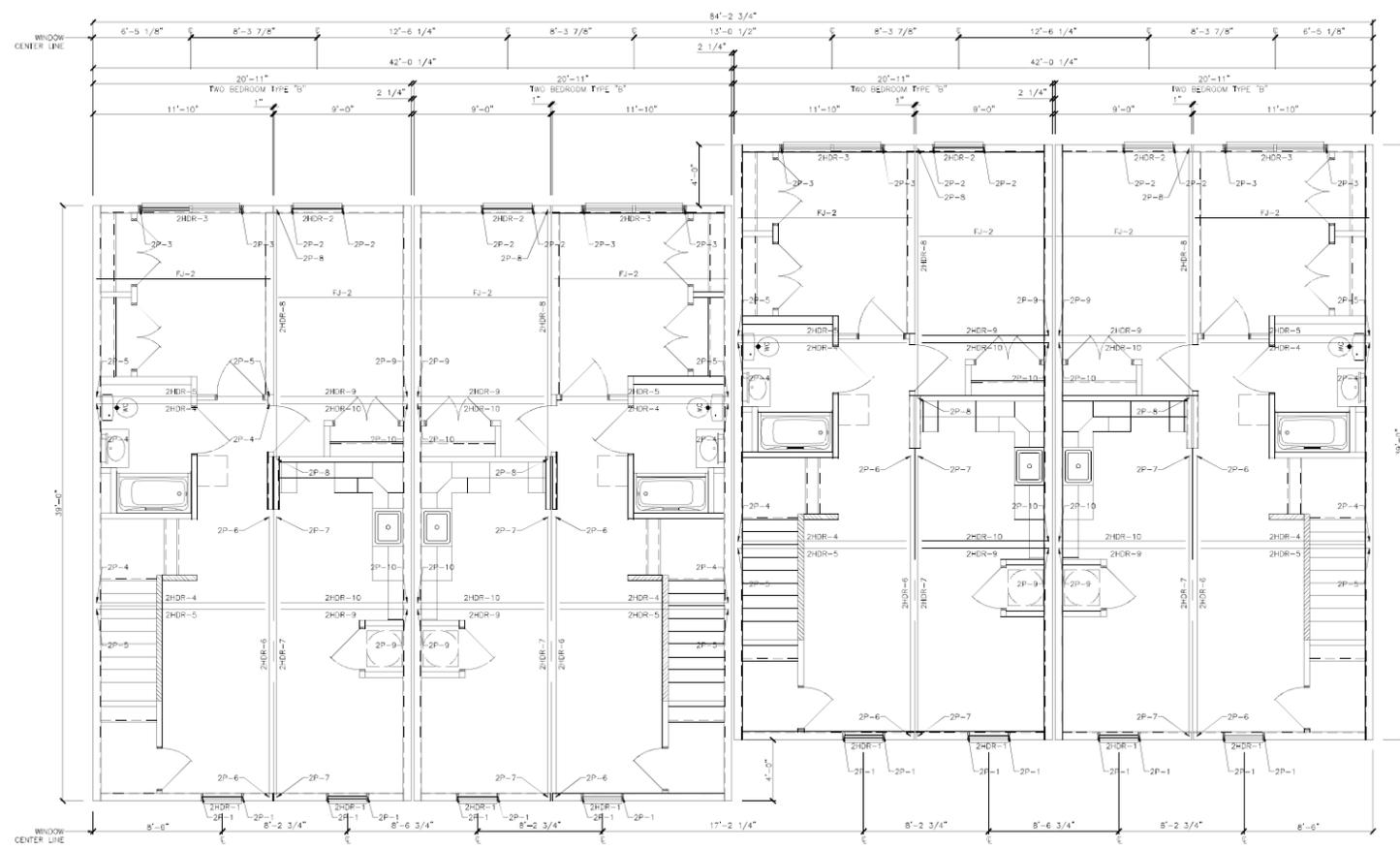
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GRAND STREET HOMES

RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

BUILDING #5
SECOND FLOOR PLAN

AS NOTED	A-08
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



SECOND LEVEL FLOOR PLAN - BUILDING #6 (2-BEDROOM UNITS)
 SCALE: 3/16" = 1'-0"

1

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DATE-REVISIONS	
02.09.16	PERMIT REVIEW

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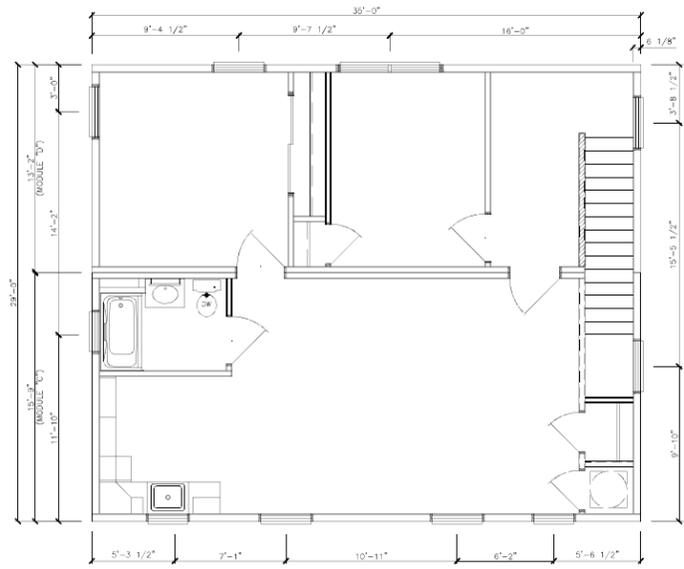


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GRAND STREET HOMES
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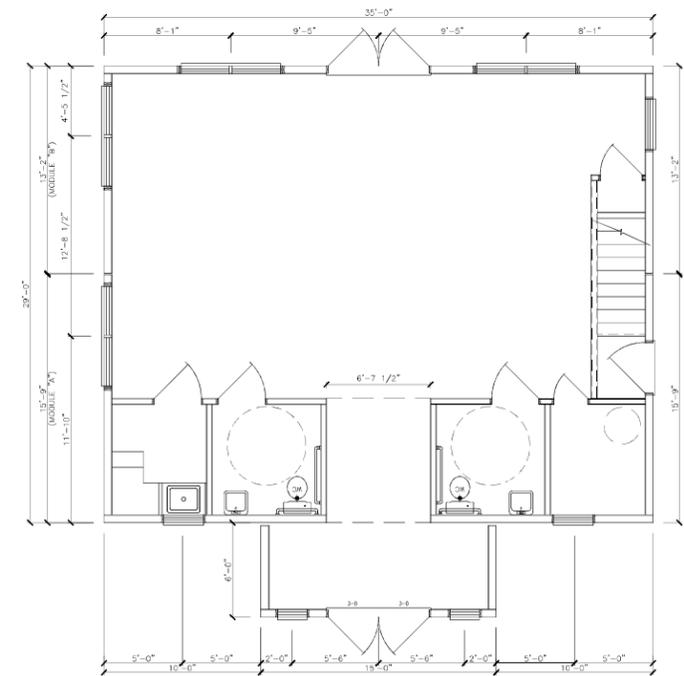
BUILDING #6
 SECOND FLOOR PLAN

AS NOTED	A-10
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



COMMUNITY BUILDING 2ND. LEVEL FLOOR PLAN
SCALE: 3/16" = 1'-0"

1



COMMUNITY BUILDING 1ST. LEVEL FLOOR PLAN
SCALE: 3/16" = 1'-0"

2

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DATE-REVISIONS

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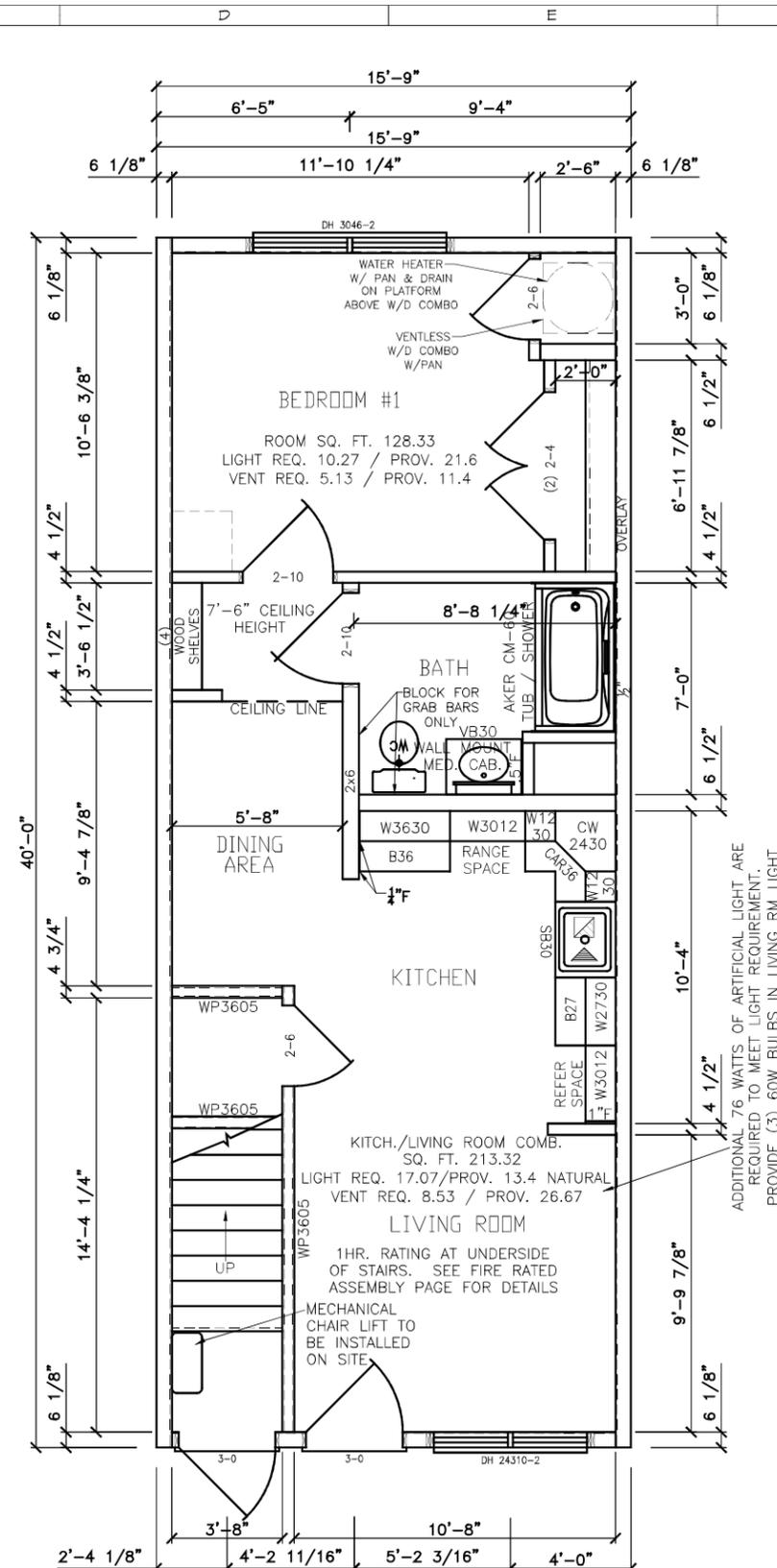
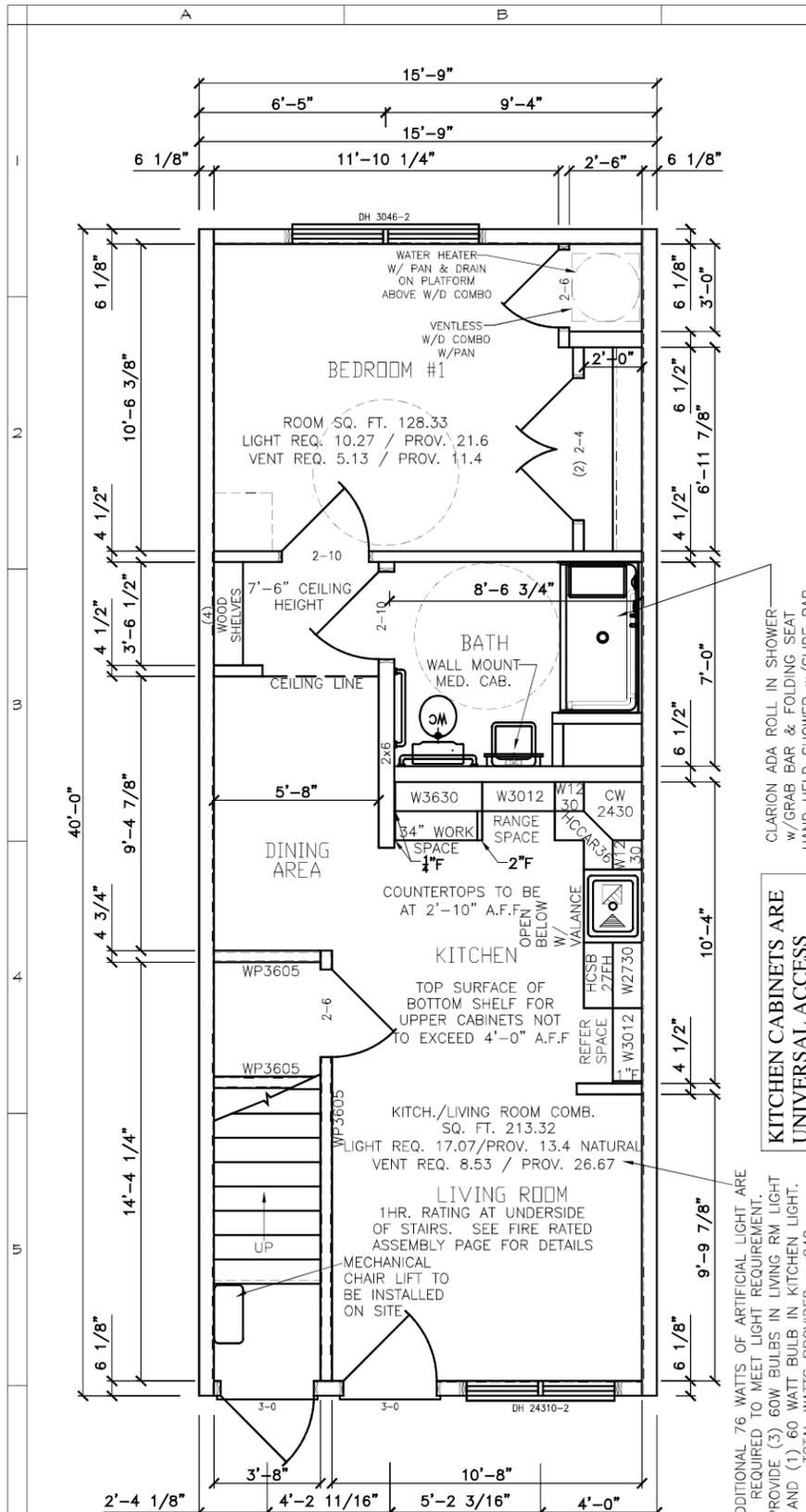
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GRAND STREET HOMES

RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

COMMUNITY BUILDING
FIRST & SECOND
FLOOR PLAN

AS NOTED	A-11
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



DATA PLATE
 STATE / PFS LABEL LOCATION

WINDOW SCHEDULE
WINDOW MANUFACTURE AND SERIES PLYGEM PRC SERIES DOUBLE HUNG WITH 3/4" LOW-E2 GLASS PACKAGE.

TAG	WINDOW I.D.	LIGHT PROV.	VENT PROV.	U-Factor	SHGC	FGRSS
24310	30 1/2" x 49 5/8"	6.7	3.5	30	0.22	0.27
24310-2	60 3/2" x 49 5/8"	13.4	7	30	0.25	0.27
3046	38 1/2" x 57 5/8"	10.8	5.7	30	0.22	0.27
3046-2	75 3/2" x 57 5/8"	21.6	11.4	30	0.25	0.27
24310	30 1/2" x 37 5/8"	4.8	2.5	30	0.28	0.27
24310	30 1/2" x 41 5/8"	5.5	2.8	30	0.25	0.27

ADDITIONAL 76 WATTS OF ARTIFICIAL LIGHT ARE REQUIRED TO MEET LIGHT REQUIREMENT. PROVIDE (3) 60W BULBS IN LIVING RM LIGHT AND (1) 60 WATT BULB IN KITCHEN LIGHT. TOTAL WATTS PROVIDED = 240

DATE-REVISIONS

02.09.18	PERMIT REVIEW
----------	---------------

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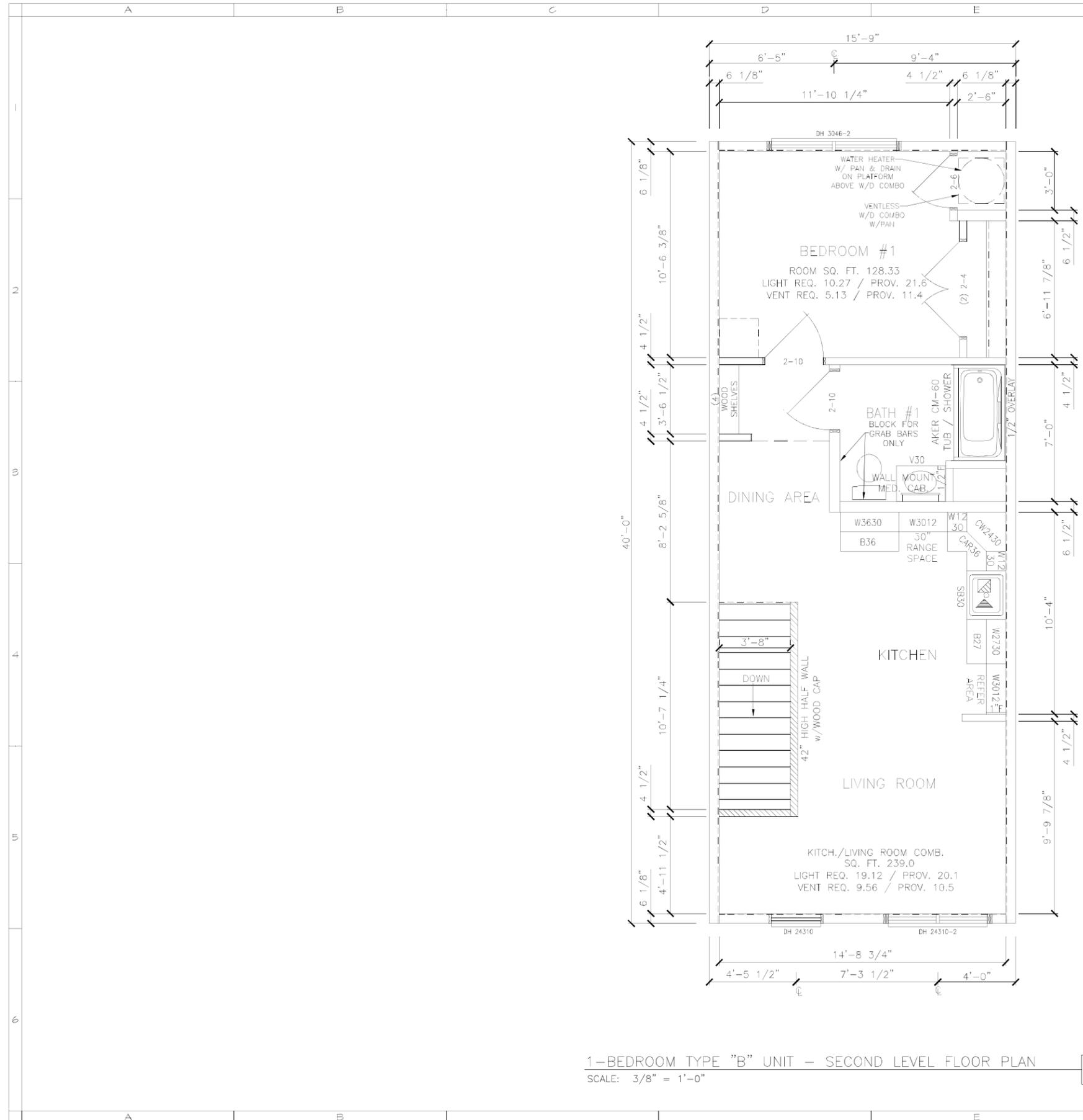
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1 BEDROOM UNIT FIRST FLOOR PLANS TYPE A & B

NYS APPROVAL BOX

A-12



1-BEDROOM TYPE "B" UNIT - SECOND LEVEL FLOOR PLAN
 SCALE: 3/8" = 1'-0"

DATE-REVISIONS	
02.04.16	PERMIT REVIEW

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GRAND STREET HOMES
 RESIDENCES & COMMUNITY ROOM
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1 BEDROOM UNIT
 SECOND FLOOR PLAN
 TYPE B

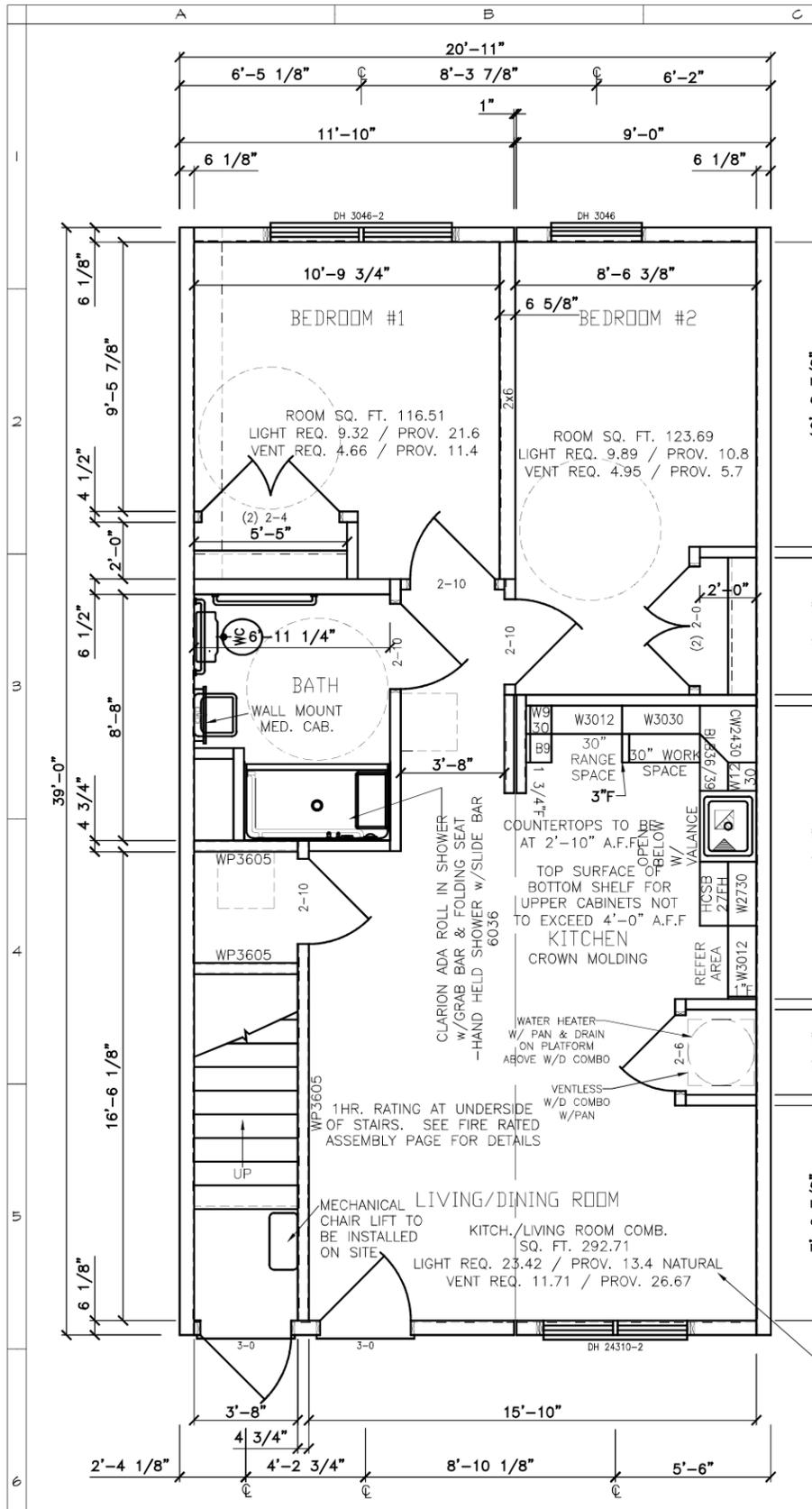
AS NOTED
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES



WINDOW SCHEDULE

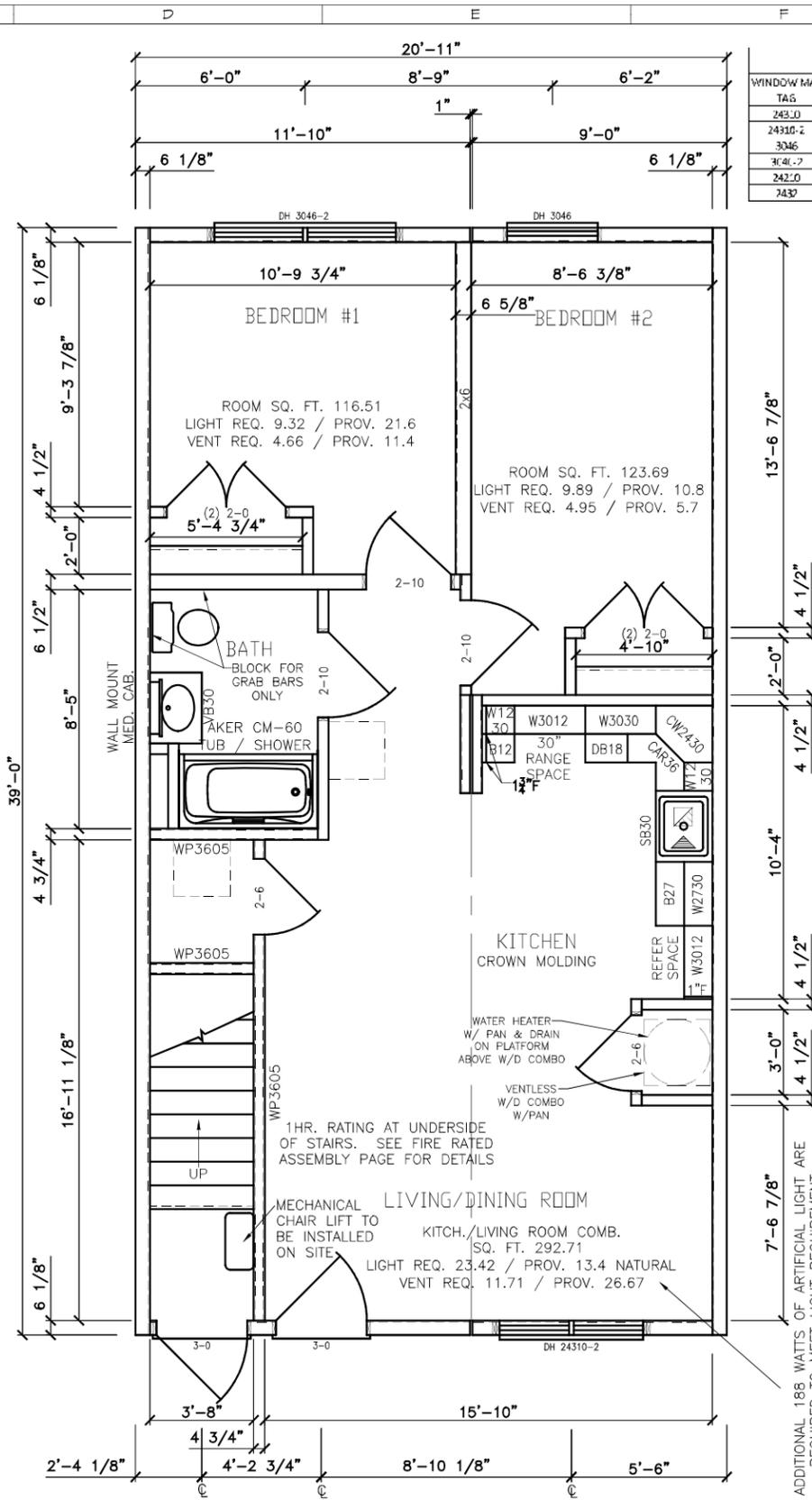
TAG	WINDOW R.D.	LIGHT PROV.	VEY. PROV.	U-F.	(DPI)	U-FACTOR	SHGC	FGRESS
24310-2	30 1/2" x 9 5/8"	6.7	3.5	50	0.25	0.27	NO	
3046	38 1/2" x 5 5/8"	13.4	7	50	0.25	0.27	NO	
3046-2	38 1/2" x 5 5/8"	10.8	5.7	50	0.25	0.27	YES	
3046-2	76 3/4" x 5 5/8"	21.6	11.4	50	0.25	0.27	YES	
24210	30 1/2" x 37 5/8"	4.8	2.5	50	0.25	0.27	NO	
2432	30 1/2" x 41 5/8"	5.5	2.8	50	0.25	0.27	NO	

- DATA PLATE
- STATE / PFS LABEL LOCATION



2-BEDROOM TYPE "A" UNIT - FIRST LEVEL FLOOR PLAN
 SCALE: 3/8" = 1'-0"
 1

ADDITIONAL 188 WATTS OF ARTIFICIAL LIGHT ARE REQUIRED TO MEET LIGHT REQUIREMENT. PROVIDE (3) 60W BULBS IN LIVING RM LIGHT AND (1) 60 WATT BULB IN KITCHEN LIGHT. TOTAL WATTS PROVIDED = 240



2-BEDROOM TYPE "B" UNIT - FIRST LEVEL FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 2

ADDITIONAL 188 WATTS OF ARTIFICIAL LIGHT ARE REQUIRED TO MEET LIGHT REQUIREMENT. PROVIDE (3) 60W BULBS IN LIVING RM LIGHT AND (1) 60 WATT BULB IN KITCHEN LIGHT. TOTAL WATTS PROVIDED = 240

WINDOW SCHEDULE							
WINDOW MANUFACTURE AND SERIES	FLYGEN PRC SER ES DOUBLE HUNG w/1/4" LOW-E2 GLASS PACKAGE						
T&S	WIND/W.R.D.	LIGHT PROV.	VENT PROV.	U-FAC (DPI)	SHGC	FGRESS	
2433.0	30 1/2"x9 5/8"	6.7	3.5	50	0.25	0.27	NO
24310.2	30 3/4"x9 5/8"	13.4	7	50	0.25	0.27	NO
3046	38 1/2"x57 5/8"	10.8	5.7	50	0.25	0.27	YES
3046.2	76 3/4"x57 5/8"	71.6	11.4	50	0.25	0.27	YES
2422.0	30 1/2"x37 5/8"	4.8	2.5	50	0.25	0.27	NO
2430	30 1/2"x41 5/8"	5.5	2.8	50	0.25	0.27	NO

DATA PLATE
 STATE / PFS LABEL LOCATION

DATE-REVISIONS	
02.09.18	PERMIT REVIEW

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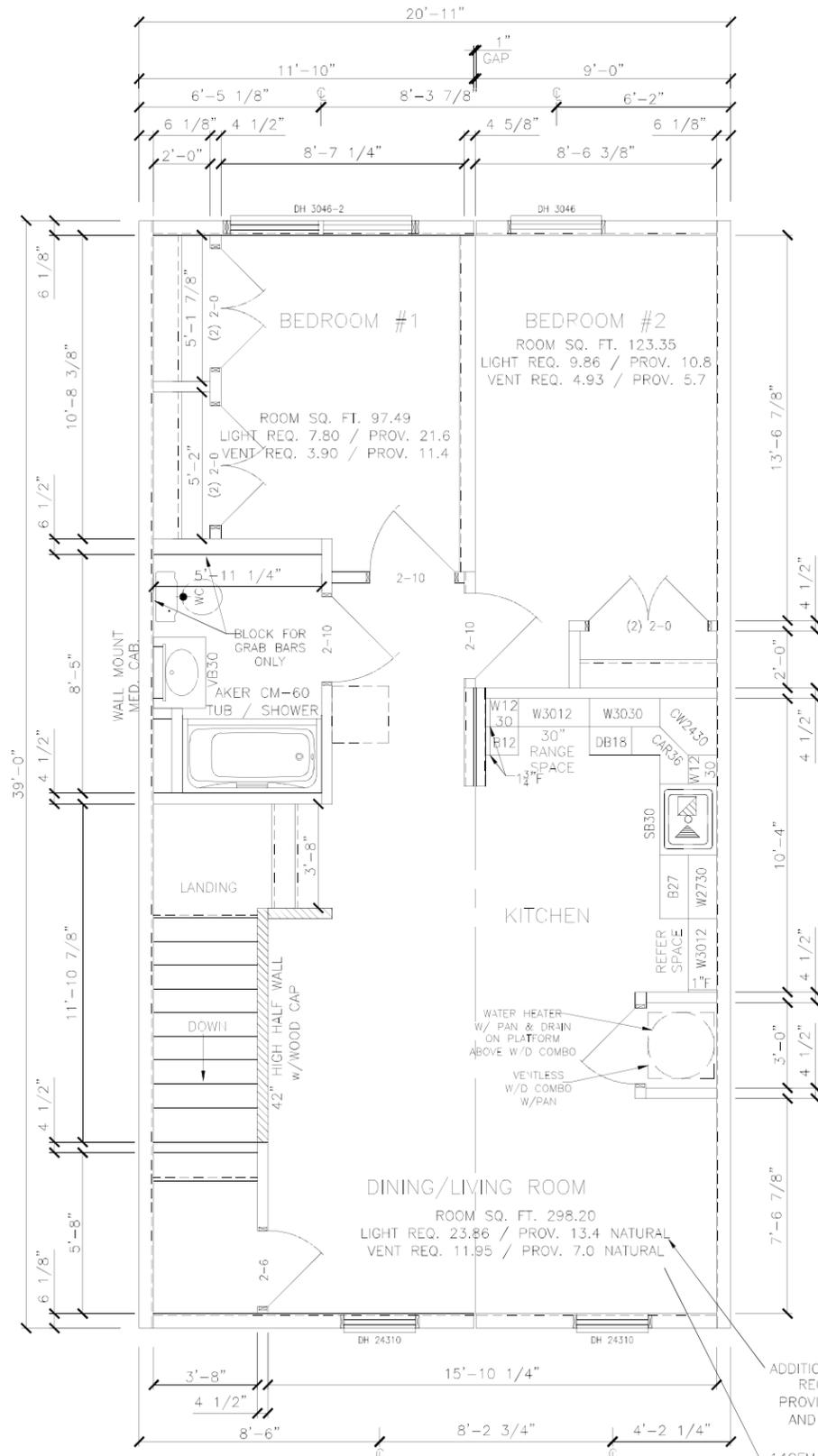
GRAND STREET HOMES
 RESIDENCES & COMMUNITY ROOM
 GRAND STREET, WESTBURY, NY 11590

**2 BEDROOM UNIT
 FIRST FLOOR PLAN
 TYPE A & B**

AS NOTED
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES

NYS APPROVAL BOX

A-14



2-BEDROOM TYPE "B" UNIT - SECOND LEVEL FLOOR PLAN
SCALE: 3/8" = 1'-0"

- DATA PLATE
- STATE / PFS LABEL LOCATION

WINDOW SCHEDULE							
WINDOW MANUFACTURE AND SERIES FLYGEM PRC SER 35 DOUBLE HUNG WITH 3/4" LOW-E2+ GLASS PACKAGE.							
TAG	WINDOW R.O.	LIGHT PROV.	VEYTPROV.	U-F	U-FACTOR	SHGC	FGRESS
2430	30 1/2"x9 5/8"	6.7	3.5	50	0.25	0.27	NO
24310-2	60 3/4"x9 5/8"	13.4	7	50	0.25	0.27	NO
3046	38 1/2"x57 5/8"	10.8	5.7	50	0.25	0.27	YFS
3046-2	76 3/4"x57 5/8"	21.6	11.4	50	0.25	0.27	YFS
2420	30 1/2"x37 5/8"	4.8	2.5	50	0.25	0.27	NO
2432	30 1/2"x41 5/8"	5.5	2.8	50	0.25	0.27	NO

ADDITIONAL 188 WATTS OF ARTIFICIAL LIGHT ARE REQUIRED TO MEET LIGHT REQUIREMENT. PROVIDE (3) 60W BULBS IN LIVING RM LIGHT AND (1) 60 WATT BULB IN KITCHEN LIGHT. TOTAL WATTS PROVIDED = 240
14CFM OF ARTIFICIAL VENT REQ. RANGE HOOD PROVIDES 190 CFM



DATE-REVISIONS	
02.04.16	PERMIT REVIEW

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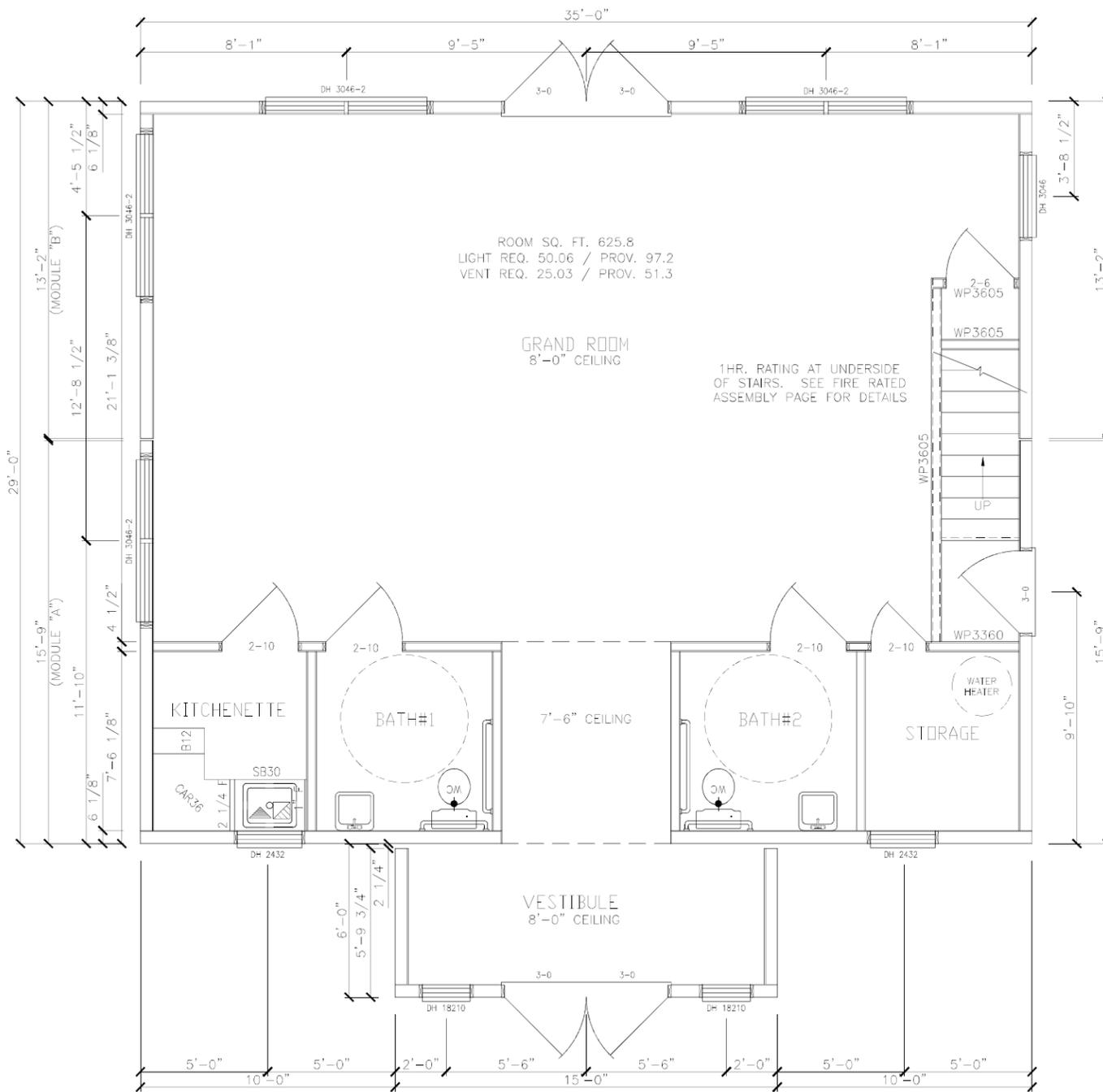
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2 BEDROOM UNIT
SECOND FLOOR PLAN
TYPE B

AS NOTED
SIMPLEX HOMES
SIMPLEX HOMES
SIMPLEX HOMES

A-15



COMMUNITY ROOM – FIRST LEVEL FLOOR PLAN
SCALE: 3/8" = 1'-0"

1

- DATA PLATE
- STATE / PFS LABEL LOCATION

WINDOW SCHEDULE							
WINDOW MANUFACTURE AND SERIES FLYGEM PRC SER 35 DOUBLE HUNG WITH 3/4" LOW-E2+ GLASS PACKAGE.							
TAG	WINDOW R.O.	LIGHT PROV.	VEY. PROV.	U-F. (DPI)	U-FACTOR	SHGC	FGRESS
2432-0	30 1/2"x9 5/8"	6.7	3.5	50	0.25	0.27	NO
2432-2	60 3/4"x9 5/8"	13.4	7	50	0.25	0.27	NO
3046	38 1/2"x57 5/8"	10.8	5.7	50	0.25	0.27	YFS
3046-2	76 3/4"x57 5/8"	21.6	11.4	50	0.25	0.27	YFS
2422-0	30 1/2"x37 5/8"	4.8	2.5	50	0.25	0.27	NO
2432	30 1/2"x41 5/8"	5.5	2.8	50	0.25	0.27	NO



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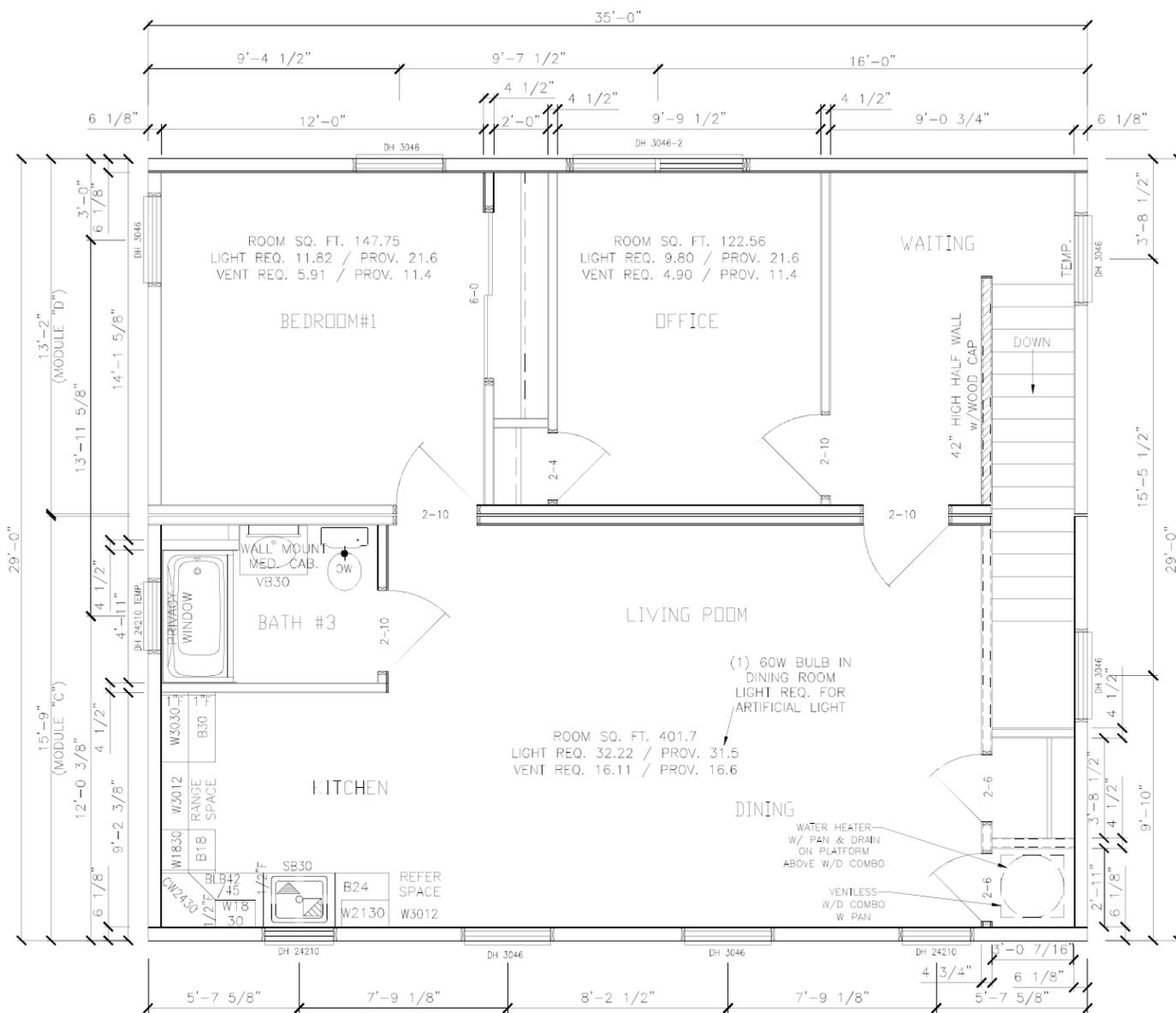
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GRAND STREET HOMES
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GRAND STREET, WESTBURY, NY 11590

COMMUNITY BUILDING
FIRST FLOOR PLAN

AS NOTED	A-16
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	



COMMUNITY BUILDING – SECOND LEVEL FLOOR PLAN

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

1

- DATA PLATE
- STATE / PFS LABEL LOCATION

WINDOW SCHEDULE							
WINDOW MANUFACTURE AND SERIES FLYGEM PRC SER 35 DOUBLE HUNG WITH 3/4" LOW-E2+ GLASS PACKAGE.							
TAG	WINDOW R.O.	LIGHT PROV.	VEY. PROV.	U-F. (DPI)	U-FACTOR	SHGC	FGRESS
2430	30 1/2"x9 5/8"	6.7	3.5	50	0.25	0.27	NO
24310-2	60 3/4"x9 5/8"	13.4	7	50	0.25	0.27	NO
3046	38 1/2"x57 5/8"	10.8	5.7	50	0.25	0.27	YES
3046-2	76 3/4"x57 5/8"	21.6	11.4	50	0.25	0.27	YES
2420	30 1/2"x37 5/8"	4.8	2.5	50	0.25	0.27	NO
2432	30 1/2"x41 5/8"	5.5	2.8	50	0.25	0.27	NO



DATE-REVISIONS

DATE	REVISION
02.04.16	PERMIT REVIEW

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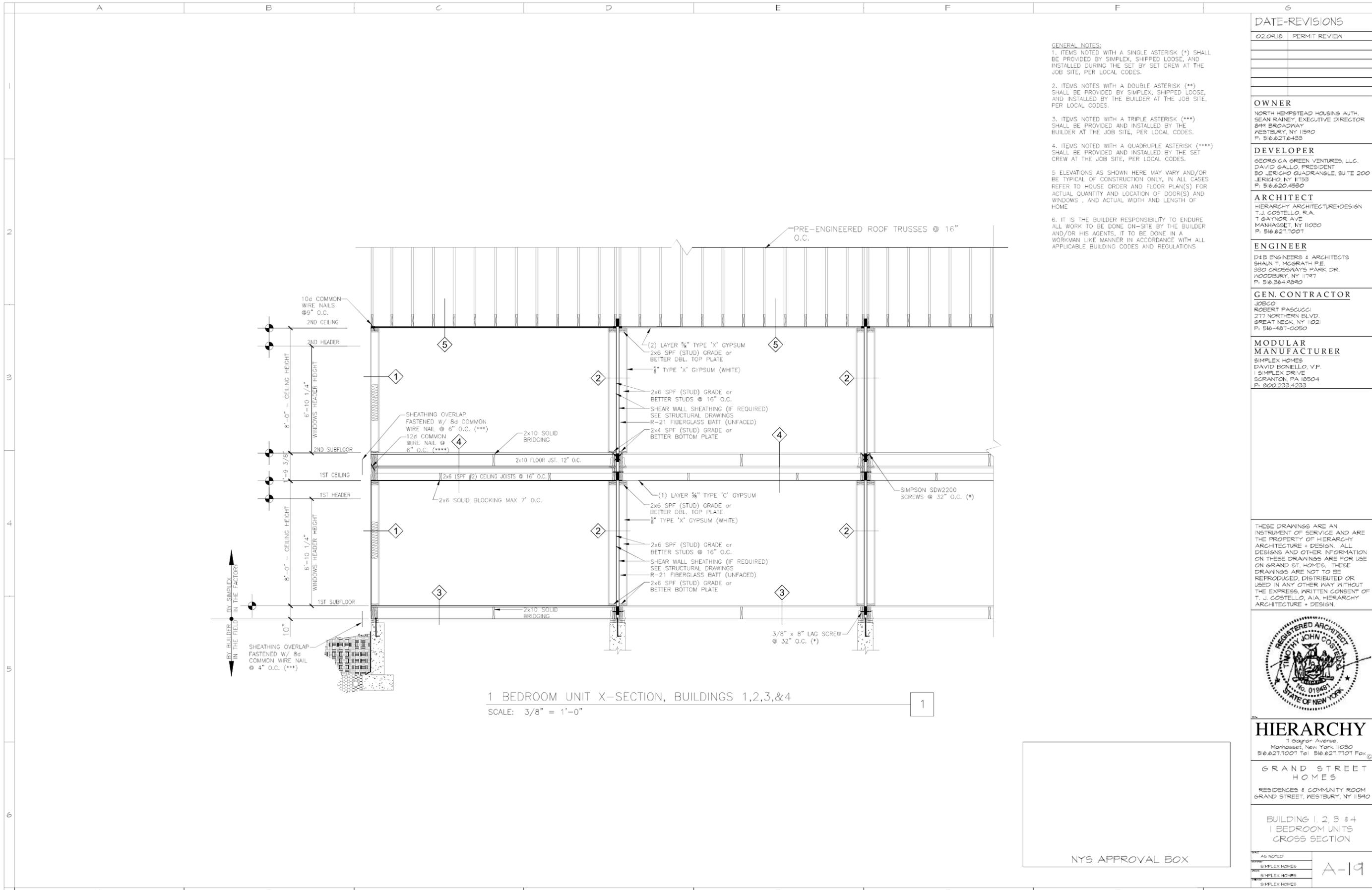
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COMMUNITY BUILDING
 SECOND FLOOR PLAN

AS NOTED
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES

A-17



- GENERAL NOTES:**
- ITEMS NOTED WITH A SINGLE ASTERISK (*) SHALL BE PROVIDED BY SIMPLEX, SHIPPED LOOSE, AND INSTALLED DURING THE SET BY SET CREW AT THE JOB SITE, PER LOCAL CODES.
 - ITEMS NOTED WITH A DOUBLE ASTERISK (**) SHALL BE PROVIDED BY SIMPLEX, SHIPPED LOOSE, AND INSTALLED BY THE BUILDER AT THE JOB SITE, PER LOCAL CODES.
 - ITEMS NOTED WITH A TRIPLE ASTERISK (***) SHALL BE PROVIDED AND INSTALLED BY THE SET CREW AT THE JOB SITE, PER LOCAL CODES.
 - ITEMS NOTED WITH A QUADRUPLE ASTERISK (****) SHALL BE PROVIDED AND INSTALLED BY THE SET CREW AT THE JOB SITE, PER LOCAL CODES.
 - ELEVATIONS AS SHOWN HERE MAY VARY AND/OR BE TYPICAL OF CONSTRUCTION ONLY, IN ALL CASES REFER TO HOUSE ORDER AND FLOOR PLAN(S) FOR ACTUAL QUANTITY AND LOCATION OF DOOR(S) AND WINDOWS, AND ACTUAL WIDTH AND LENGTH OF HOME.
 - IT IS THE BUILDER RESPONSIBILITY TO ENDURE ALL WORK TO BE DONE ON-SITE BY THE BUILDER AND/OR HIS AGENTS, IT TO BE DONE IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND REGULATIONS.

DATE-REVISIONS	
02.09.16	PERMIT REVIEW

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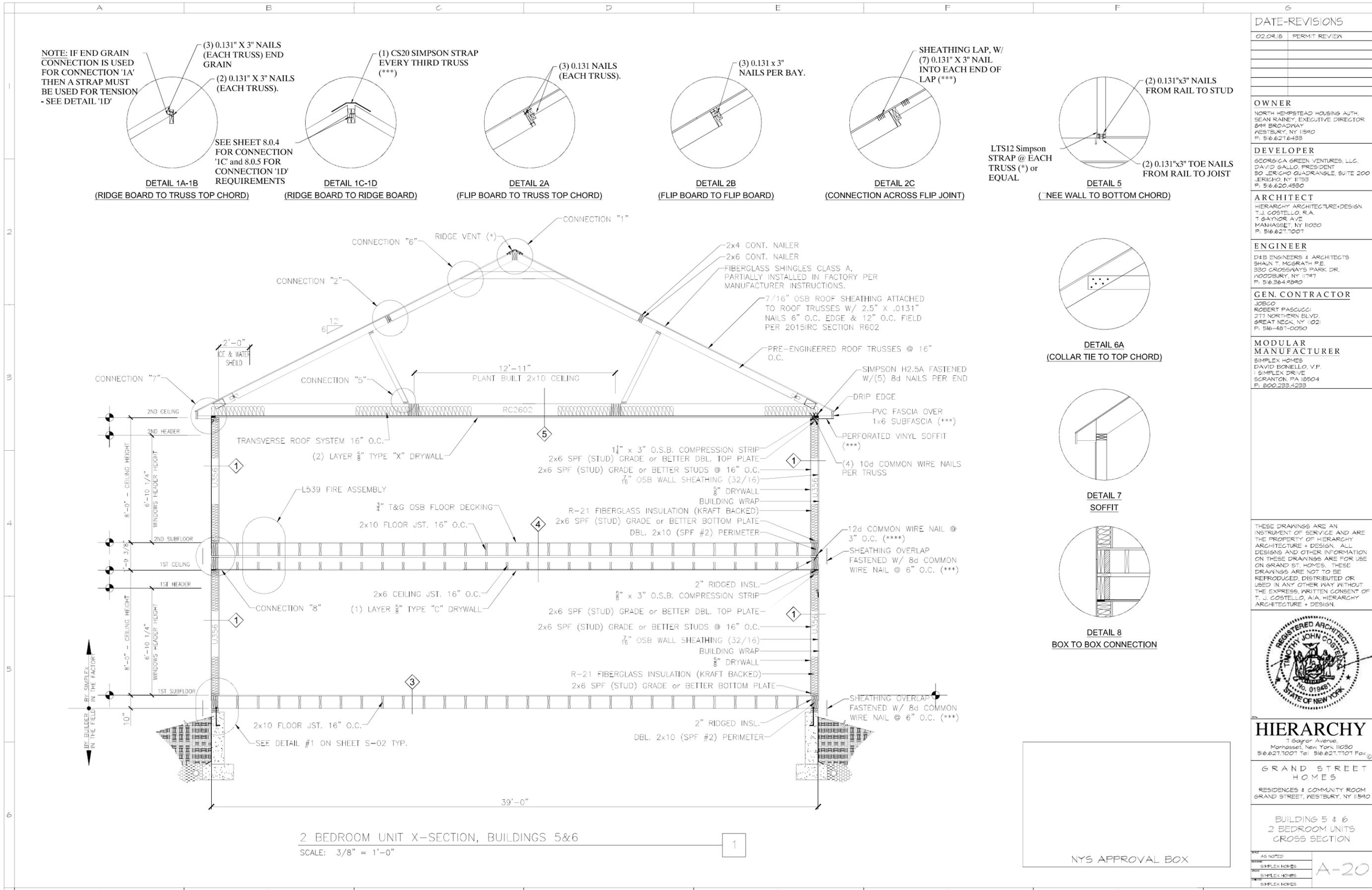
GRAND STREET HOMES
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 GRAND STREET, WESTBURY, NY 11590

BUILDING 1, 2, 3 & 4
 1 BEDROOM UNITS
 CROSS SECTION

REV	AS NOTED	A-19
	SIMPLEX HOMES	
	SIMPLEX HOMES	
	SIMPLEX HOMES	

NYS APPROVAL BOX

1 BEDROOM UNIT X-SECTION, BUILDINGS 1,2,3,&4
 SCALE: 3/8" = 1'-0"



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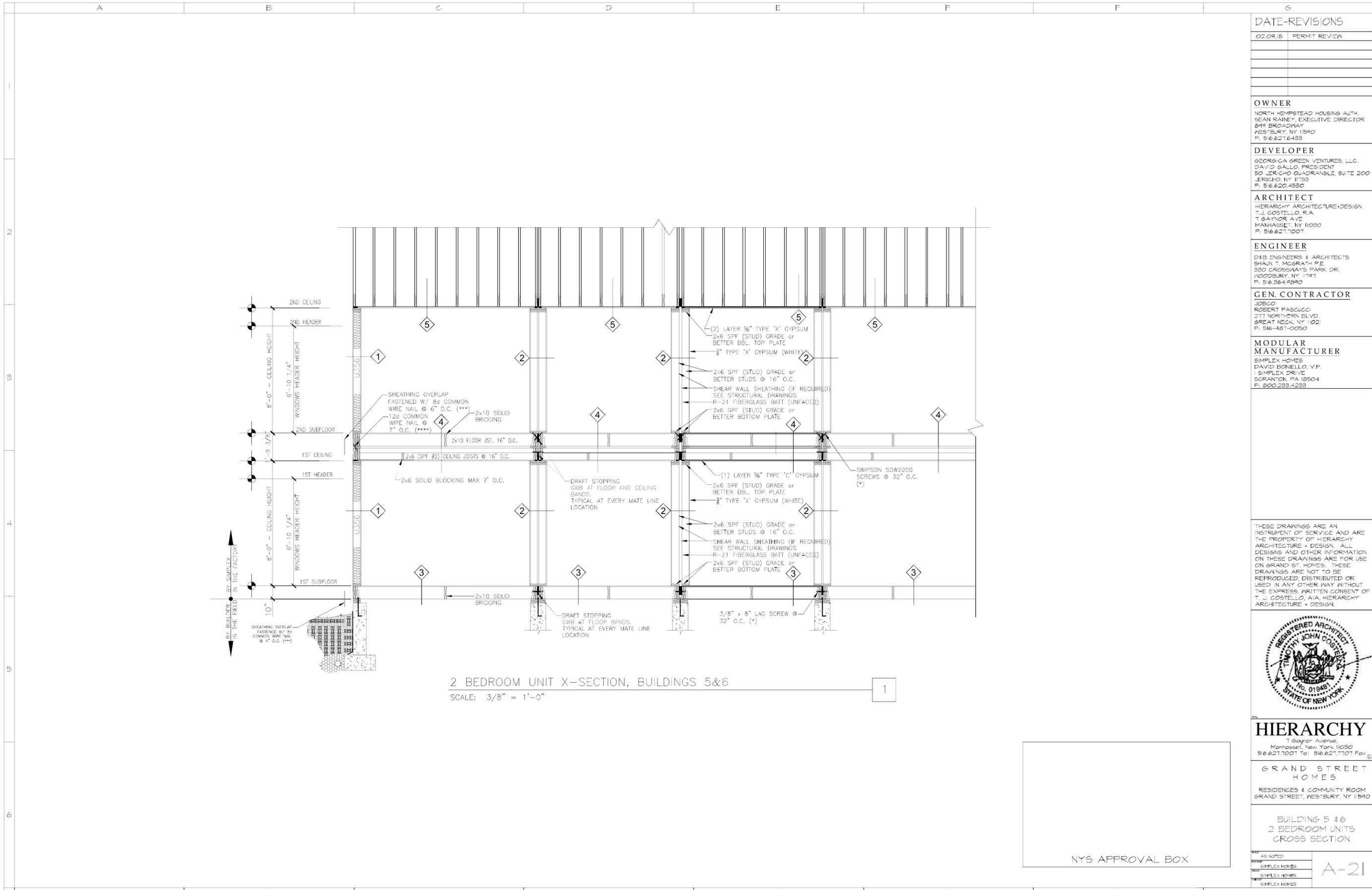
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BUILDING 5 & 6
 2 BEDROOM UNITS
 CROSS SECTION

AS NOTED
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES
A-20





2 BEDROOM UNIT X-SECTION, BUILDINGS 5&6
SCALE: 3/8" = 1'-0"

1

NYS APPROVAL BOX

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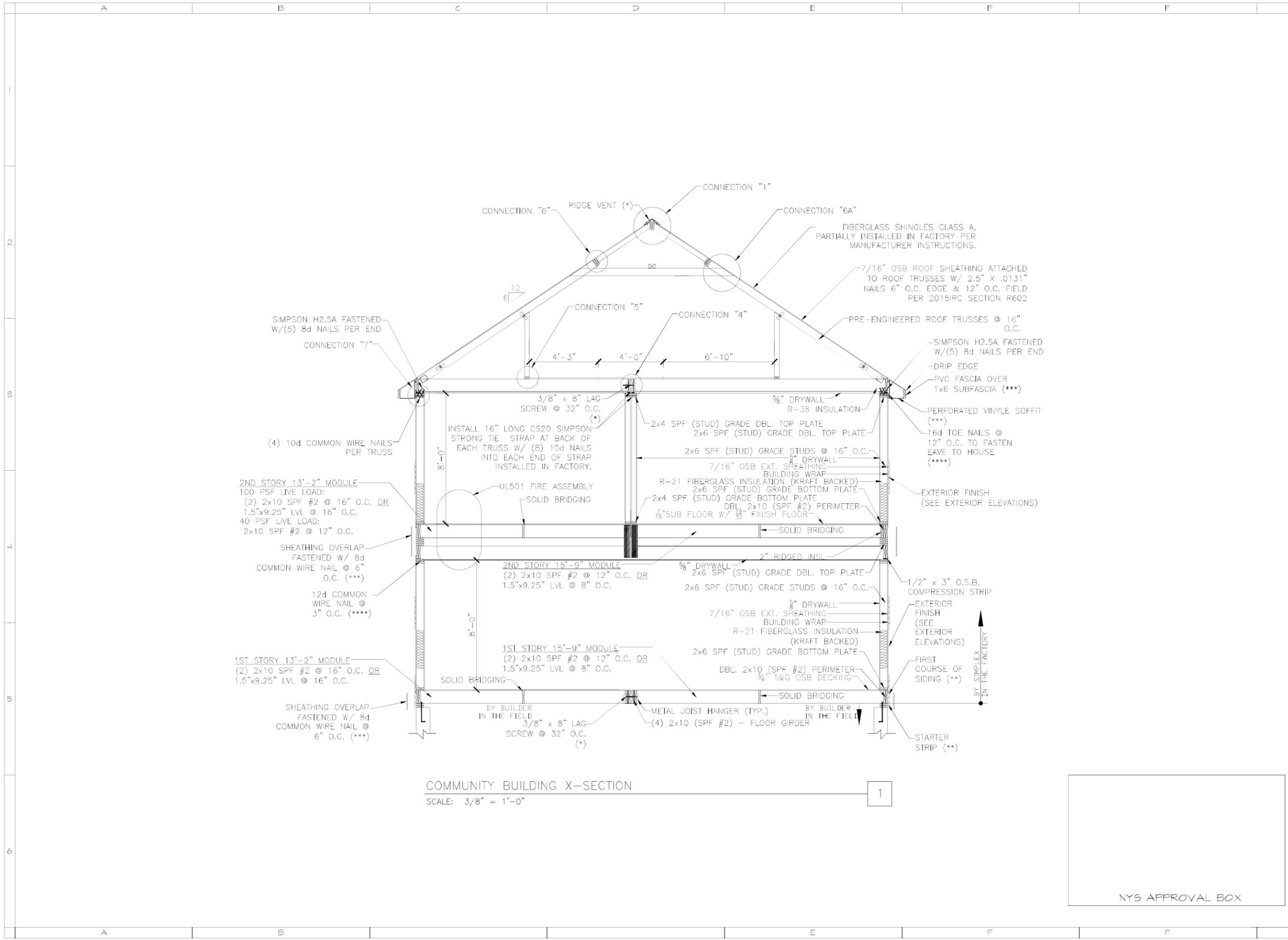
GRAND STREET HOMES

RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

BUILDING 5 & 6
2 BEDROOM UNITS
CROSS SECTION

AS NOTED
SIMPLEX HOMES
SIMPLEX HOMES
SIMPLEX HOMES

A-21



DATE-REVISIONS	
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COMMUNITY BUILDING CROSS SECTION

AS NOTED	A-22
SIMPLEX HOMES	
SIMPLEX HOMES	
SIMPLEX HOMES	

NYS APPROVAL BOX

COMMUNITY BUILDING X-SECTION
 SCALE: 3/8" = 1'-0"

1

WALLS AND EXTERIOR PARTITIONS, WOOD-FRAMED - EXTERIOR WALL

UL DESIGN NO U356	GENERIC	1 HOUR FIRE (INT FACE ONLY)	N/A
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GYPSUM WALLBOARD, WOOD STUDS
 On fire side, one layer 5/8" type X gypsum wallboard applied vertically to one side of 2 x 4 wood studs 16" o.c. with 6d cement coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. Mineral fiber or glass fiber insulation pressure fit to fill wall cavities between studs and plates, faced with kraft paper, min. R-13.
 On exterior side, one layer 7/16" thick, 4" wide wood structural panels, min. grade "C-D" or "sheathing", installed with long dimension parallel or perpendicular to studs, vertical joints centered on studs, horizontal joints lapped with min. 2x4 wood blocking. Attach sheathing to studs with 6d cement coated box nails spaced 6" o.c. at perimeter and 12" o.c. in field. Exterior facings installed over wood sheathing per manufacturers recommendations. See UL design U356 for list of acceptable exterior facings.

Joints in wallboard to be covered with tape and joint compound. Nail heads covered with joint compound. Joints staggered 16" on opposite sides. (LOAD-BEARING)

PROPRIETARY GYPSUM BOARD
 CertainTeed Gypsum, Inc. Type C, Type X, USG Type C
 *Contact the manufacturer for more detailed information on proprietary products.

2

WALLS AND INTERIOR PARTITIONS, WOOD-FRAMED - MATE WALL

GA FILE NO. WP 3370 (mod)	GENERIC	1 HOUR FIRE	45 to 49 STC SOUND *
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GYPSUM WALLBOARD, WOOD STUDS
 One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of double row of 2 x 4 wood studs 16" o.c. on separate plates 1" apart with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 7" o.c.

Joints staggered 16" on opposite sides. Horizontal bracing required at mid-height. (LOAD-BEARING)

Adding insulation to both sides of wall will provide STC-57. STC information from NAIMA Sound Control for Commercial and Residential Buildings.

Thickness: 9 1/2"
 Approx. Weight: 8 psf
 Fire Test: See WP 3605 (UL R1319-4, 6, 6-17-52; UL R2717-39, 5-20-66; UL R3501-52, 3-15-66; UL Design U305)
 Sound Test: UL Design W301 Estimated

3

FLOOR-CEILING SYSTEMS, WOOD-FRAMED

GA FILE NO. FC 5406	GENERIC	1 HOUR FIRE	51 STC / IIC SOUND *
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WOOD JOISTS, GYPSUM WALLBOARD
 Base layer 5/8" type X gypsum wallboard applied at right angles to 2 x 10 wood joists 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 1 7/8" Type W or S drywall screws 12" o.c. at joints and intermediate joists and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" plywood with exterior glue applied at right angles to joists with 8d nails. Ceiling provides one hour fire resistance protection for framing, including trusses.

* Sound information from APA noise-rated systems design / construction guide (form no. W490N), Resilient channel and 1" mineral wool insulation required for sound ratings. Gypsum to be fastened to resilient channel.

INSULATION / RESILIENT CHANNEL / GYPSUM BOARD SUPPLIED AND INSTALLED ON SITE BY BUILDER (**)

Approx. Ceiling Weight: 5 psf
 Fire Test: FM FC 172, 2-25-72; ITS, 6-6-98
 Sound Test: Estimated

WALLS AND INTERIOR PARTITIONS, WOOD-FRAMED - FIRE RATED PARTITION

GA FILE NO. WP 3605	GENERIC	1 HOUR FIRE	30 to 34 STC SOUND
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GYPSUM WALLBOARD, WOOD STUDS
 One layer 5/8" type X plain or predecorated gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to each side of 2 x 4 wood studs 16" o.c. with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. Joints of square edge, bevel edge or predecorated wallboard may be left exposed.

Joints staggered 16" on opposite sides. (LOAD-BEARING)

Thickness: 4 7/8"
 Approx. Weight: 7 psf
 Fire Test: UL R1319-4, -6, 6-17-52; UL R2717-39, 5-20-66; UL R3501-52, 3-15-66; UL Design U305; UL Design W301
 Sound Test: QP 64-6, 2-6-64

4

FLOOR-CEILING SYSTEMS, WOOD-FRAMED

L539	GENERIC	1 HOUR FIRE
------	---------	-------------

WOOD FLOOR, WOOD JOISTS, GYPSUM WALLBOARD
 Subflooring min. 2 1/2" thick 1/4" G wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panel to be perpendicular to the joists with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ring shank nails. Slapnails having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d ring shank nails. Wood joists at min. 2' x 10" spaced 24" o.c. and effectively fireblocked in accordance with local codes. Cross bracing to be a min. 2" x 10" solid blocking. Batts and blankets are optional. Any glass fiber or mineral fiber batt material bearing the UL Classification Marking as to Fire Resistance, Nom. 3 5/8" thick glass fiber batts having a min. density of 0.6 pcf fireblocked between joists on underside of subfloor. When unfaced batts are used, batts secured in place with steel retainer wires consisting of nominal 20-30" lengths of 6.000" diameter steel wire with "toothed" ends. Retainer wires pressed into joint cavity, against underside of insulation, spanning between and fitting into the joists on both ends. Retainer wires spaced max. 12" O.C. When faced batts are used, batts secured to joists on both sides with staples spaced max. 12" O.C. Rattens to be nominal 2" x 8", gypsum board* to be min. 5/8" thick, 4" wide gypsum board installed with long dimension perpendicular to ratters with end joints located under bottom of ratters. End joints in adjacent rows shall be staggered on adjacent joists. Gypsum board secured with 1 7/8" long 6d cement coated cooler nails or 1 3/8" long No. 6 Type S bugle head steel screws, spaced 7" O.C. along the edges and in the field.

PROPRIETARY GYPSUM BOARD
 CertainTeed Gypsum, Inc. - Type FRFC, Type C
 United States Gypsum Co. - Types C, FRX
 *Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

5

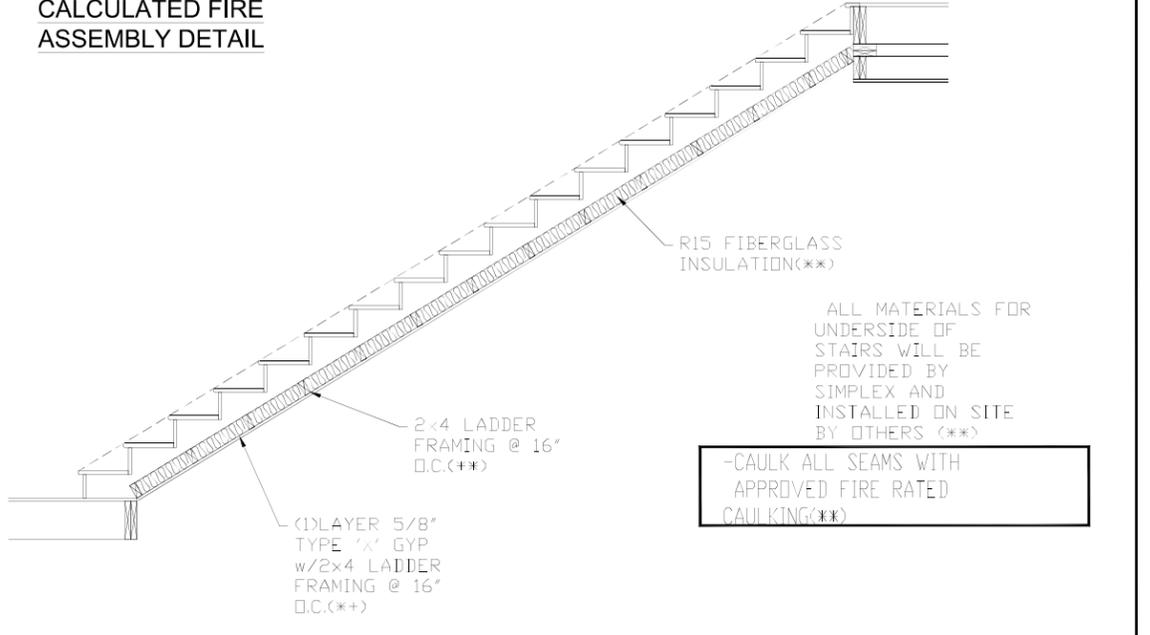
ROOF-CEILING SYSTEMS

GA FILE NO. RC 2602	GENERIC	1 HOUR FIRE
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WOOD TRUSSES, GYPSUM WALLBOARD
 Base layer 5/8" type X gypsum wallboard applied at right angles to wood trusses 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to trusses with 1 7/8" Type W or S drywall screws 12" o.c. at joints and intermediate trusses and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood trusses supporting 1/2" wood structural panels applied at right angles to trusses with 8d nails. Appropriate roof covering.

Approx. Ceiling Weight: 5 psf
 Fire Test: FM FC 172, 2-25-72; ITS, 6-6-98

UNDER SIDE OF STAIRS CALCULATED FIRE ASSEMBLY DETAIL



CEILING TYPE	ASSEMBLY DESCRIPTION
 TOTAL CALCULATED ASSEMBLY = 75 MIN.	CALCULATED FIRE RATED ASSEMBLY- ONE HOUR FIRE PROTECTION 5/8" TYPE 'X' GYP IBC TABLE 721.6.2(1) - 40 MIN x (1) LAYERS = 40 MIN 2x4 JOISTS SPACED 16" O.C. IBC TABLE 721.6.2(2) - 20 MIN R15 FULL CAVITY FIBERGLASS INSULATION IBC TABLE 721.6.2(5) - 15 MIN WOOD STUDS, GYPSUM WALLBOARD FACE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO FRAMING WITH #6x1-7/8" TYPE W OR S DRYWALL SCREWS @ 7" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATE FRAMING.** ** FASTENING PER 2015 IBC TABLE 2508.5

UNDER SIDE OF STAIRS FIRE ASSEMBLY DETAIL

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MISC. ASSEMBLY DETAILS

AS NOTED
 SIMPLEX HOMES
 SIMPLEX HOMES
 SIMPLEX HOMES

A-23

CERTAINTED LANDMARK SOLARS GOLD WEATHERED WOOD® ROOF CONTINUOUS RIDGE VENT BLIND FLASHING AT ALL DORMERS

ALL TRIM TO BE AZEK OR APPROVED EQUAL 4" CORNER BOARD AZEK OR APPROVED EQUAL DOUBLE HUNG WINDOW W/ PAINTED BLACK MELAMINE BEHIND HARDIEPLANK LAP SIDING COLOR: MONTEREY WHITE ALUMINUM 5" GUTTER

SOLID RAMS GROWN AZEK OR APPROVED EQUAL GUIDED TO FASCIA BOARD 10" FASCIA BOARD AZEK OR APPROVED EQUAL VINYL PANELLED SHUTTERS COLOR: TUXEDO GREY RIB 1" HARDIEPLANK LAP SIDING COLOR: MONTEREY

BLIND FLASHING AT ALL PORTICOS CERTAINTED LANDMARK SOLARS GOLD WEATHERED WOOD® ROOF EXTERIOR LIGHT FIXTURE # 10" AFF. 10" SQUARE COLUMN AZEK OR APPROVED EQUAL 6" CORNER BOARD AZEK OR APPROVED EQUAL WHITE ALUMINUM 5" LEADER W/ SCUPPER

PORTICO COLUMNS TO 5" OR CONCRETE PIERLS BELOW

NOTE: ALL AZEK TRIM TO BE PAINTED WHITE



① BUILDING #1 FRONT ELEVATION
SCALE: 1/2" = 1'-0"

CERTAINTED LANDMARK SOLARS GOLD WEATHERED WOOD® ROOF CONTINUOUS RIDGE VENT

WHITE ALUMINUM 5" GUTTER

SOLID RAMS GROWN AZEK OR APPROVED EQUAL GUIDED TO FASCIA BOARD 10" FASCIA BOARD AZEK OR APPROVED EQUAL (2) DOUBLE HUNG WINDOWS MALLED TOGETHER W/ 4" AZEK TRIM OR APPROVED EQUAL 1" HARDIEPLANK LAP SIDING COLOR: MONTEREY

(2) DOUBLE HUNG WINDOWS MALLED TOGETHER W/ 4" AZEK TRIM OR APPROVED EQUAL 6" CORNER BOARD AZEK OR APPROVED EQUAL A/C CONDENSER ON CONCRETE PAD COORDINATE LOCATION W/ ENGINEER

WHITE ALUMINUM 5" LEADER W/ SCUPPER



② BUILDING #1 REAR ELEVATION
SCALE: 1/2" = 1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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**BUILDING #1
FRONT & REAR
ELEVATIONS**

DATE	AS NOTED	A-24
DESIGNED BY	T.J.C.	
CHECKED BY	P.S.M.	
DATE	T.J.C.	

NYS APPROVAL BOX

CONTINUOUS RIDGE VENT
 CERTAINTED LANDMARK SOLARIS GOLD 'WEATHERED WOOD' ROOF
 BLIND FLASHING AT ALL DORMERS
 ALL TRIM TO BE AZEK OR APPROVED EQUAL
 4" CORNERBOARD
 AZEK OR APPROVED EQUAL
 DOUBLE HUNG WINDOW IN PAINTED BLACK MELANINE BEHIND
 HARDIEPLANK LAP SIDING COLOR: KHAKI
 WHITE ALUMINUM 5" GUTTER
 SOLID RAMS CROWN AZEK OR APPROVED EQUAL GLEED TO FASCIA BOARD
 10" FASCIA BOARD
 AZEK OR APPROVED EQUAL
 VINYL PANELED SHUTTERS COLOR: TUNED GREY #8
 HARDIEPLANK LAP SIDING COLOR: MONTEREY
 BLIND FLASHING AT ALL PORTICOS
 CERTAINTED LANDMARK SOLARIS GOLD 'WEATHERED WOOD' ROOF
 EXTERIOR LIGHT FIXTURE
 WALL MOUNTED EXTERIOR LIGHT FIXTURE # 70" A.F.F.
 1" SQUARE COLUMN
 AZEK OR APPROVED EQUAL
 6" CORNER BOARD
 AZEK OR APPROVED EQUAL
 WHITE ALUMINUM 5" LEADER IN SCUPPER
 PORTICO COLUMNS TO SIT ON CONCRETE PIERS BELOW
 NOTE: ALL AZEK TRIM TO BE PAINTED WHITE



RIDGE 8'-6"
 BOTTOM OF CEILING 8'-0"
 TOP OF FINISHED FLOOR 1'-11 1/2"
 BOTTOM OF CEILING 8'-0"
 T.O. FIRST FLOOR / GRADE 1'-0"
 BOTTOM OF RIM JOIST 8'-0"
 TOP OF SLAB 1'-0"
 BOTTOM OF FOOTING 1'-0"

1 BUILDING #3 FRONT ELEVATION
 SCALE: 1/4" = 1'-0"

CONTINUOUS RIDGE VENT
 CERTAINTED LANDMARK SOLARIS GOLD 'WEATHERED WOOD' ROOF
 BLIND FLASHING AT ALL DORMERS
 ALL TRIM TO BE AZEK OR APPROVED EQUAL
 4" CORNERBOARD
 AZEK OR APPROVED EQUAL
 DOUBLE HUNG WINDOW IN PAINTED BLACK MELANINE BEHIND
 HARDIEPLANK LAP SIDING COLOR: MONTEREY
 WHITE ALUMINUM 5" GUTTER
 SOLID RAMS CROWN AZEK OR APPROVED EQUAL GLEED TO FASCIA BOARD
 10" FASCIA BOARD
 AZEK OR APPROVED EQUAL
 (2) DOUBLE HUNG WINDOWS MILLED TOGETHER W/ 4" AZEK TRIM OR APPROVED EQUAL
 6" CORNER BOARD
 AZEK OR APPROVED EQUAL
 A/C CONDENSER ON CONCRETE PAD
 WHITE ALUMINUM 5" LEADER IN SCUPPER



RIDGE 8'-6"
 BOTTOM OF CEILING 8'-0"
 TOP OF FINISHED FLOOR 1'-11 1/2"
 BOTTOM OF CEILING 8'-0"
 T.O. FIRST FLOOR / GRADE 1'-0"
 BOTTOM OF RIM JOIST 8'-0"
 TOP OF SLAB 1'-0"
 BOTTOM OF FOOTING 1'-0"

2 BUILDING #3 FRONT ELEVATION
 SCALE: 1/4" = 1'-0"

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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BUILDING #3
 FRONT & REAR
 ELEVATIONS



AS NOTED
 T.J.C.
 P.S.M.
 T.J.C.

A-26



① BUILDING #4 FRONT ELEVATION
SCALE: 1/2" = 1'-0"



② BUILDING #4 FRONT ELEVATION
SCALE: 1/2" = 1'-0"

DATE-REVISIONS	
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BUILDING #4 FRONT & REAR ELEVATIONS

NYS APPROVAL BOX

AS NOTED
T.J.C.
P.S.M.
T.J.C.
A-27



1 BUILDING #5 FRONT (STREET) ELEVATION
SCALE: 1/4" = 1'-0"

2 BUILDING #5 FRONT (STREET) ELEVATION
SCALE: 1/4" = 1'-0"

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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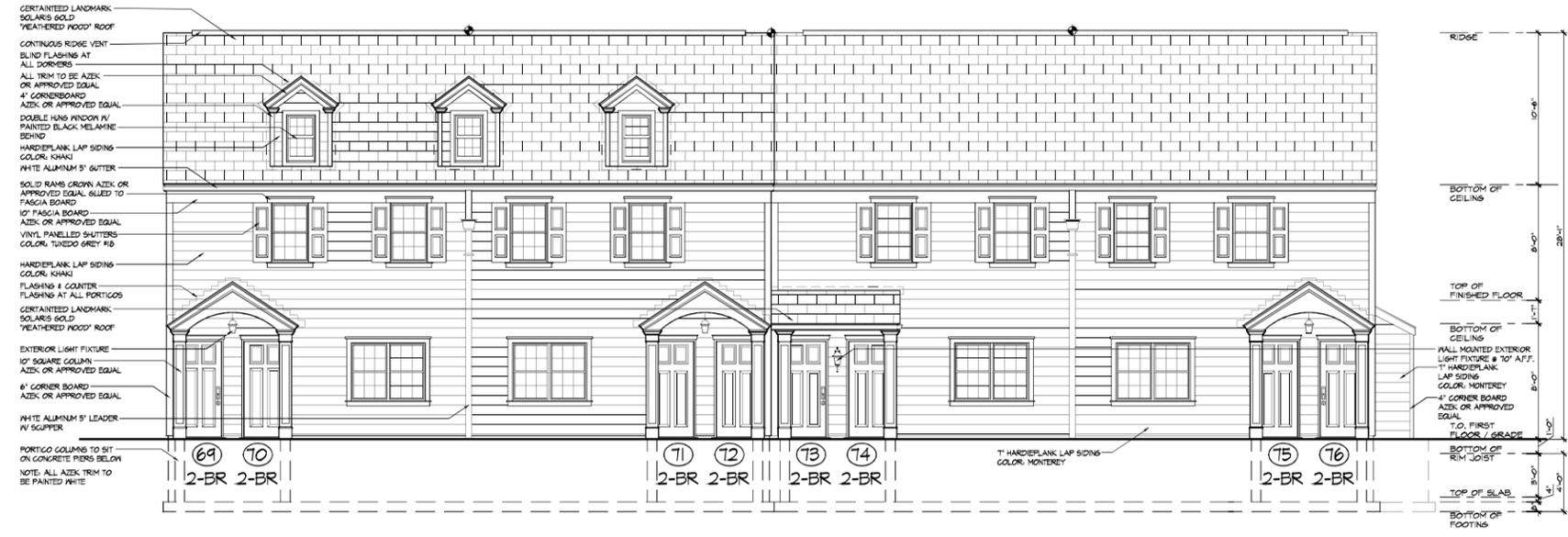
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GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

BUILDING #5 FRONT & REAR ELEVATIONS

NYS APPROVAL BOX

AS NOTED	A-28
T.J.C.	
K.S.M.	
T.J.C.	



1 BUILDING #6 FRONT (STREET) ELEVATION
SCALE: 1/2" = 1'-0"



2 BUILDING #6 FRONT (STREET) ELEVATION
SCALE: 1/2" = 1'-0"

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL

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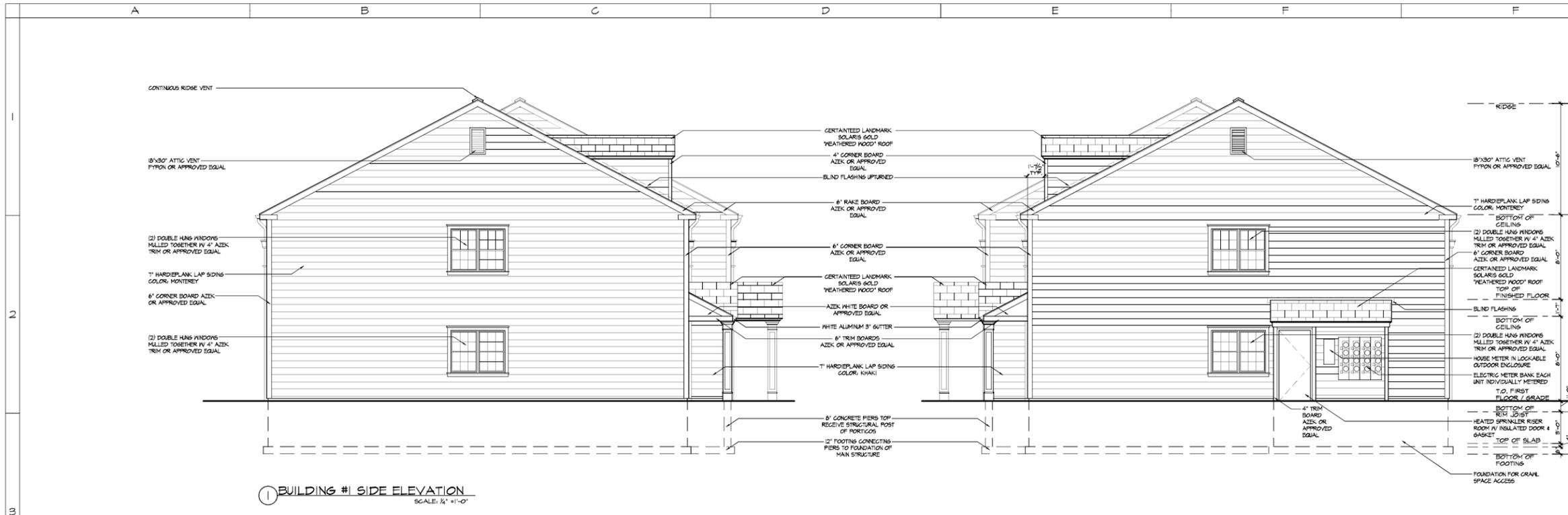
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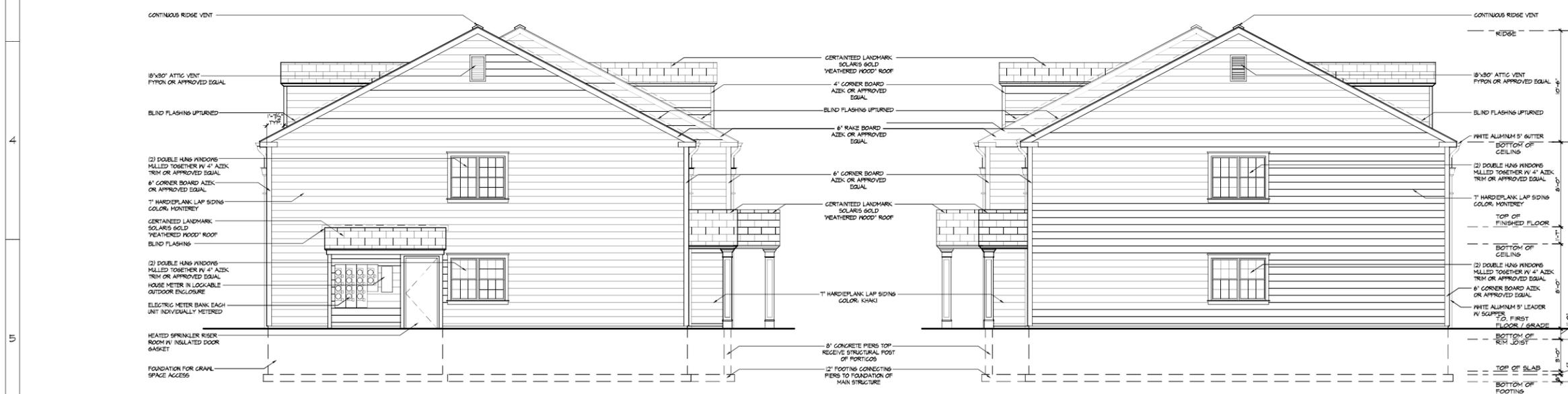
BUILDING #6 FRONT & REAR ELEVATIONS

NYS APPROVAL BOX

AS NOTED	A-29
T.J.C.	
P.S.M.	
T.J.C.	



1 BUILDING #1 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 BUILDING #2 SIDE ELEVATION
SCALE: 1/4" = 1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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BUILDING #1 & #2
SIDE ELEVATIONS

AS NOTED

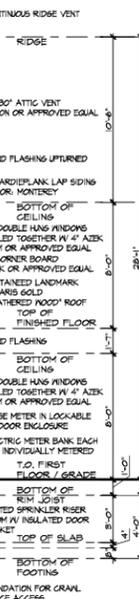
T.J.C.
K.S.M.
T.J.C.

A-30

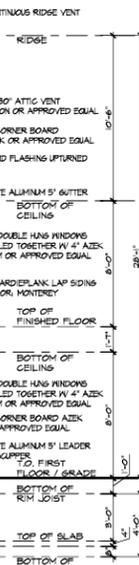
NYS APPROVAL BOX



1 BUILDING #3 SIDE ELEVATION
 SCALE: 1/4" = 1'-0"



2 BUILDING #4 SIDE ELEVATION
 SCALE: 1/4" = 1'-0"



DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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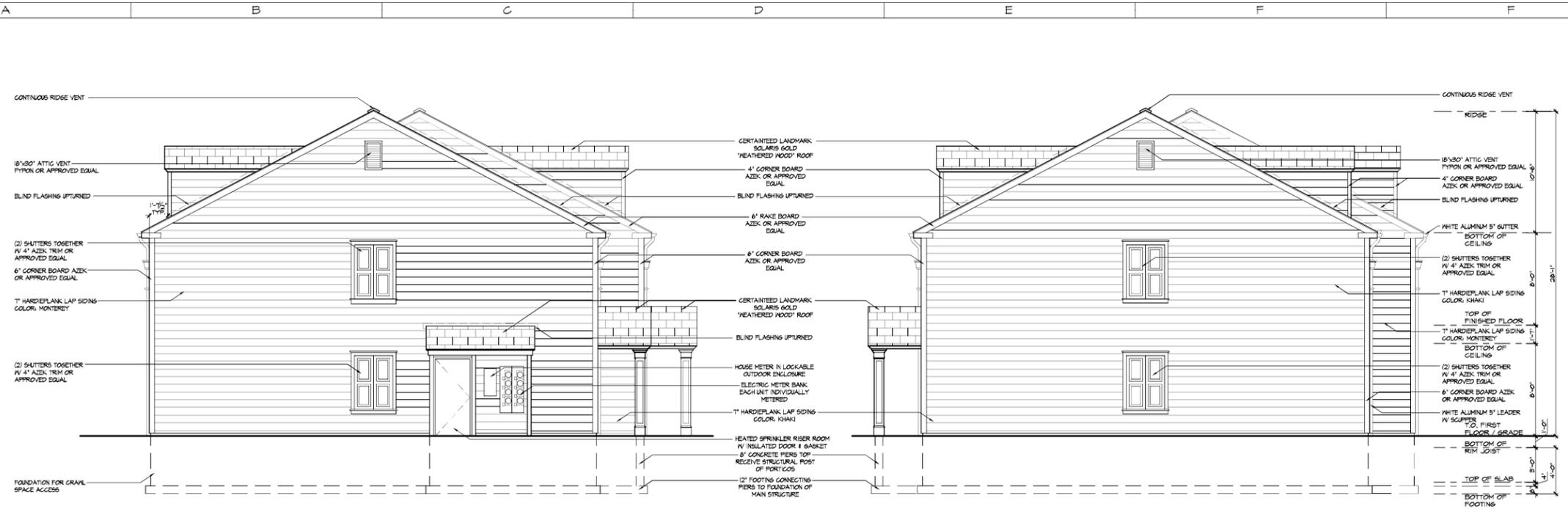
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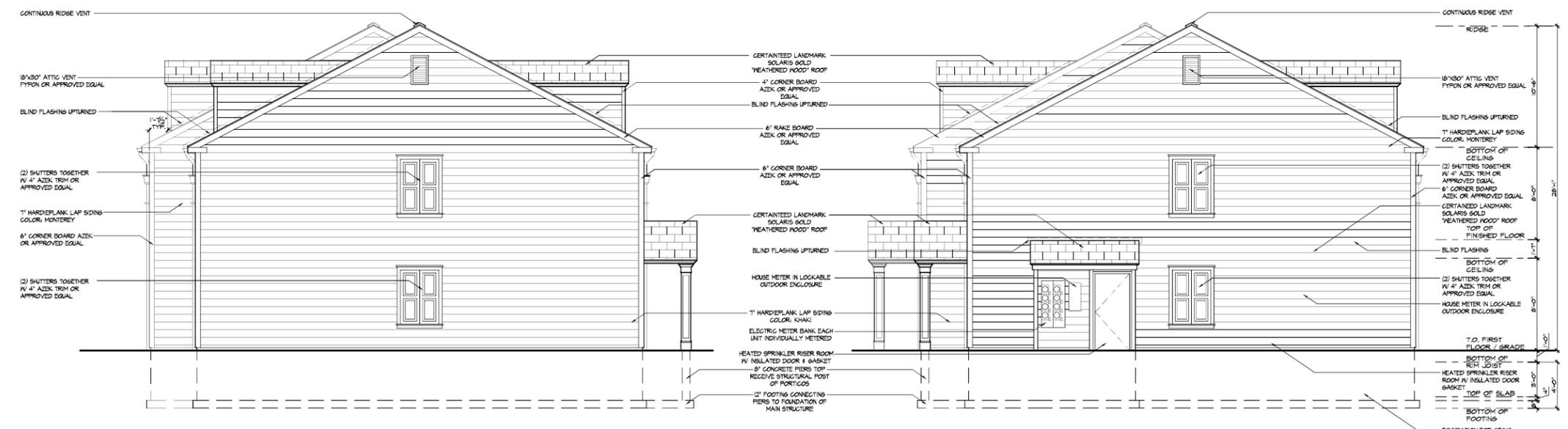
**BUILDING #3 & #4
 SIDE ELEVATIONS**

AS NOTED	A-31
T.J.C.	
P.S.M.	
T.J.C.	





1 BUILDING #5 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 BUILDING #6 SIDE ELEVATION
SCALE: 1/4" = 1'-0"

DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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**BUILDING #5 & #6
SIDE ELEVATIONS**

AS NOTED	A-32
T.J.C.	
P.S.M.	
T.J.C.	

NYS APPROVAL BOX



DATE-REVISIONS	
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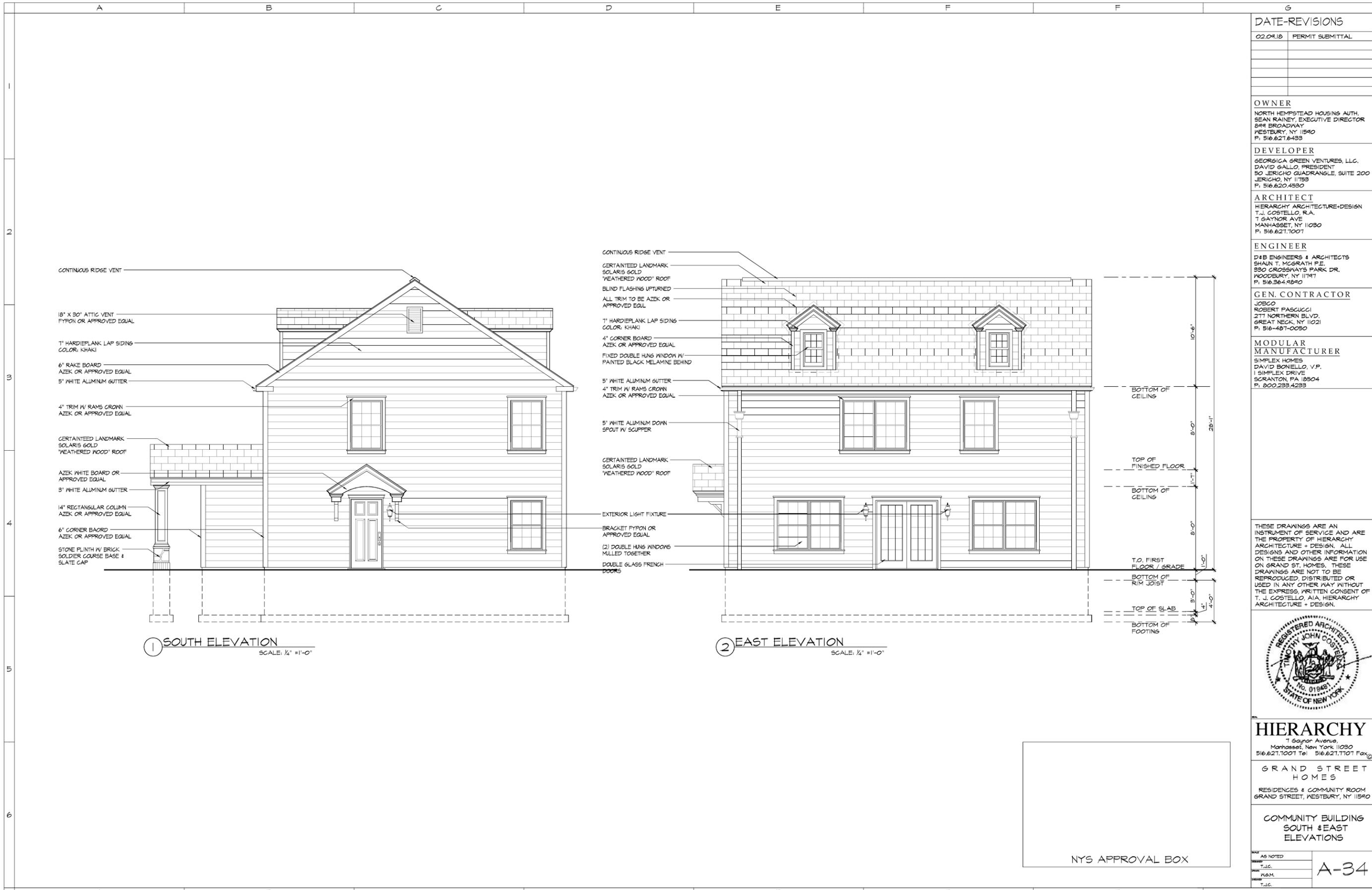
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Manhasset, New York 11030
516.621.7001 Tel | 516.621.7101 Fax

GRAND STREET HOMES
RESIDENCES & COMMUNITY ROOM
GRAND STREET, WESTBURY, NY 11590

COMMUNITY BUILDING
NORTH & WEST ELEVATIONS



AS NOTED	A-33
T.J.C.	
K.S.M.	
T.J.C.	

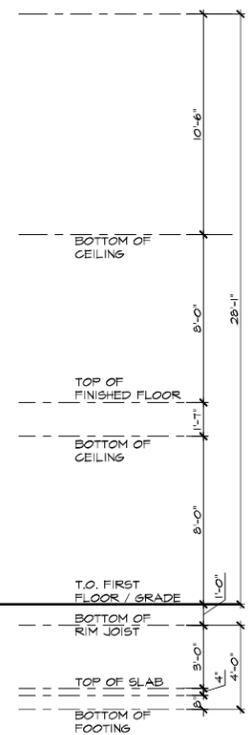


- CONTINUOUS RIDGE VENT
- 18" X 30" ATTIC VENT
FYRON OR APPROVED EQUAL
- 7" HARDBOARD LAP SIDING
COLOR: KHAKI
- 6" RAKE BOARD
AZEK OR APPROVED EQUAL
- 5" WHITE ALUMINUM GUTTER
- 4" TRIM W/ RAMS CROWN
AZEK OR APPROVED EQUAL
- CERTAINTED LANDMARK
SOLARIS GOLD
"WEATHERED WOOD" ROOF
- AZEK WHITE BOARD OR
APPROVED EQUAL
- 3" WHITE ALUMINUM GUTTER
- 14" RECTANGULAR COLUMN
AZEK OR APPROVED EQUAL
- 6" CORNER BOARD
AZEK OR APPROVED EQUAL
- STONE FLINTH W/ BRICK
SOLDIER COURSE BASE &
SLATE CAP

- CONTINUOUS RIDGE VENT
- CERTAINTED LANDMARK
SOLARIS GOLD
"WEATHERED WOOD" ROOF
- BLIND FLASHING UPTURNED
- ALL TRIM TO BE AZEK OR
APPROVED EQUAL
- 7" HARDBOARD LAP SIDING
COLOR: KHAKI
- 4" CORNER BOARD
AZEK OR APPROVED EQUAL
- FIXED DOUBLE HUNG WINDOW W/
PAINTED BLACK MELAMINE BEHIND
- 5" WHITE ALUMINUM GUTTER
- 4" TRIM W/ RAMS CROWN
AZEK OR APPROVED EQUAL
- 5" WHITE ALUMINUM DOWN
SPOUT W/ SCUPPER
- CERTAINTED LANDMARK
SOLARIS GOLD
"WEATHERED WOOD" ROOF
- EXTERIOR LIGHT FIXTURE
- BRACKET FYRON OR
APPROVED EQUAL
- (2) DOUBLE HUNG WINDOWS
MULLED TOGETHER
- DOUBLE GLASS FRENCH
DOORS

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

2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



DATE-REVISIONS	
02.09.18	PERMIT SUBMITTAL

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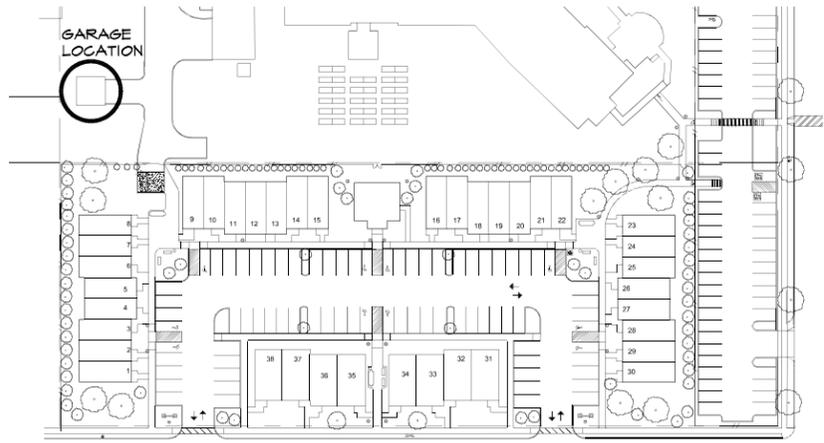
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COMMUNITY BUILDING
SOUTH & EAST
ELEVATIONS

NYS APPROVAL BOX

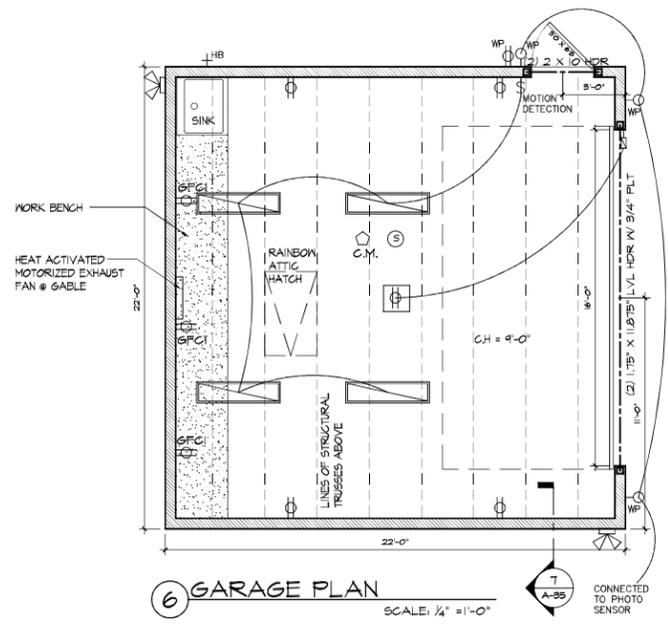
SCALE	AS NOTED	A-34
DESIGNED BY	T.J.C.	
CHECKED BY	K.S.M.	
DATE	T.J.C.	



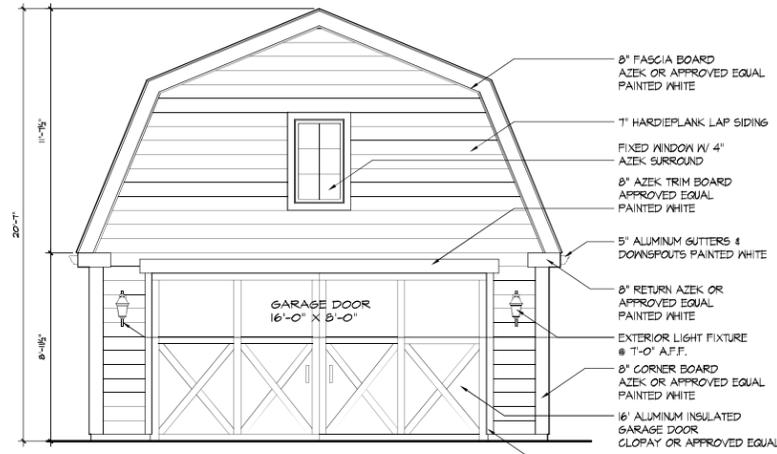
1 KEY PLAN
N.T.S.

ELECTRICAL LEGEND
ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH PART VIII OF THE RESIDENTIAL CODE OF NEW YORK STATE.

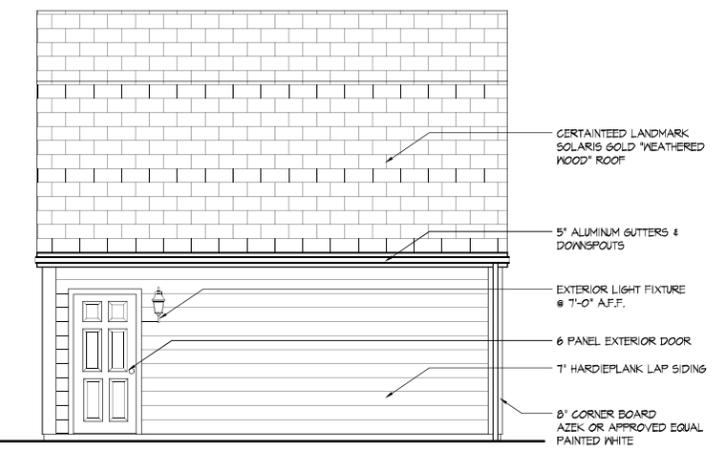
⊞ SWITCH	⚡ EXTERIOR MOTION - DETECTION LIGHTS
⊞ DUPLEX OUTLET (6" A.F.F. U.O.N.)	⊞ SCOFF (66" A.F.F.)
WF WATERPROOF OUTLET	⊞ FLUORESCENT (10 X 40)
⊞ FLOOR OR CEILING MOUNT DUPLEX OUTLET	⊞ CARBON MONOXIDE DETECTOR (HARD WIRED)
⊞ KEYPAD ENTRY/REMOTE SENSOR	⊞ SMOKE DETECTION (ION & HEAT HARD WIRED)
GFCI GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET	



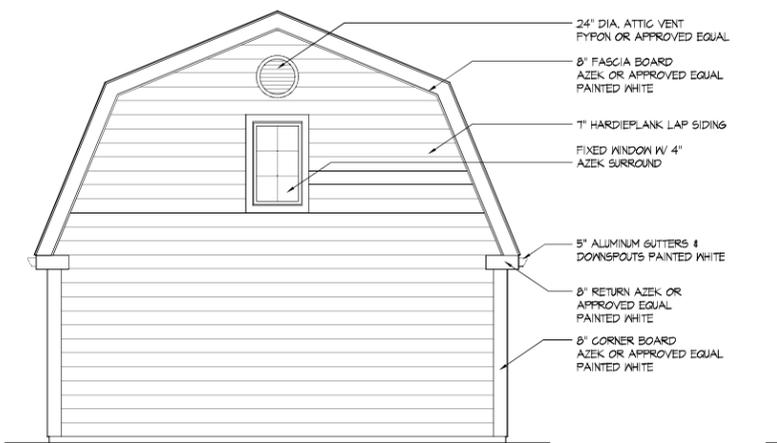
6 GARAGE PLAN
SCALE: 1/4" = 1'-0"



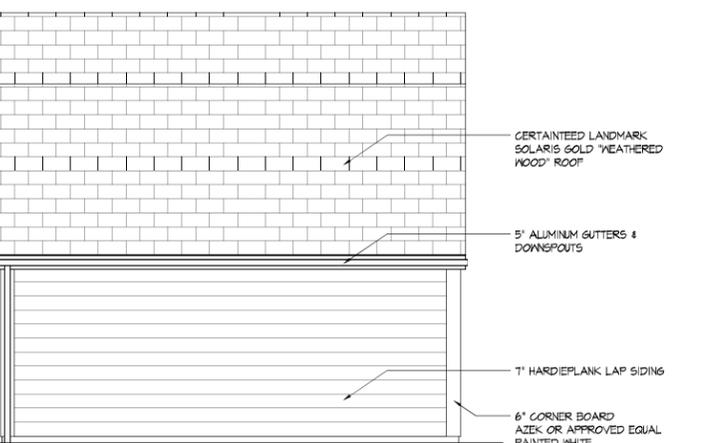
2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



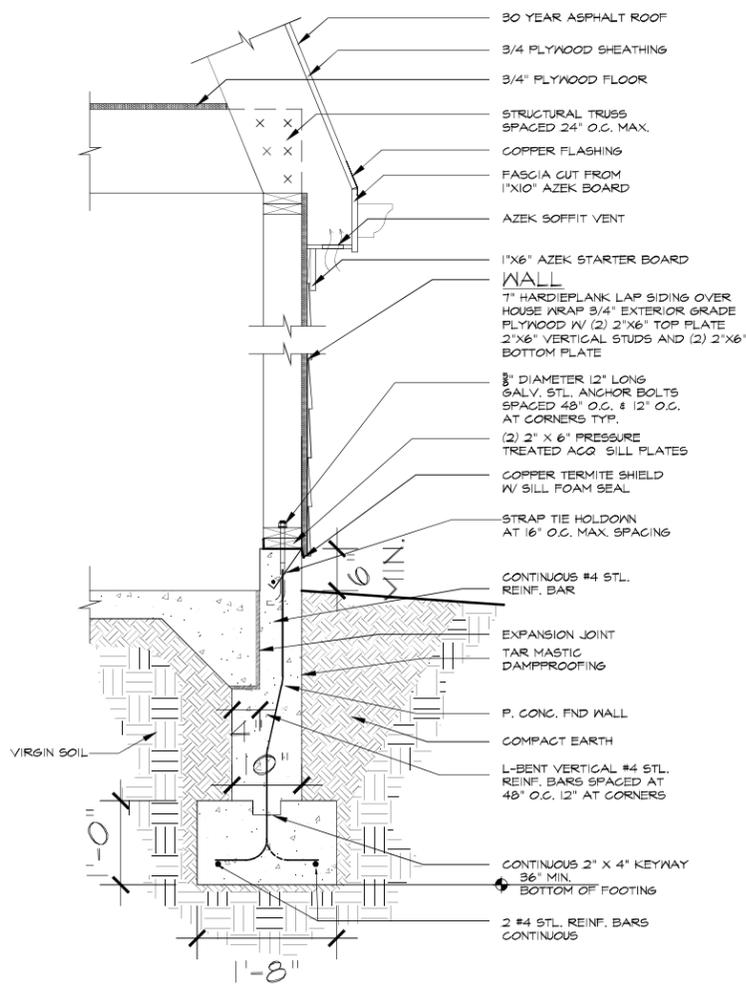
3 EAST ELEVATION
SCALE: 1/4" = 1'-0"



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



5 WEST ELEVATION
SCALE: 1/4" = 1'-0"



7 FOOTING DETAIL
1" = 1'-0"

DATE-REVISIONS

02.09.18	PERMIT SUBMITTAL
----------	------------------

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MAINTENANCE GARAGE PLANS, ELEVATIONS, & DETAILS

AS NOTED
T.J.C.
K.S.M.
T.J.C.

A-35

GENERAL NOTES

- IT IS THE INTENTION OF THIS CONTRACT TO FOLLOW THE LATEST NASSAU COUNTY AND NYS DOT STANDARD SPECIFICATIONS, LATEST REVISIONS, FOR THE CONSTRUCTION OF HIGHWAYS AND BRIDGES, PARTS 2, 3 AND 4, EXCEPT WHERE SPECIFICALLY NOTED AS MODIFIED AND AMENDED IN THE CONTRACT SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ANY MUNICIPALITY OR UTILITY HAVING JURISDICTION WITHIN THE LIMITS OF THIS PROJECT, WHERE NECESSARY.
- ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY NO LATER THAN 48 HOURS PRIOR TO ANY EXCAVATION THAT MAY AFFECT THAT UTILITY. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.
- BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE PROPOSED EXCAVATION WORK WITH THE OWNERS OF THE UTILITIES INVOLVED.
- BACKFILL AT ANY EXCAVATIONS SHALL BE PLACED IN 6" LIFTS AND SHALL ACHIEVE A COMPACTION NOT LESS THAN 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT FIELD TESTS BE PERFORMED BY AN APPROVED LABORATORY TO ASSURE THAT COMPACTION RATE AT VARYING DEPTHS. THE CONTRACTOR SHALL HAVE THE APPROVED LABORATORY REPRESENTATIVE ON-SITE WHEN DIRECTED. THE CONTRACTOR SHALL BEAR ALL COSTS FOR TESTING AND ANY DELAYS THAT RESULT FROM SUCH TESTING.
- EXCAVATIONS SHALL BE CONDUCTED IN COMPLIANCE WITH ALL NEW YORK STATE, OSHA REQUIREMENTS AND OTHER AUTHORITIES HAVING JURISDICTION.
- THE BURNING OF ANY MATERIALS ON-SITE WILL NOT BE PERMITTED.
- WHERE EXISTING CURB, GUTTER, SIDEWALK OR WALK IS TO BE REMOVED, IT SHALL BE SAW CUT OR REMOVED AT THE NEAREST JOINT.
- THE CONTRACTOR SHALL ADJUST ALL MANHOLE FRAMES AND COVERS, VALVE COVERS, WATER VALVE BOXES, DRAINAGE INLETS, AS NECESSARY TO MEET THE SURFACE OF NEW PAVEMENT, LAWN OR WALKWAY AS REQUIRED. THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE RELATED UTILITY COMPANIES. WARPING OF THE PAVEMENT SURFACE TO MEET THESE ITEMS WILL NOT BE PERMITTED.
- ALL CASTINGS SHALL BE PAINTED AFTER INSTALLATION: ALL EXPOSED SURFACES NOT IN CONTACT WITH CONCRETE SHALL BE GIVEN TWO (2) COATS OF BLACK ASPHALTUM PAINT.
- ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION. IN ADDITION, IF WORK SHOULD BE STOPPED AND RESTARTED FOR ANY REASON, THE CONTRACTOR SHALL GIVE THE OWNER A MINIMUM SEVENTY-TWO (72) HOURS' NOTICE.
- THE CONTRACTOR SHALL PERFORM DAILY CLEANUP OPERATIONS WHICH INCLUDE, REMOVAL OF DEBRIS (CUPS, PAPER BAGS, CANS, ETC.), REMOVAL OF EXCESS CONSTRUCTION MATERIALS, ALL TO THE SATISFACTION OF THE OWNER.
- THE NEW PAVING SHALL BE APPLIED ONLY WHERE THE SURFACE TO BE COVERED IS DRY AND CLEAN AND WEATHER CONDITIONS, IN THE JUDGMENT OF THE OWNER, ARE SUITABLE. AFTER PAVING IS COMPLETE, THE CONTRACTOR SHALL SEAL ALL THE JOINTS BETWEEN NEW AND EXISTING PAVING WITH LIQUID ASPHALT. ANY LOW SPOTS WHICH COLLECT WATER AFTER PAVING IS COMPLETE SHALL BE SAW CUT AND REPLACED SO THAT AREAS PROPERLY DRAIN, AT NO ADDITIONAL COST TO THE OWNER. NO IRONING OF PAVEMENT OR REHEATING BY USE OF A PROPANE TORCH SHALL BE ALLOWED ON THIS PROJECT.
- ALL PILES OF UNSUITABLE EXCAVATED MATERIAL NOT TO BE UTILIZED FOR BACKFILL MATERIAL SHALL BE REMOVED AS EXCAVATED FROM THE PROJECT SITE OR AS ORDERED BY THE ENGINEER.
- THE CONTRACTOR SHALL OBTAIN, AND HAVE ON THE JOB SITE AT ALL TIMES, ALL PERMITS AS REQUIRED BY THE NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS, OR ANY OTHER PERMITTING AGENCY. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING THESE PERMITS.
- THE ENTIRE EXISTING DRAINAGE SYSTEM WITHIN THE CONTRACT LIMITS SHALL BE CLEANED AND MAINTAINED DURING THE COURSE OF CONSTRUCTION.
- ALL FIELD TRAILERS, STOCKPILE AND MATERIAL STORAGE LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK.
- WHERE IT IS NECESSARY TO RAISE MANHOLE CASTINGS TO GRADE FOR REPAVING, FIXED FRAME CASTINGS MUST BE RAISED EITHER BY ADJUSTING THE HEIGHT OF THE BRICK MASONRY OR USING AN APPROVED INSERT (METAL INSERTS ARE NOT PERMITTED). ADJUSTABLE FRAME-TYPE MANHOLES MAY BE RAISED BY ADDING UP TO A MAXIMUM OF TWO (2) ONE-INCH (1") ADJUSTMENT RINGS TO ACHIEVE FINAL GRADE.
- SEWER LINES CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE SEWER LINE AND THE OUTSIDE OF THE WATER MAIN. WATER MAIN CROSSING STORM DRAIN LINES SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BY INSTALLING WATER MAINS WITH A MINIMUM COVER OF FIVE FEET IN THE VICINITY OF ALL STORM DRAIN CROSSINGS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON ALL DRIVEWAYS AND PARKING AREAS WHERE WORK IS IN PROGRESS. ALL ROADWAYS SHALL REMAIN OPEN AND ACCESSIBLE TO ALL.
- UPON COMPLETION OF THE PROJECT, ALL STORM DRAINS WITHIN THE CONTRACT LIMITS SHALL BE CLEANED, INSPECTED.
- ALL DRAINAGE PIPE TO BE DOUBLE WALL CORRUGATED HDPE.
- A FINAL SURVEY MUST BE SUBMITTED AT COMPLETION OF JOB.
- THE CONTRACTOR IS TO CONFIRM THE ABANDONMENT OF ANY UTILITIES INDICATED AS TO BE ABANDONED OR TO BE REMOVED WITH A DESIGNATED REPRESENTATIVE OF THE COLD SPRING HARBOR LABORATORY.

DEMOLITION NOTES

- REFER TO THE DEMOLITION PLAN FOR ADDITIONAL INFORMATION REGARDING THE DEMOLITION OF ON-SITE UTILITIES.
- EXISTING UTILITIES ARE TO REMAIN. EXISTING UTILITIES BE PROTECTED AND MAINTAINED IN OPERATION THROUGHOUT CONSTRUCTION PERIOD.
- THE CONTRACTOR IS TO CONFIRM THE ABANDONMENT OF ANY UTILITIES INDICATED AS TO BE ABANDONED OR TO BE REMOVED WITH A DESIGNATED REPRESENTATIVE OF THE NORTH HEMPSTEAD HOUSING AUTHORITY.
- EXTENT OF LANDSCAPING TO BE REMOVED AND THE PROTECTION OF LANDSCAPING TO REMAIN IS TO BE COORDINATED WITH THE OWNER PRIOR TO THE START OF CONSTRUCTION.
- ANY UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN OBTAINED FROM AVAILABLE SOURCES. THE EXISTENCE AND LOCATION OF ANY UTILITIES INDICATED ON THE PLANS ARE NOT GUARANTEED AND SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY NO LATER THAN 48 HOURS PRIOR TO ANY EXCAVATION THAT MAY AFFECT THAT UTILITY. EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES SHALL BE DUG BY HAND. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE TO REMAIN.
- BEFORE THE START OF DEMOLITION, THE CONTRACTOR SHALL COORDINATE THE PROPOSED EXCAVATION WORK WITH THE OWNERS OF THE UTILITIES INVOLVED.
- WHERE EXISTING CURB, GUTTER, SIDEWALK OR WALK IS TO BE REMOVED, IT SHALL BE SAW CUT OR REMOVED AT THE NEAREST JOINT.
- ALL EXISTING SIGNS IN THE CONTRACT AREA ARE TO REMAIN INTACT. SIGNS DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY SIGNS THAT REQUIRE RESETTING SHALL BE PLACED IN A FINAL POSITION DETERMINED BY THE OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SIGNS DAMAGED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL PERFORM DAILY CLEANUP OPERATIONS WHICH INCLUDE SWEEPING OF THE ROADWAYS, REMOVAL OF DEBRIS (CUPS, PAPER BAGS, CANS, ETC.), REMOVAL OF EXCESS CONSTRUCTION MATERIALS, ALL TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL OBTAIN, AND HAVE ON THE JOB SITE AT ALL TIMES, ALL PERMITS AS REQUIRED BY THE NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS, OR ANY OTHER PERMITTING AGENCY. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING THESE PERMITS.
- THE CONTRACTOR SHALL CONFORM TO ALL CODES AND STANDARDS, STATE AND LOCAL LAWS AND CODE REQUIREMENTS SHALL GOVERN THE HAULING AND DISPOSAL OF TREES, SHRUBS, STUMPS, ROOTS, RUBBISH, DEBRIS AND OTHER MATTER.
- STREETS, ROADS, ADJACENT PROPERTY AND OTHER WORKS AND STRUCTURES SHALL BE PROTECTED THROUGHOUT THE ENTIRE PROJECT. CONTRACTOR SHALL RETURN TO ORIGINAL CONDITION, SATISFACTORY TO THE ENGINEER, FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS.
- NO TREES, SHRUBS, ROOTS, BRANCHES, WOOD, CONCRETE, OR OTHER DEBRIS SHALL BE BURIED IN FILLS, EMBANKMENTS OR STOCK PILES.
- NO CLEARED MATTER, DEBRIS OR SOILS SHALL BE STORED IN CONSTRUCTION WORK.
- CONTRACTOR SHALL GUARANTEE THAT WORK PERFORMED UNDER THIS CONTRACT WILL NOT PERMANENTLY DAMAGE TREES, SHRUBS, TURF OR PLANTS DESIGNATED TO REMAIN, OR OTHER ADJACENT WORK OR FACILITIES. IF DAMAGE RESULTING FROM CONTRACTOR'S OPERATIONS APPEARS DURING THE PERIOD UP TO 24 MONTHS AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REPLACE DAMAGED ITEMS AT HIS EXPENSE.
- DAMAGE TO ANY EXISTING ITEMS, NOT SHOWN IN CONTRACT DOCUMENTS TO BE REMOVED, SUCH AS PAVEMENT, GRASSED AREAS, UTILITIES, STRUCTURES OR OTHER FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER. ALL ASPHALT PAVEMENTS, GRASSED AREAS AND LANDSCAPING THAT ARE DAMAGED OR DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CONTRACT SPECIFICATIONS.
- EXCEPT AS NOTED BELOW, CONTRACTOR SHALL REMOVE FROM THE SITE AND SATISFACTORILY DISPOSE OF ALL TREES, SHRUBS, STUMPS, ROOTS, BRUSH, MASONRY, RUBBISH, SCRAP, DEBRIS, PAVEMENT, CURBS, FENCES AND MISCELLANEOUS OTHER STRUCTURES NOT COVERED UNDER OTHER SECTIONS AS SHOWN, SPECIFIED OR OTHERWISE REQUIRED TO PERMIT CONSTRUCTION OF THE NEW WORK.
- BURNING OF MATERIALS IS EXPRESSLY FORBIDDEN.
- TREES AND SHRUBS TO BE SAVED:
 - TREES AND SHRUBS WHICH ARE TO REMAIN SHALL BE PROTECTED BY FENCES, BARRICADES, WRAPPING OR OTHER METHODS. EQUIPMENT STORAGE, MATERIAL STOCKPILES, ETC., SHALL NOT BE PERMITTED WITHIN TREE BRANCH SPREAD.
 - PROTECT ALL OTHER TREES AND SHRUBS FROM DEFACEMENT, INJURY AND DESTRUCTION. PRESERVE TREES WITHIN THE CONTRACT LIMITS THAT ARE SO DELINEATED ON THE PLANS OR AS MARKED IN THE FIELD BY THE ENGINEER. ALSO, ALL TREES TO BE SAVED SHALL BE PROTECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - DO NOT CUT ROOTS UNNECESSARILY; HANDWORK OR OTHERWISE PREVENT DAMAGE TO ROOTS WHICH EXTEND INTO GRADING LIMITS OR LIMITS OF EXCAVATION. DISTURB ROOTS AS LITTLE AS POSSIBLE WHEN TUNNELING UNDER TREES. BACKFILLING AROUND TREE ROOTS SHALL BE DONE IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION IN THE VICINITY OF TREES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL VEGETATION FROM DAMAGE RESULTING FROM EMISSIONS FROM MOTORIZED EQUIPMENT.
 - DURING WORKING OPERATION, PROTECT THE TRUNK, FOLIAGE AND ROOT SYSTEM OF ALL TREES TO BE SAVED WITH BOARDS OR OTHER GUARDS AND AS REQUIRED TO PREVENT DAMAGE, INJURY AND DEFACEMENT. DO NOT PILE EXCAVATED MATERIAL ADJACENT TO THE BASE OF ANY TREES. DO NOT ALLOW RUNOFF TO ACCUMULATE AROUND BASE OF TREES. DO NOT FASTEN OR ATTACH ROPES, CABLE, OR GUY WIRES TO TREES WITHOUT PERMISSION OF THE ENGINEER. WHEN SUCH PERMISSION IS GRANTED, PROTECT THE TREE BEFORE MAKING FASTENING OR ATTACHMENTS BY PROVIDING BURLAP WRAPPING AND SOFTWOOD CLEATS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGE RESULTING FROM THESE ACTIONS. USE OF AXES OR CLIMBING SPURS FOR TRIMMING WILL NOT BE PERMITTED. PROVIDE CLIMBING ROPES DURING TRIMMING.
 - REMOVE SHRUBS TO BE SAVED, TAKING A SUFFICIENT FORTH RAII AT THE ROOTS TO MAINTAIN THE SHRUB. TEMPORARILY REPIANT IF REQUIRED, AND REPLACE AT THE COMPLETION OF CONSTRUCTION IN CONDITION EQUALING THE ORIGINAL.
 - TREE AND SHRUB REPAIR WHERE REQUIRED SHALL BE PERFORMED BY A TREE SURGEON.
 - TREES AND SHRUBS INTENDED TO REMAIN WHICH ARE DAMAGED BEYOND REPAIR BY CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

LEGEND-EXISTING

	PROPERTY LINE
	CONTOUR
	SPOT ELEVATION
	STRUCTURE
	TRAIL OR DIRT ROAD
	FENCE
	SWAMP
	TREE LINE
	TREES
	SIGN
	GAS VALVE
	GAS METER
	WATER VALVE
	WATER METER
	HYDRANT
	STORM DRAIN MANHOLE
	DRAINAGE INLET
	CATCH BASIN
	SANITARY SEWER MANHOLE
	ELECTRICAL MANHOLE
	TELEPHONE MANHOLE
	OTHER MANHOLE
	EXISTING UTILITY POLE
	TRAFFIC CONTROL BOX
	GEOTHERMAL WELL
	ELECTRICAL CONDUIT
	GAS MAIN
	STORM DRAIN
	TELEPHONE
	WATER MAIN
	SANITARY SEWER FORCE MAIN
	SANITARY SEWER
	FIBER OPTIC
	CATV / CABLE / TELEVISION

LEGEND-PROPOSED

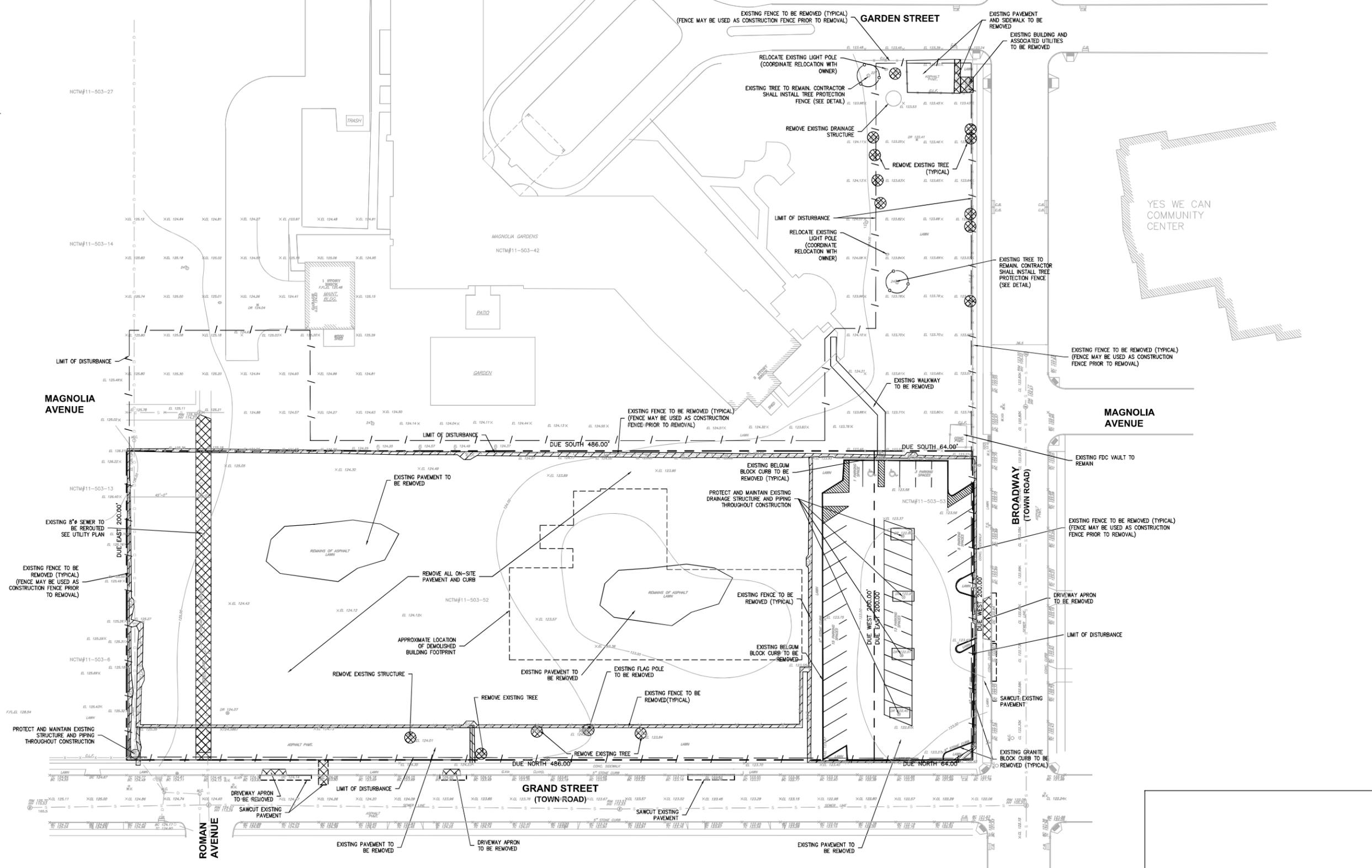
	ELECTRICAL CONDUIT
	GAS MAIN
	ROOF DRAIN
	SANITARY SEWER
	STORM DRAIN
	WATER MAIN
	FIRE SERVICE
	SPOT ELEVATION
	CATCH BASIN FRAME AND GRATE
	AREA DRAIN
	FLOW ARROW
	DRYWELL
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	SITE LIGHTING POLE
	ILLUMINATED BOLLARD
	STORM DRAIN INLET FILTER
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	FENCE FOR TREE PROTECTION
	CONCRETE WALKWAY
	PAVER AREA
	CLEAN OUT
	CONSTRUCTION LIMIT

LIST OF SITE PLAN DRAWINGS

DRAWING No.	DRAWING TITLE
G1	SYMBOLS AND ABBREVIATIONS
C1	DEMOLITION PLAN
C2	ALIGNMENT PLAN
C3	GRADING AND DRAINAGE PLAN
C4	UTILITY PLAN
C5	SANITARY PLAN AND PROFILE
C6	EROSION AND SEDIMENT CONTROL PLAN
C7	SITE LIGHTING PLAN
C8	SITE DETAILS
C9	DRAINAGE DETAILS
C10	SANITARY DETAILS
C11	WATER DETAILS
C12	EROSION AND SEDIMENT CONTROL DETAILS
C13	ACCESSIBILITY DETAILS I
C14	ACCESSIBILITY DETAILS II



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									5081		
NO.		DATE		REVISION		INT.		GENERAL NOTES, LEGEND AND ABBREVIATIONS		DATE:	
										FEBRUARY 2018	
										SCALE:	
										NTS	
										G1	



CAUTION NOTICE TO CONTRACTOR:
 CONTRACTOR MUST NOTIFY LOCAL ONE CALL CENTER
 MINIMUM TWO (2) DAYS PRIOR TO THE PROJECT'S
 EXCAVATION DATE AS PER NYS CODE RULE 753.

NYS APPROVAL BOX

NO.	DATE	REVISION	INT.



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DESIGNED BY: AC/DS
 CHECKED BY: STM



NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK

GRAND STREET HOMES

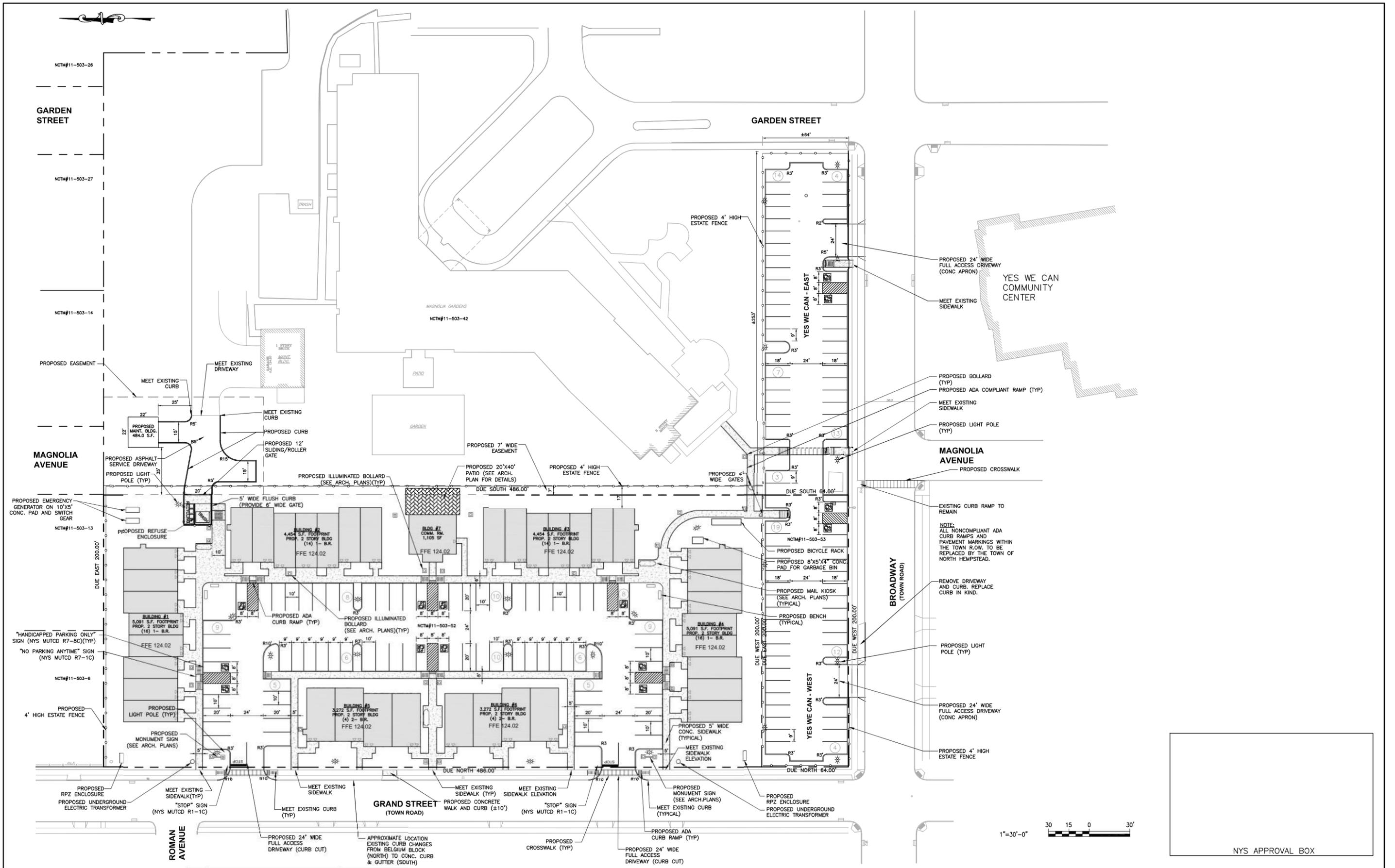
CONTRACT NO.
DEMOLITION PLAN

PROJECT NO.
 5081

DATE:
 FEBRUARY 2018

SCALE:
 1"=30'

DRAWING NO.
C1



NO.	DATE	REVISION	INT.



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PROJECT ENGINEER: AC
 DRAWN BY: DS
 DESIGNED BY: AC/DS
 CHECKED BY: STM



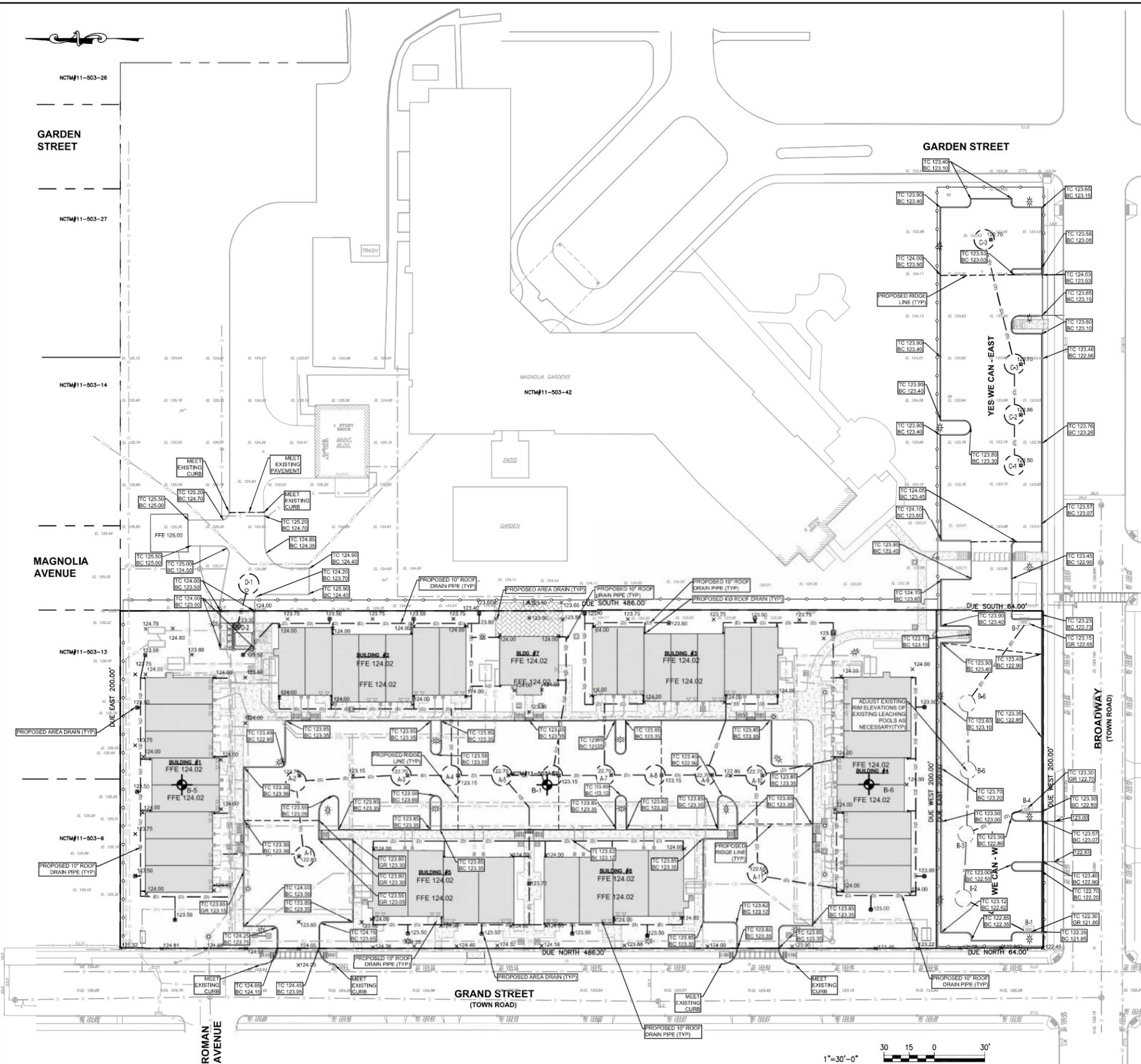
NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK

GRAND STREET HOMES

CONTRACT NO. **ALIGNMENT PLAN**

PROJECT NO. 5081
 DATE: FEBRUARY 2018
 SCALE: 1"=30'

DRAWING NO. **C2**



DRAINAGE CALCULATIONS:

DRAINAGE AREA "A" (97,200 SF)

- REQUIRED STORAGE:
 - PAVEMENT = 36,825 SF X 2.5/12 FT X 1.0 = 7,630.2 CF
 - BUILDING = 28,736 SF X 2.5/12 FT X 1.0 = 5,970.0 CF
 - LANDSCAPE = 33,839 SF X 2.5/12 FT X 0.3 = 2,114.9 CF
 - REQUIRED STORAGE DRAINAGE AREA = 15,315.1 CF (15,316 CF)
- PROVIDED STORAGE:
 - (11) 12" X 14" EFFECTIVE DEPTH DRY WELLS = 15,338.6 CF

DRAINAGE AREA "B" (12,801 SF)

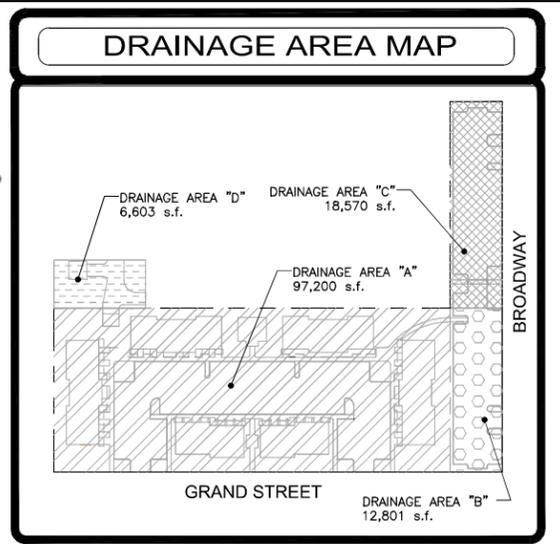
- REQUIRED STORAGE:
 - PAVEMENT = 11,276 SF X 2.5/12 FT X 1.0 = 2,349.2 CF
 - BUILDING = 1,525 SF X 2.5/12 FT X 0.3 = 95.3 CF
 - REQUIRED STORAGE DRAINAGE AREA = 2,444.5 CF (2,445 CF)
- PROVIDED STORAGE:
 - (4) EXISTING 10" X 10" EFFECTIVE DEPTH DRY WELLS = 2,736.0 CF

DRAINAGE AREA "C" (18,570 SF)

- REQUIRED STORAGE:
 - PAVEMENT = 16,570 SF X 2.5/12 FT X 1.0 = 3,452.1 CF
 - LANDSCAPE = 2,000 SF X 2.5/12 FT X 0.3 = 125.0 CF
 - REQUIRED STORAGE DRAINAGE AREA = 3,577.1 CF (3,578 CF)
- PROVIDED STORAGE:
 - (4) 12" X 9" EFFECTIVE DEPTH DRY WELLS = 3,632.4 CF

DRAINAGE AREA "D" (6,603 SF)

- REQUIRED STORAGE:
 - PAVEMENT = 2,135 SF X 2.5/12 FT X 1.0 = 449.8 CF
 - BUILDING = 484 SF X 2.5/12 FT X 1.0 = 100.8 CF
 - LANDSCAPE = 3,984 SF X 2.5/12 FT X 0.3 = 249.0 CF
 - REQUIRED STORAGE DRAINAGE AREA = 799.6 CF (800 CF)
- PROVIDED STORAGE:
 - (1) 10" X 12" EFFECTIVE DEPTH DRY WELLS = 820.8 CF



GRADING AND DRAINAGE NOTES:

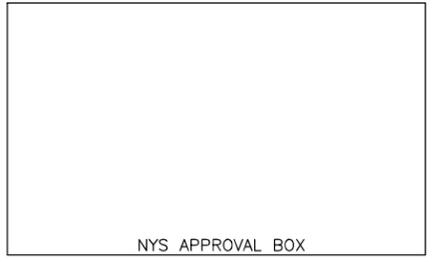
- STORAGE VOLUME DESIGN STORM = 2.5 INCHES.
- DRY WELL 8"Ø STORAGE VOLUME = 42.25 C.F./FT. DRY WELL 12"Ø STORAGE VOLUME = 68.42 C.F./FT. DRY WELL 12"Ø STORAGE VOLUME = 100.30 C.F./FT.
- ALL DRAINAGE PIPING BETWEEN DRAINAGE STRUCTURES TO BE 15"Ø HDPE SMOOTH INTERIOR WITH MINIMUM OF 0.50% SLOPE UNLESS OTHERWISE NOTED.
- ALL DRAINAGE PIPING ROOF DRAINS LATERALS TO BE 10"Ø HDPE SMOOTH INTERIOR WITH MINIMUM OF 0.50% SLOPE UNLESS OTHERWISE NOTED.
- MINIMUM SEPARATION DISTANCE FOR 8"Ø DRY WELLS IS 12 FEET. MINIMUM SEPARATION DISTANCE FOR 10"Ø DRY WELLS IS 15 FEET. MINIMUM SEPARATION DISTANCE FOR 12"Ø DRY WELLS IS 18 FEET.
- ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCINGS, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE.
- ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST UNLESS SHOWN OTHERWISE.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.
- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES REGARDING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- SITE GRADING SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
- FRENCH DRAIN SHALL BE INSTALLED IF DIRECTED BY THE GEOTECHNICAL ENGINEER.

DRAINAGE STRUCTURE SCHEDULE

STR. #	STR. DESCRIPTION	RIM/INLET ELEVATION	TOP OF RING *	BOTTOM OF RING	EFFECTIVE DEPTH (FT)	INVERT
A-1	12" DIA. DRY WELL (INLET)	122.80	120.00	106.00	14	118.15
A-2	12" DIA. DRY WELL (INLET)	122.70	120.00	106.00	14	117.75
A-3	12" DIA. DRY WELL (INLET)	122.70	120.00	106.00	14	117.23
A-4	12" DIA. DRY WELL (SOLID COVER)	123.15	120.00	106.00	14	117.00
A-5	12" DIA. DRY WELL (INLET)	122.70	120.00	106.00	14	117.20
A-6	12" DIA. DRY WELL (SOLID COVER)	123.15	120.00	106.00	14	117.00
A-7	12" DIA. DRY WELL (INLET)	122.70	120.00	106.00	14	117.20
A-8	12" DIA. DRY WELL (SOLID COVER)	123.15	120.00	106.00	14	117.00
A-9	12" DIA. DRY WELL (INLET)	122.70	120.00	106.00	14	117.20
A-10	12" DIA. DRY WELL (INLET)	122.75	120.00	106.00	14	117.40
A-11	12" DIA. DRY WELL (INLET)	122.65	120.00	106.00	14	117.90
B-1	CATCH BASIN (CURB INLET)	121.80	N/A	N/A	N/A	118.45
B-2	EXISTING 10" DIA. DRY WELL (INLET)	122.40	N/A	N/A	10	118.09**
B-3	EXISTING 10" DIA. DRY WELL (INLET)	122.50	N/A	N/A	10	118.09**
B-4	CATCH BASIN (CURB INLET)	122.70	N/A	N/A	N/A	119.35
B-5	EXISTING 10" DIA. DRY WELL (INLET)	122.91	N/A	N/A	10	N/A**
B-6	EXISTING 10" DIA. DRY WELL (INLET)	122.80	N/A	N/A	10	118.70**
B-7	CATCH BASIN (CURB INLET)	122.65	N/A	N/A	N/A	119.30
C-1	12" DIA. DRY WELL (INLET)	122.50	119.70	110.70	9	117.85
C-2	12" DIA. DRY WELL (SOLID COVER)	122.86	119.70	110.70	9	117.65
C-3	12" DIA. DRY WELL (INLET)	122.70	119.70	110.70	9	W 117.85 E 117.20
C-4	12" DIA. DRY WELL (INLET)	122.70	119.70	110.70	9	117.85
D-1	10" DIA. DRY WELL (SOLID COVER)	123.80	120.63	108.63	12	118.75
D-2	4" DIA. MANHOLE (INLET)	123.30	N/A	N/A	N/A	119.00

NOTES:
 *TOP OF RING ELEVATIONS ASSUME LOW-COEMES.
 **PROPOSED INVERT ELEVATIONS. EXISTING INVERTS TO REMAIN ARE NOT LISTED.

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NO.	DATE	REVISION	INIT

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PROJECT ENGINEER: AC
 DRAWN BY: DS
 DESIGNED BY: AC/DS
 CHECKED BY: STM



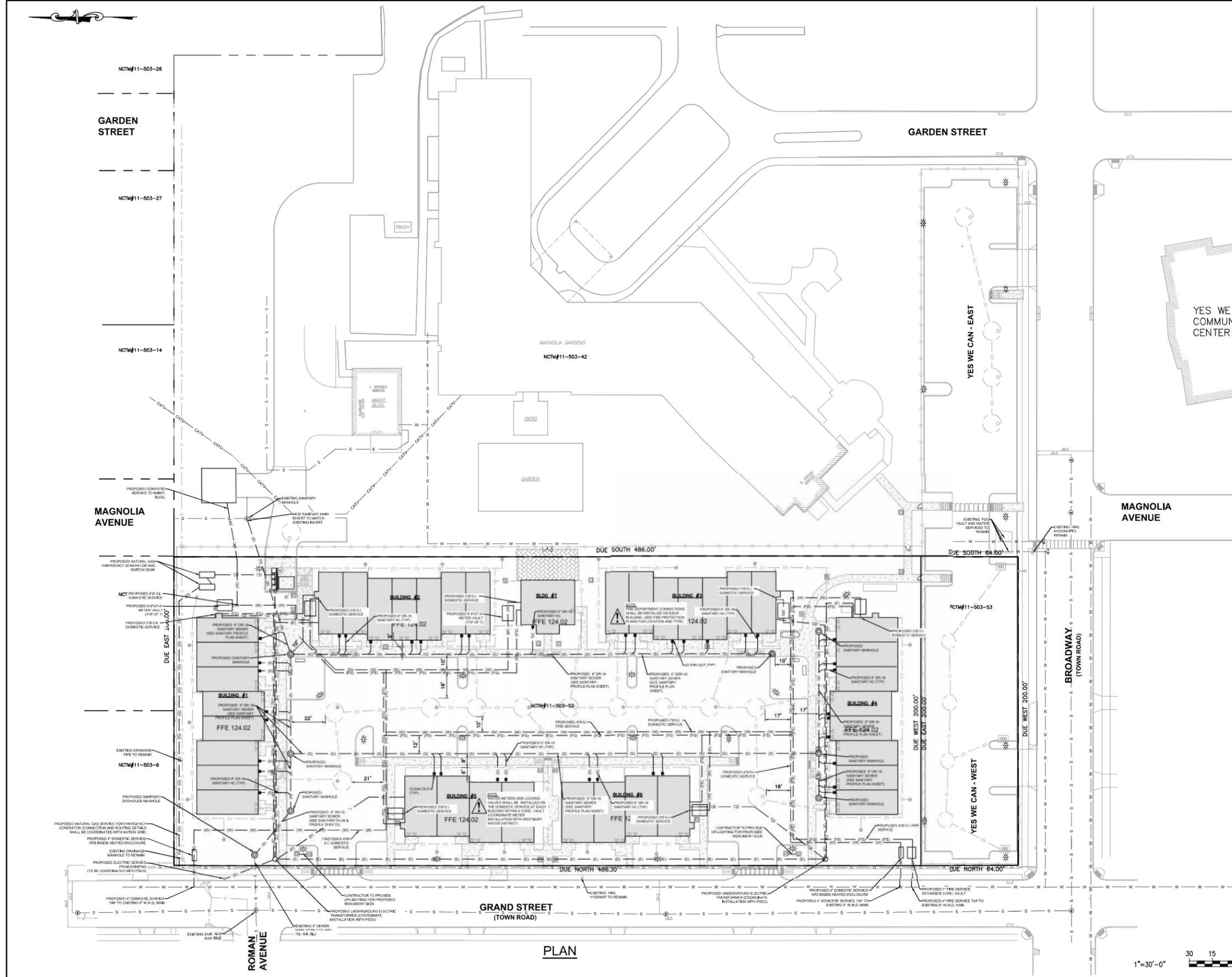
NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK

GRAND STREET HOMES

CONTRACT NO.

GRADING AND DRAINAGE PLAN

PROJECT NO. 5081
 DATE: FEBRUARY 2018
 SCALE: 1"=30'
 DRAWING NO. C3



- ELECTRIC & GAS NOTES:**
1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST RULES OF THE NATIONAL ELECTRIC CODE, REGULATIONS AND REGULATIONS AND GOVERNING LOCAL ORDINANCES.
 2. THE CONTRACTOR SHALL COMPLY WITH THE LAWS, RULES AND REGULATIONS OF THE STATE, MUNICIPAL AND DISTRICT DEPARTMENTS HAVING JURISDICTION.
 3. ALL ELECTRICAL EQUIPMENT BEING INSTALLED SHALL BE UL APPROVED AND LABELED, WHERE APPLICABLE.
 4. UPON COMPLETION OF WORK AN UNDERWRITERS CERTIFICATE SHALL BE SUBMITTED.
 5. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE CONCRETE TRANSFORMER PADS, AND IN ADDITION, THE SERVICE LATERALS AND THEIR COMPONENTS FROM THIS POINT TO THE SERVICE EQUIPMENT.
 6. THE PRIMARY FACILITIES, INCLUDING THE DISTRIBUTION LINES AND THE TRANSFORMERS WILL BE SUPPLIED, INSTALLED, OWNED AND MAINTAINED BY PSEG.
 7. UPON FINAL LOCATION OF THE CONSTRUCTED WORK, A 10 FOOT (MINIMUM) WIDE ELECTRICAL EASEMENT SHALL BE PROVIDED TO PSEG ENCOMPASSING ALL DISTRIBUTION LINES AND TRANSFORMERS.
 8. ALL NEW GAS MAINS SHALL BE PROVIDED, INSTALLED, OWNED AND MAINTAINED BY NATIONAL GRID.
 9. UPON FINAL LOCATION OF THE CONSTRUCTED WORK, A 10 FOOT (WIDE) GAS EASEMENT SHALL BE PROVIDED TO NATIONAL GRID.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES, AND THE MAINTENANCE AND PROTECTION OF ALL UTILITIES EXISTING (TO REMAIN).

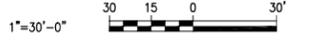
- UTILITY NOTES:**
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON AVAILABLE RECORDS AND WHENEVER POSSIBLE MEASUREMENTS IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS, UNLESS OTHERWISE NOTED ON THESE PLANS.
 2. ALL WORK SHALL BE IN CONFORMANCE WITH PROJECT SPECIFICATIONS, THE STANDARDS, SPECIFICATIONS AND DETAILS OF THE NASSAU COUNTY DEPARTMENT OF HEALTH, NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS AND THE TOWN OF NORTH HEMPSTEAD.
 3. THE PROPOSED CONNECTIONS FOR TELEPHONE, GAS AND ELECTRIC ARE SHOWN SCHEMATICALLY AND SUBJECT TO THE APPROVAL OF THE JURISDICTIONAL UTILITY COMPANY.
 4. A MINIMUM SEPARATION DISTANCE OF 10' (HORIZONTALLY) AND 18" (VERTICALLY) SHALL BE MAINTAINED BETWEEN WATER SERVICE AND STORM DRAINAGE LEACHING POOL OR WATER AND SANITARY SEWER.
 5. THE CONTRACTOR SHALL REFER TO PLANS PREPARED BY OTHERS FOR THE CIRCUITING OF SITE LIGHTING AND LAYOUT OF SITE LIGHTING CONDUITS.
 6. ALL CONCRETE SHALL HAVE AN UNCONFINED COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
 7. ALL PRECAST CONCRETE SHALL BE ABLE TO WITHSTAND H-20 LOADING (HIGHWAY LOADING).
 8. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY GENERAL CONTRACTOR AND THE UTILITY COMPANY PROVIDING SERVICE.
 9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
 10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE-IN FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
 11. GENERAL CONTRACTOR SHALL FURNISH COMMUNICATION CONDUIT(S) AS DIRECTED BY THE OWNER AND VERIFY THE LOCATION OF TIE-IN AT TELEPHONE COMPANY'S SERVICE LINE. PROVIDE NYLON PULL CORDS INSIDE CONDUITS.
 12. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS, IN ACCORDANCE WITH HEMPSTEAD VILLAGE SPECIFICATION.
 13. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING UNLESS DEPICTED OTHERWISE.
 14. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
 15. REFER TO FIRE PROTECTION SHEETS FOR LOCATION AND DETAIL OF FIRE LINE LEAD IN AND FIRE DEPARTMENT CONNECTIONS.
 16. ON-SITE PUBLIC UTILITY LOCATIONS ARE SUBJECT TO CHANGE BY THE GOVERNING UTILITY COMPANIES.
 17. CONTRACTOR SHALL COORDINATE TEMPORARY WATER SERVICE WITH THE WESTBURY WATER DISTRICT.

- MATERIAL REQUIREMENTS FOR INSTALLATION OF WATER MAINS:**
1. CLASS 52 DUCTILE IRON WATER MAIN PIPE (4" AND LARGER DIAMETER) - U.S. PIPE OR GRIFFIN MANUF.
 2. TYPE "K" COPPER ON SERVICE LINES (2" AND SMALLER DIAMETER).
 3. SOLID SLEEVES COUPLINGS (NO WRAPAROUND TYPES).
 4. FULL BODY FITTINGS (U.S.) MANUFACTURER OR IF UNAVAILABLE, LIGHTWEIGHT FITTINGS (U.S. MANUFACTURER ONLY).
 5. UNDERGROUND CLAMPS.
 6. TIE RODS.
 7. DUC LUGS.
 8. FORD UNI-FLANGE SERIES 1400 PIPE RESTRAINTS FOR DUCTILE IRON PIPE (IF APPLICABLE, REPLACES #5, 6 AND 7).
 9. POURED CONCRETE THRUST BLOCK AT ALL PIPE BENDS.
 10. MUELLER (SUPER CENTURION) TYPE FIRE HYDRANTS (NATIONAL STANDARD THREAD) OR CLOW (EDDY) TYPE.
 11. GATE VALVES (UNDER 12" WATER MAIN SIZE) MUELLER OR CLOW RESILIENT WEDGE TYPE.
 12. BUTTERFLY VALVES (OVER 12" WATER MAIN SIZE) MUELLER OR CLOW.

- INSTALLATION NOTES:**
1. WATER MAINS AND SERVICES SHALL BE INSTALLED WITH MINIMUM 4'-6" COVER.
 2. WATER MAINS SHALL BE CHLORINATED AS PER NASSAU COUNTY HEALTH DEPARTMENT REQUIREMENTS.
 3. WHERE THE PROPOSED WATER MAIN IS TO BE LAID PARALLEL TO A SANITARY OR STORM SEWER, WHENEVER POSSIBLE, IT SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM SAID SEWERS. WHERE THIS SEPARATION CANNOT BE MAINTAINED, THE BOTTOM OF THE WATER MAIN SHALL BE INSTALLED AT LEAST 18" ABOVE THE TOP OF THE SEWERS. ALTERNATIVELY, IF THESE CLEARANCES CANNOT BE MAINTAINED, BOTH WATER AND SEWER ARE TO BE CONSTRUCTED OF MECHANICAL JOINT CAST IRON OR PVC PRESSURE PIPE AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
 4. WHERE THE PROPOSED WATER MAIN IS TO PASS UNDER A STORM OR SANITARY SEWER, AN 18" SEPARATION SHALL BE PROVIDED AND THE JOINTS IN THE WATER MAIN SHALL BE AT LEAST 10' EACH SIDE OF THE SEWER. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED TO PREVENT SETTLEMENT OF SEWER PIPE.

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PLAN

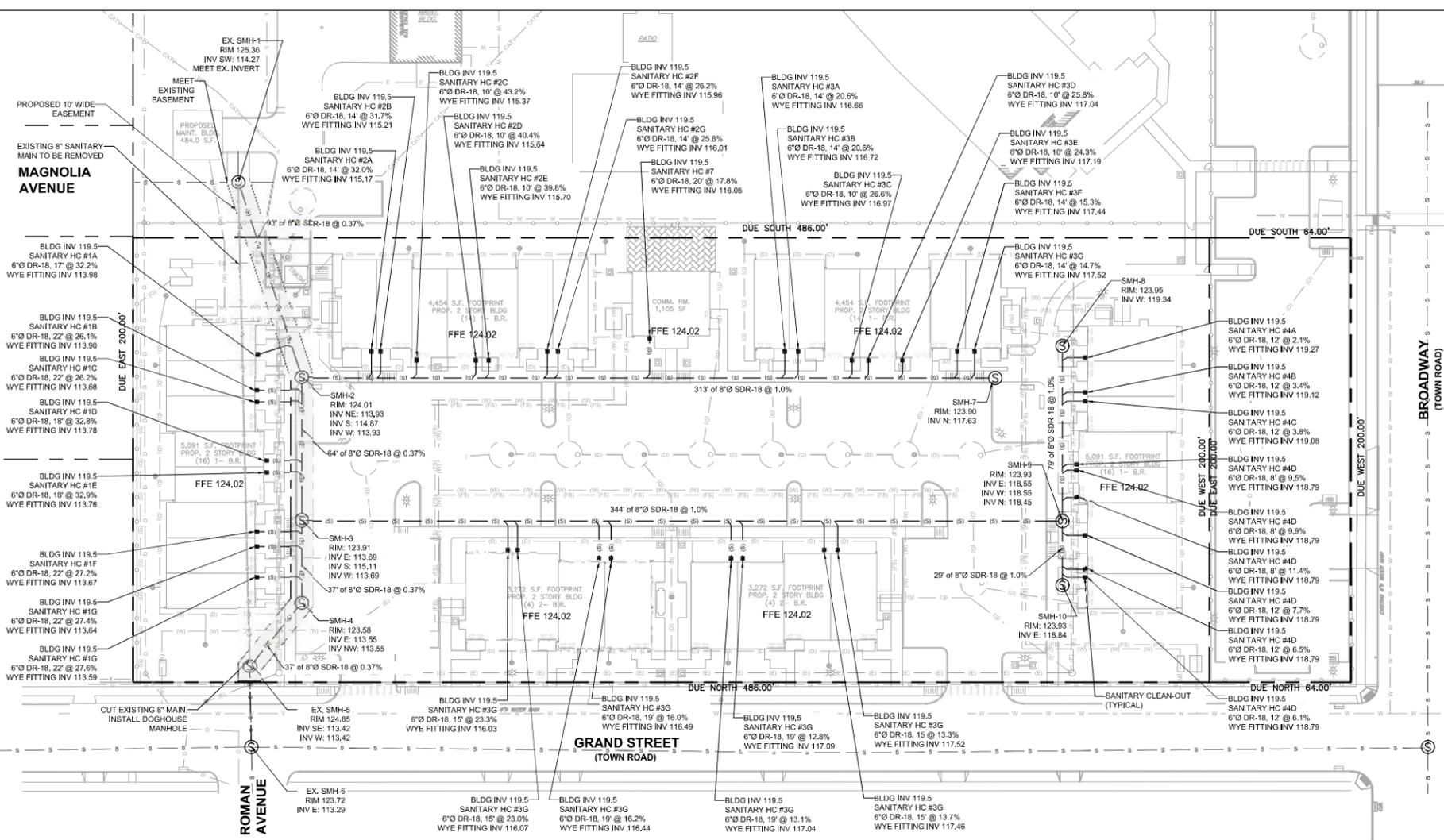


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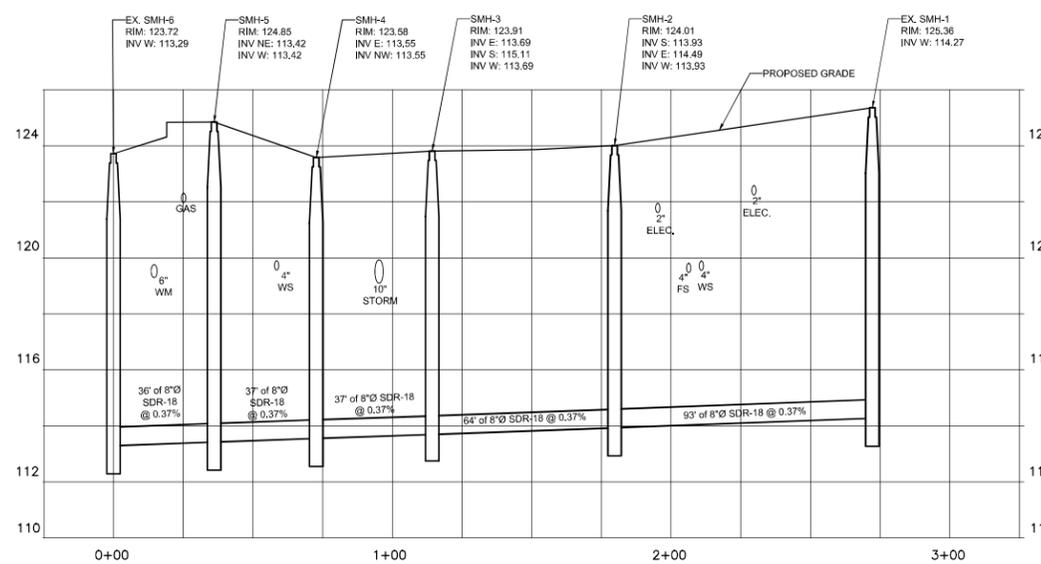
UNAWITTING/ALTERNATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.				NORTH HEMPSTEAD HOUSING AUTHORITY NASSAU COUNTY NEW YORK		CONTRACT NO. UTILITY PLAN		PROJECT NO. 5081		DRAWING NO. C4	
PROJECT ENGINEER: AC	DRAWN BY: DS			GRAND STREET HOMES		DATE: FEBRUARY 2018		SCALE: 1"=30'			
DESIGNED BY: AC/DS	CHECKED BY: STM										
NO.	DATE	REVISION	INIT								

SANITARY SEWER NOTES:

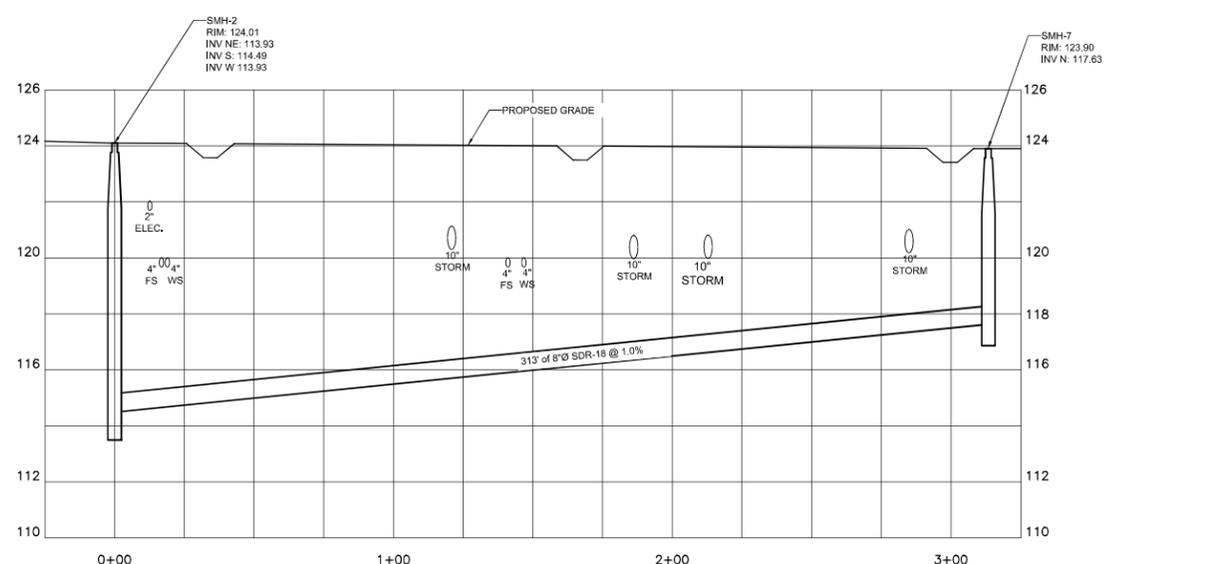
- THIS PROPERTY IS LOCATED WITHIN THE NASSAU COUNTY SEWER DISTRICT.
- THE DEVELOPER/CONTRACTOR SHALL INSTALL THE SANITARY SEWERS IN ACCORDANCE WITH NCCPW STANDARD SPECIFICATIONS AND DETAILS FOR THE CONSTRUCTION OF SANITARY SEWERS, LATEST EDITION 2003, UNDER PERMIT AND/OR SEWER AGREEMENT WITH THE COUNTY.
- THE HORIZONTAL/VERTICAL SEPARATION OF SEWER AND DRAINAGE PIPE, AND WATER MAINS/SERVICES SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN THE RECOMMENDED STANDARDS FOR SEWAGE WORKS (TEN STATE STANDARDS), LATEST EDITION.
- WHERE SANITARY OR HOUSE CONNECTION SEWERS CROSS OVER A DRAINAGE TRENCH AREA, THE SEWER SHALL BE REPLACED WITH DUCTILE IRON EXTENDING A MINIMUM OF FIVE (5) FEET EACH SIDE OF THE CROSSING TO UNDISTURBED SOIL. THE SAME REPLACEMENT SHALL APPLY FOR SEWERS UNDER A DRAINAGE TRENCH AREA WITHIN TWELVE (12) INCHES CLEARANCE, BOTTOM OF DRAIN TO TOP OF SEWER.
- THE MINIMUM MAXIMUM HEIGHT LIMITS FOR BRICKWORK FOR NEW MANHOLES ARE (4) FOUR INCHES AND (16) SIXTEEN INCHES, RESPECTIVELY. ADJUSTMENTS TO CHIMNEY HEIGHT TO MEET THE LIMITS SHALL BE BY ALTERING THE PRECAST MANHOLE BARREL. ADDITIONAL REQUIREMENTS ARE:
 - ONLY CONCRETE BRICK WILL BE USED FOR BRICKWORK.
 - THE MANHOLE FRAME IS TO BE SET IN PORTLAND CEMENT CONCRETE. BRICK MORTAR WILL NOT BE PERMITTED.
 - THE MANHOLE COVERS MUST BE AT FINISHED STREET GRADE. WARRING OR FEATHERING OF THE PAVEMENT TO MEET PROPERLY SET MANHOLES WILL NOT BE PERMITTED.
 - THE MANHOLES AND COVERS MUST BE CLEAN AND FREE FROM ALL ROAD PAVING MATERIALS AND DEBRIS PRIOR TO PAINTING THE CASTINGS.
- ALL CONNECTIONS TO THE MANHOLES MUST BE BY A FLEXIBLE RUBBER BOOT. IF THE BOOT IS NOT CAST IN, OR THE MANHOLE IS EXISTING, THE CONNECTION MUST BE BY THE KOR-SEAL METHOD.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR ENTRY INTO A CONFINED SPACE WHENEVER IT IS NECESSARY FOR A CONTRACTOR'S EMPLOYEE TO ENTER A NASSAU COUNTY SANITARY SEWER MANHOLE. THE MINIMUM REQUIREMENTS THE CONTRACTOR MUST COMPLY WITH ARE:
 - CONTRACTOR ISSUED "ENTRY PERMIT"
 - CONFINED SPACE ENTRY MONITOR TO TEST FOR TOXIC, EXPLOSIVE AND OXYGEN DEFICIENT ATMOSPHERE.
 - CONFINED SPACE RESCUE AND RETRIEVAL EQUIPMENT.
- THE CONTRACTOR WILL NOT BE PERMITTED TO WORK IN A NASSAU COUNTY SANITARY SEWER MANHOLE UNLESS HE COMPLIES WITH ALL APPLICABLE OSHA REQUIREMENTS.
- THE SANITARY SEWER SERVICING THIS PROPERTY IS TO REMAIN PRIVATE. MAINTENANCE AND REPAIRS ARE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.
- ALL SANITARY SEWER HOUSE CONNECTIONS SHALL BE (6) SIX INCH PVC AT A MINIMUM OF 2% SLOPE.
- ALL SANITARY CLEANOUTS, HOUSE CONNECTIONS, ETC. SHALL MEET NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS SANITARY SEWER STANDARDS. CLEANOUTS ON 6" LINE SHALL BE 75" O.C. MAXIMUM AND AT ALL BENDS GREATER THAN 23 DEGREES.
- THE OWNER/BUILDER SHALL SECURE THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK WITH EXPERIENCE IN THE FIELD OF SANITARY CONSTRUCTION. THAT ENGINEER WILL BE REQUIRED TO CERTIFY TO THE COUNTY OF NASSAU THAT THE CONSTRUCTION OF THE LINES AND STRUCTURES HAS BEEN INSPECTED AND INSTALLED WITH THE STANDARDS AND SPECIFICATIONS OF NASSAU COUNTY. THE ENGINEER SHALL FURNISH TWO (2) SETS OF CERTIFIED AS-BUILT DRAWINGS.



PLAN
SCALE: 1" = 30'



SANITARY PROFILE - 1
SCALE: 1" = 30' (HOR.), 1" = 3' (VERT)



SANITARY PROFILE - 2
SCALE: 1" = 30' (HOR.), 1" = 3' (VERT)



NO.	DATE	REVISION	INT.

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PROJECT ENGINEER:	DRAWN BY:
AC	DS
DESIGNED BY:	CHECKED BY:
AC/DS	STM

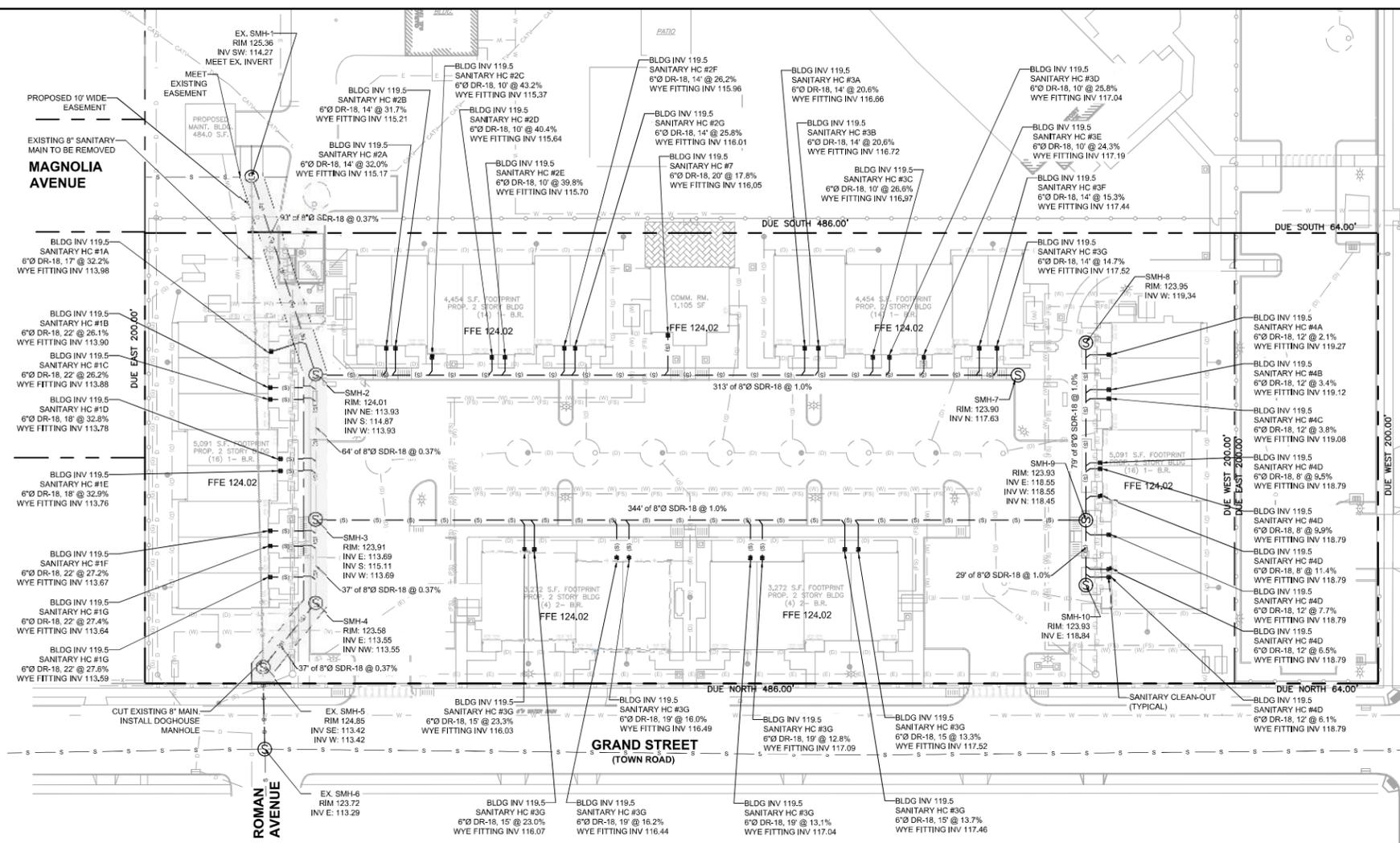


NORTH HEMPSTEAD HOUSING AUTHORITY	
NASSAU COUNTY	NEW YORK
GRAND STREET HOMES	

CONTRACT NO.		PROJECT NO.	DRAWING NO.
SANITARY PLAN AND PROFILE 1		5081	C5
DATE:		FEBRUARY 2018	
SCALE:		1"=30'	

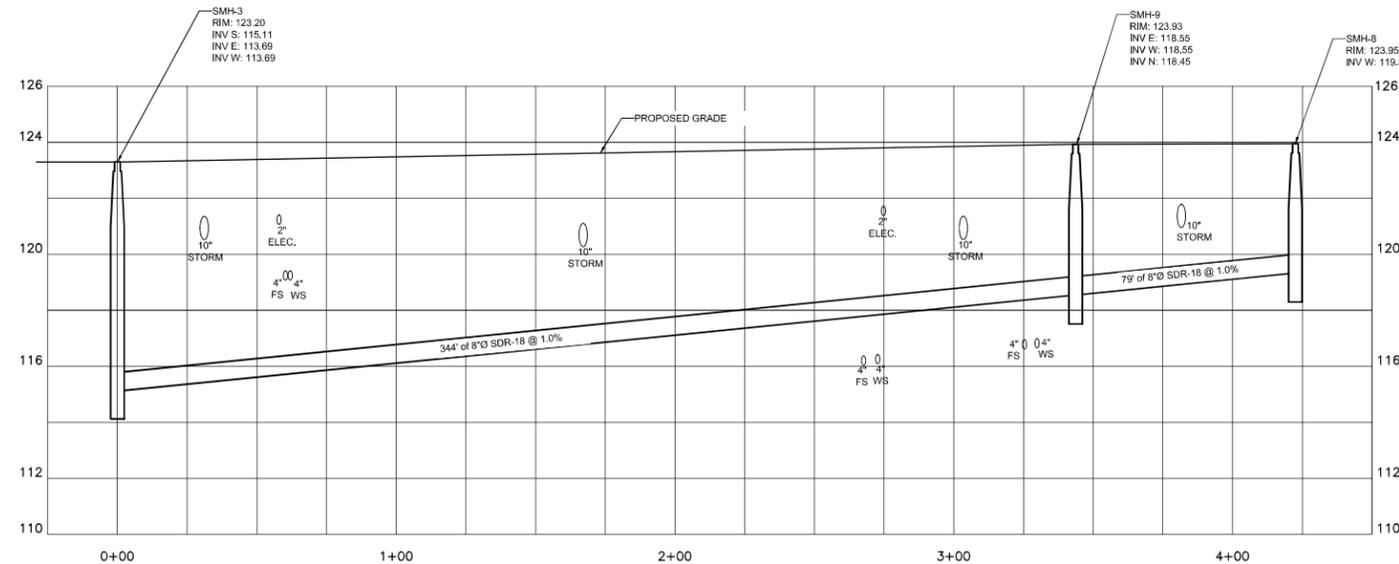
SANITARY SEWER NOTES:

- THIS PROPERTY IS LOCATED WITHIN THE NASSAU COUNTY SEWER DISTRICT.
- THE DEVELOPER/CONTRACTOR SHALL INSTALL THE SANITARY SEWERS IN ACCORDANCE WITH NCDPW STANDARD SPECIFICATIONS AND DETAILS FOR THE CONSTRUCTION OF SANITARY SEWERS, LATEST EDITION 2003, UNDER PERMIT AND/OR SEWER AGREEMENT WITH THE COUNTY.
- THE HORIZONTAL/VERTICAL SEPARATION OF SEWER AND DRAINAGE PIPE, AND WATER MAINS/SERVICES SHALL MEET OR EXCEED THE REQUIREMENTS OUTLINED IN THE RECOMMENDED STANDARDS FOR SEWAGE WORKS (TEN STATE STANDARDS), LATEST EDITION.
- WHERE SANITARY OR HOUSE CONNECTION SEWERS CROSS OVER A DRAINAGE TRENCH AREA, THE SEWER SHALL BE REPLACED WITH DUCTILE IRON EXTENDING A MINIMUM OF FIVE (5) FEET EACH SIDE OF THE CROSSING TO UNDISTURBED SOIL. THE SAME REPLACEMENT SHALL APPLY FOR SEWERS UNDER A DRAINAGE TRENCH AREA WITHIN TWELVE (12) INCHES CLEARANCE, BOTTOM OF DRAIN TO TOP OF SEWER.
- THE MINIMUM MAXIMUM HEIGHT LIMITS FOR BRICKWORK FOR NEW MANHOLES ARE (4) FOUR INCHES AND (16) SIXTEEN INCHES, RESPECTIVELY. ADJUSTMENTS TO CHIMNEY HEIGHT TO MEET THE LIMITS SHALL BE BY ALTERING THE PRECAST MANHOLE BARREL. ADDITIONAL REQUIREMENTS ARE:
 - ONLY CONCRETE BRICK WILL BE USED FOR BRICKWORK.
 - THE MANHOLE FRAME IS TO BE SET IN PORTLAND CEMENT CONCRETE. BRICK MORTAR WILL NOT BE PERMITTED.
 - THE MANHOLE COVERS MUST BE AT FINISHED STREET GRADE. WARPING OR FEATHERING OF THE PAVEMENT TO MEET IMPROPERLY SET MANHOLES WILL NOT BE PERMITTED.
 - THE MANHOLES AND COVERS MUST BE CLEAN AND FREE FROM ALL ROAD PAVING MATERIALS AND DEBRIS PRIOR TO PAINTING THE CASTINGS.
- ALL CONNECTIONS TO THE MANHOLES MUST BE BY A FLEXIBLE RUBBER BOOT. IF THE BOOT IS NOT CAST IN, OR THE MANHOLE IS EXISTING, THE CONNECTION MUST BE BY THE KOR-N-SEAL METHOD.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR ENTRY INTO A CONFINED SPACE WHENEVER IT IS NECESSARY FOR A CONTRACTOR'S EMPLOYEE TO ENTER A NASSAU COUNTY SANITARY SEWER MANHOLE. THE MINIMUM REQUIREMENTS THE CONTRACTOR MUST COMPLY WITH ARE:
 - CONTRACTOR ISSUED 'ENTRY PERMIT'
 - CONFINED SPACE ENTRY MONITOR TO TEST FOR TOXIC, EXPLOSIVE AND OXYGEN DEFICIENT ATMOSPHERE.
 - CONFINED SPACE RESCUE AND RETRIEVAL EQUIPMENT.
- THE CONTRACTOR WILL NOT BE PERMITTED TO WORK IN A NASSAU COUNTY SANITARY SEWER MANHOLE UNLESS HE COMPLIES WITH ALL APPLICABLE OSHA REQUIREMENTS.
- THE SANITARY SEWER SERVING THIS PROPERTY IS TO REMAIN PRIVATE. MAINTENANCE AND REPAIRS ARE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.
- ALL SANITARY SEWER HOUSE CONNECTIONS SHALL BE (6) SIX INCH PVC AT A MINIMUM OF 2% SLOPE.
- ALL SANITARY CLEANOUTS, HOUSE CONNECTIONS, ETC. SHALL MEET NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS SANITARY SEWER STANDARDS. CLEANOUTS ON 6" LINE SHALL BE 75' O.C. MAXIMUM AND AT ALL BENDS GREATER THAN 23 DEGREES.
- THE OWNER/BUILDER SHALL SECURE THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK WITH EXPERIENCE IN THE FIELD OF SANITARY CONSTRUCTION. THAT ENGINEER WILL BE REQUIRED TO CERTIFY TO THE COUNTY OF NASSAU THAT THE CONSTRUCTION OF THE LINES AND STRUCTURES HAS BEEN INSPECTED AND INSTALLED WITH THE STANDARDS AND SPECIFICATIONS OF NASSAU COUNTY. THE ENGINEER SHALL FURNISH TWO (2) SETS OF CERTIFIED AS-BUILT DRAWINGS.



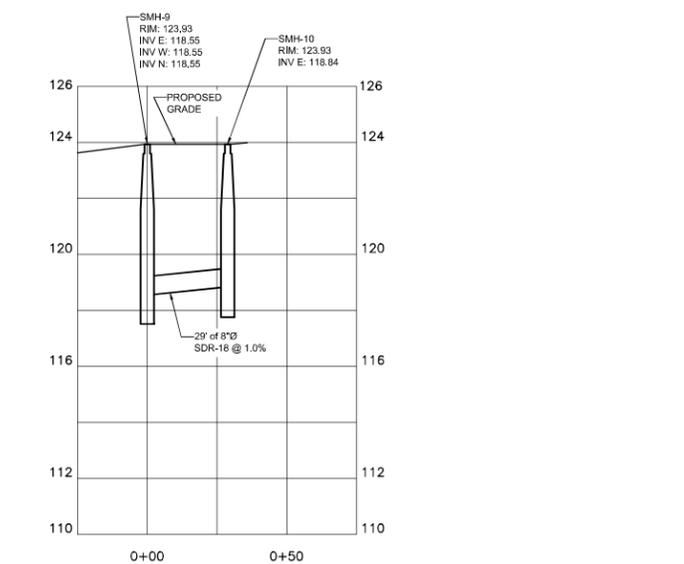
PLAN

SCALE: 1" = 30'



SANITARY PROFILE - 3

SCALE: 1" = 30' (HOR.)
1" = 3' (VERT)



SANITARY PROFILE - 4

SCALE: 1" = 30' (HOR.)
1" = 3' (VERT)



1"=30'-0"



NO.	DATE	REVISION	INT.



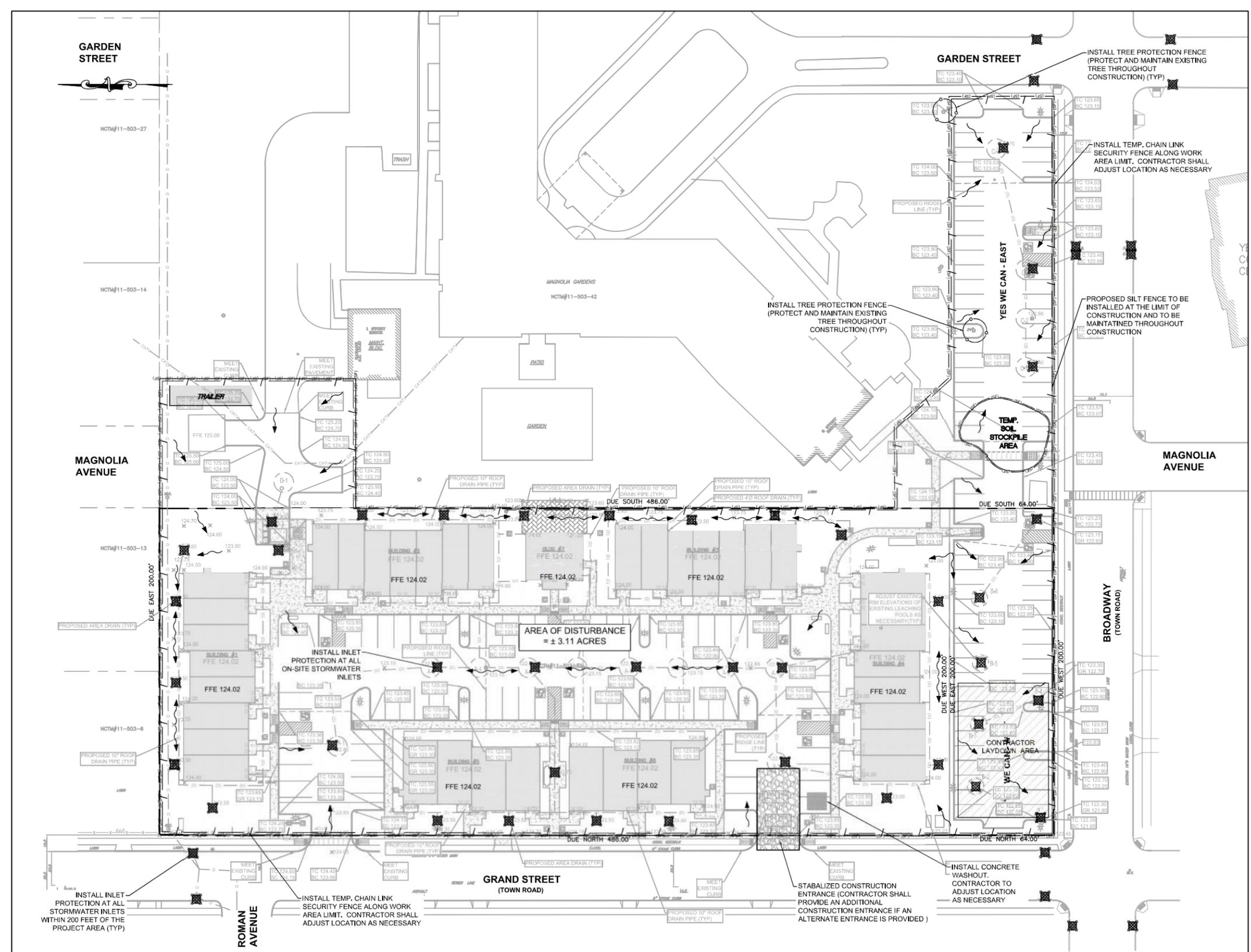
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NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET HOMES

CONTRACT NO. _____
SANITARY PLAN AND PROFILE 2

PROJECT NO. 5081	DRAWING NO. C6
DATE FEBRUARY 2018	
SCALE: 1"=30'	



ON-SITE COVERAGE SUMMARY (WITHIN DISTURBED AREA)

	EXISTING	PROPOSED
IMPERVIOUS	1.65 ACRES	2.15 ACRES
PERVIOUS	1.46 ACRES	0.96 ACRES
TOTAL	3.11 ACRES	3.11 ACRES

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL NOT RECEIVE PERMANENT RESTORATION WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY COVER. THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- PERMANENT VEGETATION TO BE SEED OR SODED ON ALL EXPOSED AREAS WILL BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 14 DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.: STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY COVER OF STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.: SLOPES GREATER THAN 3:1)
- NEW GRAVEL PAD SHALL BE INSTALLED WITH 1-1/2" TO 2-1/2" STONE, AS PER TRAFFIC CONTROL STANDARD REQUIREMENTS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE. SAID PAD SHALL BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC. THE PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PRIVATE PROPERTY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, CROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION ACTIVITIES. THE AREA USED FOR TRACKING PAD SHALL BE RETURNED TO ELEVATIONS AND CONDITIONS WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
- THE ENGINEER, SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE PERFORMED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A MANNER THAT WILL PERMANENTLY ADAPT THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MAINTAIN DUST CONTROL. DIRT HAUL ROADS SHALL BE SPRINKLED WITH WATER OR GIVEN A SURFACE OF CRUSHED STONES OR WOODCHIPS AS REQUIRED. VEHICLES SHALL BE CLEANED, AS NECESSARY, PRIOR TO USING PUBLIC STREETS. PAVED ROADS SHALL BE SPRINKLED WITH WATER.
- ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE LOCATED IN THE FIELD AS REQUIRED OR AT THE DIRECTION OF THE ENGINEER. THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION AND DETAILS FOR ALL SUCH DEVICES BUT ARE TO BE USED AS A REASONABLE GUIDE.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE TOWN AND THE ENGINEER. THE REVISED PLANS MUST BE PREPARED BY THE CONTRACTOR AND MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL PRACTICES.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
- UPON COMPLETION OF CONSTRUCTION WORK AND AFTER FINAL GRADING AND WHEN PERMANENT STABILIZATION HAS BEEN ESTABLISHED, HAY BALES, SILT FENCES AND ALL OTHER SOIL PLAN APPURTENANCES WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, UNLESS ORDERED TO REMAIN BY THE ENGINEER.
- ALL EXCESS EXCAVATED MATERIAL, EXCEPT FOR TOP SOIL, WILL BE REMOVED FROM THE SITE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONDUIT OUTLETS AND CATCH BASIN INLETS MUST BE PROTECTED PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION OPERATIONS FOR REVIEW AND SUBMITTAL TO THE ENGINEER.
- THE CONTRACTOR SHALL MEET ENGINEER ON-SITE TO DEFINE THOSE AREAS WHICH WILL REQUIRE SOIL EROSION AND SEDIMENT CONTROL FACILITIES, DISCUSS THEIR CONSTRUCTION AND THEREAFTER PROVIDE DETAILED PLANS FOR REVIEW OF SUCH FACILITIES BY THE TOWN OF OYSTER BAY AND THE ENGINEER.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE WHERE POSSIBLE PRIOR TO, OR IMMEDIATELY FOLLOWING SITE AND ACCESS CLEARING.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE AND MAINTAINED; INCLUDING SILT AND SEDIMENT REMOVAL, UNTIL CONSTRUCTION IS COMPLETED, AREA STABILIZED AND THE ENGINEER SO DIRECTS.
- THE CONTRACTOR SHALL CONFINE SOIL DISTURBANCE ACTIVITY TO THE AREAS CONTAINED WITHIN THE "LIMIT OF DISTURBANCE" LINES EXCEPT AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE AND COORDINATION WITH ADJACENT CONTRACTS. SUCH ACTIVITY SHALL ESSENTIALLY CONSIST OF CLEARING, GRUBBING, CONSTRUCTION IN AREAS DEFINED AS BUILDINGS, TANKS, PIPELINE, PARKING AREAS, DRIVES AND WALKWAYS OR AS MAY BE REQUIRED DUE TO GRADE CHANGES OR RETAINING WALLS.
- ALL Dewatering operations must discharge directly into a sediment filter area. SEDIMENT FILTER SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE DETAILS OF DESIGN AND CONSTRUCTION SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, AND ALL OTHER PERTINENT AGENCIES FOR REVIEW.
- THE PROJECT IS ANTICIPATED TO BE COMPLETED WITHIN THE TIME ALLOTMENT AS SPECIFICALLY DESCRIBED IN THE CONTRACT DOCUMENTS.
- SOIL STABILIZATION METHODS SHALL BE UNDERTAKEN COINCIDENTALLY WITH ALL MAJOR SITE IMPROVEMENTS AND CONTINUE DURING THE ENTIRE CONSTRUCTION ACTIVITY PERIOD.
- THE LIMITS OF FENCING FOR TREE PROTECTION WILL BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION.

SOIL RESTORATION STANDARDS

- THE OBJECTIVE IS TO DE-COMPACT THE SOILS IN THOSE AREAS WHICH WERE SUBJECT TO THE USE OF HEAVY EQUIPMENT AND TO RESTORE THE ORIGINAL PROPERTIES OF THE SOIL BY TILLING (OR ROTOTILLING) AND SOIL AMENDMENT THROUGH THE USE OF COMPOST. THIS WILL REDUCE THE GENERATION OF RUNOFF DUE TO CONSTRUCTION ACTIVITIES AND ENHANCE THE RUNOFF REDUCTION CAPACITY OF THE SOILS.
- SOIL RESTORATION WILL BE APPLIED DURING THE CLEANUP AND RESTORATION PHASE OF THE PROJECT THROUGHOUT ALL CONSTRUCTION WORK AREAS. ALL DISTURBED AND COMPACTED AREAS WILL BE RESTORED IN ACCORDANCE WITH THE SOIL RESTORATION REQUIREMENTS IN TABLE 5.3 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL, LATEST EDITION.
- SOIL RESTORATION WILL BE ACCOMPLISHED DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE. THE DISTURBED SUBSOILS WILL BE RETURNED TO ROUGH GRADE AND THE FOLLOWING STEPS WILL BE IMPLEMENTED:
- THREE (3) INCHES OF COMPOST WILL BE APPLIED OVER THE SUBSOIL.
 - THE COMPOST LAYER WILL BE TILLED INTO THE SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER. MIXING AND CIRCULATING AIR AND COMPOST INTO SUBSOIL. TILLING SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE. THE USE OF FERTILIZERS WILL BE MINIMIZED AND WILL BE UTILIZED ONLY WITHIN EXISTING COMMERCIAL AND/OR RESIDENTIAL LAWN AREAS. COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VIBRILE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN, AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.
 - ROCK-PICKING WILL BE PERFORMED UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE HAVE BEEN CLEARED.
 - TOPSOIL WILL BE APPLIED TO A MINIMUM DEPTH OF 6 INCHES. TOPSOIL SHALL BE PROVIDED FROM STOCKPILES CREATED DURING TOPSOIL SEGRIGATION OPERATIONS.
 - AT THE END OF THE PROJECT, THE ENVIRONMENTAL INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" INCH METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT.
- THE SEED MIX UTILIZED SHALL BE AS SPECIFIED IN SPECIFICATION SECTION 02921 - SEEDING.



NYS APPROVAL BOX

NO.	DATE	REVISION	BY/T

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 DESIGNED BY: AC/DS
 CHECKED BY: STM

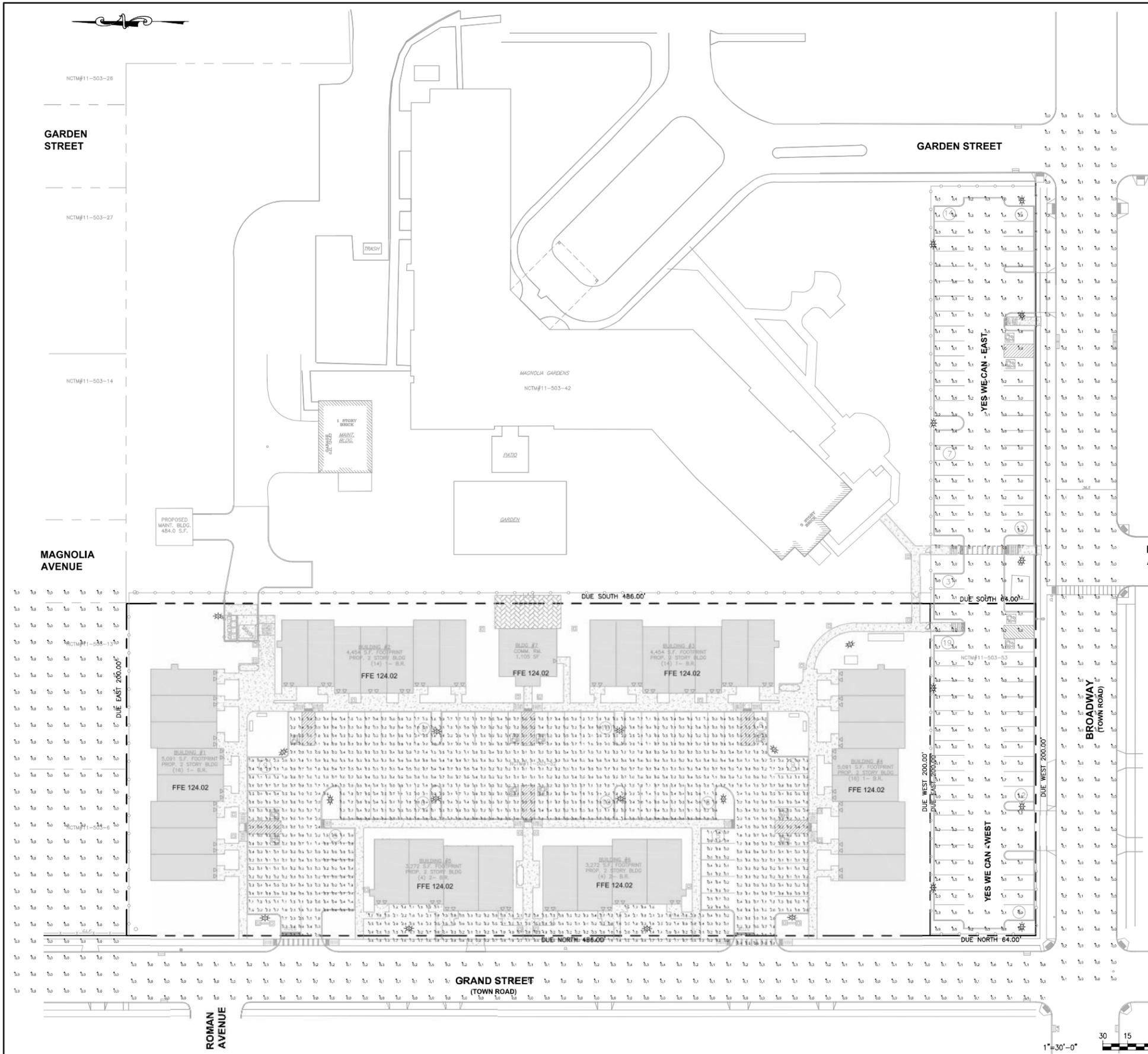


NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET HOMES

CONTRACT NO.
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO. 5081
 DATE: FEBRUARY 2018
 SCALE: 1"=30'
C7

11081 - Grand Street Homes - Erosion and Sediment Control Plan - 2/18 - 1/2018 - 1/2018 - 1/2018 - 1/2018

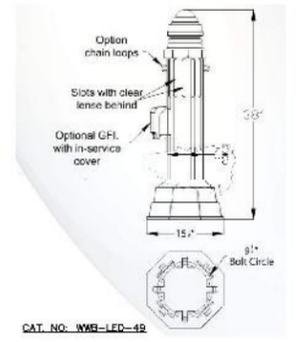


Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LU	Description
☐	22	Wellwood Bollard-49C-T5-MH	3'x6'x1'	27K-3	2.4-8	
☒	23	L10-EDC-49-T5-Bus00811	3'x6'x1'	N/A	3.7-8	1.1-1.25-49-12

Grand Street Homes

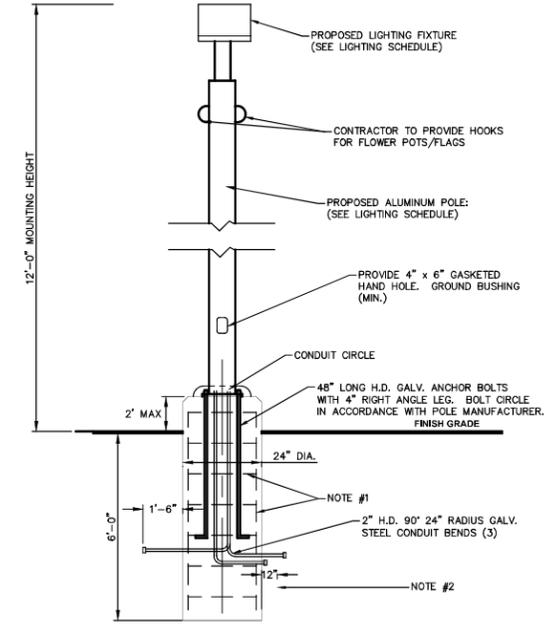
Label	Calc-Type	Units	Avg	Min	Max/Min
Area behind Big 5 & 6	Illuminance	Fc	1.21	15.3	13.10
Garbage area	Illuminance	Fc	2.81	16.3	20.10
grand st	Illuminance	Fc	0.11	1.2	N.A.
left side stray light	Illuminance	Fc	0.00	0.0	N.A.
Broadway	Illuminance	Fc	0.08	1.2	N.A.
Parking lot	Illuminance	Fc	0.77	2.7	7.10
Parking lot_1	Illuminance	Fc	0.50	2.8	N.A.
walkway	Illuminance	Fc	0.02	2.8	9.20

- GENERAL NOTES:**
1. FIXTURE SELECTION AND POINT BY POINT PHOTOMETRIC CALCULATIONS WERE PROVIDED TO D&B BY MAGNIFLOOD INC.
 2. LIGHTS TO BE SHIELDED AS REQUIRED.
 3. LIGHT LEVELS ARE BASED ON CONTRIBUTIONS FROM PROPOSED SITE LIGHTING FIXTURES ONLY.
 4. MH=12 DENOTES MOUNTING HEIGHT EQUALS 12 FEET.
 5. SEE ALSO CIRCUITING PLANS AS PREPARED BY THE PROJECT M.E.P. ENGINEER.



WELLWOOD BOLLARD DETAIL

- SCALE: N.T.S.
- NOTES:
1. INSTALL PER MANUFACTURERS SPECIFICATIONS



- NOTES:**
1. 4000 P.S.I. CONC. BASE, TUBE FORMED. PROVIDE (6) No. 6 RODS SET VERTICALLY ALL AROUND ON A 18" DIA. CIRCLE, TIED WITH (7) No. HOOPS AT 12" O.C. (MAX.). EACH HOOP TO BE LAPPED MIN. 12". TOP OF FOUNDATION TO BE LEVEL.
 2. COPPER WELD GROUND ROD 3/8" DIA. x 10'-0" LONG CAST IN FOUNDATION. BOND TRANSFORMER BASE, CONDUIT BUSHINGS AND BALLAST CASING TO GROUND ROD BY MEANS OF No. 4 BARE STANDED WIRE IN AN APPROVED MANNER.
 3. CONTRACTOR SHALL VERIFY INDIVIDUAL MANUFACTURER REQUIREMENTS PRIOR TO FABRICATING FOUNDATIONS. FOUNDATIONS SHALL BE COORDINATED WITH MANUFACTURER BY CONTRACTOR.
 4. REFER TO SITE PLAN FOR LIGHTING LAYOUT AND FIXTURES.

STANDARD LIGHTING POLE / POLE FOUNDATION DETAIL

SCALE: N.T.S.



NO.	DATE	REVISION	INT.



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NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK

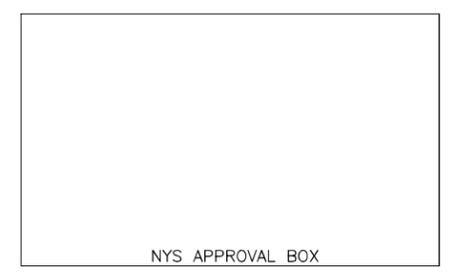
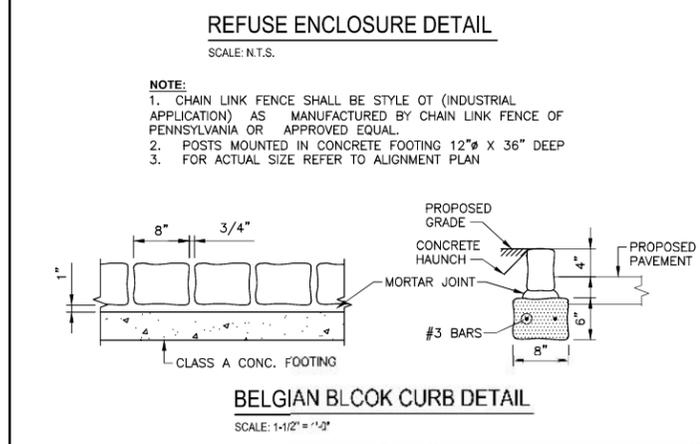
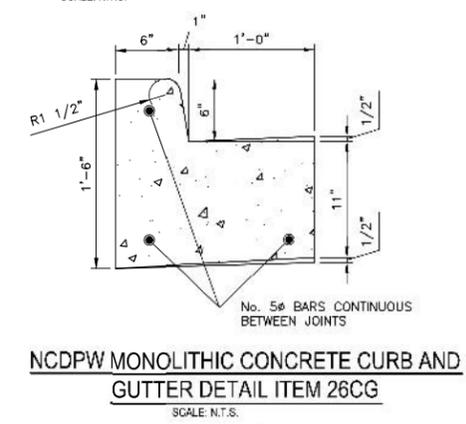
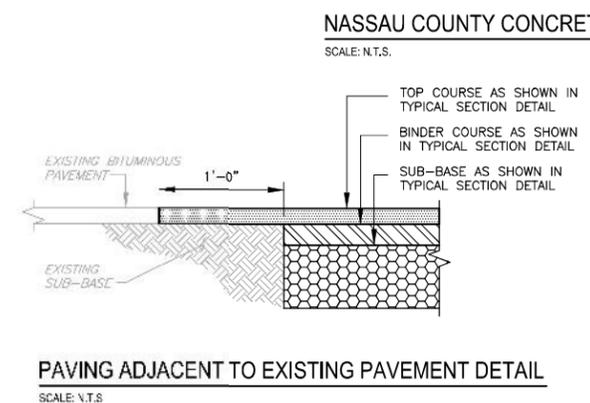
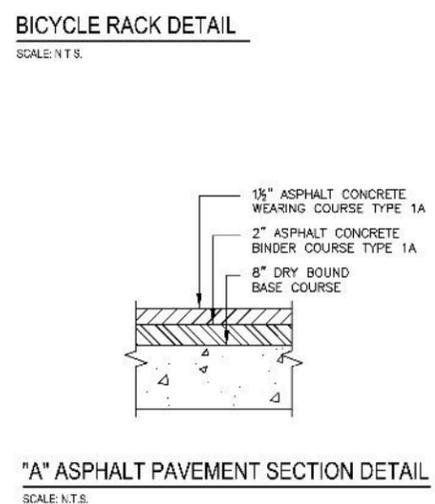
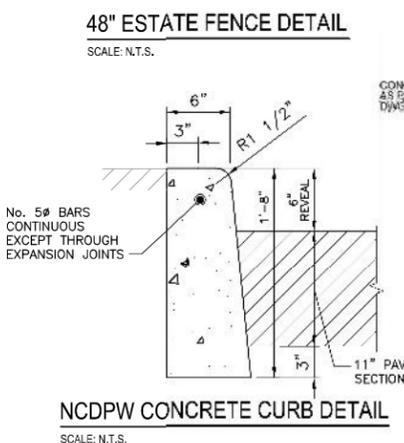
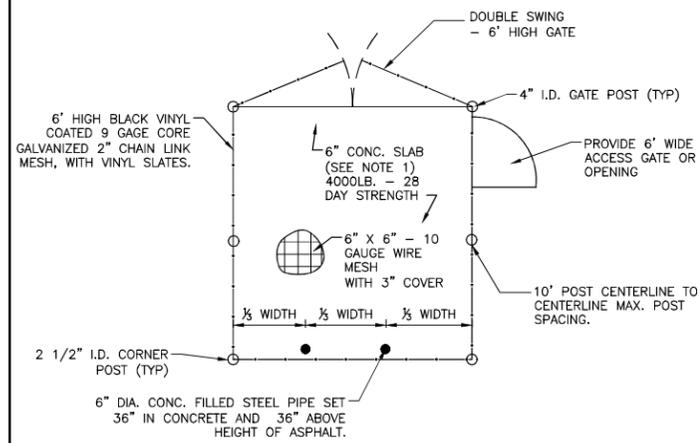
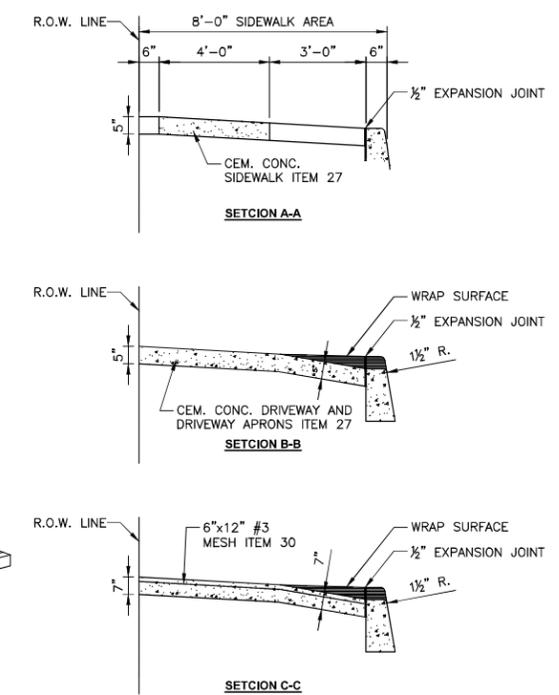
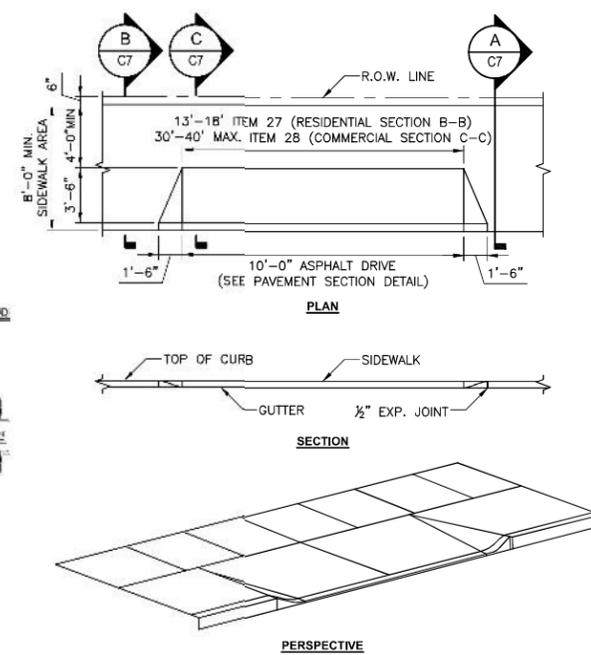
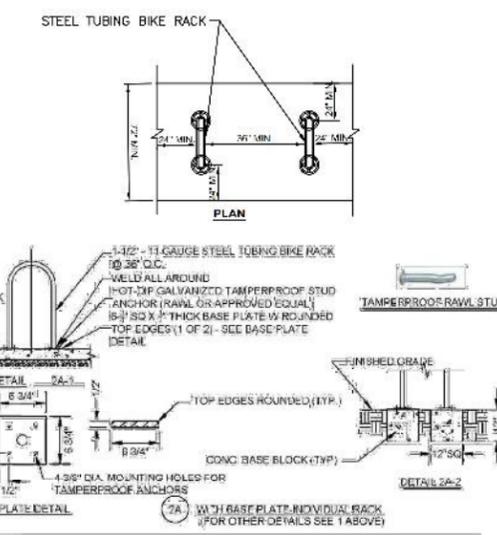
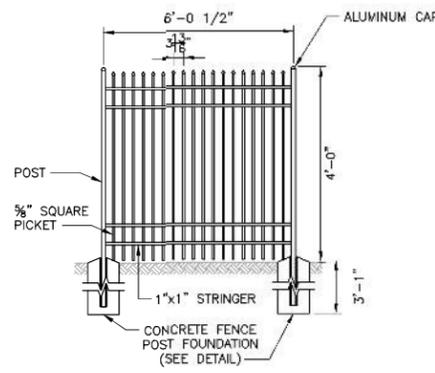
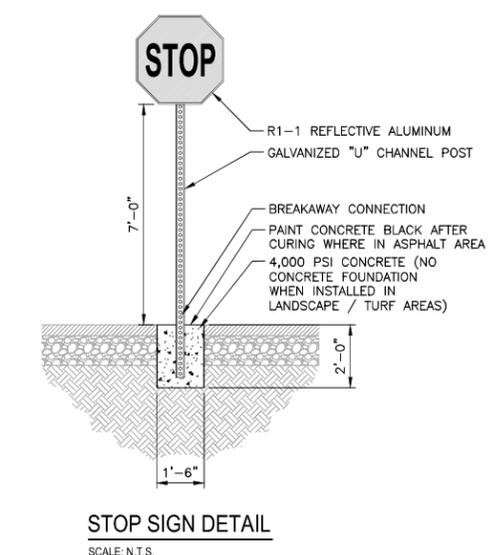
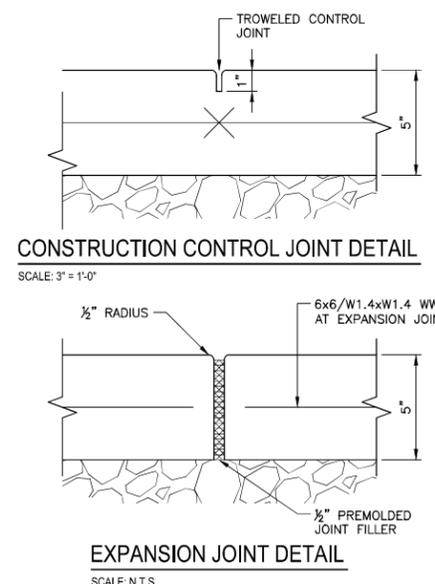
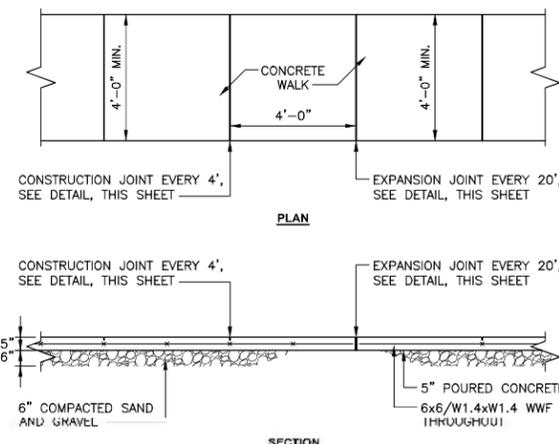
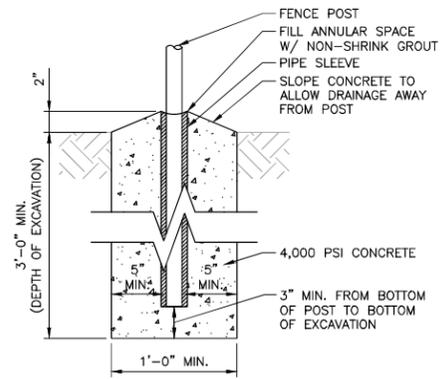
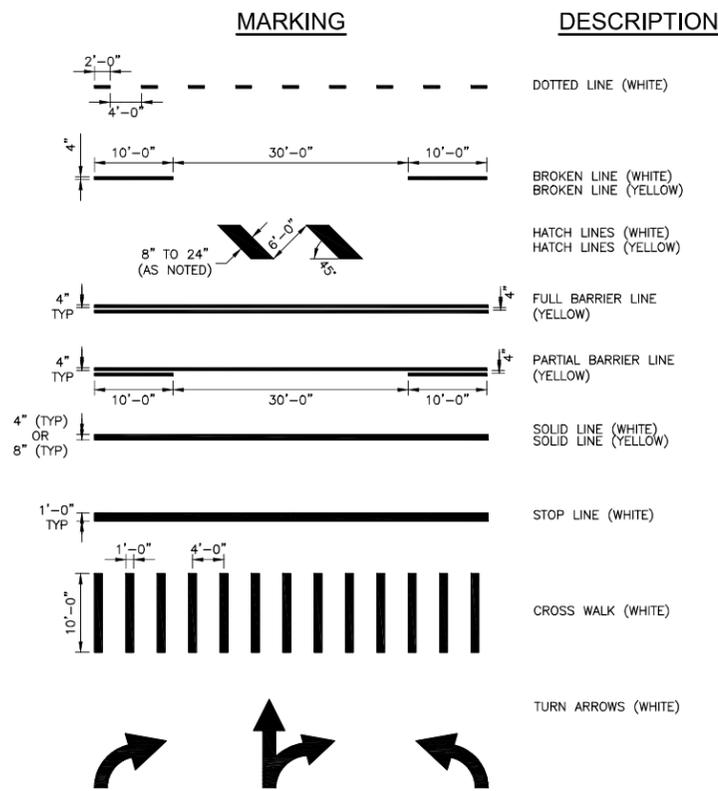
GRAND STREET HOMES

CONTRACT NO. _____

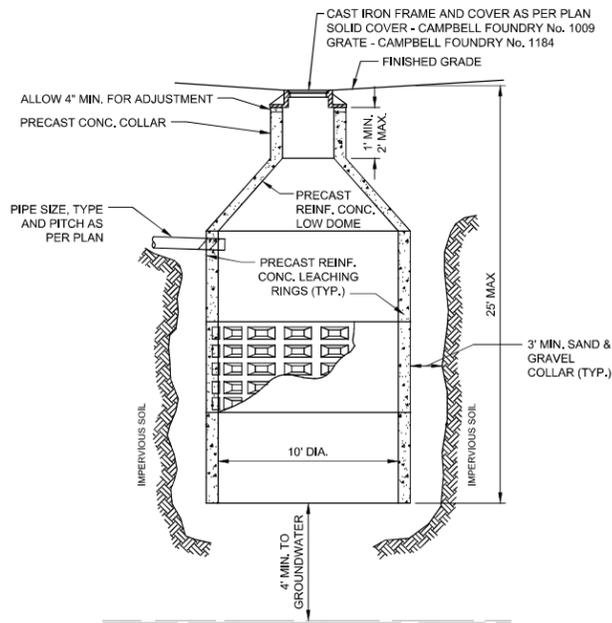
SITE LIGHTING PLAN

PROJECT NO. 5081
DATE: FEBRUARY 2018
SCALE: 1"=30'
DRAWING NO. **C8**

PAVEMENT MARKING LEGEND

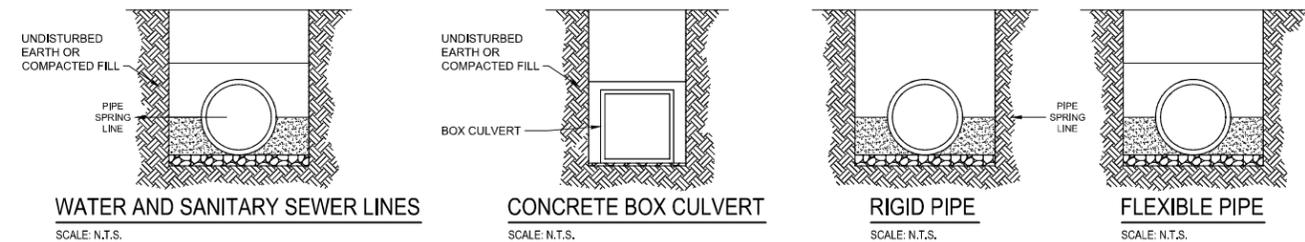


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PROJECT ENGINEER: AC DRAWN BY: DS CHECKED BY: STM		DESIGNER: AC/DS		NORTH HEMPSTEAD HOUSING AUTHORITY NEW YORK		SITE DETAILS		GRAND STREET HOMES		



DRAINAGE LEACHING POOL DETAIL (LP)
SCALE: N.T.S.

- NOTES:**
- ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM 2'-0" OF 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 6" IS THEN TO BE EXCAVATED INTO THE VIRGIN SAND AND GRAVEL. ALL BACKFILL MUST BE CLEAN AND ACCEPTABLE MATERIAL PLACED UNDER THE SUPERVISION OF THE TOWN ENGINEER. PROVIDE 2" OF CLEAN SAND AND GRAVEL INSIDE THE BASE OF THE BASIN.
 - STEEL REINFORCED IN TOP SLAB # 5 BARS 6" EACH WAY.
 - FILTER FABRIC SHALL BE MIRAFI 160N OR APPROVED EQUAL. (MAXIMUM APPARENT OPENING SIZE (AOS) SHALL BE 0.212 MM AS PER ASTM D4751).
 - CONCRETE: 4,000 PSI AT 28 DAYS, WWF A-185, REBAR: ASTM A-615, GRADE 60, TOP DOME DESIGNED FOR AASHTO H-20 LOADING.
 - 4" MIN. DRAINAGE RINGS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC BY PHILLIPS PETROLEUM CO. SUPAC 4NP OR AN APPROVED EQUAL.
 - 6" MIN. PENETRATION BELOW BOTTOM OF POOL.



WATER AND SANITARY SEWER LINES
SCALE: N.T.S.

CONCRETE BOX CULVERT
SCALE: N.T.S.

RIGID PIPE
SCALE: N.T.S.

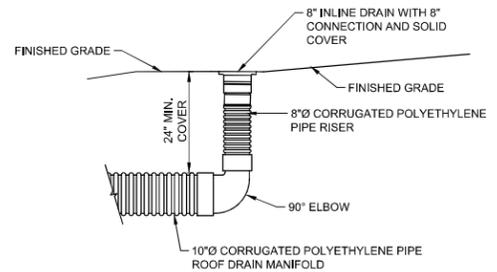
FLEXIBLE PIPE
SCALE: N.T.S.

- GENERAL NOTES:**
- BEDDING SHALL BE DUMPED CLASS I-A WORKED BY HAND, OR CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. LOCAL CODE PERMITTING WITH GEOTECHNICAL ENGINEER AND OWNER APPROVAL, NATIVE SOIL MAY BE USED FOR BEDDING PROVIDED IT MEETS THE EMBEDMENT AND BACKFILL MATERIALS IN TABLE 1 EXCLUDING CLASS IV-A.
 - HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR. PEA GRAVEL SHALL NOT BE USED AS A HAUNCHING MATERIAL. CLASS III MATERIAL SHALL BE ALLOWED FOR RIGID PIPE COMPACTED AT 95% STANDARD PROCTOR.
 - INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 90% STANDARD PROCTOR, OR CLASS III COMPACTED 95% STANDARD PROCTOR. CLASS I & II MATERIAL SHALL BE USED FOR FLEXIBLE PIPE WHEN FILL HEIGHTS EXCEED 8'.
 - FINAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 90% STANDARD PROCTOR, OR CLASS III COMPACTED TO 95% STANDARD PROCTOR.
 - FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
 - ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321, (SEE TABLE 1)
 - ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8' LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
 - FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
 - ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.
 - DESIGN ENGINEER SHALL DESIGNATE ON THE PLANS WHERE WATERTIGHT JOINTS ARE TO BE REQUIRED.
 - REPLACE WET OR UNSUITABLE SOIL AS NECESSARY TO PROVIDE A SUITABLE BASE, AS DIRECTED BY GEOTECHNICAL ENGINEER OR OWNER.
 - WHERE GROUND WATER IS PRESENT CLASS I-A MATERIAL SHALL BE WRAPPED WITH A NON-WOVEN GEO-TEXTILE, EXCLUDING BEDDING MATERIAL BETWEEN 4" & 6" THICK.
 - CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR SOIL TYPE AND CLASSIFICATIONS FOR THIS PROJECT.
 - CONTRACTOR SHALL REFER TO THE LATEST VERSION OF ASTM STANDARDS PRIOR TO CONSTRUCTION.

TABLE 1: CLASSES OF EMBEDMENT AND BACKFILL MATERIALS

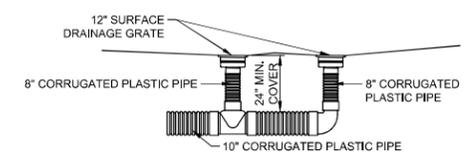
ASTM D 2321 MATERIAL CLASS	ASTM D 2487 USCS SOIL GROUP	MATERIAL TYPE	% PASSING			ATTERBERG LIMITS	
			1 1/2 IN.	NO. 4	NO. 200	LL	PI
IA	NONE	MANUFACTURED OPEN GRADED AGGREGATES	100%	<10%	<5%		NON PLASTIC
IB	NONE	MANUFACTURED DENSE GRADED AGGREGATES	100%	<50%	<5%		NON PLASTIC
II	GW	COARSE-GRAINED SOILS, CLEAN	100%	<50% OF "COARSE FRACTION"	<5%		NON PLASTIC
	GP						
	SW						
	SP						
III	GM	COARSE-GRAINED SOILS W/ FINES	100%	<50% OF "COARSE FRACTION"	12% TO 50%		<4 OR <"A" LINE
	GC						<7 OR >"A" LINE
	SM						>4 OR <"A" LINE
	SC						>7 OR >"A" LINE
IV-A	ML	FINE-GRAINED SOILS	100%	100%	>50%	<50	<4 OR <"A" LINE
	CL						>7 OR >"A" LINE

TRENCH AND BEDDING DETAILS
SCALE: N.T.S.

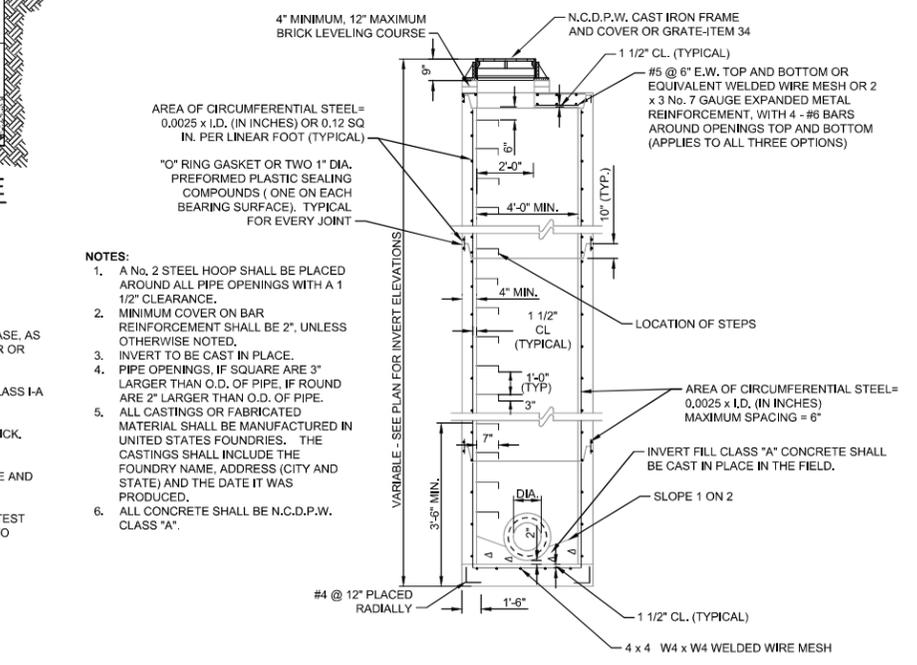


ROOF DRAIN MANIFOLD CLEAN-OUT DETAIL
SCALE: N.T.S.

- NOTES:**
- INLINE DRAIN AS MANUFACTURED BY NYOPLAST OR AN APPROVED EQUAL. INSTALLATION SHALL COMPLY WITH MANUFACTURERS RECOMMENDATIONS.

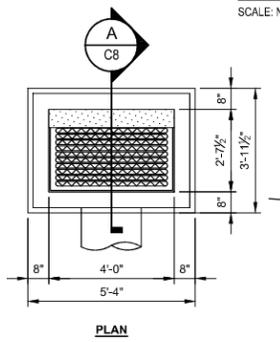


INLINE DRAIN DETAIL
SCALE: N.T.S.



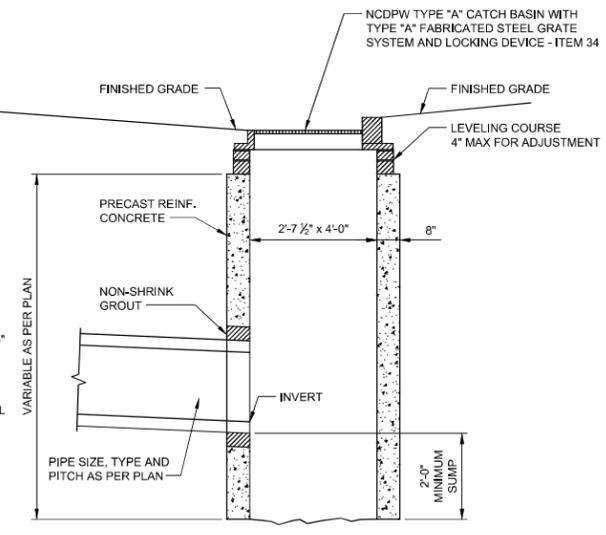
4' DIAMETER PRECAST MANHOLE DETAIL (ITEM 13BX)
SCALE: N.T.S.

- NOTES:**
- A No. 2 STEEL HOOP SHALL BE PLACED AROUND ALL PIPE OPENINGS WITH A 1 1/2" CLEARANCE.
 - MINIMUM COVER ON BAR REINFORCEMENT SHALL BE 2", UNLESS OTHERWISE NOTED.
 - INVERT TO BE CAST IN PLACE.
 - PIPE OPENINGS, IF SQUARE ARE 3" LARGER THAN O.D. OF PIPE, IF ROUND ARE 2" LARGER THAN O.D. OF PIPE.
 - ALL CASTINGS OR FABRICATED MATERIAL SHALL BE MANUFACTURED IN UNITED STATES FOUNDRIES. THE CASTINGS SHALL INCLUDE THE FOUNDRY NAME, ADDRESS (CITY AND STATE) AND THE DATE IT WAS PRODUCED.
 - ALL CONCRETE SHALL BE N.C.D.P.W. CLASS "A".



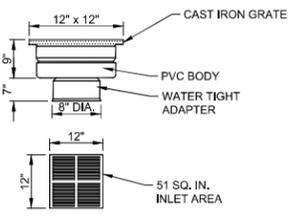
PLAN

- NOTES:**
- CATCH BASIN SHALL CONFORM TO N.C.D.P.W. STANDARDS
 - ALL CATCH BASINS WITH MORE THAN ONE (1) PIPE CONNECTION SHALL BE N.C.D.P.W. TYPE "B" MODIFIED.
 - ALL CONCRETE SHALL BE N.C.D.P.W. CLASS "A".
 - ALL DRAINAGE PIPES SHALL HAVE 2" MINIMUM COVER.
 - ALL CASTINGS OR FABRICATED MATERIAL SHALL BE MANUFACTURED IN UNITED STATES FOUNDRIES. THE CASTINGS SHALL INCLUDE THE FOUNDRY NAME, ADDRESS (CITY AND STATE) AND THE DATE IT WAS PRODUCED.



SECTION A

NASSAU COUNTY CATCH BASIN TYPE "A" MODIFIED DETAIL - ITEM 13AX
SCALE: N.T.S.



12" SURFACE DRAINAGE GRATE DETAIL
SCALE: N.T.S.

NYS APPROVAL BOX

BORING No.	DATE	REPORT ON BORING	GENERAL NOTES
1	11/23/17	REPORT ON BORING	GENERAL NOTES
5	11/23/17	REPORT ON BORING	GENERAL NOTES
6	12/22/17	REPORT ON BORING	GENERAL NOTES
10	11/23/17	REPORT ON BORING	GENERAL NOTES
15	11/23/17	REPORT ON BORING	GENERAL NOTES
20	11/23/17	REPORT ON BORING	GENERAL NOTES
25	11/23/17	REPORT ON BORING	GENERAL NOTES

NO.	DATE	REVISION	INT.



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PROJECT: HNSHP-14
DESIGNED BY: AC/DS
DRAWN BY: DS
CHECKED BY: STM



NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK

GRAND STREET HOMES

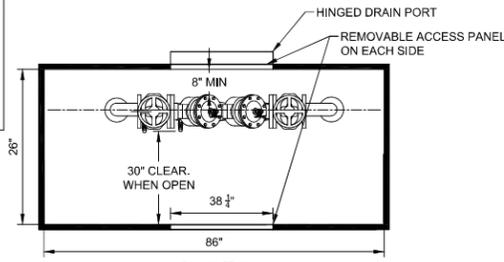
DRAINAGE DETAILS

PROJECT NO: 5081
DATE: FEBRUARY 2018
SCALE: AS NOTED

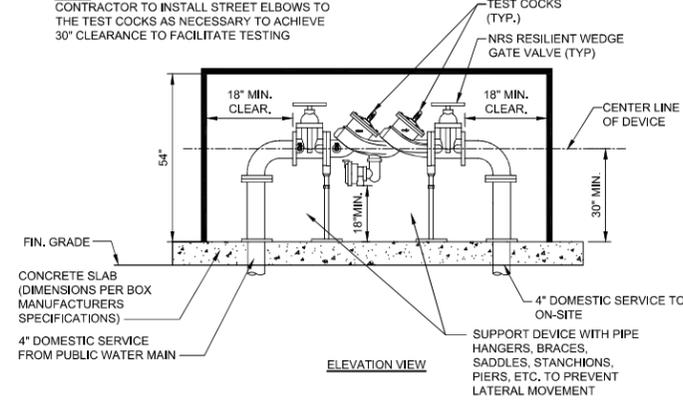
DRAWING NO: **C10**

DEVICE SHALL BE 4"Ø FEBCO MODEL LF860 OR APPROVED EQUAL (MUST BE LISTED AS AN APPROVED DEVICE FROM USC FOUNDATION FOR CROSS CONNECTION CONTROL)

ENCLOSURE TO BE SAFE-T-COVER MODEL 400T-AL HEATED ENCLOSURE, OR APPROVED EQUAL.



NOTE: CONTRACTOR TO INSTALL STREET ELBOWS TO THE TEST COCKS AS NECESSARY TO ACHIEVE 30" CLEARANCE TO FACILITATE TESTING

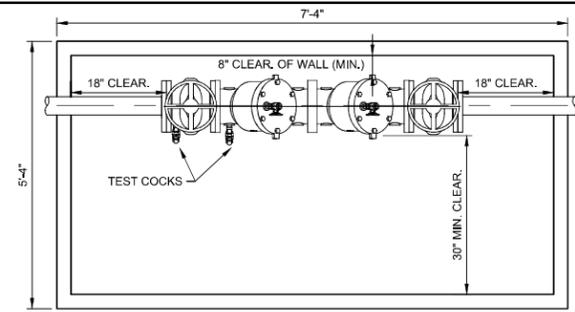


4"Ø DOMESTIC RPZ IN SAFE-T-COVER ENCLOSURE

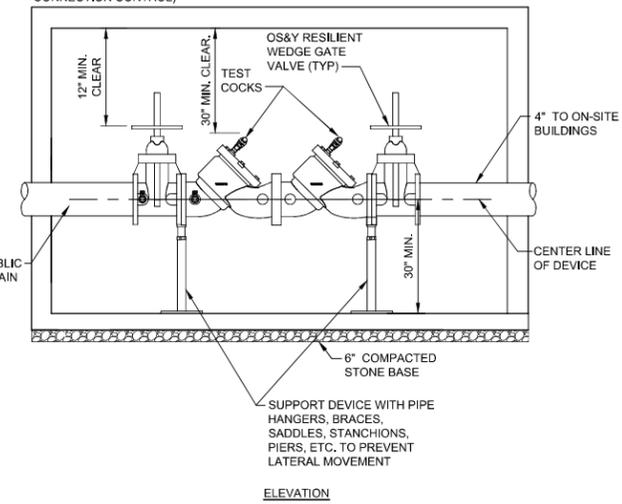
SCALE: N.T.S.

NOTES:

- DCV/RPZ INSTALLATION TO MEET ALL NCHD AND NYSHD REQUIREMENTS.
- DEVICES MUST NOT BE SUBJECT TO FLOODING OR FREEZING.
- PIPING TO BE UNBRANCHED AND UNRESTRICTED FROM MAIN TO DEVICE EXCEPT FOR METER.
- DEVICES MUST BE TESTED AT LEAST ANNUALLY BY A NYSHD CERTIFIED TESTER
- DRAINAGE TO BE POSITIVE WITH EFFLUENT VISIBLE.
- PROPER MAINTENANCE MUST BE PERFORMED.
- BACK FLOW PREVENTION DEVICE MUST BE LEAD FREE.
- ADEQUATE ELECTRIC POWER NECESSARY FOR HEATER (120 VAC/20 AMP SERVICE). ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH NATIONAL AND LOCAL CODES.
- TEST COCKS MUST HAVE 30" MIN. CLEARANCE WHEN BOX IS OPENED.
- ENCLOSURE MUST HAVE WEEP HOLES FOR DRAINAGE.
- PROPER MAINTENANCE MUST BE PERFORMED.
- DEVICE MUST BE LISTED AS AN APPROVED DEVICE FROM USC FOUNDATION FOR CROSS CONNECTION CONTROL.
- RESILIENT WEDGE OR BALL VALVES TO BE USED.
- ENCLOSURE TO BE SAFE-T-COVER MODEL 400T-AL HEATED ENCLOSURE, OR APPROVED EQUAL.
- ENCLOSURE TO BE N.Y. DESIGNATION.
- ALL CONCRETE SHALL HAVE AN UNCONFINED COMPRESSIVE STRENGTH OF 4,000 PSI OR GREATER AT 28 DAYS.
- HEATER(S) TO BE HARD WIRED TO AN OUTLET ON A GFI CIRCUIT.



NOTE: DEVICE SHALL BE 4"Ø WATTS MODEL 709 OR APPROVED EQUAL (MUST BE LISTED AS AN APPROVED DEVICE FROM USC FOUNDATION FOR CROSS CONNECTION CONTROL)

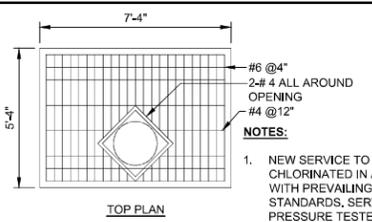


4"Ø FIRE SERVICE DCV IN CONCRETE VAULT

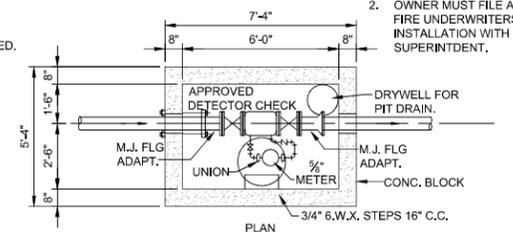
SCALE: N.T.S.

NOTES:

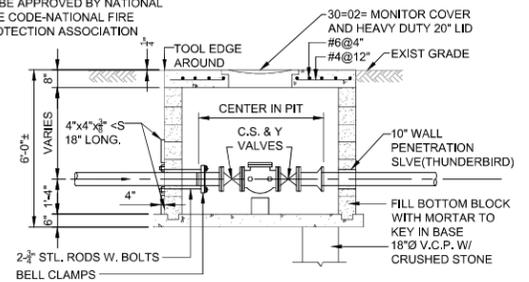
- DCV/RPZ INSTALLATION TO MEET ALL NCHD AND NYSHD REQUIREMENTS.
- DEVICES MUST NOT BE SUBJECT TO FLOODING OR FREEZING.
- PIPING TO BE UNBRANCHED AND UNRESTRICTED FROM MAIN TO DEVICE EXCEPT FOR METER.
- DEVICES MUST BE TESTED AT LEAST ANNUALLY BY A NYSHD CERTIFIED TESTER
- TEST COCKS MUST HAVE 30" MIN.
- PROPER MAINTENANCE MUST BE PERFORMED.
- DEVICE FROM N.Y.S. APPROVED LIST.
- RESILIENT WEDGE OR BALL VALVES TO BE USED.
- ALL CONCRETE SHALL HAVE AN UNCONFINED COMPRESSIVE STRENGTH OF 4,000 PSI OR GREATER AT 28 DAYS.



- NOTES:**
- NEW SERVICE TO BE FLUSHED & CHLORINATED IN ACCORDANCE WITH PREVAILING HEALTH DEPT. STANDARDS. SERVICE IS TO BE PRESSURE TESTED AT 200 PSI. FOR 120 MIN. WITH NO LEAKAGE IN PRESENCE OF DISTRICT SUPERINTENDENT.
 - OWNER MUST FILE APPROVAL OF THIS INSTALLATION WITH DISTRICT SUPERINTENDENT.

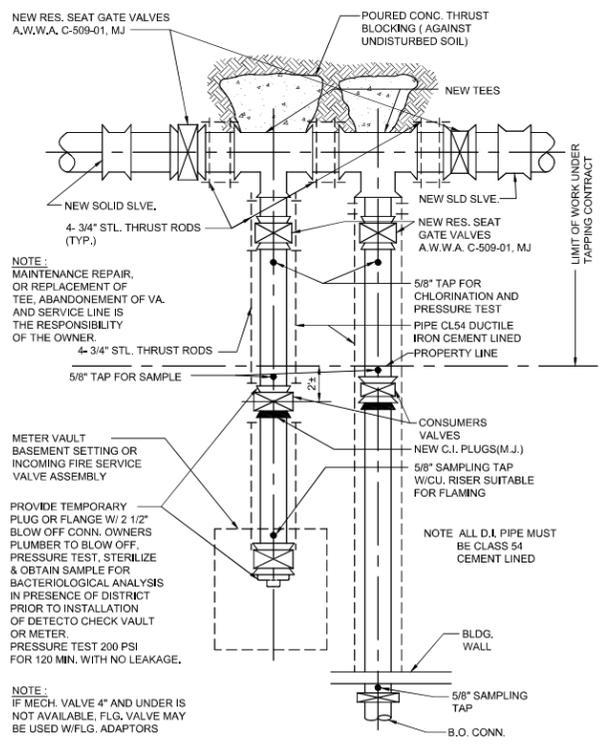


NOTE: DETECTOR CHECK VALVE TO BE APPROVED BY NATIONAL FIRE CODE-NATIONAL FIRE PROTECTION ASSOCIATION



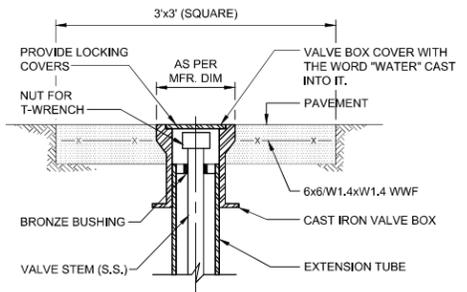
FIRE SPRINKLER SYSTEM DETECTOR CHECK VAULT STANDARD DETAIL

SCALE: N.T.S.



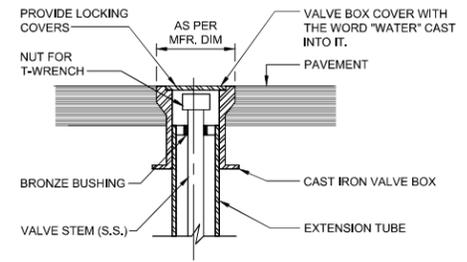
FIRE AND DOMESTIC SERVICE TAP 4" SERVICE

SCALE: N.T.S.



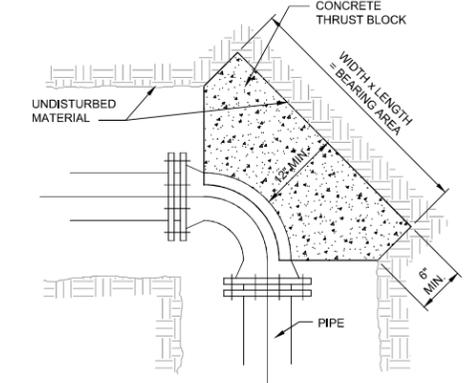
SLIDE TYPE VALVE BOX IN CONCRETE PAD

SCALE: N.T.S.



SLIDE TYPE VALVE BOX IN PAVEMENT

SCALE: N.T.S.

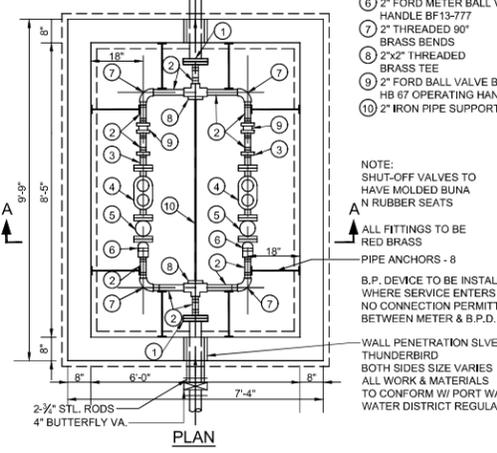
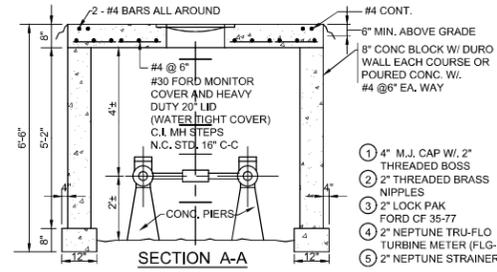


NOTE: THRUST BLOCKS SHALL BE PROVIDED PER SPECIFICATIONS AND SHALL OCCUR AT ALL CHANGES IN DIRECTION HORIZONTAL OR VERTICAL AND ALL OTHER POINTS REQUIRING RESISTANCE TO PRESSURE.

PIPE SIZE	FITTING TYPE					
	11-1/4"	22-1/2"	45"	90"	TEE	WYE
4"	1	1	1	2	1	-
6"	1	1	2	3	2	2

CONCRETE THRUST BLOCK DETAIL

SCALE: N.T.S.



(2) 2" METERS STANDARD DETAIL PIT SETTING

SCALE: N.T.S.



NO.	DATE	REVISION	INT.

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PROJECT ENGINEER: AC	DRAWN BY: DS
DESIGNED BY: AC/DS	CHECKED BY: STM

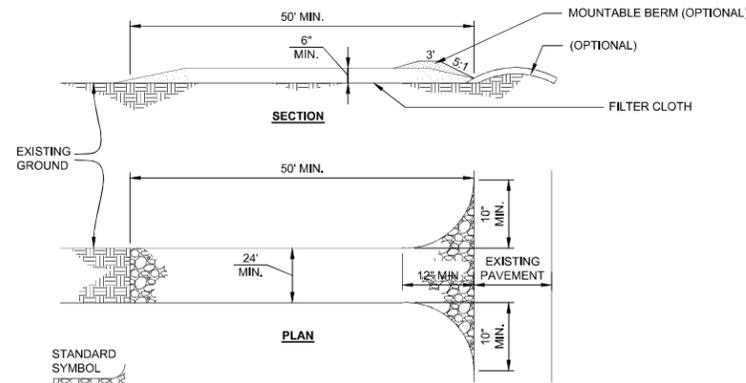


NORTH HEMPSTEAD HOUSING AUTHORITY	
NASSAU COUNTY	NEW YORK
GRAND STREET HOMES	

PROJECT NO. 5081	DRAWING NO. C12
DATE FEBRUARY 2018	SCALE AS NOTED

WATER SERVICE DETAILS	
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1/10/21 - Grand Street Homes C081_12.dwg 3/27/2018 11:24:47 AM D:\0101\p01.dwg



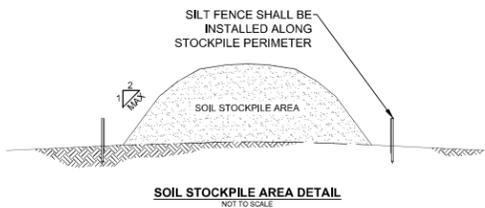
NOTES:

- STONE SIZE - USE 1 1/2" - 2 1/2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - 50 FEET MINIMUM.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWENTY FOUR (24) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH, MIRAFI OR APPROVED EQUAL, WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER-ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACTED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

NOTE:
THE SITE SHALL BE MAINTAINED IN SUCH A WAY THAT ALL CONSTRUCTION VEHICLES EXITING THE SITE ONTO A PAVED SURFACE SHALL PASS OVER THE STABILIZED CONSTRUCTION ENTRANCE IF THEY HAVE TRANSFERSED OVER DISTURBED EARTH.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

SCALE: N.T.S.



NOTE:
SOIL STOCKPILES TO REMAIN INACTIVE FOR 7 DAYS OR GREATER MUST BE STABILIZED WITH TEMPORARY SEEDING OR MULCH (DEPENDING UPON WEATHER CONDITIONS) AND ENCLOSED WITH SILT FENCE.

CONSTRUCTION SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER
A) RYE GRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (0.7 LBS/1000 SF)

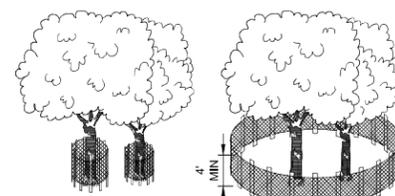
B) CERTIFIED "AROSTOOK" WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (2.5 LBS/SF) METHOD OF DUST CONTROL. TEMPORARY SEEDING SHALL BE AS FOLLOWS:

USE WINTER RYE IF SEEDING IN OCTOBER/NOVEMBER, HYDROSEED OR USE OF EROSION CONTROL BLANKETS/ANCHORING MAY BE NECESSARY TO ENSURE GOOD SEED TO SOIL CONTACT ON STEEP SLOPES AND TO MAINTAIN MOISTURE.

MULCH (INCLUDING GRAVEL MULCH) - MULCH OFFERS A FAST EFFECTIVE MEANS OF CONTROLLING DUST AND PROVIDES FOR STABILIZATION IN WINTER MONTHS. APPLICATION OF HAY MULCH SHALL BE 90LBS./1,000 SF WITH UNIFORM APPLICATION OR APPROVED EQUAL. MULCH ANCHORING OR MACHINE TRACKING MAY BE NECESSARY TO ENSURE STABILIZATION.

SOIL STOCKPILE AREA DETAIL

SCALE: N.T.S.

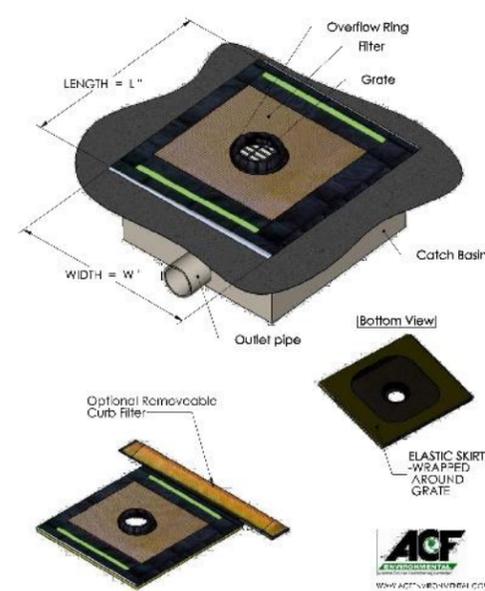


NOTES:

- TREE PROTECTION BARRIERS MUST BE PLACED AROUND TREES TO BE RETAINED WITHIN AN AREA WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES WILL OCCUR. TREES TO REMAIN SHALL BE INDICATED ON THE PLANS.
- TREE PROTECTION BARRIER MUST REMAIN IN PLACE UNTIL GRADING AND CONSTRUCTION ACTIVITY IS COMPLETE OR UNTIL COMMENCEMENT OF FINISH GRADING AND SODDING.
- BARRIERS SHALL BE PLACED AROUND TREES AT THE DRIPLINE EXCEPT WHERE LAND ALTERATION OR CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE DRIPLINE.
- THE DRIPLINE OF A TREE IS THE IMAGINARY VERTICAL LINE THAT EXTENDS DOWNWARD FROM THE OUTERMOST TIPS OF THE TREE'S BRANCHES TO THE GROUND.)
- AREAS SURROUNDED BY THE TREE PROTECTION BARRIERS SHALL BE PROTECTED FROM VEGETATION REMOVAL, PLACEMENT OF SOIL, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND.
- ALL TREE ROOTS WITHIN AREA TO BE GRADED AND ORIGINATING FROM A PROTECTED TREE SHALL BE SEVERED CLEANLY AT THE LIMITS OF THE PROTECTED AREA.
- ALL TREE PRUNING AND TRIMMING ON ANY TREE TO BE RETAINED SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE AMERICAN SOCIETY OF ARBORICULTURE (ASA).
- 2'x2' TREE PROTECTION SIGNS SPACED A MINIMUM OF ON SIGN EVERY 300' SHALL CONTAIN THE WORDING "TREE PROTECTION ZONE - KEEP OUT".

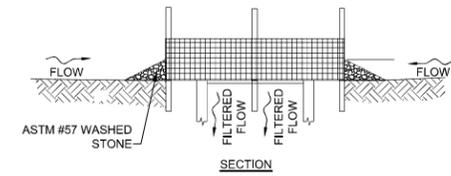
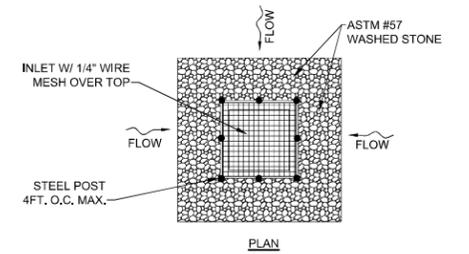
TREE PROTECTION BARRIER

SCALE: N.T.S.



INLET PROTECTION "GRATE GATOR TYPE A" DETAIL

SCALE: N.T.S.

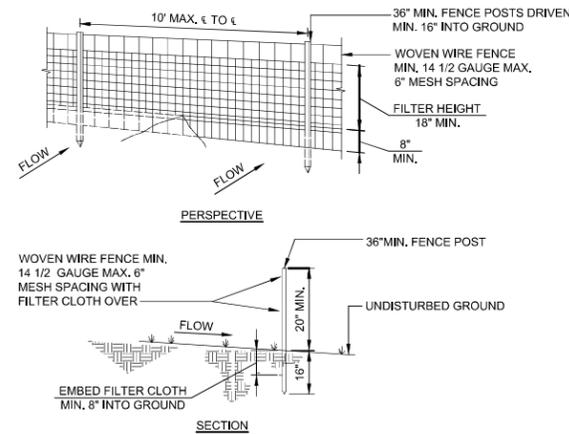


NOTES:

- SEDIMENT CONTROL STONE SHALL BE 3/4" WASHED STONE.
- WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4" INCH MESH
- TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
- STEEL POST SHALL BE 5 FT. IN LENGTH, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
- WOOD POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER.
- POST SPACING SHALL BE A MAXIMUM OF 4 FT.

INLET PROTECTION

SCALE: N.T.S.



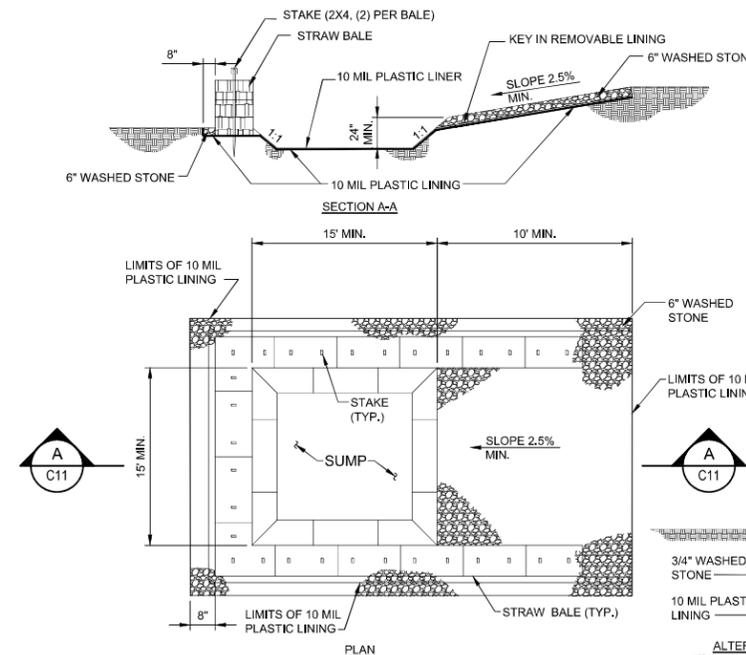
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO THE START OF STOCKPILING.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 / GA. 6" MAX. MESH OPENING
FILTER CLOTH: FILTER, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SEDIMENT FENCE DETAIL

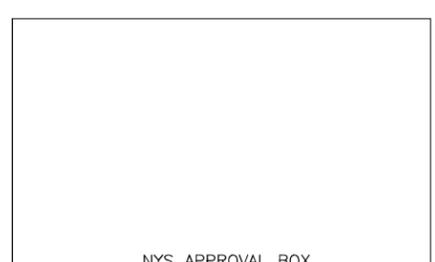
SCALE: N.T.S.



- NOTES:**
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12."
 - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
 - SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
 - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

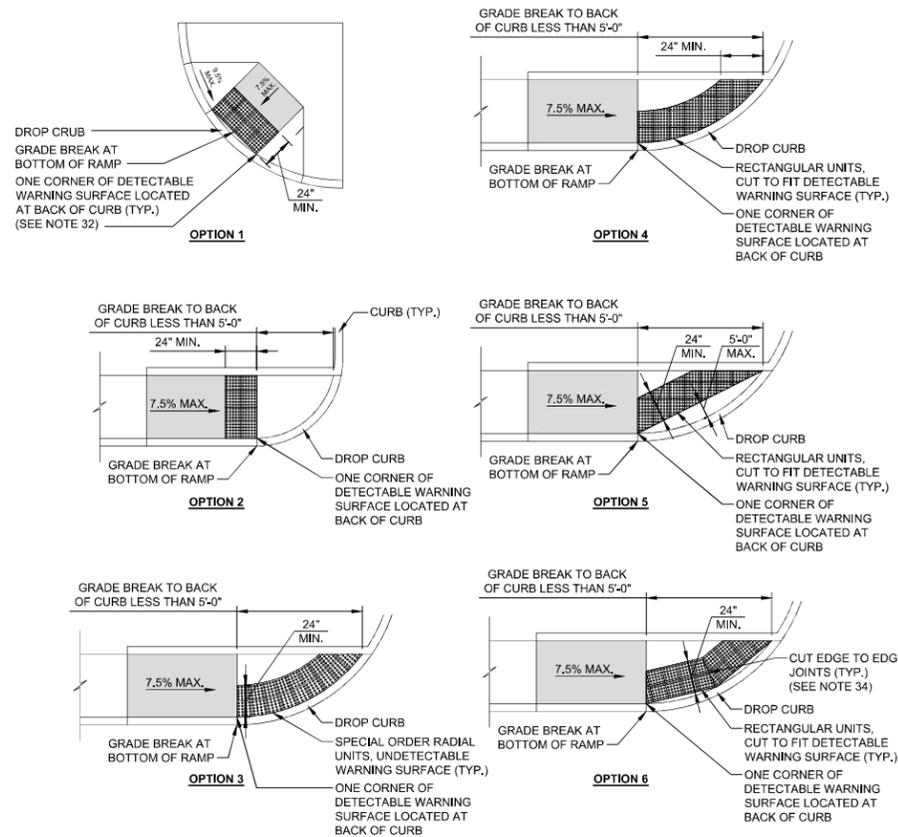


WASHOUT SIGN



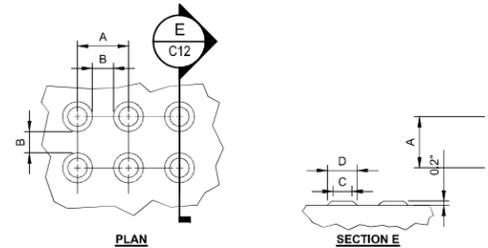
		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.		D&B ENGINEERS AND ARCHITECTS, P.C.		NORTH HEMPSTEAD HOUSING AUTHORITY NASSAU COUNTY NEW YORK		PROJECT NO. 5081 DATE: FEBRUARY 2018 SCALE: AS NOTED		DRAWING NO. C13	
DESIGNED BY: AC/DS CHECKED BY: STM		DRAWN BY: DS PROJECT ENGINEER: AC				GRAND STREET HOMES		EROSION & SEDIMENT CONRTOL DETAILS		NYS APPROVAL BOX	
NO.	DATE	REVISION	INT.								

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DETECTABLE WARNING SURFACE PLACEMENT OPTION DETAILS

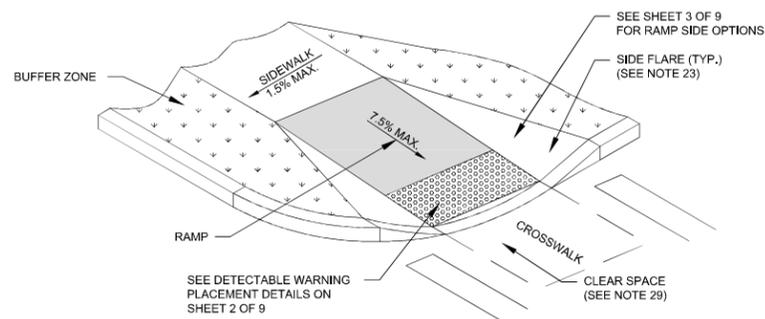
SCALE: N.T.S.



TRUNCATED DOME DIMENSIONS		
DIM.	MIN. (IN)	MAX. (IN)
A	1.6"	2.4"
B	0.65"	1.5"
C	50% - 65% OF D DIM.	
D	0.9"	1.4"

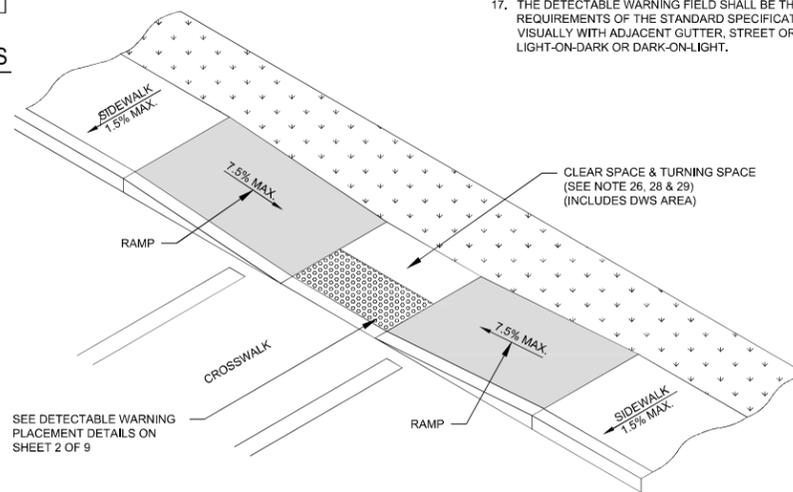
DETECTABLE WARNING SURFACE (DWS) TRUNCATED DOME DETAILS

SCALE: N.T.S.



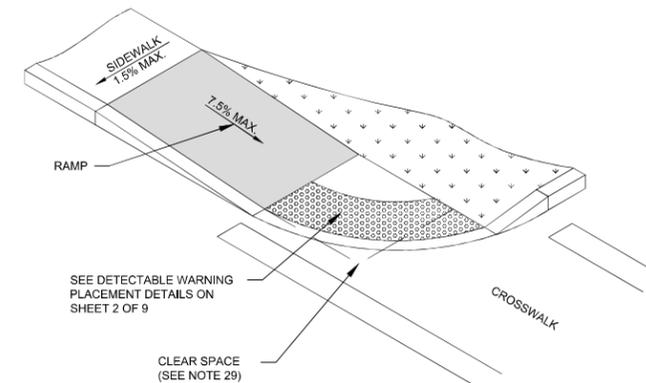
CURB RAMP CONFIGURATION: TYPE 1

SCALE: N.T.S.



CURB RAMP CONFIGURATION: TYPE 9

SCALE: N.T.S.



CURB RAMP CONFIGURATION: TYPE 2

SCALE: N.T.S.

CURB RAMP NOTES:

- THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 4'-0".
 - THE GRADE (RUNNING SLOPE) OF A CURB RAMP SHALL BE A MINIMUM OF 5%, THE GRADE FOR DESIGN AND LAYOUT SHALL BE A MAXIMUM OF 7.5%. THE GRADE FOR ADA ACCESSIBILITY AND WORK ACCEPTANCE SHALL BE A MAXIMUM OF 8.3%.
 - WHERE EXISTING CONDITIONS DO NOT ALLOW THE CONSTRUCTION OF A CURB RAMP WITH A GRADE (RUNNING SLOPE) OF 8.3% OR LESS, THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15'-1" FOR DESIGN AND FIELD LAYOUT. THE RAMP LENGTH SHALL NOT BE REQUIRED TO EXCEED 15'-0" FOR WORK ACCEPTANCE.
 - THE CROSS SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS POSSIBLE AND STILL PROVIDE POSITIVE DRAINAGE. THE CROSS SLOPE OF A CURB RAMP SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. SEE NOTE 12 FOR EXCEPTIONS. WHERE THE EXISTING ROADWAY GRADE EXCEEDS 2%, THE CURB RAMP MAY BE WARPED TO TIE INTO THE DROP CURB.
 - RAMP SIDE OPTIONS FOR USE WITHIN THE BUFFER ZONE. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 9.5% FOR DESIGN AND LAYOUT, AND 10% MAXIMUM FOR WORK ACCEPTANCE. THE SLOPE OF FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE.
 - THE BACKSIDE OF A PARALLEL RAMP SHOULD BE GRADED TO A MAXIMUM SLOPE OF 25% TO MATCH EXISTING TERRAIN, UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS, WHERE GRADING IS NOT FEASIBLE DUE TO LIMITED ROW OR PHYSICAL CONSTRAINTS, A BACK CURB MAY BE INSTALLED.
 - DEPARTMENT PREFERENCE IS TO INSTALL TWO CURB RAMP AT A STREET CORNER THAT SERVES BOTH CROSSINGS, WHERE EXISTING PHYSICAL CONSTRAINTS PREVENT TWO CURB RAMP FROM BEING INSTALLED AT A STREET CORNER THAT SERVES BOTH CROSSINGS, A SINGLE DIAGONAL CURB RAMP WILL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.
- TURNING SPACE AND CLEAR SPACE NOTES:**
- WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE OR THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.
 - WHERE THERE ARE NO VERTICAL CONSTRAINTS AT THE BACK OF SIDEWALK, (E.G. VERTICAL CURB, BUILDINGS, FENCES) THE TURNING SPACE DIMENSIONS SHALL BE 4'-0" x 4'-0" MINIMUM, WHERE THE TURNING SPACE IS CONSTRAINED AT THE BACK OF SIDEWALK, THE TURNING SPACE SHALL 4'-0" x 5'-0" MINIMUM. THE 5'-0" DIMENSION SHALL BE PROVIDED PERPENDICULAR TO THE CONSTRAINT.
 - TURNING SPACES SHALL NOT BE DESIGNED WITH CROSS SLOPE GREATER THAN 1.5%, IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM CROSS SLOPE FOR WORK ACCEPTANCE IS 2.0%. A NONSTANDARD FEATURE JUSTIFICATION IS REQUIRED WHERE TURNING SPACES EXCEED 2.0% IN ANY DIRECTION.
 - BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4'-0" x 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

DETECTABLE WARNING NOTES:

- DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES:
 - CURB RAMP ARE BLENDED TRANSITIONS AT PEDESTRIAN STREET CROSSINGS.
 - PEDESTRIAN REFUGE ISLANDS (WHERE THE LENGTH OF THE PEDESTRIAN ACCESS ROUTE ACROSS THE REFUGE ISLAND IS GREATER THAN OR EQUAL TO 6 FEET).
 - PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.
- DETECTABLE WARNING SURFACES SHALL BE PROVIDED WHERE THE PEDESTRIAN ACCESS ROUTE CROSSES DRIVEWAYS WITH SIGNAL, YIELD OR STOP CONTROL. DETECTABLE WARNING SURFACES SHALL NOT BE PROVIDED AT CROSSINGS OF UNCONTROLLED DRIVEWAY APRONS.
- SOME DETECTABLE WARNING PRODUCTS REQUIRE A CONCRETE BORDER FOR PROPER INSTALLATION. IF REQUIRED, THE BORDER SHALL NOT EXCEED 2". WHERE THE BACK OF CURB EDGE IS TOOLED TO PROVIDE A RADIUS, THE BORDER DIMENSION SHALL BE MEASURED FROM THE INSIDE EDGE OF THE CURB RADIUS.
- THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT IS FOR ILLUSTRATION ONLY. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUDING ANY FLARED SIDES, THE WIDTH OF THE DETECTABLE WARNING FIELD INCLUDES A CONCRETE BORDER, IF PROVIDED.
- ON SLOPES OF 5% OR GREATER, THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE LOWER GRADE BREAK ON THE RAMP RUN. WHERE DOMES ARE ARRAYED RADIALY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON SHEET 2. ON SLOPES LESS THAN 5% DOME ORIENTATION IS LESS CRITICAL AND MAY DIFFER FROM PERPENDICULAR OR RADIAL ALIGNMENT TO THE GRADE BREAK.
- THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. DETECTABLE WARNING SURFACES SHALL CONSIST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

GENERAL NOTES:

- THESE SHEETS ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE REQUIREMENTS OF THE 2011 PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY (PROWAG).
- DIMENSIONS SHOWN IN THE DETAILS AS MINIMUMS AND MAXIMUMS ARE THE LIMITS FOR DESIGN AND FIELD LAYOUT. FACILITIES SHALL NOT BE CONSTRUCTED WITH VALUES OUTSIDE THE LIMITS FOR WORK ACCEPTANCE. SEE TABLE "DESIGN ELEMENT TOLERANCES" ON THIS SHEET. FURTHER INFORMATION IS PROVIDED ON "CRITICAL ELEMENTS FOR THE DESIGN, LAYOUT, AND ACCEPTANCE OF PEDESTRIAN FACILITIES" AVAILABLE ON THE N.Y.S.D.O.T HIGHWAY DESIGN MANUAL CHAPTER 18 WEB SITE.
- NOT ALL FACILITIES CAN BE CONSTRUCTED TO MEET THE DESIGN STANDARDS. FACILITIES THAT CANNOT BE CONSTRUCTED TO MEET THE DESIGN STANDARDS SHALL BE CONSTRUCTED TO MEET THE STANDARDS TO THE GREATEST EXTENT PRACTICABLE. NONSTANDARD FEATURES SHALL BE JUSTIFIED PER HIGHWAY DESIGN MANUAL CHAPTER 2, EXHIBIT 2-15A.
- TO CHECK FIELD LAYOUT AND TO VERIFY WORK ACCEPTANCE, ALL SLOPES AND GRADES WILL BE MEASURED WITH A 4 FOOT LONG DIGITAL LEVEL USING AT LEAST TWO READINGS. WHERE THE READINGS VARY, THE MEASUREMENTS WILL BE AVERAGED. GRADE (RUNNING SLOPE) WILL BE MEASURED ALONG THE CENTERLINE AND OFFSET 12" TO 18" FROM THE CENTERLINE. CROSS SLOPES WILL BE MEASURED PERPENDICULAR TO CENTERLINE AT 5' TO 10' INTERVALS.
- GRADES (RUNNING SLOPES) ARE MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPES ARE MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
- JOINTS BETWEEN SIDEWALKS, CURB RAMP, TURNING SPACES AND ROADWAYS SHALL BE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN 1/4". VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE JOINT.
- SIDEWALKS ARE CONNECTED TO ROADWAYS BY EITHER BLENDED TRANSITIONS OR CURB RAMP. BLENDED TRANSITIONS ARE CONNECTIONS BETWEEN THE SIDEWALK LEVEL AND THE ROADWAY LEVEL THAT HAVE A MAXIMUM GRADE (RUNNING SLOPE) OF 5% AND TRANSITIONS GREATER THAN 5% ARE CONSIDERED CURB RAMP.
- CURB RAMP AND BLENDED TRANSITIONS MAY REQUIRE THE INSTALLATION OF DETECTABLE WARNINGS. SEE ADDITIONAL "DETECTABLE WARNING NOTES" ON THIS SHEET, AND DETAILS FOR DIMENSIONS, ORIENTATION AND INSTALLATION.
- VERTICAL ALIGNMENT SHALL BE GENERALLY PLANAR. GRADE BREAKS WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND SHALL NOT BE ROUNDED.
- MATERIAL DEPTHS SHOWN ON THESE SHEETS ARE TYPICAL MINIMUM VALUES AND MAY BE DIFFERENT IN THE CONTRACT DOCUMENTS.
- SIDEWALK GRADE (RUNNING SLOPE) SHALL NOT BE DESIGNED TO EXCEED 4.5%, EXCEPT WHEN MATCHING INTO EXISTING SIDEWALK OR WHEN THE HIGHWAY GRADE IS STEEPER. WHEN HIGHWAY GRADE IS GREATER THAN 5%, THE SIDEWALK GRADE SHALL NOT EXCEED THE HIGHWAY GRADE.
- THE CROSS SLOPE OF PEDESTRIAN ACCESS ROUTES SHALL BE 1.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 2% MAXIMUM FOR WORK ACCEPTANCE. THE FOLLOWING EXCEPTIONS ARE ALLOWED:
 - WHERE PEDESTRIAN STREET CROSSINGS ARE PROVIDED AT INTERSECTIONS WITHOUT YIELD OR STOP CONTROL OR WHERE THERE IS ANY TRAFFIC SIGNAL WITHOUT A FLASHING RED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A STREET CROSSING SHALL BE 4.5% MAXIMUM FOR DESIGN AND LAYOUT, AND 5% MAXIMUM FOR WORK ACCEPTANCE.
 - WHERE MIDDLEBLOCK PEDESTRIAN STREET CROSSINGS ARE PROVIDED, THE CROSS SLOPE OF A PEDESTRIAN ACCESS ROUTE CONTAINED WITHIN A MIDDLEBLOCK STREET CROSSING SHALL BE PERMITTED TO EQUAL THE STREET OR HIGHWAY GRADE.
- THE MINIMUM CLEAR WIDTH FOR PEDESTRIAN ACCESS ROUTES IS 4'-0", EXCLUSIVE OF THE CURB. WHEN WALKWAY WIDTHS ARE LESS THAN 5'-0", 5'-0" x 5'-0" PASSING SPACES, OR A FEATURE OF EQUAL OR GREATER DIMENSION (E.G. DRIVEWAYS) THAT MEET THE SLOPE CRITERIA, SHALL BE PROVIDED AT A MINIMUM INTERVAL OF 200'. EXISTING DRIVEWAYS AND STREET CROSSING MAY ALSO SERVE AS PASSING SPACES.
- THE BUFFER ZONE IS A PRACTICAL DISTANCE SEPARATING THE PEDESTRIAN ACCESS ROUTE FROM THE VEHICLE TRAVEL WAY. THE BUFFER ZONE WAY MAY BE PLANTED OR PAVED. WHERE THE BUFFER ZONE WIDTH, EXCLUSIVE OF CURB, IS LESS THAN 3'-0" THE SURFACE SHOULD BE PAVED OR CONSTRUCTED WITH HARDSCAPE MATERIALS.
- THE MAXIMUM RECOMMENDED CROSS SLOPE OF A TURF BUFFER ZONE OR SLOPE TRANSITION BEHIND SIDEWALK IS 25%. BUFFER ZONES WITH A CROSS SLOPE GREATER THAN 25% SHOULD BE PAVED, PLANTED OR CONSTRUCTED WITH HARDSCAPE MATERIALS.
- WHEN CROSSING DRIVEWAYS, THE WORK SHALL BE IN CONFORMANCE WITH NYS DOT STANDARD SHEET 608-03.
- FOR PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS, REFER TO NYS DOT STANDARD SHEET 680-10 FOR DETAILS.
- WHERE EXISTING ROADWAYS ARE SAW CUT TO INSTALL CURBING AND/OR SIDEWALK, THE ROADWAY SHOULD BE SAWCUT AT LEAST 2'-0" FROM THE PROPOSED CURB LINE TO ALLOW FOR ADEQUATE COMPACTION OF ASPHALT IF SAWCUT IS LESS THAN 2'-0" FROM PROPOSED CURB LINE, THEN THE ROADWAY SHALL BE REBUILT USING CLASS C CONCRETE.

NYS APPROVAL BOX

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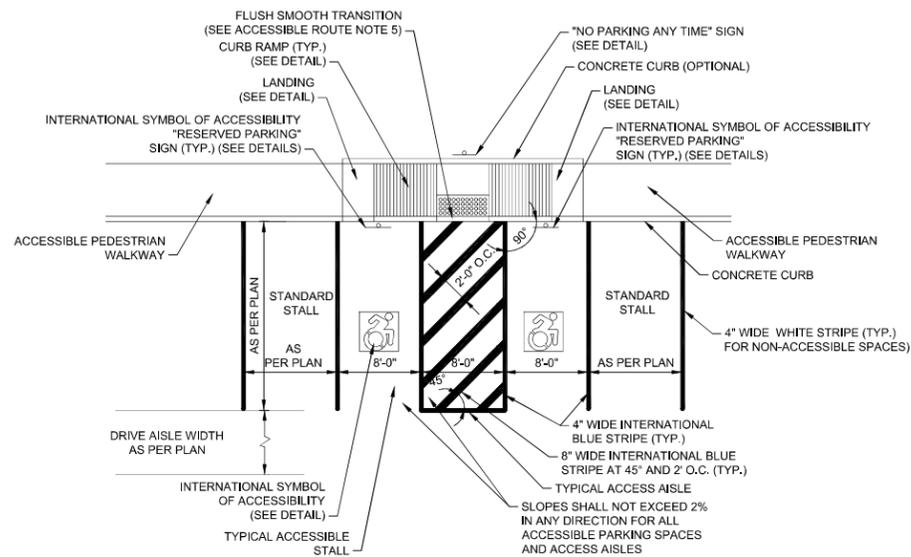


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DESIGNED BY: AC/DS	CHECKED BY: STM



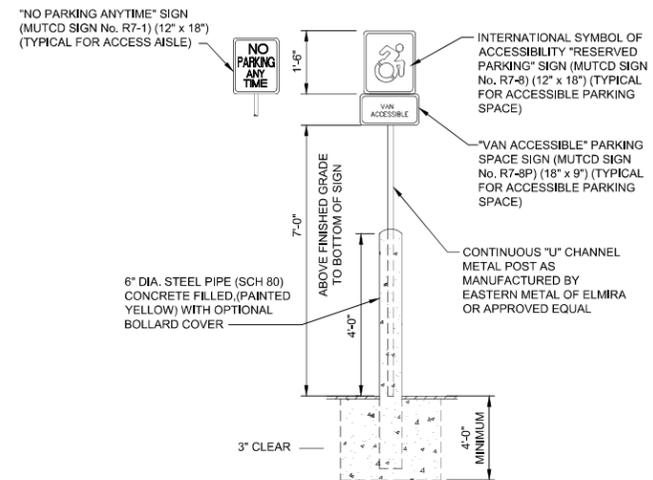
NORTH HEMPSTEAD HOUSING AUTHORITY	
NASSAU COUNTY	NEW YORK
GRAND STREET HOMES	

ACCESSIBILITY DETAILS I	
PROJECT NO: 5081	DRAWING NO. C14
DATE: FEBRUARY 2018	SCALE: AS NOTED



TYPICAL ACCESSIBLE PARKING LAYOUT

- NOTES:** SCALE: N.T.S.
1. THE ABOVE DETAIL IS INTENDED TO PROVIDE A TYPICAL ACCESSIBLE PARKING LAYOUT. REFER TO PLAN FOR SPECIFIC LAYOUT OF ACCESSIBLE PARKING, ACCESS AISLE, CURB RAMP TYPES AND LOCATIONS, AND ACCESSIBLE ROUTE.
 2. ALL PAVEMENT MARKINGS SHALL RECEIVE TWO COATS OF AN APPROVED PAINT AND SHALL BE APPLIED TO A MINIMUM WET FILM THICKNESS OF 15 MILS.
 3. PAVEMENT MARKINGS SHALL BE PAINTED AS REQUIRED BY THE LOCAL CODE OR SPECIFIED BY THE OWNER.
 4. THE PAVEMENT MARKINGS SHALL BE MAINTAINED PERMANENTLY ON THE PAVEMENT SURFACE IN THE LAYOUT SHOWN ON THE APPROVED PLAN.
 5. THE WIDTH OF THE STALLS SHOWN SHALL BE MEASURED FROM THE CENTERLINE OF THE MARKINGS.
 6. INTERNATIONAL SYMBOL OF ACCESSIBILITY "RESERVED PARKING" SIGNAGE MAY BE PLACED 2 FOOT BEHIND THE FACE OF CURB IF THE REQUIRED CLEAR SPACE BEHIND THE SIGN IS PROVIDED FOR THE ACCESSIBLE ROUTE. (SEE ACCESSIBLE ROUTE NOTES).



ACCESSIBLE PARKING SPACE AND ACCESS AISLE SIGN WITH BOLLARD DETAIL

- SCALE: N.T.S.
- NOTE:** SIGNS LOCATED WHERE THEY MAY BE HIT BY VEHICLES BEING PARKED SHALL BE INSTALLED WITH BOLLARD PROTECTION.



NO.	DATE	REVISION	INT.



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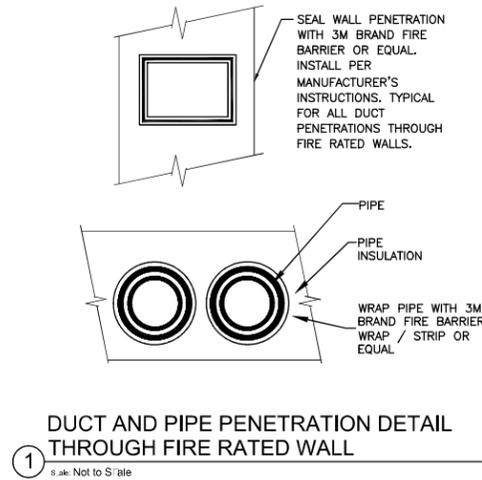
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DESIGNED BY: AC/DS
DRAWN BY: DS
CHECKED BY: STM



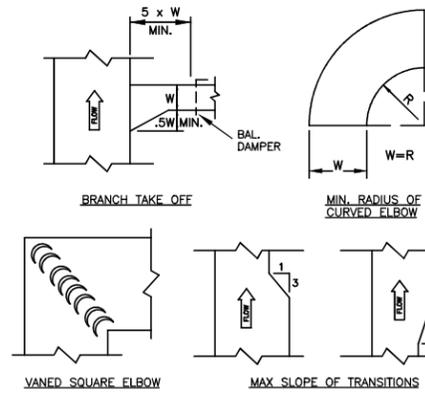
NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET HOMES

ACCESSIBILITY DETAILS II

PROJECT NO. 5081
DATE: FEBRUARY 2018
SCALE: AS NOTED
DRAWING NO. **C15**

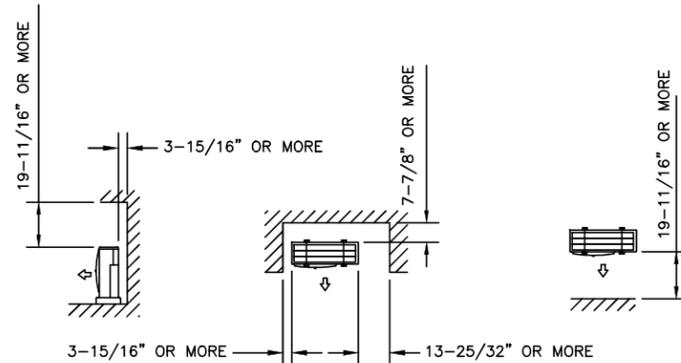


1. DUCT AND PIPE PENETRATION DETAIL THROUGH FIRE RATED WALL
Scale: Not to Scale

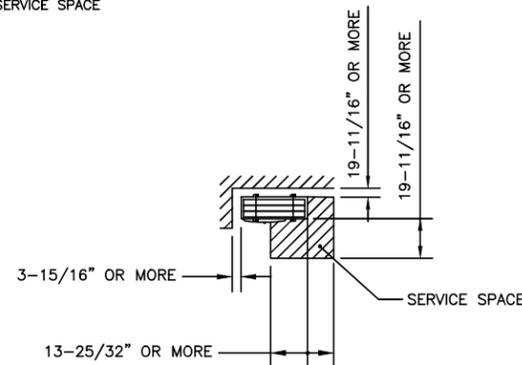


2. DUCT CONSTRUCTION DETAILS
Scale: Not to Scale

1. FREE SPACE



2. SERVICE SPACE

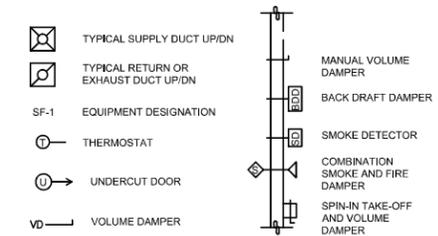


3. CONDENSER UNIT CLEARANCES
Scale: Not to Scale

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AUTHORITIES HAVING JURISDICTION AIR HANDLER UNIT
APPROX	APPROXIMATE
BLDG	BUILDING
CLG	CEILING
CONST	CONSTRUCTION
CO2	CARBON DIOXIDE
CU	CONDENSING UNIT
DEG	DEGREES
DTL	DETAIL
DN	DOWN
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EXT	EXTERIOR
F&I	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
HR	HEATING, VENTILATION, AIR CONDITIONING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
I.D.	INSIDE DIMENSION
LL	LANDLORD
LV	LOW VOLTAGE
MAX	MAXIMUM
MECH	MECHANICAL
MC	MECHANICAL CONTRACTOR
MFP	MECHANICAL, ELECTRICAL AND PLUMBING MANUFACTURER
MFG	MANUFACTURER
MIN	MINIMUM
NTS	NOT TO SCALE
O.D.	OUTSIDE DIMENSION
OSA	OUTSIDE AIR
PM	PROJECT MANAGER
REF	REFERENCE
REQ(D)	REQUIRED
REV	REVISION
RG	RETURN GRILLE
RT	ROOFTOP
SHT	SHEET
SPECS	SPECIFICATION(S)
SF	SQUARE FEET
SST	STAINLESS STEEL
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER

MECHANICAL SYMBOL LEGEND



DUCTWORK AND ACCESSORIES

SHEETMETAL DUCTWORK
 ALL DUCTWORK TO BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTBOARD IS NOT ALLOWED. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS.

FURNISH AND INSTALL ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR COMPLETE OPERATING SYSTEM.

NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER.

DUCT SEALANT
 SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, WITH VOC CONTENT NO GREATER THAN 250G/L AND OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS, AND FASTENING SCREWS WITH MASTIC.

SUPPORTS
 PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK WHERE REQUIRED.

GRILLES, REGISTERS, AND DIFFUSERS
 GRILLES, REGISTERS, AND DIFFUSERS SHALL BE AS SPECIFIED AND SHALL BE MECHANICAL CONTRACTOR SUPPLIED, UNLESS OTHERWISE NOTED. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED IN THIS PROJECT.

DAMPER AIR LEAKAGE
 MOTORIZED AND NON-MOTORIZED DAMPERS USED FOR OUTSIDE AIR INTAKES, EXHAUST & RETURN OUTLETS (INCLUDING THOSE WITHIN HVAC EQUIPMENT) SHALL HAVE A MAXIMUM AIR LEAKAGE VALUE PER THE ENERGY CODE OR ASHRAE 90.1 WHEN TESTED PER AMCA STD 500.

GENERAL MECHANICAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL INTENT OR ARRANGEMENT OF SYSTEMS. FURNISH & INSTALL ALL COMPONENTS NEEDED WHETHER INDICATED OR NOT TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
- CONTRACTOR TO VERIFY ALL DIMENSIONS, AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE TAKEN FROM ACTUAL BUILDING DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE HVAC WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS.

GENERAL SPECIFICATION NOTES

SCOPE
 THE INTENT OF THE SPECIFICATIONS AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK.

SITE EXAMINATION
 THE MECHANICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK.

STANDARDS
 EQUIPMENT AND MATERIALS SHALL CONFORM WITH THE APPROPRIATE PROVISIONS OF CSA, UL, ARI, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES
 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO STARBUCKS.

PERMITS AND FEES
 THE MECHANICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL WORK.

WARRANTY
 THE MECHANICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY STARBUCKS AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

LEED
 ALL WORK, MATERIALS AND EQUIPMENT SHALL MEET LEED REQUIREMENTS & CODE. IN CASE OF CONFLICT, THE HIGHER STANDARD SHALL APPLY.

COORDINATION
 ALL WORK SHALL BE COORDINATED WITH THE PROPERTY MANAGER.

ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE RULES, CODES, AND ORDINANCES OF ALL MUNICIPAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE TERMS OF LEASE.

PLANS MUST BE FILED WITH NEW YORK CITY DEPARTMENT OF BUILDINGS AND THE APPROPRIATE PERMITS OBTAINED PRIOR TO THE COMMENCEMENT OF ANY WORK. A COPY OF CONSTRUCTION PERMIT MUST BE PROVIDED TO LANDLORD.

COPIES OF ALL REQUIRE BUILDING DEPARTMENT FINAL SIGN-OFFS MUST BE SUBMITTED FOR RECORDS UPON COMPLETION OF THE PROJECT.

HVAC EQUIPMENT AND MATERIALS

AIR HANDLING UNITS
 AIR HANDLING UNITS SHALL BE AS SPECIFIED IN THE MECHANICAL SCHEDULE AND SHALL BE FURNISHED AND INSTALLED PER THE CONTRACT DOCUMENTS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY COMPONENTS AND ACCESSORIES.

EXHAUST FANS
 EXHAUST FANS SHALL BE AS SPECIFIED AND PROVIDED PER THE CONTRACT DOCUMENTS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING DISCHARGE LOCATION WITH NEARBY AIR VENTS AND INTAKES, PROVIDING COMPLETE INSTALLATION INCLUDING FLASHING, BACKDRAFT DAMPER, AND NECESSARY ACCESSORIES.

AIR HANDLER UNIT SCHEDULE - BASED ON MITSUBISHI M-SERIES

MARK	MODEL	AIRFLOW (L/M/H)	E.S.P.	COOLING CAPACITY	HEATING CAPACITY	LIQUID	SUCTION	DRAIN	ELECTRIC	DEPTH	WIDTH	HEIGHT	WEIGHT	REMARKS
AHU-1	MSZ-GL09NA	145-406 CFM	N/A	9,000 BTU/HR	10,900 BTU/HR	1/4"	3/8"	5/8"	208v 1ø/60/1.0A VIA COND.	9-1/8"	31-7/16"	11-5/8"	29 LBS	INSULATED CONDENSATE DRAIN
AHU-2	MSZ-GL12NA	145-406 CFM	N/A	12,000 BTU/HR	14,400 BTU/HR	1/4"	3/8"	5/8"	208v 1ø/60/1.0A VIA COND.	9-1/8"	31-7/16"	11-5/8"	22 LBS	INSULATED CONDENSATE DRAIN
AHU-3	MSZ-GL24NA	347-738 CFM	N/A	22,400 BTU/HR	27,600 BTU/HR	3/8"	5/8"	5/8"	208v 1ø/60/1.0A VIA COND.	9-3/8"	43-5/16"	12-13/16"	37 LBS	INSULATED CONDENSATE DRAIN
AHU-4	PKFY-P08NHMU	320-413 CFM	N/A	8,000 BTU/HR	9,000 BTU/HR	1/4"	1/2"	5/8"	208v 1ø/60/1.0A	11-5/8"	35-3/8"	9-13/16"	29 LBS	INSULATED CONDENSATE DRAIN
AHU-5	PKFY-P18NHMU	320-425 CFM	N/A	18,000 BTU/HR	20,000 BTU/HR	1/4"	1/2"	5/8"	208v 1ø/60/1.0A	11-5/8"	35-3/8"	9-13/16"	29 LBS	INSULATED CONDENSATE DRAIN

CONDENSING UNIT SCHEDULE - BASED ON MITSUBISHI M-SERIES

MARK	MODEL	COOLING CAPACITY	HEATING CAPACITY	EER	SEER	COP @17°F	SOUND PRESSURE	COMPRESSOR TYPE / QTY	LIQUID	SUCTION	ELECTRIC		LENGTH	WIDTH	HEIGHT	WEIGHT	REMARKS		
											POWER	MCA							
CU-1	MXZ-2C20NAHZ2	18,000 BTH/HR	22,000 BTH/HR	13.5	17.0	2.77	58 dB(A)	(1) ROTARY INVERTER DRIVEN	R410A	1/4"	3/8"	208V 1ø 60HZ	29.5 AMP	40 AMP BREAKER	37.41"	13.00"	41.27"	187 LBS	ON EXTERIOR CONCRETE PAD.
CU-2	MXZ-3C30NAHZ2	28,400 BTH/HR	28,600 BTH/HR	12.5	18.0	2.65	58 dB(A)	(1) ROTARY INVERTER DRIVEN	R410A	1/4"	1/2"	208V 1ø 60HZ	30.5 AMP	40 AMP BREAKER	37.41"	13.00"	41.27"	189 LBS	ON EXTERIOR CONCRETE PAD.
CU-3	PUMY-P36NKMU1	36,000 BTH/HR	42,000 BTH/HR	14.20	21.0	3.9	53 dB(A)	(1) ROTARY INVERTER DRIVEN	R410A	3/8"	5/8"	208V 1ø 60HZ	31.0 AMP	40 AMP BREAKER	41.69"	13.00"	52.69"	269 LBS	ON EXTERIOR CONCRETE PAD.

EXHAUST FAN SCHEDULE:

MARK	MFG.	MODEL #	RPM	CFM	S.P.	AMPS	VOLTS	WEIGHT	REMARKS
EF-1	BROAN	XB110H1	-	110	0.1"	0.3	120	12.3	WITH HUMIDITY CONTROL PROVIDE GFCI PROTECTED CIRCUIT.

HEAT RECOVERY VENTILATOR SCHEDULE - BASED ON RENOVARE

MARK	MODEL	CFM	ESP	UNIT WGT	UNIT DIMS.	ELECTRICAL	MOTORS	NOTES:
ERV-1	EV450IN	500	0.4" W.C.	141 LBS	36.38" W 54.50" L 16.38" H	240V 1PH 60HZ 7.7 MCA 15A MOCBP	(1) 0.6HP	WITH FACTORY MOUNTED MOTORIZED DAMPER OPTION.

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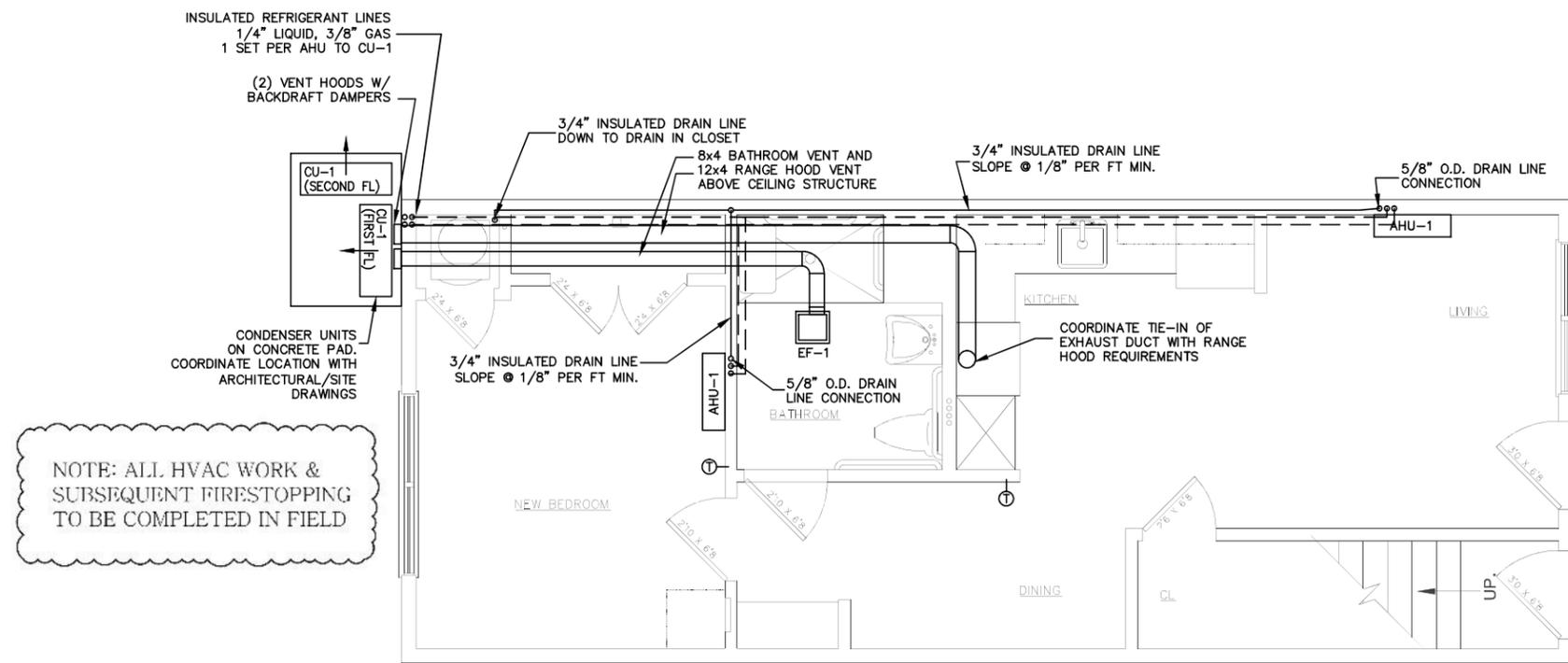
PROJECT ENGINEER: SM
 DRAWN BY: DS
 DESIGNED BY: SM
 CHECKED BY: SM



NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

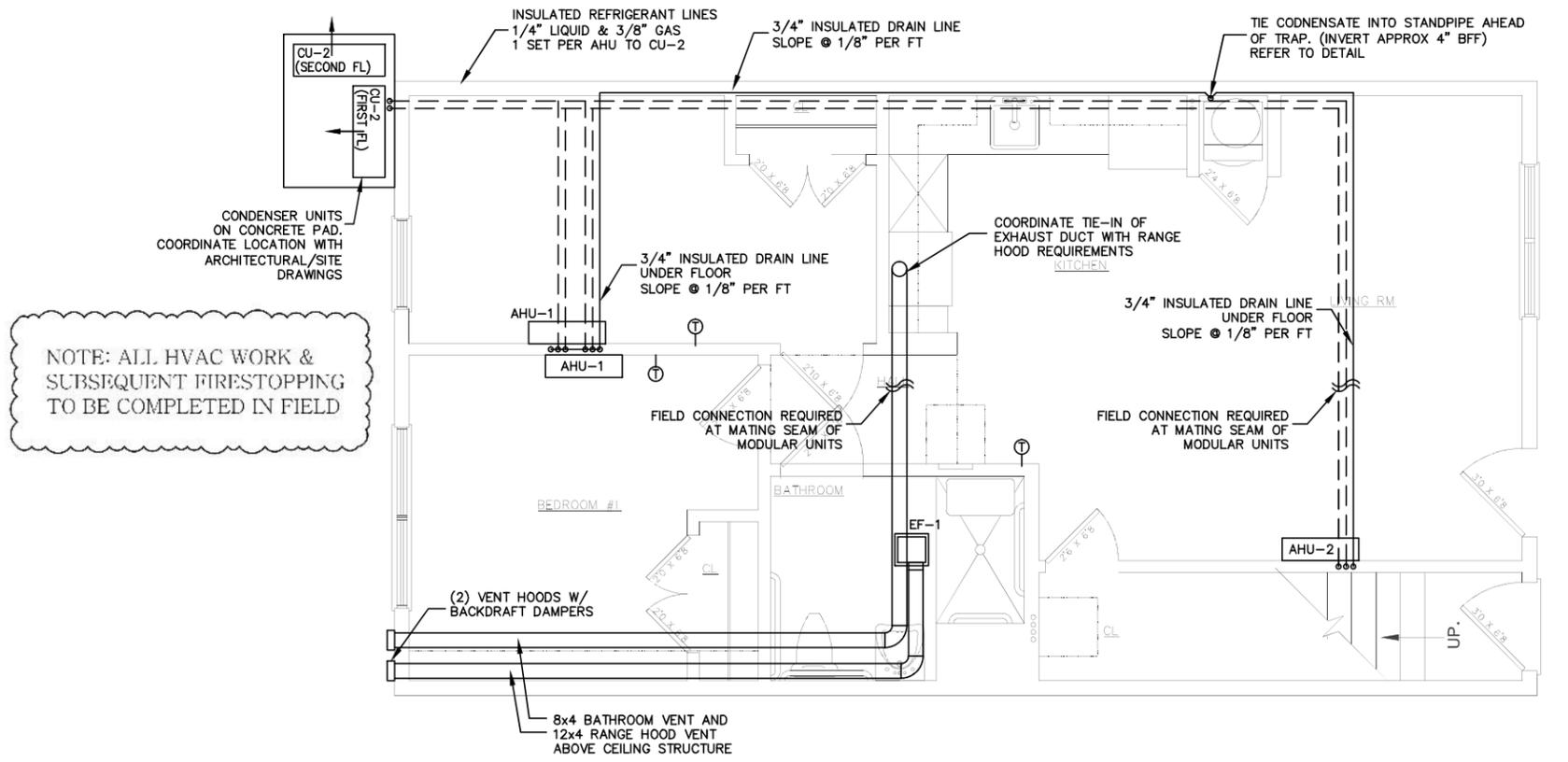
CONTRACT NO.
HVAC NOTES AND LEGENDS

PROJECT NO. 5081
 DATE: 26 FEB 2018
 SCALE: NTS
H01



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

1 TYPICAL 1-BEDROOM TYPE "A" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

2 TYPICAL 2-BEDROOM TYPE "A" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"

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PROJECT ENGINEER: SM
DESIGNED BY: SM

DRAWN BY: DS
CHECKED BY: SM



NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK

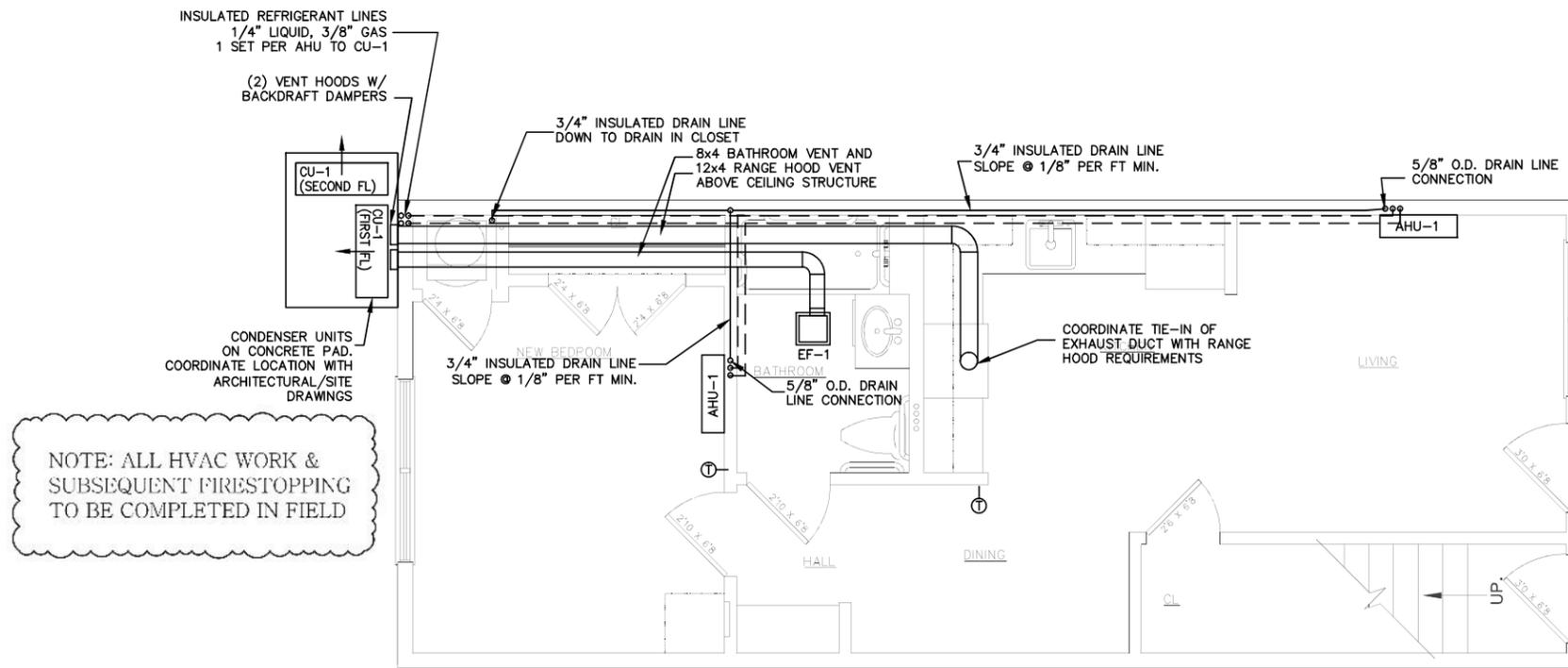
GRAND STREET APARTMENTS

CONTRACT NO. 5081

**HVAC PLAN OF 1 AND 2 BEDROOM UNITS
TYPE "A" FIRST FLOOR**

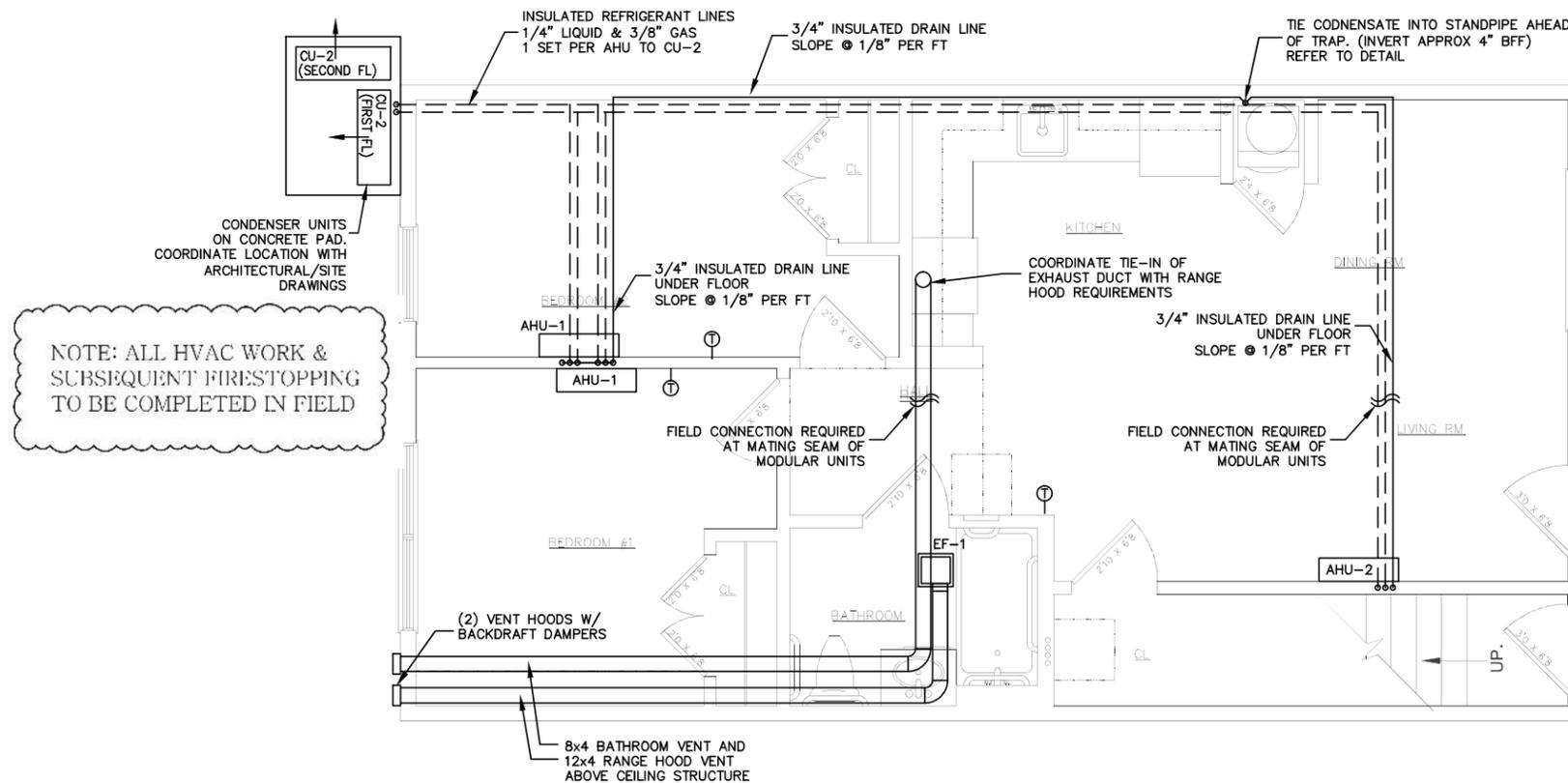
DRAWING NO. **H02**

DATE: 26 FEB 2018
SCALE: AS NOTED



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

1 TYPICAL 1-BEDROOM TYPE "B" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

2 TYPICAL 2-BEDROOM TYPE "B" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"

OFFICIAL USE ONLY

NO.	DATE	REVISION	INT.



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PROJECT ENGINEER: SM
DESIGNED BY: SM

DRAWN BY: DS
CHECKED BY: SM



NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK

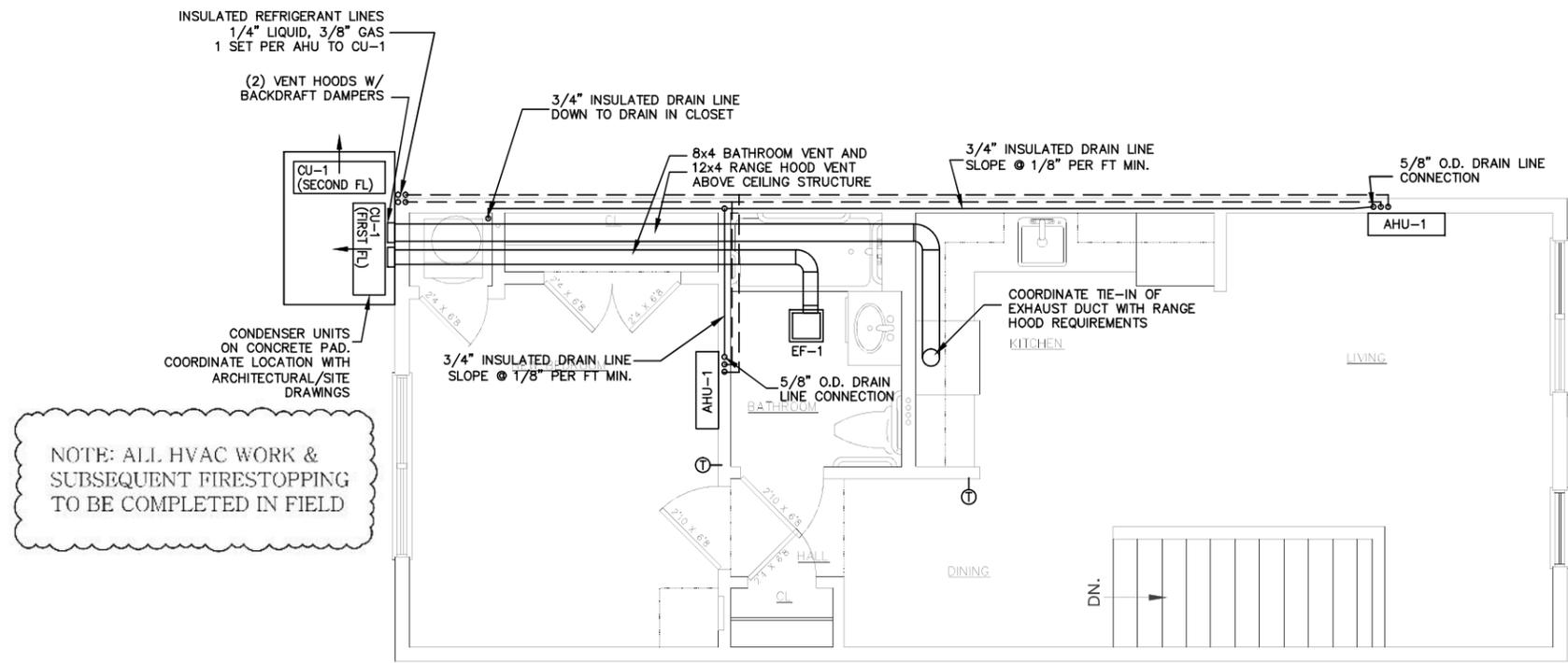
GRAND STREET APARTMENTS

CONTRACT NO. 5081

HVAC PLAN OF 1 AND 2 BEDROOM UNITS TYPE "B" FIRST FLOOR

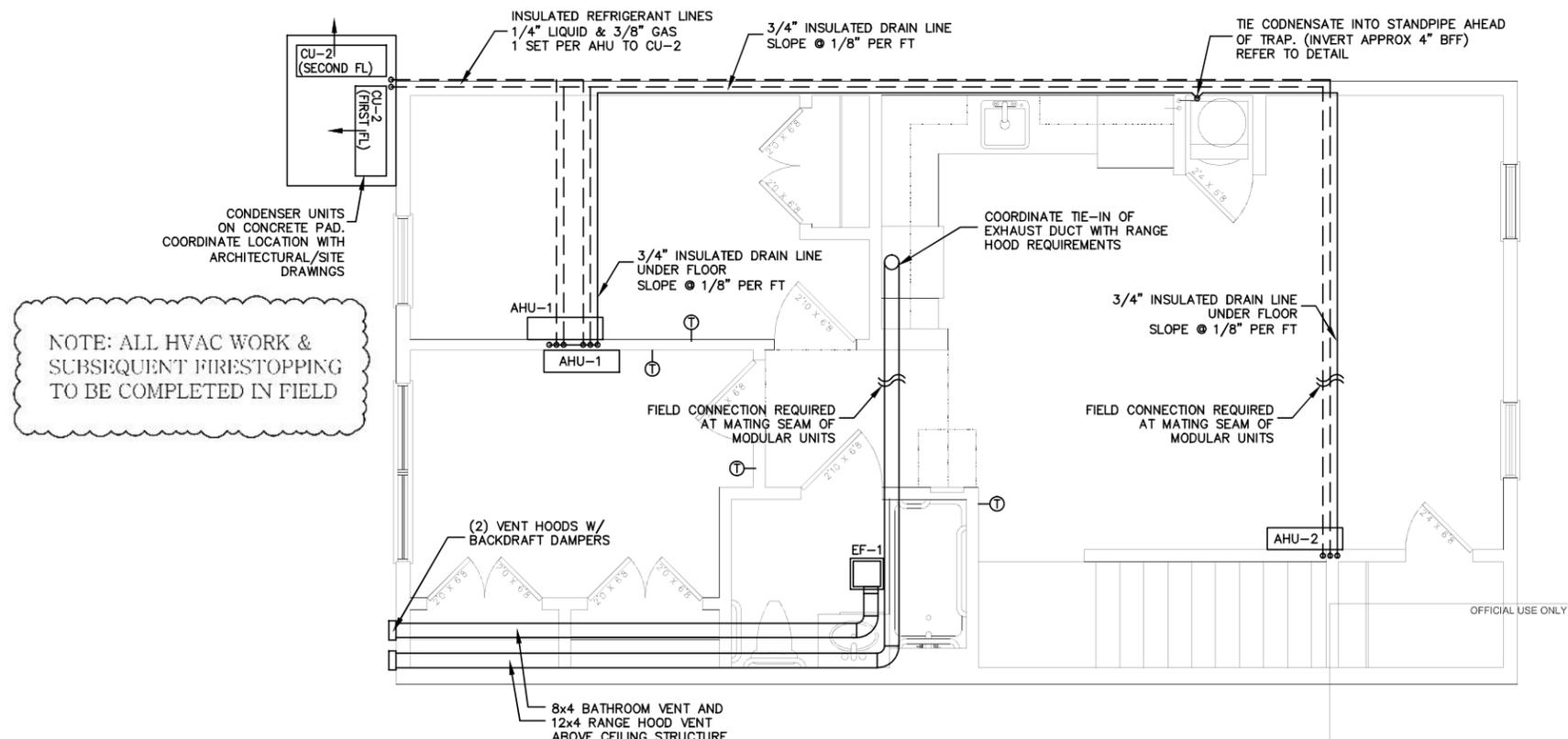
PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED

H03



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

1 TYPICAL 1-BEDROOM TYPE "B" UNIT - SECOND FLOOR
Scale: 3/8" = 1'-0"



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

2 TYPICAL 2-BEDROOM TYPE "B" UNIT - SECOND FLOOR
Scale: 3/8" = 1'-0"

NO.	DATE	REVISION	INT.



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PROJECT ENGINEER: SM
 DRAWN BY: DS
 DESIGNED BY: SM
 CHECKED BY: SM



NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
 GRAND STREET APARTMENTS

CONTRACT NO.
 HVAC PLAN OF 1 AND 2 BEDROOM UNITS
 TYPE "B" SECOND FLOOR

PROJECT NO. 5081
 DATE: 26 FEB 2018
 SCALE: AS NOTED

DRAWING NO. H04

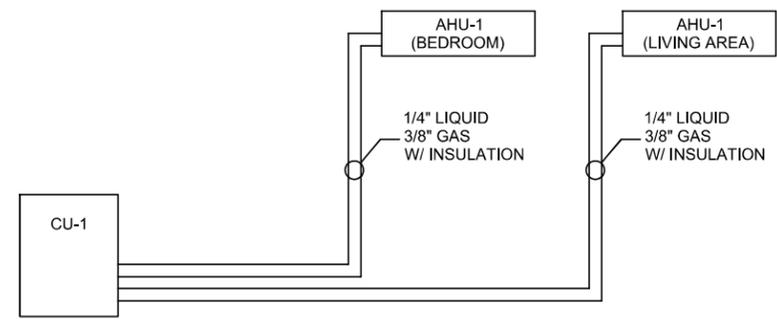
Air System Design Load Summary for AHU-01 - 1 BDR
 Project Name: 2017-5081 - Grand Street Apartments
 Prepared by: D&B
 12/06/2017
 11:24AM

ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	59 ft ²	2455	-	59 ft ²	-	-
Wall Transmission	596 ft ²	1747	-	596 ft ²	4387	-
Roof Transmission	540 ft ²	774	-	540 ft ²	1118	-
Window Transmission	59 ft ²	708	-	59 ft ²	2160	-
Skylight Transmission	0 ft ²	0	-	0 ft ²	0	-
Door Loads	23 ft ²	289	-	23 ft ²	463	-
Floor Transmission	185 ft ²	0	-	185 ft ²	0	-
Partitions	0 ft ²	0	-	0 ft ²	0	-
Ceiling	0 ft ²	0	-	0 ft ²	0	-
Overhead Lighting	940 W	1642	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	3	645	555	0	0	0
Infiltration	-	438	387	-	1294	0
Miscellaneous	-	1950	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads		10558	922		9329	0
Zone Conditioning		-10558	922		-9329	0
Plenum Wall Load	0%	0	0	0	0	0
Plenum Roof Load	0%	0	0	0	0	0
Plenum Lighting Load	0%	0	0	0	0	0
Return Fan Load	533 CFM	0	-	47 CFM	0	-
Ventilation Load	43 CFM	978	876	4 CFM	116	0
Supply Fan Load	533 CFM	0	-	47 CFM	0	-
Space Fan Coil Fans	0	0	0	0	0	0
Duct Heat Gain / Loss	0%	0	0	0%	0	0
>> Total System Loads		11513	1792		817	0
Central Cooling Coil		-11513	1792		0	0
Return Coil		0	0		817	0
>> Total Conditioning		-11513	1792		817	0

Key: Positive values are c/g loads
 Negative values are h/g loads

Zone Design Load Summary for AHU-01 - 1 BDR
 Project Name: 2017-5081 - Grand Street Apartments
 Prepared by: D&B
 12/06/2017
 11:24AM

Zone 1	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	59 ft ²	2455	-	59 ft ²	-	-
Wall Transmission	596 ft ²	1747	-	596 ft ²	4387	-
Roof Transmission	540 ft ²	774	-	540 ft ²	1118	-
Window Transmission	59 ft ²	708	-	59 ft ²	2160	-
Skylight Transmission	0 ft ²	0	-	0 ft ²	0	-
Door Loads	23 ft ²	289	-	23 ft ²	463	-
Floor Transmission	185 ft ²	0	-	185 ft ²	0	-
Partitions	0 ft ²	0	-	0 ft ²	0	-
Ceiling	0 ft ²	0	-	0 ft ²	0	-
Overhead Lighting	940 W	1642	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	3	645	555	0	0	0
Infiltration	-	438	387	-	1294	0
Miscellaneous	-	1950	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads		10558	922		9329	0



1 TYPICAL 1-BEDROOM UNIT REFRIGERANT RISER DIAGRAM
 Scale: NO SCALE

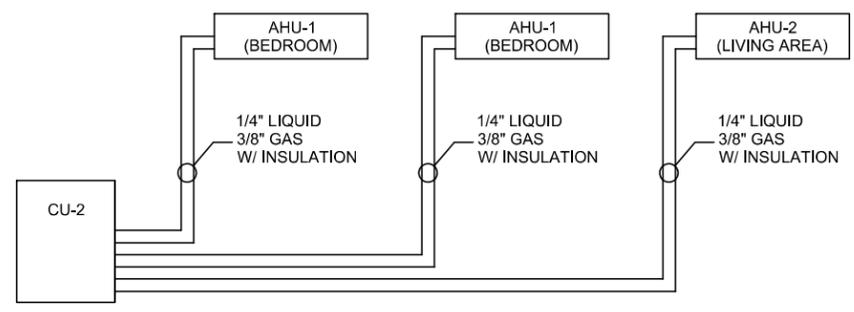
Air System Design Load Summary for AHU-02 - 2 BDR
 Project Name: 2017-5081 - Grand Street Apartments
 Prepared by: D&B
 12/06/2017
 11:24AM

ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	90 ft ²	3549	-	90 ft ²	-	-
Wall Transmission	619 ft ²	1747	-	619 ft ²	4387	-
Roof Transmission	619 ft ²	534	-	619 ft ²	1271	-
Window Transmission	80 ft ²	1079	-	80 ft ²	3261	-
Skylight Transmission	0 ft ²	0	-	0 ft ²	0	-
Door Loads	23 ft ²	287	-	23 ft ²	463	-
Floor Transmission	270 ft ²	0	-	270 ft ²	0	-
Partitions	0 ft ²	0	-	0 ft ²	0	-
Ceiling	0 ft ²	0	-	0 ft ²	0	-
Overhead Lighting	740 W	2525	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	4	800	740	0	0	0
Infiltration	-	533	521	-	1795	0
Miscellaneous	-	3109	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads		15227	1261		11465	0
Zone Conditioning		-15227	1261		-11465	0
Plenum Wall Load	0%	0	0	0	0	0
Plenum Roof Load	0%	0	0	0	0	0
Plenum Lighting Load	0%	0	0	0	0	0
Return Fan Load	746 CFM	0	-	64 CFM	0	-
Ventilation Load	58 CFM	1357	1166	5 CFM	162	0
Supply Fan Load	746 CFM	0	-	64 CFM	0	-
Space Fan Coil Fans	0	0	0	0	0	0
Duct Heat Gain / Loss	0%	0	0	0%	0	0
>> Total System Loads		16144	2440		986	0
Central Cooling Coil		-16144	2440		0	0
Return Coil		0	0		986	0
>> Total Conditioning		-16144	2440		986	0

Key: Positive values are c/g loads
 Negative values are h/g loads

Zone Design Load Summary for AHU-02 - 2 BDR
 Project Name: 2017-5081 - Grand Street Apartments
 Prepared by: D&B
 12/06/2017
 11:24AM

Zone 1	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	90 ft ²	3549	-	90 ft ²	-	-
Wall Transmission	619 ft ²	1747	-	619 ft ²	4387	-
Roof Transmission	619 ft ²	534	-	619 ft ²	1271	-
Window Transmission	80 ft ²	1079	-	80 ft ²	3261	-
Skylight Transmission	0 ft ²	0	-	0 ft ²	0	-
Door Loads	23 ft ²	287	-	23 ft ²	463	-
Floor Transmission	270 ft ²	0	-	270 ft ²	0	-
Partitions	0 ft ²	0	-	0 ft ²	0	-
Ceiling	0 ft ²	0	-	0 ft ²	0	-
Overhead Lighting	740 W	2525	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	4	800	740	0	0	0
Infiltration	-	533	521	-	1795	0
Miscellaneous	-	3109	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads		15227	1261		11465	0



2 TYPICAL 2-BEDROOM UNIT REFRIGERANT RISER DIAGRAM
 Scale: NO SCALE

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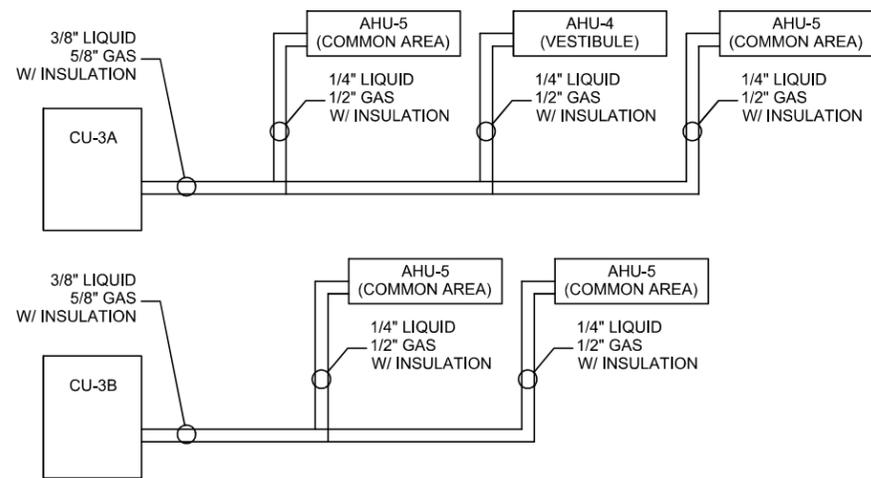
LOAD CALCULATION SUMMARY - 1ST FLOOR

ZONE LOADS	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	175 Bt	7743	-	175 Bt	-	-
Wall Transmission	929 Bt	2332	-	929 Bt	2332	-
Roof Transmission	165 Bt	236	-	165 Bt	341	-
Window Transmission	175 Bt	2085	-	175 Bt	630	-
Skylight Transmission	0 Bt	0	-	0 Bt	0	-
Door Loads	96 Bt	583	-	96 Bt	1799	-
Floor Transmission	225 Bt	0	-	225 Bt	0	-
Partitions	0 Bt	0	-	0 Bt	0	-
Ceiling	0 Bt	0	-	0 Bt	0	-
Overhead Lighting	1000 W	3412	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	81	2229	16200	0	0	0
Infiltration	-	1826	1023	-	801*	0
Miscellaneous	-	3500	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	42867	17223	-	28726	0
Zone Conditioning	-	42190	17223	-	6989	0
Plenum Wall Loss	0%	0	0	0	0	0
Plenum Roof Loss	0%	0	0	0	0	0
Plenum Light Loss	0%	0	0	0	0	0
Return Fan Load	2154 CFM	0	-	465 CFM	0	-
Ventilation Load	434 CFM	9712	5203	82 CFM	2989	0
Supply Fan Load	2154 CFM	0	-	465 CFM	0	-
Grass Fan Coil Fan	-	0	-	-	0	-
Direct Heat Gain / Loss	0%	0	0%	0	0	0
>> Total System Loads	-	61892	23006	-	8988	0
Cooling Capacity	-	61892	23007	-	8988	0
Heating Capacity	-	0	0	-	8988	0
>> Total Conditioning	-	51892	23007	-	8988	0

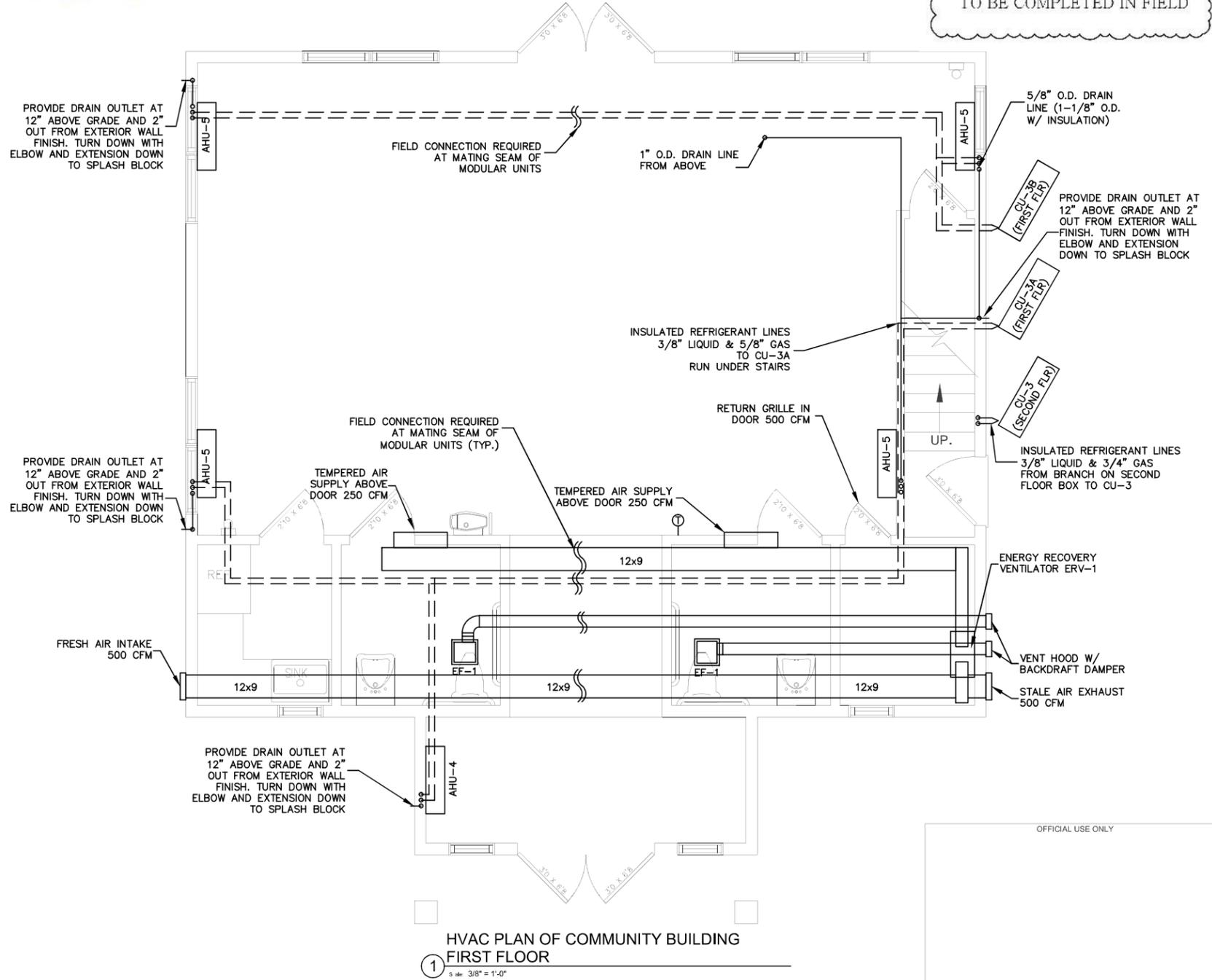
Key: Positive values are cgl loads
Negative values are hfg loads

Zone 1	DESIGN COOLING			DESIGN HEATING		
	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	175 Bt	7803	-	175 Bt	-	-
Wall Transmission	929 Bt	3307	-	929 Bt	2263	-
Roof Transmission	165 Bt	242	-	165 Bt	341	-
Window Transmission	175 Bt	2029	-	175 Bt	3380	-
Skylight Transmission	0 Bt	0	-	0 Bt	0	-
Door Loads	96 Bt	663	-	96 Bt	1786	-
Floor Transmission	225 Bt	0	-	225 Bt	0	-
Partitions	0 Bt	0	-	0 Bt	0	-
Ceiling	0 Bt	0	-	0 Bt	0	-
Overhead Lighting	1000 W	3412	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	0 W	0	-	0	0	-
People	81	2429	16200	0	0	0
Infiltration	-	1743	1622	-	507	0
Miscellaneous	-	3903	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	42941	17222	-	23726	0

NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD



2 REFRIGERANT RISER DIAGRAM - COMMUNITY BUILDING FIRST FLOOR
Scale: NO SCALE



1 HVAC PLAN OF COMMUNITY BUILDING FIRST FLOOR
Scale: 3/8" = 1'-0"

NO.	DATE	REVISION	INT.



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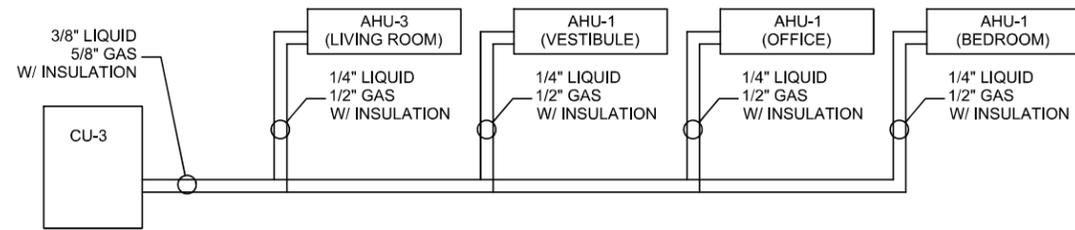
PROJECT ENGINEER: SM
DRAWN BY: DS
DESIGNED BY: SM
CHECKED BY: SM



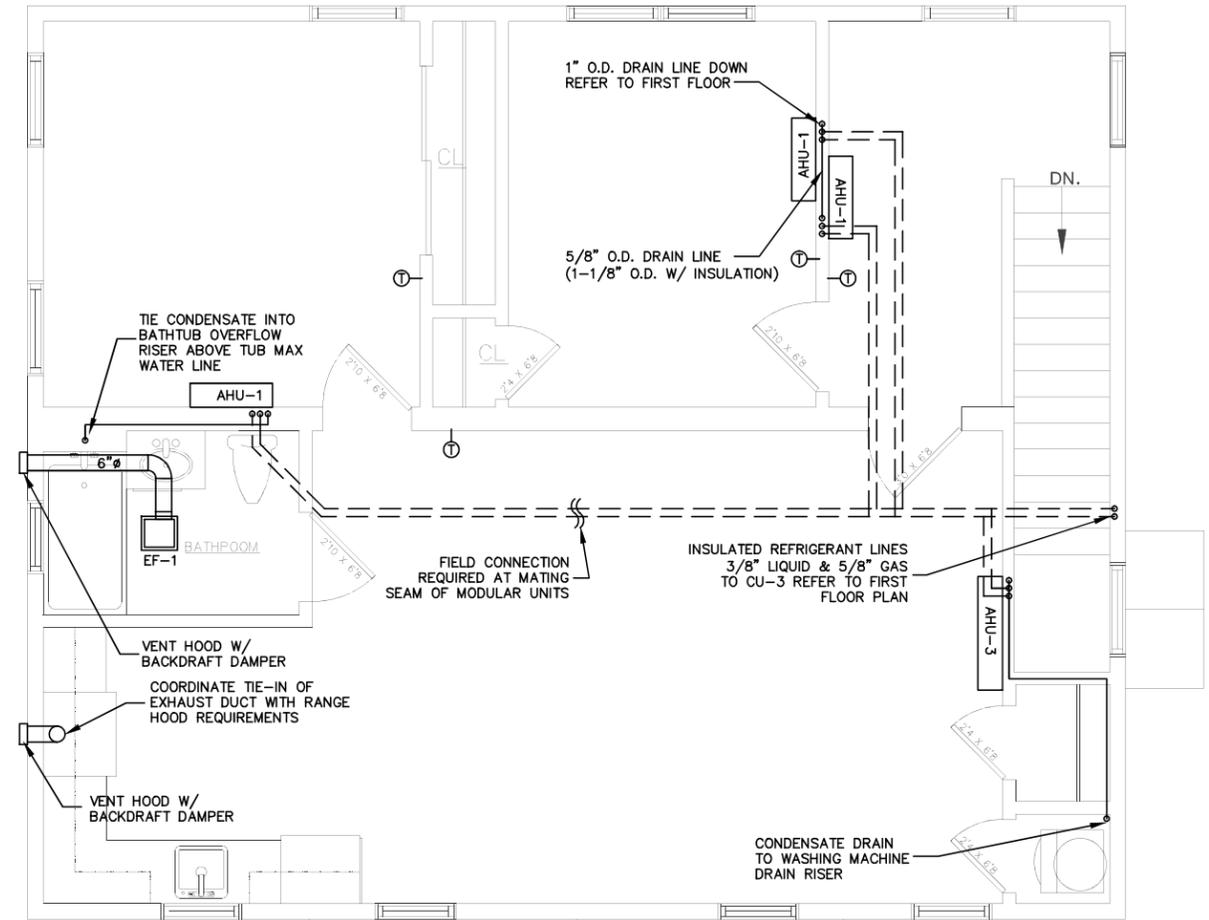
NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
FIRST FLOOR HVAC PLAN OF COMMUNITY BUILDING

PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
DRAWING NO. H06



1 REFRIGERANT RISER DIAGRAM - COMMUNITY BUILDING SECOND FLOOR
Scale: NO SCALE



NOTE: ALL HVAC WORK & SUBSEQUENT FIRESTOPPING TO BE COMPLETED IN FIELD

2 HVAC PLAN OF COMMUNITY BUILDING SECOND FLOOR
Scale: 3/8" = 1'-0"

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PROJECT ENGINEER:	DRAWN BY:
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DESIGNED BY:	CHECKED BY:
SM	SM



NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
SECOND FLOOR HVAC PLAN OF COMMUNITY BUILDING

PROJECT NO. 5081	H07
DATE: 26 FEB 2018	
SCALE: AS NOTED	

ABBREVIATIONS

AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
APPROX	APPROXIMATE
BLDG	BUILDING
CLG	CEILING
CKT	CIRCUIT
CONST	CONSTRUCTION
CO2	CARBON DIOXIDE
DB	DOORBELL
DN	DOWN
DS	DISCONNECT SWITCH
DWG(S)	DRAWING(S)
EA	EACH
ECC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
(E) OR (EX)	EXISTING
EXT	EXTERIOR
FLR	FLOOR
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GND	GROUND
HR	HOUR
HVAC	HEATING, VENTILATION, AIR CONDITIONING
LD	INSIDE DIMENSION
MAX	MAXIMUM
MECH	MECHANICAL
MC	MECHANICAL CONTRACTOR
MEP	MECHANICAL ELECTRICAL AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
NTS	NOT TO SCALE
O.D.	OUTSIDE DIMENSION
REF	REFERENCE
REQ(D)	REQUIRE(D)
REV	REVISION
SHT	SHEET
SPECS	SPECIFICATION(S)
SF	SQUARE FEET
SST	STAINLESS STEEL
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WH	WATER HEATER

ELECTRICAL SYMBOLS LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NEW DUPLEX RECEPTACLE		NEW JUNCTION BOX
	NEW QUAD RECEPTACLE		NEW CABLE TELEVISION OUTLET
	NEW 240V RECEPTACLE		NEW DATA/PHONE OUTLET
	NEW ELECTRICAL PANEL		HALF ARROW HEAD INDICATES ONE CIRCUIT
	NEW DISCONNECT SWITCH	AFF	ABOVE FINISH FLOOR

BRANCH CIRCUIT & HOME RUN WIRE SIZES

LENGTH	120V	208V	277V
50' OR LESS	12 AWG	12 AWG	12 AWG
51' TO 100'	10 AWG	10 AWG	10 AWG
101' TO 150'	8 AWG	8 AWG	
151' TO 200'	8 AWG		
201' TO 350'	6 AWG		

BRANCH CIRCUIT WIRING SCHEDULE

OCBP RATING	PHASE/NEUTRAL CONDUCTOR	EQ. GND. CONDUCTOR	CONDUIT SIZE	REMARKS
15A	#12	#12	3/4"	u.o.n
20A	#12	#12	3/4"	u.o.n
30A	#10	#10	3/4"	u.o.n
40A	#8	#10	1"	u.o.n
50A	#6	#10	1"	u.o.n
60A	#4	#8	1 1/4"	u.o.n
70A	#4	#8	1 1/4"	u.o.n
100A	#1	#8	1 1/2"	u.o.n
125A	#1/0	#6	2"	u.o.n
150A	#1/0	#6	2"	u.o.n
175A	#2/0	#6	2"	u.o.n
200A	#4/0	#4	2 1/2"	u.o.n
225A	#4/0	#4	2 1/2"	u.o.n

ELECTRICAL WIRING NOTES:

- THIS WIRING SCHEDULE SHALL BE USED ONLY FOR NON-MOTOR LOAD BRANCH CIRCUITS, SHOWN AS HOME RUN SYMBOLS ON PLANS. REFER TO EQUIPMENT SCHEDULES FOR MOTOR BRANCH CIRCUITS. PROVIDE FEEDER CONDUCTORS AS INDICATED ON THE PLANS AND RISER DIAGRAMS.
- PROVIDE ONE CONDUCTOR PER PHASE, UNLESS OTHERWISE NOTED.
- PROVIDE A SEPARATE NEUTRAL WIRE OF THE SAME SIZE PHASE CONDUCTORS FOR ALL CIRCUITS REQUIRING A NEUTRAL UNLESS OTHERWISE NOTED.
- PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR WITH EACH CIRCUIT. EQUIPMENT BONDING AND GROUND SHALL BE IN ACCORDANCE WITH THE NEC.
- WHERE SIZE IS NOT INDICATED, WIRES AND CONDUIT PER NEC.
- FOR AN OCPD (OVER CURRENT PROTECTION DEVICE) OF INTERMEDIATE RATING OF THOSE LISTED, PROVIDE WIRING INDICATED FOR NEXT HIGHER RATED OCPD.
- ALL WIRING CONDUCTORS TO MEET THE LATEST NEC CODES.
- ALL CIRCUIT BREAKERS TO BE LISTED AND LABELED.

ELECTRICAL NOTES:

- OBTAIN AN ELECTRICAL APPROVAL CERTIFICATE FOR ALL ELECTRICAL WORK IN AND RELATED TO THE CONTRACT FROM A COMPANY LICENSED WITH THE STATE OF NEW YORK AND THE TOWN OF HEMPSTEAD, AND WHOSE INSPECTORS ARE CERTIFIED BY THE DEPARTMENT OF STATE, CODES DIVISION BEFORE FINAL PAYMENT IS ISSUED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AS REQUIRED BY OTHER TRADES.
- ELECTRICIAN TO PROVIDE ALL ELECTRICAL CONNECTIONS FOR ALL OTHER TRADES FOR EQUIPMENT ANCILLARY TO THE CONSTRUCTION ACTIVITIES.
- FOR EXACT LOCATION OF ALL MECHANICAL, PLUMBING, FIRE PROTECTION, AND OWNER FURNISHED EQUIPMENT, REFER TO DRAWINGS OF THOSE TRADES, AND COORDINATE ALL ELECTRICAL WORK WITH THOSE RESPECTIVE CONTRACTORS.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY NEW CIRCUIT BREAKERS IN THE PANEL BOARDS AS REQUIRED BY THESE DRAWINGS.
- FOR EXACT LOCATION OF LIGHTING FIXTURES AND ALL OTHER CEILING MOUNTED MATERIAL, REFER TO ELECTRICAL LIGHTING PLANS.
- ALL NEW RECEPTACLES LOCATED WITHIN 6'-0" OF ANY WATER SOURCE (SUCH AS SINKS, OR GRADE, ETC.) TO BE INSTALLED WITH NEW GFCI TYPE DUPLEX RECEPTACLE (WHETHER INDICATED OR NOT).
- ELECTRICAL EQUIPMENT SHALL BE INSTALLED & MEET THE NEC WORKING SPACE REQUIREMENTS.

ELECTRIC BASEBOARD SCHEDULE:

MARK	MFG.	MODEL #	DIMENSIONS	MOUNTING HEIGHT	WATTS	VOLTS	AMPS	WEIGHT	REMARKS
EH-1	QMARK	DBSL02	2 3/4"x6"x28"	10" TO TOP OF UNIT	375	120	3.1	8 LBS	WITH FACTORY 1-POLE THERMOSTAT AND DISCONNECT SWITCH
EH-2	QMARK	DBSL03	2 3/4"x6"x36"	10" TO TOP OF UNIT	750	120	6.2	10 LBS	WITH FACTORY 1-POLE THERMOSTAT AND DISCONNECT SWITCH
EH-3	QMARK	SED1012C	-	BOTTOM OF UNIT 18" ABOVE FLOOR	1000	120	8.3	12 LBS	WITH FACTORY 1-POLE THERMOSTAT AND SURFACE MOUNTING BOX

GENERAL ELECTRICAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.
- ALL ELECTRICAL SYSTEMS SHALL BE TESTED OR PROPER OPERATION. BALANCE ALL BRANCH CIRCUIT LOADS BETWEEN THE PHASES OF THE SYSTEM WITHIN 10% OF THE HIGHEST PHASE LOAD IN EACH PANEL BOARD.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT AND J-BOXES TO SUPPORT A COMPLETE ELECTRICAL SYSTEM. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. PROVIDE END-TO-END PULL STRINGS IN ALL CONDUITS, LABEL CONDUIT SYSTEM ("SECURITY") AND EACH END OF THE PULL STRING WITH DESTINATION ("BLDG 1 NE CORNER" ETC.) PROVIDE INSULATED BUSHINGS ON ALL STUBBED-UP AND EXPOSED CONDUIT ENDS.
- ALL WIRE TO BE COPPER. ALUMINUM WIRE NOT PERMITTED.

GENERAL SPECIFICATION NOTES

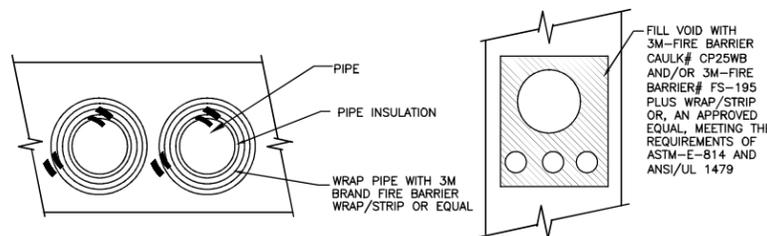
SCOPE
THE INTENT OF THE SPECIFICATIONS AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL INSTALLATION. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

STANDARDS
EQUIPMENT AND MATERIALS SHALL CONFORM WITH THE APPROPRIATE PROVISIONS OF CSA, UL, ARL, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES
ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COSTS.

PERMITS AND FEES
THE ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY TO COMPLETE THE MECHANICAL WORK.

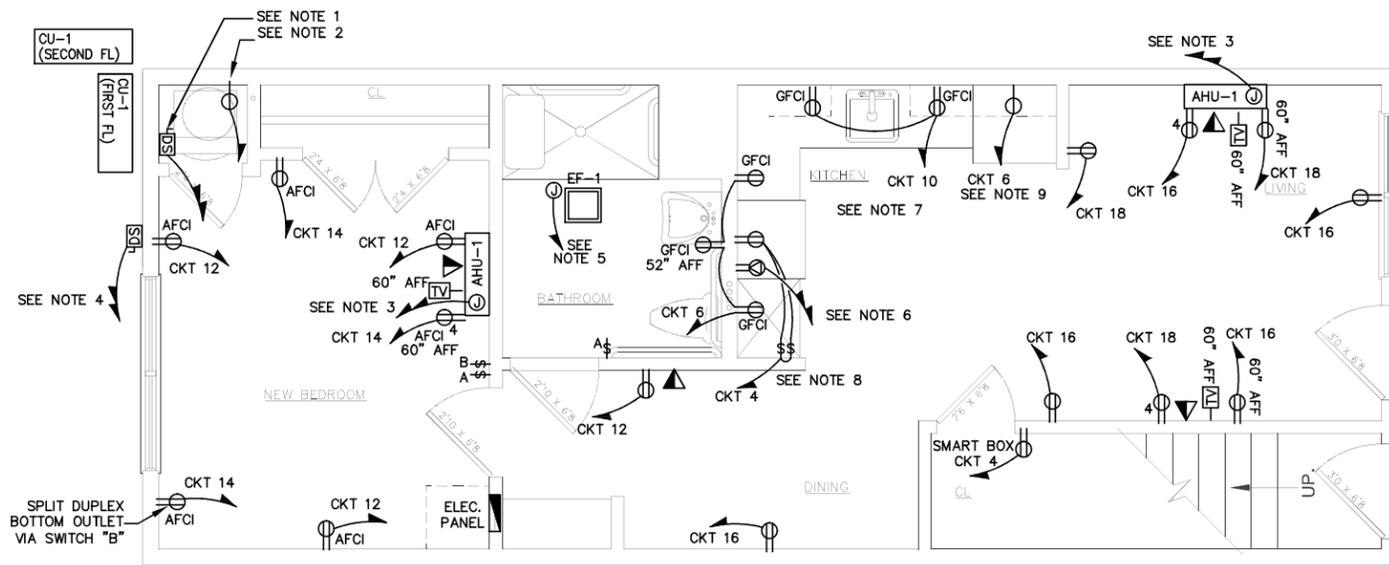
WARRANTY
THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.



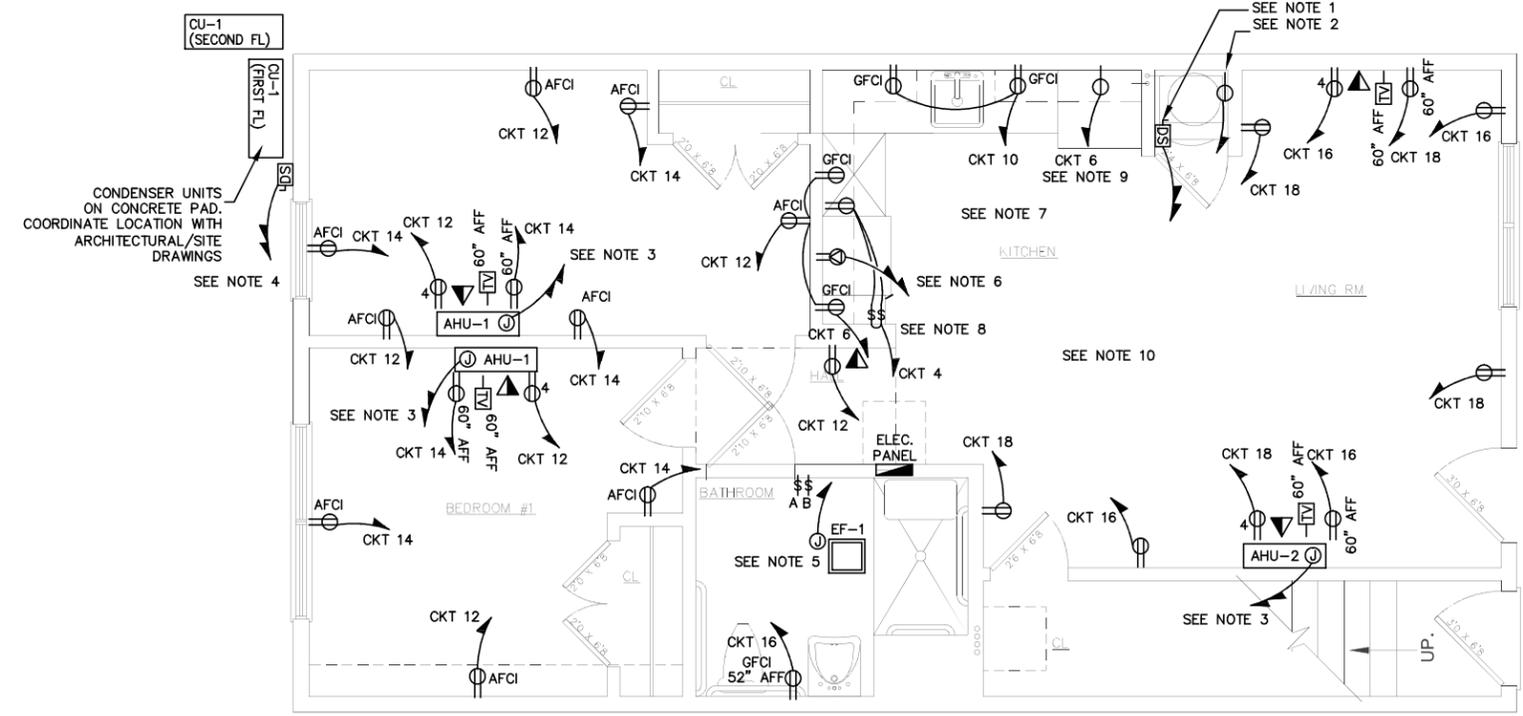
CONDUIT PENETRATION DETAIL THROUGH FIRE RATED CONSTRUCTION

1
S. SH. NO SCALE

NO.	DATE	REVISION	INT.		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.		NORTH HEMPSTEAD HOUSING AUTHORITY NASSAU COUNTY NEW YORK	CONTRACT NO. ELECTRICAL NOTES AND LEGENDS	PROJECT NO. 5081	DRAWING NO. E01
					PROJECT ENGINEER: SM DRAWN BY: DS DESIGNED BY: SM CHECKED BY: SM				DATE: 26 FEB 2018	



1 TYPICAL 1-BEDROOM TYPE "A" UNIT - FIRST FLOOR
 Scale: 3/8" = 1'-0"



2 TYPICAL 2-BEDROOM TYPE "A" UNIT - FIRST FLOOR
 Scale: 3/8" = 1'-0"

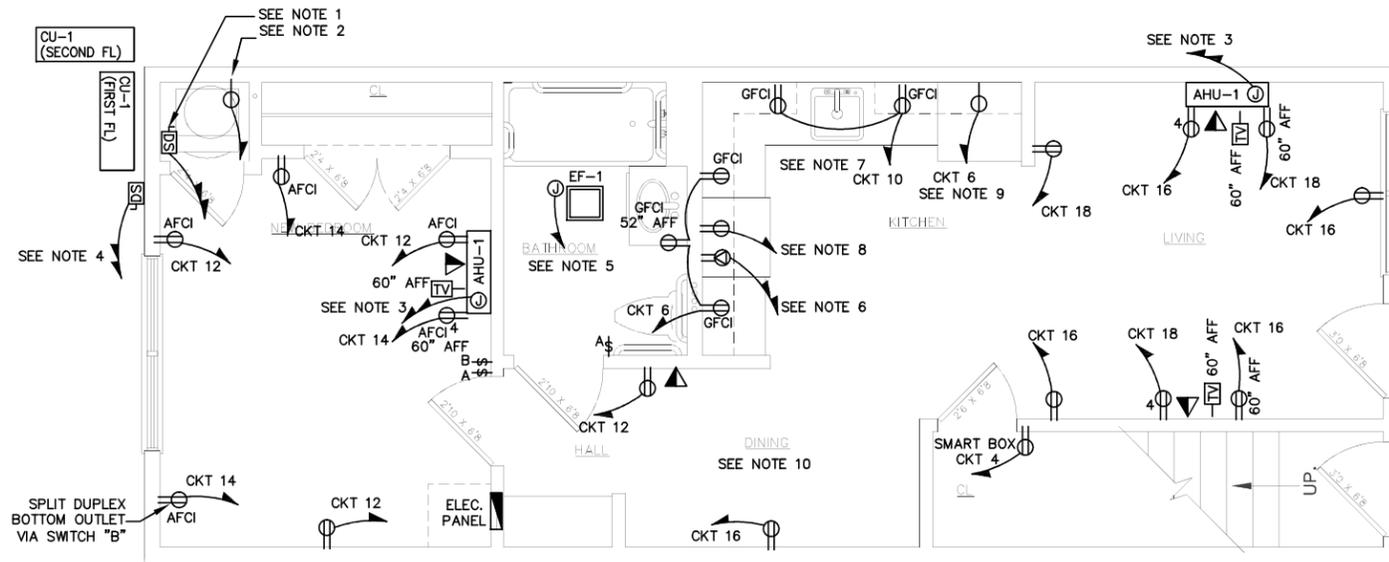
CIRCUIT DESCRIPTION	BREAKER		VA	DEMAND FACTOR	CKT NO.	PHASE		CKT NO.	DEMAND FACTOR	VA	BREAKER		CIRCUIT DESCRIPTION
	AMP.	POLE				A	B				POLE	AMP.	
Heat Pl. S. System	40	2	3540	-	1			2	-	-	1	15	Li. Lin., Bat. room Fan
Elec. Tri. Water Heater	40	2	3000	-	5			4	-	-	1	15	Li. Lin., Ran. Hood
		2	3000	-	7			8	-	-	1	15	Kit. Len. O.lets
Elec. Tri. Range	50	2	4800	-	9			10	-	-	1	15	Kit. Len. O.lets
		2	4800	-	11			12	-	-	1	15	General O.lets, Bedroom
Laundry Machine	15	1	1200	-	13			14	-	-	1	15	General O.lets, Bedroom
BLANK	-	-	-	-	15			16	-	-	1	15	General O.lets
Smoke Detectors (Dedicated Circuit)	15	1	-	-	17			18	-	-	1	15	General O.lets
BLANK	-	-	-	-	19			20	-	-	-	-	-

PANEL NO.: -
 MAIN BREAKER: 100 AMP
 VOLTAGE: 120/240V
 PHASE: 1Ø 3 WIRE
 MOUNTING: RECESSED
 LOCATION: SEE PLANS

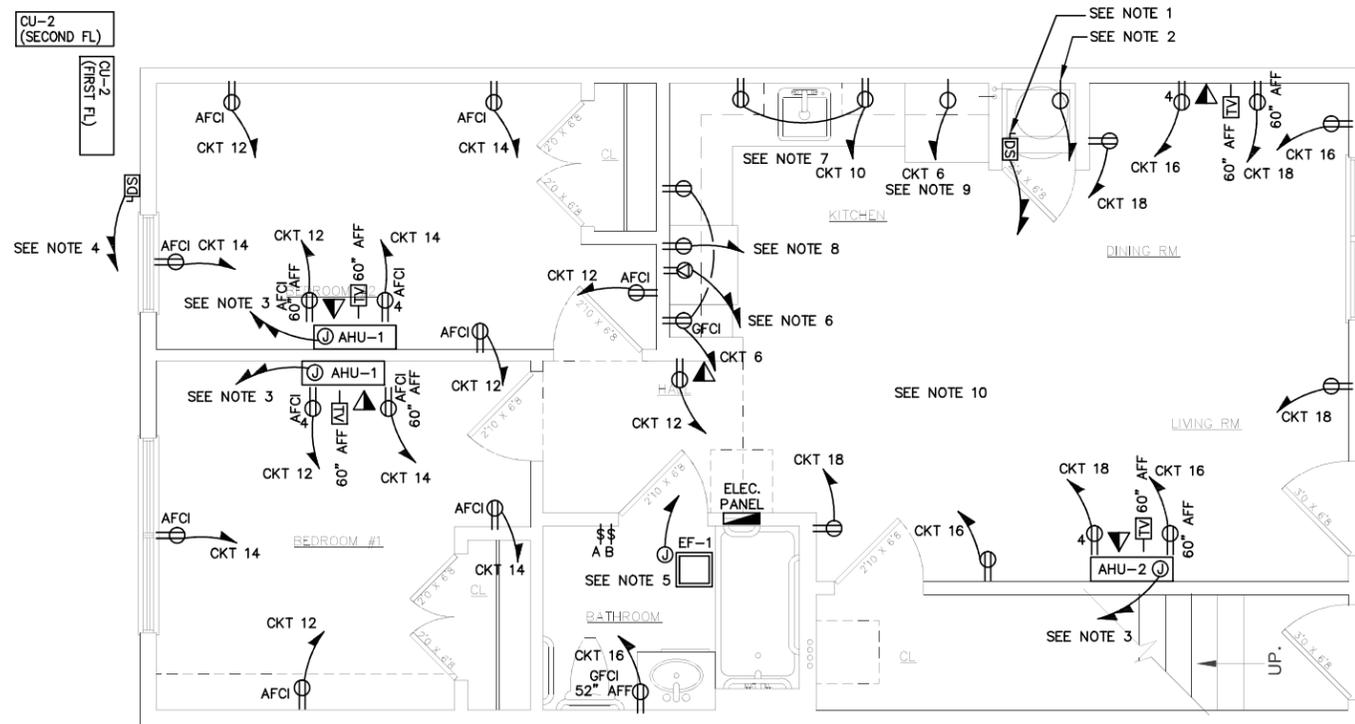
CONNECTED LOAD: -
 DEMAND LOAD: -

- NOTES:
- ELECTRIC WATER HEATER: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 5,7. LOCATE DISCONNECT AT 72" AFF.
 - LAUNDRY MACHINE: PROVIDE (2) #12 AND (1) #10 GND FROM CIRCUIT 13. LOCATE GFCI SIMPLEX OUTLET AT 48" AFF.
 - AIR HANDLER: PROVIDE (3) #12 AND (1) #12 GND FROM CONDENSER UNIT TERMINAL BLOCK (240V)
 - CONDENSER UNIT: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 1,3. LOCATE NEMA3R DISCONNECT SWITCH AT 48" ABOVE GRADE.
 - EXHAUST FAN: PROVIDE GFCI PROTECTED CIRCUIT FROM CIRCUIT 2. FAN TO COME ON WITH LIGHT OVER VANITY.
 - ELECTRIC RANGE: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 9,11
 - KITCHEN COUNTER OUTLETS TO BE 10" ABOVE COUNTER AND GFCI PROTECTED.
 - RANGE HOOD: PROVIDE (2) #12 AND (1) #14 GND FROM CIRCUIT 4. FOR TYPE "A" UNITS ONLY, PROVIDE (1) 2-POSITION SWITCH FOR HOOD LIGHT AND (1) 3-POSITION SWITCH FOR FAN OFF/LOW/HIGH CONTROL IN WALL AT 46" AFF ALONG WITH ALL NECESSARY WIRING TO HOOD.
 - REFRIGERATOR: PROVIDE OUTLET AT 48" AFF
 - ALL GENERAL OUTLETS TO BE 18" AFF UNLESS OTHERWISE NOTED.

OFFICIAL USE ONLY



1 TYPICAL 1-BEDROOM TYPE "B" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"



2 TYPICAL 2-BEDROOM TYPE "B" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"

CIRCUIT DESCRIPTION		BREAKER AMP.	POLE	VA	DEMAND FACTOR	CKT NO.	A	B	CKT NO.	DEMAND FACTOR	VA	BREAKER POLE	AMP.	CIRCUIT DESCRIPTION
Heat P...S...stem		40	2	3540	-	1			2	-	-	1	15	Li...ti... Bat...room Fan
Ele...tri...Water Heater		40	2	3540	-	3			4	-	-	1	15	Li...ti... Ran...e Hood
						5			6	-	-	1	15	Refr...erator
						7			8	-	-	1	15	Kit...en O...utlets
Ele...tri...Ran...e		50	2	4800	-	9			10	-	-	1	15	Kit...en O...utlets
						11			12	-	-	1	15	General O...utlets, Bedroom
La...ndr...Ma...chine		15	1	1200	-	13			14	-	-	1	15	General O...utlets, Bedroom
BLANK		-	-	-	-	15			16	-	-	1	15	General O...utlets
Sm...e Dete...tors (Dedi...ated Cir...uit)		15	1	-	-	17			18	-	-	1	15	General O...utlets
BLANK		-	-	-	-	19			20	-	-	-	-	-

PANEL NO.: - MAIN BREAKER: 100 AMP VOLTAGE: 120/240V PHASE: 1Ø 3 WIRE MOUNTING: RECESSED LOCATION: SEE PLANS

CONNECTED LOAD: - DEMAND LOAD: -

- NOTES:
- ELECTRIC WATER HEATER: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 5,7. LOCATE DISCONNECT AT 72" AFF.
 - LAUNDRY MACHINE: PROVIDE (2) #12 AND (1) #10 GND FROM CIRCUIT 13. LOCATE GFCI SIMPLEX OUTLET AT 48" AFF.
 - AIR HANDLER: PROVIDE (3) #12 AND (1) #12 GND FROM CONDENSER UNIT TERMINAL BLOCK (240V)
 - CONDENSER UNIT: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 1,3. LOCATE NEMA3R DISCONNECT SWITCH AT 48" ABOVE GRADE.
 - EXHAUST FAN: PROVIDE GFCI PROTECTED CIRCUIT FROM CIRCUIT 2. FAN TO COME ON WITH LIGHT OVER VANITY.
 - ELECTRIC RANGE: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 9,11
 - KITCHEN COUNTER OUTLETS TO BE 10" ABOVE COUNTER AND GFCI PROTECTED.
 - RANGE HOOD: PROVIDE (2) #12 AND (1) #14 GND FROM CIRCUIT 4. FOR TYPE "A" UNITS ONLY, PROVIDE (1) 2-POSITION SWITCH FOR HOOD LIGHT AND (1) 3-POSITION SWITCH FOR FAN OFF/LOW/HIGH CONTROL IN WALL AT 46" AFF ALONG WITH ALL NECESSARY WIRING TO HOOD.
 - REFRIGERATOR: PROVIDE OUTLET AT 48" AFF
 - ALL GENERAL OUTLETS TO BE 18" AFF UNLESS OTHERWISE NOTED.

OFFICIAL USE ONLY

NO.	DATE	REVISION	INT.



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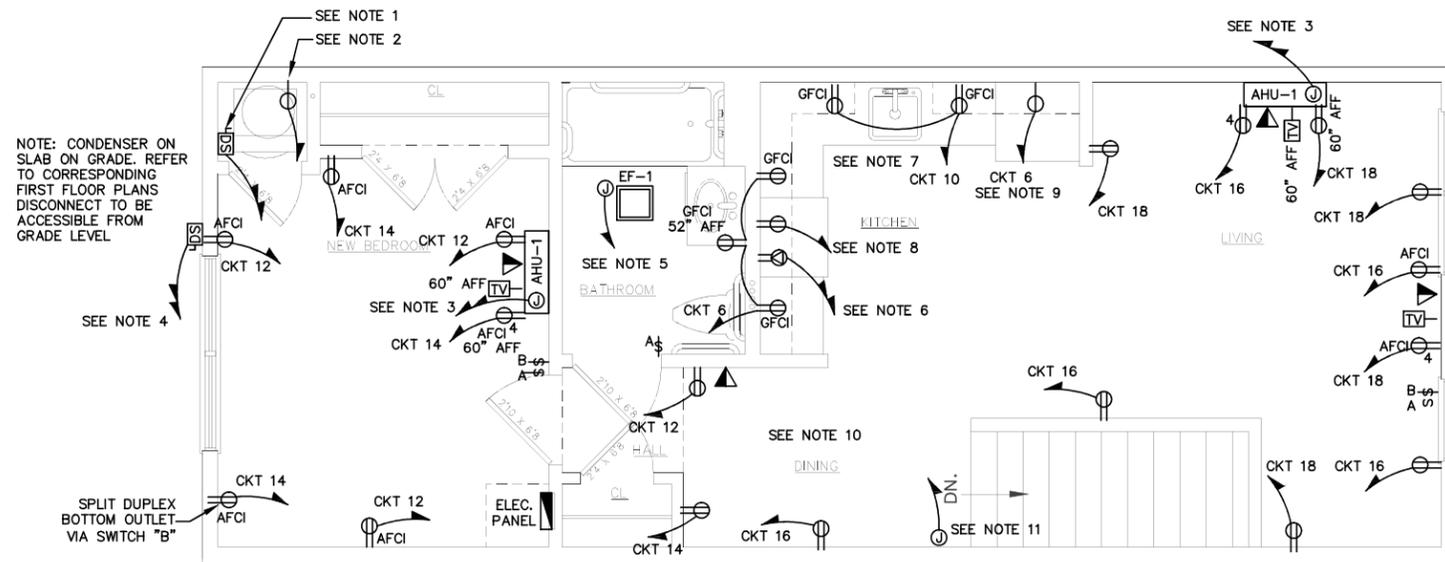
PROJECT ENGINEER: SM
DRAWN BY: DS
DESIGNED BY: SM
CHECKED BY: SM



NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
POWER PLAN OF 1 AND 2 BEDROOM UNITS
TYPE "B" FIRST FLOOR

PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
DRAWING NO. E03

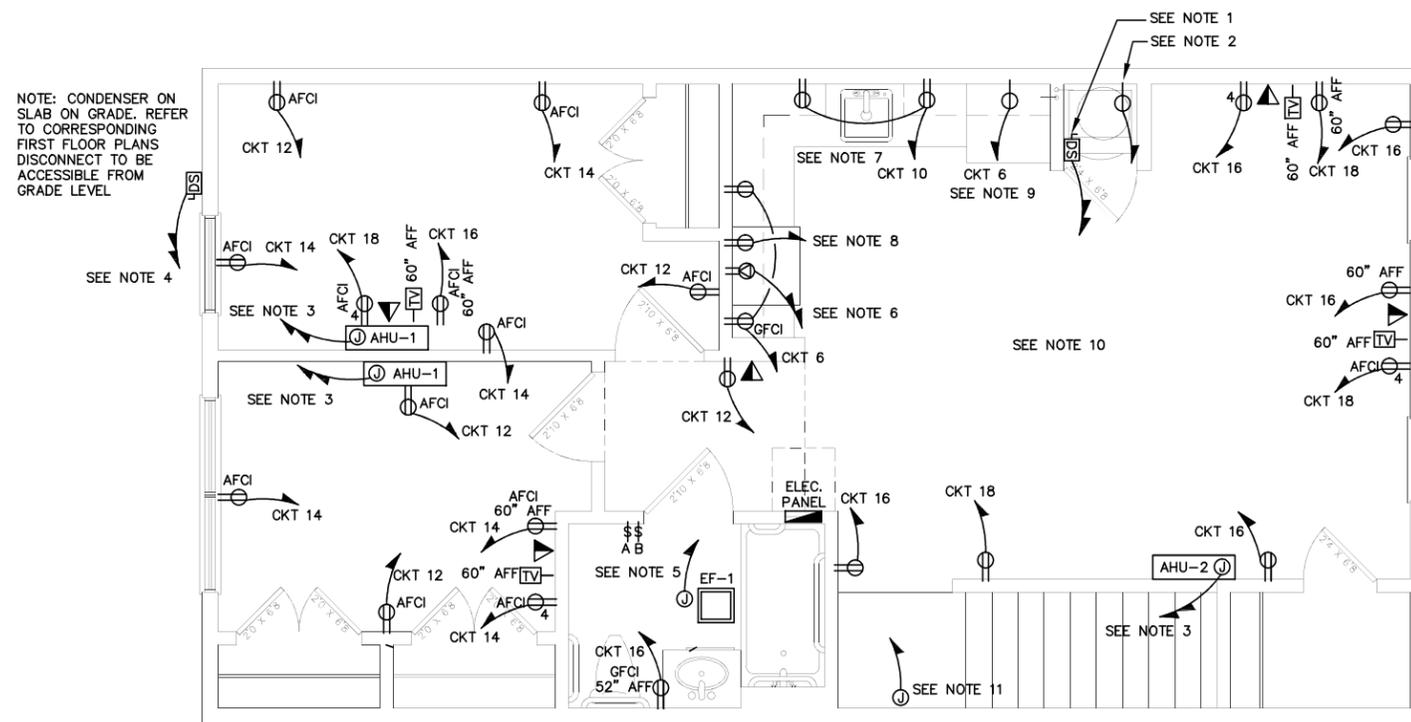


1 TYPICAL 1-BEDROOM TYPE "B" UNIT - SECOND FLOOR
 Scale: 3/8" = 1'-0"

CIRCUIT DESCRIPTION		BREAKER AMP.	POLE	VA	DEMAND FACTOR	CKT NO.	A	B	CKT NO.	DEMAND FACTOR	VA	BREAKER POLE	AMP.	CIRCUIT DESCRIPTION
Heat Pump System		40	2	3540	-	1			2	-	-	1	15	Living, Bathroom Fan
Electric Water Heater		40	2	3540	-	3			4	-	-	1	15	Living, Range Hood
Electric Range		50	2	4800	-	5			6	-	-	1	15	Refrigerator
Laundry Machine		15	1	1200	-	7			8	-	-	1	15	Kitchen Outlets
Blank		-	-	-	-	9			10	-	-	1	15	Kitchen Outlets
Blank		-	-	-	-	11			12	-	-	1	15	General Outlets, Bedroom
Blank		-	-	-	-	13			14	-	-	1	15	General Outlets, Bedroom
Blank		-	-	-	-	15			16	-	-	1	15	General Outlets
Blank		-	-	-	-	17			18	-	-	1	15	General Outlets
Blank		-	-	-	-	19			20	-	-	-	-	-

CONNECTED LOAD: -
 DEMAND LOAD: -

- NOTES:**
- ELECTRIC WATER HEATER: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 5,7. LOCATE DISCONNECT AT 72" AFF.
 - LAUNDRY MACHINE: PROVIDE (2) #12 AND (1) #10 GND FROM CIRCUIT 13. LOCATE GFCI SIMPLEX OUTLET AT 48" AFF.
 - AIR HANDLER: PROVIDE (3) #12 AND (1) #12 GND FROM CONDENSER UNIT TERMINAL BLOCK (240V)
 - CONDENSER UNIT: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 1,3. LOCATE NEMA3R DISCONNECT SWITCH AT 48" ABOVE GRADE.
 - EXHAUST FAN: PROVIDE GFCI PROTECTED CIRCUIT FROM CIRCUIT 2. FAN TO COME ON WITH LIGHT OVER VANITY.
 - ELECTRIC RANGE: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 9,11
 - KITCHEN COUNTER OUTLETS TO BE 10" ABOVE COUNTER AND GFCI PROTECTED.
 - RANGE HOOD: PROVIDE (2) #12 AND (1) #14 GND FROM CIRCUIT 4. FOR TYPE "A" UNITS ONLY, PROVIDE (1) 2-POSITION SWITCH FOR HOOD LIGHT AND (1) 3-POSITION SWITCH FOR FAN OFF/LOW/HIGH CONTROL IN WALL AT 46" AFF ALONG WITH ALL NECESSARY WIRING TO HOOD.
 - REFRIGERATOR: PROVIDE OUTLET AT 48" AFF
 - ALL GENERAL OUTLETS TO BE 18" AFF UNLESS OTHERWISE NOTED.
 - SECOND FLOOR UNITS ONLY: PROVIDE (2) #12 AND (1) #14 G FROM HOUSE PANEL CKT 12 TO JUNCTION BOX AT TOP OF STAIRS, 18" A.F.F. FOR FUTURE CHAIR LIFT. TERMINATE AND MAKE SAFE WIRING FOR FUTURE CONNECTION AND PROVIDE BLANK COVER PLATE.



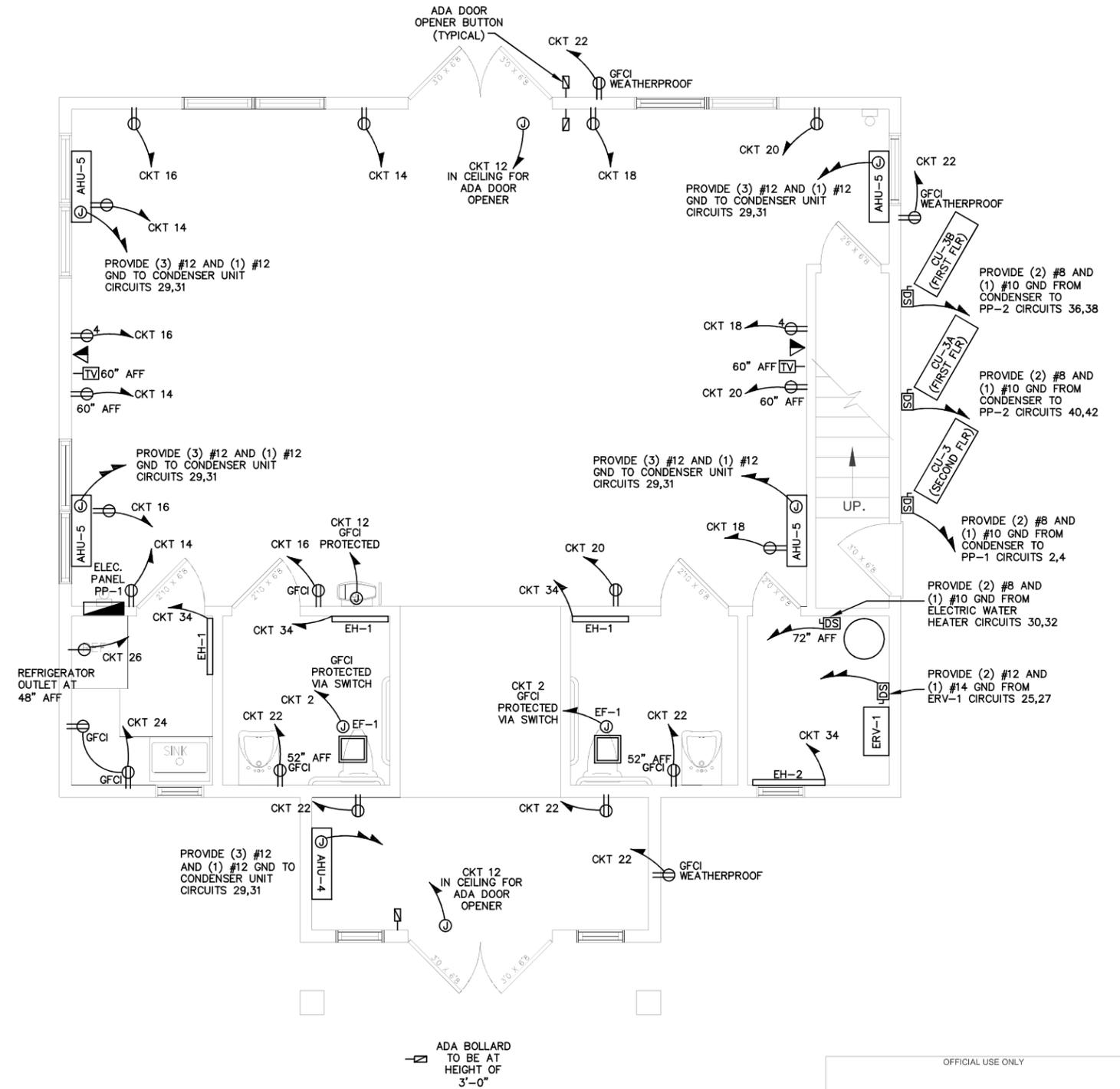
2 TYPICAL 2-BEDROOM TYPE "B" UNIT - SECOND FLOOR
 Scale: 3/8" = 1'-0"

OFFICIAL USE ONLY

CIRCUIT DESCRIPTION	BREAKER		VA	DEMAND FACTOR	CKT NO.	PHASE		CKT NO.	DEMAND FACTOR	VA	BREAKER		CIRCUIT DESCRIPTION
	AMP.	POLE				A	B				POLE	AMP.	
House Panel HP-1 (On Bld 1)	20	2	2400	-	1			2	-				BLANK
House Panel HP-2 (On Bld 2)	20	2	2400	-	3			4	-				BLANK
House Panel HP-3 (On Bld 3)	20	2	2400	-	5			6	-				BLANK
House Panel HP-4 (On Bld 4)	20	2	2400	-	7			8	-	1	15		Lit. in
House Panel HP-5 (On Bld 5)	20	2	2400	-	9			10	-	1	15		Lit. in
House Panel HP-6 (On Bld 6)	20	2	2400	-	11			12	-	1	15		Water Cooler/Door Openers
ERV-1	15	2	924	-	13			14	-	1	15		Outlets, Grand Room
Air Handlers AHU-4, AHU-5	15	2	520	-	15			16	-	1	15		Outlets, Grand Room
ERV-1	15	2	924	-	17			18	-	1	15		Outlets, Grand Room
Air Handlers AHU-4, AHU-5	15	2	520	-	19			20	-	1	15		Outlets, Grand Room
ERV-1	15	2	924	-	21			22	-	1	15		Outlets, Vestibule/Restrooms
Air Handlers AHU-4, AHU-5	15	2	520	-	23			24	-	1	15		Outlets, Kitchenette
ERV-1	15	2	924	-	25			26	-	1	15		Refrigerator
Air Handlers AHU-4, AHU-5	15	2	520	-	27			28	-	1	15		Exterior Lighting
Air Handlers AHU-4, AHU-5	15	2	520	-	29			30	-	3000	2	40	Electric Water Heater
BLANK					31			32	-	3000	2		
BLANK					33			34	-	5520	1	20	Electric Baseboard Heaters
Smoke Detectors (Dedicated Circuit)	15	1	-	-	35			36	-	4368	2	50	CU-3A
Second Floor Panel PP-2	100	2	-	-	37			38	-	4368	2	50	CU-3A
		2	-	-	39			40	-	4368	2	50	CU-3A
		2	-	-	41			42	-	4368	2	50	CU-3A

* REQUIRES TYPE D CIRCUIT BREAKER

CONNECTED LOAD: -
DEMAND LOAD: -



ELECTRICAL POWER PLAN OF COMMUNITY BUILDING
1 Scale: 3/8" = 1'-0"

OFFICIAL USE ONLY

NO.	DATE	REVISION	INT.



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PROJECT ENGINEER: SM
DRAWN BY: DS
DESIGNED BY: SM
CHECKED BY: SM



NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO. 5081
FIRST FLOOR ELECTRICAL POWER PLAN OF COMMUNITY BUILDING

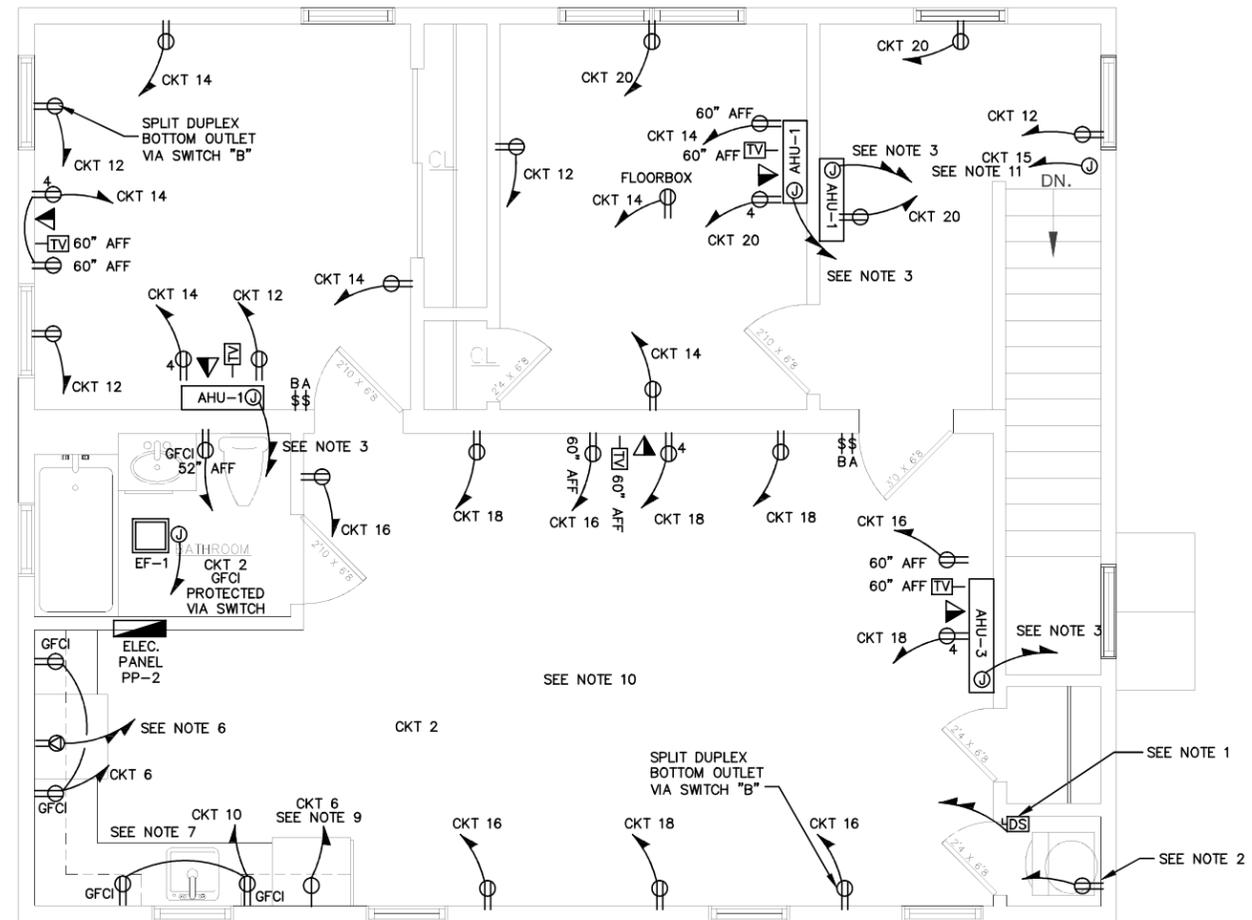
PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
E05

PANEL NO.: PP-2 MAIN BREAKER: 100 AMP		VOLTAGE: 120/240- PHASE: 1Ø 3 WIRE										MOUNTING: RECESSED LOCATION: SEE PLANS			
CIRCUIT DESCRIPTION	BREAKER		VA	DEMAND FACTOR	CKT NO.	A		B		CKT NO.	DEMAND FACTOR	VA	BREAKER		CIRCUIT DESCRIPTION
	AMP.	POLE											POLE	AMP.	
Heat Pump System	40	2	3540	-	1					2	-	-	1	15	Living Room Fan
Electric Water Heater	40	2	3540	-	3					4	-	-	1	15	Living Room Range Hood
					5					6	-	-	1	15	Refrigerator
					7					8	-	-	1	15	Kitchen Outlets
Electric Range	40	2	3000	-	9					10	-	-	1	15	Kitchen Outlets
					11					12	-	-	1	15	General Outlets, Bedroom/Office
Laundry Machine	15	1	1200	-	13					14	-	-	1	15	General Outlets, Bedroom/Office
BLANK	-	-	-	-	15					16	-	-	1	15	General Outlets
Smoke Detectors (Dedicated Circuit)					17					18	-	-	1	15	General Outlets
					19					20	-	-	1	15	General Outlets/Office
					21					22	-	-	1	15	General Outlets/Office
					23					24	-	-	1	15	General Outlets/Office

CONNECTED LOAD: -
DEMAND LOAD: -

NOTES:

- ELECTRIC WATER HEATER: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 5,7. LOCATE DISCONNECT AT 72" AFF.
- LAUNDRY MACHINE: PROVIDE (2) #12 AND (1) #10 GND FROM CIRCUIT 13. LOCATE GFCI SIMPLEX OUTLET AT 48" AFF.
- AIR HANDLER: PROVIDE (3) #12 AND (1) #12 GND FROM CONDENSER UNIT TERMINAL BLOCK (240V)
- CONDENSER UNIT: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 1,3. LOCATE NEMA3R DISCONNECT SWITCH AT 48" ABOVE GRADE.
- EXHAUST FAN: PROVIDE GFCI PROTECTED CIRCUIT FROM CIRCUIT 2. FAN TO COME ON WITH LIGHT OVER VANITY.
- ELECTRIC RANGE: PROVIDE (2) #8 AND (1) #10 GND FROM CIRCUITS 9,11
- KITCHEN COUNTER OUTLETS TO BE 10" ABOVE COUNTER AND GFCI PROTECTED.
- RANGE HOOD: PROVIDE (2) #12 AND (1) #14 GND FROM CIRCUIT 4. FOR TYPE "A" UNITS ONLY, PROVIDE (1) 2-POSITION SWITCH FOR HOOD LIGHT AND (1) 3-POSITION SWITCH FOR FAN OFF/LOW/HIGH CONTROL IN WALL AT 46" AFF ALONG WITH ALL NECESSARY WIRING TO HOOD.
- REFRIGERATOR: PROVIDE OUTLET AT 48" AFF
- ALL GENERAL OUTLETS TO BE 18" AFF UNLESS OTHERWISE NOTED.



**ELECTRICAL POWER PLAN OF COMMUNITY BUILDING
SECOND FLOOR**

1
Scale: 3/8" = 1'-0"

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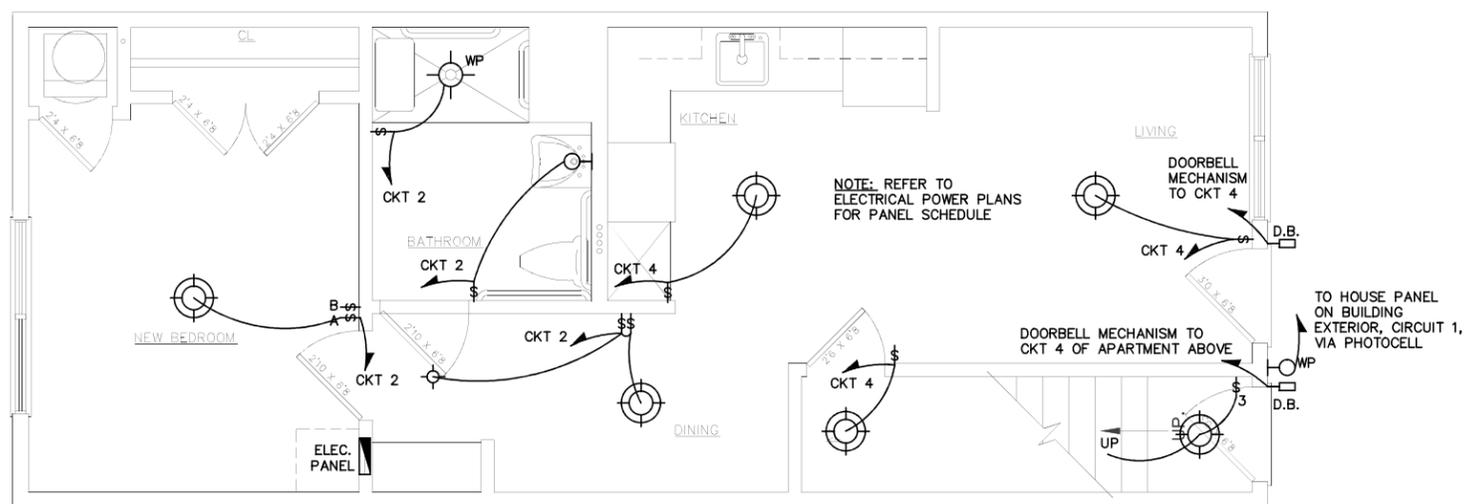
PROJECT ENGINEER: SM
DRAWN BY: DS
DESIGNED BY: SM
CHECKED BY: SM



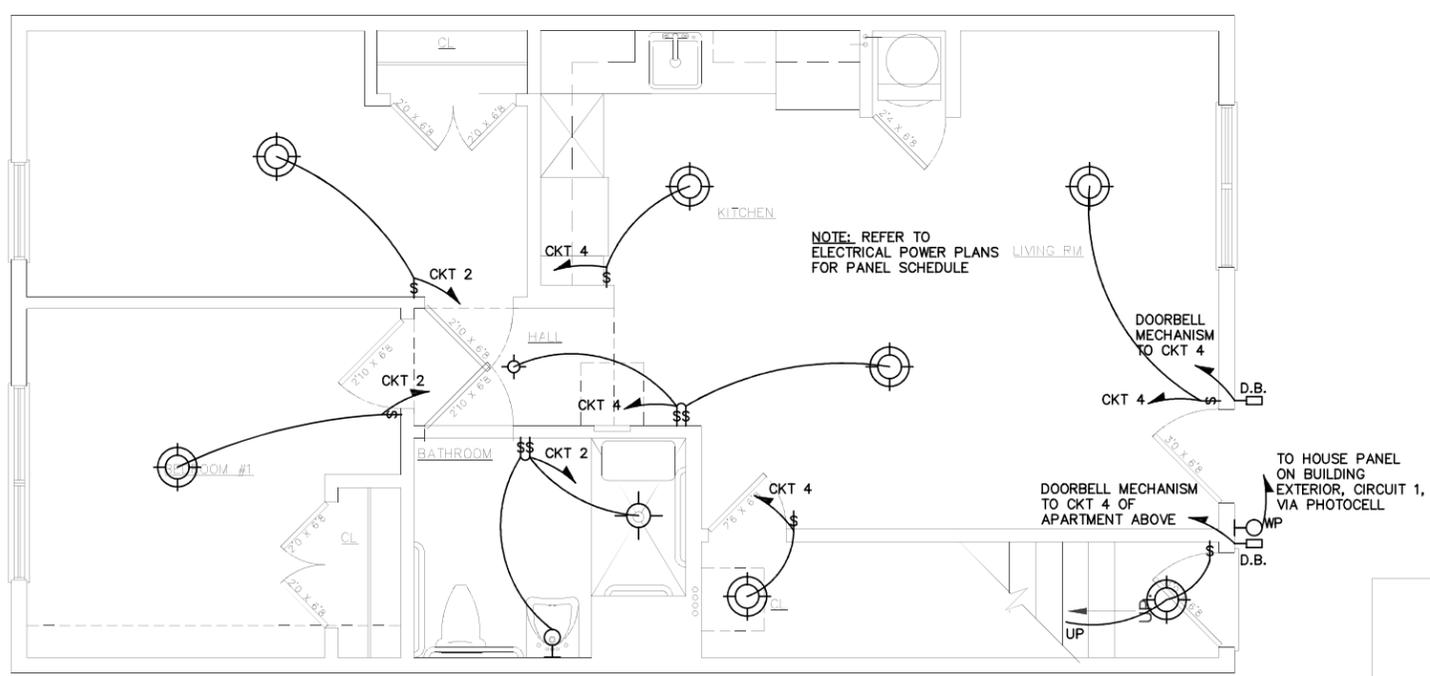
NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
SECOND FLOOR ELECTRICAL POWER PLAN OF COMMUNITY BUILDING

PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
E06

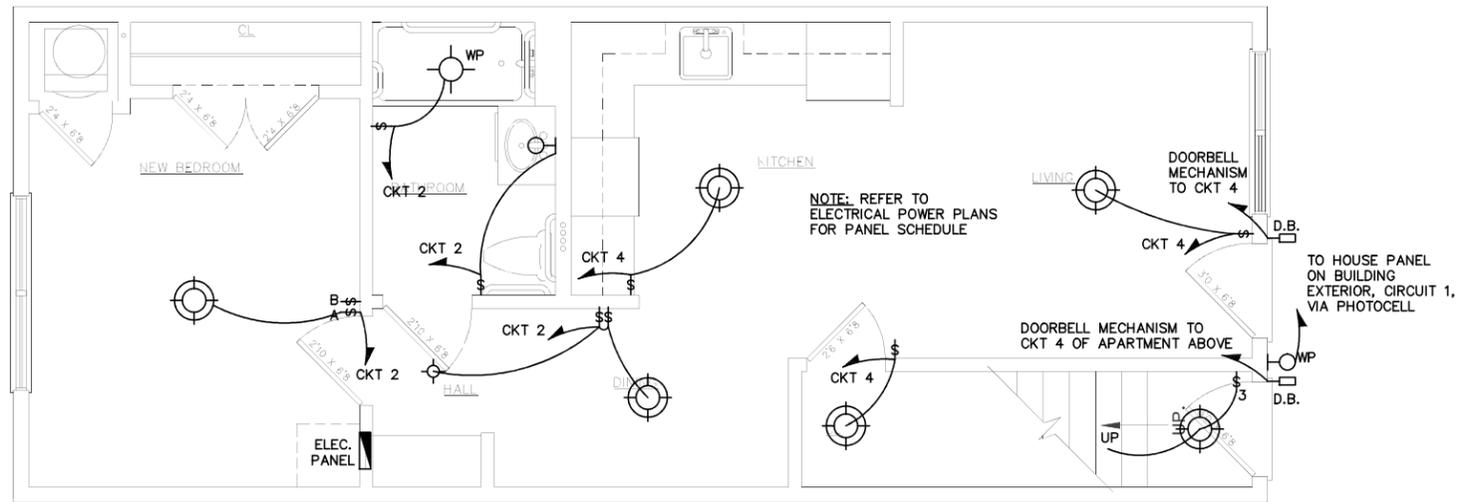


① TYPICAL 1-BEDROOM TYPE "A" UNIT - FIRST FLOOR
 Scale: 3/8" = 1'-0"

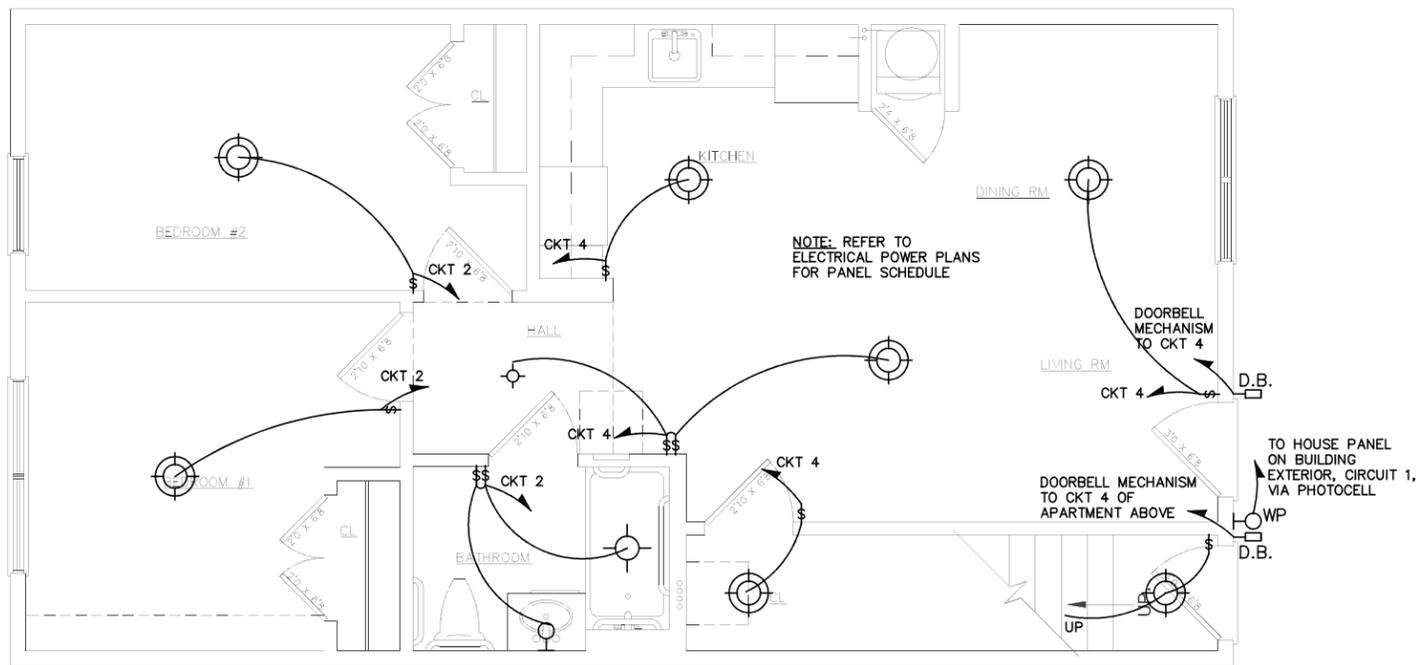


② TYPICAL 2-BEDROOM TYPE "A" UNIT - FIRST FLOOR
 Scale: 3/8" = 1'-0"

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① TYPICAL 1-BEDROOM TYPE "B" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"



② TYPICAL 2-BEDROOM TYPE "B" UNIT - FIRST FLOOR
Scale: 3/8" = 1'-0"

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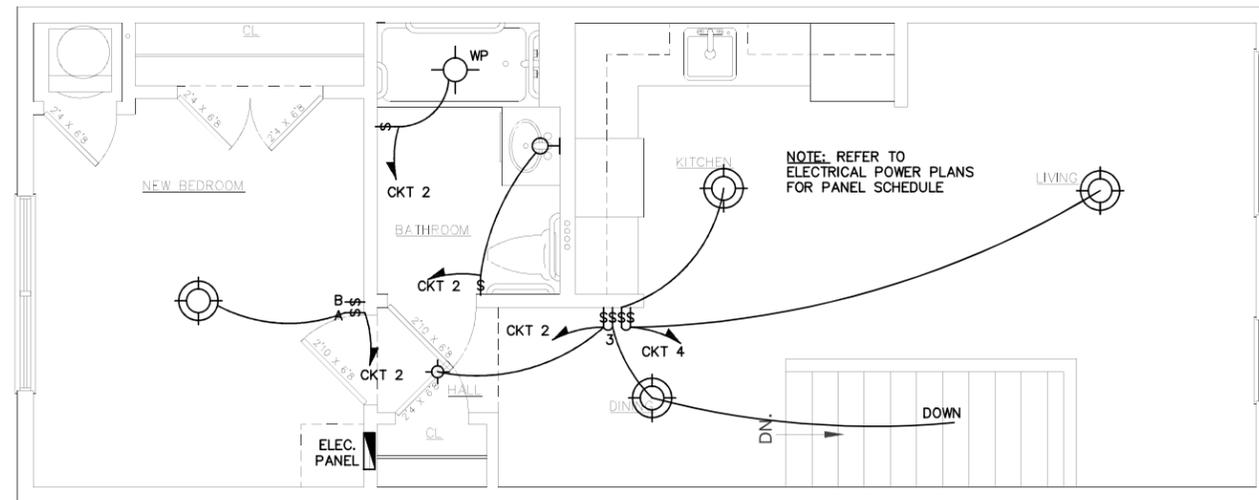
GRAND STREET APARTMENTS

CONTRACT NO. 5081

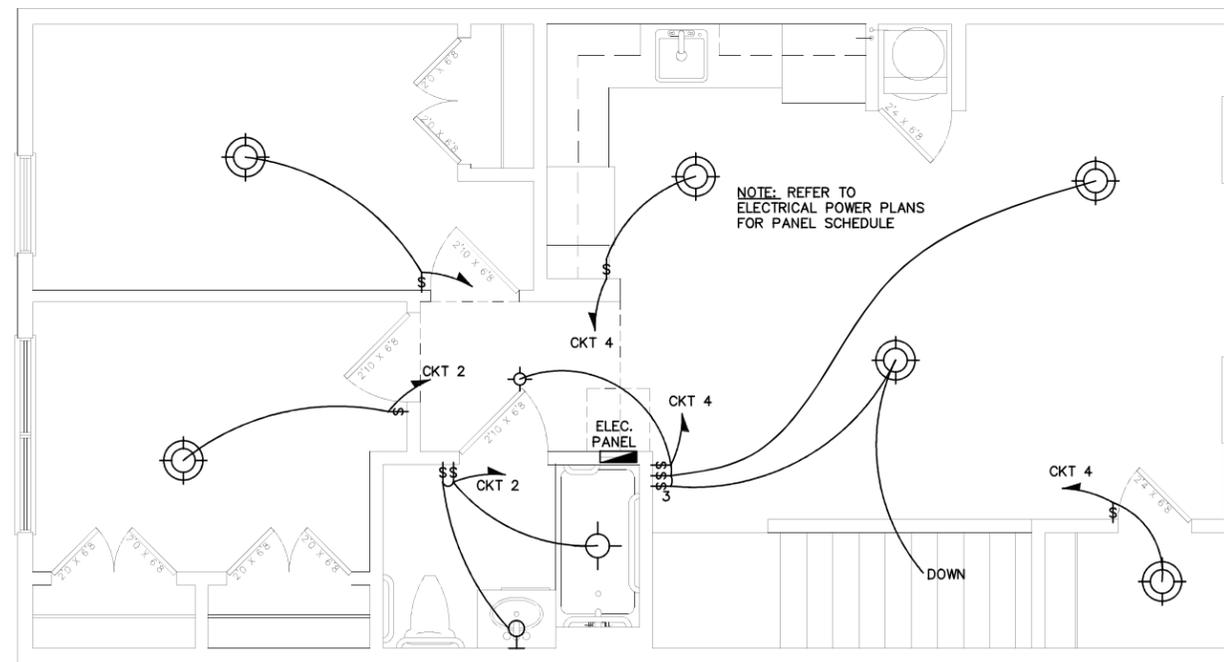
LIGHTING PLAN OF 1 AND 2 BEDROOM UNITS TYPE "B" FIRST FLOOR

PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED

E08



① TYPICAL 1-BEDROOM TYPE "B" UNIT - SECOND FLOOR
 Scale: 3/8" = 1'-0"



② TYPICAL 2-BEDROOM TYPE "B" UNIT - SECOND FLOOR
 Scale: 3/8" = 1'-0"

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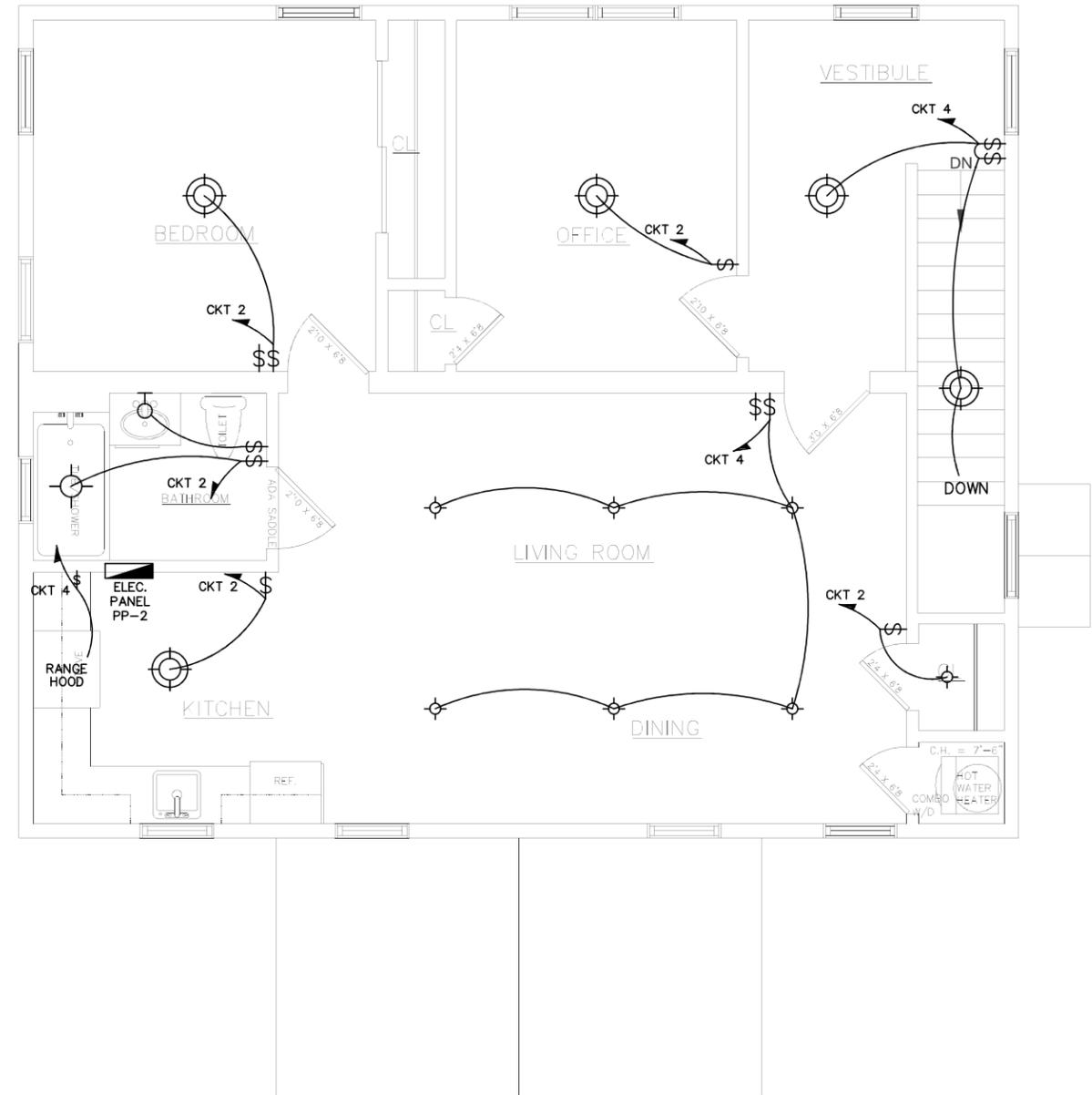
PROJECT ENGINEER: SM
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GRAND STREET APARTMENTS

CONTRACT NO.
LIGHTING PLAN OF 1 AND 2 BEDROOM UNITS TYPE "B" SECOND FLOOR

PROJECT NO. 5081
 DATE: 26 FEB 2018
 SCALE: AS NOTED
E09



2 ELECTRICAL LIGHTING PLAN OF COMMUNITY BUILDING
SECOND FLOOR
Scale: 3/8" = 1'-0"

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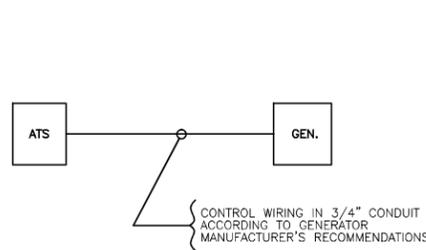
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NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
SECOND FLOOR LIGHTING PLAN OF COMMUNITY BUILDING

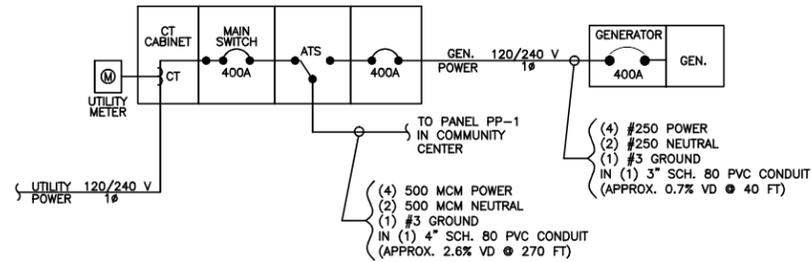
PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED

DRAWING NO. **E11**

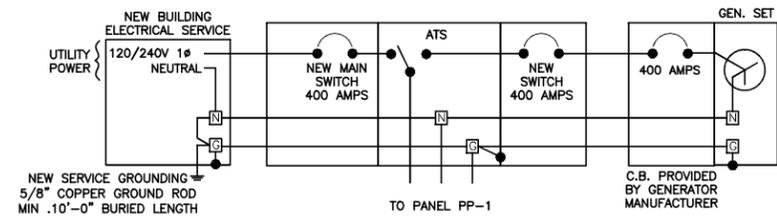
GENERATOR SCHEDULE									
LOCATION	MFG.	MODEL #	VOLTAGE	OUTPUT	ALTERNATOR	ENGINE	FUEL SYSTEM	WEIGHT	REMARKS
SEE SITE PLANS	TAYLOR POWER SYSTEMS	TG100	120/240 V 60 HZ	100KW 100KVA 417 AMP CONTINUOUS	MARATON ELEC. 363CSL1617	GENERAL MOTORS 5.7 LITER 4 CYCLE NATURAL ASPIRATION V-8 160.9 HP @ 1800 RPM	NATURAL GAS 1389 CFH @ PEAK POWER 7" TO 11" WC INLET PRESSURE REQUIRED	3500 LBS. APPROX. INCL. ENCLOSURE	PROVIDE WITH THE FOLLOWING OPTIONS: LEVEL 2 ENCLOSURE, LEVEL 3 HOSPITAL SILENCER BATTERY CHARGER, BLOCK HEATER, LINE CIRCUIT BREAKER



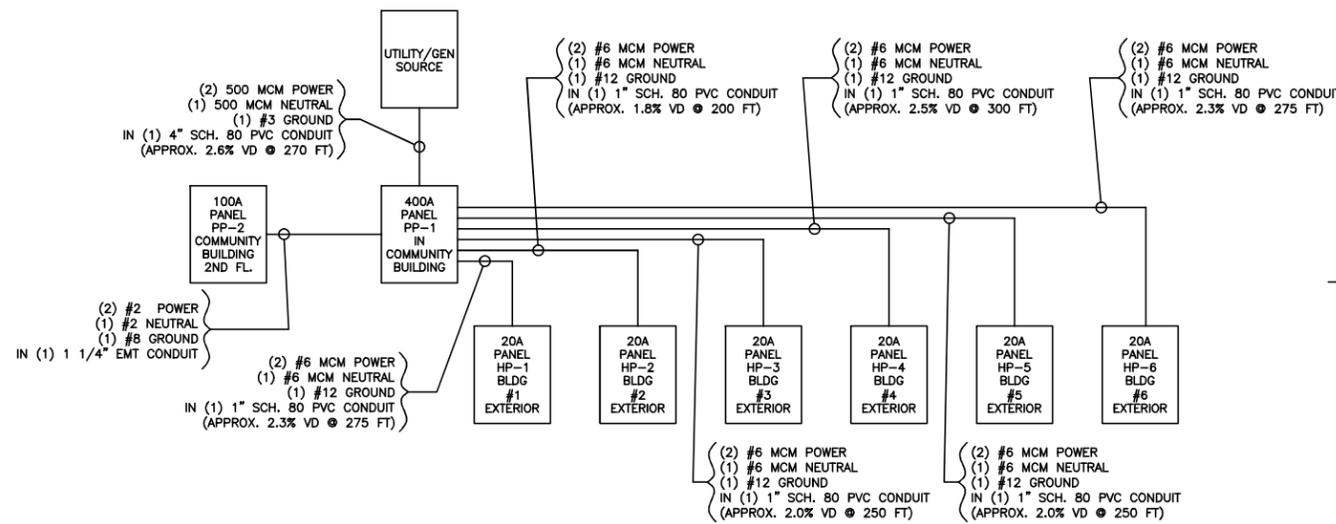
1 ATS/GENERATOR CONTROL WIRING
Scale: NO SCALE



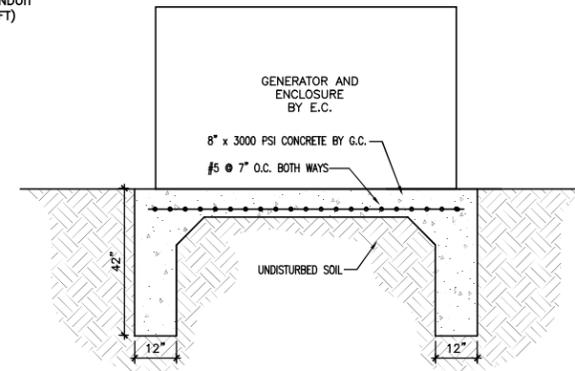
2 UTILITY POWER FEED/GENERATOR POWER RISER DIAGRAM
Scale: NO SCALE



3 GENERATOR SET/BUILDING POWER AND GROUNDING ONE-LINE DIAGRAM
Scale: NO SCALE

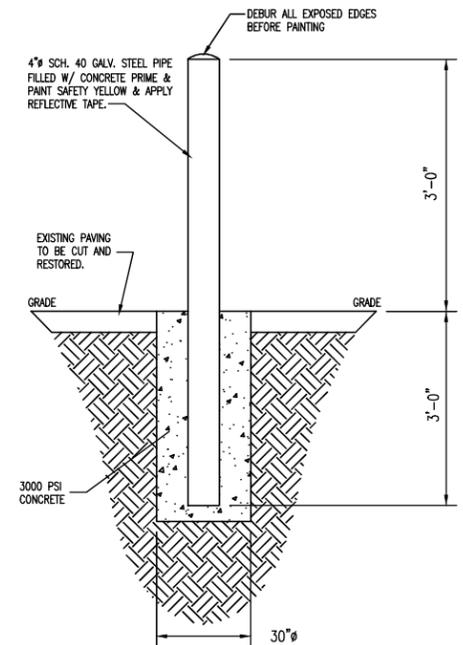


4 HOUSE POWER DISTRIBUTION ONE-LINE DIAGRAM
Scale: NO SCALE



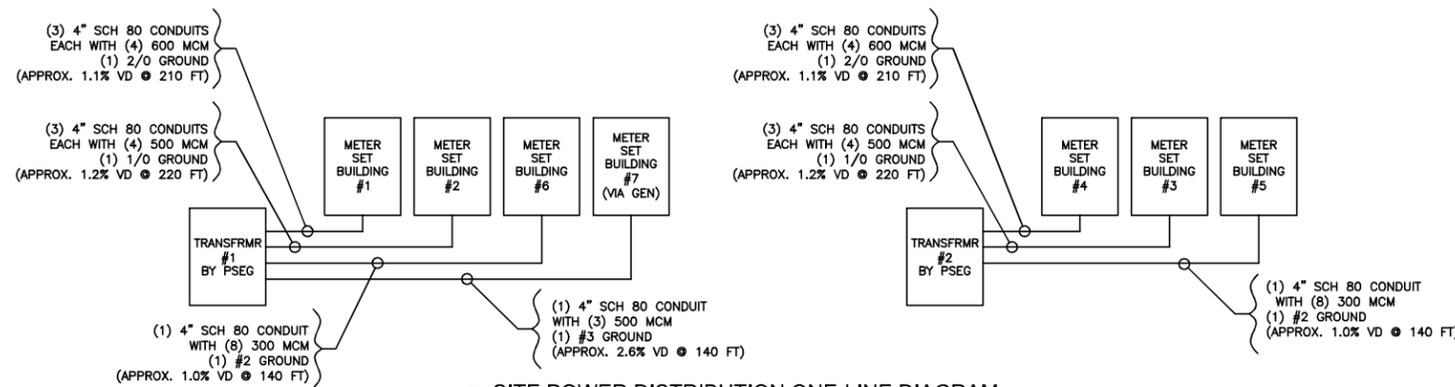
5 GENERATOR FOUNDATION SECTION/DETAIL
Scale: NO SCALE

FOUNDATION AND ASSOCIATED EXCAVATION, BACKFILLING AND PATCHING BY GENERAL CONTRACTOR
NOTE: ELECTRICAL CONTRACTOR TO FURNISH ALL EQUIPMENT CUTS AND COORDINATE WITH FACILITY AND GENERAL CONTRACTOR FOR THE INSTALLATION OF CONDUIT WITHIN FOUNDATIONS AND MOUNTING OF EQUIPMENT.

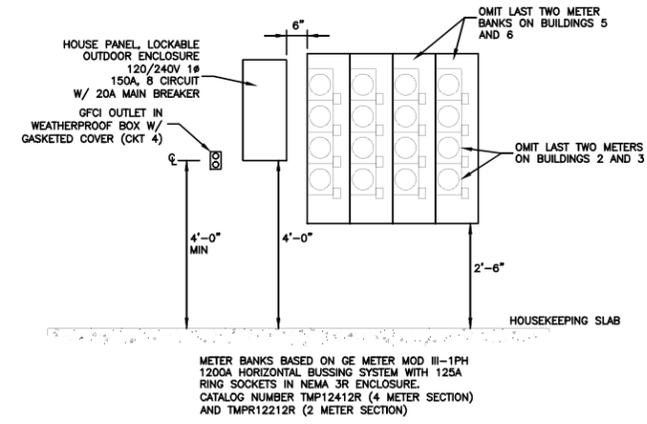


6 FIXED BOLLARD DETAIL
Scale: NO SCALE

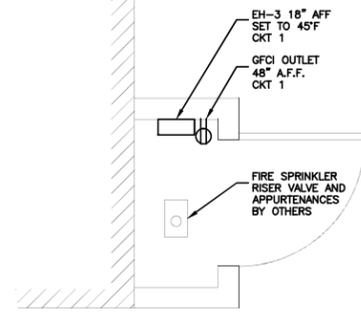
NOTE: BY GENERAL CONTRACTOR



7 SITE POWER DISTRIBUTION ONE-LINE DIAGRAM
Scale: NO SCALE



2 TYPICAL ELECTRICAL ELEVATION - BUILDING EXTERIOR
Scale: 1/2" = 1'-0"



3 SPRINKLER RISER CLOSET PLAN
Scale: 1/2" = 1'-0"

ELECTRICAL LOAD CALCULATIONS

MONTHLY DEMAND - BUILDINGS 1, 4

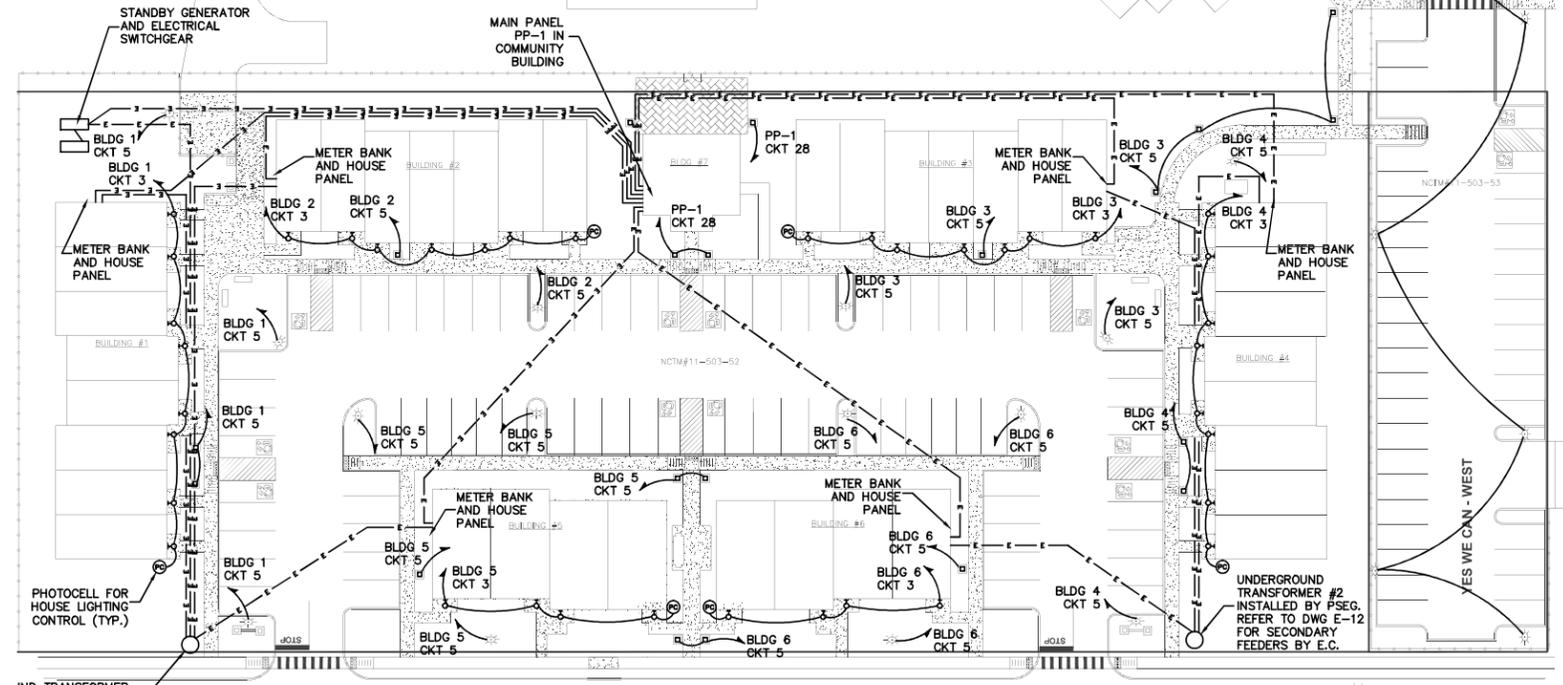
LIGHTING:	37	W
AIR CONDITIONING:	162	W (NOTE: HEAT PUMP SYSTEM)
ELECTRIC RANGES:	31	W
MISC. LOADS:	87	W
TOTAL MONTHLY DEMAND:	350	W

MONTHLY DEMAND - BUILDINGS 2, 3

LIGHTING:	37	W
AIR CONDITIONING:	126	W (NOTE: HEAT PUMP SYSTEM)
ELECTRIC RANGES:	24	W
MISC. LOADS:	77	W
TOTAL MONTHLY DEMAND:	308	W

MONTHLY DEMAND - BUILDINGS 5, 6

LIGHTING:	26	W
AIR CONDITIONING:	72	W (NOTE: HEAT PUMP SYSTEM)
ELECTRIC RANGES:	23	W
MISC. LOADS:	44	W
TOTAL MONTHLY DEMAND:	186	W



1 ELECTRICAL SITE PLAN
Scale: 1" = 30'-0"

CIRCUIT DESCRIPTION	BREAKER		VA	DEMAND FACTOR	C-T NO.	C-T		DEMAND FACTOR	VA	BREAKER		CIRCUIT DESCRIPTION
	AMP.	POLE				A	B			AMP.	POLE	
Sprinkler Closet Heater Outlet	15	1	1000	-	1		2	-	-	1	15	GFCI Outlet - Security System
Exterior Building Lighting	15	1	-	-	3		4	-	-	1	15	GFCI Service Outlets
Site Lighting	15	1	-	-	5		6	-	-	1	15	Crawlspace Lighting
Site Lighting	15	1	-	-	7		8	-	-	1	15	Second Floor Chair Lifts

CONNECTED LOAD: -
DEMAND LOAD: -

NOTE: PROVIDE DUPLEX GFCI OUTLET IN CRAWLSPACE ADJACENT TO ENTRY DOOR FOR SECURITY SYSTEM EQUIPMENT. REFER TO CRAWLSPACE PLANS.

NO.	DATE	REVISION	INT.



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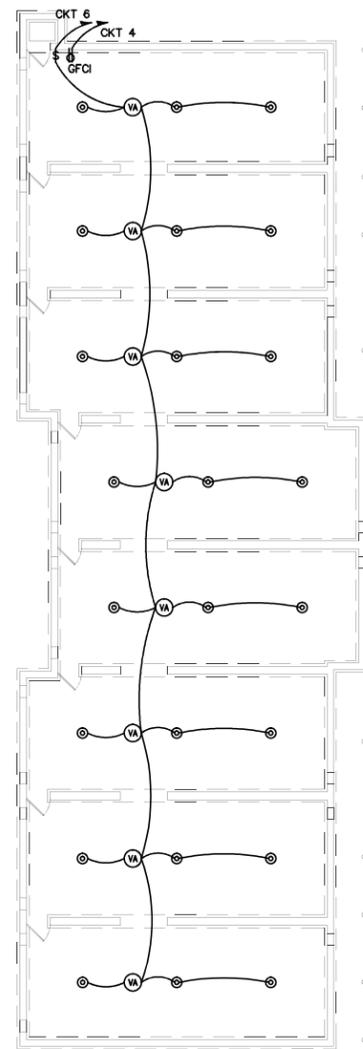
PROJECT ENGINEER: SM
DRAWN BY: DS
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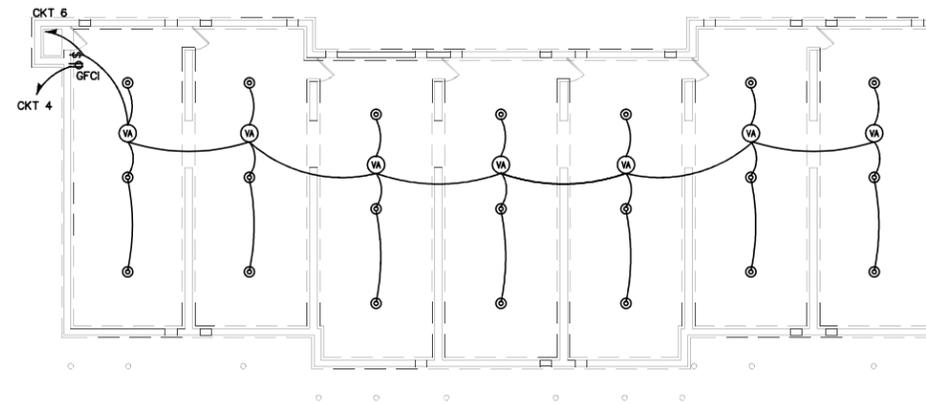
NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO. 5081
HOUSE POWER SITE PLAN SCHEDULES AND DETAILS

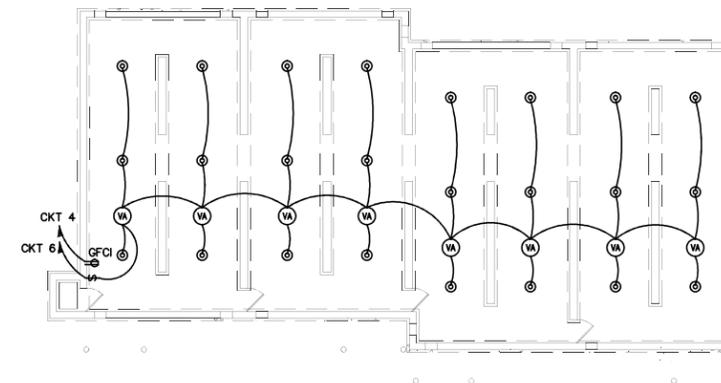
PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
E13



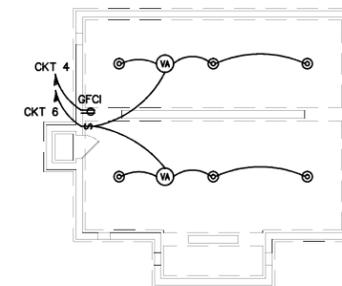
1 CRAWLSPACE LIGHTING AND POWER PLAN BUILDINGS 1 AND 4
 Scale: 3/32" = 1'-0"



1 CRAWLSPACE LIGHTING AND POWER PLAN BUILDINGS 2 AND 3
 Scale: 3/32" = 1'-0"



1 CRAWLSPACE LIGHTING AND POWER PLAN BUILDINGS 5 AND 6
 Scale: 3/32" = 1'-0"



1 CRAWLSPACE LIGHTING AND POWER PLAN BUILDING 7 - COMMUNITY BUILDING
 Scale: 3/32" = 1'-0"

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NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
POWER AND LIGHTING PLANS OF CRAWLSPACES

PROJECT NO. 5081	E14
DATE: 26 FEB 2018	
SCALE: AS NOTED	

ABBREVIATIONS

3PL	PARTY LOGISTICS
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
APPROX	APPROXIMATE
BLDG	BUILDING
CLG	CEILING
CONST	CONSTRUCTION
CW	DOMESTIC COLD WATER
CXA	COMMISSIONING AGENT
DEG	DEGREES
DTL	DETAIL
DN	DOWN
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
(E) OR (EX)	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FS	FLOOR SINK
FBI	FURNISH & INSTALL
FLR	FLOOR
FT	FOOT/FEET
FCO	FLOOR CLEANOUT
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
LV	LOW VOLTAGE
MAX	MAXIMUM
MECH	MECHANICAL
MC	MECHANICAL CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
NL	NIGHTLIGHT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
POC	POINT OF CONNECTION
PM	PROJECT MANAGER
REF	REFERENCE
REQ'D	REQUIRED
REV	REVISION
SHT	SHEET
SPECS	SPECIFICATION(S)
SF	SQUARE FEET
SST	STAINLESS STEEL
TEL	TELEPHONE
TEMP	TEMPORARY
TYP	TYPICAL
TMV	TEMPERATURE MIXING VALVE
TW	TEMPERED HOT WATER
UNO	UNLESS NOTED OTHERWISE
V	VENT
W	SANITARY WASTE
WH	WATER HEATER
WP	WEATHER PROOF
WCO	WALL CLEANOUT

PLUMBING SYMBOL LEGEND

	S OR W	SANITARY OR WASTE PIPING ABOVE SLAB
	S OR W	SANITARY OR WASTE PIPING BELOW SLAB
	V	VENT PIPING
	CD	CONDENSATE DRAIN
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	BV	BALL VALVE
	GV	GATE VALVE
	CH.V	CHECK VALVE
	RV	RELIEF VALVE
	HB	HOSE BIBB
		SHOCK ABSORBER
		STRAINER
	WCO	WALL CLEANOUT
	POC	CONNECT TO EXISTING

BUILDING DEPARTMENT NOTES

THE PLUMBING SYSTEMS (SANITARY, VENT, AND WATER DISTRIBUTION) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2015 INTERNATIONAL PLUMBING CODE, THIRD PRINTING AS ADOPTED AND ENFORCED BY THE STATE OF NEW YORK, CODE AND NASSAU COUNTY REQUIREMENTS.

- THE SANITARY SYSTEM SHALL BE IN FULL ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC 301.3.
- THE MATERIALS USED IN THE PLUMBING SYSTEM WILL BE PROVIDED IN FULL ACCORDANCE WITH SECTION PC 303.
- EQUIPMENT HOOK-UP AND THE JOINING OF PIPING WILL BE IN FULL COMPLIANCE WITH SECTION P605.0.
- THE INSTALLATION OF FIXTURES, FAUCETS AND FITTINGS WILL BE IN FULL ACCORDANCE WITH SECTION PC 401 AND PC 405.
- TRAPS FOR FIXTURES AND DRAIN LINES WILL BE PROVIDED AND INSTALLED IN FULL ACCORDANCE WITH SECTION PC 1002.
- VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND IN THE FULL COMPLIANCE WITH SECTION PC 306.
- THE WATER SUPPLY AND DISTRIBUTION SYSTEM OF THE SUBJECT BUILDING SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH SECTION PC 601.
- THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC 701.
- THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING WILL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC 901.
- RODENT PROOFING SHALL BE DONE IN ACCORDANCE WITH SECTION PC 304.
- TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMEN AS PER SECTION PC 311.
- HOT WATER SUPPLY SYSTEM SHALL BE IN FULL ACCORDANCE WITH SECTION PC 607.
- THE VENT SYSTEM SHALL BE IN FULL ACCORDANCE WITH SECTION PC 901.
- THE STORM SYSTEM SHALL BE IN FULL ACCORDANCE WITH SECTION PC1101.
- THE PLUMBING WORK SHALL INCLUDE ALL NECESSARY NOTICES, OBTAINING ALL PERMITS, AND PAYING ALL GOVERNMENT TAXES, FEES, AND PLANS, PREPARATION OF ALL DOCUMENTS AND OBTAINING ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION; OBTAINING ALL REQUIRED CERTIFICATES OF INSPECTION FOR THE WORK, AND DELIVERING SAME TO THE OWNER.
- CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, SHORT SWEEPS, SIXTH, EIGHT OR SIXTEENTH BENDS OR BY A COMBINATION OF THESE OR EQUIVALENT FITTINGS.
- SANITARY TEES AND QUARTER BENDS MAY BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.
- SHORT SWEEPS WILL BE PERMITTED IN DRAINAGE PIPING 3 INCH DIAMETER OR LARGER FOR ANY OFFSETS EITHER HORIZONTAL OR VERTICAL.
- ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306.
- ALL HANGERS AND SUPPORTS SHALL BE PER PLANS AND SPECIFICATIONS.
- FLOOR FLANGES FOR WATER CLOSETS SHALL BE CAST BRASS OR CAST IRON.
- CLEAN OUT PLUGS SHALL BE BRASS.
- VENT SIZES SHALL NOT BE LESS THAN THOSE PERMITTED BY TABLE RS 16-13 OF PC 906.1
- ALL WASTE & VENT PIPING SHALL BE CAST IRON (NO-HUB), GALVANIZED STEEL, COPPER OR PVC WITH DRAINAGE FITTINGS AS CODE

PRESSURE TESTING

LABOR, MATERIALS, INSTRUMENTS, AND POWER REQUIRED FOR TESTING SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE AND TO THE SATISFACTION OF THE PLUMBING INSPECTOR AND SUCH OTHER PARTIES AS MAY HAVE LEGAL JURISDICTION. NO PIPING IN ANY LOCATION SHALL BE CLOSED UP, FURRED IN, OR COVERED BEFORE TESTING. THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NAPHCC NATIONAL STANDARD PLUMBING CODE.

STORM AND SANITARY SYSTEM

BEFORE THE INSTALLATION OF FIXTURES, EQUIPMENT, TANKS AND INSULATION, THE ENTIRE STORM AND SANITARY DRAINAGE PIPING SYSTEMS INCLUDING ALL VENTS SHALL HAVE ALL NECESSARY OPENINGS PLUGGED TO PERMIT THE ENTIRE SYSTEM TO BE FILLED WITH WATER TO THE LEVEL OF THE HIGHEST VENT STACK OF EACH SYSTEM ABOVE THE ROOF WHERE PRACTICAL. THE SYSTEMS SHALL HOLD THIS WATER FOR FOUR HOURS WITHOUT A DROP IN WATER LEVEL. WHERE A PORTION OF THE SYSTEMS IS TO BE TESTED, THE TEST SHALL BE CONDUCTED IN THE SAME MANNER AS DESCRIBED FOR THE ENTIRE SYSTEM. EXCEPT THAT A VERTICAL STACK 10 FOOT ABOVE THE HIGHEST HORIZONTAL LINE TO BE TESTED MAY BE INSTALLED AND FILLED WITH WATER TO SUPPLY THE REQUIRED PRESSURE. THE PRESSURE SHALL BE MAINTAINED FOR A MINIMUM OF FOUR (4) HOURS.

COLD WATER AND HOT WATER SYSTEMS

UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES AND FINAL CONNECTIONS TO ALL EQUIPMENT, ALL WATER PIPING SYSTEMS SHALL BE TESTED NOT LESS THAN THE HYDROSTATIC PRESSURES SPECIFIED HEREIN AND PROVED TIGHT AT THESE PRESSURES FOR NOT LESS THAN FOUR HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS, WHERE A PORTION OF THE WATER PIPING SYSTEMS IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

SYSTEMS OPERATING ON CITY PRESSURE SHALL BE TESTED TO A PRESSURE OF 150 PSI GAUGE BUT NOT LESS THAN 1.5 TIMES THE WORKING PRESSURE.

ALL BOOSTED WATER PIPING SYSTEMS SHALL BE TESTED TO A PRESSURE OF 250 PSI GAUGE BUT NOT LESS THAN 1.5 TIMES THE WORKING PRESSURE.

PERFORMANCE TEST REPORTS

UPON COMPLETION AND TESTING OF THE INSTALLED SYSTEM, TEST REPORTS SHALL BE SUBMITTED SHOWING ALL FIELD TESTS PERFORMED TO PROVE COMPLIANCE WITH THE SPECIFIED PERFORMANCE CRITERIA.

DISCLAIMER NOTES

THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHER TRADESMEN. ALL DRAWINGS RELATED TO THE CONSTRUCTION OF THIS PROJECT, AS ENUMERATED ON SHEET T-101, ARE HEREIN REFERENCED FOR COORDINATION PURPOSES. ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE COMPLETE SET OF DOCUMENTS AND SPECIFICATIONS FOR THIS PURPOSE. NO CHANGE ORDERS OR ADDITIONS TO THE CONTRACT SUM SHALL BE ENTERTAINED FOR LACK OF COORDINATION BETWEEN TRADES

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NY STATE.

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SM	SM



NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
PLUMBING NOTES AND LEGEND

PROJECT NO.	5081	P01
DATE:	26 FEB 2018	
SCALE:	NTS	

1.0 GENERAL CONDITIONS

- A. ALL WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION OR INSTRUCTIONS TO BIDDERS, GENERAL REQUIREMENTS, AND THE SUPPLEMENTARY GENERAL CONDITIONS OF THESE SPECIFICATIONS, ANY SUPPLEMENTARY CONDITIONS, SPECIAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE ARCHITECT, HERewith, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.
- B. CONTRACTORS SHALL DETERMINE THE CONTENTS OF A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS AND BE AWARE THAT THEY MAY BE BIDDING FROM A PARTIAL SET OF DRAWINGS, APPLICABLE ONLY TO THE VARIOUS SEPARATE CONTRACTS, OR TRADES AS MAY BE ISSUED FOR BIDDING PURPOSES ONLY. THE CONTRACT DOCUMENTS ARE THE COMBINED ARCHITECTURAL, STRUCTURAL, PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. ALL DRAWINGS AND SPECIFICATIONS ARE ON FILE IN THE ARCHITECT'S OFFICE AND EACH BIDDER SHALL THOROUGHLY ACQUAINT HIMSELF WITH ALL OF THE DETAILS OF THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ALL DRAWINGS AND SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS FOR EACH SEPARATE CONTRACT AND SHALL BE CONSIDERED AS BOUND THEREWITH IN THE EVENT PARTIAL SETS OF PLANS AND SPECIFICATIONS ARE ISSUED FOR BIDDING ONLY. THE SUBMISSION OF BIDS SHALL BE DEEMED EVIDENCE OF THE REVIEW AND EXAMINATION OF ALL DRAWINGS, SPECIFICATIONS AND ADDENDA ISSUED FOR THE PROJECT AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE SUB-CONTRACTOR'S UNFAMILIARITY WITH ANY PORTION OF THE COMPLETE SET OF DOCUMENTS
- C. ALL EQUIPMENT, MATERIAL AND SUPPLIES SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA

2.0 SCOPE

- A. THE WORK INCLUDED UNDER THIS SPECIFICATION CONSISTS OF THE FURNISHINGS OF ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SERVICES, ETC. WHICH ARE APPLICABLE AND NECESSARY TO COMPLETE THE INSTALLATION OF THE SYSTEMS SPECIFIED IN THE MECHANICAL SPECIFICATIONS, ALL AS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED ON THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT.
- B. IN GENERAL, THE VARIOUS PIPES, ETC. TO BE INSTALLED BY THE VARIES TRADES UNDER THIS SPECIFICATION SHALL BE RUN AS INDICATED, AS SPECIFIED HEREIN, AS REQUIRED BY PARTICULAR CONDITIONS AT THE SITE, AND AS REQUIRED TO CONFORM TO THE GENERALLY ACCEPTED STANDARDS SO AS TO COMPLETE THE WORK IN A NEAT AND SATISFACTORY MANNER. RUN WORK PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING UNLESS OTHERWISE NOTED.
- C. THE CONSTRUCTION DETAILS OF THE BUILDING ARE ILLUSTRATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE DETAILS BEFORE SUBMITTING HIS BID AS NO ALLOWANCE WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. PLACE ALL INSERTS TO ACCOMMODATE THE ULTIMATE INSTALLATION OF THE PIPE HANGERS IN THE FORMS BEFORE CONCRETE IS POURED, AND IN MASONRY WALLS BE INSTALLED AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION TO PRECEED THAT GENERAL CONSTRUCTION.

- 3.0 INSPECTION OF SITE
 - A. THE CONTRACTOR SHALL VISIT THE SITE, VERIFY ALL EXISTING ITEMS SHOWN ON PLANS OR SPECIFIED, AND FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS, HAZARDS, EXISTING GRADES, ACTUAL FORMATIONS, SOIL CONDITIONS, AND LOCAL REQUIREMENTS INVOLVED, AND SUBMISSION OF BIDS SHALL BE DEEMED EVIDENCE OF SUCH VISITS, ALL PROPOSALS SHALL TAKE THESE EXISTING CONDITIONS INTO CONSIDERATION AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE SUBCONTRACTOR OF ANY RESPONSIBILITY.

4.0 UTILITIES, LOCATIONS AND ELEVATIONS

- A. LOCATIONS AND ELEVATIONS OF THE VARIOUS UTILITIES INCLUDED WITHIN THE SCOPE OF THIS WORK HAVE BEEN OBTAINED FROM CITY AND/OR OTHER SUBSTANTIALLY RELIABLE SOURCES AND ARE OFFERED SEPARATELY FROM THE CONTRACT DOCUMENTS, AS A GENERAL GUIDE ONLY, WITHOUT GUARANTEE AS TO ACCURACY. THIS CONTRACTOR SHALL EXAMINE THE SITE, SHALL VERIFY TO HIS OWN SATISFACTION THE LOCATIONS, ELEVATIONS, AND AVAILABILITY OF ALL UTILITIES AND SERVICES REQUIRED, AND ADEQUATELY INFORM HIMSELF AS TO THEIR RELATION TO THE WORK; THE SUBMISSION OF BIDS SHALL BE DEEMED EVIDENCE THEREOF.

5.0 CODE REQUIREMENTS

- A. ALL WORK SHALL COMPLY WITH THE PROVISIONS OF THESE SPECIFICATIONS, AS ILLUSTRATED ON THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT, AND SHALL SATISFY ALL APPLICABLE LOCAL CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, AND ALL AUTHORITIES HAVING JURISDICTION OF THE GOVERNING BODIES, AND ALL AUTHORITIES HAVE JURISDICTION OVER THE WORK, OR SERVICES THERETO. IN ALL CASES WHERE ALTERATIONS TO, OR DEVIATIONS FROM, THE DRAWINGS AND SPECIFICATIONS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE CONTRACTOR SHALL REPORT THE SAME IN WRITING TO THE ARCHITECT AND SECURE HIS APPROVAL BEFORE PROCEEDING. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL PROVIDE COMPLETE UTILITY SERVICE CONNECTIONS, AS DIRECTED AND SUBMIT, AS REQUIRED ALL NECESSARY DRAWINGS; HE SHALL SECURE AL PERMITS AND INSPECTIONS NECESSARY IN CONNECTION WITH HIS WORK AND PAY ALL LEGAL FEES ON ACCOUNT THEREOF. IN THE ABSENCE OF OTHER APPLICABLE LOCAL CODES, ACCEPTABLE TO THE ARCHITECT, THE NATIONAL ELECTRICAL CODE AND 2015 INTERNATIONAL PLUMBING CODE AS ADOPTED BY NEW YORK STATE SHALL APPLY TO THIS WORK.

6.0 SCHEDULE OF MATERIAL AND EQUIPMENT

- A. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT IN A BOUND BOOK WHICH IS TO BE INSTALLED UNDER THIS CONTRACT. THE SCHEDULE SHALL BE SUBMITTED WITHIN 30 DAYS AFTER THE AWARD OF THIS CONTRACT AND PRIOR TO THE INSTALLATION OR FABRICATION ON ANY OF THE MATERIALS THE MANUFACTURER'S NAME, CATALOG NUMBER, TYPE AND TRADE NAME. IN ADDITION, FOR EQUIPMENT ATTACH MANUFACTURER'S ENGINEERING DATA AND SPECIFICATION SHEET, INDIVIDUAL SUBMITTALS SHALL BE RETURNED UNCHECKED

7.0 SHOP DRAWINGS

- A. ONE (1) REPRODUCIBLE (DIGITAL) AND THREE (3) PRINT COPIES OF PIPING LAYOUTS AND CERTIFIED EQUIPMENT MANUFACTURER'S DATA SHALL BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO FABRICATION, ERECTION OR PURCHASE.

8.0 DRAWINGS AND SPECIFICATIONS

- A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEM SHALL INCLUDE BUT ARE NOT LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDINGS AND IN COOPERATION WITH OTHER SUB-CONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE ARCHITECT RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.
- B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON THE CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- C. EXCEPTIONS AND INCONSISTENCIES IN PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE BIDS ARE SUBMITTED; OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY AND ALL CHANGES AND ADDITIONS THAT MAY BE NECESSARY TO ACCOMMODATE HIS PARTICULAR APPARATUS.
- D. THE CONTRACTOR SHALL LAY OUT THIS WORK MAINTAINING ALL LINES, TRADES AND DIMENSIONS ACCORDING TO THESE DRAWINGS WITH DUE CONSIDERATION FOR OTHER TRADES AND VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO ANY FABRICATION OR INSTALLATION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE ANY INSTALLATION OR FABRICATION AND THE EXISTING CONDITIONS SHALL BE INVESTIGATION AND PROPER CHANGED EFFECTED WITHOUT ANY ADDITIONAL COST.
- E. TITLES OF SECTION AND PARAGRAPH IN THESE SPECIFICATIONS ARE INTRODUCED MERELY FOR CONVENIENCE AND ARE NOT TO BE CONSTRUCTED AS A CORRECT OR COMPLETE SEGREGATION TO TABULATION OF THE VARIOUS MATERIAL AND OR WORK. THE ARCHITECT DOES NOT ASSUME ANY RESPONSIBILITY EITHER DIRECT OR IMPLIED, FOR OMISSIONS OR DUPLICATIONS BY THE CONTRACTOR OR ANY SUB-CONTRACTOR, DUE TO REAL OR ALLEGED ERROR IN THE ARRANGEMENT OF MATTER IN THE CONTRACT DOCUMENTS.

9.0 ARCHITECT'S APPROVAL

- A. IN ANY STATEMENT UNDER THIS CONTRACT WHERE "APPROVAL" IS REQUIRED OR REQUESTED, IT IS UNDERSTOOD THAT SUCH APPROVAL MUST BE OBTAINED FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THE PROPOSAL, AND AN ADEQUATE NUMBER OF COPIES OF ANY SUCH PROPOSAL SHALL BE SUBMITTED TO THE ARCHITECT
- B. THE APPROVAL BY THE ARCHITECT OF ANY MATERIALS, CHANGES, DRAWINGS, ETC., SUBMITTED BY THE CONTRACTOR WILL BE CONSIDERED AS GIVEN USE ONLY AND TO AD THE CONTRACTOR IN EXPEDITING HIS WORK. SUCH APPROVAL AS MAY BE GIVEN DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM THE NECESSITY OF FURNISHING THE MATERIALS AND PERFORMING ALL WORK AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.
- 10.0 RECORDS FOR THE OWNER
 - A. EACH CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE A COMPLETE SET OF PRINTS ON WHICH HE SHALL KEEP AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY HIS CONTRACTUAL AGREEMENT. THE RECORD SHALL INDICATE THE LOCATION OF ALL EQUIPMENT AND THE ROUTING OF ALL SYSTEMS. ALL PIPES BURIED IN CONCRETE SLABS, WALLS, AND BELOW GRADE SHALL BE LOCATED BY DIMENSION UNLESS A SURFACE MOUNTED DEVICE IN EACH SPACE INDICATES THE EXACT LOCATION. HE SHALL THEN OBTAIN OR PREPARE AT HIS EXPENSE ONE COMPLETE DIGITAL SET OF THE ORIGINAL DRAWINGS INTO WHICH HE SHALL TRANSFER HIS NOTATIONS AND DELIVER THESE "AS-BUILT" DRAWINGS TO THE ARCHITECT AT JOB COMPLETION BEFORE FINAL PAYMENT FOR DELIVERY TO THE OWNER.
- 11.0 MATERIALS AND WORKMANSHIP
 - A. ALL MATERIALS UNLESS OTHERWISE SPECIFIED SHALL BE NEW, FREE FROM DEFECTS, AND OF THE BEST QUALITY OF THEIR RESPECTIVE KINDS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURER, MODEL, AND QUALITY UNLESS OTHERWISE SPECIFIED.
 - B. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, ADJUSTED, AND CONDITIONED AS RECOMMENDED BY THE MANUFACTURER, OR AS INDICATED IN THEIR PUBLISHED LITERATURE, UNLESS SPECIFICALLY HEREIN SPECIFIED TO THE CONTRARY. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER PROVIDING A THOROUGH AND COMPLETE INSTALLATION. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. AT COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL TOOLS, EQUIPMENT, OBSTRUCTIONS, OR DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES.

- 12.0 STORAGE AND PROTECTION
 - A. PROVIDE ADEQUATE FACILITIES FOR ITEMS FURNISHED UNDER THESE SPECIFICATIONS WHICH ARE SUBJECT TO DAMAGE OR EXPOSED TO ELEMENTS. TAKE SUCH PRECAUTIONS AS NECESSARY TO PROPERLY PROTECT APPARATUS FROM DAMAGE. FAILURE TO COMPLY WITH THIS PROVISION WILL BE SUFFICIENT CAUSE FOR REJECTION OF THE APPARATUS.
- 13.0 COOPERATION
 - A. ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER TRADES ON THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS WORK.
 - B. MAINTAINING CONTACT AND BEING FAMILIAR WITH THE PROGRESS OF GENERAL CONSTRUCTION AND THE TIMELY INSTALLATION OF SLEEVES AND INSERTS, ETC., BEFORE CONCRETE IS PLACED SHALL BE THE RESPONSIBILITY OF THIS TRADE AS WILL THE INSTALLATION OF THE REQUIRED SYSTEMS IN THEIR SEVERAL STAGES, AT THE PROPER TIME TO EXPEDITE THIS CONTRACT AND AVOID UNNECESSARY DELAYS IN THE PROGRESS OF OTHER CONTRACTS, AND MEET ALL REQUIREMENTS OF PROGRESS SCHEDULES SET UP BY THE ARCHITECT.
 - C. SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE, REFERENCE SHALL BE MADE TO THE ARCHITECT FOR INSTRUCTION.

- 14.0 SLEEVES AND ESCUTCHEONS
 - A. GENERALLY WHERE PIPES PASS THROUGH WALLS OR FLOORS, 22 GAUGE GALVANIZED SHEET SLEEVES SHALL BE USED, EXCEPT THOSE IN BEAMS, OUTSIDE WALLS, STRUCTURAL MEMBERS OR IN CONCRETE SLABS IN MECHANICAL EQUIPMENT ROOMS, WHICH SHALL BE STANDARD GALVANIZED STEEL PIPE. THE SIZE OF THESE SLEEVES SHALL BE SUCH AS TO PERMIT READILY THE SUBSEQUENT INSERTION OF PIPE OF THE PROPER SIZE WITH ADEQUATE CLEARANCE FOR MOVEMENT DUE TO EXPANSION AND CONTRACTION. IN THE CASE OF INSULATED LINES THE DIAMETER OF THE SLEEVES SHALL BE AT LEAST 1/2" GREATER THAN THE OUTSIDE DIAMETER OF INSULATION. WHERE PIPES PASS THROUGH OUTSIDE WALLS, THE INSIDE DIAMETER OF THE GALVANIZED IRON PIPE SLEEVES SHALL BE AT LEAST 1/2" GREATER THAN THE OUTSIDE DIAMETER OF THE SERVICE PIPE. AFTER THE PIPE AND ITS SLEEVE WITH A MASTIC OR CAULK WITH LEAD. USE PACKING AS REQUIRED TO ACCOMPLISH THIS.
 - B. ESCUTCHEONS EXCEPT AS SPECIFICALLY NOTED OR SPECIFIED SHALL BE INSTALLED ON ALL PIPES PASSING EXPOSED THROUGH THE FLOORS, WALLS, OR CEILINGS. ESCUTCHEONS SHALL BE EQUAL TO THE CRANE NO. 10, CHROME PLATED SECTIONAL FLOOR AND CEILING PLATES AND SHALL FIT SNUGLY AND NEATLY AROUND PIPE OR PIPE INSULATION OR INSULATED LINES. SOLID CHROME PLATES WITH SET SCREWS SHALL BE USED IF SECTIONAL PLATES DO NOT FIT PROPERLY OR STAY IN PLACE.

- 15.0 DIELECTRIC ISOLATION
 - A. WHEREVER COPPER, BRASS OR BRONZE PIPING SYSTEMS ARE CONNECTED TO STEEL OR IRON PIPING SYSTEMS, THE CONNECTION SHALL BE MADE WITH DIELECTRIC ISOLATORS. THE DIELECTRIC ISOLATORS SHALL BE SO DESIGNED THAT NONFERROUS PIPING MATERIALS SHALL BE ISOLATED BY THE USE OF TEFLON OR NYLON INSULATING MATERIALS MADE UP IN THE FORM OF SCREWED TYPE UNIONS OR INSULATING GASKETS AND BOLT SLEEVES AND WASHERS FOR STANDARD FLANGED CONNECTIONS. ALL DIELECTRIC ISOLATORS SHALL BE SELECTED FOR PRESSURES OF THE SYSTEMS INVOLVED. DIELECTRIC ISOLATORS SHALL BE EPCO, CRANE OR MALONEY.

16.0 FLAME SPREAD PROPERTIES OF MATERIALS

- A. ALL MATERIALS AND ADHESIVES USED FOR ACUSTICAL LININGS AND INSULATION, JACKETS, TAPES, ETC. SHALL CONFORM TO INTERIM FEDERAL STANDARD FLAME SPREAD PROPERTIES OF MATERIALS, INC. FED. STD. NO. 00336A (COMM. NES). THE CLASSIFICATION SHALL NOT EXCEED NO. 2, WITH THE RANGES OF INDICES BETWEEN 0 AND 25 FOR THESE CLASSIFICATIONS AS LISTED IN THE FEDERAL SPECIFICATIONS FOR THE BASIC MATERIALS, THE FINISHES, ADHESIVES, ETC. SPECIFIED FOR EACH SYSTEM, AND SHALL BE SUCH THAT WHEN COMPLETELY ASSEMBLED THE TOTAL WILL NOT EXCEED AN INDEX OF 50 IN CLASSIFICATION 111 AS LISTED IN THE FEDERAL SPECIFICATIONS. MODIFICATIONS SHALL BE MADE TO INSULATING MATERIALS, ETC. AS REQUIRED TO COMPLY WITH THE FEDERAL SPECIFICATIONS.

17.0 ELECTRIC WIRING

- A. EXCEPT FOR SUCH ITEMS AS ARE NORMALLY WIRED UP AT THEIR POINT OF MANUFACTURE AND SO DELIVERED, AND UNLESS SPECIFICALLY NOTED TO THE CONTRARY HEREIN, THE ELECTRICAL CONTRACTOR WILL DO ALL ELECTRIC WIRING OF EVERY CHARACTER BOTH FOR POWER SUPPLY AND FOR ALL PILOT AND CONTROL WIRING, INCLUDING THE CONTROLS, STARTERS, ETC. THIS CONTRACTOR SHALL ERECT ALL MOTORS IN PLACE READY FOR CONNECTIONS AND SHALL FURNISH WITH EACH SUCH MOTOR A STARTER OF THE TYPE SPECIFIED DELIVER IT IN GOOD CONDITION TO THE ELECTRICAL CONTRACTOR AT THE JOB. THE ELECTRICAL CONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED, FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY.

18.0 CROSS CONNECTION AND INTERCONNECTIONS

- A. NO PLUMBING FIXTURE, DEVICE, OR PIPING SHALL BE INSTALLED WHICH WILL PROVIDE A CROSS CONNECTION OR INTERCONNECTION BETWEEN A DISTRIBUTING SUPPLY FOR DRINKING OR DOMESTIC PURPOSES AND A POLLUTED SUPPLY SUCH AS DRAINAGE SYSTEM OR A SOIL OR WASTE PIPE WHICH PERMIT OR MAKE POSSIBLE THE BACKFLOW OF SEWAGE, POLLUTED WATER, OR WASTE INTO THE WATER SUPPLY SYSTEM.

19.0 RESPONSIBILITY

- A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEMS IS PARTICULARLY SPECIFIED OR INDICATED.

20.0 CLEAN UP

- A. CLEAN UP TRASH AND DEBRIS CAUSED BY THE WORK OF THIS SECTION, KEEPING PREMISES, STREETS, SIDEWALKS AND ADJACENT AREAS CLEAN AND NEAT AT ALL TIMES.

- B. DISPOSE OF SUCH MATERIALS OUTSIDE THE LIMITS OF THE PROJECT SITE AT APPROVED LOCATIONS.

21.0 EXCAVATION AND BACKFILLING

- A. PROVIDE NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. TRENCHES FOR UNDERGROUND PIPING AND CONDUIT SHALL BE EXCAVATED TO REQUIRED DEPTH WITH BELL HOLES PROVIDED AS NECESSARY TO INSURE UNIFORM BEARING. CARE SHOULD BE TAKEN NOT TO EXCAVATE BELOW DEPTH, AND ANY EXCAVATION BELOW DEPTH SHALL BE REFILLED WITH SAND OR GRAVEL FIRMLY COMPACTED. WHERE ROCK OR HARD OBJECTS ARE ENCOUNTERED, THEY SHALL BE EXCAVATED TO A GRADE SIX INCHES (6") BELOW THE LOWERMOST PART OF THE PIPE AND REFILLED TO THE PIPE GRADE AS SPECIFIED. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED IN GRADE WITH APPROVED MATERIAL, WELL TAMPED OR Puddled COMPACTLY IN PLACE. DO NOT PROCEED WITH BACKFILL OPERATIONS UNTIL PIPING HAS BEEN INSPECTED BY THE ARCHITECT AND OWNER. ALL TRENCHES SHALL BE SLORED IN ACCORDANCE WITH LOCAL AND OSHA REQUIREMENTS. THE CONTRACTOR SHALL PREPARE ENGINEERED TRENCH DRAWINGS AS REQUIRED BY OSHA.

22.0 ACCESS DOORS

- A. ACCESS DOORS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR. THIS SUB-CONTRACTOR WILL CLOSELY COORDINATE LOCATIONS OF VALVES, ETC. IN ORDER TO HAVE ACCESS TO ALL CONCEALED PORTIONS OF THE SYSTEM REQUIRING PERIODIC SERVICE. PREPARE SHOP DRAWINGS FOR COORDINATION OF ALL ACCESS DOORS, LOCATING SAME FOR INSTALLATION BY GENERAL CONTRACTOR.

23.0 GUARANTEE

- A. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE IN TRIPLICATE, WARRANTING ALL MATERIALS, EQUIPMENT AND LABOR FURNISHED BY HIM TO BE FREE OF ALL DEFECTS, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. HE SHALL FURTHER GUARANTEE THAT ALL EQUIPMENT SHALL MEET THE CHARACTERISTICS, CAPACITIES, AND WORKMANSHIP SPECIFIED AND SHOULD ANY DEFECTS OR EQUIPMENT BE INDICATED WITHIN THE WARRANTY PERIOD, THE DEFECTS AND/OR EQUIPMENT WILL BE REPAIRED OR MADE GOOD WITHOUT COST TO THE OWNER.

24.0 VALVES

- A. FURNISH AND INSTALL ALL VALVES INDICATED ON THE PLANS SPECIFIED HEREIN, OR REQUIRED TO CONTROL THE FLOW OF WATER, CONDENSATE, ETC. TO AND FROM VARIOUS PARTS OF THE SYSTEMS, IN AND OUT OF VARIOUS PIECES OF MACHINERY, AND EQUIPMENT, TO SEGREGATE VARIOUS PARTS OF INDIVIDUAL SYSTEMS, ETC.
- B. GENERALLY, VALVES SHALL BE OF THE TYPES AND PATTERN CORRESPONDING TO THE FOLLOWING LISTINGS, BUT WHERE NECESSITATED BY PARTICULAR CONDITIONS OR CLASSES OF WORK, SPECIAL VALVES SHALL BE EMPLOYED.
- C. VALVES SHALL BE ONE OF THE FOLLOWING TYPES AND APPROVED MANUFACTURERS.

VALVE TYPE	SIZE	END CONNECTION	KITZ NUMBER	NIBCO NUMBER	HAMMOND NUMBER
GATE	2" & SMALLER	THREADED	40	T-113	IB-645
GATE	2" & SMALLER	SOLDER	41	S-113	IB-647
GLOBE	2" & SMALLER	THREADED	9	T-235-Y	IB-413
GLOBE	2" & SMALLER	SOLDER	11	S-211-Y	X
ANGLE	2" & SMALLER	THREADED	38	T-311-Y	X
ANGLE	2" & SMALLER	SOLDER	X	S-311-Y	X
CHECK	2" & SMALLER	THREADED	22	T-413-B	IR-940
CHECK	2" & SMALLER	SOLDER	237	S-413-Y	IB-941

VALVE TYPE	SIZE	END CONNECTION	KITZ NUMBER	NIBCO NUMBER	HAMMOND NUMBER
BALL	1" & SMALLER	SOLDER	68 SERIES	70 SERIES	S-585-70
BALL	1 1/4" & LGR	SOLDER	62 SERIES	82 SERIES	S-595Y

- D. WHERE COCKS ARE REQUIRED, THEY SHALL GENERALLY BE OF THE SAME OR COMPATIBLE MATERIAL AS THE PIPING AND SUITABLE FOR THE SYSTEM. PROVIDE AND INSTALL ALL SPECIAL COCKS REQUIRED SUCH AS PET COCKS, GAUGE COCKS, ETC.
- E. WHERE VALVES OR COCKS ARE INSTALLED IN CHROME PLATED LINES, THEY SHALL BE CHROME PLATED TO MATCH.
- F. CONNECTIONS BETWEEN SCREW JUNT VALVES AND COPPER LINES SHALL BE MADE USING COPPER I.P.S. SCREWED OR COPPER TO I.P.S. FLANGED CONNECTORS.
- G. SPECIAL TYPES OF VALVES SHALL BE EMPLOYED IN ANY AND ALL LINES WHERE SPECIFIED ELSEWHERE OR REQUIRED BY CONDITIONS EXISTING AT THE JOB SITE. PRIOR APPROVAL SHALL BE OBTAINED FOR ALL SUCH VALVES.

25.0 UNIONS

- A. PROVIDE AND INSTALL UNIONS BETWEEN EACH ITEM OF EQUIPMENT AND THE VALVE CONTROLLING AND/OR THE VARIOUS PIPING CONNECTIONS TO IT. UNIONS SHALL BE AS MANUFACTURED BY CRANE, MUELLER, GRINNELL OR WALWORTH AND SHALL BE AS FOLLOWS: STEEL PIPE: UNIONS 2" AND SMALLER, MALLEABLE IRON WITH BRASS SEAT AND GROUND JOINTS. COPPER PIPE: UNION 2" AND SMALLER, BRASS GROUND JOINTS, COPPER TO COPPER.

26.0 VALVE INSTALLATION

- A. PROVIDE AND INSTALL ALL VALVES THAT ARE SHOWN ON THE DRAWINGS, SPECIFIED OR THAT MAY BE NECESSARY TO INSTALL COMPLETE, CONTROLLED AND PROPERLY OPERATING SYSTEMS AS REQUIRED BY CODE, AND AS APPROVED BY THE ARCHITECT.
- B. EACH HOT AND COLD WATER RETURN BRANCH LINE OR RISER SERVING TWO OR MORE FIXTURES SHALL BE SEPARATELY VALVED WHERE IT IS CONNECTED TO ITS RESPECTIVE MAIN. THE BRANCH LINES TO BATTERIES OF FIXTURES OR FIXTURE GROUPS SHALL BE INDIVIDUALLY VALVED. THE WATER SUPPLIES TO WHICH HOT AND/PR CP,D WATER IS CONNECTED, WHETHER INSTALLED BY THIS CONTRACTOR OR OTHERS, SHALL BE PROVIDED WITH A VALVE AND UNION TO FACILITATE ITS REMOVAL WITHOUT INTERRUPTING ANY OTHER SUPPLIES OR SERVICES
- C. VALVES SHALL BE LOCATED IN ACCESSIBLE POSITIONS OR MADE ACCESSIBLE THROUGH REMOVABLE PANELS, ETC., AND WHERE SEVERAL VALVES ARE RELATED AS TO FUNCTION, THEY SHALL BE GROUPED IN A PATTERN. THE CONTRACTOR SHALL ARRANGE FOR PROPER LOCATION OF ALL ACCESS PANELS REQUIRED SUBJECT TO APPROVAL OF THE ARCHITECT. PARTICULAR CARE SHALL BE EXERCISED TO AVOID LEAVING TOOL MARKS AND SCRATCHES WHERE CONNECTIONS ARE EXPOSED IN TOILET ROOM, MACHINE ROOM, AND OTHER CONSPICUOUS PLACES.
- D. PROVIDE AND INSTALL STOP VALVES OF THE INDICATED OR REQUIRED TYPE IN ALL PIPING SYSTEMS WHERE SHOWN OR REQUIRED; AT MAINS, AT OUTLETS, AND ITEMS OF EQUIPMENT, AT THE INLET AND OUTLET OF EACH PUMP, AND OTHER APPURTENANCES; IN BY-PASSES; IN SPECIAL SERVICE LINES SUCH AS DRAIN LINE, MAKE-UP WATERLINES AND FILL LINES; AND AT ALL OTHER PLACES DESIGNATED TO ON THE PLANS AND/OR REQUIRED TO CONTROL FLOW OF WATER OR TO VARIOUS SECTIONS OF THE BUILDINGS AND TO VARIOUS GROUPS OF FIXTURES; ITEMS OF EQUIPMENT, ETC. THE SUPPLY OF WATER TO EVERY PLUMBING FIXTURE SPECIFIED TO BE INSTALLED UNDER THIS CONTRACT OR PROVIDED AND INSTALLED BY OTHERS AS PART OF THE EQUIPMENT BY "OWNER" OR "OTHERS" SHALL BE PROVIDED WITH POSITIVE SHUT-OFF AND STOP VALVES.

27.0 INDIRECT WASTE PIPING

- A. THIS SYSTEM SHALL CONSIST OF ALL PIPING FROM THE SOURCE TO A FLOOR DRAIN OR OTHER POINT OF DISPOSAL IN THE BUILDING PLUMBING SYSTEM. FINAL CONNECTIONS TO THE PLUMBING SYSTEM SHALL BE THROUGH OPEN SIGHT, OR INDIRECT TRAPPED CONNECTION. ALL DRAIN LINES SHALL BE TYPE "M" COPPER WATERBUBE UNLESS OTHERWISE SPECIFIED. ALL HORIZONTAL DRAINS SHALL PITCH 1/8" PER FOOT AND SHALL BE PROVIDED WITH PLUGGED TEE CLEANOUTS, UNLESS OTHERWISE ACCESSIBLE FOR CLEANING. FITTINGS SHALL BE DRAINAGE PATTERN.

28.0 EQUIPMENT CONNECTIONS

- A. EXTEND DOMESTIC WATER TO THE VARIOUS ITEMS OF EQUIPMENT AS INDICATED OR REQUIRED, TERMINATING THE LINES WHERE AND AS DIRECTED. MAKE ALL FINAL PLUMBING CONNECTIONS. PROVIDE SHUT-OFF VALVES AND UNIONS AT EACH WATER CONNECTION TO EACH ITEM OF EQUIPMENT REQUIRING SAME. FURNISH ALL P-TRAPS FOR WASTE CONNECTIONS TO THIS EQUIPMENT.

29.0 TESTING AND ADJUSTING

- A. AFTER ALL VERTICAL SOIL, WASTE AND VENT, DRAIN AND DOWNSPOUT LINES HAVE BEEN SET, ALL THE OUTLETS SHALL BE TEMPORARILY PLUGGED UP, THE PIPES SHALL THEN BE FILLED WITH WATER, FULL TO THE TOP, AND ALLOWED TO REMAIN SO FOR 24 HOURS AND PROVED WATERTIGHT.
- B. A FINAL TEST SHALL BE MADE AFTER ALL VERTICAL AND HORIZONTAL SOIL, WASTE AND VENT PIPES HAVE BEEN INSTALLED AND ALL FIXTURES ROUGHED-IN, AND BEFORE THE SEWER CONNECTION IS MADE. IN THIS CASE, AS BEFORE, ALL PIPES SHALL BE FILLED TO THE TOP OF THE VERTICAL LINES AND ALLOWED TO REMAIN SO FOR 24 HOURS AND PROVED WATERTIGHT.
- C. ALL THE ABOVE PIPES IN ADDITION TO THE WATER TESTS, SHALL BE TESTED BY THE PEPPERMINT OR SMOKE TEST, IF THE ARCHITECT OR INSPECTING AUTHORITIES SO REQUIRE. ALL COLD, HOT AND FIRE PROTECTION WATER LINES SHALL BE TESTED AT 150 LBS. HYDROSTATIC PRESSURE AND PROVED TIGHT. TESTS AND WATER LINES SHALL BE MADE BEFORE COVERING OR INSULATION IS APPLIED.
- D. ALL THE PIPING TESTED ABOVE SHALL BE PROVED TIGHT BY THE TESTS. SHOULD ANY LEAKS OCCUR, THEY SHALL BE STOPPED IN AN APPROVED MANNER AND THE LINES RE-TESTED UNTIL THEY PROVE TIGHT AND ARE ACCEPTABLE.
- E. IN THE CASE OF ANY DEFECT, THEY SHALL BE MADE GOOD TO THE SATISFACTION OF THE ARCHITECT AND THE WORK RETESTED WITHOUT DELAY. ALL SUCH WORK SHALL BE DONE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE.
- F. THE CONTRACTOR SHALL ADJUST ALL STOPS, FLOW CONTROL FITTINGS, REGULATORS, ETC. AND PUT THE ENTIRE PLUMBING INSTALLATION IN COMPLETE AND SATISFACTORY WORKING ORDER. ALL REPAIRS TO PIPING SHALL BE MADE BY REPLACING THE VALVES, FITTINGS AND/OR PIPE PROVING TO BE DEFECTIVE. SCRATCHES, WRENCH MARKS, ETC. ON CHROME PLATED LINES WILL BE CONSIDERED DEFECTIVE AND SHALL BE REPLACED WITHOUT SCRATCHES, MARKS, ETC.

30.0 INSULATION

- A. GENERAL
 - MATERIALS SHALL BE MANUFACTURED BY JOHNS-MANVILLE, ARMSTRONG, OWENS-CORNING, CERTAINTeed-ST. GOBAN, PITTSBURGH PLATE GLASS, OR BENJAMIN FOSTER. MATERIALS FURNISHED SHALL BE EQUAL IN EVERY RESPECT TO THAT SPECIFIED.
 - 1.1. PIPE INSULATION: (COLD AND HOT WATER PIPING): JOHNS-MANVILLE FLAME SAFEGLASS FIBER PIPE INSULATION WITH GVB PRE-SIZED GLASS CLOTH VAPOR BARRIER JACKET. VB REINFORCED FOIL-KRAFT VAPOR BARRIER JACKET IN CONCEALED AREAS. PIPING EXPOSED TO THE ATMOSPHERE SHALL HAVE 0.016" THICK SMOOTH OR CORRUGATED ALUMINUM JACKET WITH VAPOR BARRIER. ATTACHMENT SHALL BE MADE BY 1/2" WIDE 0.020" THICK ALUMINUM BANDS WITH APPROVED CLOSURE SYSTEM.
 - 1.2. VAPOR BARRIER ADHESIVE: BENJAMIN FOSTER 30-35
 - 1.3. INSULATION AND FINISHING CEMENT: JOHNS-MANVILLE 375.
 - 1.4. ADHESIVE FOR PIPE INSULATION JACKETS: JOHNS-MANVILLE VBT OR U-GLUE VAPOR BARRIER ADHESIVE.
- B. PREPARATION
 - APPLY INSULATION AFTER SURFACES TO BE INSULATED ARE THOROUGHLY CLEANED AND ENTIRE MECHANICAL SYSTEM HAS BEEN TESTED AND PROVEN TIGHT.
- C. APPLICATION
 - 1.1. PROVIDE EQUAL THICKNESS OF JOHNS-MANVILLE THERMOBESTOS ON HOT PIPING AND FOAMGLAS INSULATION IN 24" SECTIONS AT ALL HANGERS OR OTHER SUPPORT POINTS. HANGERS SHALL BE ON OUTSIDE OF INSULATION AND NOT IN CONTACT WITH PIPE. CURVED GALVANIZED METAL SHIELD SHALL BE USED BETWEEN THE HANGERS OR SUPPORT POINTS AND THE BOTTOM OF THE INSULATED PIPE. SHIELDS SHALL BE 12 GAUGE AND 18" LONG ON PIPING 8" AND LARGER, 16 GAUGE AND 12" LONG ON PIPING 3" THROUGH 6" LONG ON PIPING 1/2" THROUGH 2 1/2".

SERVICE	PIPE SIZE	THICKNESS
DOMESTIC COLD, HOT WATER AND HOT WATER RETURN	ALL	1"

31.0 HANGERS

- A. ALL SYSTEMS SHALL BE OF A TYPE SUITABLE FOR EACH USE. PERFORATED STRAPS SHALL NOT BE USED IN ANY WORK. FOR FERROUS PIPES, USE MALLEABLE IRON, ADJUSTABLE, SPLIT RING, SWIVEL HANGERS. WHERE SEVERAL PIPES ARE PARALLEL AT THE SAME ELEVATIONS, TRAPEZE HANGERS MAY BE USED. FOR COPPER PIPES UP TO AND INCLUDING THREE INCHES IN SIZE, USE MALLEABLE IRON COPPER-PLATED HANGERS. FOR COPPER PIPES LARGER THAN THREE INCHES, USE COPPER-PLATED CLEVIS HANGERS.

32.0 DOMESTIC HOT, COLD WATER

- A. SUPPLY AND INSTALL COMPLETE SYSTEMS OF HOT AND COLD WATER DISTRIBUTION FROM WATER SUPPLY SOURCES INDICATED ON THE DRAWINGS TO PLUMBING FIXTURES, DRINKING FOUNTAINS, SINKS, HYDRANTS ETC., AS SHOWN AND/OR IMPLIED.
- B. HOT AND COLD WATER SUPPLY LINES TO EACH AND EVERY FIXTURE SHALL BE EQUIPPED WITH STOP VALVES WHICH SHALL BE CHROMIUM PLATED WHERE EXPOSED CHROME-PLATED PIPE IS USED.
- C. WATER HAMMER ARRESTERS SHALL BE PROVIDED IN ALL WATER BRANCHES TO FIXTURES. SINGLE, ISOLATED FIXTURES MAY BE PROTECTED FROM WATER HAMMER BY AIR CHAMBERS OF THE SAME DIAMETERS AND MATERIAL ON THE RESPECTIVE SUPPLY PIPE AND TWELVE INCHES (12") LONG BY 3/4" MINIMUM SIZE.
- D. PROPERLY PITCH PIPE AS REQUIRED.
- 34.0 SANITARY SEWER
 - A. SUPPLY AND INSTALL COMPLETE GRAVITY SYSTEMS OF DRAINAGE BETWEEN PLUMBING FIXTURES, FLOOR DRAIN, SPECIAL EQUIPMENT, ETC., AND THE POINT OF TERMINATION INDICATED ON THE DRAWINGS.
 - B. PROVIDE TRAPS FOR EACH UNTRAPPED FIXTURE OR DEVICE IN THE SANITARY SEWER SYSTEM. TRAPS SHALL BE AS CLOSE TO FIXTURES AS IS PRACTICABLE.
- 35.0 SANITARY SEWER PIPING SYSTEMS (INTERIOR 2" AND LARGER)
 - A. SANITARY PIPING ABOVE GRADE SHALL BE PVC OR AS PER CODE REQUIREMENTS.
 - B. JOINTS SHALL BE MADE USING A STAINLESS STEEL SHIELD AND CLAMP ASSEMBLY IN ACCORDANCE WITH CISPI DESIGNATION 310-78.

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NASSAU COUNTY NEW YORK

GRAND STREET APARTMENTS

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C. SANITARY PIPING BELOW GRADE SHALL BE EXTRA HEAVY CAST-IRON SOIL PIPE WITH HUB AND SPIGOT. FITTINGS SHALL CONFORM TO ASTM A-74. JOINTS SHALL BE MADE USING POSITIVE DOUBLE -SEAL COMPRESSION. TYPE GASKETS CONFORMING TO ASTM C-564.

36.0 VENTS

VENT PIPING SHALL BE OF NON-SCALING TYPE AS REQUIRED BY LOCAL BUILDING OFFICIAL.

37.0 SANITARY, WASTE AND VENT PIPING

A. SYSTEMS SHALL HAVE CLEANOUT AND TEST TEES AS FOLLOWS:

- 1.1. CLEANOUTS SHALL CONSIST OF A LONG SWEEP 1/4 BEND OR ONE OR TWO 1/8 BENDS EXTENDED TO AN EASILY ACCESSIBLE PLACE OR WHERE INDICATED ON THE DRAWINGS.
 - 1.2. TEST TEES WITH CLEANOUT PLUGS SHALL BE INSTALLED AT THE FOOT OF ALL SOIL, WASTE STACKS.
 - 1.3. CLEANOUTS SHALL BE PROVIDED AT EACH CHANGE OF DIRECTION, IN INTERIOR HORIZONTAL RUNS AT INTERVALS NOT EXCEEDING 50'. CLEANOUTS SHALL BE BRASS CAULKED INTO THE LINES, AND WHERE THEY OCCUR IN WALLS OR FLOOR OF FINISHED AREAS, SHALL BE PROVIDED WITH ADJUSTABLE ACCESS PLATES. ALL INTERIOR CLEANOUTS SHALL BE SAME SIZE AS THE PIPE SERVED UP TO 4" SIZE AND 4" FOR ALL LARGER LINES. EXTERIOR CLEANOUTS SHALL CONSIST OF A CONCRETE ENCASED WYE IN THE LINE WITH CLEANOUT LEG EXTENDING UPWARD THEREFROM AND TERMINATING IN THE CONCRETE SLAB BELOW GRADE. AT STANDARD CAST IRON CLEANOUT CASTING SHALL BE SET ON THIS SLAB IN SUCH A MANNER AS TO BE FLUSH WITH FINISHED GRADE AND PROVIDE ACCESS THROUGH ITS COVER TO THE CLEANOUT. A REMOVABLE CONCRETE STOPPER SHALL BE THE SAME SIZE AS THE SEWER. FLOOR CLEANOUTS SHALL BE EQUAL TO JOSAM #5600. WALL CLEANOUTS SHALL BE EQUAL TO JOSAM #58710.
- B. SOIL, WASTE AND VENT PIPING FOR THE SANITARY DRAINAGE, MUST BE OF SIZE NOTED AND BE RUN AS INDICATED. WHERE ELEVATIONS ARE GIVEN, PIPES MUST BE RUN IN STRAIGHT LINES AND HAVE A UNIFORM GRADE BETWEEN THE ELEVATIONS NOTED AND NO BRANCH DRAIN SHALL HAVE A LESS GRADE THAN THAT INDICATED FOR THE MAIN DRAIN TO WHICH IT IS CONNECTED. WHERE ELEVATIONS ARE NOT GIVEN, PIPES SHALL BE GIVEN A UNIFORM GRADE OF 1/8"/FOOT WHERE POSSIBLE BUT NOT LESS THAN 1/16"/FOOT. ALL OVERHEAD PIPES MUST BE KEPT AS CLOSE TO CEILINGS AS POSSIBLE UNLESS OTHERWISE NOTED OR INDICATED. THE SOIL AND WASTE PIPES SO SHOWN AND NOTED ON THE DRAWINGS SHALL BE EXTENDED AS BENT PIPES TO ABOVE THE ROOF LINE AND PROJECT ABOVE ROOF LINE BUT NOT LESS THAN 6" NOR MORE THAN 18". WHERE SO NOTED OR INDICATED ON DRAWINGS, TWO OR MORE VENT PIPES SHALL BE CONNECTED TOGETHER AND EXTENDED AS ONE PIPE. CONNECTIONS ON WHICH THE FIXTURE VENTED IS LOCATED SO AS TO PREVENT THE USE OF ANY VENT LINES AS A WASTE.
- C. CHANGES IN PIPE SIZES ON SOIL, WASTE LINES SHALL BE MADE WITH REDUCING FITTINGS. CHANGES IN DIRECTION SHALL BE MADE BY 45 DEGREE WYES, LONG-SWEEP 1/4 BENDS, 1/8, 1/4 OR 1/2 BENDS, EXCEPT THAT SANITARY TEES MAY BE USED ON VERTICAL STACKS AND SHORT 1/4 BENDS OR ELBOWS MAY BE USED IN SOIL AND WASTE LINES WHERE THE CHANGE IN DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL AND ON THE DISCHARGE FROM WATER CLOSETS.
- D. PIPE SHALL BE CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT THE BUILDING BY CONTRACTOR AND SHALL BE WORKED INTO PLACE WITHOUT SPRINGING OR FORCING. CARE SHALL BE TAKEN NOT TO WEAKEN THE STRUCTURAL PORTION OF THE BUILDING. SERVICE PIPE, VALVES AND FITTINGS SHALL BE KEPT A SUFFICIENT DISTANCE FROM OTHER SURFACES TO PERMIT NOT LESS THAN 1/2" BETWEEN FINISHED COVERINGS ON THE DIFFERENT SURFACES. CHANGES IN PIPE SIZES SHALL BE MADE WITH REDUCING FITTINGS.
- E. LOCATIONS AND SIZES OF CHASES AND OPENINGS NECESSARY FOR THE PROPER INSTALLATION OF THE WORK SHALL BE DETERMINED IN ADVANCE AND PROVIDED DURING THE ERECTION OF THE WORK. WHERE PIPES PASS THROUGH WATER PROOFING MEMBRANES FLASHING SLEEVES SHALL BE INSTALLED WITH AN INTEGRAL FLASHING FLANGE TO WHICH A FLASHING SHIELD CAN BE SOLDERED AND THE SPACE SHALL BE MADE WATERTIGHT.

38.0 CLEANING

- A. ALL PIPING SHALL BE THOROUGHLY FLUSHED WITH WATER BEFORE PLACING IN OPERATION. AS SOON AS THE WATER IN THE PIPING RUNS CLEAR, THE STRAINERS SHALL BE CLEANED AND THE SYSTEM PLACED IN OPERATING CONDITION.
- B. ENDS OF SCREW-JOINTED PIPER MUST BE CUT SQUARE SO AS TO SEAT IN THE BOTTOM OF RECESS OF THE FITTINGS, AND MUST BE REAMED OUT. BENDING OF SOIL, WASTE, DRAIN AND VENT PIPES WILL NOT BE PERMITTED.
- C. SEE ARCHITECTURAL PLANS FOR AREAS HAVING SUSPENDED CEILINGS, FURRING, ETC., WHERE PIPING CAN BE CONCEALED.
- D. IN NO CASE SHALL PIPING BE RUN EXPOSED EXCEPT AS PERMITTED BY NOTATIONS ON DRAWINGS. SEE OTHER PARAGRAPHS FOR INSULATION REQUIRED FOR PIPING NOT PROTECTED BY BURIAL IN GROUND OR STRUCTURAL SLABS, ETC.
- E. PARTICULAR CARE SHALL BE TAKEN IN RUNNING PIPING SO AS NOT TO INTERFERE WITH FINISHED ELECTRICAL WORK. IN THE EVENT OF A CONFLICT LOCATION PRIORITY SHALL BE AFFORDED TO ELECTRICAL WORK SO AS NOT TO EFFECT THE APPEARANCE OF THE BUILDING ADVERSELY.

39.0 DISINFECTION OF WATER SYSTEMS

- A. UPON COMPLETION OF ALL TESTS AND NECESSARY REPAIRS OR REPLACEMENTS ALL WATER PIPING SYSTEMS SHALL BE SUBJECTED TO A DISINFECTION PROCEDURE AS HEREIN SPECIFIED. THE SYSTEMS TO BE DISINFECTED SHALL INCLUDE HOT AND COLD WATER PIPING, DRINKING WATER PIPING, AND ANY OTHER SYSTEMS THAT MAY BE CONNECTED TO THE SAME SUPPLY SOURCE. THE DISINFECTANT HS=ALL BE APPLIED TO ALL PIPING INCLUDED IN THE CONTRACT OR FROM THE MAIN CUTOFF VALVE THROUGH ALL TANKS, PUMPS, AND OTHER APPURTENANCES CONNECTED THERETO.
- B. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED WITH WATER TO REMOVE SEDIMENT. FOLLOWING THIS FLUSHING, THEY SHALL BE DISINFECTED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS.
- 1.1. THE SYSTEM SHALL BE CHLORINATED SUCH THAT A CHLORINE RESIDUAL OF NOT LESS THAN 10 PPM, REMAINS IN THE WATER AFTER 24 HOURS STANDING. WATER FROM THE SOURCE OF SUPPLY SHALL BE CONTROLLED SO AS TO FLOW SLOWLY DURING THE APPLICATION OF CHLORINE. THE RATE OF CHLORINE MIXTURE FLOW SHALL BE IN SUCH PROPORTIONS TO THE RATE OF WATER ENTERING PIPE THAT THE CHLORINE DOSE APPLIED SHALL BE PROCEDURE 10 PPM AFTER 24 HOURS STANDING. THIS MAY BE EXPECTED WITH AN APPLICATION OF 25 PPM, ALTHOUGH SOME CONDITIONS MAY REQUIRE MORE.
- C. IN THE PROCESS OF CHLORINATING THE SYSTEM, ALL VALVES AND OTHER APPURTENANCES SHALL BE OPERATED WHILE THE PIPELINE IS FILLED WITH THE CHLORINATING AGENT.
- D. FOLLOWING CHLORINATION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE SYSTEM AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER THROUGHOUT ITS LENGTH SHALL UPON TEST BE APPROVED BY THE PUBLIC HEALTH AUTHORITY HAVING JURISDICTION. THIS SATISFACTORY QUALITY OF WATER DELIVERED BY THE NEW SYSTEM SHOULD CONTINUE FOR A PERIOD OF AT LEAST THREE DAYS AS DEMONSTRATED BY LABORATORY EXAMINATION OF SAMPLES TAKEN FROM A TAP LOCATED AND INSTALLED IN SUCH A WAY AS TO PERCENT OUTSIDE CONTAMINATION. AFTER THE SYSTEMS ARE DRAINED, THEY SHALL BE THOROUGHLY FLUSHED WITH FRESH WATER AND RETURNED TO SERVICE.
- E. COSTS OF TESTS AND DISINFECTION SHALL BE BORNE BY THE CONTRACTOR WHO MUST FURNISH THE OWNER, WITH A COPY TO THE ENGINEER, A CERTIFICATE AUTHENTICATED BY THE PROPER PUBLIC HEALTH AUTHORITY THAT ALL REQUIRED WATER AND PIPING TESTS AND DISINFECTION HAVE BEEN SATISFACTORILY MADE.

40.0 FIXTURES

- A. SUPPLY AND INSTALL ALL PLUMBING FIXTURES INDICATED ON THE DRAWINGS.
- B. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION ON ALL PLUMBING FIXTURES.
- C. PROVIDE ALL NECESSARY APPURTENANCES AND CONNECTIONS TO MAKE SAME OPERATE TO MEET CODE.

D. PLUMBING FIXTURES

- 1.1. FITTINGS AND PIPING SHALL BE BRASS AND WHEREVER EXPOSED, SHALL BE POLISHED CHROME-PLATED. PROVIDE TIGHT WALL OR FLOOR ESCUTCHEONS OF CHROME-PLATED BRASS WHEREVER PIPES PASS THROUGH FLOORS, WALLS OR CEILING. ALL PORCELAIN OR VITREOUS CHINA SHALL BE CLEAN, SMOOTH AND BRIGHT. ALL SHALL BE WARRANTED NOT TO CRAZE, COLOR OR SCALE. ALL PLUMBING FIXTURES SHALL BE WHITE IN COLOR; ALL WATER CLOSET SEATS SHALL BE WHITE. ALL HOT AND COLD WATER SUPPLIES SHALL HAVE CHROME-PLATED PROCESS STOPS. PLUMBING FIXTURES SHALL BE OF THE FOLLOWING TYPES, FURNISHED COMPLETE WITH ALL FITTINGS, MOUNTING FLANGES, CARRIERS, CAP SETTING COMPOUND, ETC.
 - 1.2. PLUMBING FIXTURES SHALL BE AS SELECTED BY OWNER.
- E. INSTALL ALL FIXTURES IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- F. CLEAN ALL FIXTURES AFTER INSTALLATION

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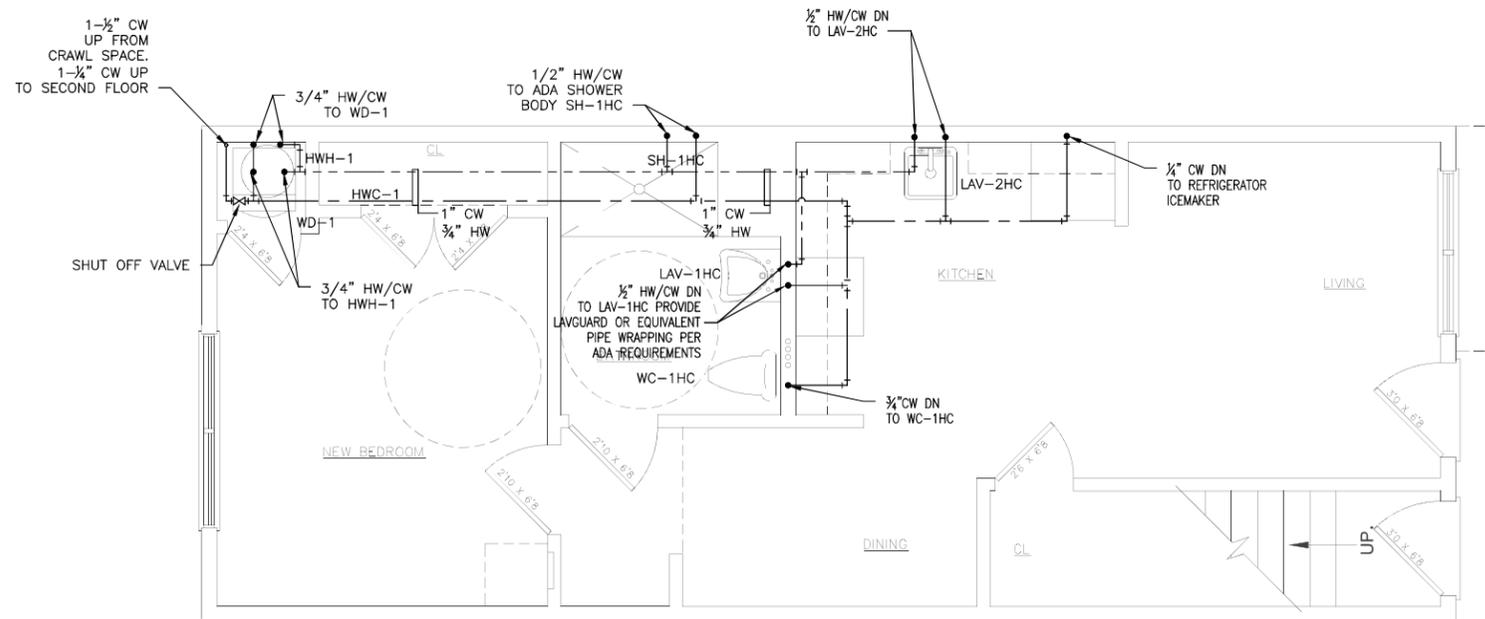
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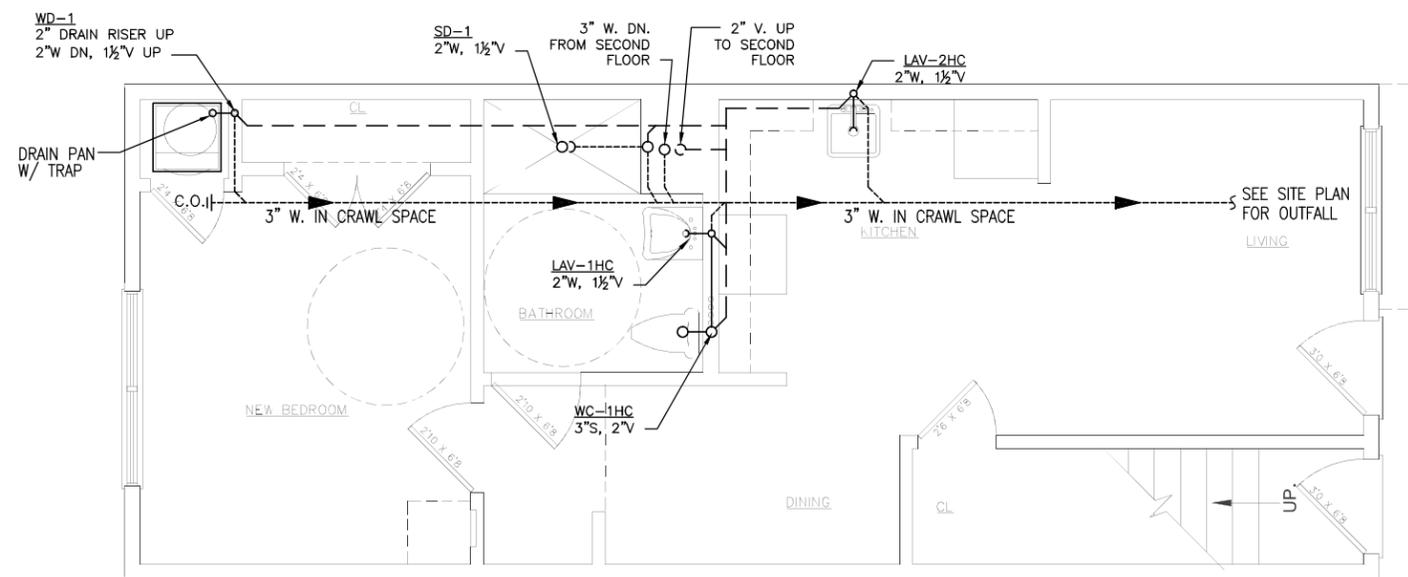
PLUMBING SPECIFICATIONS

PROJECT NO.	5081
DATE:	26 FEB 2018
SCALE:	AS NOTED

P03



① 1 BEDROOM TYPE "A" UNIT - FIRST FLOOR DOMESTIC
3/8" = 1'-0"



② 1 BEDROOM TYPE "A" UNIT - FIRST FLOOR SANITARY
3/8" = 1'-0"

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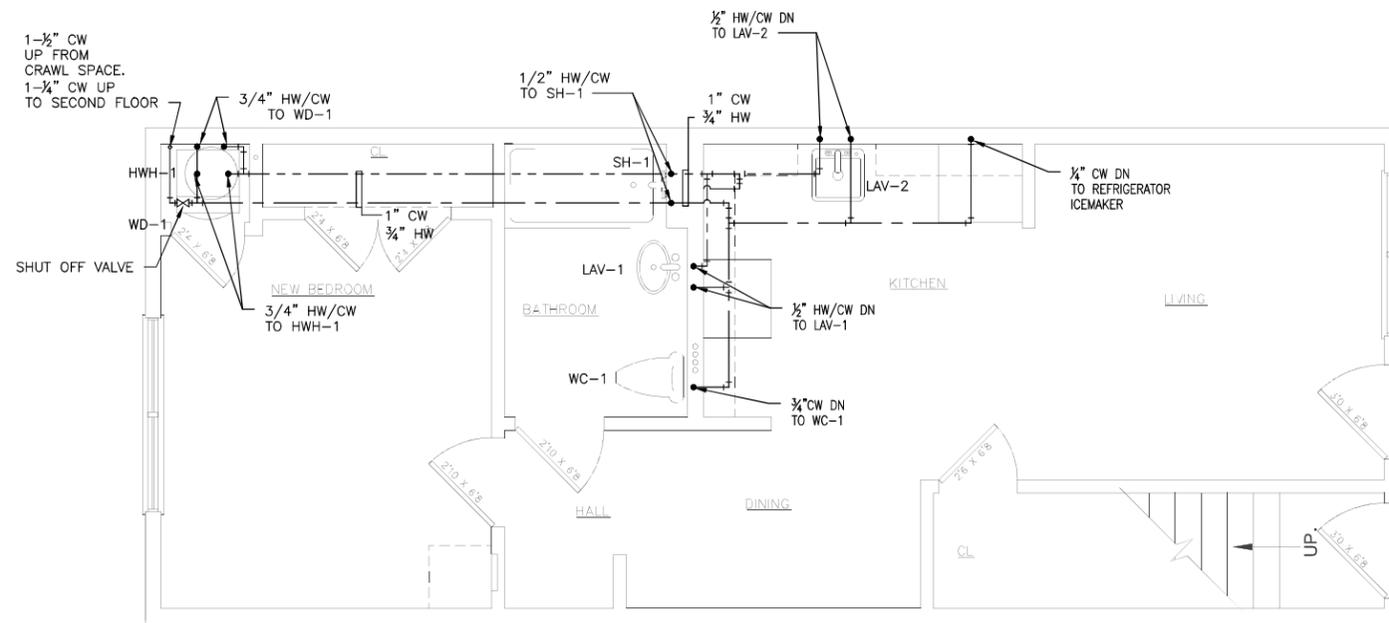


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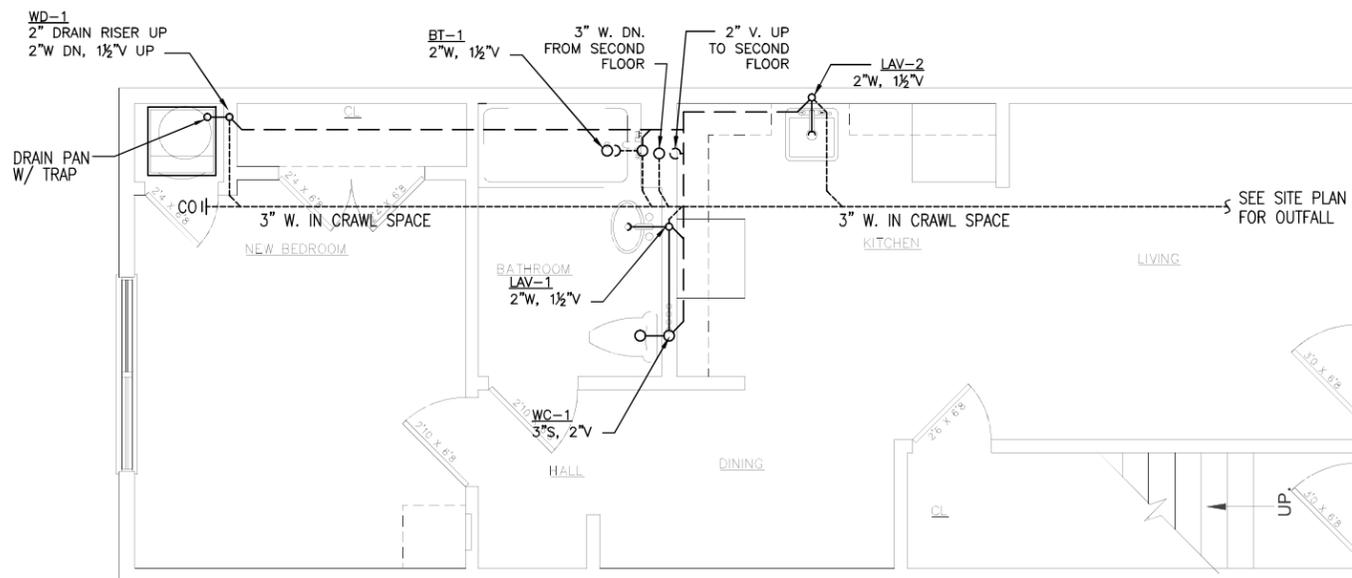
CONTRACT NO.
DOMESTIC/SANITARY PLUMBING PLAN OF 1 BEDROOM APARTMENT TYPE "A" FIRST FLOOR

PROJECT NO. 5081
 DATE: 26 FEB 2018
 SCALE: AS NOTED

DRAWING NO. **P04**



① 1 BEDROOM TYPE "B" UNIT - FIRST FLOOR DOMESTIC
Scale: 3/8" = 1'-0"



② 1 BEDROOM TYPE "B" UNIT - FIRST FLOOR SANITARY
Scale: 3/8" = 1'-0"

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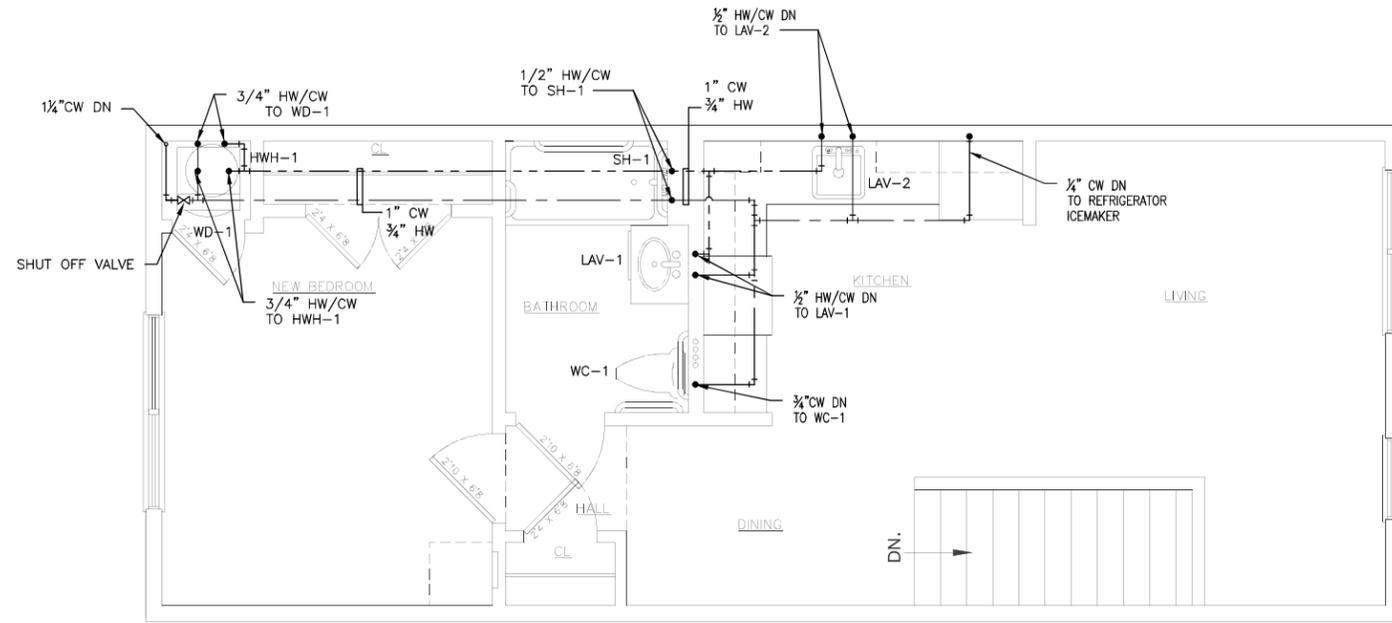
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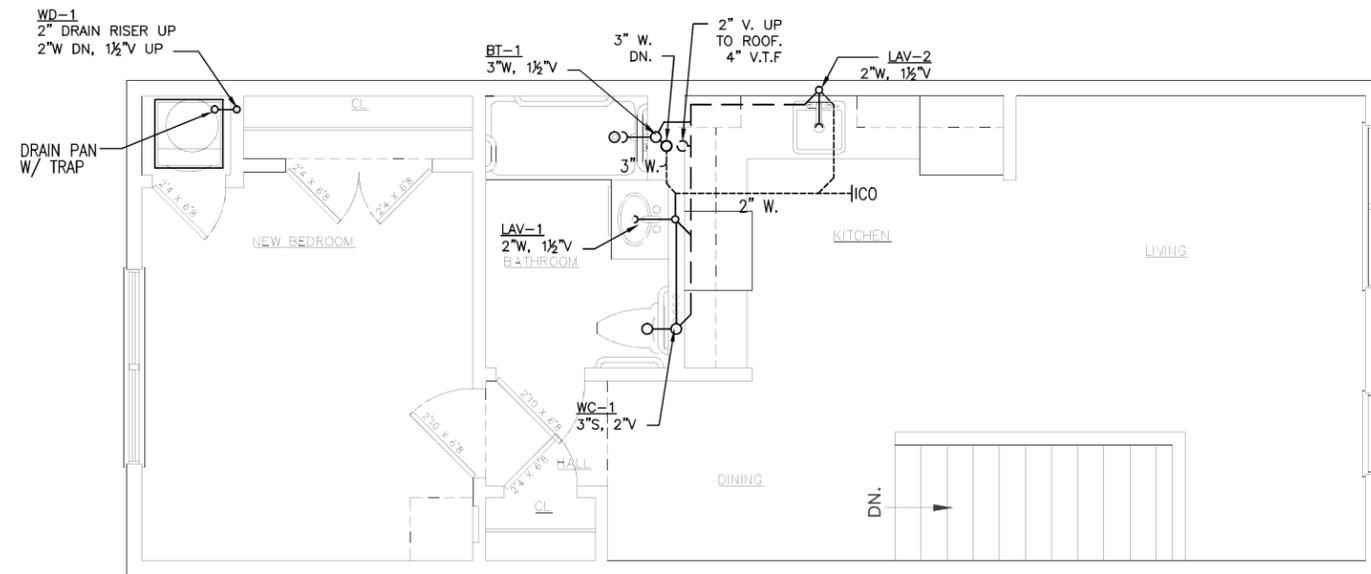
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CONTRACT NO.
DOMESTIC/SANITARY PLUMBING PLAN OF 1 BEDROOM APARTMENT TYPE "B" FIRST FLOOR

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P05



① 1 BEDROOM TYPE "B" UNIT -SECOND FLOOR DOMESTIC
Scale: 3/8" = 1'-0"



② 1 BEDROOM TYPE "B" UNIT - SECOND FLOOR SANITARY
Scale: 3/8" = 1'-0"

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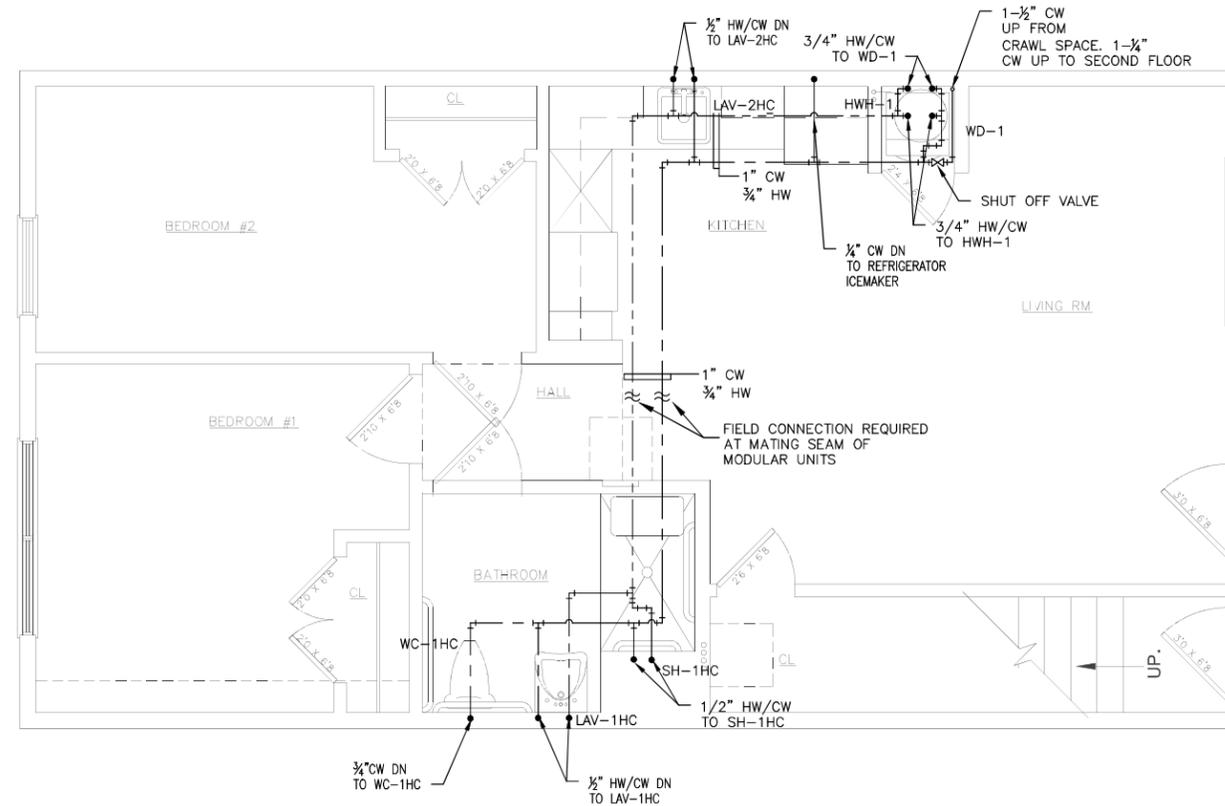
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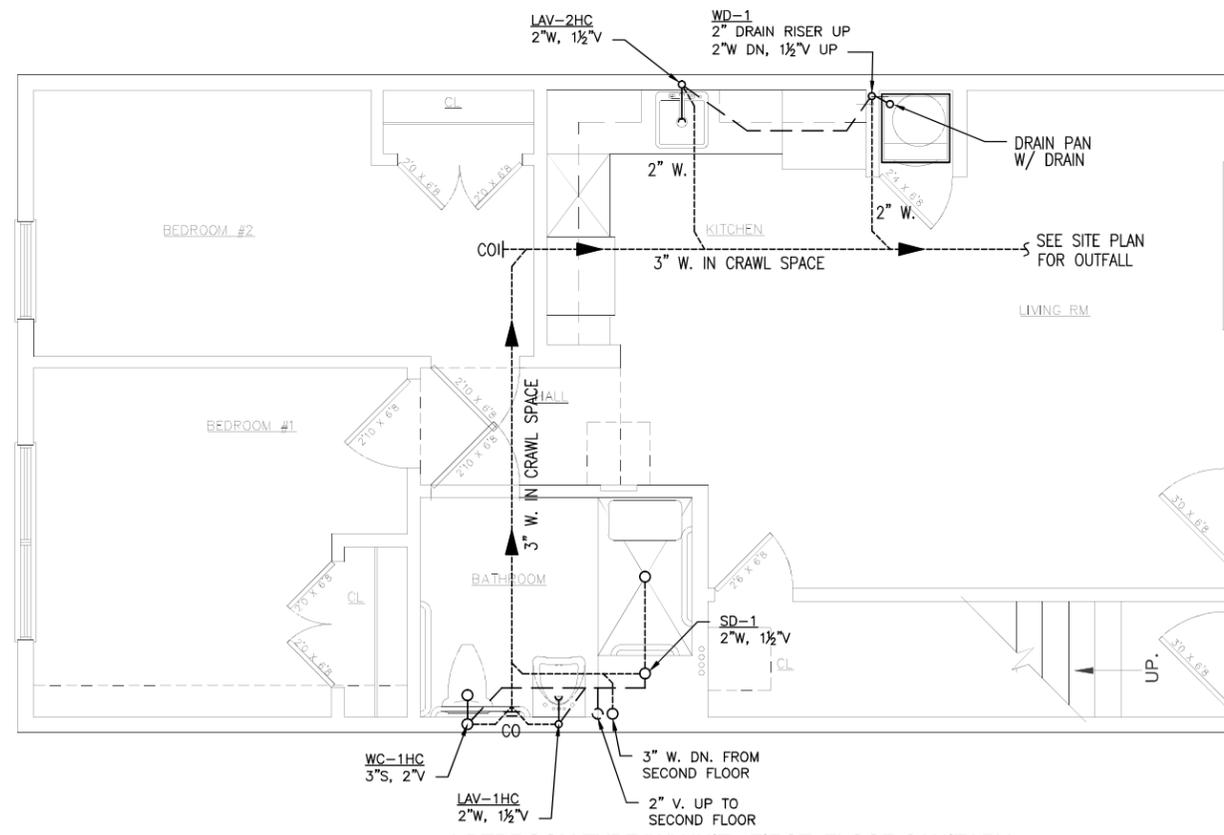
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CONTRACT NO. 5081
DOMESTIC/SANITARY PLUMBING PLAN OF 1 BEDROOM APARTMENT TYPE "B" SECOND FLOOR

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P06



① 2 BEDROOM TYPE "A" UNIT - FIRST FLOOR DOMESTIC
S.S.H. 3/8" = 1'-0"



② 2 BEDROOM TYPE "A" UNIT - FIRST FLOOR SANITARY
S.S.H. 3/8" = 1'-0"

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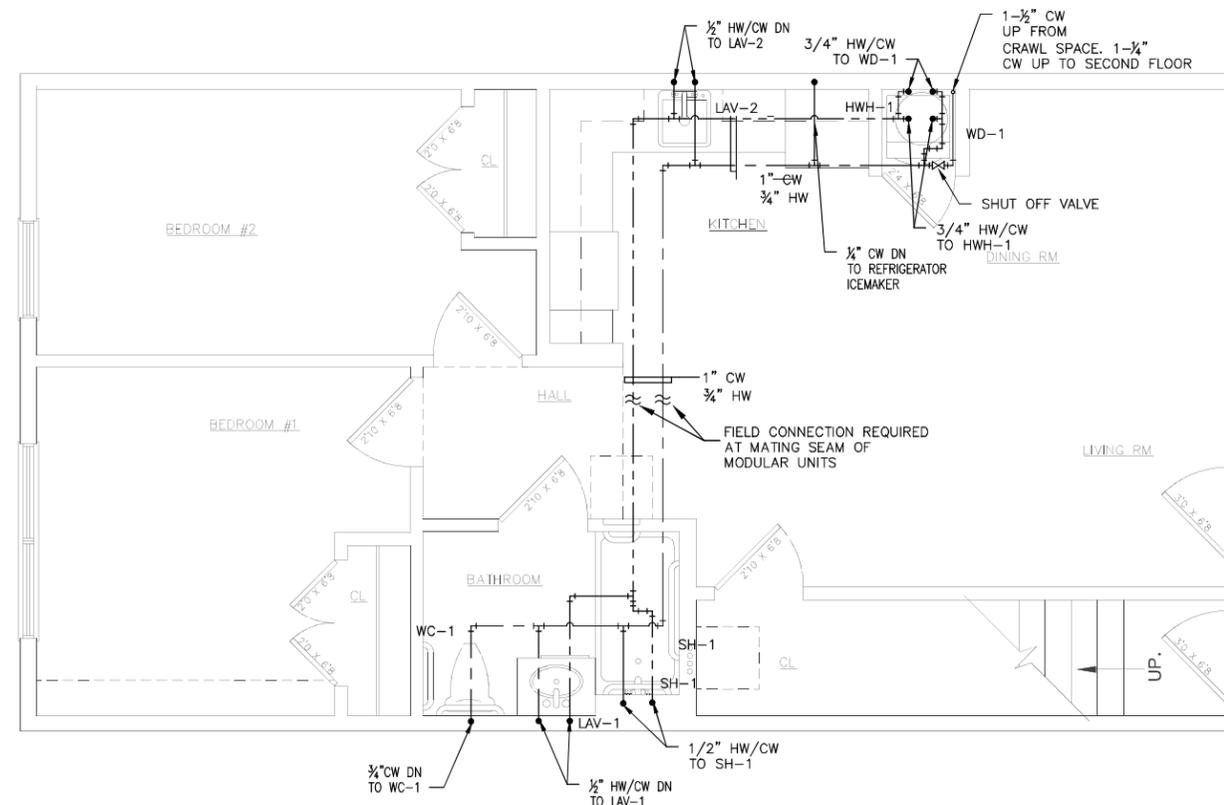
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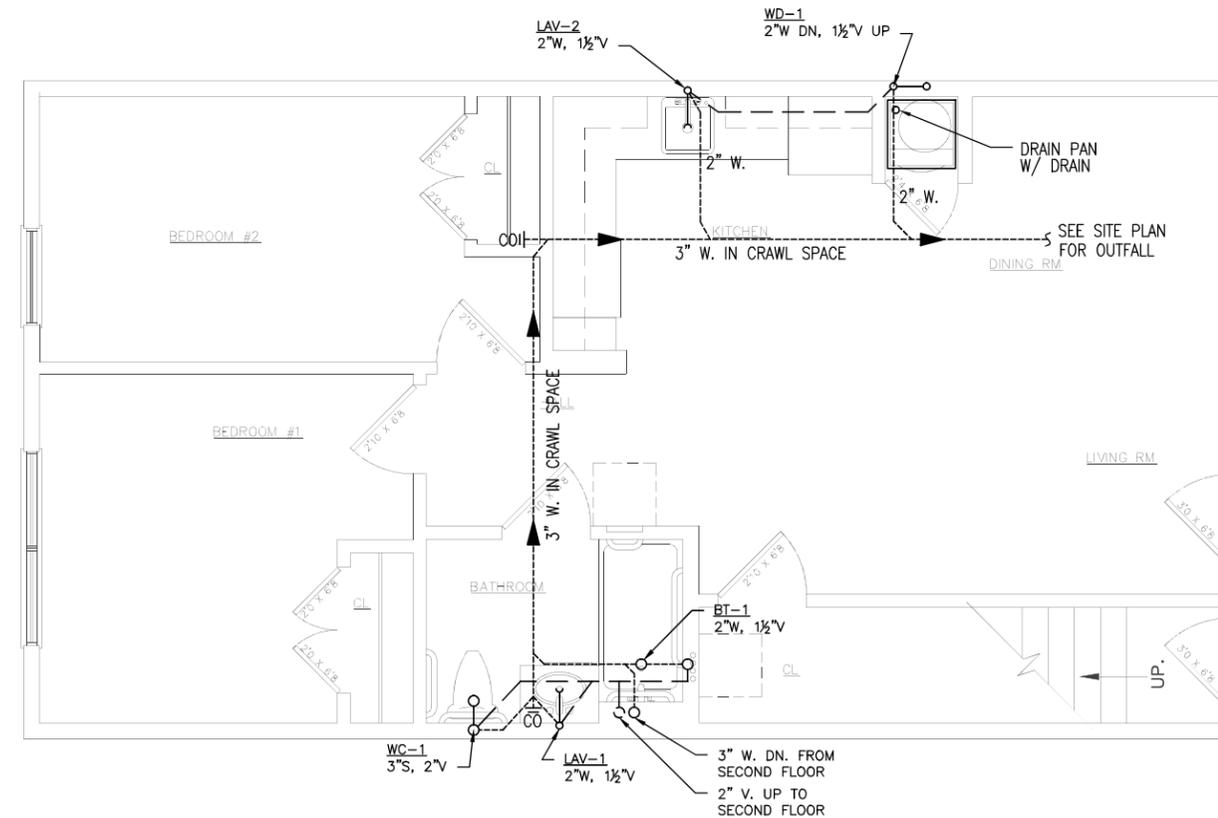
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DOMESTIC/SANITARY PLUMBING PLAN OF 2 BEDROOM APARTMENT TYPE "A" FIRST FLOOR

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P07



① 2 BEDROOM TYPE "B" UNIT - FIRST FLOOR DOMESTIC
Scale: 3/8" = 1'-0"



② 2 BEDROOM TYPE "B" UNIT - FIRST FLOOR SANITARY
Scale: 3/8" = 1'-0"

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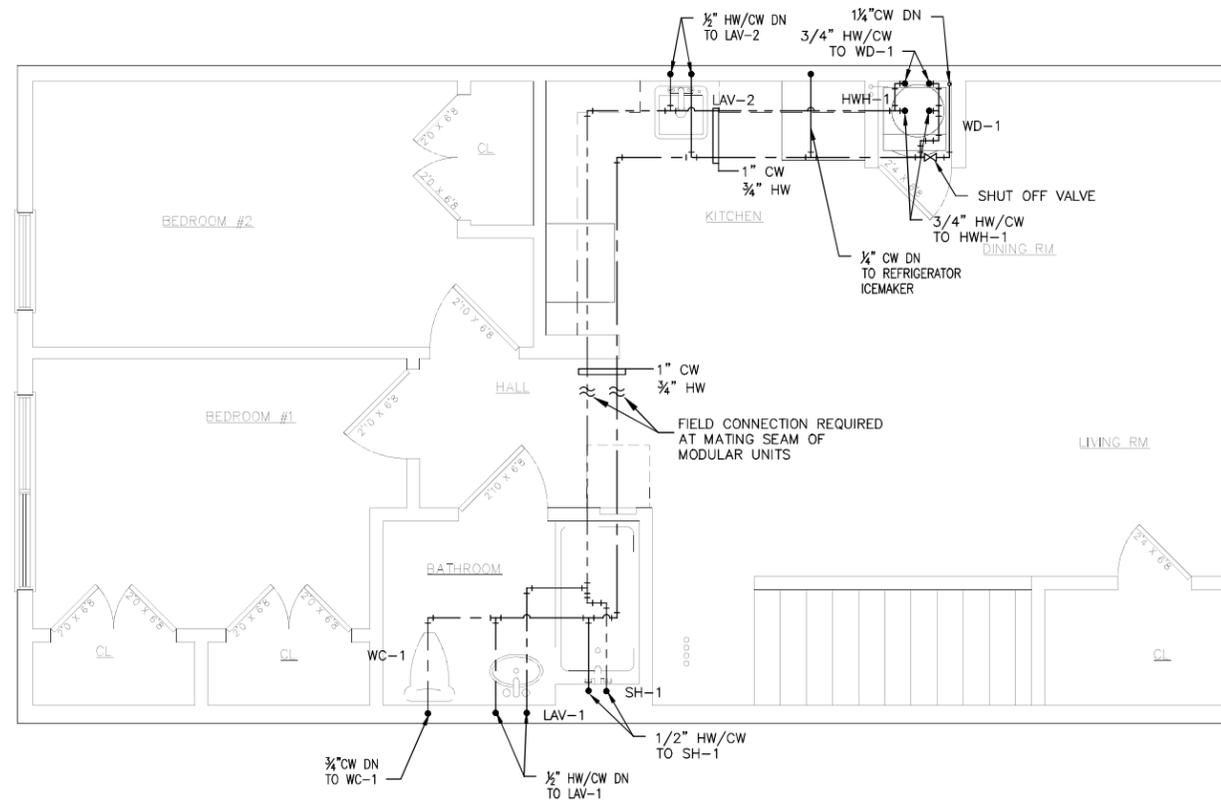
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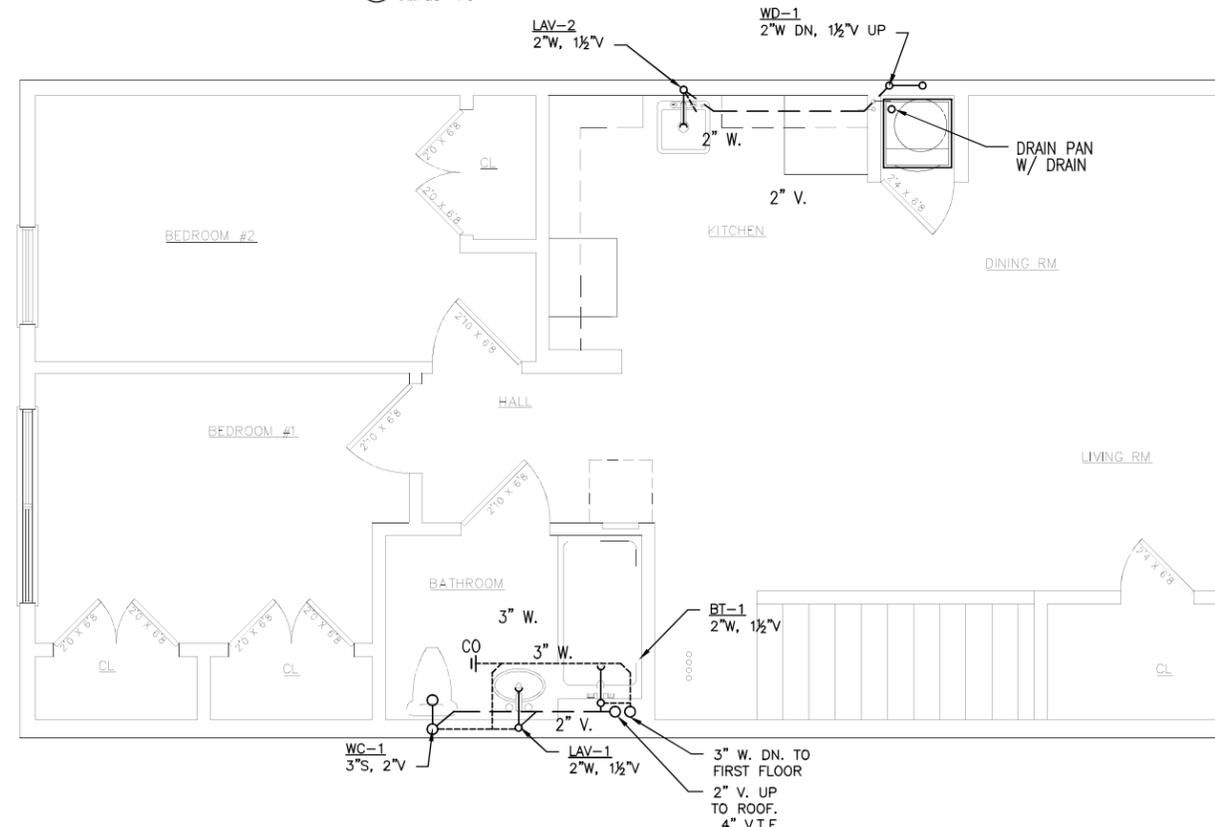
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① 2 BEDROOM TYPE "B" UNIT - SECOND FLOOR DOMESTIC
Scale: 3/8" = 1'-0"



② 2 BEDROOM TYPE "B" UNIT - SECOND FLOOR SANITARY
Scale: 3/8" = 1'-0"

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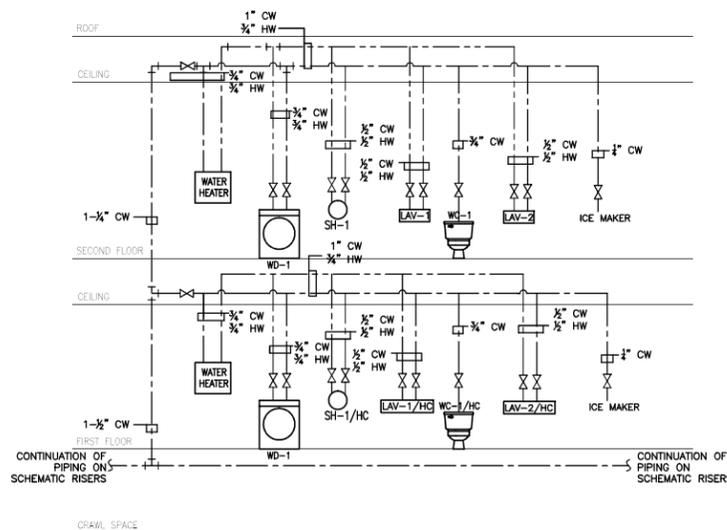
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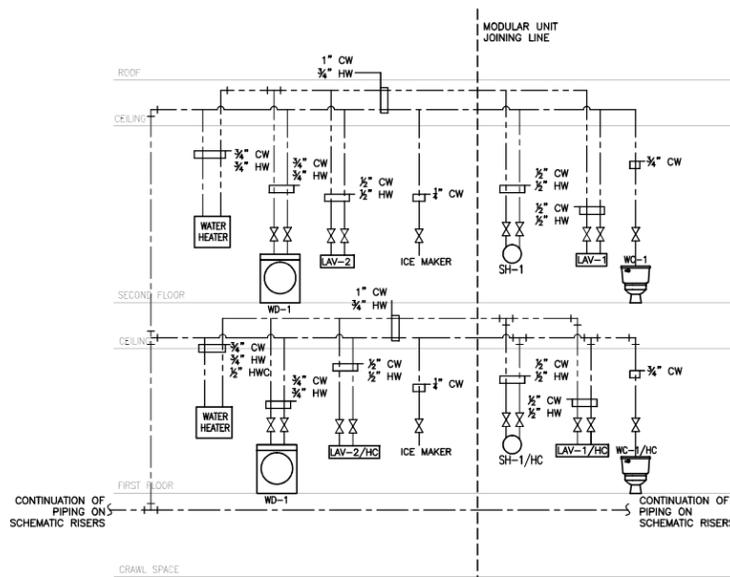
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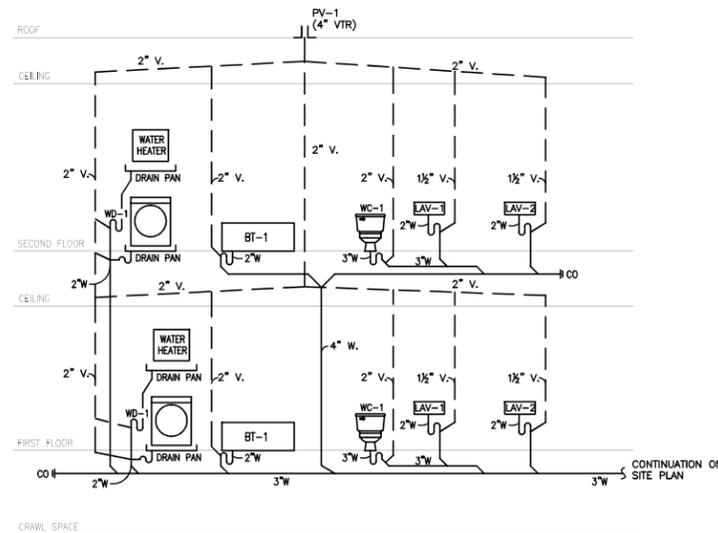
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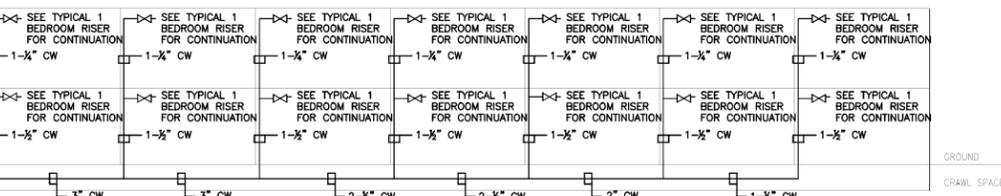
1 DOMESTIC PLUMBING RISER OF TYPICAL 1 BEDROOM UNITS
Scale: NOT TO SCALE



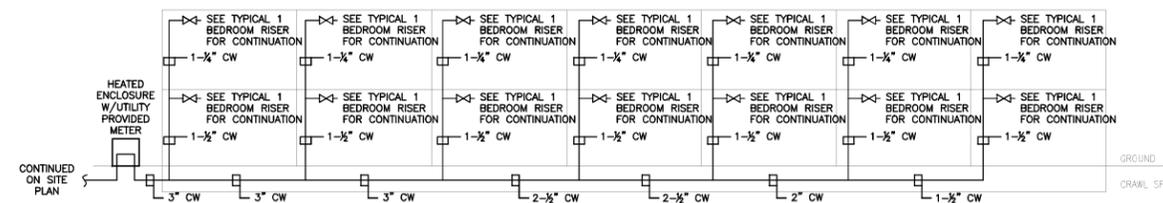
2 DOMESTIC PLUMBING RISER OF TYPICAL 2 BEDROOM UNITS
Scale: NOT TO SCALE



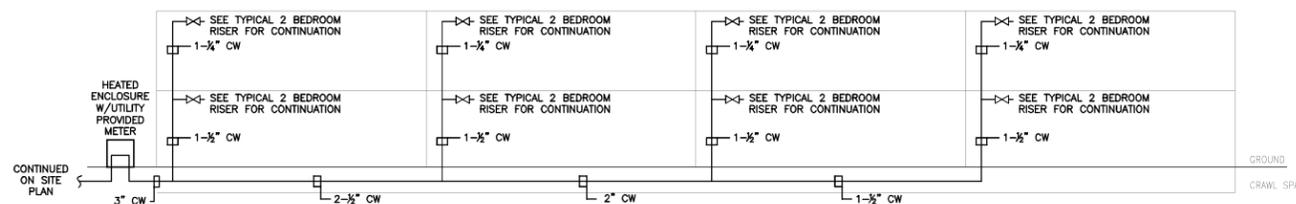
6 SANITARY PLUMBING RISER OF TYPICAL 1 BEDROOM UNITS
Scale: NOT TO SCALE



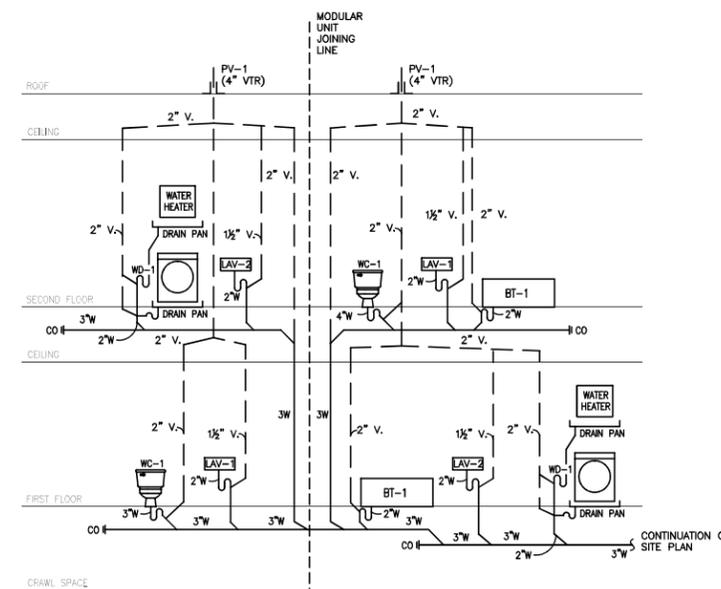
3 SCHEMATIC DOMESTIC PLUMBING RISER ON BUILDINGS 1 & 4
Scale: NOT TO SCALE



4 SCHEMATIC DOMESTIC PLUMBING RISER ON BUILDINGS 2 & 3
Scale: NOT TO SCALE



5 SCHEMATIC DOMESTIC PLUMBING RISER ON BUILDINGS 5 & 6
Scale: NOT TO SCALE



7 SANITARY PLUMBING RISER OF TYPICAL 2 BEDROOM UNITS
Scale: NOT TO SCALE

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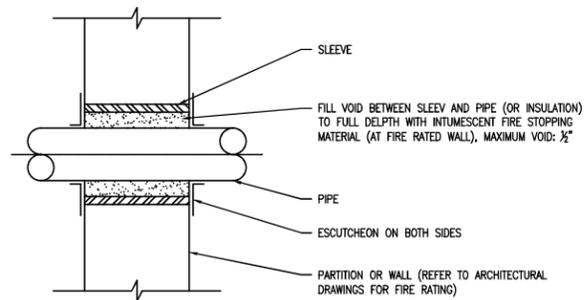


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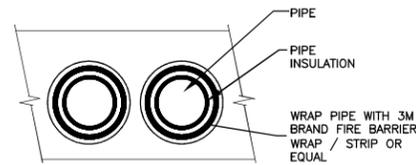
GRAND STREET APARTMENTS

CONTRACT NO.
DOMESTIC AND SANITARY RISER DIAGRAMS

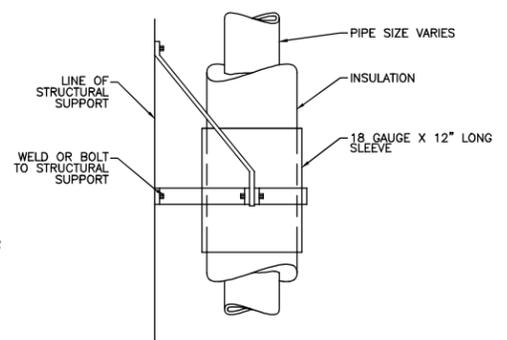
PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
DRAWING NO. P10



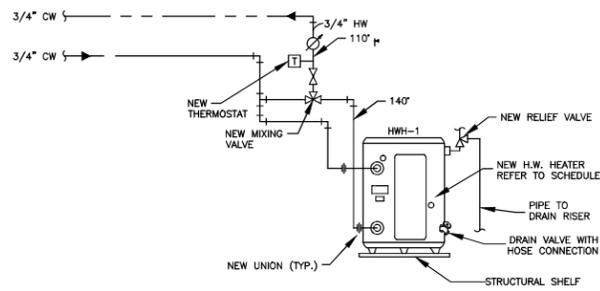
① PIPE PENETRATION THRU FIRE WALL
Scale: NTS



② PIPE PENETRATION DETAIL THRU FIRE RATED WALL
Scale: NTS

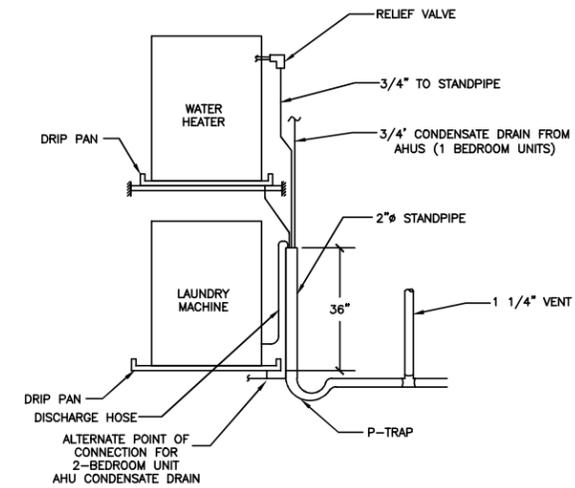


③ DETAIL OF VERTICAL PIPE GUIDE
Scale: NTS



GENERAL NOTE:
1. CONTRACTOR RESPONSIBLE FOR INSULATION OF ALL NEW DOMESTIC WATER LINES.

④ NEW WATER HEATER DETAIL
Scale: NTS



⑤ TYPICAL CLOSET STACKED DRAIN DETAIL
Scale: NTS

DOMESTIC WATER HEATER - BASED ON AO SMITH

MARK	MODEL	LOCATION	NOMINAL CAPACITY	RECOVERY RATE	ELEMENT WATTAGE	ELECTRICAL POWER	PHYSICAL DIMENSIONS (IN.)		CONNECTIONS		WATER HEATER EFFICIENCY
							DIAMETER	HEIGHT	DHWS/DHWR	RELIEF VALVE	
HWH-1	PNLB-50	LIVING UNITS	51 GALLONS	21 GPH @ 90°F	4500 WATTS	240V 1PH	26 1/2"	36"	3/4" FNPT	3/4" FNPT	0.92
HWH-2	PNL-20	COM CTR.	19.9 GALLONS	21 GPH @ 90°F	4500 WATTS	240V 1PH	20"	36"	3/4" FNPT	3/4" FNPT	0.89

- NOTES:
1. UNIT SHALL BE PROVIDED WITH TWO (2) TANK TEMPERATURE SENSORS.
2. CONTRACTOR SHALL ROUTE DRAIN LEG TO FLOOR DRAIN IN LAUNDRY ROOM.

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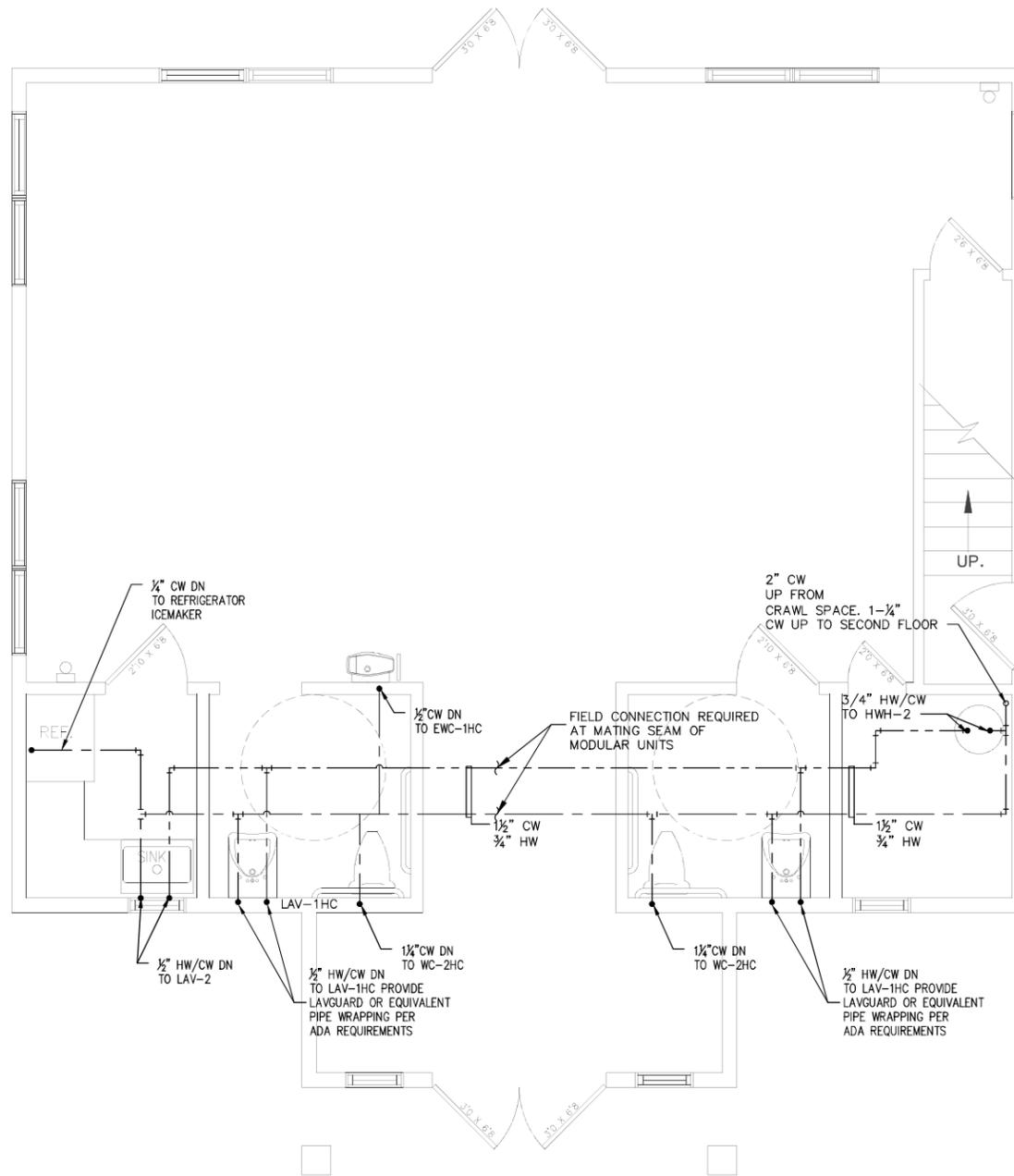
PROJECT ENGINEER: SM
DRAWN BY: DS
DESIGNED BY: SM
CHECKED BY: SM



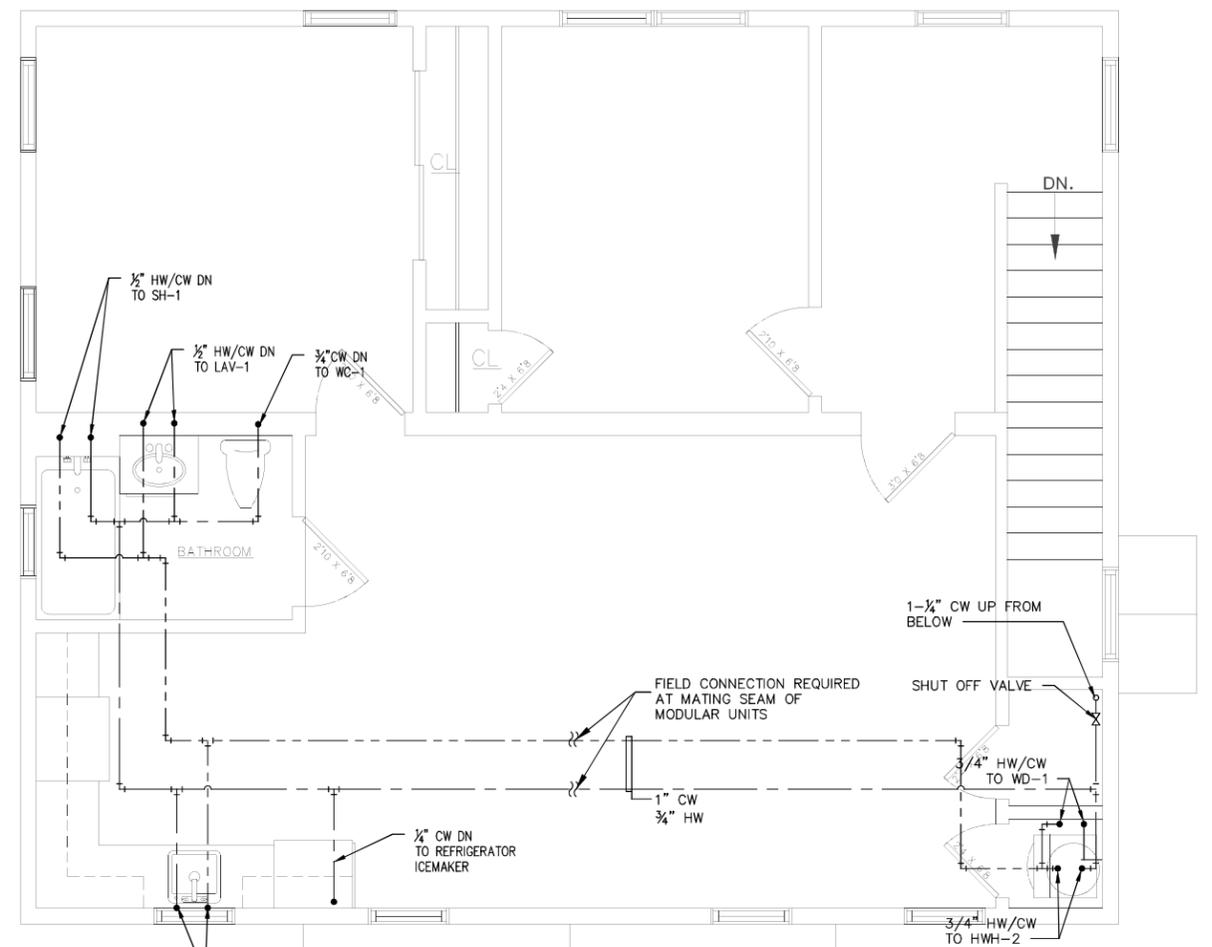
NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
PLUMBING DETAILS AND SCHEDULES

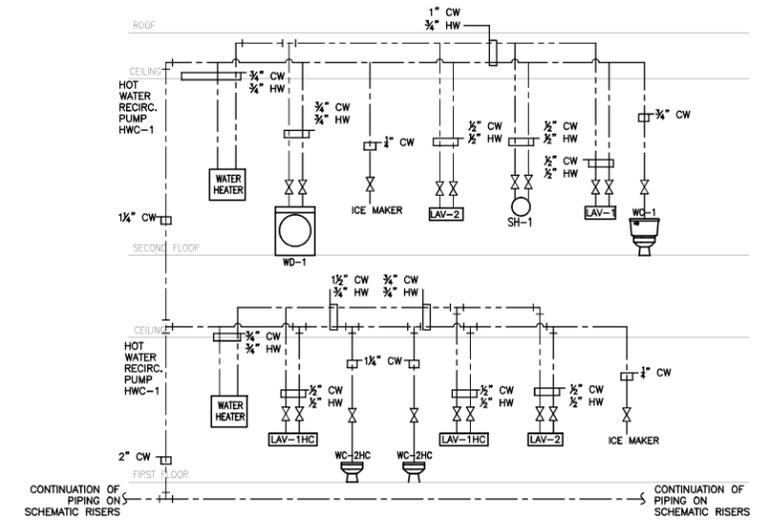
PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
DRAWING NO. **P11**



1 COMMUNITY ROOM - FIRST FLOOR DOMESTIC PIPING
 Scale: 3/8" = 1'-0"



2 COMMUNITY ROOM - SECOND FLOOR DOMESTIC PIPING
 Scale: 3/8" = 1'-0"



3 DOMESTIC PLUMBING RISER OF COMMUNITY ROOM
 Scale: NOT TO SCALE

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PROJECT ENGINEER: SM
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 DESIGNED BY: SM
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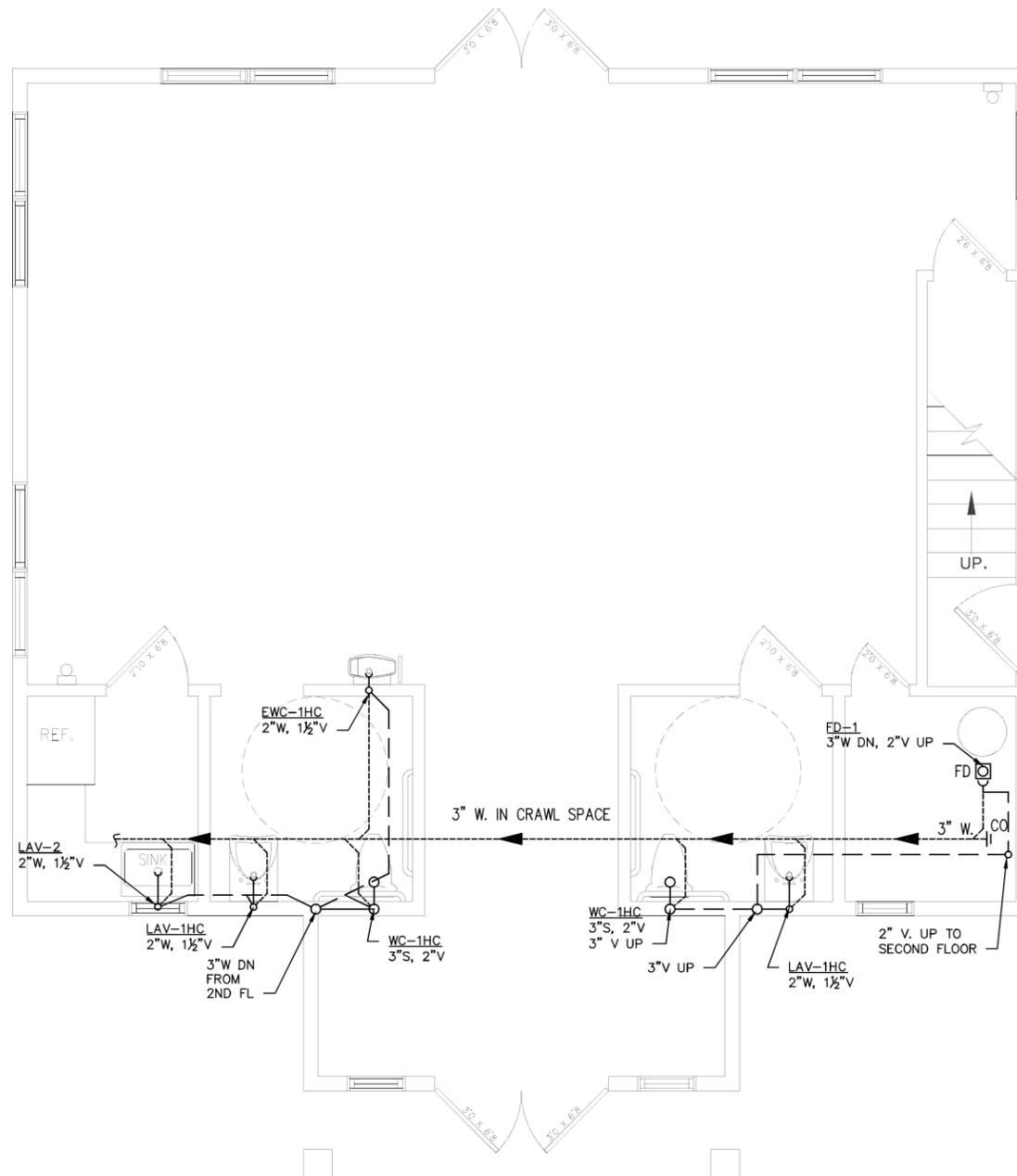
NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK

GRAND STREET APARTMENTS

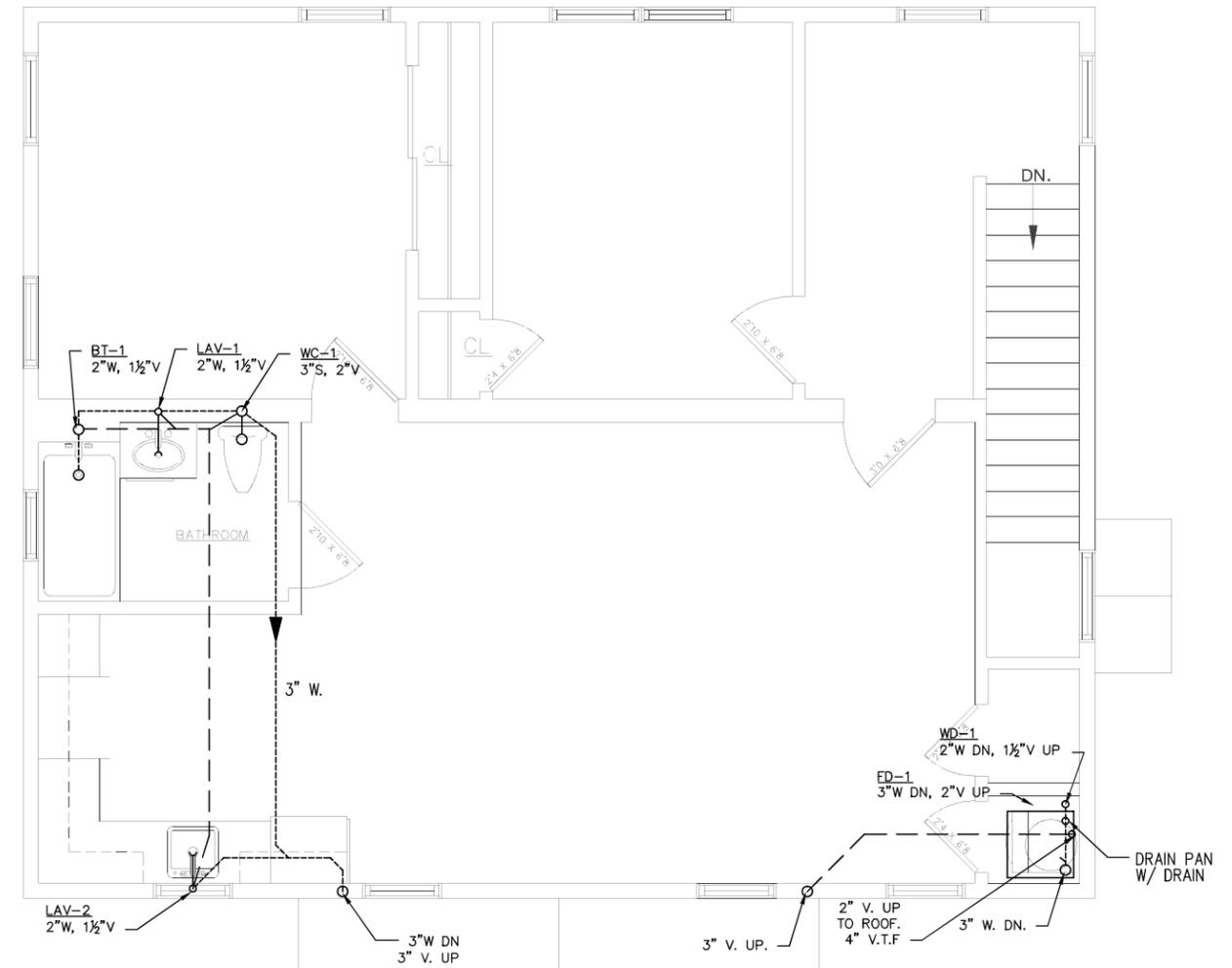
CONTRACT NO.
COMMUNITY ROOM DOMESTIC PLUMBING PLAN & RISER

PROJECT NO. 5081
 DATE: 26 FEB 2018
 SCALE: AS NOTED

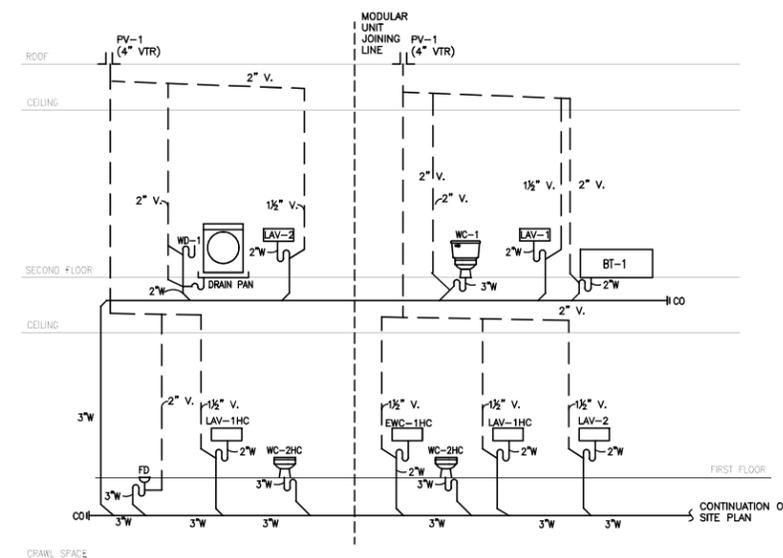
P12



1 COMMUNITY ROOM - FIRST FLOOR SANITARY PIPING
Scale: 3/8" = 1'-0"



2 COMMUNITY ROOM - SECOND FLOOR SANITARY PIPING
Scale: 3/8" = 1'-0"



3 SANITARY PLUMBING RISER OF COMMUNITY ROOM
Scale: NOT TO SCALE

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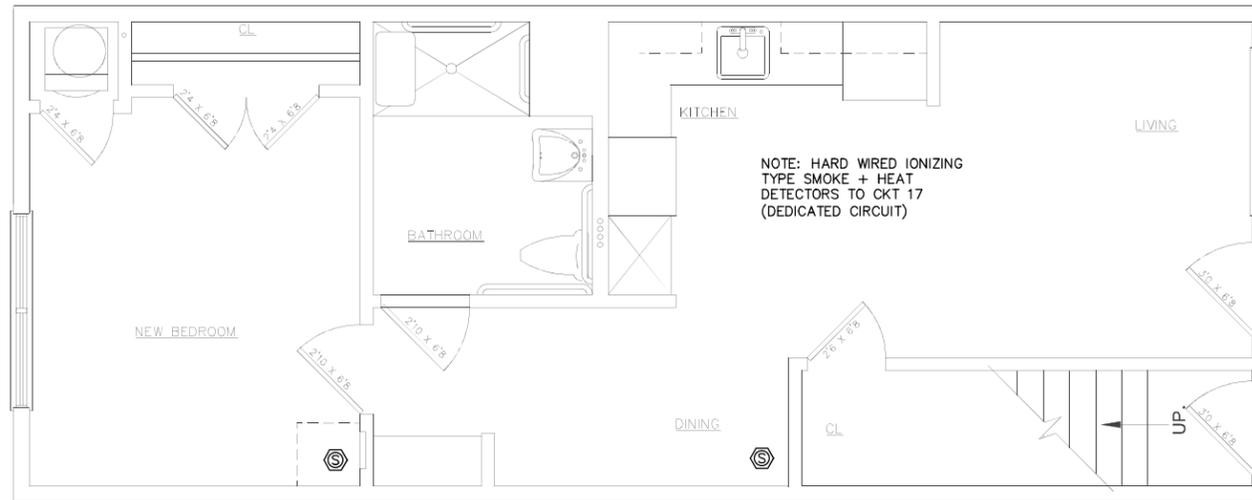
NORTH HEMPSTEAD HOUSING AUTHORITY
NASSAU COUNTY NEW YORK

GRAND STREET APARTMENTS

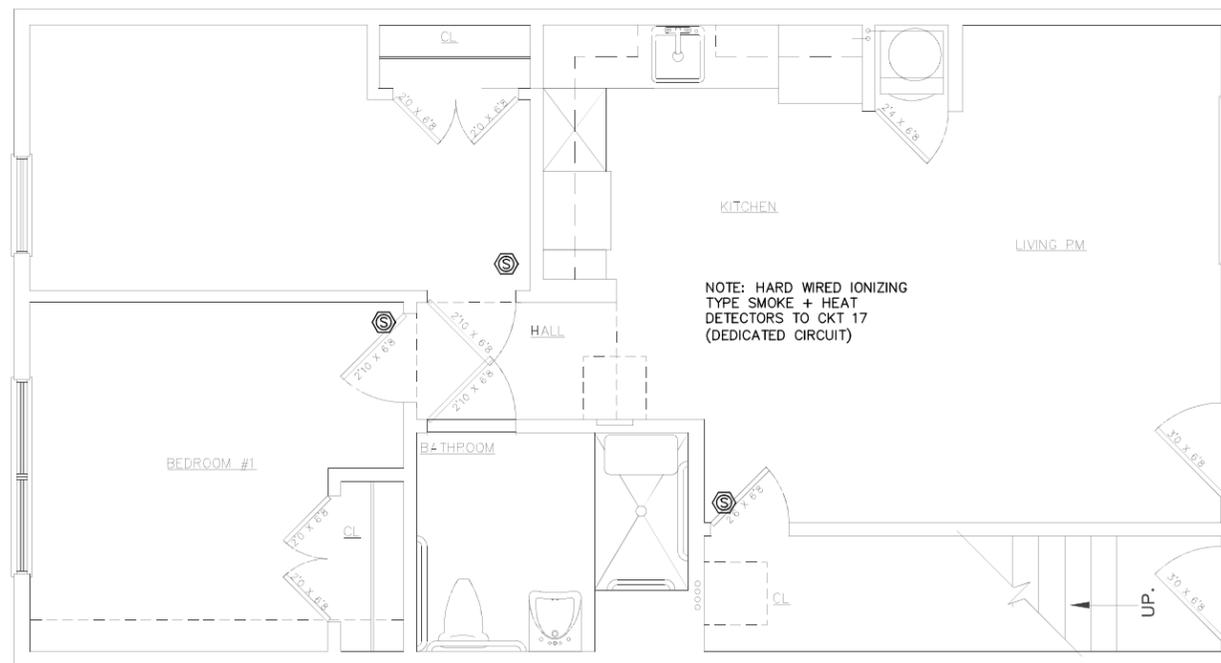
CONTRACT NO.
COMMUNITY ROOM SANITARY PLUMBING PLAN & RISER

PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED

P13



① TYPICAL 1-BEDROOM TYPE "A" UNIT - FIRST FLOOR
 3/8" = 1'-0"



② TYPICAL 2-BEDROOM TYPE "A" UNIT - FIRST FLOOR
 3/8" = 1'-0"

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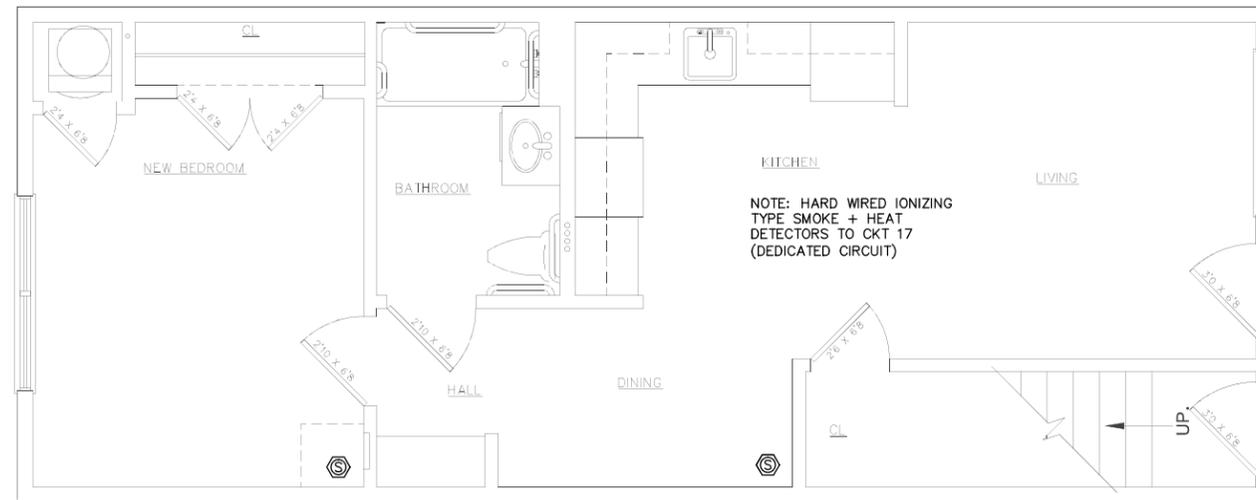


NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

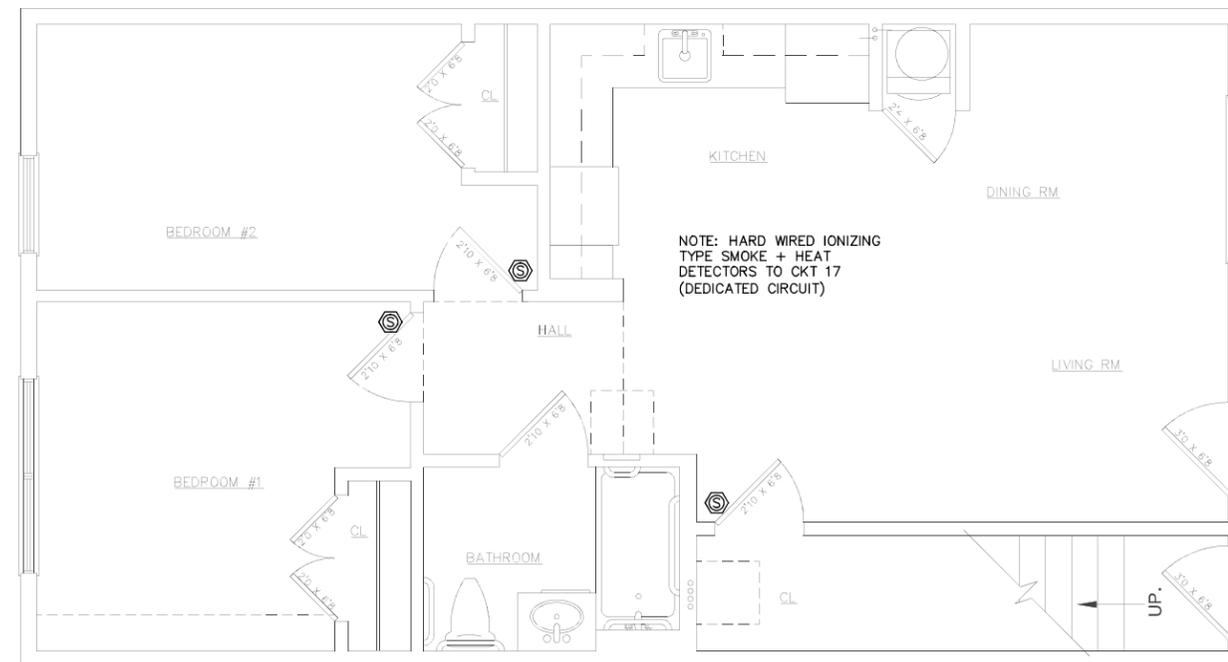
CONTRACT NO. 5081
FIRE ALARM PLAN OF 1 AND 2 BEDROOM UNITS
TYPE "A" FIRST FLOOR

PROJECT NO.	5081
DATE:	26 FEB 2018
SCALE:	AS NOTED

DRAWING NO. FA01



① TYPICAL 1-BEDROOM TYPE "B" UNIT - FIRST FLOOR
3/8" = 1'-0"



② TYPICAL 2-BEDROOM TYPE "B" UNIT - FIRST FLOOR
3/8" = 1'-0"

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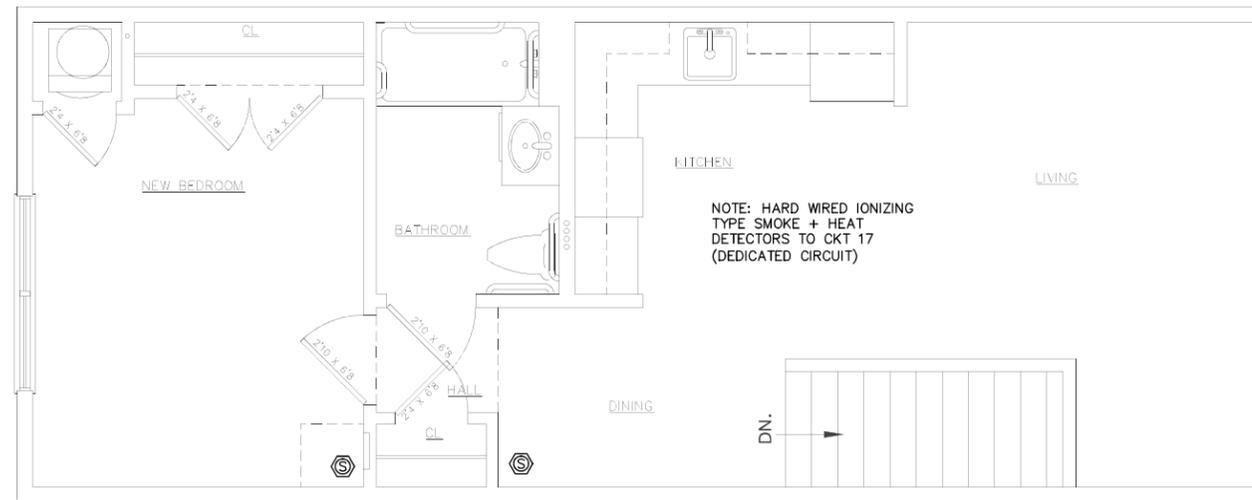


NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

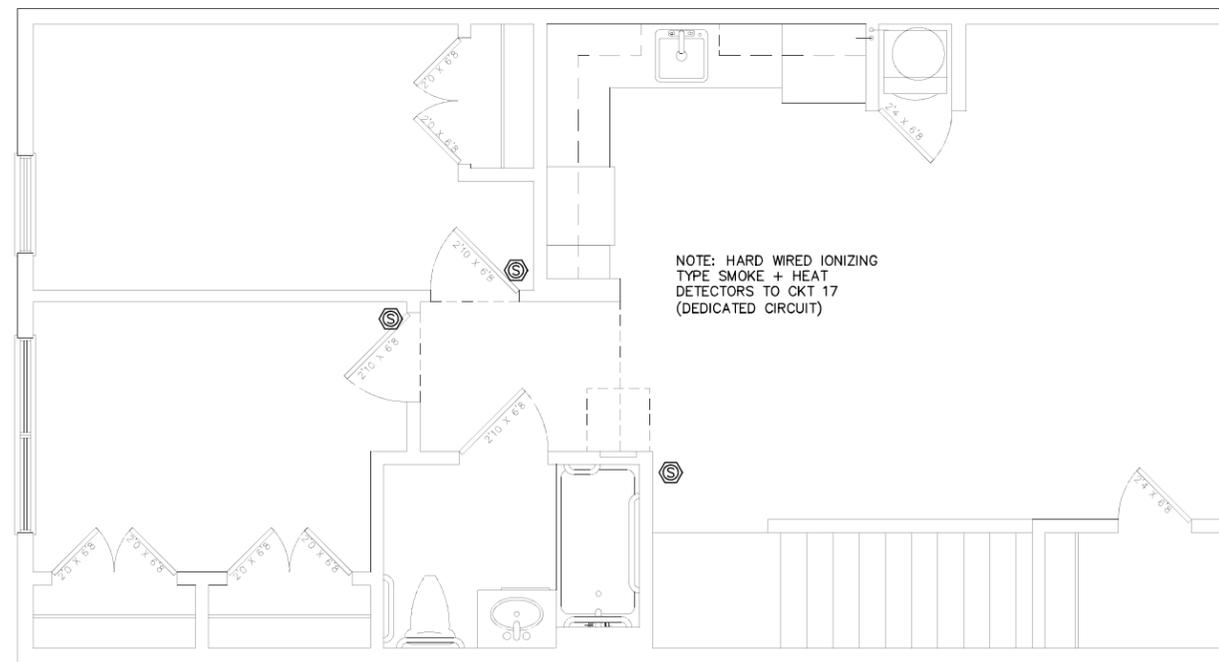
CONTRACT NO. 5081
FIRE ALARM PLAN OF 1 AND 2 BEDROOM UNITS TYPE "B" FIRST FLOOR

PROJECT NO.	5081
DATE:	26 FEB 2018
SCALE:	AS NOTED

FA02



① TYPICAL 1-BEDROOM TYPE "B" UNIT - SECOND FLOOR
 Scale: 3/8" = 1'-0"



② TYPICAL 2-BEDROOM TYPE "B" UNIT - SECOND FLOOR
 Scale: 3/8" = 1'-0"

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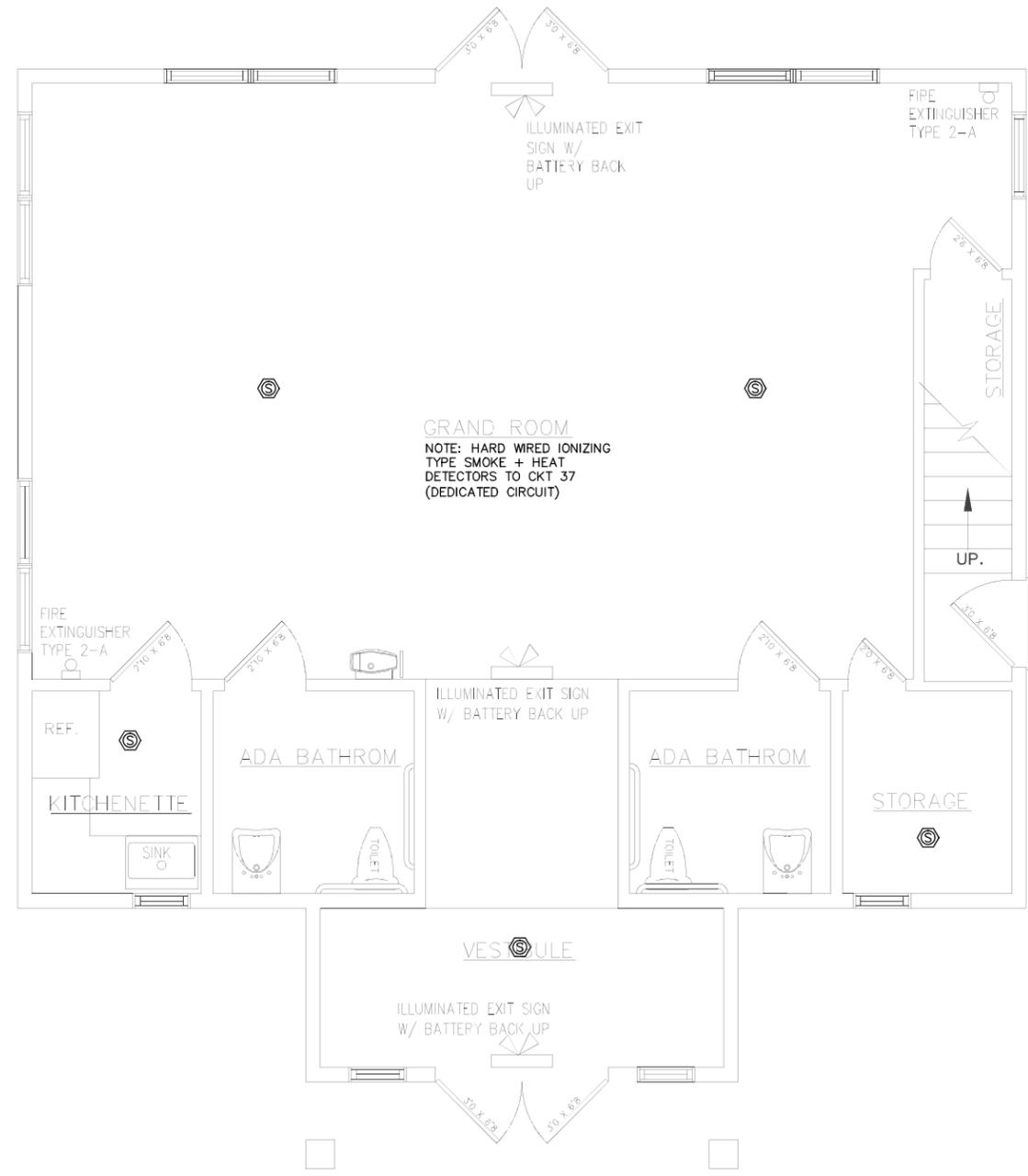
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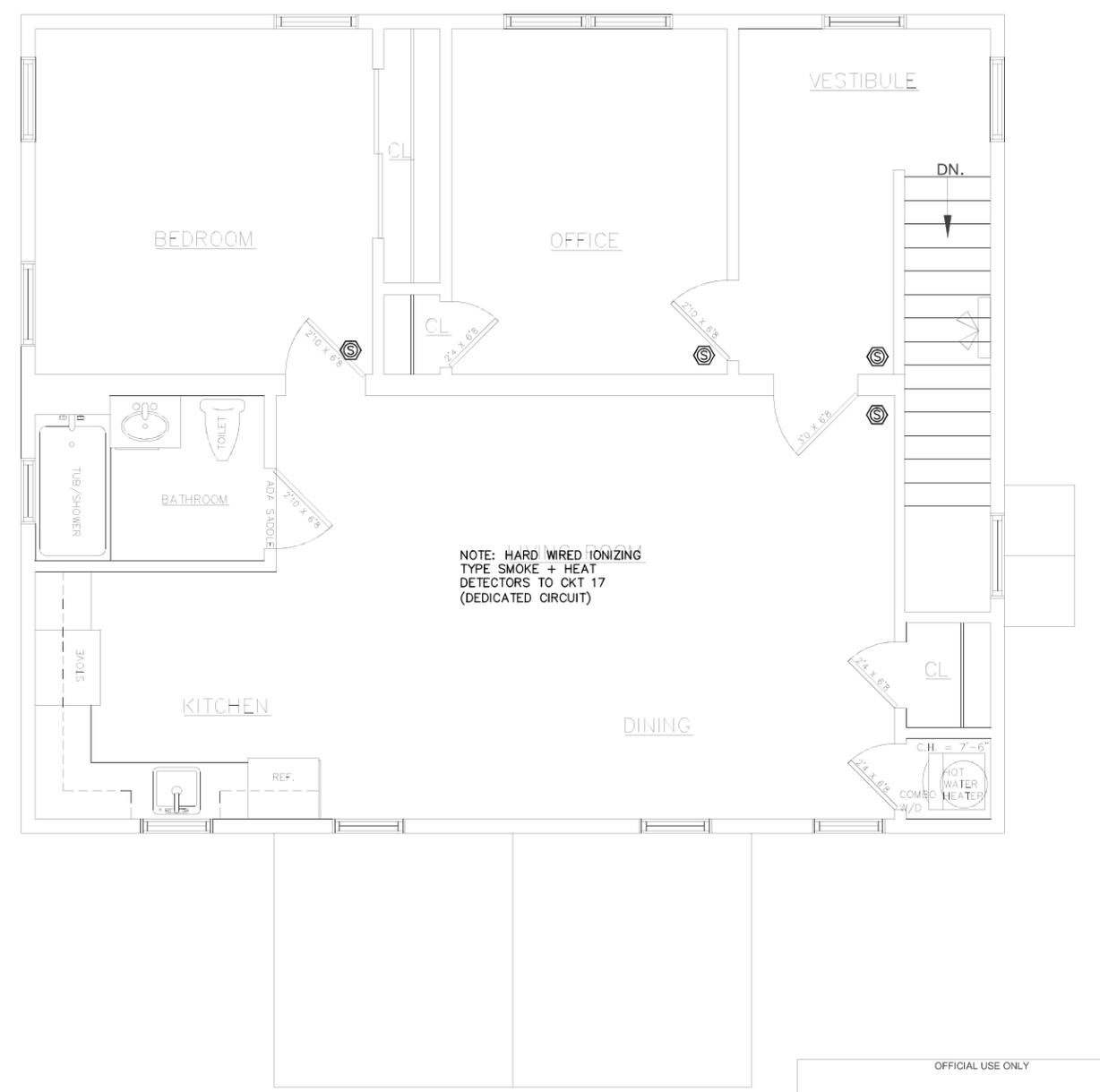
NORTH HEMPSTEAD HOUSING AUTHORITY
 NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
FIRE ALARM PLAN OF 1 AND 2 BEDROOM UNITS TYPE "B" SECOND FLOOR

PROJECT NO. 5081
 DATE: 26 FEB 2018
 SCALE: AS NOTED
 DRAWING NO. **FA03**



1 FIRE ALARM PLAN OF COMMUNITY BUILDING
FIRST FLOOR
Scale: 3/8" = 1'-0"



2 FIRE ALARM PLAN OF COMMUNITY BUILDING
SECOND FLOOR
Scale: 3/8" = 1'-0"

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NASSAU COUNTY NEW YORK
GRAND STREET APARTMENTS

CONTRACT NO.
FIRE ALARM PLAN OF COMMUNITY BUILDING

PROJECT NO. 5081
DATE: 26 FEB 2018
SCALE: AS NOTED
DRAWING NO. **FA04**