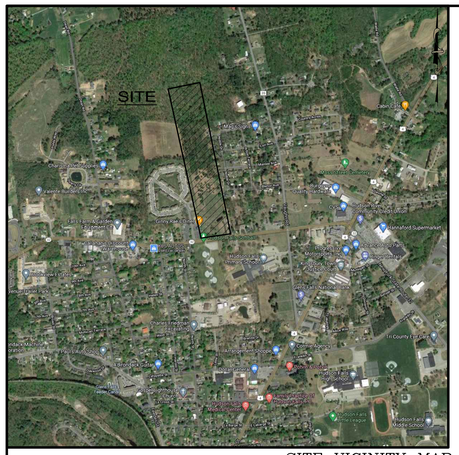


SITE VICINITY MAP
SCALE: 1" = 500'

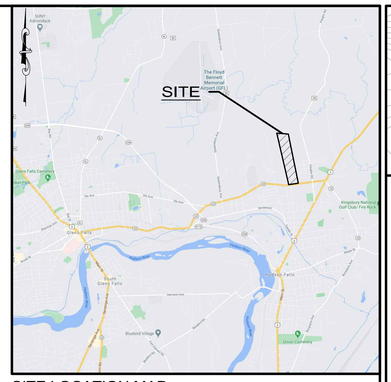
PROPOSED TOWN HOMES FOR

DIX AVE TOWN HOME COTAGES

APPLICANT/OWNER:

SCHERMERHORN REAL ESTATE HOLDINGS, LLC

1177 DIX AVE
TOWN OF KINGSBURY, WASHINGTON COUNTY, NEW YORK
NOVEMBER 11, 2020



SITE LOCATION MAP
SCALE: 1" = 2,000'

SITE STATISTICS

EXISTING ZONING	LDR-25 LOW DENSITY RESIDENTIAL
PARCEL AREA	15.67± ACRES
PROPOSED USE	TOWN HOMES
PROPOSED UNITS	96
BUILDING SETBACKS	
FRONT YARD	80 FT
SIDE YARD	25 FT
REAR YARD	50 FT
PROPOSED PARKING	96 GARAGE 96 EXTERIOR
TOTAL	192 SPACES (XX SPACES PER RESIDENT)
LOT COVERAGE	13.7%
GREEN SPACE	66.1%
UTILITIES	
SANITARY PROVISIONS	ONSITE (SEPTIC)
STORMWATER MANAGEMENT	ONSITE
WATER PROVISIONS	MUNICIPAL CONNECTION
SNOW STORAGE	ONSITE

Sheet List Table

Sheet Number	Sheet Title
1	COVER SHEET
2	SITE PLAN
3	EXISTING CONDITIONS
4	GRADING PLAN
5	UTILITY PLAN
6	PLANTING PLAN
7	EROSION AND SEDIMENT CONTROL PLAN
8	SITE DETAILS
9	SITE DETAILS
10	SITE DETAILS

APPROVED UNDER THE AUTHORITY OF THE TOWN OF KINGSBURY WATER DEPARTMENT

SIGNATURE

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TOWN OF KINGSBURY PLANNING BOARD

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RECORD OF SUBMITTALS	DATE	BY
SUBMISSION OF PRELIMANRY PLANS TO TOWN OF KINGSBURY PLANNING BOARD	01/04/21	STA

PLANS PREPARED BY :

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(518) 371-7621 edpllp.com

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 371-7621
edpllp.com

TAX MAP No. 146.14-1-3
11/11/2020

PROPOSED TOWN HOMES FOR
DIX AVE TOWN HOME COTTAGES
SCHERMERHORN REAL ESTATE HOLDINGS, LLC
1177 DIX AVE
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STA
CHECKED BY	JCG
EDP PROJECT NUMBER	12594

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AS NOTED

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SHEET TITLE:
COVER SHEET

SHEET:
1 of 14

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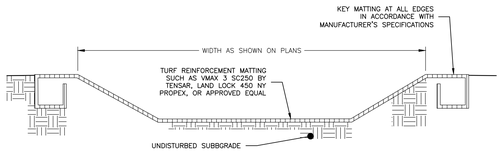
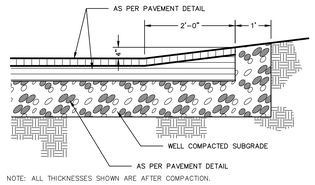
SITE PLAN LEGEND:

- DENOTES POROUS PAVEMENT AREA
- DENOTES STANDARD ROADWAY ASPHALT PAVEMENT — 3/12
- DENOTES ASPHALT DRIVEWAY PAVEMENT
- DENOTES CONCRETE SIDEWALK — 10/12, 9/12
- DENOTES ASPHALT WING CURB — 1/12
- DENOTES POURED IN PLACE CONCRETE VERTICAL CURB — 14/12
- 23 PARKING NUMBER
- SIGN



1/2 REINFORCED OVERFLOW WEIR
NOT TO SCALE



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2/2 ASPHALT WING CURB
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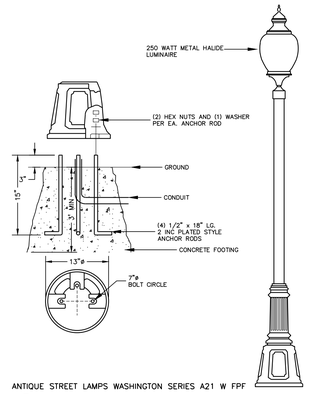

ANTIQUE STREET LAMPS WASHINGTON SERIES A21 W FPF

3/2 ORNAMENTAL LIGHT DETAIL
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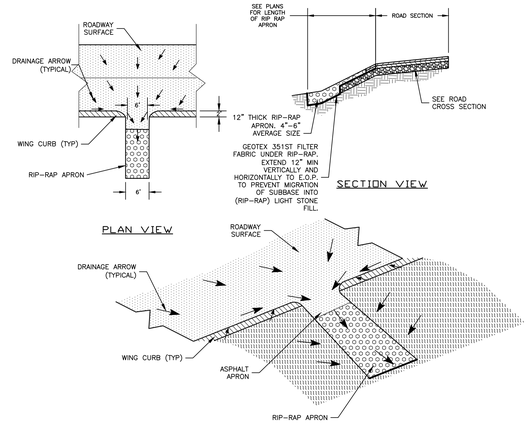

4/2 TYPICAL WING CURB CUT DETAIL
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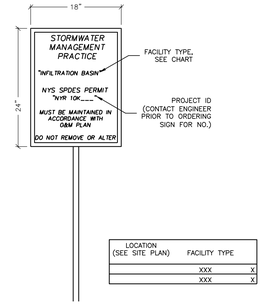
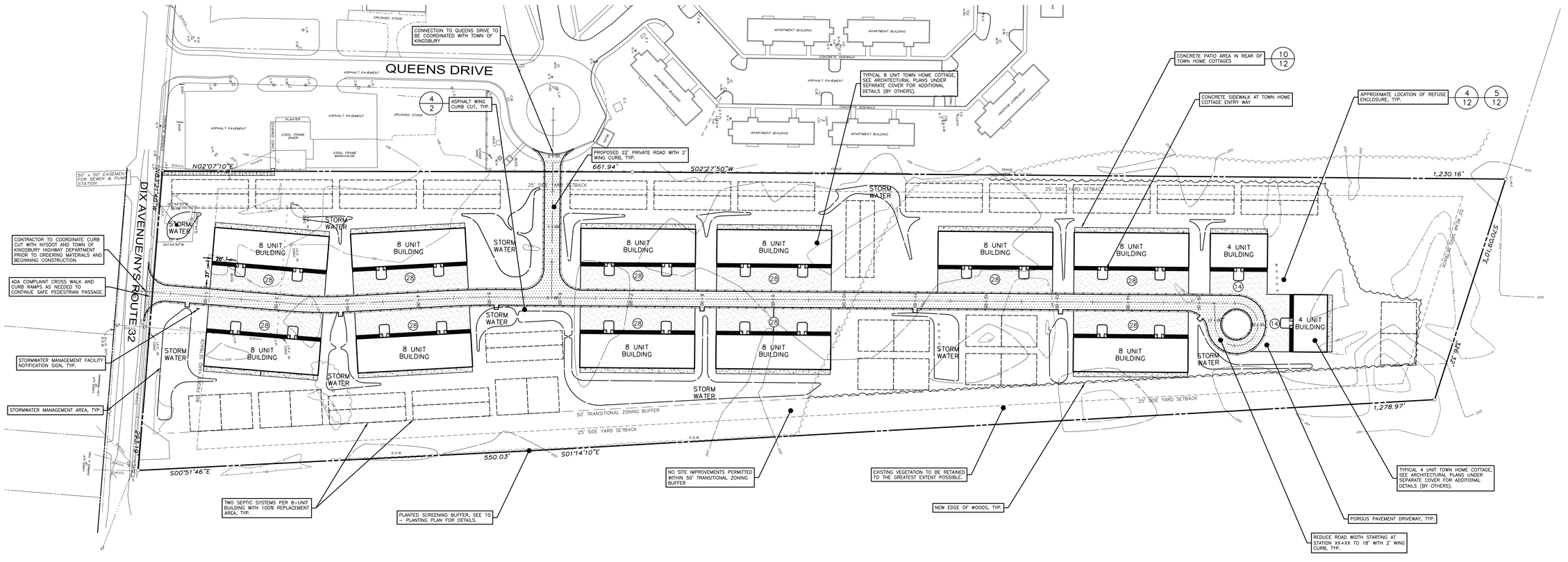


LOCATION (SEE SITE PLAN)	FACILITY TYPE	
	XXX	X
	XXX	X

5/2 STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN
NOT TO SCALE



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PROPOSED TOWN HOMES FOR
DIX AVE TOWN HOME COTTAGES
SCHERMERHORN REAL ESTATE HOLDINGS, LLC

1177 DIX AVE
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

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SCALE:
1" = 60'

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SHEET TITLE:
SITE PLAN

SHEET:
2 of 14

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SOIL DATA

THE FOLLOWING TEST PITS WERE OBSERVED BY ENVIRONMENTAL DESIGN PARTNERSHIP, LLP ON DECEMBER 5, 2014.

TP#1
0" – 8" TOPSOIL
8" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 72" GRAY MEDIUM–COARSE SAND

NO SEASONAL HIGH GROUNDWATER NOTED

TP#2
0" – 8" TOPSOIL
8" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 60" GRAY MEDIUM–COARSE SAND
60" – 84" GRAY COARSE SAND

NO SEASONAL HIGH GROUNDWATER NOTED

TP#3
0" – 18" TOPSOIL
18" – 36" LIGHT BROWN MEDIUM SAND, CLEAN
36" – 84" GRAY MEDIUM–COARSE SAND

NO SEASONAL HIGH GROUNDWATER NOTED

TP#4
0" – 12" TOPSOIL
12" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 84" GRAY MEDIUM–COARSE SAND

NO SEASONAL HIGH GROUNDWATER NOTED

TP#5
0" – 8" TOPSOIL
8" – 24" LIGHT BROWN MEDIUM SAND, CLEAN
24" – 84" GRAY MEDIUM–COARSE SAND

SEASONAL HIGH GROUNDWATER AT 48"

TP#6
0" – 14" TOPSOIL
14" – 24" LIGHT BROWN MEDIUM SAND, CLEAN
24" – 84" GRAY MEDIUM–COARSE SAND

SEASONAL HIGH GROUNDWATER AT 48"

TP#7
0" – 16" TOPSOIL
16" – 24" LIGHT BROWN MEDIUM SAND, CLEAN
24" – 72" GRAY MEDIUM–COARSE SAND

SEASONAL HIGH GROUNDWATER AT 48"

TP#8
0" – 14" TOPSOIL
14" – 24" LIGHT BROWN MEDIUM SAND, CLEAN
24" – 48" GRAY MEDIUM–COARSE SAND
48" – 72" GRAY COARSE SAND

SEASONAL HIGH GROUNDWATER AT 48"

THE FOLLOWING TEST PITS WERE OBSERVED BY ENVIRONMENTAL DESIGN PARTNERSHIP, LLP ON OCTOBER 14, 2020.

WEATHER: 50 – 55°F, SUNNY

TP#9
0" – 10" TOPSOIL
10" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 84" GRAY MEDIUM–COARSE SAND

SHGW/GROUNDWATER AT ~60"

TP#10
0" – 12" TOPSOIL
12" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 54" LIGHT GRAY MEDIUM–COARSE SAND
54" – 96" WET DARK GRAY MEDIUM–COARSE SAND

SHGW AT 54"

TP#11
0" – 12" TOPSOIL
12" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 72" GRAY MEDIUM–COARSE SAND

SHGW AT 42"

TP#12
0" – 10" TOPSOIL
10" – 30" LIGHT BROWN MEDIUM SAND, CLEAN
30" – 96" LIGHT GRAY MEDIUM–COARSE SAND

NO SEASONAL HIGH GROUNDWATER NOTED

THE FOLLOWING PERCOLATION TESTS WERE PERFORMED BY ENVIRONMENTAL DESIGN PARTNERSHIP, LLP ON DECEMBER 5, 2014. ALL PERCOLATION TESTS PRESOAKED TWICE WITH 12" OF WATER AND ALLOWED TO COMPLETELY DRAIN.

PT#1
TRIAL 1: 0:55
TRIAL 2: 1:03
TRIAL 3: 1:05
TRIAL 4: 1:03
TRIAL 5: 1:04

PT#2
TRIAL 1: 0:40
TRIAL 2: 0:55
TRIAL 3: 0:55
TRIAL 4: 0:55
TRIAL 5: 0:54

PT#3
TRIAL 1: 0:40
TRIAL 2: 0:58
TRIAL 3: 1:00
TRIAL 4: 0:59
TRIAL 5: 1:00

PT#4
TRIAL 1: 0:50
TRIAL 2: 1:03
TRIAL 3: 1:10
TRIAL 4: 1:07
TRIAL 5: 1:10

PT#5
TRIAL 1: 1:37
TRIAL 2: 1:22
TRIAL 3: 1:25
TRIAL 4: 1:30
TRIAL 5: 1:31

PT#6
TRIAL 1: 0:54
TRIAL 2: 0:55
TRIAL 3: 0:55
TRIAL 4: 0:55
TRIAL 5: 0:54

PT#7
TRIAL 1: 1:00
TRIAL 2: 1:01
TRIAL 3: 0:59
TRIAL 4: 1:04
TRIAL 5: 0:59

PT#7
TRIAL 1: 1:00
TRIAL 2: 1:01
TRIAL 3: 0:59
TRIAL 4: 1:04
TRIAL 5: 0:59

PT#8
TRIAL 1: 0:25
TRIAL 2: 0:26
TRIAL 3: 0:30
TRIAL 4: 0:27
TRIAL 5: 0:27

PT#9
TRIAL 1: 0:27
TRIAL 2: 0:26
TRIAL 3: 0:27
TRIAL 4: 0:27

PT#10
TRIAL 1: 0:25
TRIAL 2: 0:27
TRIAL 3: 0:25

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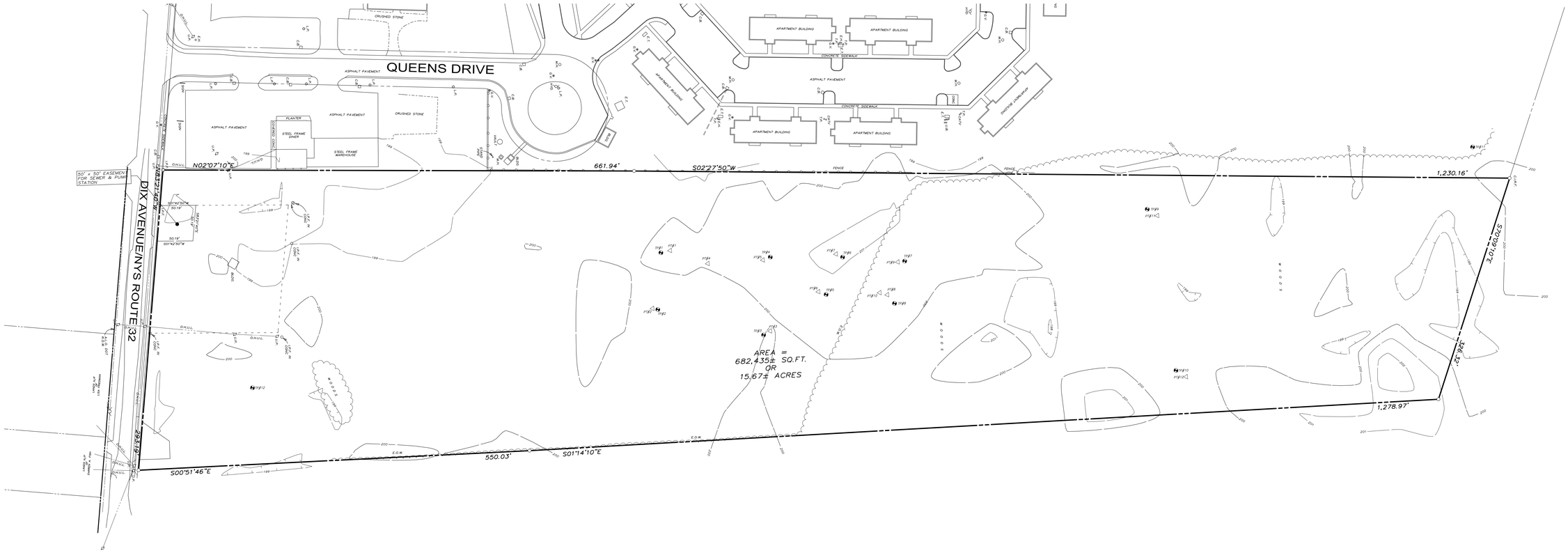
PT#11
TRIAL 1: 0:32
TRIAL 2: 0:33
TRIAL 3: 0:37
TRIAL 4: 0:38
TRIAL 5: 0:37

PT#12
TRIAL 1: 0:32
TRIAL 2: 0:47
TRIAL 3: 0:48
TRIAL 4: 0:48
TRIAL 5: 0:47



MAP REFERENCE:

1) MAP ENTITLED: "MAP OF A SURVEY MADE FOR KINGSWOOD VILLAGE, LLC"
MAP DATE: NOVEMBER 1, 2004
PREPARED BY: Van DUSEN & STEVES, LAND SURVEYORS

LEGEND:

199 DENOTES EXISTING TOPOGRAPHIC CONTOUR
BLDG. DENOTES BUILDING
CATV DENOTES CABLE TV SERVICE BOX
C.B. DENOTES CATCH BASIN
C.I.R.F. DENOTES CAPPED IRON ROD FOUND
CONC. DENOTES CONCRETE
E.H. DENOTES ELECTRIC HANDHOLE
E.O.W. DENOTES EDGE OF WOODS
E.T. DENOTES ELECTRIC TRANSFORMER
G.V. DENOTES GATE VALVE
HYD. DENOTES FIR HYDRANT
I.P.F. DENOTES IRON PIPE FOUND
L.P. DENOTES LIGHT POLE
M.H. DENOTES SANITARY MANHOLE
N/F DENOTES NOW OR FORMERLY
O.H.U.L. DENOTES OVERHEAD UTILITY LINES
T.P. DENOTES TELEPHONE PEDESTAL
U.B. DENOTES UTILITY BOX
U.P. DENOTES UTILITY POLE

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PROPOSED TOWN HOMES FOR
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1177 DIX AVE
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SHEET:
3 of 14

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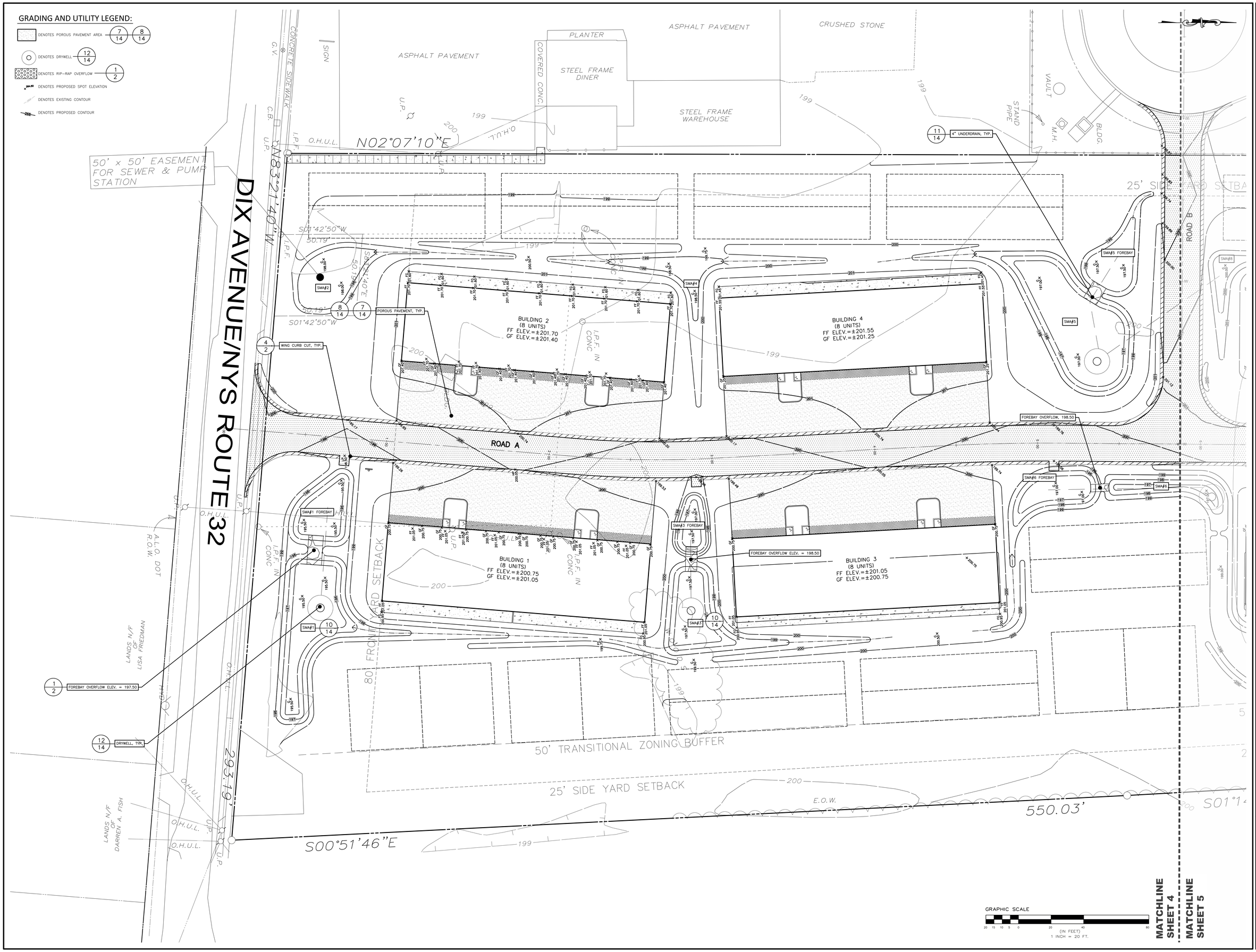
GRADING AND UTILITY LEGEND:

- DENOTES POROUS PAVEMENT AREA (7/14) (8/14)
- DENOTES DRYWELL (12/14)
- DENOTES RIP-RAP OVERFLOW (1/2)
- 204.50 DENOTES PROPOSED SPOT ELEVATION
- 198 DENOTES EXISTING CONTOUR
- 198 DENOTES PROPOSED CONTOUR



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SHEET:
4 of 14

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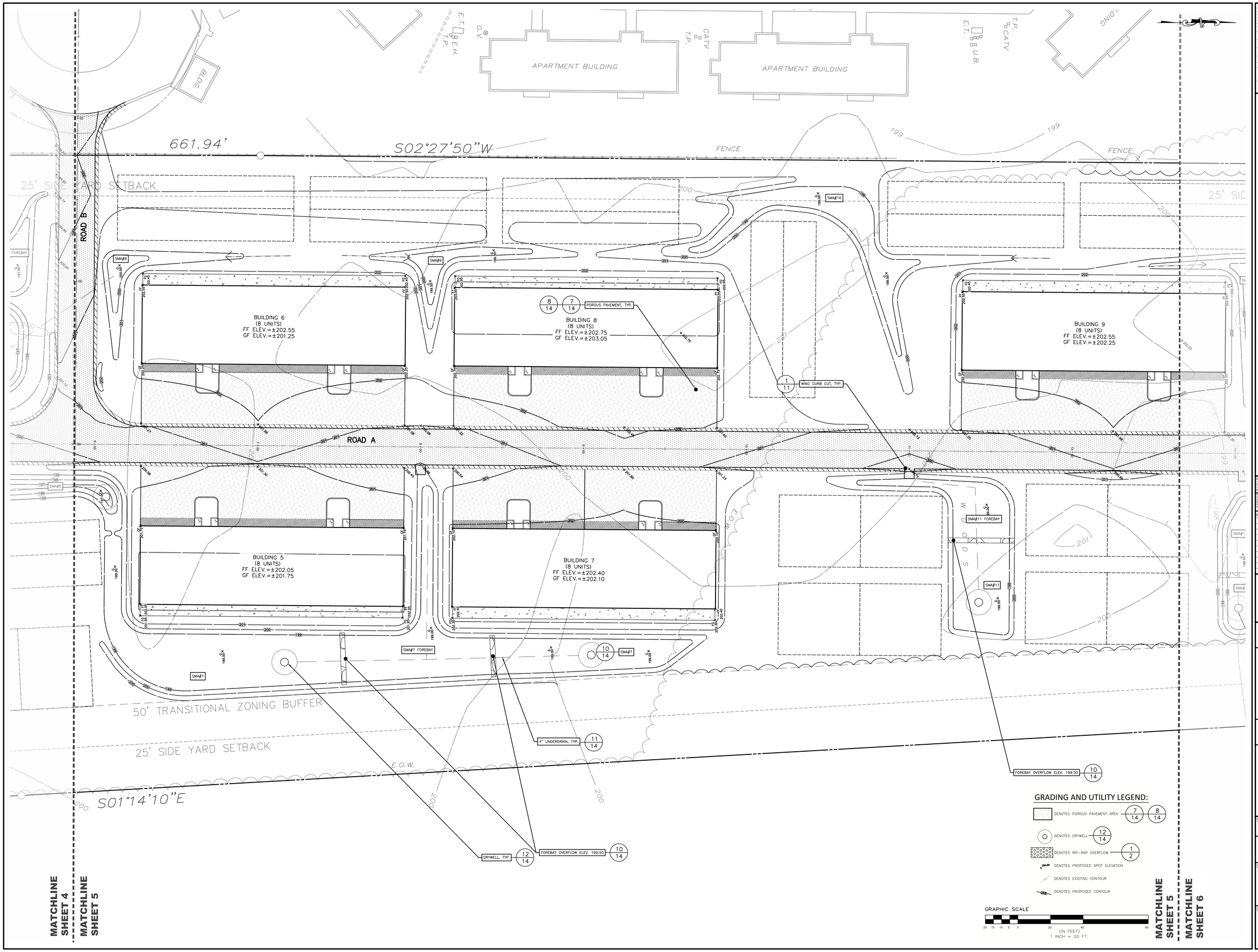

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5 of 14

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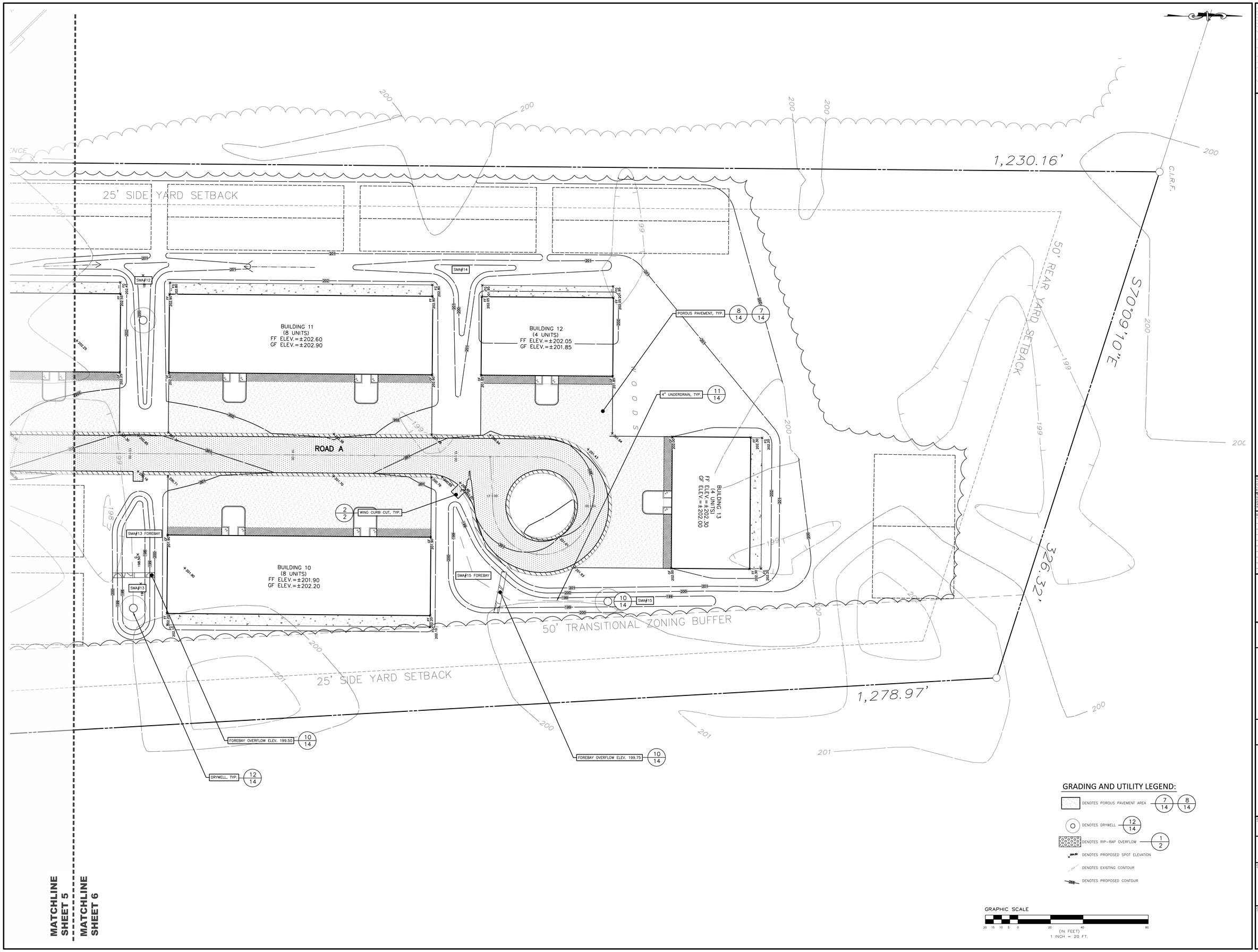

GRADING AND UTILITY LEGEND:

- DENOTES POROUS PAVEMENT AREA — 7/14, 8/14
- DENOTES DRYWELL — 12/14
- DENOTES RIP-RAP OVERFLOW — 1/2
- 194.50 DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- 203 DENOTES PROPOSED CONTOUR

GRAPHIC SCALE

20 15 10 5 0 20 40 80

(IN FEET)
1 INCH = 20 FT.

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1" = 20'

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GRADING PLAN

SHEET:
6 of 14

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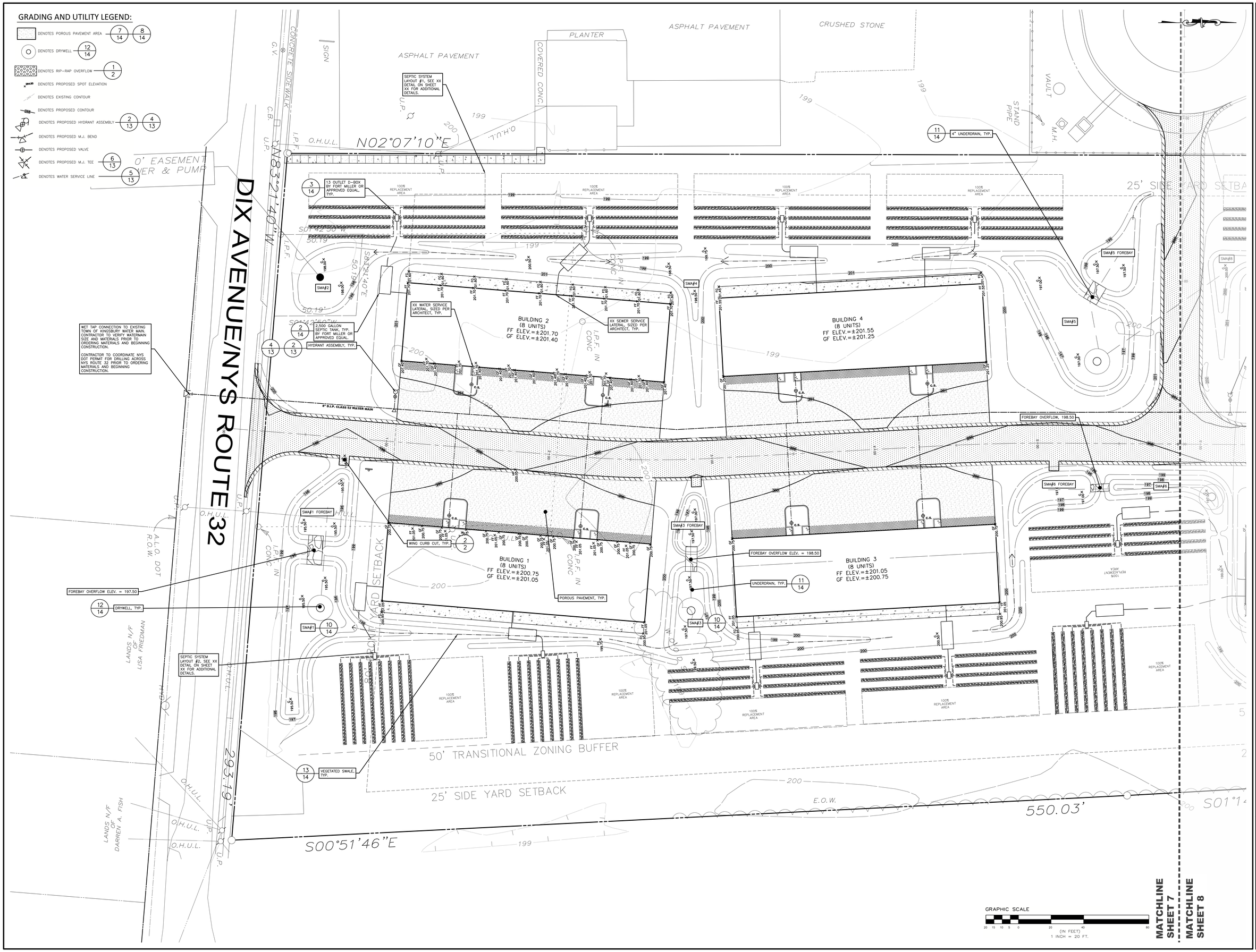
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED HYDRANT ASSEMBLY (2/13) (4/13)
- DENOTES PROPOSED M.J. BEND
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE (6/13)
- DENOTES WATER SERVICE LINE (5/13)



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WASHINGTON COUNTY, NEW YORK

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EDP PROJECT NUMBER	12594

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SCALE:
1" = 20'

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SHEET TITLE:
UTILITY PLAN

SHEET:
7 of 14

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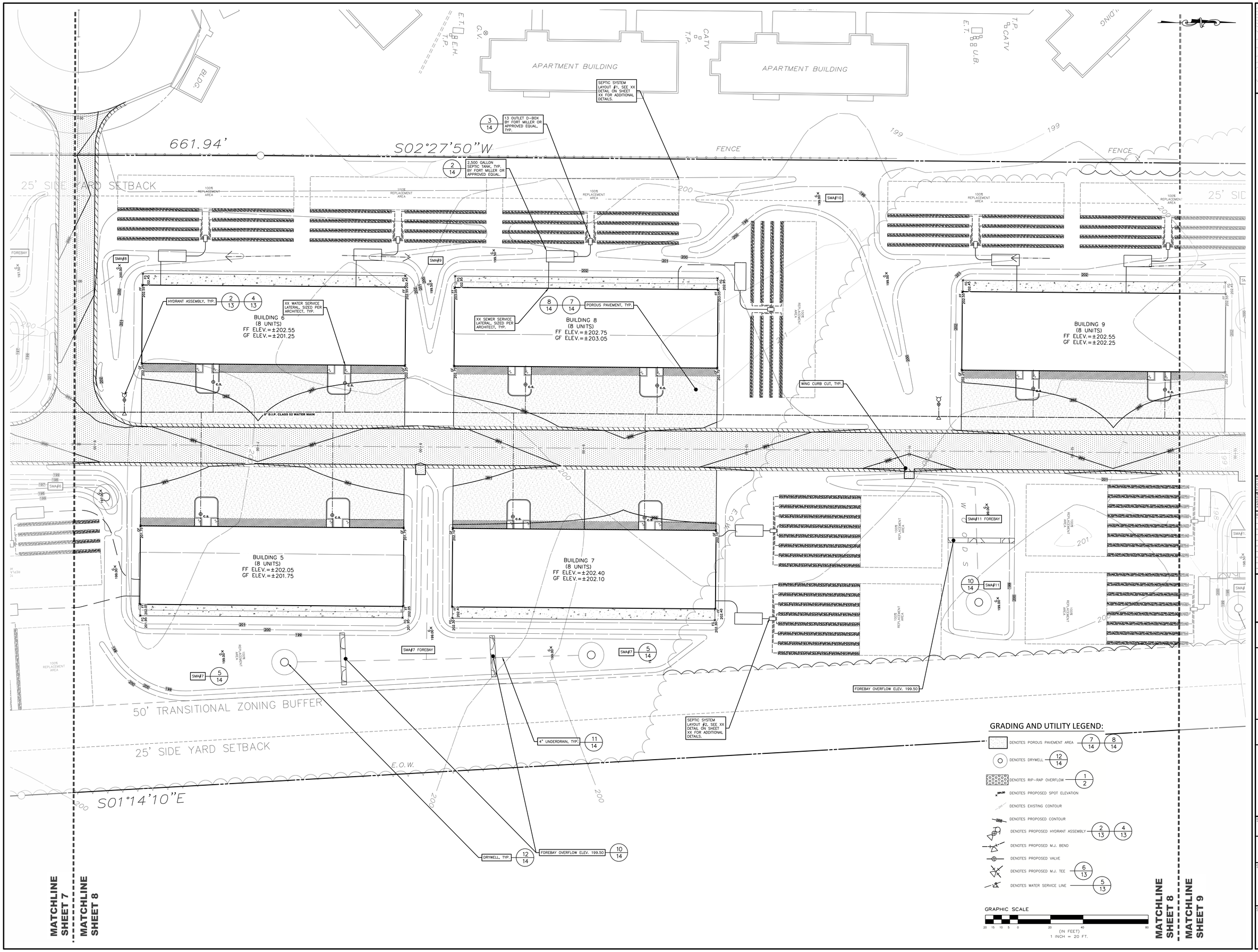

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TAX MAP No. 146.14-1-3
11/11/2020

PROPOSED TOWN HOMES FOR
DIX AVE TOWN HOME COTTAGES
SCHERMERHORN REAL ESTATE HOLDINGS, LLC

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TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

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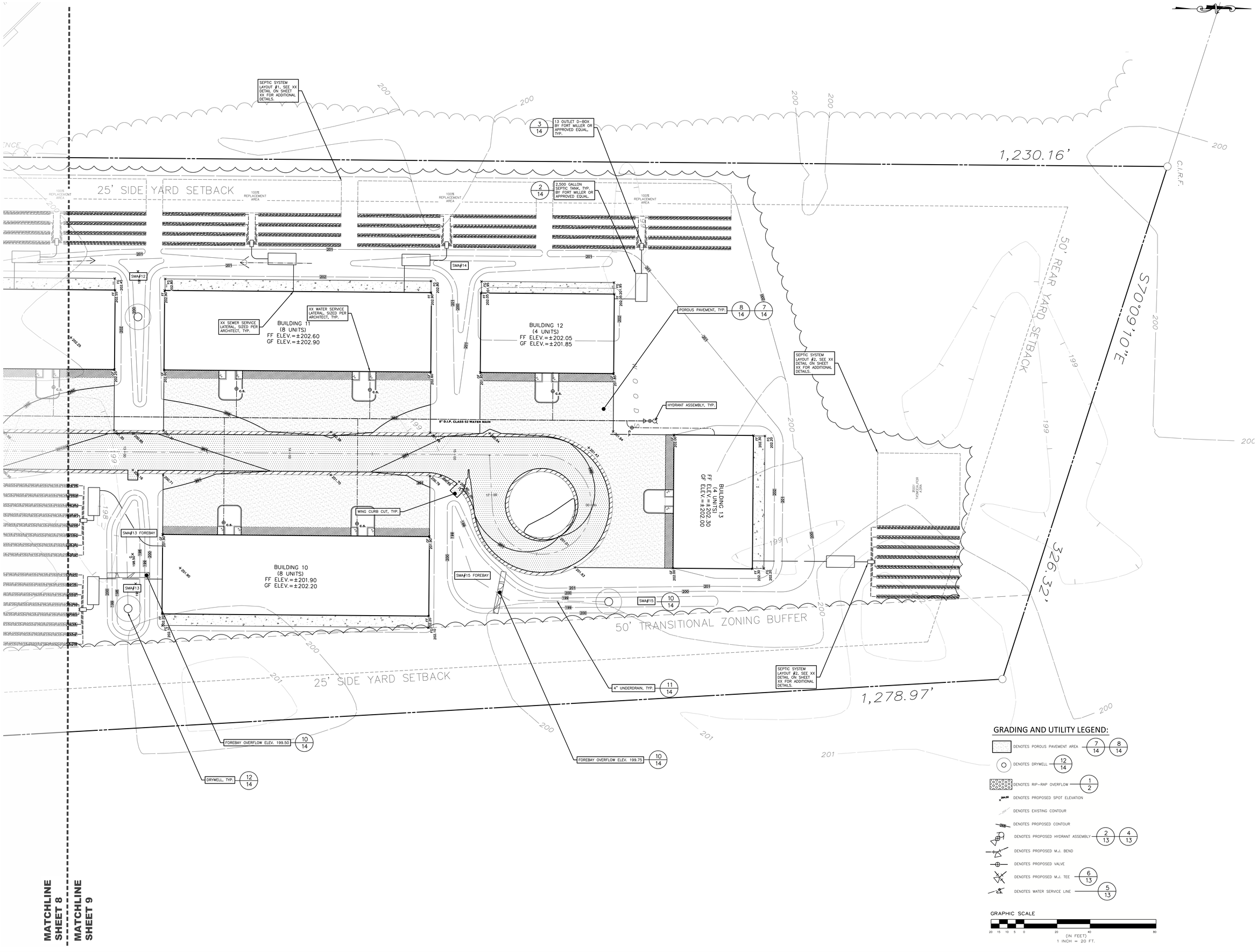

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SCHERMERHORN REAL ESTATE HOLDINGS, LLC

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SHEET:
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PLANTING SCHEDULE

KEY	COMMON	BOTANICAL	SIZE	NO.	REMARKS
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx
XX	xx	xx	xx	xx	xx

PLANTING NOTES:

1. PLANTING CONTRACTOR SHALL VERIFY FINAL SELECTION OF PLANT MATERIALS WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. ALL AREAS OF SITE WHICH ARE DISTURBED AND NOT LANDSCAPED, PAVED, SHALL BE TOPSOILED, SEEDED, AND MULCHED (MULCH – STRAW, HYDROSEED MIX, OR BIODEGRADABLE NETTING.) MIXTURES TO BE APPLIED SHALL BE DETERMINED BY OWNER'S REPRESENTATIVES. TOPSOIL TO BE 4" MINIMUM.
3. EXISTING VEGETATION SHALL REMAIN UNDISTURBED WITHIN ALL AREAS OF SITE WHICH DO NOT REQUIRE GRADING.
4. ALL PLANTING BEDS TO RECEIVE 3" MINIMUM BARK MULCH WITH FILTER FABRIC WEED CONTROL OR EQUAL.
5. THIS PLAN IS FOR PLANTING PURPOSES ONLY. REFER TO SITE PLAN FOR DETAILED GRADING AND UTILITY INFORMATION.
6. GUARANTEE:
   A. FOR A PERIOD OF TWELVE MONTHS FROM THE DATE THAT THE WORK UNDER CONTRACT IS CERTIFIED AS COMPLETE, THE CONTRACTOR SHALL:

1. GUARANTEE ALL PLANTS AND SEEDED AREAS UNDER THIS CONTRACT;
2. REMOVE AND REPLACE DURING THIS GUARANTEE PERIOD, PLANTS WHICH DIE OR ARE IN A BADLY IMPAIRED CONDITION;
3. REPLANT WITH STOCK OF SAME SIZE AND QUALITY AS ORIGINALLY SPECIFIED;
4. GUY AND MAINTAIN AS SPECIFIED HEREIN, AT NO ADDITIONAL COST.

   B. REPLACEMENTS MADE WITHIN SIX MONTHS AFTER BEGINNING OF THE "GUARANTEE PERIOD" SHALL NOT EXTEND THE "GUARANTEE PERIOD" OF THESE PARTICULAR PLANTS; THOSE REPLACEMENTS MADE SIX MONTHS OR MORE AFTER THE BEGINNING OF THE "GUARANTEE PERIOD" SHALL BE MAINTAINED AND GUARANTEED FOR A PERIOD OF SIX MONTHS FROM THE TIME OF REPLACEMENT.

7. APPLICABLE STANDARDS: "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND "STANDARDIZED PLANT NAMES" BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, ARE A PART OF THIS SPECIFICATION. ALL PLANTS SHALL BE NURSERY GROWN, NOT GATHERED IN THE FIELD.

PLANTING NOTE:

PLANTS LISTED IN THE PLANTING SCHEDULE CAN BE SUBSTITUTED FOR SIMILAR SPECIES OF THE SAME SIZE WITH THE APPROVAL OF THE OWNER/DEVELOPER AND/OR PROJECT LANDSCAPE ARCHITECT.

PLANTING BED PREPARATION NOTE:

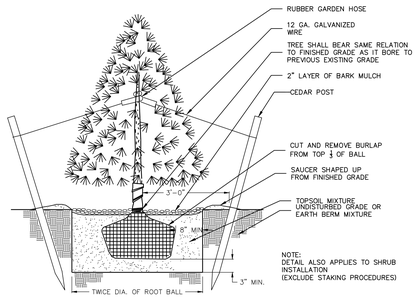
ALL PAVEMENT, AND GRAVEL BASE SHALL BE REMOVED FROM PROPOSED PLANTING BEDS AREAS. COMPACTED SUB BASE MATERIALS SHALL BE DECOMPACTED FOR A DEPTH OF 12". PLANTING BEDS SHALL BE FREE OF ROOTS TILLED TO A DEPTH 12". INCORPORATE 2" OF COMPOST INTO SOIL AND TOP DRESS WITH 3" OF HARDWOOD MULCH.

TOPSOIL NOTE:

ALL LAWN AREAS OF THE SITE SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL. ALL LANDSCAPE BEDS SHALL RECEIVE A MINIMUM OF 12" OF TOPSOIL. TOP SOIL SHALL HAVE; 2% –20% ORGANIC MATTER PH OF 6–7.6% MAXIMUM PARTICLE SIZE 1.5"

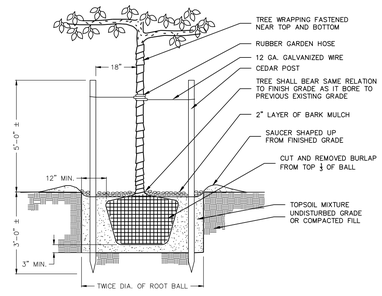
LAWN SEED MIX:

SEED LAWN AREAS WITH GRASS SEED CONTAINING A MINIMUM 20% KENTUCKY BLUE GRASS, 20% FESCUE AND A MAXIMUM OF 20% ANNUAL RYE GRASS. SEED SHALL BE APPLIED AT A RATE OF 7–10 LBS PER 1,000 SF.

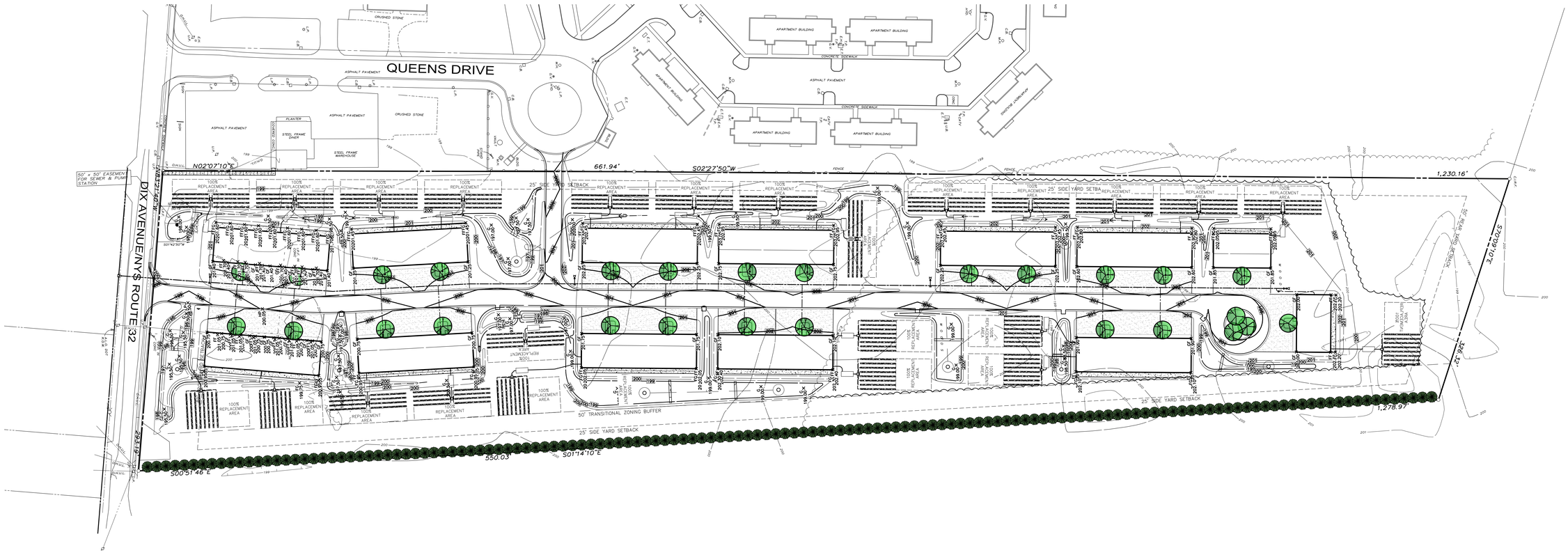


NOTE:
DETAIL ALSO APPLIES TO SHRUB INSTALLATION
(EXCLUDE STAKING PROCEDURES)

1/10 CONIFEROUS TREE
NOT TO SCALE



2/10 DECIDUOUS TREE
NOT TO SCALE



GRAPHIC SCALE
60 50 40 30 20 10 0 30 60 120 240
(IN FEET)
1 INCH = 60 FT.

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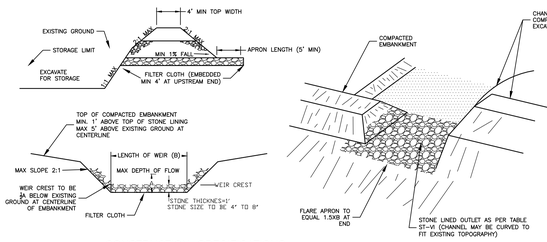


CONSTRUCTION SPECIFICATIONS

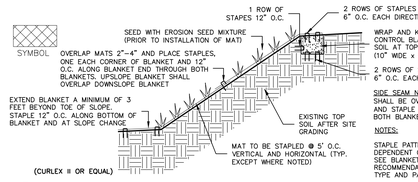
1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE 5 FEET, MEASURED AT CENTERLINE OF EMBANKMENT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER
4. EXCAVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF THE EMBANKMENT
5. ADJUSTMENTS TO THE SIZE OF THE TRAP MAY BE MADE BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL OF THE WEIR CREST.
6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO TO PLACEMENT IN STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST 1 FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNELS.
7. STONE USED UN THE OUTLET CHANNEL SHALL BE 4 TO 8 INCH RIP-RAP. TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER CLOTH SHALL BE EMBEDDED 1-FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNEL.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO $\frac{1}{2}$ THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH AN MANNER IF WILL NOT ERODE.
9. THE STRUCTURE SHALL BE REPAIRED AFTER EACH RAIN AND AS NEEDED
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER EROSION AND WATER POLLUTION ARE MINIMIZED.
11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED
12. DRAINAGE FOR THIS AREA IS LIMITED TO 15 ACRES OR LESS

DESIGN CALCULATIONS (SMA 1/SMA2)

CONTRIBUTING AREA = 8.7/5.5 ACRES
MIN SIZE = 3,600 CF/ACRE
MIN SIZE = **31,320 CF/19,800 CF**

CONTRIBUTING AREA (ACRES)	DEPTH OF CHANNEL (A) (FT)	LENGTH OF WEIR (B) (FT)
1	1.5	4.0
2	1.5	5.0
3	1.5	6.0
4	1.5	10.0
5	1.5	12.0
6	1.5	14.0
7	1.5	16.0
8	2.0	10.0
9	2.0	10.0
10	2.0	12.0

1/11 STONE OUTLET SEDIMENT TRAP
NOT TO SCALE

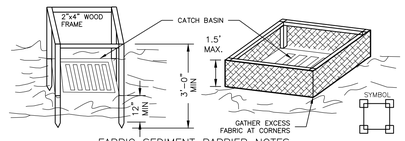


SIDE SEAM NOTE: SIDE SEAMS SHALL BE OVERLAPPED 2"-4" AND STAPLE 12" O.C. THROUGH BOTH BLANKETS

NOTES:

STAPLE PATTERNS ARE DEPENDENT ON SITE CONDITIONS. SEE BLANKET MANUFACTURER RECOMMENDATIONS FOR STAPLE TYPE AND PATTERNS.

2/11 EROSION CONTROL BLANKET
NOT TO SCALE



FABRIC SEDIMENT BARRIER NOTES

1. FOR USE DURING SUBBASE INSTALLATION AND GRADING UP TO PAVING WORK.
2. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
3. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
4. STAKE MATERIALS WILL BE STANDARD 2" X 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
5. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
6. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
7. A 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
8. MAXIMUM DRAINAGE AREA 1 ACRE

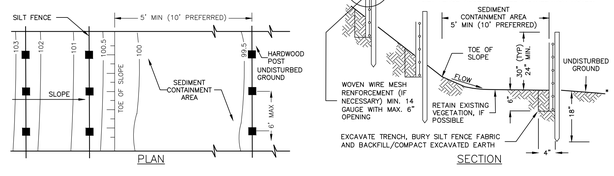
3/11 CATCH BASIN SEDIMENT BARRIER
NOT TO SCALE

SILT FENCE GENERAL NOTES:

1. SILT FENCE SHALL BE PLACED A MINIMUM OF .5 FT. FROM TOE OF SLOPE, 10 FT. PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
2. POSTS MAY BE 1.25"x1.25" (MINIMUM) HARDWOOD, TYPICALLY. FOR WIRE MESH BACK USE 2"x2" NOM. HARDWOOD, OR STEEL "T" OR "U" POSTS (1lb per lf). SILT FENCE SHALL BE WOVEN GEOTEXTILE FABRIC(GEOTEX 2130 OR EQUAL).
3. SILT FENCE ASSEMBLIES MAY HAVE 4 FT. OR 6 FT. POST SPACING, AND MAY OR MAY NOT HAVE MESH REINFORCEMENT. SENSITIVE AREAS TO BE PROTECTED MAY NEED TO BE REINFORCED BY USING HEAVY WIRE FENCING FOR ADDED SUPPORT TO PREVENT COLLAPSE.
4. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
5. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE PLACED ON A SLOPE ARE:

SLOPE STEEPNESS	MAXIMUM LENGTH (ft.)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

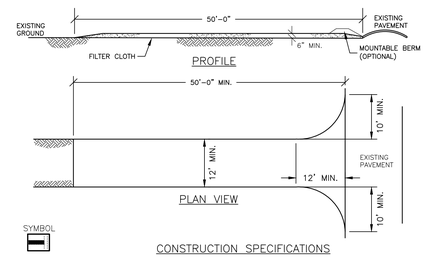
6. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ¼ ACRE PER 100 FEET OF FENCE, WITH MAXIMUM PONDING DEPTH OF 1.5 FEET BEHIND THE FENCE; AND EROSION WOULD OCCUR IN THE FORM OF SHEET EROSION; AND THERE IS NO CONCENTRATION OF WATER FLOWING TO THE BARRIER.
7. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF .5" OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
8. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-THIRD OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.



SILT FENCE INSTALLATION NOTES:

1. GEOTEXTILE FABRIC AND WOVEN WIREMESH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACES EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

4/11 SILT FENCE
NOT TO SCALE

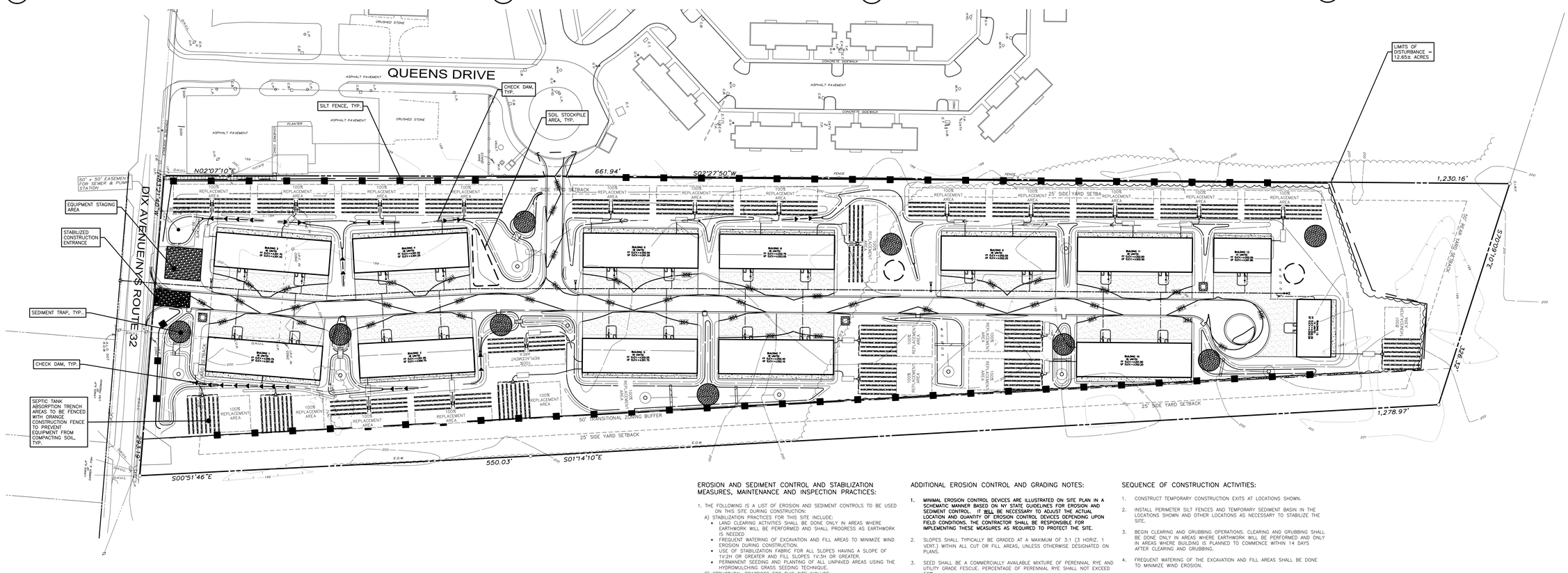


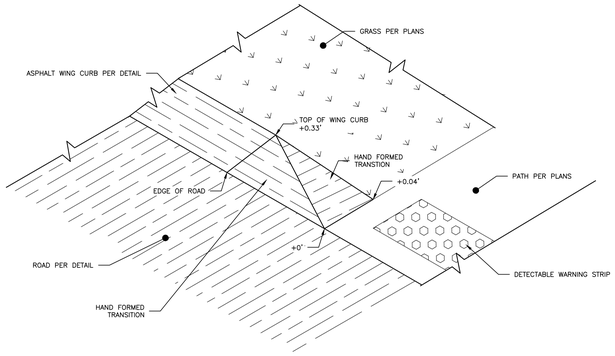
SYMBOL

CONSTRUCTION SPECIFICATIONS

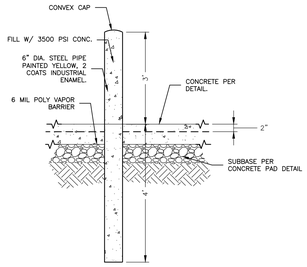
1. STONE SIZE – USE 2" CRUSHED STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS EFFECTIVE BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX(6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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.
5. WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

5/11 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

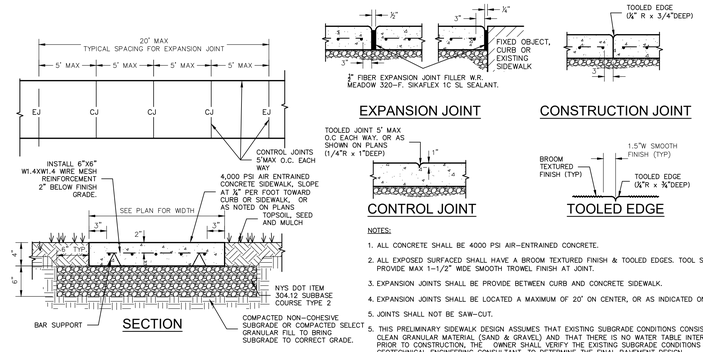




1/12 ASPHALT WING CURB TRANSITION
NOT TO SCALE



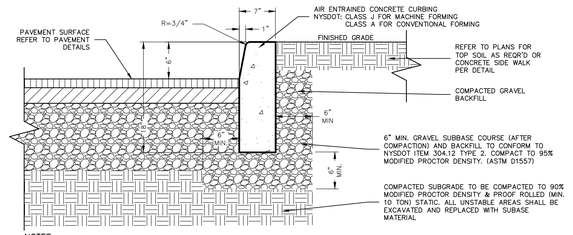
6/12 STEEL BOLLARD
NOT TO SCALE



NOTES:

1. ALL CONCRETE SHALL BE 4000 PSI AIR-ENTRAINED CONCRETE.
2. ALL EXPOSED SURFACED SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL BE PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
3. EXPANSION JOINTS SHALL BE PROVIDE BETWEEN CURB AND CONCRETE SIDEWALK.
4. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
5. JOINTS SHALL NOT BE SAW-CUT.
5. THIS PRELIMINARY SIDEWALK DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT, TO DETERMINE THE FINAL PAVEMENT DESIGN.

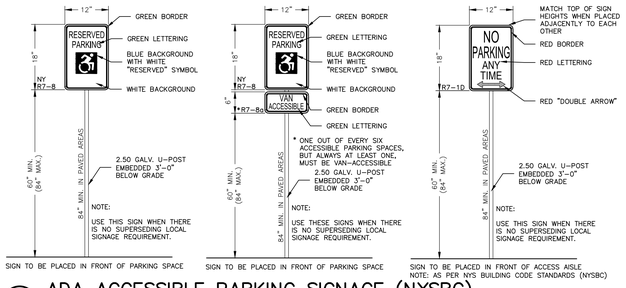
9/12 CONCRETE SIDEWALK
NOT TO SCALE



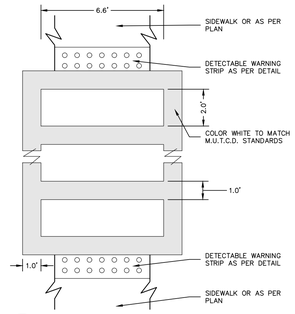
NOTES:

1. FOR CONVENTIONAL FORMING, CAST IN UNIFORM SEGMENTS (20+/- FT.), SEPARATED BY CONSTRUCTION JOINTS CAPABLE OF 1/4" EXPANSION.
2. FOR MACHINE FORMING, FORM OR SAWCUT CONTRACTION JOINTS AT 20FT. MAX. INTERVALS 1/8" TO 1/4" IN WIDTH, 1 1/2" DEEP. SAWCUT WITHIN 8 HRS. OF POUR.
3. CONTRACTOR TO SUBMIT JOINT LAYOUT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.
4. CURING TO BE DONE USING METHOD A OR B NYSDOT STD. SPECIFICATIONS SEC. 502-3.10.
5. CONSTRUCTION TO MEET NYSDOT SECTION 609 SPECIFICATIONS, ITEM 609.04.
6. THIS PRELIMINARY SIDEWALK DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT, TO DETERMINE THE FINAL PAVEMENT DESIGN.

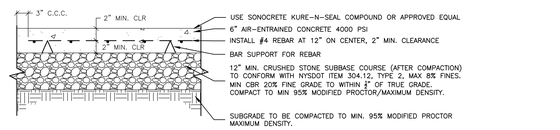
14/12 CONCRETE CURB
NOT TO SCALE



2/12 ADA ACCESSIBLE PARKING SIGNAGE (NYSBC)
NOT TO SCALE



7/12 CROSSWALK STRIPING DETAIL
NOT TO SCALE



NOTE:

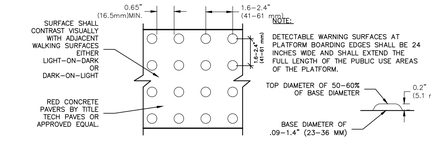
PLACEMENT AND FORMING OF ALL JOINTS SHALL BE IN CONFORMANCE WITH ACI COMMITTEE REPORT 332 R-84.

CONTRACTOR TO SUBMIT JOINT LAYOUT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.

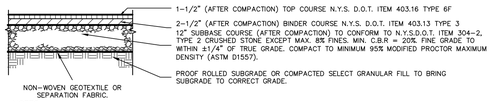
ALL EXPOSED SURFACES SHALL BE SLOPED SUFFICIENTLY TO SHED WATER (1/4" PER FOOT STANDARD) CLASS B BROOM FINISH ALIGN JOINTS WITH CURBING OR AT 5 FT. INTERVALS (SEE NOTE).

THIS PRELIMINARY PAVEMENT DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT, TO DETERMINE THE FINAL PAVEMENT DESIGN

10/12 CONCRETE SECTION
NOT TO SCALE



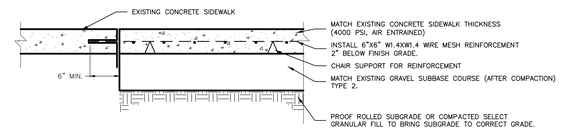
15/12 DETECTABLE WARNING STRIP
NOT TO SCALE



NOTES:

1. TACK COAT WHEN SPECIFIED OR CALLED OUT ON THESE PLANS OR WHEN PAVEMENT COURSES ARE NOT INSTALLED IMMEDIATELY AFTER ONE ANOTHER.
2. THIS PRELIMINARY PAVEMENT DESIGN ASSUMES THAT EXISTING SUBGRADE CONDITIONS CONSIST OF CLEAN GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE OWNER SHALL VERIFY THE EXISTING SUBGRADE CONDITIONS USING A GEOTECHNICAL ENGINEERING CONSULTANT, TO DETERMINE THE FINAL PAVEMENT DESIGN

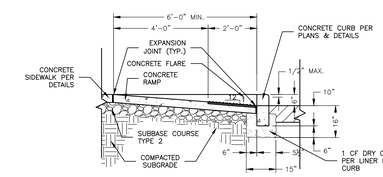
3/12 MEDIUM DUTY PAVEMENT SECTION
NOT TO SCALE

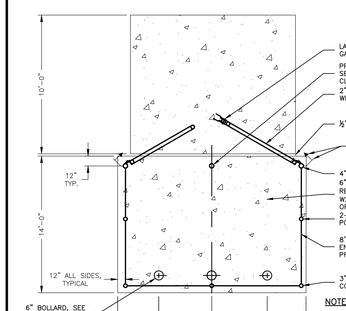


NOTES:

1. DRILL EXISTING CONCRETE AND SET A MIN OF 6" OF #4 REBAR INTO CONCRETE WITH EPOXY GROUT. REMAINING 18" OF REBAR DOWEL TO BE TIED INTO NEW CONCRETE.
2. REFER TO CONCRETE SIDEWALK DETAIL FOR SIDEWALK CONSTRUCTION DETAILS

11/12 CONCRETE SIDEWALK SECTION
NOT TO SCALE

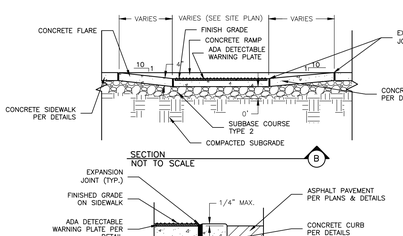


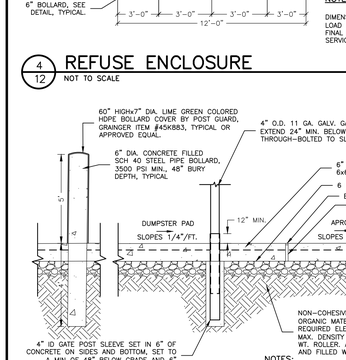


NOTES:

DIMENSIONS SHOWN ARE FOR ONE FRONT LOAD BOX OR TOP LOAD SLANT-STYLE DUMPSTER UP TO 8 CY (6'-0"W x6'6"D). FINAL DIMENSIONS TO BE CONFIRMED WITH OWNER AND SERVICE PROVIDER. DOUBLE WIDTH FOR TOW DUMPSTERS.

4/12 REFUSE ENCLOSURE
NOT TO SCALE

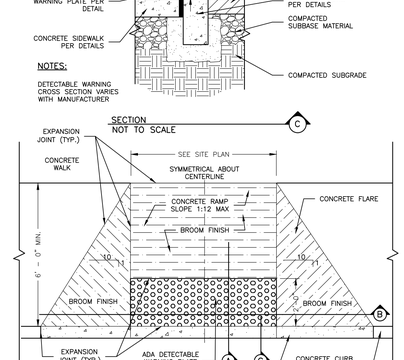




NOTES:

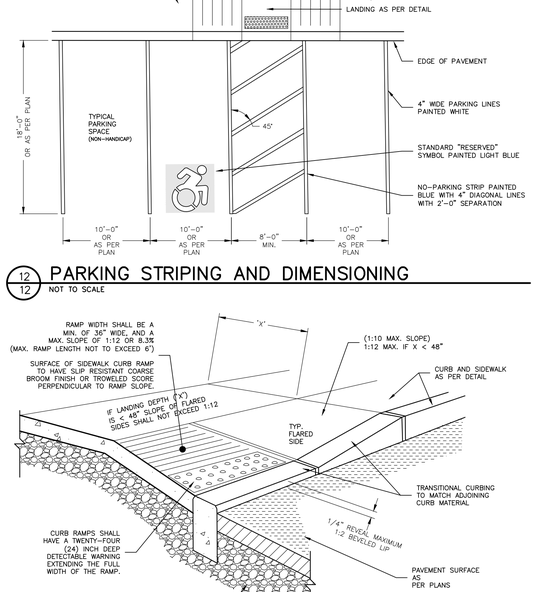
1. SEE TYPICAL SLAB DETAIL FOR ADDITIONAL SPECIFICATIONS.
2. SLAB THICKNESS 6" MIN. OR PER OWNER.
3. SURROUNDING ASPHALT PAVEMENT TO MEET FLUSH WITH CONCRETE APRON.

5/12 REFUSE ENCLOSURE SECTION
NOT TO SCALE



DETECTABLE WARNING CROSS SECTION VARIES WITH MANUFACTURER

8/12 CURB RAMP SECTION A
NOT TO SCALE



12/12 PARKING STRIPING AND DIMENSIONING
NOT TO SCALE

13/12 CURB RAMP SECTION B
NOT TO SCALE

ACCESSIBILITY NOTES:

A. GENERAL NOTES:

1. SPECIAL ATTENTION SHALL BE GIVEN TO COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, THE BUILDING CODE OF NEW YORK STATE (BCNYS), FEDERAL FAIR HOUSING ACT AND APPLICABLE LOCAL LAWS AND REGULATIONS, LATEST EDITIONS.
2. IT IS ESSENTIAL THAT CONTRACTORS ARE AWARE OF THE SITE ACCESSIBILITY REQUIREMENTS, DRAWINGS, NOTES AND DETAILS PROVIDE SLOPES/GRADES AND DIMENSIONS THAT COMPLY WITH THE 2010 ADA, BCNYS AND APPLICABLE LOCAL LAWS AND REGULATIONS, LATEST EDITIONS. IF THESE SLOPES/GRADES AND DIMENSIONS ARE NOT ACHIEVABLE, THE CONTRACTOR IS REQUIRED TO CONTACT THE SITE ENGINEER OR LANDSCAPE ARCHITECT IMMEDIATELY AND BEFORE MOVING FORWARD WITH THE WORK.
3. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT/CIVIL ENGINEER IMMEDIATELY OF ANY CONFLICT BETWEEN THESE NOTES AND DETAILS AND OTHER CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK FOR WHICH THE ALLEGED CONFLICT HAS BEEN DISCOVERED UNTIL SUCH ALLEGED CONFLICT HAS BEEN RESOLVED. NO CLAIM SHALL BE MADE BY THE CONTRACTOR FOR DELAY DAMAGES AS A RESULT OF RESOLUTION OF AN SUCH CONFLICT(S).
4. THESE ACCESSIBILITY NOTES AND DETAILS ARE INTENDED TO DEFINE SLOPE DIMENSIONAL REQUIREMENTS ONLY. REFER TO SIDEWALK, CURBING, AND PAVEMENT DETAILS FOR ADDITIONAL INFORMATION.

B. ACCESSIBLE ROUTE NOTES:

1. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS OR SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY THEY SERVE.
2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.
3. WALKING SURFACES SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.0% AND MAXIMUM CROSS SLOPE OF 2.0%.
4. ANY WALKING SURFACE WITH A RUNNING SLOPE GREATER THAN 5.0% IS A RAMP AND SHALL COMPLY WITH THE MANDATED GUIDELINES FOR RAMPS OR CURB RAMPS.
5. TRANSITIONS BETWEEN RAMPS, WALKS, LANDINGS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF 1 ABRUPT VERTICAL CHANGES 1 INCH MAXIMUM 4 VERTICAL CHANGE IN LEVEL).
6. FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
7. THE MINIMUM CLEAR WIDTH SHALL BE THIRTY-TWO (32) INCHES FOR A ROUTE SEGMENT LENGTH LESS THAN TWENTY-FOUR (24) INCHES. CONSECUTIVE SEGMENTS OF THIRTY-TWO (32) INCHES IN WIDTH MUST BE SEPARATED BY A ROUTE SEGMENT FORTY-EIGHT (48) INCHES MINIMUM IN LENGTH AND THIRTY-SIX (36) INCHES MINIMUM IN WIDTH.
8. THE MINIMUM CLEAR WIDTH SHALL BE THIRTY-SIX (36) INCHES FOR A ROUTE SEGMENT LENGTH GREATER THAN TWENTY-FOUR (24) INCHES.
9. WHERE AN ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN FORTY-EIGHT (48) INCHES IN WIDTH, CLEAR WIDTH SHALL BE FORTY-TWO (42) INCHES MINIMUM APPROACHING THE TURN, FORTY-EIGHT (48) INCHES MINIMUM DURING THE TURN, AND FORTY-TWO (42) INCHES MINIMUM. LEAVING THE TURN. THE CLEAR WIDTH APPROACHING AND LEAVING THE TURN MAY BE THIRTY-SIX (36) INCHES MINIMUM WHEN THE CLEAR WIDTH AT THE TURN IS SIXTY (60) INCHES MINIMUM.
10. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN SIXTY (60) INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF TWO HUNDRED (200) FEET MAXIMUM. PASSING SPACES SHALL BE EITHER A SIXTY (60) INCH MINIMUM BY SIXTY (60) MINIMUM SPACE; OR AN INTERSECTION OF TWO (2) WALKING SURFACES THAT PROVIDE A COMPLIANT T-SHAPED TURNING SPACE, PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND FORTY-EIGHT (48) INCHES MINIMUM BEYOND THE INTERSECTION.
11. DOORS, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 2010 ADA AND BCNYS REQUIREMENTS.
12. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST BUILDING ENTRANCE SHALL BE PROVIDED AT INACCESSIBLE BUILDING ENTRANCES.
13. WHERE POSSIBLE, DRAINAGE INLETS SHALL NOT BE LOCATED ON AN ACCESSIBLE ROUTE. IN THE EVENT THAT A DRAINAGE INLET MUST BE LOCATED ON AN ACCESSIBLE ROUTE, THE GRATE SHALL COMPLY WITH 2010 ADA REQUIREMENTS.

C. RAMP NOTES:

1. ANY PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5% SHALL BE CONSIDERED A RAMP.
2. THE MAXIMUM SLOPE FOR A RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
3. THE CLEAR WIDTH OF A RAMP RUN SHALL BE THIRTY-SIX (36) INCHES MINIMUM, WHERE HANDRAILS ARE PROVIDED ON THE RAMP RUN, THE CLEAR WIDTH SHALL BE MEASURED BETWEEN THE HANDRAILS.
4. THE RISE FOR ANY RAMP RUN SHALL BE THIRTY (30) INCHES MAXIMUM.
5. EDGE PROTECTION COMPLYING WITH 2010 ADA AND BCNYS REQUIREMENTS SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND ON EACH SIDE OR RAMP LANDINGS.
6. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 2010 ADA AND BCNYS REQUIREMENTS SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. WHERE DOORS THAT ARE SUBJECT TO LOCKING ARE ADJACENT TO A RAMP LANDING, LANDINGS SHALL BE SIZED TO PROVIDE A COMPLIANT TURNING SPACE.
7. LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF RAMPS. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 2.0% IN ANY DIRECTION. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. THE LANDING CLEAR LENGTH SHALL BE SIXTY (60) INCHES LONG MINIMUM. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING OF SIXTY (60) INCHES BY SIXTY (60) INCHES MINIMUM.
8. RAMP RUNS WITH A RISE GREATER THAN SIX (6) INCHES OR A HORIZONTAL PROJECTION GREATER THAN SEVENTY-TWO (72) INCHES SHALL HAVE HANDRAILS ON BOTH SIDES COMPLYING WITH 2010 ADA AND BCNYS REQUIREMENTS.
9. FLOOR SURFACES OF RAMPS AND LANDINGS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
10. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
11. CURB RAMPS SHALL HAVE A TWENTY-FOUR (24) INCHES DEEP DETECTABLE WARNING COMPLYING WITH 2010 ADA, EXTENDING THE FULL WIDTH OF THE RAMP. REFER TO DETECTABLE WARNING DETAILS AND NOTES FOR PLACEMENT, ORIENTATION AND NOTES.
12. FLOOR SURFACES OF CURB RAMPS SHALL BE 1 GROOVED, INCH WIDE BY INCH DEEP, ONE (1) 4 INCH CENTER TRANSVERSE TO THE RAMP.
13. WHERE PROVIDED, STOP LINES SHALL BE LOCATED IN ADVANCE OF CURB RAMP.
14. PEDESTRIAN PUSH BUTTON ACTIVATED SIGNALS SHALL BE LOCATED ADJACENT TO THE SIDEWALK AND NOT ON THE SIDEWALK.
15. WHERE PROVIDED, DRAINAGE INLETS SHALL BE LOCATED UPSTREAM OF CURB RAMPS AND NOT IN THE RAMP AREA.
16. CURB RAMP TYPE AND LOCATION ARE PER PLAN.

D. PARKING SPACE NOTES:

1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE.
2. TWO (2) ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE.
3. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE AT LEAST NINETY-SIX (96) INCHES WIDE. WHERE PARKING SPACES AND ACCESS AISLES ARE MARKED WITH LINES, THE WIDTH MEASUREMENTS SHALL BE MADE FROM CENTERLINE OF THE MARKINGS. WHERE A PARKING SPACE OR ACCESS AISLE IS NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESS AISLE, MEASUREMENT SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE FORWARD WITH THE WORK.
4. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE AND SHALL COMPLY WITH PROVISIONS FOR ACCESSIBLE ROUTES. MARKED CROSSINGS SHALL BE PROVIDED WHERE THE ACCESSIBLE ROUTE MUST CROSS VEHICULAR TRAFFIC LANES. WHERE POSSIBLE, IT IS PREFERABLE THAT THE ACCESSIBLE ROUTE NOT PASS BEHIND PARKED VEHICLES.
5. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACE THEY SERVE.
6. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.
7. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING SPACES, WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.
8. FLOOR SURFACES OF PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL BE STABLE, FIRM AND SLIP RESISTANT. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED.
9. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 2.0% IN ALL DIRECTIONS.
10. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
11. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF NINETY-EIGHT (98) INCHES MINIMUM. SIGNS SHALL BE PROVIDED AT ENTRANCES TO PARKING FACILITIES INFORMING DRIVERS OF CLEARANCES AND THE LOCATION OF VAN ACCESSIBLE PARKING SPACES
12. EACH ACCESSIBLE PARKING SPACE SHALL BE PROVIDED WITH SIGNAGE DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. EACH ACCESS AISLE SHALL B

REQUIRED AREAS (SQ. FT.) FOR THRUST BLOCKS*					
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2.0	2.8	1.5	0.8	0.4
6	4.2	5.9	3.2	1.6	0.8
8	7.2	10.1	5.5	2.8	1.4
10	10.9	15.4	8.3	4.2	2.1
12	15.4	21.8	11.8	6.0	3.0
14	20.6	29.1	15.8	8.0	4.0
16	26.8	37.9	20.5	10.4	5.2
18	33.6	47.5	25.7	13.1	6.6
20	41.2	58.2	31.5	16.1	8.1
24	58.8	83.1	45.0	22.9	11.5
30	90.5	128.0	69.2	35.3	17.7
36	129.6	183.3	99.1	50.5	25.4

* = FACTOR SAFETY OF 1.5
50% BEARING OF 3,000 PSF
225 DESIGN PRESSURE

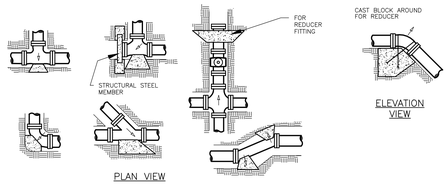
THRUST REACTIONS – R(LB) PER 100PSI INTERNAL PRESSURE					
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	1,810	2,559	1,385	706	355
6	3,739	5,288	2,862	1,459	733
8	6,433	9,097	4,923	2,510	1,261
10	9,677	13,685	7,406	3,776	1,897
12	13,685	19,353	10,474	5,340	2,683
14	18,385	26,001	14,072	7,174	3,604
16	23,779	33,628	18,199	9,278	4,661
18	29,865	42,235	22,858	11,653	5,855
20	36,644	51,822	28,046	14,298	7,183
24	52,279	73,934	40,013	20,398	10,249
30	80,425	113,738	61,554	31,380	15,766
36	115,209	162,931	88,177	44,952	22,585

THRUST BLOCK DIMENSIONS ON VERTICAL TRENCH WALL ORIGINAL GROUND (FEET)					
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	1.0X2.0	1.0X2.8	0.75X2.0	0.8X1.0	0.4X1.0
6	1.5X2.8	1.5X4.0	1.0X3.2	1.0X1.6	0.8X1.0
8	2.0X3.6	2.0X5.1	1.4X3.9	1.4X2.0	1.0X1.4
10	2.5X4.4	2.5X6.2	1.7X4.9	1.75X2.4	1.25X1.7
12	3.0X5.2	3.0X7.3	2.0X5.8	2.0X3.0	1.5X2.0
14	3.5X5.9	3.5X8.3	2.5X6.3	2.5X3.2	1.75X2.3
16	4.0X6.7	4.0X9.5	2.7X7.6	2.75X3.8	2.0X2.6
18	4.5X7.5	4.5X10.6	3.0X8.6	3.0X4.4	2.2X3.0
20	5.0X8.25	5.0X11.7	3.4X9.3	3.4X4.75	2.5X3.25
24	6.0X9.8	6.0X13.9	4.0X11.25	4.0X5.75	2.8X4.1
30	7.5X12.1	7.5X17.1	5.0X13.8	5.0X7.1	3.0X5.9
36	9.0X14.4	9.0X20.4	6.0X16.5	6.0X8.4	3.3X7.7

THRUST BLOCK NOTES:

1. *VALVES FOR TEE APPLY TO TEES, END PLUGS, CAPS, AND TAPPING SLEEVES.*
2. *REQUIRED BEARING AREAS ARE DUE TO THRUSTS CAUSED BY 150 PSI WORKING PRESSURE PLUS 50% (75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE.*
3. *REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 3000 POUNDS PER SQ. FT. IF OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE WATER SUPERINTENDENT.*
4. *IN MUCK, PEAT OR RECENTLY PLACED FILL ALL THRUSTS SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS. ALL AS REQUIRED BY THE WATER SUPERINTENDENT.*
5. *ALL THRUST BLOCKS SHALL BE CAST-IN-PLACE.*
6. *ALL DUCTILE IRON WATER MAIN SHALL BE ENCASED IN POLYETHYLENE, IF TESTING WARRANTS.*

SOIL	BEARING STRENGTH Sg (LBS/FT²)
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000



1/13 TYPICAL THRUST BLOCKS
NOT TO SCALE

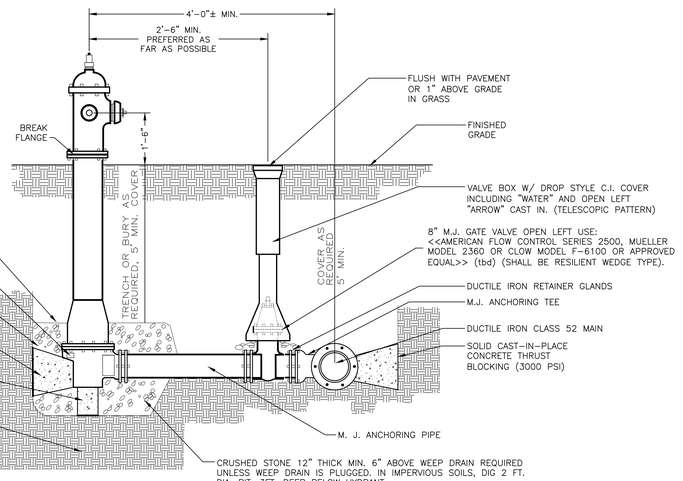
NOTE:

MEDALLION OR EDDY CLOW 80 HYDRANTS AS PER TOWN OF KINGSBURY WATER DEPARTMENT. ALL FIRE HYDRANT MODELS SHALL BE APPROVED BY TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO INSTALLATION ORDERING MATERIALS.

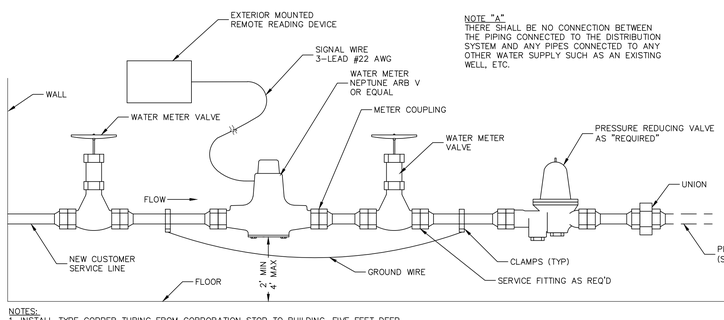
HYDRANTS SHALL BE INSTALLED TRULY VERTICAL AND PLUMB AND PAINTED WITH RUSTOLEUM POWDER COATED YELLOW AS PER WATER SUPERINTENDENT.

HYDRANTS MAY REQUIRE DRAINAGE PLUGS. THIS DETERMINATION SHALL BE MADE BY THE TOWN ENGINEER AT THE TIME OF CONSTRUCTION.

ANY REUSED HYDRANTS MUST BE CERTIFIED PRIOR TO INSTALLATION. CERTIFICATION VERIFICATION MUST BE PROVIDED TO TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO INSTALLING HYDRANTS.



2/13 TYPICAL HYDRANT PROFILE
NOT TO SCALE

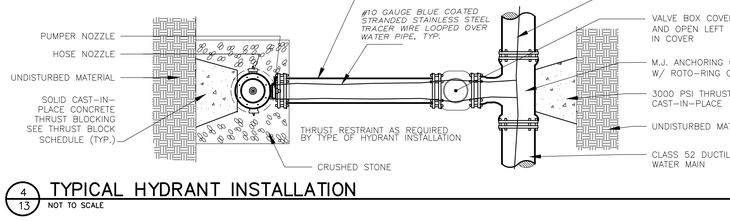


NOTE "A"
THERE SHALL BE NO CONNECTION BETWEEN THE PIPING CONNECTED TO THE DISTRIBUTION SYSTEM AND ANY PIPES CONNECTED TO ANY OTHER WATER SUPPLY SUCH AS AN EXISTING WELL, ETC.

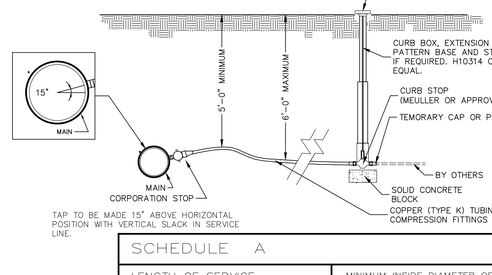
NOTES:
1. INSTALL TYPE COPPER TUBING FROM CORPORATION STOP TO BUILDING, FIVE FEET DEEP.
2. METERS ARE TO BE KEPT READILY ACCESSIBLE TO METER READERS
3. CURB BOX AND ACCESSIBILITY TO BE MAINTAINED BY PROPERTY OWNER
4. METER TO READ IN GALLONS
5. MINIMUM 4 INCHES BETWEEN WATER AND THE METER.

3/13 WATER METER INSTALLATION
NOT TO SCALE

NOTE:
ALL WATER MAIN FITTINGS SHALL USE BLUE BOLTS AND GRIP RING MECHANICAL JOINT RESTRAINTS



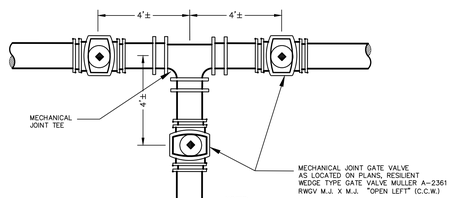
4/13 TYPICAL HYDRANT INSTALLATION
NOT TO SCALE



TAP TO BE MADE 15° ABOVE HORIZONTAL POSITION WITH VERTICAL SLACK IN SERVICE LINE.

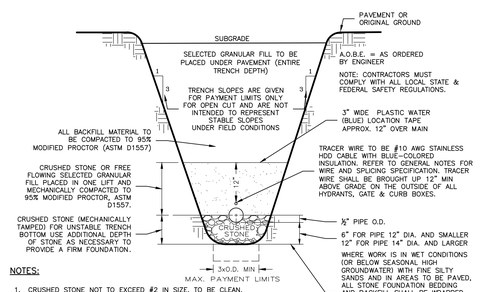
SCHEDULE A	
LENGTH OF SERVICE CONNECTION (MAIN TO BUILDING)	MINIMUM INSIDE DIAMETER OF SERVICE-COPPER TYPE K
0' – 75'	3/4" I.D.
75' – 200'	1" I.D.
OVER 200'	SIZE TO BE DETERMINED BY DEVELOPER'S PROFESSIONAL ENGINEER

5/13 TYPICAL SERVICE CONNECTION DETAIL
NOT TO SCALE



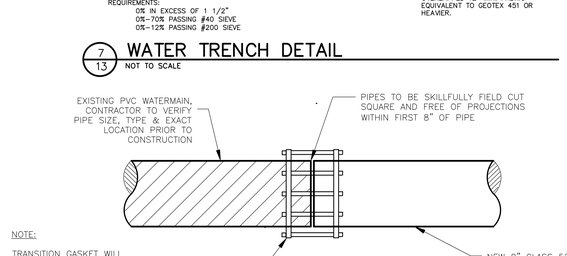
NOTES:
1. 10 GAU. STAINLESS STEEL BLUE COATED TRACER CABLE PLACED OVER PE/PVC WATER PIPES, TYP.
2. WHEN INSTALLING WATER & SERVICES, CARE MUST BE TAKEN TO AVOID CREATING HIGH POINTS WHICH MAY CAUSE AIR POCKETS. REFER TO PLANS FOR VALVE AND PIPE SIZES.

6/13 TYPICAL JUNCTION LAYOUT
NOT TO SCALE



NOTES:
1. CRUSHED STONE NOT TO EXCEED ⅜2 IN SIZE, TO BE CLEAN, SOUND AND FROM AN APPROVED NYSDOT STONE SOURCE AND/OR MEET NYSDOT STANDARD SPECIFICATIONS SECTION 703-2, COARSE AGGREGATES. GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENTS:
   0% IN EXCESS OF 1 1/2"
   0%-70% PASSING #40 SIEVE
   0%-12% PASSING #200 SIEVE

7/13 WATER TRENCH DETAIL
NOT TO SCALE



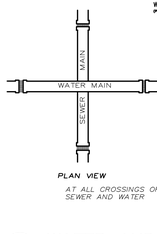
8/13 TYPICAL CONNECTION TO EXISTING WATER SYSTEM
NOT TO SCALE

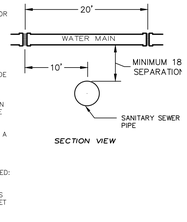
WATER AND SEWER SEPARATION:
(PUBLIC WATER SYSTEMS)

PARALLEL INSTALLATIONS: WATER MAINS SHALL LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED GRAVITY (OR FORCE) SANITARY OR STORM SEWER, MEASURED OUTSIDE TO OUTSIDE OF PIPE.

CROSSINGS: WATER MAINS CROSSING SEWERS SHALL BE INSTALLED TO PROVIDE A MINIMUM VERTICAL SEPARATIONS OF 18 INCHES, MEASURED OUTSIDE TO OUTSIDE OF PIPE, WITH A FULL 20 FOOT LENGTH OF WATER MAIN PIPE CENTERED SUCH THAT THE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING.

WHERE MINIMUM SEPARATIONS CANNOT BE MET, WITH CASE-BY-CASE APPROVAL FROM NYS DOH:
A. NEW SEWERS SHALL BE CONSTRUCTED OF MINIMUM 150 PSI PRESSURE- RATED AWWA WATER GRADE MATERIALS AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.
B. INSTALLATIONS CLOSER THAN 10 FOOT SEPARATION ONLY IF WATER MAIN IS LAID IN A SEPERATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF TEH SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE GRAVITY SEWER.
C. WHERE PRESSURE AND GRAVITY SEWERS PRE-EXIST: THE WATER MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF A MINIMUM 150 PSI PRESSURE-RATED AWWA WATER GRADE MATERIALS AND EXTEND 10 FT. MIN. ON BOTH SIDES OF THE SEWER BEING CROSSED OR, WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FEET.
D. WHERE A WATER MAIN AND/OR WATER WELLS PRE-EXIST AND A FORCE MAIN IS BEING CONSTRUCTED: THE FORCE MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF A MINIMUM 150 PSI PRESSURE-RATED AWWA WATER GRADE MATERIALS, AND EXTEND 10 FT. MIN. ON BOTH SIDES OF THE WATER MAIN BEING CROSSED; WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FEET; OR TO A POINT WHERE THE ENDS OF THE CASING PIPE ARE 150 FEET MIN. FROM ANY WATER LEVEL





9/13 WATER AND SEWER SEPARATION
NOT TO SCALE

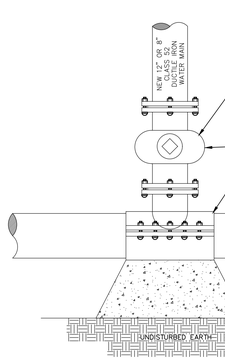
WATER NOTES:

1. ALL PIPE MATERIALS AND APPURTENANCES ARE SUBJECT TO APPROVAL BY THE OWNER AND DESIGN ENGINEER. CONTRACTOR TO CONFIRM WITH OWNER PRIOR TO ORDERING.
2. THE CONTRACTOR SHALL VERIFY SIZE, TYPE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING WATER MAIN AT THE PROPOSED CONNECTION POINT(S) PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS. CONFLICTS WITH OTHER UTILITIES TO BE CONSTRUCTED ARE TO BE AVOIDED. DISCREPANCIES OR CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. MINIMUM WATER MAIN DEPTH (COVER) TO FINISH GRADE SHALL BE 5'-0".
4. ALL FILL BELOW WATER MAIN SHALL BE COMPACTED GRANULAR MATERIAL (MIN 95% MODIFIED PROCTOR TYP).
5. ALL TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED TO PREVENT SETTLEMENT. TOP TRENCH WITH 12" MIN. APPROVED GRAVEL IN PAVED AREAS AND ALONG SIDE OF EXISTING ROAD FOR SHOULDER BASE. REPLACE DAMAGED PAVEMENTS WITH LIKE KIND AND LIKE THICKNESS.
6. WATER MAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AWWA STANDARDS: C600-05 FOR DUCTILE IRON, C900-97 OR MANUAL 23 FOR PVC AND MANUAL M55 FOR PE PIPE.
7. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA STANDARD C602.
8. ALL WATER PIPE AND APPURTENANCES SHALL BE EITHER NSF OR UL APPROVED FOR USE WITH POTABLE WATER AND SHALL BEAR THEIR RESPECTIVE SEAL.
9. MINIMUM SEPARATIONS BETWEEN WATER MAINS AND SANITARY AND STORM SEWERS ARE REQUIRED PER NYSDOH AND TEN STATE STANDARDS AT CROSSINGS, 18" MIN; WHERE PARALLEL, 10 FT. MIN. (MEASURED O.D. TO O.D.)
10. WHERE MINIMUM SEPARATIONS CANNOT BE MAINTAINED:

10.1. NEW SEWERS SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS (150 PSI-HYDROSTATIC)

10.2. WHERE SEWERS PRE-EXIST, THE WATER MAIN SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE (CONSTRUCTED OF WATER MAIN MATERIALS) AND EXTEND 10 FT. MIN ON BOTH SIDES OF SEWER BEING CROSSED OR TO A POINT WHERE LINES ARE SEPARATED 10 FT.

11. THRUST BLOCKING SHALL BE CAST IN PLACE CONCRETE AND SHALL BE SIZED AS PER THRUST BLOCK SCHEDULE THIS SHEET. SUBSTITUTE MECHANICAL RESTRAINTS MUST BE APPROVED BY THE ENGINEER.
12. ALL NEW WATER MAIN WORKS ARE TO BE HYDROSTATICALLY TESTED AT 150 PSI MIN. IN ACCORDANCE WITH AWWA STANDARDS: C600-05 SECT. 4 FOR DUCTILE IRON, MANUAL M23 FOR PVC AND MANUAL M55 FOR PE. RESULTS TO BE SUBMITTED TO OWNER. MODIFICATIONS TO EXISTING WORKS SHALL BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.
13. ALL WATER MAIN WORKS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C651-99 (SEE DISINFECTION PROCEDURE THIS SHEET) RESULTS TO BE SUBMITTED TO THE OWNER AND NYS DEPARTMENT OF HEALTH.
14. CURB BOXES ARE TO BE INSTALLED SO THAT CAPS EXTEND ABOVE FINISHED GRADE 1" AND IDENTIFIED WITH 2x4 LUMBER MARKER IN GRASSY AREAS. IN PAVED AREAS, USE TWO PIECE CURB BOX CAP (W/PENTAGONAL PLUG) AND CAST IRON CURB BOX SLEEVE TO ALLOW ADJUSTMENT OF THE GROUND KEY LID (MUELLER H-10342 OR APPROVED EQUAL).
15. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ADHERE STRICTLY TO ALL RELEVANT NYS OSHA LABOR SAFETY STANDARDS INCLUDING, BUT NOT LIMITED TO, THOSE RELATING TO CONSTRUCTION SAFETY AND TRENCH SHORING.
16. IF MAY BE NECESSARY TO "TIE BACK" OR HOLD UTILITY POLES DURING CONSTRUCTION. THIS SHOULD BE ACCOMPLISHED IN COOPERATION WITH UTILITY COMPANIES DIRECTLY BY THE CONTRACTOR.
17. THE INFORMATION REPRESENTED WITHIN THESE DOCUMENTS DOES NOT IMPLY ANY CONTRACT OR OBLIGATION FOR PERFORMING ANY OR ALL TOWN, COUNTY, OR STATE REQUIRED INSPECTIONS DURING THE COURSE OF CONSTRUCTION OR PURSUANT TO OBTAINING CERTIFICATE OF OCCUPANCY. SUCH INSPECTION SERVICES IF PERFORMED BY THIS OFFICE SHALL BE ESTABLISHED BY SEPARATE CONTRACT.
18. ALL GENERAL AND SPECIFIC NOTES AND DETAILS ON OTHER PLAN SHEETS THAT ARE PART OF THESE PLANS SHALL APPLY.
19. ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES SUCH AS GAS, WATER, TELEPHONE, POWER, CABLE TV, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.
20. AS PER NYS INDUSTRIAL CODE 53, CONTRACTOR TO CALL 1-800-962-7962 TO LOCATE BURIED OR OTHER UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.



10/13 TAPPING SADDLE AND VALVE
NOT TO SCALE

DISINFECTION: ALL POTABLE WATER PIPE SHALL BE DISINFECTED AND BACTERIOLOGICALLY VERIFIED (TESTED) PRIOR TO USE IN ACCORDANCE WITH AWWA C651-14 AS FOLLOWS:

DISINFECTION PROCEDURE:
NEW MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE CURRENT AWWA STANDARD FOR DISINFECTING WATER MAINS, ANSI/AWWA C-651-14, SECTION 4.4, CONTINUOUS FEED (THE TABLET METHOD IS NOT PERMITTED BY NYSDOH AND SHALL NOT BE USED). THE SLUG METHOD, SECTION 4.5, MAY BE USED WHEN APPROVED BY THE ENGINEER. SPRAY OR SWAB, PER PARAGRAPH 4.11.3.2, WHEN CUTTING INTO OR REPAIRING EXISTING MAINS. REQUIRED STEPS ARE:

1. WORK CLEAN: PREVENT CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE, CONSTRUCTION, OR REPAIR.
2. PREVENT BACKFLOW: PROTECT THE EXISTING DISTRIBUTION SYSTEM FROM ANY POTENTIAL BACKFLOW CAUSED BY HYDROSTATIC PRESSURE TESTING AND DISINFECTION PROCEDURES. THE SUPPLY VALVE SHALL BE KEPT CLOSED AT ALL TIMES, EXCEPT DURING FLUSHING AND DISINFECTANT FEED OPERATIONS.
3. PRE-FLUSH:
   A. FILL THE WATER MAIN AND ELIMINATE ALL AIR POCKETS.
   B. FLUSH THE WATER MAIN AT A VELOCITY NOT LESS THAN 3.0 FT/SEC TO REMOVE PARTICULATES.
4. DOSE CHLORINE (CONTINUOUS METHOD):
   A. INSTALL A TEST TAP NOT MORE THAN 10 FT. DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN.
   B. TO WATER ENTERING THE NEW MAIN, FEED A DOSE OF CHLORINE AT A CONSTANT RATE SUCH THAT THE WATER SHALL HAVE A RESIDUAL NOT LESS THAN 25 MG/L OF FREE CHLORINE. VERIFY CHLORINE CONCENTRATIONS AT ALL HYDRANTS, TAPS, AND SERVICE LATERALS. DOSING SHALL CONTINUE UNTIL HEAVILY CHLORINATED WATER IS CONTINUOUS THROUGHOUT THE NEW MAIN AND ALL VALVES AND HYDRANTS HAVE BEEN OPERATED TO PROVIDE CHLORINE CONTACT.
5. CONTACT TIME: AFTER A 24-HOUR MINIMUM RETENTION PERIOD, THE TREATED WATER SHALL HAVE A RESIDUAL OF NOT LESS THAN 10 MG/L OF FREE CHLORINE. VERIFY CHLORINE CONCENTRATIONS AT ALL HYDRANTS, TAPS, AND SERVICE LATERALS. REPEAT STEP 4.B. IF RESIDUAL IS LESS THAN 10 MG/L.
6. FLUSH/ NEUTRALIZE: FLUSH THE HEAVILY CHLORINATED WATER FROM THE MAIN UNTIL A RESIDUAL OF NOT MORE THAN 1.0 MG/L REMAINS. APPLY A NEUTRALIZING CHEMICAL TO ELIMINATE THE RESIDUAL CHLORINE IF THERE IS ANY POSSIBILITY THAT HEAVILY CHLORINATED WATER DISCHARGE WILL CAUSE DAMAGE TO THE ENVIRONMENT.
7. BACTERIOLOGICAL VERIFICATION PER SECTION 5.1: TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN FROM THE SAME SAMPLING SITES, A MINIMUM OF 16 HOURS APART, SHALL BE COLLECTED FROM THE NEW WORKS AS FOLLOWS: ONE SET PER 1200 LF OF NEW MAIN PLUS ONE SET FROM THE END-OF-THE-LINE AND ONE SET FROM EACH BRANCH +AT A MINIMUM. EACH SAMPLE SHALL BE TESTED FOR BOTH HPC (HETEROTROPHIC PLATE COUNT) AND TOTAL COLIFORM (TC). THE HPC TEST IS WAIVED FOR THE REPEAT SAMPLES IF THE INITIAL RESULTS ARE LESS THAN 500 CFU/ml. WHEN HPC RESULTS EXCEED 500 CFU/ml, THE WORKS SHALL BE FLUSHED AND SAMPLED UNTIL NO COLIFORM ARE PRESENT AND THE HPC IS LESS THAN 500 CFU/ml. IF REPEAT SAMPLES FAIL THE MAIN SHALL BE RECHLORINATED, FLUSHED AND SAMPLED UNTIL SATISFACTORY RESULTS ARE OBTAINED. ALL TEST RESULTS SHALL BE FURNISHED TO THE ENGINEER.

GENERAL NOTES:

THE ENVIRONMENTAL DESIGN PARTNERSHIP IS NOT RESPONSIBLE FOR ANY CONSTRUCTION WORK PERFORMED PRIOR TO FINAL APPROVAL OF ALL PLANS AND SECURING OF ALL PERMITS AND FILING OF ALL MAPS.

CONTRACTOR TO ARRANGE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL DESIGN PARTNERSHIP AND MUNICIPALITY PRIOR TO CONSTRUCTION.

FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP AND THE MUNICIPALITY'S ENGINEER PRIOR TO CONSTRUCTION.

CONTRACTOR IS TO VERIFY THAT ALL NECESSARY WORK PERMITS AND EASEMENTS ARE IN PLACE PRIOR TO COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND TAKE ALL SPECIAL TEMPORARY AND PERMANENT PRECAUTIONS NECESSARY TO ENSURE A STABLE AND SECURE JOB.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY TOWN, COUNTY OR STATE HIGHWAY CUT PERMITS.

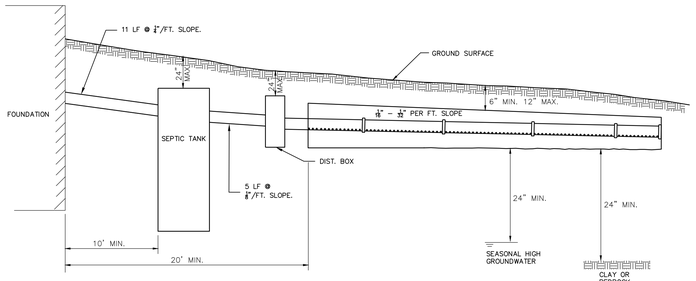
THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND EASEMENTS PRIOR TO CONSTRUCTION AND BECOME FAMILIAR WITH THE CONDITIONS OF EACH PERMIT.

THE CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS, AND DRIVEWAYS.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RIGHT-OF-WAY PROPERTY LINES PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES SUCH AS GAS, POWER, TELEPHONE, CABLE TV, WATER, SEWER, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.

AS PER NYS INDUSTRIAL CODE 53: CONTRACTOR TO CALL D



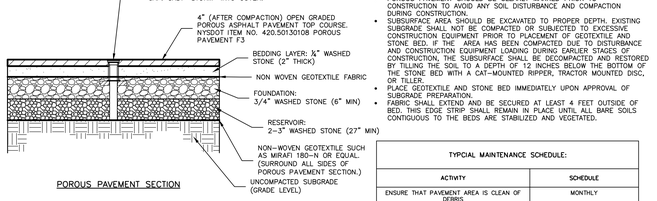
1/14 TYPICAL SYSTEM PROFILE
NOT TO SCALE

REQUIRED INSPECTIONS:

GENERAL: THE CONTRACTOR SHALL MAINTAIN COMMUNICATION WITH THE ENGINEER OF RECORD THROUGHOUT CONSTRUCTION OF THIS FACILITY.

ENGINEER'S INSPECTIONS:

1. PRIOR TO COMMENCEMENT OF WORK; PRE-CONSTRUCTION MEETING.
2. DURING PLOWING OF EXISTING SURFACE.
3. DURING PLACEMENT OF FILL MATERIAL, INCLUDING THE WITNESSING OF ALL PERCOLATION PERFORMED DURING FILL OPERATIONS.
4. DURING INSTALLATION OF DISTRIBUTION NETWORK AND ABSORPTION TRENCHES (AFTER APPROVAL OF IN-PLACE FILL)
5. DURING ADJUSTING OF SPEED LEVELERS IN DISTRIBUTION BOX.
6. DURING INSTALLATION OF SEPTIC TANK AND PRIOR TO BACKFILLING.
7. DURING INSTALLATION OF PUMP STATION, FORCE MAIN, AND ALL APPURTENANCES.
8. PRIOR TO BACKFILLING OF BUILDING SEWER TO SEPTIC TANK. EFFLUENT PIPE (FROM SEPTIC TANK TO P.S.) VENT PIPE
9. DURING INSTALLATION OF TOPSOIL.
10. DURING PUMP STATION START-UP.
11. FINAL COMPLETION



POROUS PAVEMENT SECTION

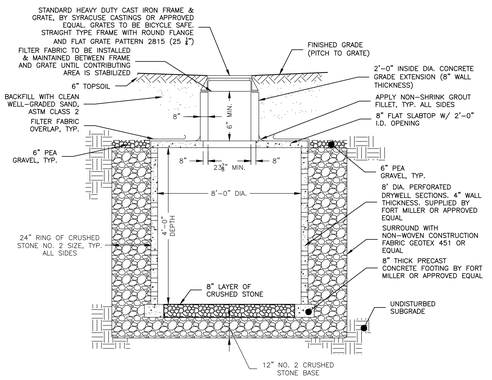
INSTALLATION GUIDELINES

- POROUS PAVEMENT AND ASSOCIATED SUBBASE SHOULD BE INSTALLED TOWARD THE END ON THE CONSTRUCTION PERIOD. UPSTEAM CONSTRUCTION SHOULD BE COMPLETED AND STABILIZED PRIOR TO CONNECTION TO POROUS PAVEMENT
- POROUS PAVEMENT SHOULD BE CLEARLY MARKED PRIOR TO CONSTRUCTION TO AVOID ANY SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION.
- SUBSURFACE AREA SHOULD BE EXCAVATED TO PROPER DEPTH. EXISTING SUBGRADE SHALL NOT BE COMPACTED OR SUBJECTED TO EXCESSIVE CONSTRUCTION EQUIPMENT PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE BED. IF THE AREA HAS BEEN COMPACTED DUE TO DISTURBANCE AND CONSTRUCTION EQUIPMENT LOADING DURING EARLIER STAGES OF CONSTRUCTION, THE SUBGRADE SHALL BE DECOMPACTED AND RESTORED BY TILLING THE SOIL TO A DEPTH OF 12 INCHES BELOW THE BOTTOM OF THE STONE BED WITH A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER.
- PLACE GEOTEXTILE AND STONE BED IMMEDIATELY UPON APPROVAL OF SUBGRADE PREPARATION.
- FABRIC SHALL EXTEND AND BE SECURED AT LEAST 4 FEET OUTSIDE OF THIS BED. EDGE STRIP SHALL REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO THE BEDS ARE STABILIZED AND VEGETATED.

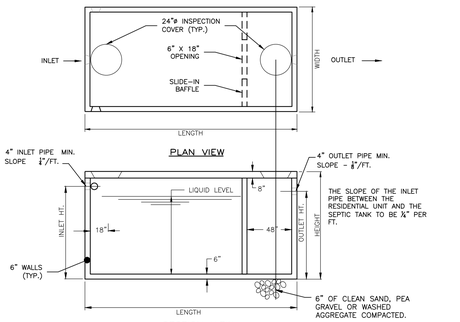
TYPICAL MAINTENANCE SCHEDULE:

ACTIVITY	SCHEDULE
ENSURE THAT PAVEMENT AREA IS CLEAN OF DEBRIS	MONTHLY
ENSURE THAT AREA DEWATERS BETWEEN STORMS	MONTHLY AND AFTER STORMS >0.5"
ENSURE THAT THE AREA IS CLEAN OF SEDIMENTS	MONTHLY
MOW UPLAND AND ADJACENT AREAS, AND SEED BARE AREAS	AS NEEDED
VACUUM SWEEP FREQUENTLY TO KEEP SURFACE FREE OF SEDIMENTS	TYPICALLY 3 TO 4 TIMES A YEAR
INSPECT THE SURFACE FOR DETERIORATION OR SPALLING	ANNUAL

7/14 POROUS PAVEMENT
NOT TO SCALE



12/14 PRECAST CONCRETE DRYWELL
NOT TO SCALE



NOTES:
1. SEPTIC TANK TO BE PRE-CAST CONCRETE, AS MANUFACTURED BY FORT MILLER OR EQUAL.
2. CONTRACTOR TO PROVIDE SANITARY TEES IN SEPTIC TANK. SEE CONSTRUCTION NOTES.
3. HIGH DENSITY POLYETHYLENE PIPE SEALS PROVIDED AT ALL PIPE CONNECTIONS SHOWN.

CONCRETE: 4000PSI
REINFORCEMENT: ASTM A615-GRADE 60
ENTRAINED AIR: 5.0%-9.0%
MEETS ASTM C890

SIZE GALLONS	OUTSIDE LENGTH	OUTSIDE WIDTH	OUTSIDE HEIGHT	LIQUID LEVEL	INLET HEIGHT	OUTLET HEIGHT	WEIGHTS, LBS TOP	BOTTOM	BAFFLE	TOTAL
2,500	17'-0"	7'-0"	6'-11"	4'-9"	5'-9"	5'-6"	16,000	16,320	1,605	33,925

2/14 2500 GAL HEAVY DUTY SEPTIC TANK
NOT TO SCALE

CONVENTIONAL SEPTIC SYSTEM DESIGN NOTES:

HYDRAULIC LOADING: 4 UNIT APARTMENT BUILDING
NUMBER OF BEDROOMS PER UNIT = 2
TOTAL NUMBER OF BEDROOMS PER BUILDING = 8
FLOW RATE = 110 GPD X 8 UNITS
DESIGN FLOW RATE = 880 GPD

HYDRAULIC LOADING: 8 UNIT APARTMENT BUILDING
NUMBER OF BEDROOMS PER UNIT = 2
TOTAL NUMBER OF BEDROOMS PER BUILDING = 16
FLOW RATE = 110 GPD X 16 UNITS
DESIGN FLOW RATE = 1,760 GPD

NOTE: SITE INSPECTION BY THE ENVIRONMENTAL DESIGN PARTNERSHIP (EDP) ON DECEMBER 5, 2014 AND ON OCTOBER 14, 2020 NOTED SEASONAL HIGH WATER THROUGHOUT THE SITE BETWEEN 48 AND 60 INCHES BELOW THE SURFACE. THE TOP 24 INCHES OF THE SOIL PROFILE HAS A PERCOLATION RATE OF APPROXIMATELY ONE MINUTE/SECOND, THEREFORE, CONVENTIONAL SYSTEMS HAVE BEEN SELECTED FOR THIS SITE.

SEPTIC TANK SIZE:
USE 2,500 GALLON TANK BASED ON MIN TANK CAPACITY FROM "...RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMS, DESIGN HANDBOOK", BY NEW YORK STATE DEPARTMENT OF HEALTH BUREAU OF WATER SUPPLY PROTECTION, DATED 2012, TBE 3.

TABLE 3: MINIMUM SEPTIC TANK CAPABILITIES
6 BEDROOMS – MINIMUM SEPTIC TANK CAPACITY = 1750 GALLONS, ADD 250 GALLONS PER EACH ADDITIONAL BEDROOM.
PROPOSED 8 BEDROOMS
1750 GALLONS + 2 X 250 GALLONS = 2250 GALLONS
PROPOSED 2,500 GALLON SEPTIC TANK BY FORT MILLER

TABLE 3: MINIMUM LIQUID SURFACE AREA:
6 BEDROOMS – MINIMUM SEPTIC TANK LIQUID SURFACE AREA = 47 FT^2; ADD 7 SQUARE FEET OF SURFACE AREA FOR EACH ADDITIONAL BEDROOM
PROPOSED 8 BEDROOMS
47 FT^2 + 7 FT^2 * 2 = 61 FT^2
APPROXIMATE LIQUID SURFACE AREA OF 2,500 GALLON FORT MILLER TANK = ±78.0 FT^2

PERCOLATION RATE:
AS DETERMINED IN THE FIELD BY EDP ON XX, XX, 2021, THE STABILIZED PERCOLATION RATE WAS FOUND TO BE 1 MINUTE PER INCH.

MINIMUM BASAL AREA REQUIRED:
880 GPD/1.2 GPD/SF = ±734 SQUARE FEET

LENGTH OF ABSORPTION TRENCHES REQUIRED:
APPLICATION RATE = 1.2 GPD/SF
(EXISTING SOIL HAS APPROXIMATELY 1 MINUTE PERCOLATION RATE)
ABSORPTION AREA REQUIRED = 880 GPD / 1.2 GPD/SF = 734± SF
PROPOSED TRENCH WIDTH= 2 FT
ABSORPTION TRENCH LENGTH REQUIRED = 734± SF/2 FT = 367± LF
USE EIGHT (8) TRENCHES AT 50 LF EACH (400 LF)

DOSING REQUIREMENTS:
ACCORDING TO SECTION 8.6 OF THE "...RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMS, DESIGN HANDBOOK", BY NEW YORK STATE DEPARTMENT OF HEALTH BUREAU OF WATER SUPPLY PROTECTION, DATED 2012, "...DOSING IS REQUIRED FOR CONVENTIONAL ABSORPTION AREAS THAT EXCEED A TOTAL ABSORPTION TRENCH LENGTH OF 500 FEET."

THE TOTAL PROPOSED ABSORTPION TRENCH LENGTH PER SYSTEM IS 400 FEET; THEREFORE, DOSING IS NOT REQUIRED.

DISTRIBUTION NETWORK PLACEMENT:

A. INSTALL THE DISTRIBUTION BOX ON 6-INCH MIN. PEA STONE TO ELEVATION INDICATED ON THE PROFILE.
B. INSTALL DISTRIBUTION LATERALS (SOLID 4-INCH DIA. GASKETED PVC SDR-35) TO EACH PROPOSED ABSORPTION TRENCH TO THE ELEVATIONS SPECIFIED ON THE PROFILE. LATERALS SHALL BE PLACED ON COMPACTED OR UNDISTURBED FILL EACH UNIFORMLY SLOPED TO IT'S RESPECTIVE ABSORPTION TRENCH. BED AND COMPACT THE HAUNCHING OF EACH LINE WITH FILL MATERIAL BY EITHER, "WALKING-IN" OR TAMPING WITH A 2" x 6" BOARD OR SIMILAR TOOL. COVER LATERALS WITH FILL MATERIAL TO THE REQUIRED ELEVATION AND MECHANICALLY COMPACT WITH A PLATE TAMPER TO SECURE THEM IN PLACE.
C. INSTALL SPEED LEVELERS ON DISTRIBUTION BOX OUTLET LATERAL PIPES. USING WATER, ADJUST UNTIL ECCENTRIC OPENING FOR ALL OUTLETS ARE AT THE SAME LEVEL.
D. ONE ABSORPTION TRENCH AT A TIME:
D.1. START AT ONE OF THE OUTERMOST TRENCHES, EXCAVATE 24-INCH WIDE LEVEL TRENCH TO THE ELEVATION INDICATED ON THE PROFILES AND RAKE THE TRENCH BOTTOM TO FLATTEN.
D.2. PLACE 6-INCH MIN. DEPTH OF COARSE AGGREGATE (SOUND NO. 2 CRUSHED STONE, 3/4" - 1 1/2" SIZE) IN EACH TRENCH. GRADE AGGREGATE ALONG THE LENGTH OF THE TRENCH TO THE REQUIRED SLOPE, 1/4" MIN./ 1/8" MAX., (0.25% TO 0.5%). THE DOWNSTREAM END OF EACH TRENCH SHALL HAVE A 6-INCH MIN. DEPTH OF AGGREGATE AND THE DEPTH WILL GRADUALLY INCREASE TOWARD THE INLET END AS DETERMINED BY THE PIPE SLOPE AND TRENCH LENGTH.
D.3. ASSEMBLE PERFORATED PIPE (NON-GASKETED 4-INCH PVC SDR-35) ON THE GRADED AGGREGATE BED TO THE SPECIFIED LENGTH, WITH PERFORATIONS DOWNWARD. INSTALL A CAP ON THE DOWNSTREAM END. CAREFULLY PLACE ADDITIONAL AGGREGATE OVER PIPE TO BED AND COVER THE PIPE (2-INCH MIN.) WHILE MAINTAINING THE SLOPE AND ROUNDNESS OF THE PIPE. COVER THE ENTIRE STONE SURFACE WITH NON-WOVEN CONSTRUCTION FABRIC AS SUCH AS TERRATEX NO. 4 OR APPROVED EQUAL.
D.4. BACKFILL EACH COMPLETED TRENCH WITH THE MATERIAL EXCAVATED FROM THE NEXT ADJACENT TRENCH BEING CONSTRUCTED. BACKFILL THE LAST TRENCH CONSTRUCTED WITH THE MATERIAL EXCAVATED FROM THE FIRST BY PUSHING WITH A SMALL TRACK-TYPE TRACTOR AND SHAPE FIELD TO THE FINAL FILL GRADE AS INDICATED ON THE PROFILE.
D.5. COVER THE ENTIRE FIELD, INCLUDING TAPERED SLOPES, WITH MIN. 6-INCHES OF TOPSOIL. THE TOPSOIL SHALL BE GRANULAR (NOT CLAYEY) AND MEET NYS DOT SPECIFICATIONS FOR TOPSOIL. BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION
D.6. PLANT GRASS SEED (CONSERVATION MIX UNLESS SPECIFIED OTHERWISE BY OWNER) AND MULCH ENTIRE AREA OF FILL. MAINTAIN UNTIL SUFFICIENT VEGETATION IS ESTABLISHED TO PREVENT WASHING OUT OF TOPSOIL.

POROUS PAVEMENT SPECIFICATIONS:

ALL POROUS ASPHALT PAVEMENT SHALL MEET THE SPECIFICATIONS FOR NYSDOT ITEM NO. 420.50130108.

MATERIALS:
THE MATERIALS AND COMPOSITION FOR THE POROUS ASPHALT PAVEMENT MIXTURES SHALL MEET THE REQUIREMENTS SPECIFIED IN §401-2 MATERIALS,

POROUS ASPHALT PAVEMENT MIXTURE GRADATION REQUIREMENTS

SCREEN SIZES	GENERAL LIMITS % PASSING
3/4 INCH	100
1/2 INCH	85-100
3/8 INCH	55-75
NO. 4	10-25
NO. 8	5-10
NO. 200	2-4

POROUS ASPHALT PAVEMENT MIXTURE DESIGN CRITERIA

N_{design}	AIR VOIDS @ N_{DESIGN}	PG BINDER CONTENT	VCA_{MRX}[2]	DRAINDOWN OF UNCOMPACTED ASPHALT MIXTURES AASHTO T305, MAX	MIXING AND COMPACTION TEMPERATURE RANGE (°F)
50	20	5.5% MIN	LESS THAN VCA_{DRC}[1]	0.30%	285°F – 325°F

COARSE AGGREGATE TYPE F3 CONDITIONS.
USE ONE OF THE FOLLOWING TYPES OF COARSE AGGREGATE.
1. LIMESTONE OR A BLEND OF LIMESTONE AND DOLOMITE HAVING AN ACID-INSOLUBLE RESIDUE CONTENT OF NOT LESS THAN 20.0%.
2. DOLOMITE.
3. SANDSTONE, GRANITE, CHERT, TRAPROCK, ORE TAILINGS, SLAG OR OTHER SIMILAR NONCARBONATE MATERIALS.
4. GRAVEL, OR A NATURAL OR MANUFACTURED BLEND OF THE FOLLOWING TYPES OF MATERIALS: LIMESTONE, DOLOMITE, GRAVEL, SANDSTONE, GRANITE, CHERT, TRAPROCK, ORE TAILINGS, SLAG OR OTHER SIMILAR MATERIALS, WHERE THE NONCARBONATE PLUS 1/8 INCH PARTICLES MUST COMPRISE A MINIMUM OF 10.0% OF THE TOTAL AGGREGATE (BY WEIGHT WITH ADJUSTMENTS TO EQUIVALENT VOLUMES FOR MATERIALS OF DIFFERENT SPECIFIC GRAVITIES). A MINIMUM OF 20.0% OF PLUS 3/8 INCH PARTICLES MUST BE NONCARBONATE.

CONSTRUCTION DETAILS:
THE PROVISIONS OF §401-3 AND §402-3, CONSTRUCTION DETAILS, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

PLANT QC/QA. QC/QA TESTING OF THE MIXTURE WILL BE PERFORMED A MINIMUM OF ONCE PER DAY REGARDLESS OF THE QUANTITY PRODUCED. THE QCT/QAT SHALL PERFORM ALL TESTING REQUIRED IN MATERIALS PROCEDURE 401, TABLE 3 SAMPLING AND TESTING MATRIX, INCLUDING AIR VOIDS TESTING. HOWEVER, ACCEPTANCE OF THE MIXTURE QUALITY WILL BE BASED ON AGGREGATE GRADATION AND ASPHALT BINDER CONTENT ONLY.

PLANT PRODUCTION. IF THE TOP COURSE MIXTURE IS PRODUCED IN A BATCH TYPE PLANT AND THE MIXTURE CONTAINS A FIBER STABILIZING ADDITIVE, THE MIXING TIME OF THE DRY CONSTITUENTS OF THE MIXTURE (AGGREGATES AND FIBER STABILIZING ADDITIVE), MUST BE INCREASED BY A MINIMUM OF 15 SECONDS.

PAVING. KEEP THE POROUS ASPHALT PAVEMENT FREE OF CONTAMINATION FROM THE CONSTRUCTION OPERATIONS. TAKE PRECAUTIONS AS NECESSARY SUCH AS WASHING TRUCK TIRES, INSTALLATION OF SILT FENCE, TARPS ON HEAVILY TRAVELED AREAS, ETC. STAGE THE PLACEMENT OF THE POROUS ASPHALT PAVEMENT AFTER THE SURROUNDING AREAS HAVE BEEN FINAL GRADED AND STABILIZED TO MINIMIZE POTENTIAL SEDIMENT LADEN WATER FROM REACHING THE PAVEMENT SURFACE.

DO NOT PLACE THE POROUS ASPHALT PAVEMENT MIXTURE ON A WET SURFACE OR WHEN THE SURFACE TEMPERATURE IS BELOW 50° F.

THE USE OF TACK COAT WILL BE PROHIBITED. PRIOR TO THE PLACEMENT OF THE TOP COURSE, THE BINDER COURSE MUST BE CLEANED TO THE SATISFACTION OF THE ENGINEER-IN-CHARGE.

PLACE EACH COURSE OF POROUS ASPHALT PAVEMENT IN ONE LIFT. USE A MECHANICAL RUBBER TRACK PAVER TO PLACE AS MUCH OF THE MIX AS POSSIBLE.

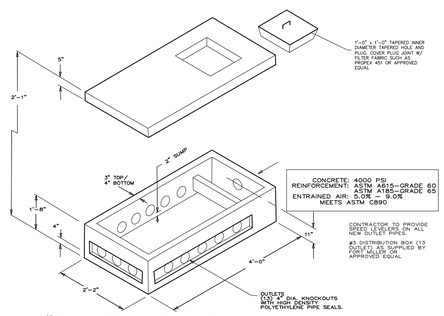
AFTER COMPLETION OF EACH PAVEMENT COURSE, ALLOW THE PAVEMENT TO CURE FOR A MINIMUM OF 24 HOURS BEFORE PLACING THE NEXT COURSE OR ALLOWING TRAFFIC OF ANY KIND ON IT.

ROLLERS. A DOUBLE DRUM ASPHALT ROLLER, WITH A MINIMUM DRUM WIDTH OF 54 INCHES AND A MINIMUM WEIGHT OF 10 TONS, IS REQUIRED. THE ROLLER MUST BE OPERATED IN STATIC MODE AT ALL TIMES. OPERATION OF THE ROLLER IN VIBRATORY AND/OR OSCILLATORY MODE IS PROHIBITED. PNEUMATIC TIRE ROLLERS ARE PROHIBITED. DO NOT STOP THE ROLLER ON THE FRESHLY PLACED MIX FOR MORE THAN 30 SECONDS.

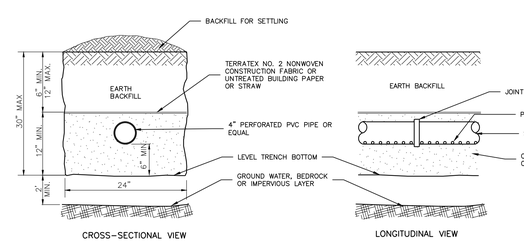
DENSITY GAUGE. PROVIDE A DENSITY GAUGE OPERATOR THAT POSSESSES A CURRENT DENSITY GAUGE INSPECTOR CERTIFICATION FROM THE ASSOCIATED GENERAL CONTRACTORS, NEW YORK STATE, OR ITS EQUIVALENT. THE DENSITY GAUGE OPERATOR WILL MONITOR THE IN-PLACE DENSITY TO ENSURE THAT THE PAVEMENT IS BEING COMPACTED TO THE PROJECT TARGET DENSITY (PTD). PERFORM A MINIMUM OF ONE DENSITY GAUGE READING FOR EVERY 200 SQUARE FEET OF PAVEMENT SURFACE PLACED.

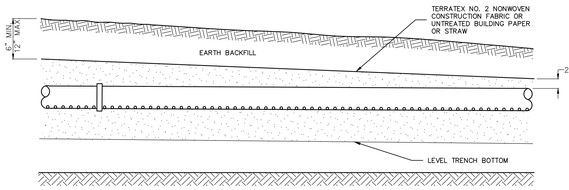
FINAL ACCEPTANCE. ACCEPTANCE OF THE FINISHED PRODUCT WILL BE BASED ON:
1. ACCEPTABLE IN-PLACE DENSITY GAUGE READINGS AT EACH TEST LOCATION WILL BE BETWEEN 95% AND 105% OF THE PTD.
2. A VISUAL EVALUATION OF THE PAVEMENT SURFACE.
3. POROSITY TEST. ALLOW A MINIMUM OF 24 HOURS AFTER COMPLETION OF THE TOP COURSE, BEFORE TESTING. PERFORM A POROSITY TEST AT 3 LOCATIONS CHOSEN BY THE ENGINEER-IN-CHARGE, AT EACH LOCATION, TEST THE POROSITY FOR A MINIMUM OF 3 MINUTES. THE TEST IS ACCOMPLISHED BY APPLYING CLEAN WATER AT THE RATE OF AT LEAST 5 GAL/MIN OVER THE SURFACE, USING A HOSE OR OTHER DISTRIBUTION DEVICE. WATER USED FOR THE TEST SHALL BE CLEAN, FREE FROM SUSPENDED SOLIDS AND DELETERIOUS MATERIALS AND WILL BE PROVIDED AT NO ADDITIONAL COST. ALL APPLIED WATER SHALL INFILTRATE THE TEST PANEL DIRECTLY, WITHOUT PONDING FORMATION OR SURFACE RUNOFF, AND SHALL BE OBSERVED BY THE ENGINEER-IN-CHARGE

8/14 POROUS PAVEMENT SPECIFICATIONS
NOT TO SCALE



3/14 #3 DISTRIBUTION BOX
NOT TO SCALE

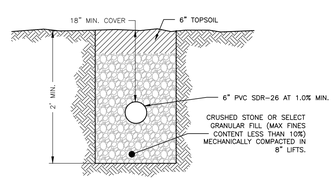




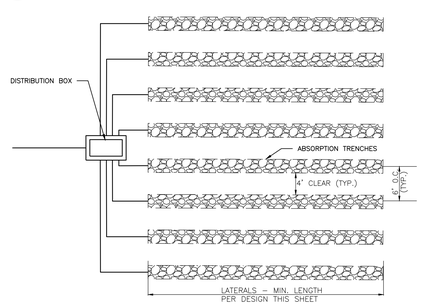
TRENCH PROFILE

NOTES:
1) DO NOT INSTALL TRENCH IN WET SOIL.
2) RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL OR STONE.
3) END OF ALL DISTRIBUTOR PIPES MUST BE CAPPED.
4) SLOPE DISTRIBUTOR PIPE @ 1/16" - 1/32" PER FT.

4/14 STANDARD ABSORPTION TRENCH DETAIL
NOT TO SCALE



5/14 SANITARY SEWER LATERAL TRENCH
NOT TO SCALE



6/14 ABSORPTION FIELD LAYOUT
NOT TO SCALE

SOIL RESTORATION PROCEDURE:

AS PER CHAPTER 4 OF THE 2016 NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL IS REQUIRED ON THIS SITE IN ALL NON-IMPERVIOUS AREAS ONCE FINAL SUBGRADE ELEVATION IS ACHIEVED. IN AREAS OF CUT OR FILL THE SOILS SHALL BE AERATED AND 6 INCHES OF TOPSOIL SHALL BE APPLIED. IN AREAS OF HEAVY CONSTRUCTION TRAFFIC (ESPECIALLY IN AREAS 5 TO 25 FEET FROM BUILDING, BUT NOT WITHIN 5 FEET OF FOUNDATION WALLS) AND AREAS WHERE EXISTING IMPERVIOUS OR VEHICLE TRAFFIC/PARKING AREAS WILL BE CONVERTED TO PERVIOUS AREAS THE FOLLOWING RESTORATION MUST BE APPLIED:

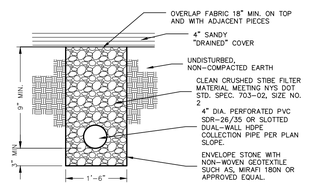
1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL. THE COMPOST SHALL BE WELL DECOMPOSED (MATURED AT LEAST 3 MONTHS), WEED-FREE, ORGANIC MATTER. IT SHALL BE AEROBICALLY COMPOSTED, POSSESS NO OBJECTIONABLE ODORS; AND CONTAIN LESS THAN 1%, BY DRY WEIGHT, OF MAN-MADE FOREIGN MATTER. THE PHYSICAL PARAMETERS OF THE COMPOST SHALL MEET THE STANDARDS LISTED IN COMPOST STANDARDS TABLE.
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, TO MIX AND CIRCULATE AIR AND COMPOST INTO THE SUBSOIL.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
5. VEGETATE AS REQUIRED BY THE SEEDING PLAN. USE APPROPRIATE GROUND COVER WITH DEEP ROOTS TO MAINTAIN THE SOIL STRUCTURE.
6. TOPSOIL MAY BE MANUFACTURED AS A MIXTURE OR A MINERAL COMPONENT AND ORGANIC MATERIAL SUCH AS COMPOST.

AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT. THIS SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE.

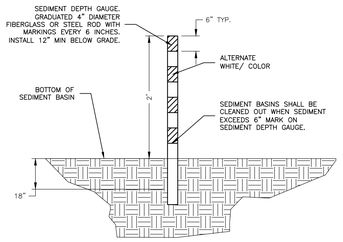
COMPOST STANDARDS TABLE

ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	6.0 - 8.0
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	100% PASSING, 2" SCREEN & 10% - 50% PASSING 3/8" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 DS/M (MMHOS/CM) MAXIMUM

9/14 SOIL RESTOTATION
NOT TO SCALE



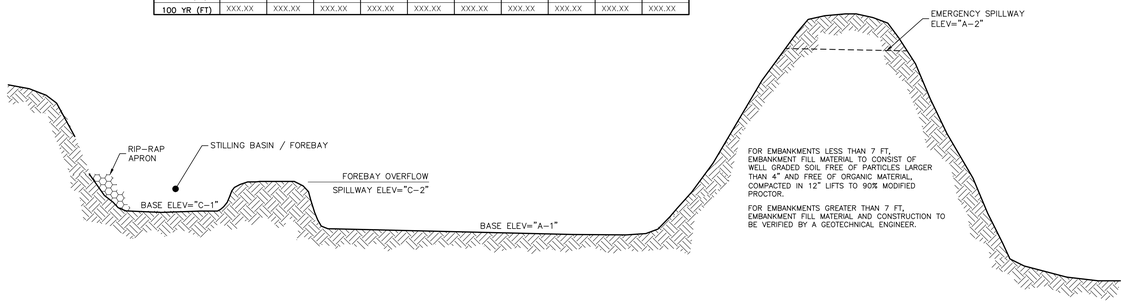
11/14 STORM BASIN UNDERDRAIN
NOT TO SCALE



14/14 SEDIMENT DEPTH GAUGE
NOT TO SCALE

INFILTRATION BASIN ELEVATIONS

	SMA 1	SMA 3	SMA 5	SMA 6	SMA 7	SMA 9	SMA 11	SMA 13	SMA 15	
A-1 (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
A-2 (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
B-1 (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
B-2 (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
STORM EVENT 1 YR (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
10 YR (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
25 YR (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX
100 YR (FT)	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX


RIP-RAP APRON
STILLING BASIN / FOREBAY
BASE ELEV="C-1"
FOREBAY OVERFLOW
SP