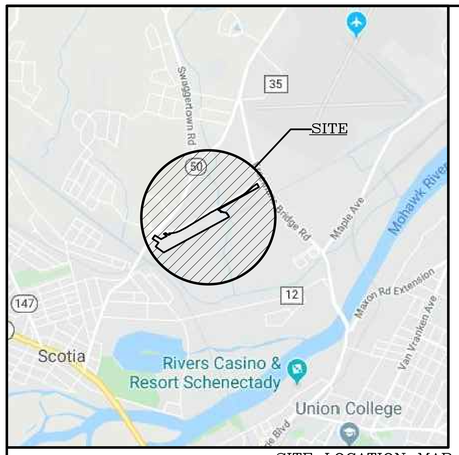


SITE LOCATION MAP
SCALE: 1" = 2000'

PROPOSED SITE IMPROVEMENTS

DUTCH MEADOWS RESIDENTIAL COMMUNITY

APPLICANT / OWNER:

RBC GLENVILLE DEVELOPMENT, LLC

LOCATED AT DUTCH MEADOWS LANE
TOWN OF GLENVILLE
SCHENECTADY COUNTY, NEW YORK

SITE STATISTICS:

EXISTING ZONING	PROFESSIONAL/RESIDENTIAL, GENERAL BUSINESS
PROPOSED ZONING	RESIDENTIAL PLANNED DEVELOPMENT DISTRICT
TAX PARCEL	30.-1-24.411
PARCEL AREA	24.197± ACRES
PROPOSED USES	
APARTMENTS	208 UNITS
TOWNHOUSE	29 UNITS
STORMWATER MANAGEMENT	ONSITE
SANITARY PROVISIONS	GLENVILLE SEWER DISTRICT #9
WATER PROVISIONS	GLENVILLE WATER DISTRICT #11

SHEET INDEX:

NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
REGION 4

SCHENECTADY COUNTY HEALTH DEPARTMENT

TOWN OF GLENVILLE PLANNING BOARD

NYSDEC CONSTRUCTION CERTIFICATION NOTE:

THE CONSTRUCTION OF THE SANITARY SEWERS DEPICTED ON THESE PLANS SHALL BE UNDER THE SUPERVISION OF A PERSON OR FIRM QUALIFIED TO PRACTICE PROFESSIONAL ENGINEERING IN THE STATE OF NEW YORK UNDER THE EDUCATION LAW OF THE STATE OF NEW YORK. WITHIN THIRTY (30) DAY FOLLOWING THE COMPLETION OF THEE CONSTRUCTION THE ENGINEER SHALL CERTIFY TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND TO THE OWNER THAT THE CONSTRUCTED FACILITIES HAVE BEEN CONSTRUCTED UNDER THE SUPERVISION AND THE WORK HAS BEEN FULLY COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING REPORT AND PLANS. THE PROJECT DEVELOPER MUST RECEIVE WRITTEN ACCEPTANCE OF SUCH CERTIFICATION FROM THE DEPARTMENT PRIOR TO PLACING THE FACILITIES IN SERVICE.

RECORD OF SUBMITTALS	DATE	BY
SUBMISSION OF PRELIMINARY PLANS TO TOWN OF GLENVILLE PLANNING BOARD	02/14/2020	JCD
SUBMISSION OF PLANS TO TOWN OF GLENVILLE PLANNING BOARD	03/23/2020	JCD

PLANS PREPARED BY :

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

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

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC
DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

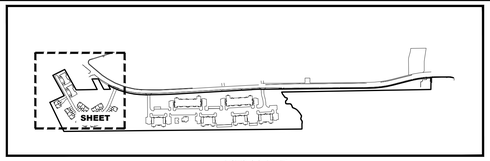
SCALE:
AS SHOWN

NOT FOR CONSTRUCTION

SHEET TITLE:
COVER SHEET

SHEET:
1 of 29

D:\SCHENECTADY\GLENVILLE\Dutch Meadows Land\01 Freeworks Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\00_CS_DUTCHMEADOWS.dwg Mar 21, 2020 09:00:16AM



KEY MAP
N.T.S.

SITE STATISTICS:

ZONING DISTRICTS	
EXISTING	GENERAL BUSINESS
PROPOSED	RESIDENTIAL PLANNED DEVELOPMENT DISTRICT
PARCEL AREA	24.197± ACRES
PROPOSED USE	APARTMENT/ TOWN HOUSE
UNITS PROPOSED	237 UNITS
PARKING	
STANDARD SPACES	238
HANDICAP SPACES	9
GARAGE SPACES	157
TOTAL PARKING	404
PARKING RATIO	1.7± SPACES PER UNIT
STORMWATER MANAGEMENT	ONSITE
SANITARY PROVISIONS	GLENVILLE SEWER DISTRICT #8
WATER PROVISIONS	GLENVILLE WATER DISTRICT #11

PHASE I SITE STATISTICS:

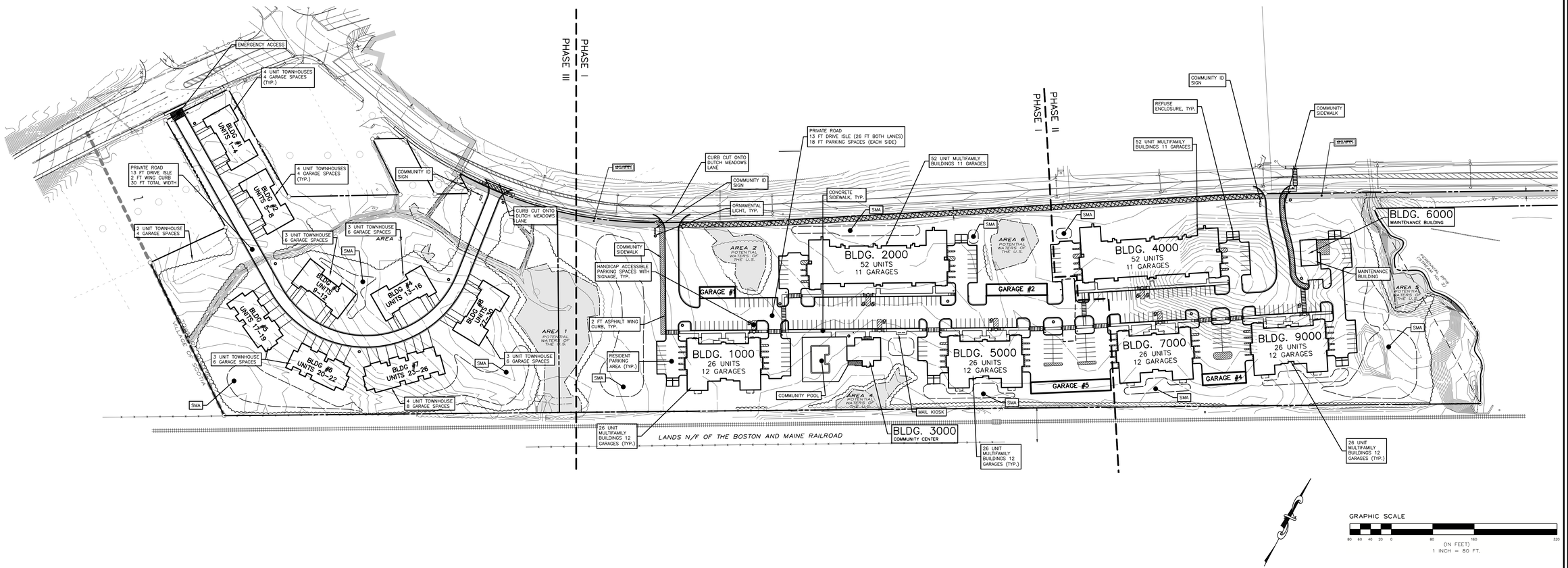
UNITS PROPOSED	
APARTMENT	104 UNITS
APARTMENT PARKING	
STANDARD SPACES	142
HANDICAP SPACES	5
GARAGE SPACES	63
TOTAL PARKING	210

PHASE II SITE STATISTICS:

UNITS PROPOSED	
APARTMENT	104 UNITS
APARTMENT PARKING	
STANDARD SPACES	96
HANDICAP SPACES	4
GARAGE SPACES	44
TOTAL PARKING	144

PHASE III SITE STATISTICS:

UNITS PROPOSED	
TOWNHOME	30 UNITS
TOWNHOME PARKING	
STANDARD SPACES	0
HANDICAP SPACES	N/A
GARAGE SPACES	50
TOTAL PARKING	50



GRAPHIC SCALE
80 60 40 20 0 80 160 320
(IN FEET)
1 INCH = 80 FT.

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900 Route 146 Clifton Park, New York 12065
(518) 371-7421
edpllp.com

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE:
1" = 80'

NOT FOR CONSTRUCTION

SHEET TITLE:
COMMUNITY MASTER PLAN

SHEET:
2 of 29

D:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freeways Bridge Rd - RBC\03-dwg\Detailed Plans\SHEETS\03_DASP\N_DUTCHMEADOWS.dwg Mar 23, 2020 01:23:39PM

LEGEND:

(55) denotes Map Reference No. xxx Lot Number
(14) denotes Map Reference No. xxx Lot Number
C denotes Common
CB denotes Catch Basin
EOP denotes Edge of Pavement
UP denotes Utility Pole

MAP REFERENCES:

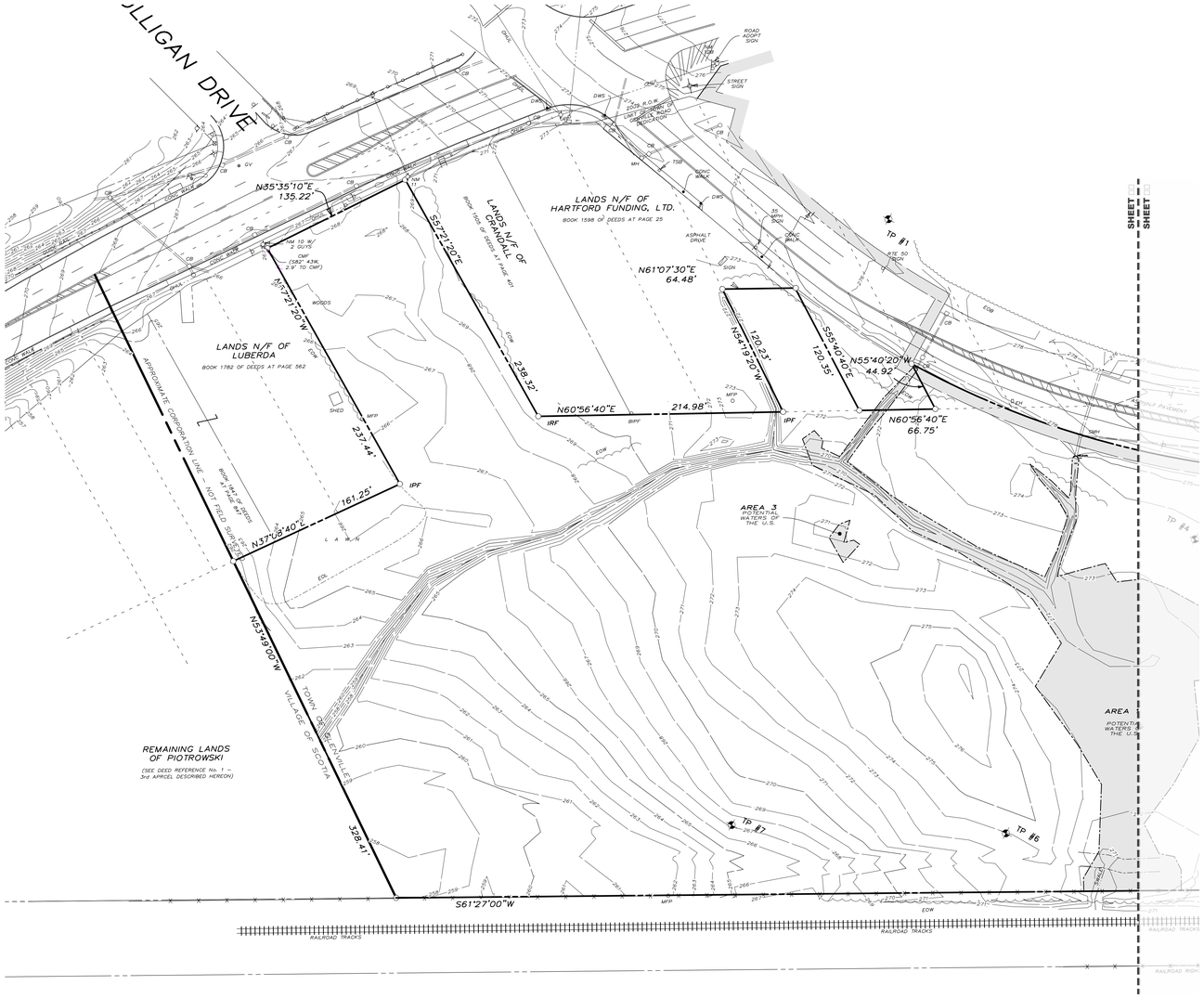
1) Map Entitled: "Glen Sanders Manor in the Town of Glenville, County of Schenectady, New York, Belonging to Martin Silberkraus, Fred W. Silberkraus and William H. Brown"
Map Date: December 1921
Prepared By: W. W. Chadsey
Map Filed: Schenectady County Clerk

2) Map Entitled: "The Spearhead Plat, Glen Sanders Manor"
Map Date: April 24, 1926
Prepared By: Lewis B. Sebring
Map Filed: June 7, 1926
Schenectady County Clerk

3) Map Entitled: "Glenwyck Manor"
Map Date: January 25, 2013
Prepared By: Creighton Manning
Map Filed: March 1, 2014
Schenectady County Clerk

4) Schenectady County Real Property Tax Map
Town of Glenville
Section 30.00
Block 1
Lot No. 24.411, 24.412

5) Schenectady County Real Property Tax Map
Town of Glenville
Section 30.13
Block 3
Lot No. 13, 42.1, 43



A/3 EXISTING CONDITIONS (WEST)
1" = 50'

SOILS ANALYSIS

TP #1
0" – 20" SANDY SILT W/ BROKEN SHALE
20" – 48" BROKEN ASPHALT/CONCRETE, MIXED W/ BROKEN SHALE & SANDY SILTY LOAM
*BEDROCK AT 48"

TP #2
0" – 8" DARK BROWN TOPSOIL
8" – 28" BROWN SANDY LOAM W/ BROKEN SHALE
28" – 60" SHALE, BROKEN & DIG-ABLE (WET) WATER BUBBLING OUT BOTTOM. SOLID SHALE AT BOTTOM

TP #3 (MW)
0" – 10" DARK BROWN TOPSOIL
10" – 18" MOTTLED SANDY CLAY
18" – 48" SHALE, BROKEN & DIGABLE
*SOLID SHALE REFUSAL AT 48"

TP #4
0" – 8" DARK BROWN TOPSOIL
8" – 18" LIGHT BROWN MOTTLED SANDY CLAY
18" – 24" SHALE, BROKEN & DIGABLE
*SOLID SHALE REFUSAL AT 24"

TP #5
0" – 8" DARK BROWN TOPSOIL
8" – 12" RED BROWN SANDY SILT
12" – 18" BROKEN SHALE
*SOLID SHALE REFUSAL AT 18"

TP #6
0" – 4" DARK BROWN TOPSOIL
4" – 24" RED BROWN SANDY SILT
24" – 28" BROKEN SHALE
*SOLID SHALE REFUSAL AT 28"

TP #7 (MW)
0" – 6" DARK BROWN TOPSOIL
6" – 18" RED BROWN SANDY SILT, SOME SHALE
18" – 55" BROKEN SHALE
*SOLID SHALE REFUSAL AT 55"

TP #8
0" – 6" DARK BROWN TOPSOIL
6" – 16" RED BROWN SANDY SILT, MOTTLED
16" – 48" BROWN SHALE
*SOLID SHALE REFUSAL AT 48"

TP #9
0" – 4" BROWN TOPSOIL
4" – 16" RED BROWN SANDY SILT W/ BROKEN SHALE
16" – 42" BROKEN SHALE
*SOLID SHALE REFUSAL AT 42"

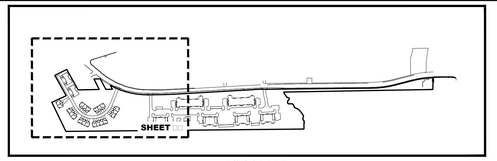
TP #10
0" – 10" TOPSOIL
10" – 20" LIGHT BROWN SANDY SILT
20" – 30" MOTTLED BROWN SANDY SILT
30" – 60" GRAY WET SANDY SILT
*SHGW @ 20", ROCK REFUSAL @ 60"

TP #11
0" – 42" RED BROWN COARSE SAND, SOME SILT & SHALE
42" – 84" DARK BROWN COARSE SAND, LIGHT SILT, SOME SHALE (WET)
84" BROWN SHALE
*SHGW @ 42"±

TP #12
0" – 10" TOPSOIL
10" – 24" LIGHT BROWN SANDY SILT (COMPACT)
24" – 42" MOTTLED SANDY SILT
42" – 84" WET BROWN COARSE SAND, SILT SHALE THROUGHOUT
*WATER SEEPING IN AT 60"

TP #13
0" – 8" TOPSOIL
8" – 40" RED BROWN SANDY SILT, MOTTLED THROUGHOUT
40" – 60" BROWN COARSE SAND & SILT, SHALE THROUGHOUT, WATER SEEPING IN AT BOTTOM OF EXCAVATION.

TP #14
0" – 18" TOPSOIL
18" – 36" MOTTLED SANDY SILT, SOME SHALE
36" – 60" WET DARK BROWN COARSE SAND & SILT, SHALE THROUGHOUT
*WATER SEEPING INTO EXCAVATION AT 36", SHGW @ 18"



KEY MAP
N.T.S.

GRAPHIC SCALE
50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

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(518) 373-1821
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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11378

REVISION	DATE	BY

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: EXISTING CONDITIONS

SHEET: 3 of 29

D:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\01_EC_DUTCHMEADOWS.dwg Mar 21, 2020 09:21:14AM

LEGEND:

(#)	denotes Map Reference No. 1 Lot Number	OTSL	denotes Overhead Traffic Signal Lights
—s—	denotes Sanitary Force Main	PVC	denotes Plastic Pipe
ALO	denotes Approximate Location of	REF.	denotes Reference
BIRF	denotes Bent Iron Rod Found	RET	denotes Retaining
CB	denotes Catch Basin	RFT	denotes Reflector
CIRF	denotes Capped Iron Rod Found	R.O.W.	denotes Right of Way
CMF	denotes Concrete Monument Found	RR	denotes Railroad
CONC	denotes Concrete	RRM	denotes Railroad Marker
CTV	denotes Cable TV Service Box	STM	denotes Storm
DIP	denotes Ductile Iron Pipe	SWL	denotes Single White Line
DYL	denotes Double Yellow Lines	SWR	denotes Sewer
EH	denotes Electric Handhole	TP	denotes Telephone Pedestal
EOB	denotes Edge of Brush	TSB	denotes Traffic Signal Box
EOL	denotes Edge of Lawn	TSP	denotes Traffic Signal Pole
EOP	denotes Edge of Pavement	UP	denotes Utility Pole
EOW	denotes Edge of Woods	UTIL	denotes Utility
FOCC	denotes Face of Concrete Curb	WFP	denotes Wood Fence Post
GMF	denotes Granite Monument Found	WS	denotes Water Shutoff
GSP	denotes Gas Stand Pipe		
GV	denotes Gate Valve		
GVB	denotes Gas Valve Box		
HDPE	denotes Black Plastic Pipe		
HW	denotes Headwall		
HYD	denotes Fire Hydrant		
IPF	denotes Iron Pipe Found		
IRF	denotes Iron Rod Found		
JB	denotes Junction Box		
MFP	denotes Metal Fence Post		
MGR	denotes Metal Guide Rail		
N/F	denotes Now or Formerly		
NM	denotes Niagara Mohawk Utility Pole		
OHUL	denotes Overhead Utility Lines		

MAP REFERENCES:

1) Map Entitled: "Glen Sanders Manor in the Town of Glenville, County of Schenectady, New York, Belonging to Martin Silberkraus, Fred W. Silberkraus and William H. Brown"
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   Prepared By: W. W. Chadsey
   Map Filed: Schenectady County Clerk

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   Map Date: January 25, 2013
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   Map Filed: March 1, 2014
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4) Schenectady County Real Property Tax Map
   Town of Glenville
   Section 30.00
   Block 1
   Lot No. 24.411, 24.412

5) Schenectady County Real Property Tax Map
   Town of Glenville
   Section 30.13
   Block 3
   Lot No. 13, 42.1, 43

SOILS ANALYSIS

TP #1
0" – 20" SANDY SILT W/ BROKEN SHALE
20" – 48" BROKEN ASPHALT/CONCRETE, MIXED W/ BROKEN SHALE & SANDY SILTY LOAM
*BEDROCK AT 48"

TP #2
0" – 8" DARK BROWN TOPSOIL
8" – 28" BROWN SANDY LOAM W/ BROKEN SHALE
28" – 60" SHALE, BROKEN & DIG-ABLE (WET)
WATER BUBBLING OUT BOTTOM, SOLID SHALE AT BOTTOM

TP #3 (NW)
0" – 10" DARK BROWN TOPSOIL
10" – 18" MOTTLED SANDY CLAY
18" – 48" SHALE, BROKEN & DIGABLE
*SOLID SHALE REFUSAL AT 48"

TP #4
0" – 8" DARK BROWN TOPSOIL
8" – 18" LIGHT BROWN MOTTLED SANDY CLAY
18" – 24" SHALE, BROKEN & DIGABLE
*SOLID SHALE REFUSAL AT 24"

TP #5
0" – 8" DARK BROWN TOPSOIL
8" – 12" RED BROWN SANDY SILT
12" – 18" BROKEN SHALE
*SOLID SHALE REFUSAL AT 18"

TP #6
0" – 4" DARK BROWN TOPSOIL
4" – 24" RED BROWN SANDY SILT
24" – 28" BROKEN SHALE
*SOLID SHALE REFUSAL AT 28"

TP #7 (NW)
0" – 6" DARK BROWN TOPSOIL
6" – 18" RED BROWN SANDY SILT, SOME SHALE
18" – 55" BROKEN SHALE
*SOLID SHALE REFUSAL AT 55"

TP #8
0" – 6" DARK BROWN TOPSOIL
6" – 16" RED BROWN SANDY SILT, MOTTLED
16" – 48" BROWN SHALE
*SOLID SHALE REFUSAL AT 48"

TP #9
0" – 4" BROWN TOPSOIL
4" – 16" RED BROWN SANDY SILT W/ BROKEN SHALE
16" – 42" BROKEN SHALE
*SOLID SHALE REFUSAL AT 42"

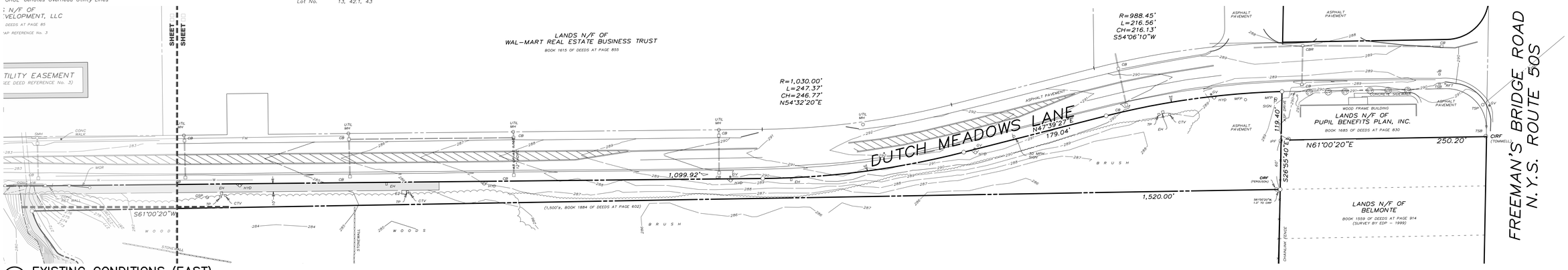
TP #10
0" – 10" TOPSOIL
10" – 20" LIGHT BROWN SANDY SILT
20" – 30" MOTTLED BROWN SANDY SILT
30" – 60" GRAY WET SANDY SILT
*SHGW @ 20", ROCK REFUSAL @ 60"

TP #11
0" – 42" RED BROWN COARSE SAND, SOME SILT & SHALE
42" – 84" DARK BROWN COARSE SAND, LIGHT SILT, SOME SHALE (WET)
84" BROWN SHALE
*SHGW @ 42"±

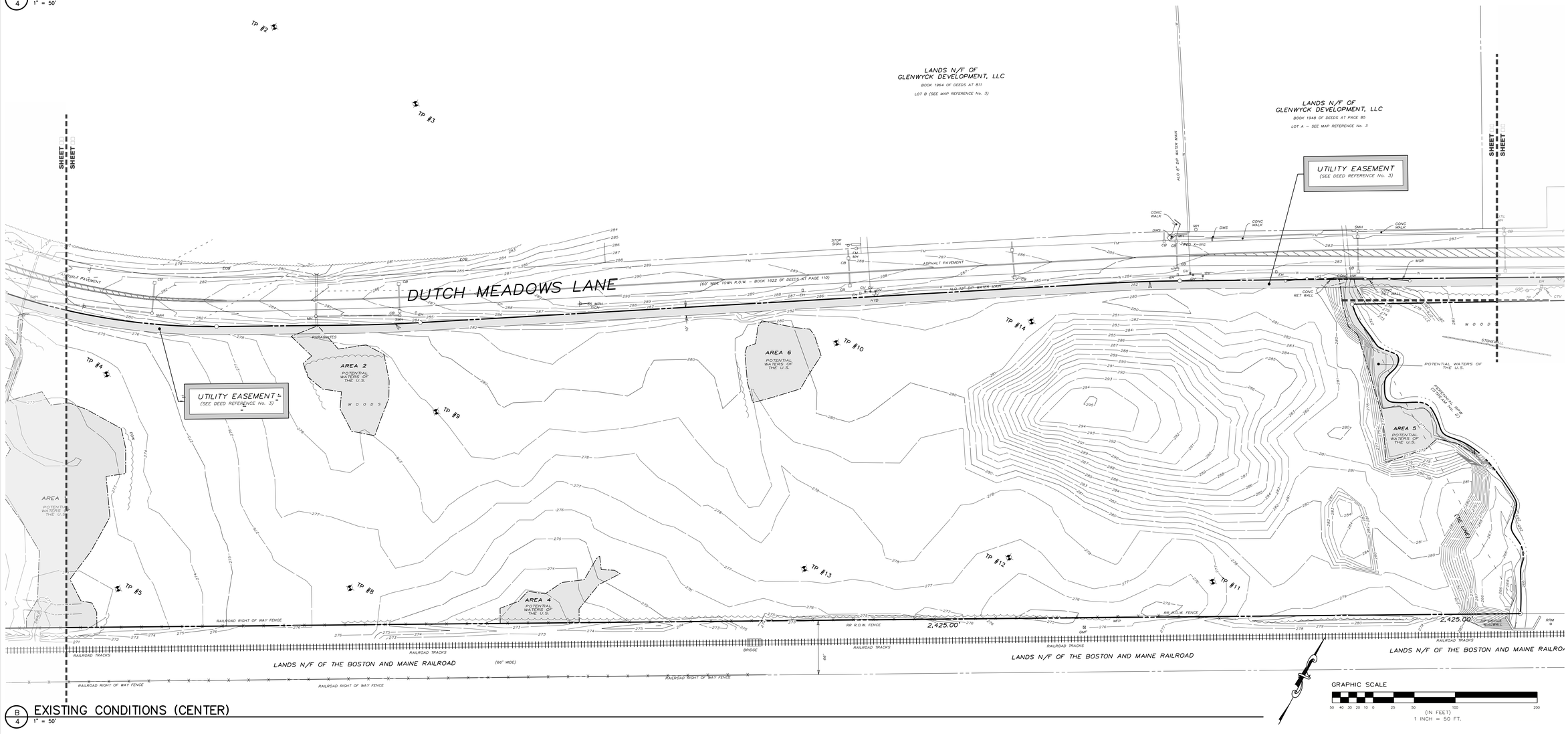
TP #12
0" – 10" TOPSOIL
10" – 24" LIGHT BROWN SANDY SILT (COMPACT)
24" – 42" MOTTLED SANDY SILT
42" – 84" WET BROWN COARSE SAND, SILT SHALE THROUGHOUT
*WATER SEEPING IN AT 60"

TP #13
0" – 8" TOPSOIL
8" – 40" RED BROWN SANDY SILT, MOTTLED THROUGHOUT
40" – 60" BROWN COARSE SAND & SILT, SHALE THROUGHOUT.
WATER SEEPING IN AT BOTTOM OF EXCAVATION.

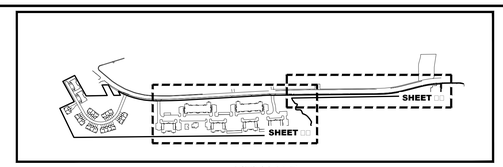
TP #14
0" – 18" TOPSOIL
18" – 36" MOTTLED SANDY SILT, SOME SHALE
36" – 60" WET DARK BROWN COARSE SAND & SILT, SHALE THROUGHOUT
*WATER SEEPING INTO EXCAVATION AT 36", SHGW @ 18"



A/4 EXISTING CONDITIONS (EAST)
1" = 50'



B/4 EXISTING CONDITIONS (CENTER)
1" = 50'



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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: EXISTING CONDITIONS

SHEET: 4 of 29

SITE PLAN LEGEND:

- DENOTES STANDARD ROADWAY ASPHALT PAVEMENT — 6/27
- DENOTES CONCRETE SIDEWALK — 4/27
- DENOTES ASPHALT WING CURB — 15/27
- DENOTES POURED IN PLACE CONCRETE VERTICAL CURB — 3/27
- DENOTES CONCRETE CURB RAMP — 8/27, 13/27
- HANDICAP PARKING — 2/27, 11/27
- PARKING NUMBER (23)
- SIGN
- POLE LIGHTS — 10/27
- ORNAMENTAL LIGHTS — 10/27

DETAIL NUMBER 1 / SHEET NUMBER 10 — DETAIL KEY

SIGN LEGEND			
SYMBOL	SIGN	MUTCD DESIGNATION	QUANTITY
STOP	"STOP" SIGN	R1-1	16
DEAD END	"DEAD END" SIGN	W14-1	1
AUTHORIZED VEHICLES ONLY	"AUTHORIZED VEHICLES ONLY" SIGN	WR5-11	1

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

KEY MAP
N.T.S.

CULLIGAN DRIVE

BALLSTON AVENUE
N.Y.S. ROUTE 50
(STATE HIGHWAY No. 5314)

CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THE R.O.W.

APPROX. LOCATION OF EXISTING DROP CURB CUT. REMOVE CURB CUT – INSTALL NEW CURB AND SIDEWALK TO MATCH EXISTING

1/5 EMERGENCY ACCESS (SEE DETAIL)

"EMERGENCY ACCESS ONLY" SIGN

"AUTHORIZED VEHICLES ONLY" SIGN

ORNAMENTAL LIGHT

15/27 ASPHALT WING CURB, TYP.

6/27 HEAVY DUTY ASPHALT PAVEMENT, TYP.

STRUCTURAL BOX CULVERT AT ROAD CROSSING

GUARD RAIL TO BE COORDINATED WITH TOWN OF GLENVILLE, TYP.

16/27 10/27 ORNAMENTAL LIGHT

8/26 BIO-RETENTION AREA

5' CONCRETE SIDEWALK, TYP.

A.C.O.E. WETLAND AREA, TYP.

BLEND NEW PAVEMENT SMOOTHLY AND EVENLY INTO EXISTING ROAD

LANDS N/F OF HARTFORD FUNDING, LTD.
BOOK 1598 OF DEEDS AT PAGE 25

LANDS N/F OF GRANDALL
BOOK 1067 OF DEEDS AT PAGE 401

LANDS N/F OF LUBERDA
BOOK 1782 OF DEEDS AT PAGE 562

BLDG #1 UNITS 1-4
BLDG #2 UNITS 5-8
BLDG #3 UNITS 9-12
BLDG #4 UNITS 13-16

ROAD A

AREA 3

POTENTIAL WATERS OF THE U.S.

2002 R.O.W. LINE

SHEET
SHEET

1/5 EMERGENCY ACCESS DETAIL PLAN
1" = 10'

3'-5' TRANSITION FROM VERTICAL CURB TO MOUNTABLE CURB
MOUNTABLE CURB 11/26
"EMERGENCY ACCESS ONLY" SIGN
TRUGRID ECO GRASS PAVER OR APPROVED EQUIVALENT
SIDEWALK TO MATCH EXISTING
"AUTHORIZED VEHICLES ONLY" SIGN
16/27 10/27 ORNAMENTAL LIGHT

GRAPHIC SCALE
10 8 6 4 2 0 10 20 40
(IN FEET)
1 INCH = 10 FT.

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
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edpllp.com

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: SITE PLAN

SHEET: 5 of 29

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\05_SPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:20:19AM

SITE PLAN LEGEND:

- DENOTES STANDARD ROADWAY ASPHALT PAVEMENT — 6 / 27
- DENOTES CONCRETE SIDEWALK — 4 / 27
- DENOTES ASPHALT WING CURB — 15 / 27
- DENOTES POURED IN PLACE CONCRETE VERTICAL CURB — 3 / 27
- DENOTES CONCRETE CURB RAMP — 8 / 27, 13 / 27
- HANDICAP PARKING — 2 / 27, 11 / 27
- PARKING NUMBER — 29
- SIGN
- POLE LIGHTS
- ORNAMENTAL LIGHTS — 10 / 29

DETAIL KEY: DETAIL LOCAL NUMBER / SHEET NUMBER — 1 / 10

SIGN LEGEND

SYMBOL	SIGN	MUTCD DESIGNATION	QUANTITY
STOP	"STOP" SIGN	R1-1	16
DEAD END	"DEAD END" SIGN	W14-1	1
AUTHORIZED VEHICLES ONLY	"AUTHORIZED VEHICLES ONLY" SIGN	W16-11	1

SHEET 5 — SHEET 5 — SHEET 7 — SHEET 7

TOWN OF GLENVILLE / VILLAGE OF SCOTIA

N/F OF BERDA — DEED AT PAGE 562

ROAD A — ROAD A — DUTCH MEADOWS LANE

BLDG #5 UNITS 1-4 — BLDG #5 UNITS 5-8 — BLDG #5 UNITS 9-12 — BLDG #5 UNITS 13-16 — BLDG #5 UNITS 17-19 — BLDG #5 UNITS 20-22 — BLDG #7 UNITS 23-26 — BLDG #8 UNITS 27-30

HEAVY DUTY ASPHALT PAVEMENT, TYP. — ASPHALT WING CURB, TYP. — STRUCTURAL BOX CULVERT AT ROAD CROSSING — ORNAMENTAL LIGHT — GUARD RAIL TO BE COORDINATED WITH TOWN OF GLENVILLE, TYP. — STORMWATER POND ACCESS ROAD, TYP. — STORMWATER MANAGEMENT AREA — BIO-RETENTION AREA — AREA 3 POTENTIAL FUTURE DEVELOPMENT — CLASS C WETLAND AREA, TYP. — 5' CONCRETE SIDEWALK, TYP. — BLEND NEW PAVEMENT SMOOTHLY INTO EXISTING ROAD — CROSSWALK AND CURB RAMP STRIPING, TYP. — TRUCK ENT. MUTCD W14-1 — COMMUNITY ID SIGN — STOP SIGN — CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THE R.O.W.

R=213' — R=134' — R=134'

GRAPHIC SCALE: 20 15 10 5 0 20 40 80 (IN FEET) — 1 INCH = 20 FT.

KEY MAP N.T.S.

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

PROPOSED SITE IMPROVEMENTS FOR

DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

REVISION	DATE	BY

DRAWN BY: DJC
CHECKED BY: MJC
EDP PROJECT NUMBER: 17475

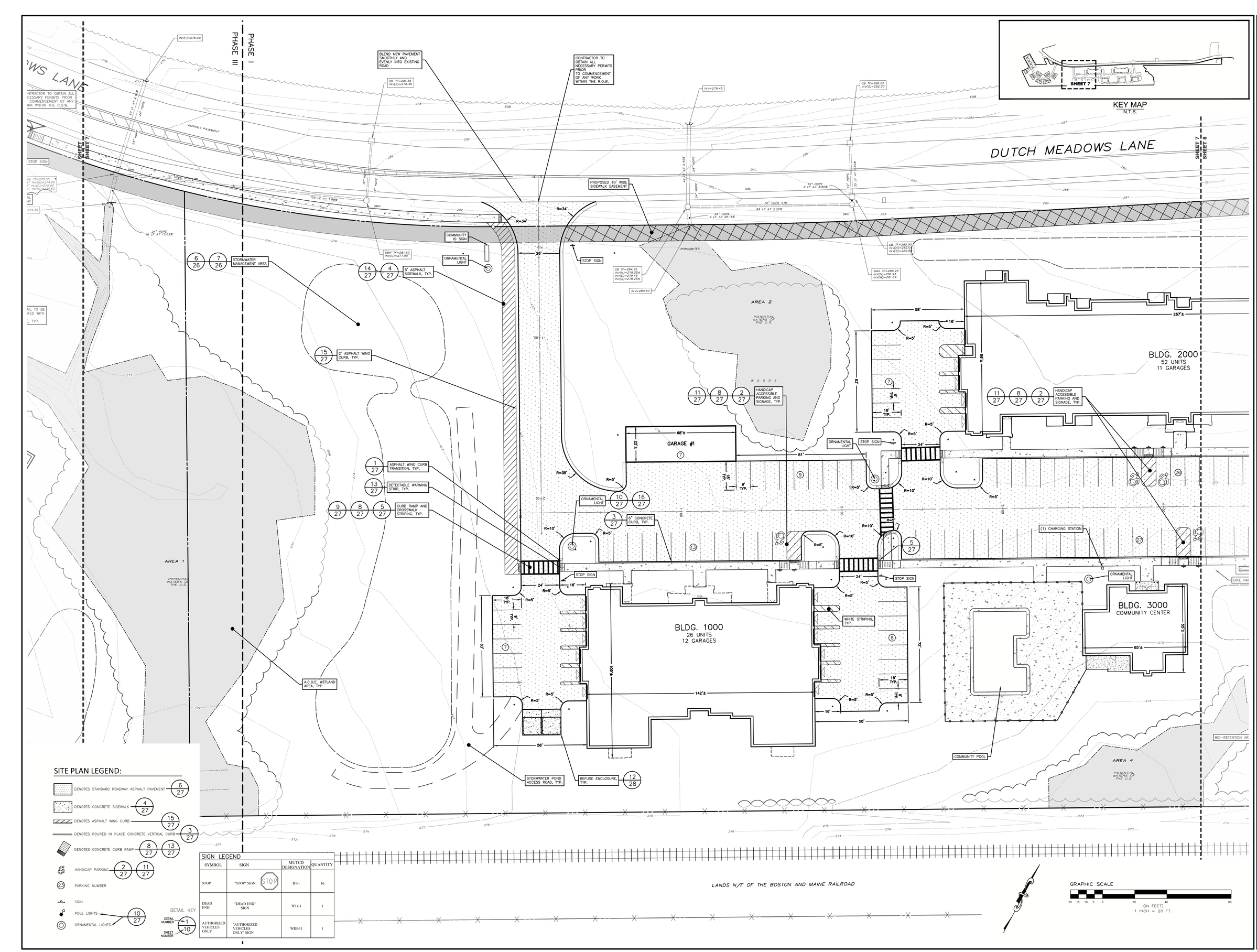
SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: SITE PLAN

SHEET: 6 of 29

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\81 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\05_SPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:22:29AM



SITE PLAN LEGEND:

- DENOTES STANDARD ROADWAY ASPHALT PAVEMENT — 6/27
- DENOTES CONCRETE SIDEWALK — 4/27
- DENOTES ASPHALT WING CURB — 15/27
- DENOTES POURED IN PLACE CONCRETE VERTICAL CURB — 3/27
- DENOTES CONCRETE CURB RAMP — 8/27, 13/27
- HANDICAP PARKING — 2/27, 11/27
- PARKING NUMBER (23)
- SIGN
- POLE LIGHTS — 10/27
- ORNAMENTAL LIGHTS — 10/27

SIGN LEGEND

SYMBOL	SIGN	MUTCD DESIGNATION	QUANTITY
STOP	"STOP" SIGN (STOP)	R1-1	16
DEAD END	"DEAD END" SIGN	W14-1	1
AUTHORIZED VEHICLES ONLY	"AUTHORIZED VEHICLES ONLY" SIGN	WR5-11	1

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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	115176

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: SITE PLAN

SHEET: 7 of 29

DUTCH MEADOWS LANE

SHEET 7
SHEET 8

PHASE I
PHASE II

SHEET 8
SHEET 9

KEY MAP
N.T.S.

BIO-RETENTION AREA

REFUSE ENCLOSURE, TYP.

AREA 6
POTENTIAL WATERS OF THE U.S.

BLDG. 2000
52 UNITS
11 GARAGES

BLDG. 4000
52 UNITS
11 GARAGES

BLDG. 3000
COMMUNITY CENTER

BLDG. 5000
26 UNITS
12 GARAGES

BLDG. 7000
26 UNITS
12 GARAGES

GARAGE #2

GARAGE #5

HANDICAP ACCESSIBLE PARKING AND SIGNAGE, TYP.

STOP SIGN

ORNAMENTAL LIGHT

MAIL KIOSK

CURB RAMP AND CROSSWALK STRIPING, TYP.

(1) CHARGING STATION

BIKE RACK

6" CONCRETE CURB, TYP.

ASPHALT WING CURB, TYP.

FIRE APPARATUS TURNAROUND FOR PHASE I

WHITE STRIPING, TYP.

ALO 6" DIP SANITARY FORCE MAIN

ALO 12" DIP WATER MAIN

(60' WIDE TOWN R.O.W. — BOOK 1622 OF DEEDS AT PAGE 110)

CB TF=287.63
INV(V)=283.93
INV(S)=283.90

FM MH TF=287.90
INV=286.60 TO TOP OF WATER

CB TF=287.55
INV(N)=284.50

CB TF=285.40
INV(N)=282.35

2,425.00'

SITE PLAN LEGEND:

- DENOTES STANDARD ROADWAY ASPHALT PAVEMENT — 6 / 27
- DENOTES CONCRETE SIDEWALK — 4 / 27
- DENOTES ASPHALT WING CURB — 15 / 27
- DENOTES POURED IN PLACE CONCRETE VERTICAL CURB — 3 / 27
- DENOTES CONCRETE CURB RAMP — 8 / 27, 13 / 27
- HANDICAP PARKING — 2 / 27, 11 / 27
- PARKING NUMBER
- SIGN
- POLE LIGHTS — 10 / 27
- ORNAMENTAL LIGHTS

DETAIL KEY: DETAIL NUMBER / SHEET NUMBER

SIGN LEGEND

SYMBOL	SIGN	MUTCD DESIGNATION	QUANTITY
STOP	"STOP" SIGN	R1-1	16
DEAD END	"DEAD END" SIGN	W14-1	1
AUTHORIZED VEHICLES ONLY	"AUTHORIZED VEHICLES ONLY" SIGN	WR5-11	1

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

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PROPOSED SITE IMPROVEMENTS FOR DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY: NLZ
CHECKED BY: JCD
EDP PROJECT NUMBER: 11578

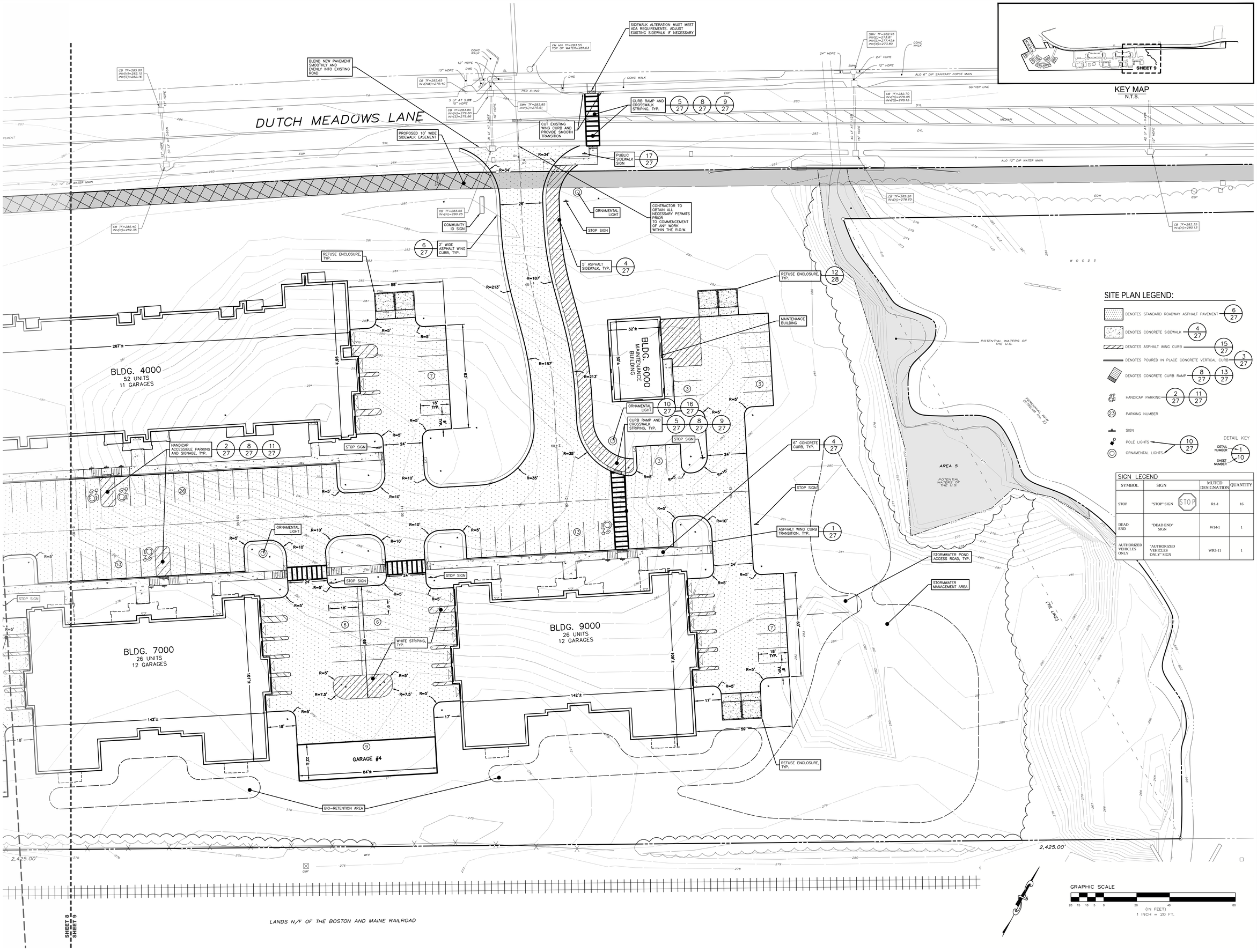
REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: SITE PLAN

SHEET: 8 of 29



KEY MAP
N.T.S.

SITE PLAN LEGEND:

- DENOTES STANDARD ROADWAY ASPHALT PAVEMENT — 6 / 27
- DENOTES CONCRETE SIDEWALK — 4 / 27
- DENOTES ASPHALT WING CURB — 15 / 27
- DENOTES POURED IN PLACE CONCRETE VERTICAL CURB — 3 / 27
- DENOTES CONCRETE CURB RAMP — 8 / 27, 13 / 27
- HANDICAP PARKING — 2 / 27, 11 / 27
- PARKING NUMBER
- SIGN
- POLE LIGHTS — 10 / 27
- ORNAMENTAL LIGHTS

DETAIL KEY: DETAIL NUMBER / SHEET NUMBER (e.g. 1 / 10)

SIGN LEGEND			
SYMBOL	SIGN	MUTCD DESIGNATION	QUANTITY
STOP	"STOP" SIGN	R1-1	16
DEAD END	"DEAD END" SIGN	W14-1	1
AUTHORIZED VEHICLES ONLY	"AUTHORIZED VEHICLES ONLY" SIGN	WR5-11	1

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: SITE PLAN

SHEET: 9 of 29

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2/26
- DENOTES YARD DRAIN — 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 1/26
- DENOTES RIP-RAP OVERFLOW — 9/26
- 264.50 DENOTES PROPOSED SPOT ELEVATION
- 264 DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR

CULLIGAN DRIVE

BALLSTON AVENUE
N.Y.S. ROUTE 50
(STATE HIGHWAY No. 5314)

LANDS N/F OF LUBERDA
BOOK 1782 OF DEEDS AT PAGE 562

LANDS N/F OF GRANDALL
BOOK 1067 OF DEEDS AT PAGE 401

LANDS N/F OF HARTFORD FUNDING, LTD.
BOOK 1598 OF DEEDS AT PAGE 25

BLDG #1 UNITS 1-4 GF=±269.0

BLDG #2 UNITS 5-8 GF=±268.50

BLDG #3 UNITS 9-12 GF=±268.5

BLDG #4 UNITS 13-16 GF=±275.5

ROAD A

AREA 3

POTENTIAL WATERS OF THE U.S.

APPROX. LIMITS OF DISTURBANCE

STRUCTURAL BOX CULVERT AT ROAD CROSSING

FES W/RIP RAP 15" INV=261.25

FOREBAY SPILLWAY ELEV.=261.50

SMA ACCESS ROAD

SMA#13

SMA#10

Structure – (13S) TF=261.50

CB#1 TF=266.77

CB#2 TF=266.77

CB#3 TF=267.43

CB#4 TF=267.43

CB#5 TF=268.00

FM MH#1 TF=267.61

CB TF=266.35 INV(NE)=261.53 INV(SW)=261.53

CB TF=270.35 INV(NE)=265.55 INV(SW)=264.85

CB TF=266.00 INV(NE)=260.60 INV(SW)=260.35

CB TF=262.75 INV(NE)=257.75 INV(SE)=257.55 INV(SW)=256.25

CB TF=267.10 15" INV(SW)=263.54 4" INV(NE)=264.00 15" INV(NE)=263.50

CB TF=265.90 INV(C)=261.90

CB TF=266.10 INV(N)=260.75 INV(NE)=263.30 INV(SE)=263.40 INV(S)=262.10 INV(W)=260.45

CB TF=266.50 INV=260.8

CBW TF=271.05 INV(NE)=265.30 INV(SW)=265.20

CBW TF=273.05 INV(SE)=266.95 INV(SW)=266.75 INV(N)=268.05

CBW TF=273.55 INV(C)=268.04

CB TF= INV(NE)= -4.64 INV(SW)= -4.78

CBW TF=272.35 INV(N)=267.71 INV(SW)=267.63

CB TF=272.60 INV(NE)=267.60 INV(SW)=267.50

CBW TF=273.30 INV(C)=267.75

75LF @ 2.07%

15" HDPE

15" HDPE 51M

158 LF @ 1.08%

15" HDPE 4 LF @ 2.5%

15" HDPE 15" @ 24.43%

61LF @ 5.15%

18" RCP

24" HDPE

30" HDPE

2002 R.O.W.

LIMIT OF TOWN OF GUILDERLAND DEDICATION

6" FUEL LINE

STONE WALL

GUIDE RAIL

PAINTED MEDIAN

ASPHALT PAVEMENT

ASPHALT DRIVE

CONC WALK

LAWN

SHED

TP #1

IPF

SHEET
SHEET

KEY MAP
N.T.S.

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
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TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING PLAN

SHEET: 10 of 29

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\05_GPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:24:24AM

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2/26
- DENOTES YARD DRAIN — 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 1/26
- DENOTES RIP-RAP OVERFLOW — 9/26
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR

GRAPHIC SCALE
1 INCH = 20 FT.
(IN FEET)
0 5 10 20 40 80

KEY MAP
N.T.S.

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

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SHEET: 11 of 29

SHEET TITLE: GRADING PLAN

NOT FOR CONSTRUCTION

SCALE: 1" = 20'

DRAWN BY: TMZ
CHECKED BY: DJS
PROJECT NUMBER: 1376

REVISION | DATE | BY

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\05_GPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:24:35AM,

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2/26
- DENOTES YARD DRAIN — 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 1/26
- DENOTES RIP-RAP OVERFLOW — 9/26
- DENOTES PROPOSED SPOT ELEVATION (e.g. 284.50)
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR

KEY MAP
N.T.S.

PHASE III

PHASE I

DUTCH MEADOWS LANE

APPROX. LIMITS OF DISTURBANCE

APPROX. LIMITS OF DISTURBANCE INSTALL ORANGE CONSTRUCTION FENCE ALONG LIMITS OF CLEARING

AREA 1 — POTENTIAL WATERS OF THE U.S.

AREA 2 — POTENTIAL WATERS OF THE U.S.

AREA 4 — POTENTIAL WATERS OF THE U.S.

WOODS

PHRAGMITES

BLDG. 1000
26 UNITS
12 GARAGES
FF ELEV.=±280.30
GF ELEV.=±280.05

BLDG. 2000
52 UNITS
11 GARAGES
FF ELEV.=±282.7
GF ELEV.=±282.45

BLDG. 3000
COMMUNITY CENTER
FF ELEV.=±281.9

GARAGE #1
FF ELEV.=±280.00

FM MH#3 TF=282.11

CB TF=281.55 INV(E)=278.45

INV=279.45

INV=280.60

CB TF=284.25 INV(W)=281.25 INV(E)=281.45 INV(S)=281.25±

SMH TF=281.60 INV(S)=277.95

SMH TF=285.25 INV(W)=281.93 INV(E)=281.69

CB#25 TF=281.25

SMA#9

FES#15 W/RIP RAP 12" INV=276.00

FES#5 W/RIP RAP 24" INV=272.75

SMA#3

CB#16 TF=279.86

FOREBAY SPILLWAY ELEV= 275.00

CB#21 TF=280.90

YARD DRAIN #1 TF=282.00

YARD DRAIN #2 TF=282.00

CB#24 TF=280.95

CB#17 TF=276.00

STORMWATER AREA FENCE

STANDPIPE#2 TF=273.75

CB#15 TF=274.50

SMA#2

CB#20 TF=279.90

YARD DRAIN #10 TF=279.50

YARD DRAIN #11 TF=279.50

YARD DRAIN #12 TF=279.50

YARD DRAIN #9 TF=279.00

GRADE BREAK

CB#23 TF=280.40

SMA ACCESS ROAD

FES#13 W/RIP RAP 12" INV=274.00

FES#12 W/RIP RAP 12" INV=275.00

FES#4 W/RIP RAP 15" INV=272.00

EMERGENCY OVERFLOW SPILLWAY ELEV.=276.25

LANDS N/F OF THE BOSTON AND MAINE RAILROAD

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

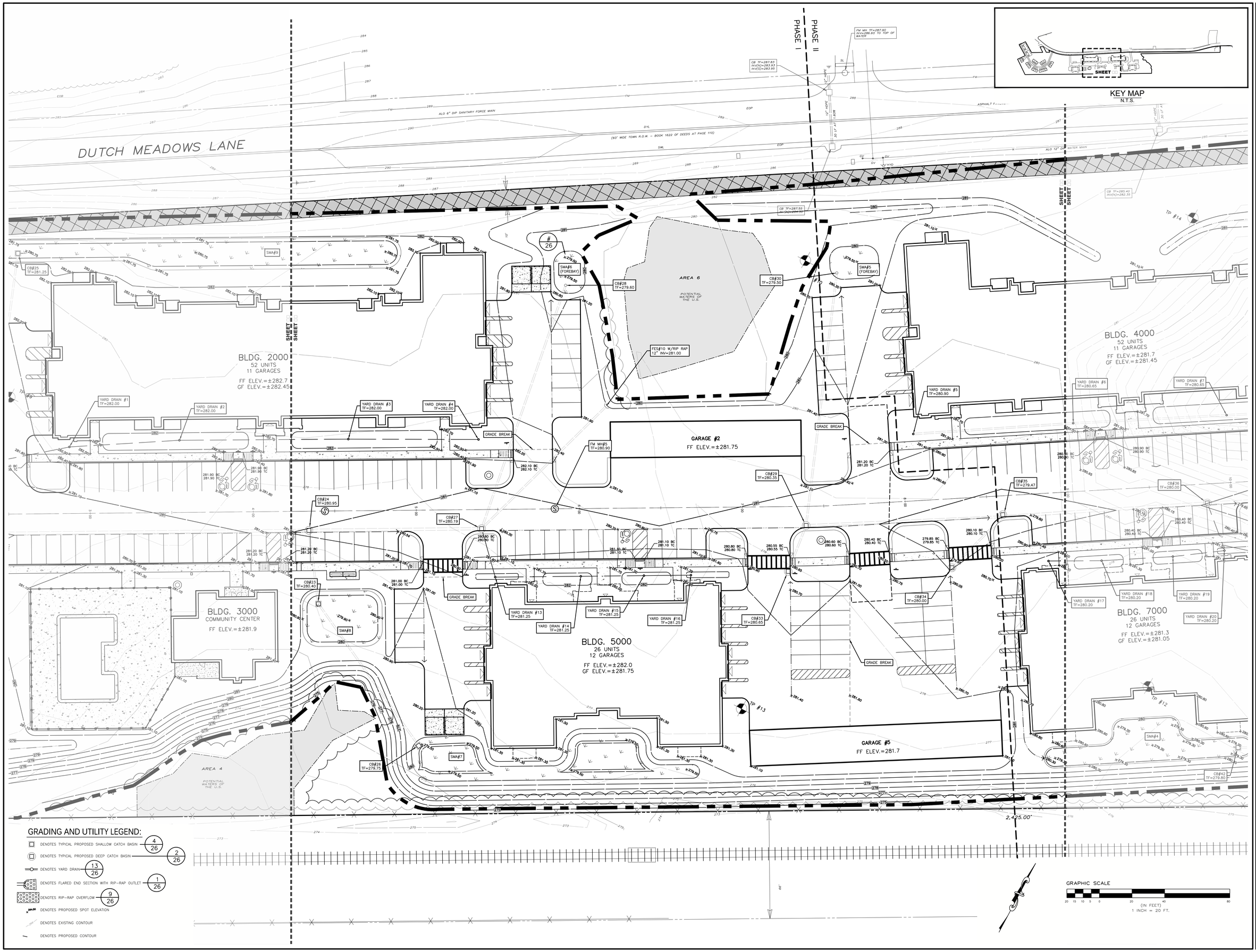
REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING PLAN

SHEET: 12 of 29



GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4 / 26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2 / 26
- DENOTES YARD DRAIN — 13 / 26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 1 / 26
- DENOTES RIP-RAP OVERFLOW — 9 / 26
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

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PROPOSED SITE IMPROVEMENTS FOR DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING PLAN

SHEET: 13 of 29

DUTCH MEADOWS LANE

BLDG. 4000
52 UNITS
11 GARAGES
FF ELEV.=±281.7
GF ELEV.=±281.45

BLDG. 7000
26 UNITS
12 GARAGES
FF ELEV.=±281.3
GF ELEV.=±281.05

BLDG. 6000
MAINTENANCE BUILDING
FF ELEV.=±281.2

BLDG. 9000
26 UNITS
12 GARAGES
FF ELEV.=±280.8
GF ELEV.=±280.55

GARAGE #4
FF ELEV.=280.6

AREA 5
POTENTIAL WATERS OF THE U.S.

POTENTIAL WATERS OF THE U.S.

PERENNIAL JURISDICTIONAL WATERS OF THE U.S.

APPROX. LIMITS OF DISTURBANCE

FOREBAY SPILLWAY ELEV= 276.00

STORMWATER AREA FENCE

EMERGENCY OVERFLOW SPILLWAY ELEV= 278.00

STANDPIPE#4 TF=275.75

SMA#1

SMA#3

SMA#4

GRADE BREAK

2,425.00'

LANDS N/F OF THE BOSTON AND MAINE RAILROAD

LANDS N/F OF THE BOSTON AND MAINE RAILROAD

KEY MAP
N.T.S.

SHEET

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2/26
- DENOTES YARD DRAIN — 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 1/26
- DENOTES RIP-RAP OVERFLOW — 9/26
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

SHEET
SHEET

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PROPOSED SITE IMPROVEMENTS FOR
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RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY: NLZ
CHECKED BY: JCD
EDP PROJECT NUMBER: 11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING PLAN

SHEET: 14 of 29

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2/26
- DENOTES YARD DRAIN — 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 11/26
- DENOTES RIP-RAP OVERFLOW — 9/26
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE — 9/29, 2/29
- DENOTES PROPOSED SEWER SERVICE LINE — 3/29
- DENOTES PROPOSED HYDRANT ASSEMBLY — 4/28, 7/28
- DENOTES PROPOSED M.J. BEND — 6/28
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE — 6/28
- DENOTES WATER SERVICE LINE — 8/28, 2/28
- E-ONE GRINDER PUMP — 8/29
- DENOTES TYPICAL PROPOSED LIGHT POLE

APPROXIMATE LOCATION OF PROPERTY, SHEETED/SHORED OPEN EXCAVATION FOR H.D.D. AND CONNECTION TO 45° M.J. BEND

APPROXIMATE LOCATION OF PROPERTY, SHEETED/SHORED OPEN EXCAVATION FOR H.D.D. AND CONNECTION TO 45° M.J. BEND

APPROXIMATE LOCATION OF PROPERTY, SHEETED/SHORED OPEN EXCAVATION FOR H.D.D. AND CONNECTION TO 45° M.J. BEND

APPROX. LOCATION EXISTING WATER MAIN. CONTRACTOR TO VERIFY THE EXACT SIZE, LOCATION AND DEPTH OF WATER MAIN PRIOR TO CONSTRUCTION.

APPROXIMATE LOCATION OF PROPERTY, SHEETED/SHORED OPEN EXCAVATION FOR H.D.D. END CRIMP, PIPE AND CONNECTION EXISTING WATER MAIN

CONNECT TO EXISTING 12" WATER MAIN WITH 12"DIP ALL BLOCK. SLEEVE SHALL BE HEAVY CONSTRUCTION TYPE, MANUFACTURED BY ROMAC INDUSTRIES, INC. MODEL SST OR S.S. FORD METER BOX SST II BY ROMAC. TRIPLE TAP SHALL BE MUELLER MODEL T-2360. OPEN LEFT. OR APPROVED EQUAL — 10/28

PROPOSED LOCATION OF PROPERTY, SHEETED/SHORED H.D.D. PIPE OR DOWN, END CRIMP, PIPE AND CONNECTION TO 45° M.J. BEND

(2) 45° M.J. BENDS W/THRUST BLOCKS

(2) 45° M.J. BENDS W/THRUST BLOCKS

(2) 45° M.J. BENDS W/THRUST BLOCKS

(2) 45° M.J. BENDS W/THRUST BLOCKS

2-0" TO 1.5" REDUCER PE 4710 IPS DR=11 FUSION OR WATER WORKS BRASS COMPRESSION COUPLING W/S.S. INSERT STIFFENERS

DROP-TYPE GRINDER PUMP (TYPICAL FOR EACH TOWNHOUSE UNIT) — 8/29

DROP-TYPE E-ONE GRINDER PUMP (TYPICAL FOR EACH TOWNHOUSE UNIT)

SMRTH. BIORETENTION AREA

AREA 3

POTENTIAL WETLAND TO BE DISTURBED

ROAD A

BLDG #1 UNITS 1-4

BLDG #2 UNITS 5-8

BLDG #3 UNITS 9-12

BLDG #4 UNITS 13-16

BALLSTON AVENUE
N.Y.S. ROUTE 50
(STATE HIGHWAY NO. 5314)

CULLIGAN DRIVE

LANDS N/F OF LUBERDA
BOOK 1782 OF DEEDS AT PAGE 562

LANDS N/F OF CANNOLL
BOOK 1606 OF DEEDS AT PAGE 401

LANDS N/F OF HARTFORD FUNDING, LTD.
BOOK 1668 OF DEEDS AT PAGE 69

SHEET □□
SHEET □□

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

KEY MAP
N.T.S.

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

REVISION	DATE	BY
ADDED SHEETED/SHORED OPEN EXCAVATION FOR H.D.D. AND CONNECTION TO 45° M.J. BEND	2/14/20	TMJ

DRAWN BY: TMJ
CHECKED BY:
PROJECT NUMBER: 1376

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: UTILITY PLAN

SHEET: 15 of 29

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G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\06_UPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:26:57AM,

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26, 2/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 13/26
- DENOTES YARD DRAIN — 11/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 9/26
- DENOTES RIP-RAP OVERFLOW
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE — 9/29, 2/29
- DENOTES SEWER SERVICE LINE — 3/29
- DENOTES PROPOSED HYDRANT ASSEMBLY — 4/28, 7/28
- DENOTES PROPOSED W.J. BEND — 6/28
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED W.J. TEE — 6/28
- DENOTES WATER SERVICE LINE — 8/28, 2/28
- E-ONE GRINDER PUMP
- DENOTES TYPICAL PROPOSED LIGHT POLE — 8/29

DWG. E-ONE GRINDER PUMP STATION (TYPICAL FOR EACH TOWNHOUSE UNIT)

(2) 45° W.J. BENDS W/THRUST BLOCKS

APPROXIMATE LOCATION OF PROPERLY SHEETED/SHORED OPEN EXCAVATION FOR 45° W.J. BEND AND CONNECTION TO 45° W.J. BEND

SWM #1 BIORETENTION AREA

STRUCTURAL CULVERT

ROAD A

DUTCH MEADOWS LANE

BLDG #1 UNITS 1-4

BLDG #2 UNITS 5-8

BLDG #3 UNITS 9-12

BLDG #4 UNITS 13-16

BLDG #5 UNITS 17-19

BLDG #6 UNITS 20-22

BLDG #7 UNITS 23-26

BLDG #8 UNITS 27-30

STORM UNIT

AREA 3

SHEET 6

SHEET 7

SHEET 8

SHEET 9

KEY MAP N.T.S.

GRAPHIC SCALE

1 INCH = 20 FT. (IN FEET)

20 10 0 20 40 80

PROPOSED SITE IMPROVEMENTS FOR

DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

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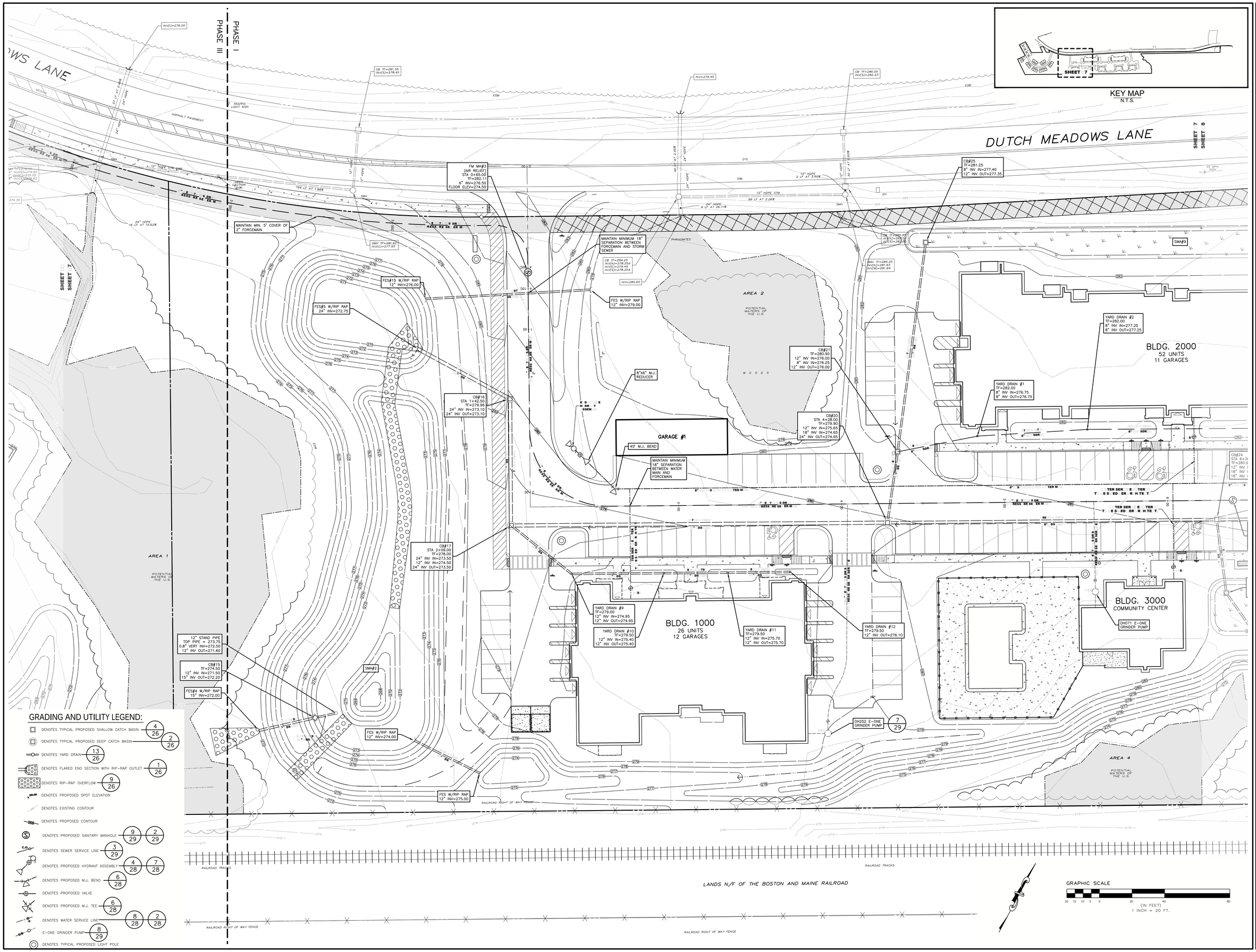
SHEET: 16 of 29

SHEET TITLE: UTILITY PLAN

NOT FOR CONSTRUCTION

SCALE: 1" = 20'

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\06_UPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:27:05AM,



GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN (4/26)
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN (2/26)
- DENOTES YARD DRAIN (13/26)
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET (1/26)
- DENOTES RIP-RAP OVERFLOW (9/26)
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE (9/29, 2/29)
- DENOTES SEWER SERVICE LINE (3/29)
- DENOTES PROPOSED HYDRANT ASSEMBLY (4/28, 7/28)
- DENOTES PROPOSED M.J. BEND (6/28)
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE (6/28)
- DENOTES WATER SERVICE LINE (8/28, 2/28)
- E-ONE GRINDER PUMP (8/29)
- DENOTES TYPICAL PROPOSED LIGHT POLE

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TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR

DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: UTILITY PLAN

SHEET: 17 of 29

6"X3" WET TAP CONNECTION TO EXISTING 6" DUCTILE IRON FORCEMAIN. TAP SIDE AWAY FROM ROAD USING AN ALL STAINLESS-STEEL TAPPING SLEEVE AND VALVE. SLEEVE SHALL BE HEAVY CONSTRUCTION TYPE, HAVE REMOVABLE BOLTS, FULL CIRCUMFERENTIAL GASKET, AND STAINLESS STEEL FLANGE., SUCH AS MODEL FTSS BY FORD METER BOX. SST III BY ROMAC TRIPLE TAP SERIES TS BY TIPS OR APPROVED EQUAL. 3" TAPPING SLEEVE SHALL BE MUELLER, MODEL T-2362, OPEN LEFT OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY TYPE, SIZE AND LOCATION OF EXISTING FORCEMAIN PRIOR TO CONSTRUCTION. ANY DISCREPANCIES, NOTIFY SITE ENGINEER.

BACK TAP RISER ASSEMBLY. TWO 3" PE 4710 IPS DR-11 90° BENDS FUSED TO 3" PE RISER PIPE, HEIGHT AS NECESSARY, AND HORIZONTAL STUBS, LENGTH AS NECESSARY. FUSE TOP 90° BEND STUB TO FUSION X MJ ADAPTER AND CONNECT TO TAPPING VALVE WITH S.S. INSERT STIFFENER. CUT H.D.D. PIPE TO MEET BOTTOM 90° BEND STUB AND JOIN WITH EF COUPLING.

CONNECT TO EXISTING 12" DIP WATER MAIN. CONNECT TO END OF EXISTING WATER MAIN WITH 12"X8" M.J. TEE WITH VALVES.

CONTRACTOR TO USE CARE TO AVOID EXISTING ELECTRICAL HANDLER.

12" DIP WATER MAIN STUB. SEAL END WITH M.J. CAP AND THRUST BLOCK

PHASE II
PHASE I

DUTCH MEADOWS LANE

(60' WIDE TOWN R.O.W. – BOOK 1622 OF DEEDS AT PAGE 110)

SHEET 7
SHEET 8

ALO 6" DIP SANITARY FORCE MAIN

ALO 12" DIP WATER MAIN

WH484 E-ONE GRINDER PUMP 6/29

WATER METER PIT#2 REFER TO DETAIL. TF=±281.0 6" INV=274.00 FLOOR ELEV.=272.00 3/28 9/28

FM MH TF=287.90 IN=286.60 TO TOP OF WATER

CB TF=287.63 IN(V)=283.93 IN(S)=283.90

CB TF=285.40 IN(V)=282.35

CB TF=287.55 IN(W)=284.50

CB#25 TF=281.25 8" INV IN=277.40 12" INV OUT=277.35

CB#28 TF=279.60 12" INV OUT=277.50

CB#30 TF=279.50 12" INV OUT=277.40

AREA 6
POTENTIAL WATERS OF THE U.S.

FES#10 W/RIP RAP 12" INV=281.00

MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND FORCEMAIN, TYP.

YARD DRAIN #2 TF=282.00 8" INV IN=277.25 8" INV OUT=277.25

YARD DRAIN #1 TF=282.00 8" INV IN=276.75 8" INV OUT=276.75

YARD DRAIN #4 TF=282.00 8" INV OUT=278.30

YARD DRAIN #3 TF=282.00 8" INV IN=277.90 8" INV OUT=277.90

BLDG. 2000
52 UNITS
11 GARAGES

BLDG. 4000
52 UNITS
11 GARAGES

YARD DRAIN #5 TF=280.90 12" INV OUT=277.50

YARD DRAIN #6 TF=280.65 12" INV IN=276.80 12" INV OUT=276.80

YARD DRAIN #7 TF=280.65 12" INV IN=276.35 12" INV OUT=276.35

CB#24 STA 6+30.00 TF=280.95 12" INV IN=276.15 18" INV IN=275.65 18" INV OUT=275.65

CB#27 STA 7+36.00 TF=280.19 12" INV IN=276.70 12" INV IN=276.70 8" INV IN=277.00 18" INV OUT=276.20

CB#29 STA 9+34.99 TF=280.35 12" INV IN=276.60 12" INV IN=276.60 15" INV OUT=276.60

GARAGE #2

YARD DRAIN #16 8" INV OUT=277.90

CB#36 STA 11+81.00 TF=280.00 8" INV IN=276.00 18" INV IN=275.30 18" INV OUT=275.30

8"X8" M.J. TEE W/VALVES

FM MH#4 (AIR RELIEF) STA 6+40.00 TF=281.26 6" INV=271.70 FLOOR ELEV=273.70

FM MH#5 (IN LINE CLEANOUT) STA 7+80.99 TF=280.90 6" INV=0.00 FLOOR ELEV=271.00

MAINTAIN 18" SEPARATION BETWEEN WATER MAIN AND STORM SEWER, TYP.

CB#23 TF=280.40 12" INV IN=276.55 12" INV OUT=276.55

BLDG. 3000
COMMUNITY CENTER

DH071 E-ONE GRINDER PUMP

YARD DRAIN #13 TF=281.25 8" INV IN=277.20 8" INV OUT=277.20

YARD DRAIN #14 TF=281.25 8" INV IN=277.50 8" INV OUT=277.50

YARD DRAIN #15 TF=281.25 8" INV IN=277.70 8" INV OUT=277.70

BLDG. 5000
26 UNITS
12 GARAGES

CB#33 TF=280.65 12" INV OUT=276.75

CB#34 TF=280.00 12" INV OUT=277.00

CB#35 STA 10+55.33 TF=279.47 15" INV IN=276.00 12" INV IN=276.25 18" INV OUT=276.00

YARD DRAIN #17 TF=280.20 8" INV OUT=278.50

YARD DRAIN #18 TF=280.20 8" INV IN=278.30 8" INV OUT=278.30

YARD DRAIN #19 TF=280.20 8" INV IN=277.90 8" INV OUT=277.90

BLDG. 7000
26 UNITS
12 GARAGES

YARD DRAIN #20 TF=280.20 8" INV IN=277.70 8" INV OUT=277.00

CB#42 TF=279.80 8" INV IN=276.00 12" INV OUT=276.00

2.0" TO 3.0" REDUCER/INCREASER, EITHER PE 4710 IPS (ASTM D3035) DR-11 FUSION OR WATER WORKS BRASS COMPRESSION CONNECTIONS FOR I.P.S. O.D. PIPE WITH S.S. INSERT STIFFENERS.

GARAGE #5

AREA 4
POTENTIAL WATERS OF THE U.S.

CB#26 TF=279.75 8" INV IN=276.15 12" INV OUT=277.15

DH272 E-ONE GRINDER PUMP 7/29

RR R.O.W. FENCE

2,425.00'

SHEET 8
SHEET 9

RAILROAD TRACKS

BRIDGE

66'

RAILROAD RIGHT OF WAY FENCE

KEY MAP
N.T.S.

SHEET 8

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN 2/26
- DENOTES YARD DRAIN 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET 1/26
- DENOTES RIP-RAP OVERFLOW 9/26
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE 9/29 2/29
- DENOTES SEWER SERVICE LINE 3/29
- DENOTES PROPOSED HYDRANT ASSEMBLY 4/28 7/28
- DENOTES PROPOSED M.J. BEND 6/28
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE 6/28
- DENOTES WATER SERVICE LINE 8/28 2/28
- E-ONE GRINDER PUMP 8/29
- DENOTES TYPICAL PROPOSED LIGHT POLE

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY: NLZ
CHECKED BY: JCD
EDP PROJECT NUMBER: 11578

REVISION	DATE	BY

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: UTILITY PLAN

SHEET: 18 of 29

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freeways Bridge Rd - RBC\05-dwg\Stakeout Plans\SHEET1\06_UPLN_DUTCHMEADOWS.dwg Mar 21, 2020 09:27:26AM

DUTCH MEADOWS LANE

ALO 12" DIP WATER MAIN

ALO 6" DIP SANITARY FORCE MAIN

CONC WALK

GUTTER LINE

MEDIAN

CONC RET WALL

CONC HW

WOODS

STONEWAL

POTENTIAL WATERS OF THE U.S.

PERENNIAL/INTERMITTENT (STREAM "A" P-3)

AREA 5

POTENTIAL WATERS OF THE U.S.

BLDG. 4000
52 UNITS
11 GARAGES

BLDG. 6000
MAINTENANCE BUILDING

BLDG. 7000
26 UNITS
12 GARAGES

BLDG. 9000
26 UNITS
12 GARAGES

GARAGE #4

SMA#1

SMA#2

SMA#3

SMA#4

CB#40
TF=280.00
12" INV OUT=276.25

CB#45
STA 1+86.25
TF=280.59
12" INV OUT=275.00

CB#44
STA 13+92.05
TF=279.65
24" INV IN=273.60
12" INV IN=274.60
24" INV OUT=273.60

CB#41
TF=279.60
12" INV IN=275.40
12" INV IN=275.40
15" INV OUT=275.15

DH071 E-ONE GRINDER PUMP

CB#46
TF=279.25
24" INV IN=273.20
8" INV IN=274.40
24" INV OUT=273.20

FES#6 W/RIP RAP
24" INV=272.75

YARD DRAIN #8
TF=556.70
12" INV IN=275.70
12" INV OUT=275.70

YARD DRAIN #6
TF=280.65
12" INV IN=276.80
12" INV OUT=276.80

YARD DRAIN #7
TF=280.65
12" INV IN=276.35
12" INV OUT=276.35

CB#39
STA 13+11.00
TF=278.93
12" INV IN=275.10
18" INV IN=274.60
15" INV IN=274.85
24" INV OUT=274.10

CB#36
STA 11+81.00
TF=280.00
8" INV IN=276.00
18" INV IN=275.30
18" INV OUT=275.30

18" MIN SEPARATION BETWEEN WATER MAIN AND STORM SEWER, TYP.

8"X6" M.J. REDUCER

45° M.J. BEND

FM MH#6
(E.O.L. AIR RELIEF)
STA 13+46.00
TF=279.61
8" INV=273.50
FLOOR ELEV=271.50

YARD DRAIN #22
TF=280.00
8" INV IN=275.40
8" INV OUT=275.40

YARD DRAIN #21
TF=280.00
8" INV OUT=275.70

YARD DRAIN #23
TF=280.00
8" INV IN=275.10
8" INV OUT=275.10

YARD DRAIN #24
TF=280.00
8" INV IN=274.75
8" INV OUT=274.75

CB#38
TF=279.20
12" INV IN=275.30
12" INV OUT=275.30

CB#37
STA 10+50.30
TF=279.40
12" INV OUT=275.50

CB#43
TF=279.00
8" INV IN=275.25
12" INV OUT=275.25

CB#32
TF=279.35
12" INV OUT=275.00

CB#31
TF=277.15
12" INV IN=272.00
18" INV OUT=271.50

8" STAND PIPE
TOP PIPE = 275.75
2.4" VERT INV=272.00
12" INV OUT=272.00

YARD DRAIN #18
TF=280.20
8" INV IN=278.30
8" INV OUT=278.30

YARD DRAIN #19
TF=280.20
8" INV IN=277.90
8" INV OUT=277.90

YARD DRAIN #20
TF=280.20
8" INV IN=277.70
8" INV OUT=277.00

CB#42
TF=279.80
8" INV IN=276.00
12" INV OUT=276.00

DH272 E-ONE GRINDER PUMP

DH272 E-ONE GRINDER PUMP

FES#9 W/RIP RAP
12" INV=274.50

FES#8 W/RIP RAP
12" INV=275.00

FES#11 W/RIP RAP
12" INV=274.20

FES#7 W/RIP RAP
18" INV=271.00

CB TF=285.80 INV(N)=282.15 INV(S)=282.16

CB TF=285.40 INV(N)=282.35

CB TF=283.65 INV(N)=279.40

CB TF=283.65 INV(N)=280.25

CB TF=283.80 INV(N)=279.80 INV(S)=279.86

SMH TF=283.85 INV(C)=279.97

CB TF=282.70 INV(N)=278.05 INV(S)=278.15

CB TF=282.30 INV(N)=278.60

CB TF=283.35 INV(N)=280.13

15" HDPE

12" HDPE

5 LF AT 5.5%

31 LF AT 1.5%

40 LF AT 1.2%

2,425.00'

RAILROAD TRACKS

LANDS N/F OF THE BOSTON AND MAINE RAILROAD

RR R.O.W. FENCE

RR BRIDGE WINGWALL

RRM

GMF

WFP

SHEET 8

SHEET 9

KEY MAP
N.T.S.

SHEET 9

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL PROPOSED SHALLOW CATCH BASIN — 4/26
- DENOTES TYPICAL PROPOSED DEEP CATCH BASIN — 2/26
- DENOTES YARD DRAIN — 13/26
- DENOTES FLARED END SECTION WITH RIP-RAP OUTLET — 1/26
- DENOTES RIP-RAP OVERFLOW — 9/26
- 284.50 DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- 280 DENOTES PROPOSED CONTOUR
- DENOTES PROPOSED SANITARY MANHOLE — 9/29, 2/29
- C.O. DENOTES SEWER SERVICE LINE — 3/29
- DENOTES PROPOSED HYDRANT ASSEMBLY — 4/28, 7/28
- DENOTES PROPOSED M.J. BEND — 6/28
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE — 6/28
- DENOTES WATER SERVICE LINE — 8/28, 2/28
- E-ONE GRINDER PUMP — 8/29
- DENOTES TYPICAL PROPOSED LIGHT POLE

GRAPHIC SCALE
20 15 10 5 0 20 40 80
(IN FEET)
1 INCH = 20 FT.

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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

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REVISION	DATE	BY

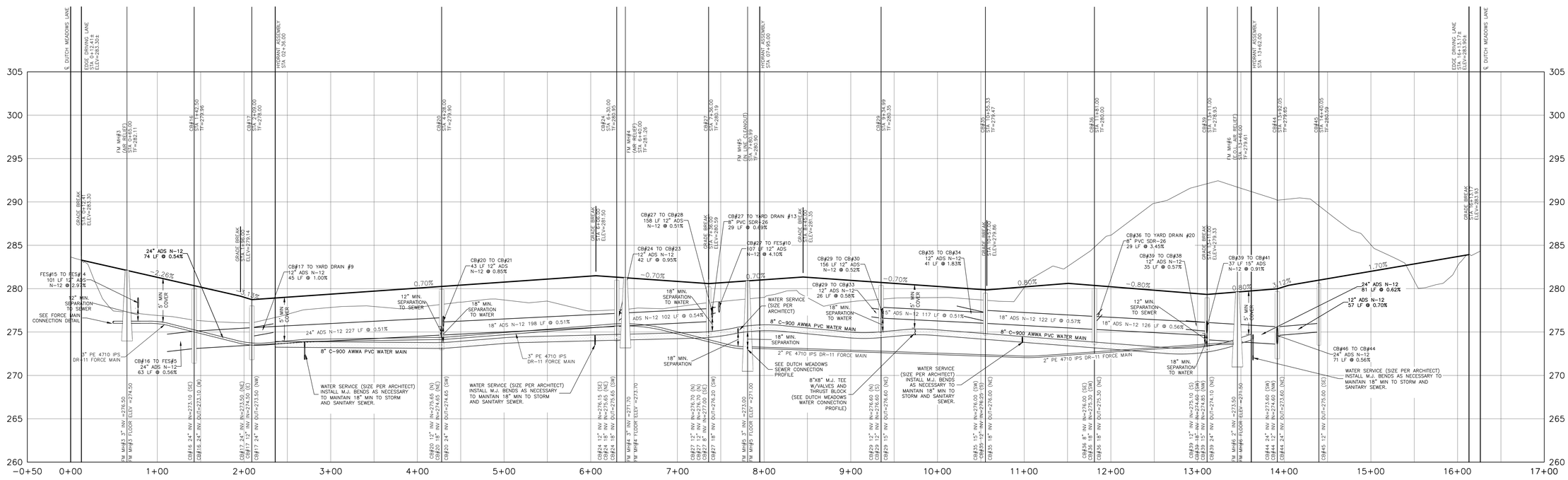
SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: UTILITY PLAN

SHEET: 19 of 29

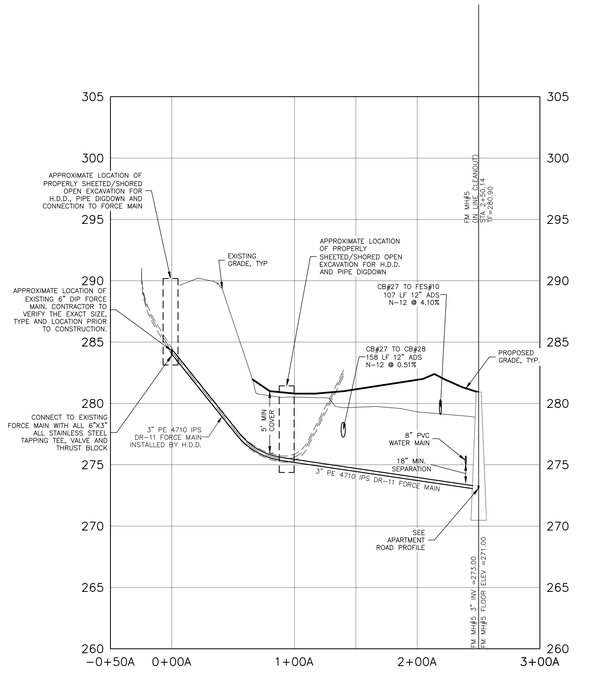
G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freeman's Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\06_UP_N_DUTCHMEADOWS.dwg Mar 21, 2020 09:27:34AM



APARTMENT ROAD AND UTILITY PROFILE

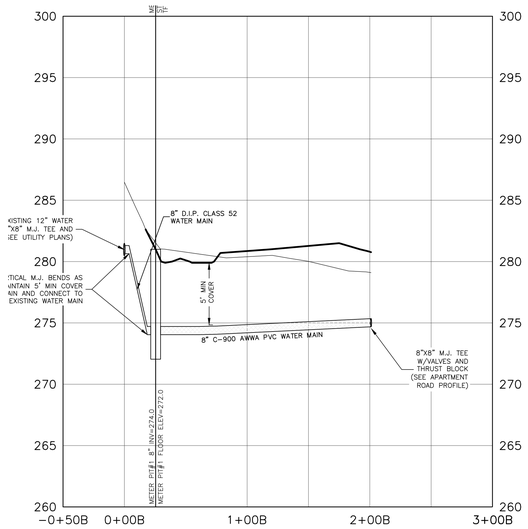
SCALE: HORIZONTAL 1"=50'
VERTICAL 1" = 5'

(STA −0+50 TO 13+50)



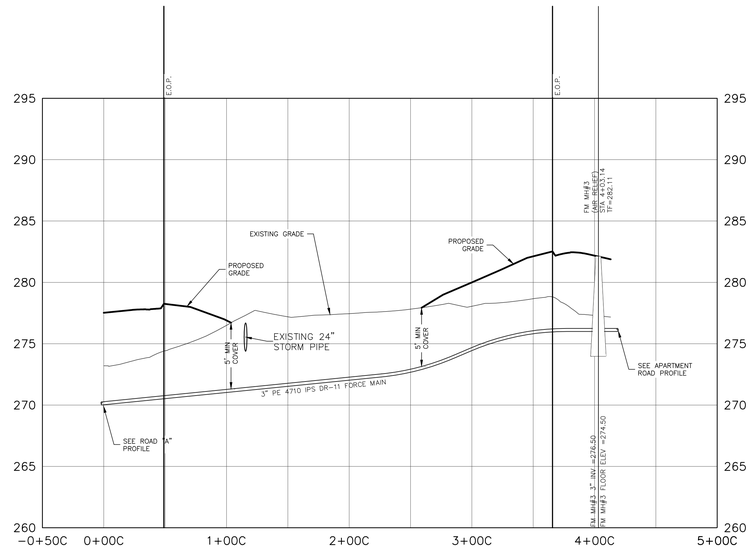
DUTCH MEADOWS SEWER CONNECTION PROFILE A

SCALE: HORIZONTAL 1"=50'
VERTICAL 1" = 5'



DUTCH MEADOWS WATER CONNECTION PROFILE B

SCALE: HORIZONTAL 1"=50' VERTICAL 1" = 5'



SANITARY SEWER CONNECTION PROFILE C

SCALE: HORIZONTAL 1"=50' VERTICAL 1" = 5'

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(518) 373-7421
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PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11537A

REVISION	DATE	BY

SCALE:
AS NOTED

NOT FOR CONSTRUCTION

SHEET TITLE:
ROAD AND UTILITY PROFILES

SHEET:
20 of 29

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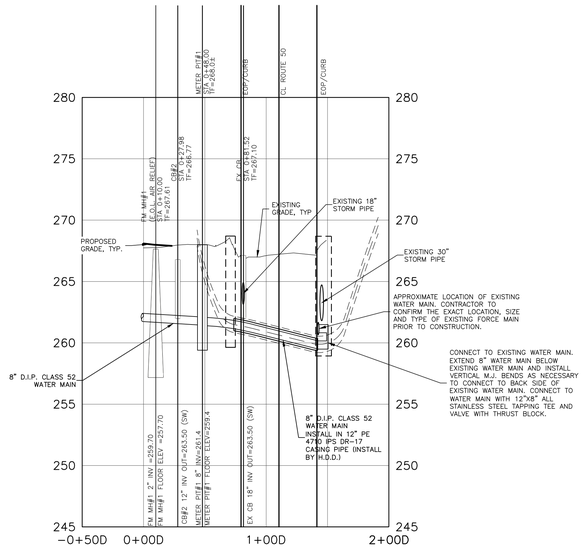
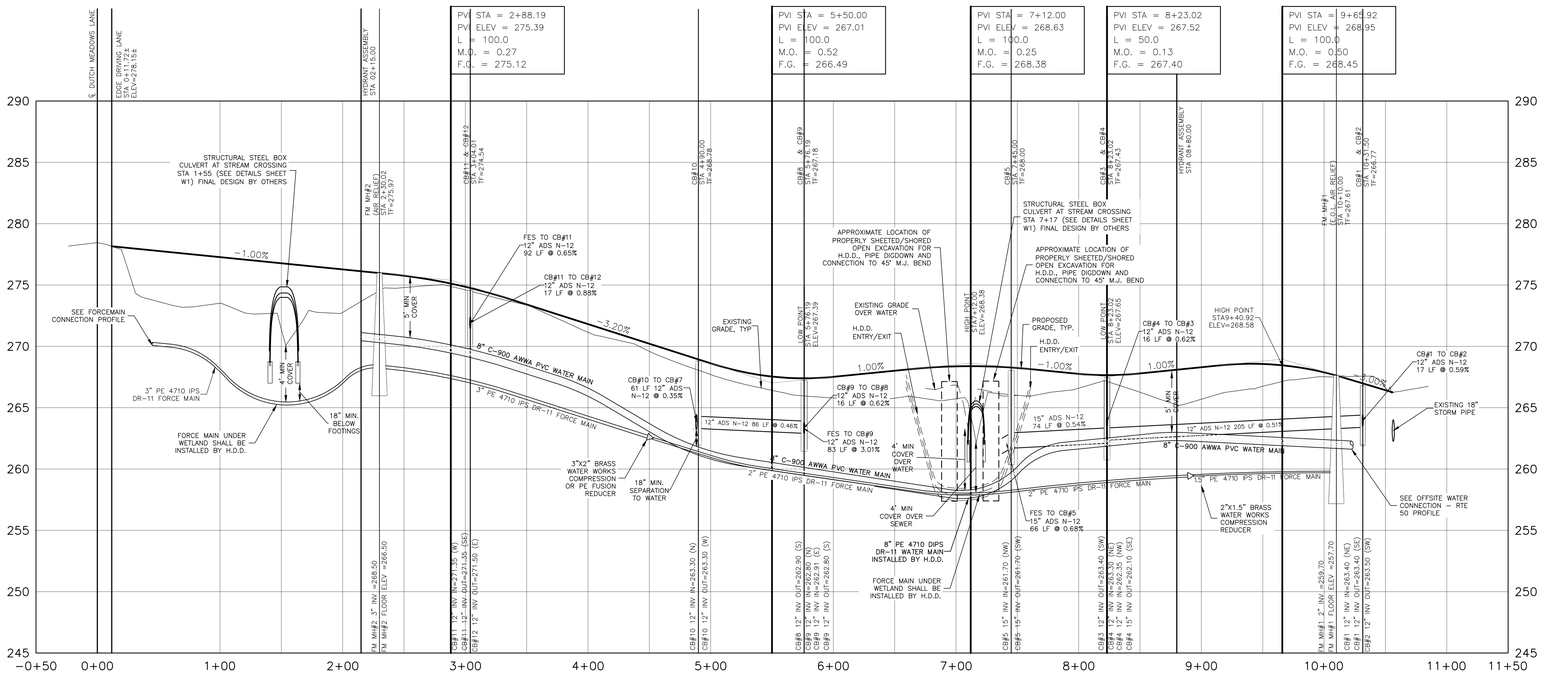


ROUTE 50 WATER MAIN CROSSING PROFILE D

SCALE: HORIZONTAL 1"=50' VERTICAL 1" = 5'



ROAD "A" ROAD AND UTILITY PROFILE

SCALE: HORIZONTAL 1"=50' VERTICAL 1" = 5'

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PROPOSED SITE IMPROVEMENTS FOR

DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11378

REVISION	DATE	BY

SCALE: AS NOTED

NOT FOR CONSTRUCTION

SHEET TITLE: ROAD AND UTILITY PROFILES

SHEET: 21 of 29

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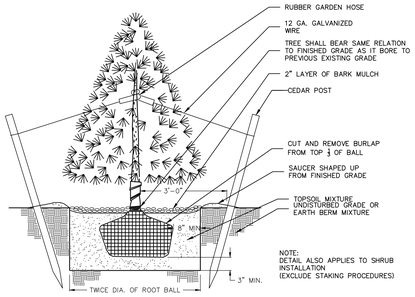
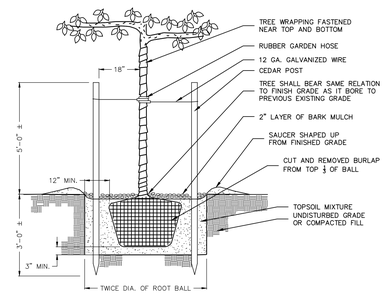


1/22 CONIFEROUS TREE PLANTING
NOT TO SCALE



2/22 DECIDUOUS TREE PLANTING
NOT TO SCALE

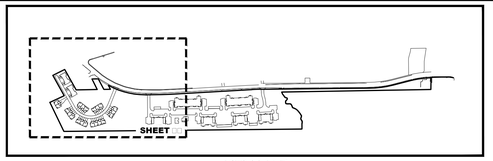
PLANTING NOTES:

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 PLANTED, MULCHED, PAVED, ETC. SHALL BE TOPSOILED AND SEEDED. 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.

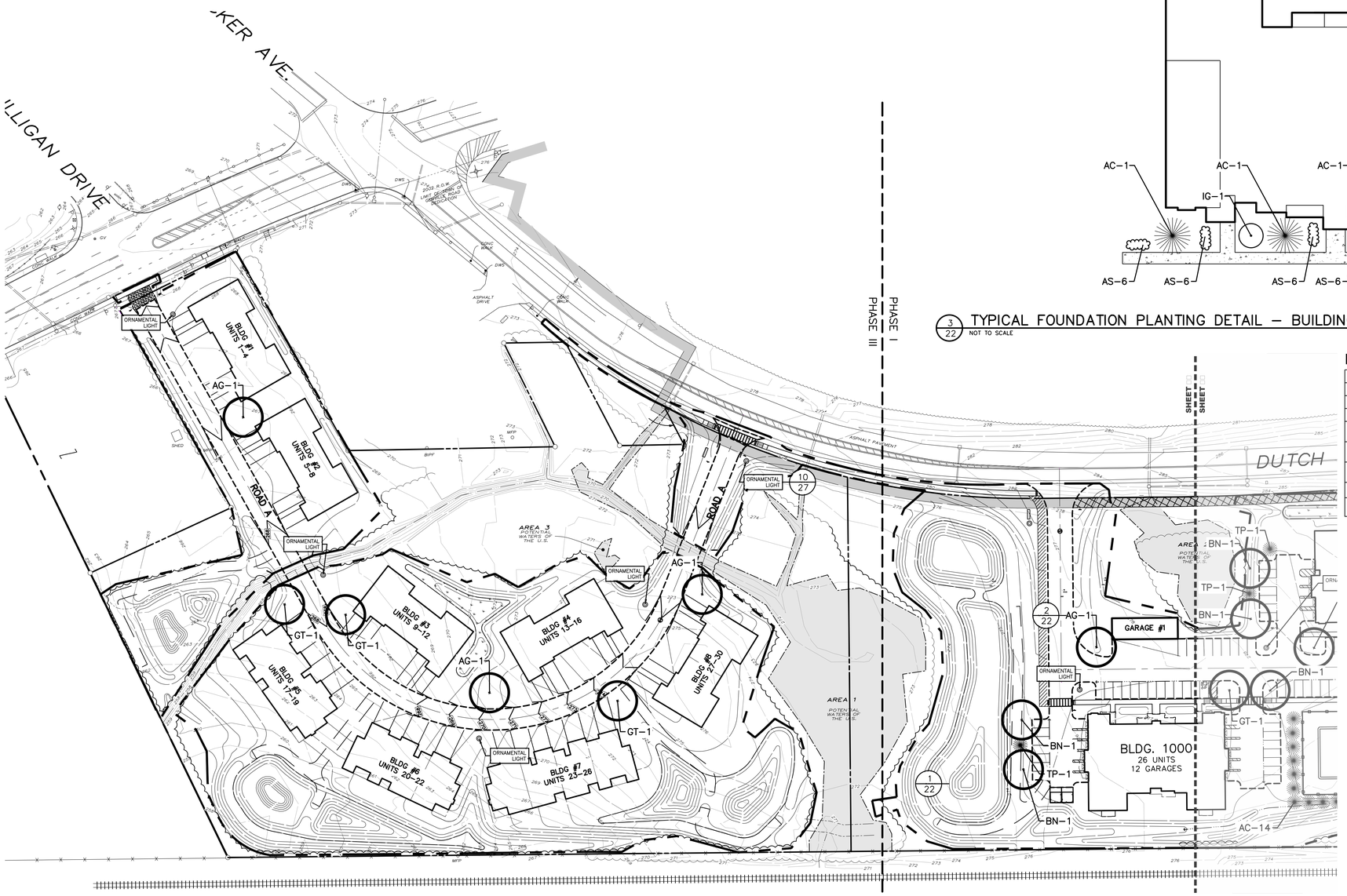
PLANTING NOTE:
PLANTS LISTED IN THE PLANTING SCHEDULE CAN BE SUBSTITUTED FOR SIMILAR SPECIES OF THE SAME SIZE WITH THE APPROVAL OF THE OWNER/DEVELOPER AND/OR PROJECT LANDSCAPE ARCHITECT. SHOULD A SUBSTITUTION BE OFFERED, THE DESIGN PROFESSIONAL SHALL BE NOTIFIED TO CONFIRM THAT THE SUBSTITUTED SPECIES ARE NOT REGULATED OR PROHIBITED SPECIES AS IDENTIFIED BY THE NYSDEC PART 575 INVASIVE SPECIES REGULATIONS.

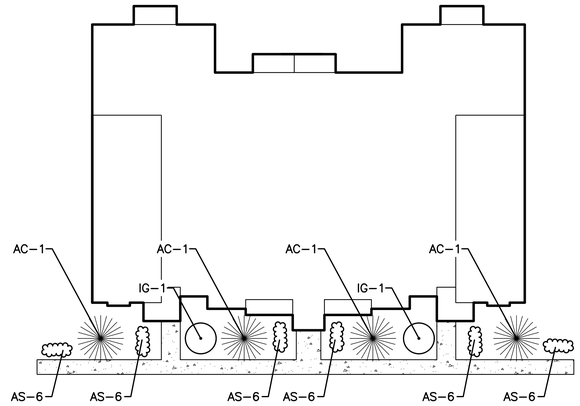
TOPSOIL NOTE:
ALL LAWN AREAS OF THE SITE SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL. ALL LANDSCAPE BEDS SHALL RECEIVE A MINIMUM OF 12" OF TOPSOIL.
TOP SOIL SHALL HAVE:
2% -20% ORGANIC MATTER
PH OF 6-7.6%
MAXIMUM PARTICLE SIZE 1.5"

LAWN SEED MIX:
SEED LAWN AREAS WITH GRASS SEED CONTAINING A MINIMUM 10% KENTUCKY BLUE GRASS, 40% FESCUE AND A MAXIMUM OF 20% ANNUAL RYE GRASS. SEED SHALL BE APPLIED AT A RATE OF 7-10 LBS PER 1,000 SF.



KEY MAP
N.T.S.





3/22 TYPICAL FOUNDATION PLANTING DETAIL – BUILDING TYPE 1
NOT TO SCALE

PLANTING SCHEDULE

KEY	COMMON	BOTANICAL	SIZE	NO.	REMARKS
AC	WHITE FIR	ABIES CONCOLOR	5-6' HT.	18	B□B
AG	PAPERBARK MAPLE	ACER GRISEUM	2-2.5" CAL.	6	B□B
AS	ASTILBE	ASTILBE CHINENSIS	□2 CONTAINER	144	CG
BN	RIVER BIRCH 'DURA HEAT'	BETULA NIGRA 'DURA HEAT'	2.5-3" CAL.	14	B□B
FC	FESTINA	FESTUCA CINEREA	□2 CONTAINER	120	CG
GT	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEYLOCUST 'SHADEMASTER'	1.75"-2" CAL.	8	B□B
IG	INKBERRY	ILEX GLABRA 'SHAMROCK'	18-24" HT.	16	CG OR B□B
TP	GREEN GIANT ARBORVITAE	THU□A PLICATA 'GREEN GIANT'	5'-6' HT.	11	B□B

GRAPHIC SCALE
50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

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FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC
DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY: NLZ
CHECKED BY: JCD
CDP PROJECT NUMBER: 11578

REVISION	DATE	BY

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: PLANTING PLAN

SHEET: 22 of 29

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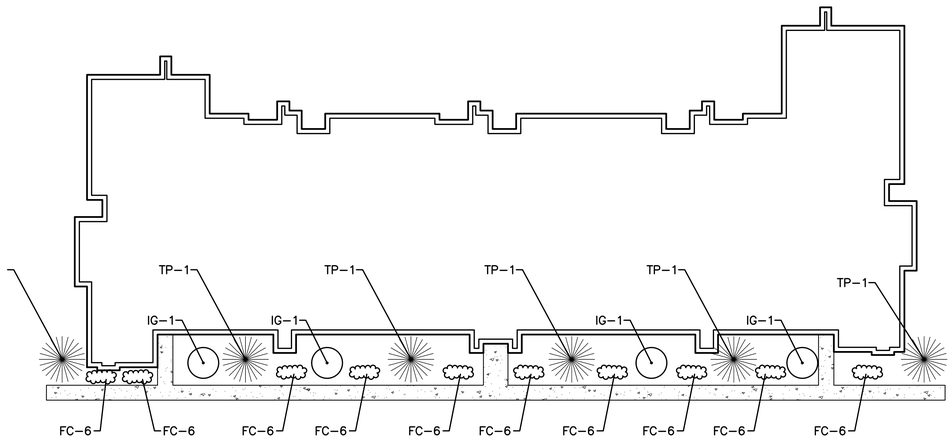
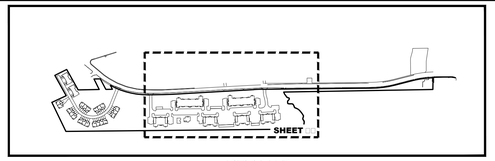


1/23 TYPICAL FOUNDATION PLANTING DETAIL – BUILDING TYPE 2
NOT TO SCALE



KEY MAP
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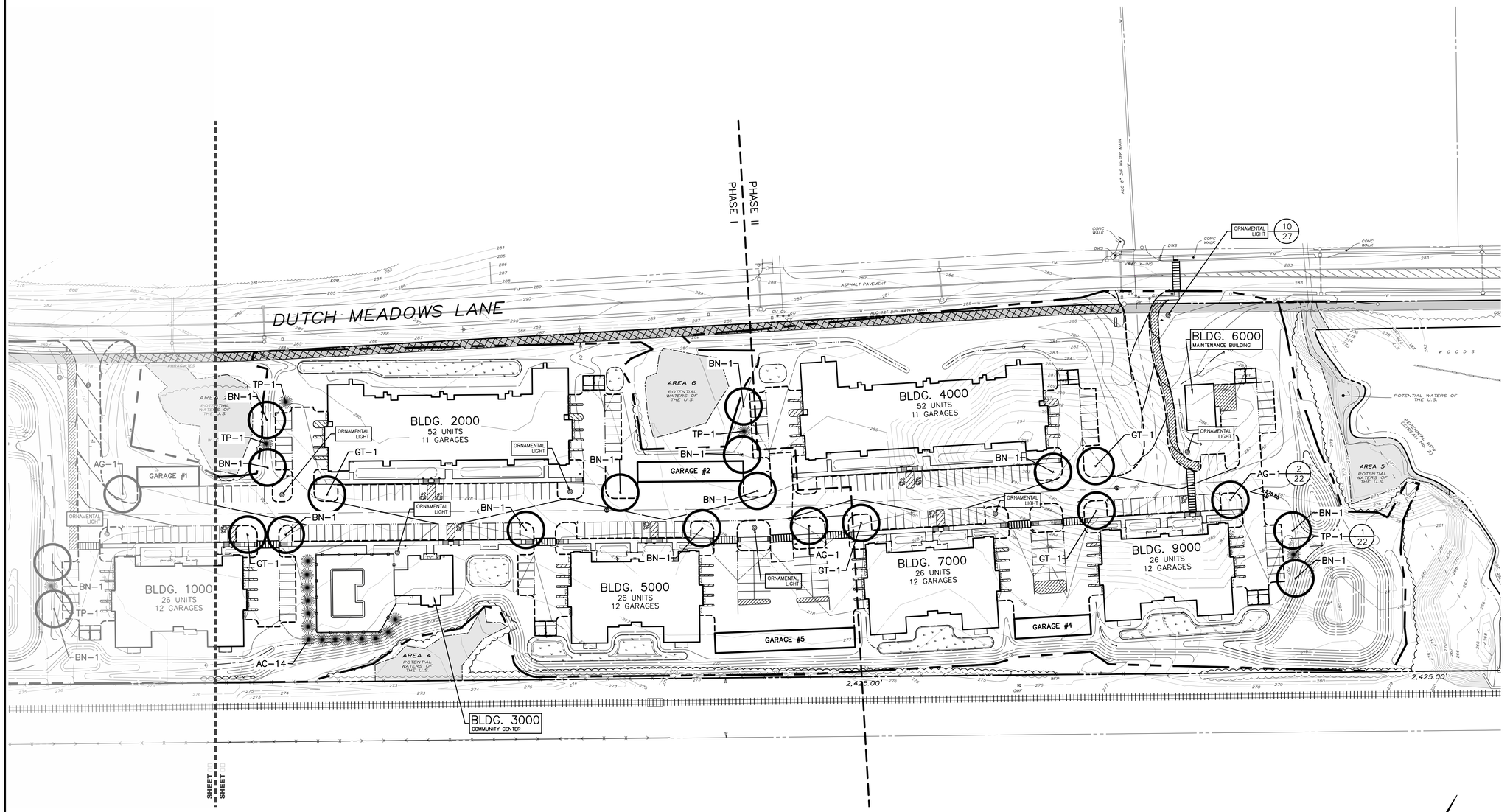

GRAPHIC SCALE
50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

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FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11576

REVISION	DATE	BY

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: PLANTING PLAN

SHEET: 23 of 29

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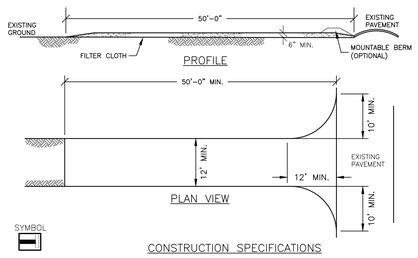
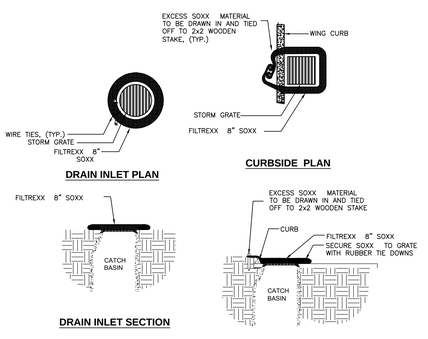


CONSTRUCTION SPECIFICATIONS

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.

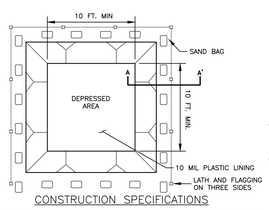
1/24 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS
3. COMPOSED MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

2/24 FILTER SOX INLET PROTECTION
NOT TO SCALE



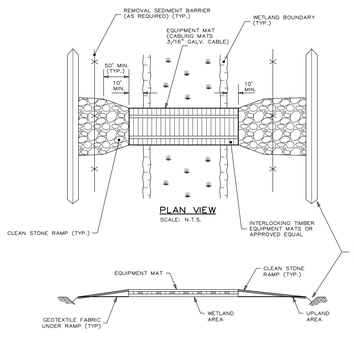
CONSTRUCTION SPECIFICATIONS

1. CONCRETE WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF FIFTY FEET (50') FROM SENSITIVE AREAS.
2. THE BASIN DIMENSIONS DEPICTED ABOVE ARE REQUIRED MINIMUMS. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. (APPROXIMATELY 60 GALLONS OF WASTE AND WATER PER TRUCK).
3. PLASTIC LINING MATERIAL SHALL BE A MINIMUM 10 MIN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
4. WASHOUT FACILITY MUST BE CLEANED, OR NEW FACILITES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

MAINTENANCE AND CLEANING

1. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND
2. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
3. PLACE A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
4. REMOVE AND DISPOSE OF HARDEN CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
5. INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NESSESARY(REUNE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).

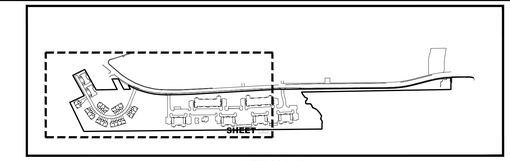
3/24 CONCRETE WASHOUT FACILITY
NOT TO SCALE



NOTES:

1) INSPECT ON A DAILY BASIS AND REMOVE BUILD-UP OF SEDIMENT AND DEBRIS.
2) MATERIALS PLACED IN WETLANDS SHALL BE COMPLETELY REMOVED DURING FINAL CLEAN-UP. REMOVAL OF THESE MATERIALS IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
3) IF A WATERBODY IS LOCATED WITHIN A WETLAND, EXTEND EQUIPMENT MATS TO THE BRIDGE EQUIPMENT CROSSING CONSTRUCTED TO CROSS THE WATERBODY IN ORDER TO ALLOW FOR CONTINUOUS EQUIPMENT MAT COVERAGE THROUGH THE WETLAND AND WATERBODY AREA.
4) USE ADDITIONAL EQUIPMENT MATS TO RAISE THE CROSSING ABOVE THE ELEVATION WHERE POOR SOIL CONDITIONS EXIST. A MAXIMUM OF 2 TIMBER MAT LAYERS MAY BE USED WITHIN WETLANDS UNLESS OTHERWISE APPROVED BY THE ENVIRONMENTAL INSPECTOR.
5) EQUIPMENT MATS SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE OF THE WETLAND AND WATERBODY BOUNDARIES.
6) INSTALL CLEAN STONE RAMP APPROACHES TO EQUIPMENT MATS IN WETLAND AREAS.
7) EQUIPMENT MATS ARE TO BE CONSTRUCTED OF 4'x4' WOOD MEMBERS, LINKED WITH 3/16" GALVANIZED STEEL CABLE TO ENSURE REMOVAL OF ALL MATS.

4/24 TIMBER MAT DETAIL
NOT TO SCALE

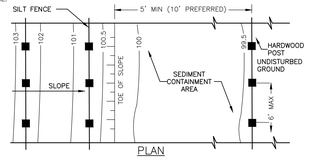


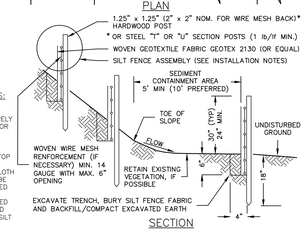
SILT FENCE GENERAL NOTES:

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 PERFFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

5/24 SILT FENCE
NOT TO SCALE

EROSION AND SEDIMENT CONTROL PLAN LEGEND:

- CATCH BASIN SEDIMENT BARRIER
- CHECK DAMS
- SILT FENCE
- EROSION CONTROL BLANKET
- STABILIZED CONSTRUCTION ENTRANCE
- SOIL STOCKPILE
- STAGING AREA
- CONCRETE WASHOUT
- SEDIMENT TRAP

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RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: 1" = 50'

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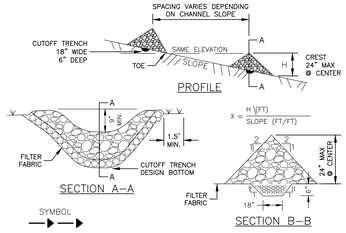
SHEET TITLE: EROSION & SEDIMENT CONTROL

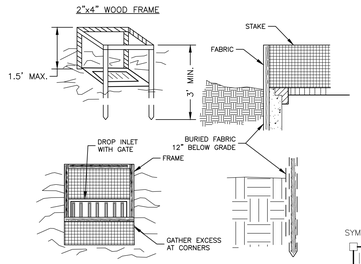
SHEET: 24 of 29



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOW OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LONER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA 2 ACRES.

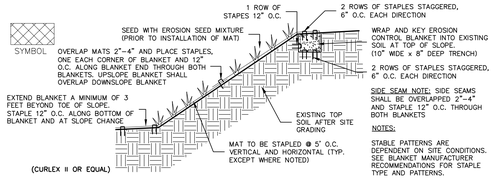
1/25 CHECK DAM
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85 BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAT 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE.

2/25 FILTER FABRIC INLET PROTECTION
NOT TO SCALE

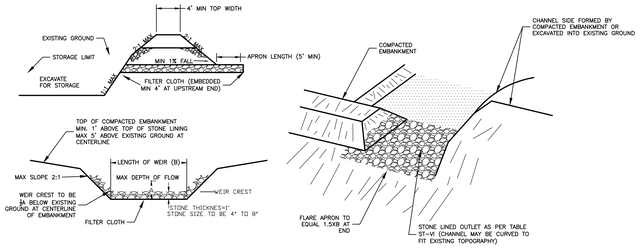


SIDE SEAM NOTE: SIDE SEAMS SHALL BE OVERLAPPED 2"-4" AND STAPLE 12" O.C. THROUGH BOTH BLANKETS

NOTES:

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

4/25 EROSION CONTROL BLANKET
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

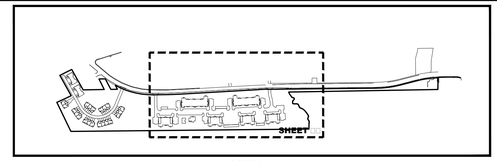
1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. 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. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL 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 IN THE OUTLET CHANNEL SHALL BE RIPRAP, OR RIP-RAP, TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER STONE SHALL BE EMBEDDED 6" FROM 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 RESORTED TO ITS ORGINIAL DIMMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ½ THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH AN MANNER IT WILL NOT ERODE.
9. THE STRUCTURE SHALL BE REPAIRED AFTER EACH RAIN AND REPAIRED 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 SREA STABILIZED WHEN DRAINAGE AREA HAS BENN PROPERLY STABILIZED
12. DRAINAGE FOR THIS AREA IS LIMITED TO 15 ACRES OR LESS

DESIGN CALCULATIONS

CONTRIBUTING AREA = 0.62 ACRES
MIN SIZE = 3,600 CF/ACRE
MIN SIZE = **2,230 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

3/25 STONE OUTLET SEDIMENT TRAP
NOT TO SCALE



KEY MAP
N.T.S.

SOIL RESTORATION:

AS PER CHAPTER 5 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL, SOIL RESTORATION 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) THE FOLLOWING RESTORATION MUST BE APPLIED:

1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
2. TILL COMPOST INTO 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 SOIL.
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF 4 INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES
5. VEGETATE AS REQUIRED BY APPROVED PLAN.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

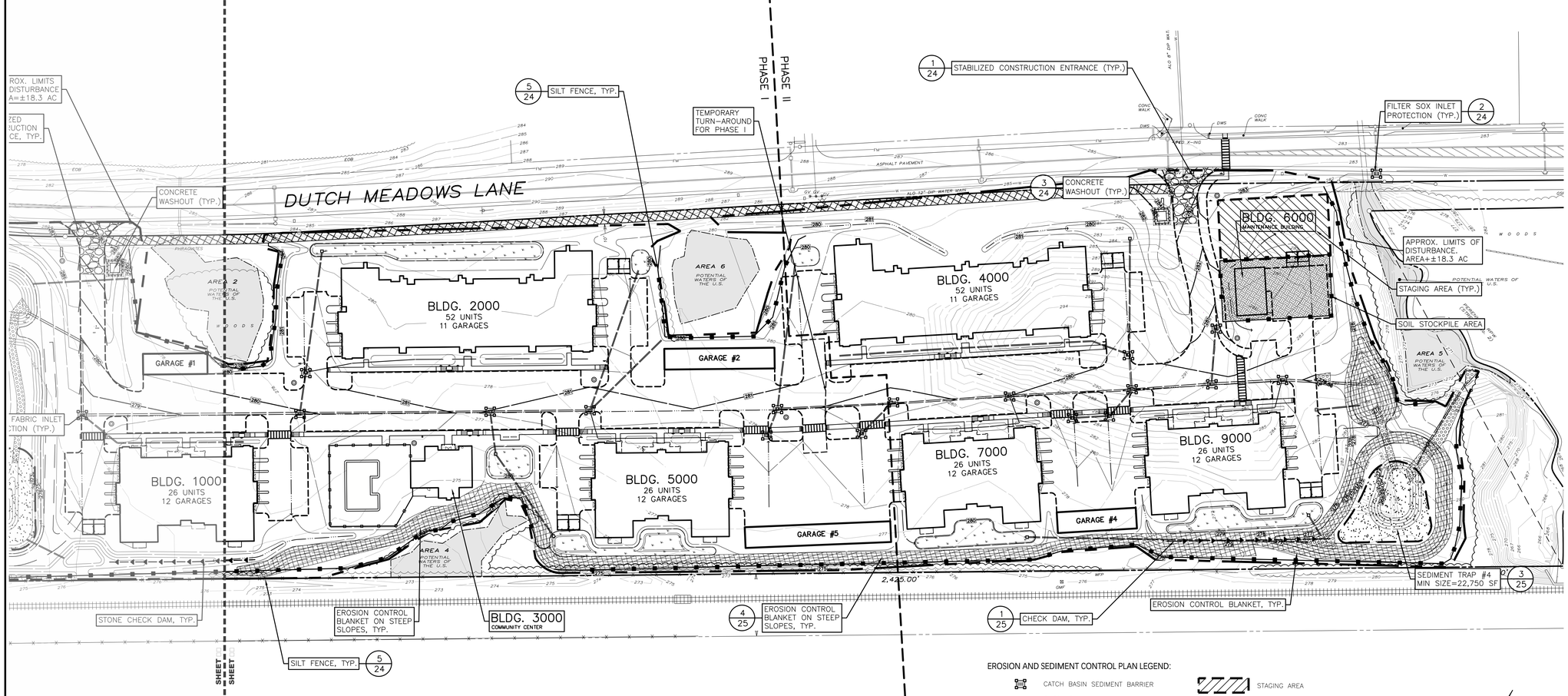
1. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN.
2. INSTALL PERIMETER SILT FENCES AND TEMPORARY SEDIMENT BASIN IN THE LOCATIONS SHOWN AND OTHER LOCATIONS AS NECESSARY TO STABILIZE THE SITE.
3. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
4. FREQUENT WATERING OF THE EXCAVATION AND FILL AREAS SHALL BE DONE TO MINIMIZE WIND EROSION.
5. COMMENCE SITE GRADING AND CONSTRUCTION.
6. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
7. INSTALL PROTECTIVE SILT FENCES / BARRIERS AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
8. FINALIZE PAVEMENT SUBGRADE PREPARATION.
9. CONSTRUCT ALL CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION HAY BALES MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIPRAP AT LOCATIONS SHOWN ON THE PLANS.
10. REMOVE SILT FENCES / STRAW BARRIERS AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
11. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
12. CARRY OUT FINAL GRADING AND SEEDING AND PLANTING
13. REMOVE SILT FENCING / STRAW BARRIERS ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.
14. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).

EROSION AND SEDIMENT CONTROL AND STABILIZATION MEASURES, MAINTENANCE AND INSPECTION PRACTICES:

1. THE FOLLOWING IS A LIST OF EROSION AND SEDIMENT CONTROLS TO BE USED ON THIS SITE DURING CONSTRUCTION:
   - A) STABILIZATION PRACTICES FOR THIS SITE INCLUDE:
     - LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND SHALL PROGRESS AS EARTHWORK IS NEEDED
     - FREQUENT WATERING OF EXCAVATION AND FILL AREAS TO MINIMIZE WIND EROSION DURING CONSTRUCTION.
     - USE OF STABILIZATION FABRIC FOR ALL SLOPES HAVING A SLOPE OF 1V:2H OR GREATER AND FILL SLOPES 1V:3H OR GREATER.
     - PERMANENT SEEDING AND PLANTING OF ALL UNPAVED AREAS USING THE HYDROMULCHING GRASS SEEDING TECHNIQUE.
   - B) STRUCTURAL PRACTICES FOR THIS SITE INCLUDE:
     - PERIMETER PROTECTION USING SILT FENCES
     - INLET PROTECTION AND OUTLET PROTECTION USING SILT FENCES
     - STORM SEWER, CURBS AND GUTTERS
     - STABILIZED CONSTRUCTION EXIT POINTS
     - STORMWATER DETENTION PONDS (WHICH MAY ALSO SERVE AS A TEMPORARY SEDIMENT BASIN)
2. THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:
   - A) ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY.
   - B) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
   - C) BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCES / STRAW BARRIERS WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
   - D) SILT FENCES / STRAW BARRIERS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.
   - E) THE SEDIMENT BASIN, IF PRESENT, WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 50 PERCENT OF THE DESIGN CAPACITY.
   - F) TEMPORARY AND PERMANENT SEEDING AND ALL OTHER STABILIZATION MEASURES WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
   - G) A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPIES OF THE REPORT FORMS TO BE COMPLETED BY THE INSPECTOR ARE INCLUDED IN THIS SWPPP.
   - H) THE JOB SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SELECTING AND TRAINING THE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR THESE INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT INSPECTION AND MAINTENANCE REPORTS.
   - I) PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE APPROPRIATE INSTRUCTION FROM THE JOB SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS THAT ARE USED ONSITE IN GOOD WORKING ORDER. THEY WILL ALSO BE TRAINED IN THE COMPLETION OF, INITIATION OF ACTIONS REQUIRED BY, AND THE FILING OF THE INSPECTION FORMS. DOCUMENTATION OF THIS PERSONNEL TRAINING WILL BE KEPT ON SITE WITH THE SWPPP.
   - J) DISTURBED AREAS AND MATERIALS STORAGE AREAS WILL BE INSPECTED FOR EVIDENCE OF OR POTENTIAL FOR POLLUTANTS ENTERING STORMWATER SYSTEMS.
   - K) REPORT TO THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION WITHIN 24 HOURS ANY NONCOMPLIANCE WITH THE SWPPP THAT WILL ENDANGER PUBLIC HEALTH OR THE ENVIRONMENT. FOLLOW UP WITH A WRITTEN REPORT WITHIN 5 DAYS OF THE NONCOMPLIANCE EVENT.

ADDITIONAL EROSION CONTROL AND GRADING NOTES:

1. **MINIMAL EROSION CONTROL DEVICES ARE ILLUSTRATED ON SITE PLAN IN A SCHEMATIC MANNER BASED ON NY STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL. IT WILL BE NECCESSARY TO ADJUST THE ACTUAL LOCATION AND QUANTITY OF EROSION CONTROL DEVICES DEPENDING UPON FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE MEASURES AS REQUIRED TO PROTECT THE SITE.**
2. SLOPES SHALL TYPICALLY BE GRADED AT A MAXIMUM OF 3:1 (3 HORIZ. 1 VERT.) WITHIN ALL CUT OR FILL AREAS, UNLESS OTHERWISE DESIGNATED ON PLANS.
3. SEED SHALL BE A COMMERCIALLY AVAILABLE MIXTURE OF PERENNIAL RYE AND UTILITY GRADE FESCUE. PERCENTAGE OF PERENNIAL RYE SHALL NOT EXCEED 50%.
4. SEEDED AREAS SHALL BE FULLY COVERED WITH A LEAN STRAW OR MULCH MATERIAL. IF ORDERED BY THE ENGINEER OR MUNICIPALITY, A BIODEGRADABLE NETTING (E.G., EXCELSIOR BLANKET, JUTE OR GEOTEXTILE) SHALL BE ANCHORED OVER SEEDED AREAS WHICH DEMONSTRATE "RILLING" OR OTHER EROSION PROCESSES.
5. TOPSOIL AND SEED SHALL BE REAPPLIED TO ANY AREAS WHICH FAIL TO ESTABLISH AS A RESULT OF INITIAL APPLICATION.
6. SILT FENCE BARRIERS SHALL BE PLACED WITHIN ALL AREAS OF EXPOSED SLOPES TO CONTROL SOIL EROSION DURING AND AFTER CONSTRUCTION.
7. ALL STORM OUTFALLS SHALL RECEIVE RIP RAP IMMEDIATELY UPON INSTALLATION (AS PER PLAN).
8. EROSION CONTROL (ERO-MAT) OR APPROVED EQUAL, SHALL BE INSTALLED ON ALL 2:1 SLOPES: AN ORGANIC FIBER PROTECTIVE MAT, HALF INCH LAYER OF CHOPPED STRAW, KNITTED INTO A RUGGED MAT WITH A THIN NETTING OF PHOTODEGRADABLE POLYPROPYLENE. SECURE MAT TO SLOPE WITH 6" STEEL U-SHAPED STABLES, 2 STAPLES PER SQUARE YARD, OR AS PER MANUFACTURER'S INSTRUCTIONS.
9. STREAM REACHES ON-SITE AND DOWNSTREAM OF CONSTRUCTION SHALL NOT HAVE SUBSTANTIAL VISIBLE CONTRAST RELATIVE TO COLOR, TASTE, ODOR, TURBIDITY AND SEDIMENT DEPOSITION FROM THE REACHES UPSTREAM OF THE CONSTRUCTION ACTIVITY.
10. VEHICULAR ACCESS POINTS SHALL BE MONITORED AND INSPECTED AT THE SAME FREQUENCY AS EROSION CONTROL FEATURES TO INSURE THAT DEPOSITS OF SAND, SILT OR OTHER MATERIAL IS NOT BEING DEPOSITED ON PUBLIC ROADWAYS. IN THE EVENT ANY SIGNIFICANT DEPOSITS OCCUR THEY SHALL BE CLEANED UP IMMEDIATELY.
11. KEEP ALL CONSTRUCTION EQUIPMENT, TOPSOIL STOCKPILES AND ANY TEMPORARY/PERMANENT GRAVEL AREAS OFF FUTURE SEPTIC AREAS.



EROSION AND SEDIMENT CONTROL PLAN LEGEND:

- CATCH BASIN SEDIMENT BARRIER
- CHECK DAMS
- SILT FENCE
- EROSION CONTROL BLANKET
- STABILIZED CONSTRUCTION ENTRANCE
- SOIL STOCKPILE
- STAGING AREA
- CONCRETE WASHOUT
- SEDIMENT TRAP

GRAPHIC SCALE
50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
300 Route 146 Clifton Park, New York 12065
(518) 373-1421
edpllp.com

PROPOSED SITE IMPROVEMENTS FOR DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

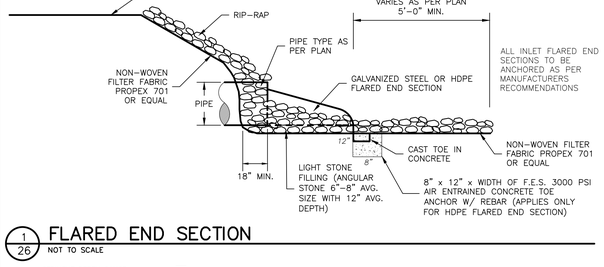
SCALE: 1" = 50'

NOT FOR CONSTRUCTION

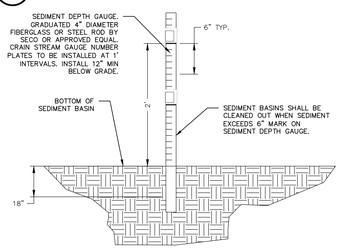
SHEET TITLE:
EROSION □ SEDIMENT CONTROL

SHEET:
25 of 29

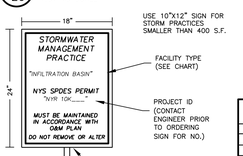
D:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\01_EROS_DUTCHMEADOWS.dwg Mar 21, 2020 09:32:04AM



1/26 FLARED END SECTION
NOT TO SCALE

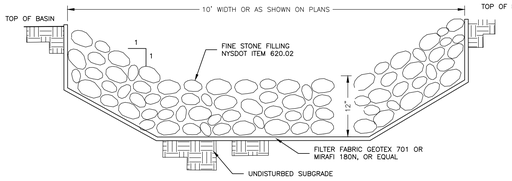


5/26 SEDIMENT DEPTH GAUGE
NOT TO SCALE

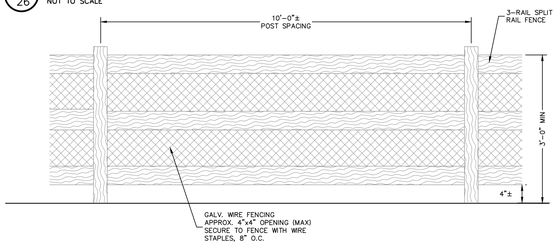


LOCATION (SEE SITE PLAN)	FACILITY TYPE
1	STORMWATER POND
2	STORMWATER POND
3	BIORETENTION AREA
4	BIORETENTION AREA
5	BIORETENTION AREA
6	BIORETENTION AREA
7	BIORETENTION AREA
8	BIORETENTION AREA
9	BIORETENTION AREA
10	BIORETENTION AREA
11	BIORETENTION AREA
12	STORMWATER POND
13	STORMWATER POND

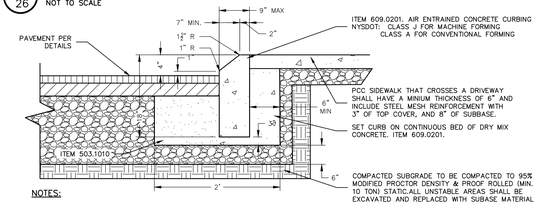
6/26 STORMWATER MANAGEMENT NOTIFICATION SIGN
NOT TO SCALE



9/26 EMERGENCY OVERFLOW SPILLWAY
NOT TO SCALE



10/26 STORMWATER BASIN FENCE
NOT TO SCALE



NOTES:

1.) FOR CONVENTIONAL FORMING, CAST IN UNIFORM SEGMENTS (20+/- FT.), MAX. 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.

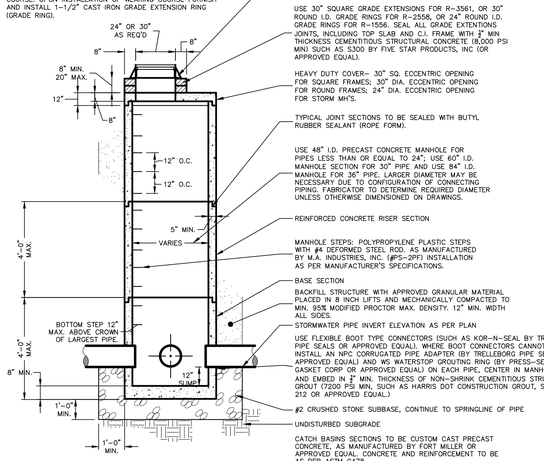
11/26 MOUNTABLE CURB
NOT TO SCALE

(H-20 LOAD/RATING)

GENERAL NOTE:

SURVEY STAKEOUT OF CATCH BASINS ARE NORMALLY CENTER OF GRATE, NOT NECESSARILY CENTER OF STRUCTURE.

SET TOP OF FRAME ½" BELOW FINISHED GRADE OF BINDER COURSE. UPON INSTALLATION OF WEARING COURSE FURNISH AND INSTALL 1-1/2" CAST IRON GRADE EXTENSION RING (GRADE RING).



STANDARD HEAVY DUTY CAST IRON FRAME & GRATE, BY NEENAH FOUNDARY CO. OR APPROVED EQUAL GRATES TO BE BICYCLE SAFE. FRAME: R-3561 G (FOR PAVED AREAS.) USE PATTERN NO. R-2558 G FOR LAWN AREAS OR WHERE ROUND GRATES ARE REQUIRED. USE NO. R-1556 G FRAME & COVER FOR 24" DIA. STORM MH. (SET FRAME IN S300 STRUCTURAL CONCRETE BY FIVE STAR).

USE 30" SQUARE GRADE EXTENSIONS FOR R-3561, OR 30" ROUND I.D. GRADE RINGS FOR R-2558, OR 24" ROUND I.D. GRADE RINGS FOR R-1556. SEAL ALL GRADE EXTENTIONS JOINTS, INCLUDING TOP SLAB AND C.I. FRAME WITH 2" MIN THICKNESS CEMENTITIOUS STRUCTURAL CONCRETE (8,000 PSI MIN) SUCH AS S300 BY FIVE STAR PRODUCTS, INC (OR APPROVED EQUAL).

HEAVY DUTY COVER- 30" SQ. ECCENTRIC OPENING FOR SQUARE FRAMES; 30" DIA. ECCENTRIC OPENING FOR ROUND FRAMES; 24" DIA. ECCENTRIC OPENING FOR STORM MH'S.

TYPICAL JOINT SECTIONS TO BE SEALED WITH BUTYL RUBBER SEALANT (ROPE FORM).

USE 48" I.D. PRECAST CONCRETE MANHOLE FOR PIPES LESS THAN OR EQUAL TO 24"; USE 60" I.D. MANHOLE SECTION FOR 30" PIPE AND USE 84" I.D. MANHOLE FOR 36" PIPE. LARGER DIAMETER MAY BE NECESSARY DUE TO CONFIGURATION OF CONNECTING PIPING. FABRICATOR TO DETERMINE REQUIRED DIAMETER UNLESS OTHERWISE DIMENSIONED ON DRAWINGS.

REINFORCED CONCRETE RISER SECTION

MANHOLE STEPS: POLYPROPYLENE PLASTIC STEPS WITH #4 DEFORMED STEEL ROD. AS MANUFACTURED BY M.A. INDUSTRIES, INC. (PS-PF) INSTALLATION AS PER MANUFACTURER'S SPECIFICATIONS.

BASE SECTION

BACKFILL STRUCTURE WITH APPROVED GRANULAR MATERIAL PLACED IN 8 INCH LIFTS AND MECHANICALLY COMPACTED TO MIN. 95% MODIFIED PROCTOR MAX. DENSITY. 12" MIN. WIDTH ALL SIDES.

STORMWATER PIPE INVERT ELEVATION AS PER PLAN

USE FLEXIBLE BOOT TYPE CONNECTORS (SUCH AS KOR-N-SEAL BY TRELLEBORG PIPE SEALS OR APPROVED EQUAL). WHERE BOOT CONNECTORS CANNOT BE USED, INSTALL AN NPC CORRUGATED PIPE ADAPTER (BY TRELLEBORG PIPE SEALS OR APPROVED EQUAL) AND WS WATERSTOP GROUTING RING (BY PRESS-SEAL GASKET CORP OR APPROVED EQUAL) ON EACH PIPE. CENTER IN MANHOLE WALL AND EMBED IN 2" MIN. THICKNESS OF NON-SHRINK CEMENTITIOUS STRUCTURAL GROUT (7200 PSI MIN, SUCH AS HARRIS DOT CONSTRUCTION GROUT, SIKAGROUT 212 OR APPROVED EQUAL.)

#2 CRUSHED STONE SUBBASE, CONTINUE TO SPRINGLINE OF PIPE

UNDISTURBED SUBGRADE

CATCH BASINS SECTIONS TO BE CUSTOM CAST PRECAST CONCRETE, AS MANUFACTURED BY FORT MILLER OR APPROVED EQUAL. CONCRETE AND REINFORCEMENT TO BE AS PER ASTM C478.

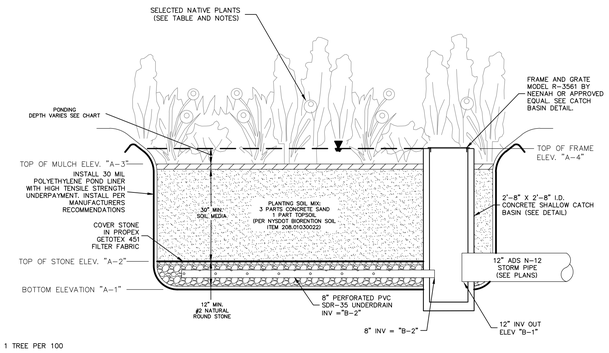
2/26 DEEP CATCH BASIN SECTION STORM MH (TYP.)
NOT TO SCALE

	MICROPOOL EXTENDED DETENTION POND ELEVATIONS		POCKET POND ELEVATIONS		
	SMA #1	SMA #2	SMA #11	SMA #12	SMA #13
A-1 (FT)	268.00	268.00	255.00	266.00	257.00
A-2 (FT)	272.00	271.60	259.00	269.00	260.00
A-3 (FT)	275.75	273.75	261.10	270.80	261.50
A-4 (FT)	277.15	274.50	261.50	271.75	262.00
A-5 (FT)	277.50	276.50	262.50	272.50	262.50
B-1 (FT)	XXX.XX	272.75	259.40	270.75	261.25
B-2 (FT)	271.50	272.20	259.40	267.90	260.00
B-3 (FT)	271.00	272.00	259.25	267.00	260.00
C-1 (FT)	272.00	271.00	256.00	266.00	259.00
C-2 (FT)	276.00	275.00	261.50	271.00	261.50
D-1 (IN)	2.4	0.8	1.4	1.0	1.0
D-2 (IN)	8	12	8.0	8.0	8.0
STORM EVENT					
1 YR (FT)	274.22	273.87	261.16	270.76	261.57
10 YR (FT)	275.85	274.65	261.63	271.12	262.05
25 YR (FT)	276.25	275.18	261.78	271.32	262.10
100 YR (FT)	277.24	275.93	262.26	271.60	262.28

7/26 MICROPOOL EXTENDED DETENTION POND
NOT TO SCALE

	BIORETENTION ELEVATIONS					
ELEVATION	SMA #3	SMA #4	SMA #7	SMA #8	SMA #9	SMA #10
A-1	275.00	275.80	276.00	276.40	277.25	263.50
A-2	276.00	276.80	277.00	277.40	278.25	264.50
A-3	278.50	279.30	279.50	279.90	280.75	267.00
A-4	279.00	279.80	279.75	280.40	281.25	267.50
B-1	275.25	276.00	276.35	276.55	277.35	263.50
B-2	275.25	276.00	276.15	276.55	277.40	263.50

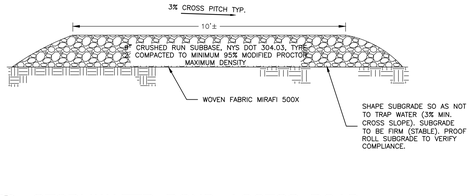
SUGGESTED BIORETENTION PLANT LIST		
TREES	HERBACEOUS PLANTS	SHRUBS
RED MAPLE (ACER RUBRUM)	CINNAMON FERN (OSMUNDA CINNAMOMEA)	WITCH HAZEL (HAMEMELIS VIRGINIANA)
DOWNY SERVICEBERRY (AMELANCHEIER ARBOREA)	CUTLEAF CONEFLOWER (RUDBECKIA LACINATA)	WINTERBERRY (ILEX VERTICILLATA)
RIVER BIRCH (BETULA NIGRA)	WOOLGRASS (SCIRPUS CYPERINUS)	ARROWWOOD VIBURNUM DENTATUM)
EASTERN RED CEDAR (JUNIPERUS VIRGINIANA)	NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE)	RED-OSIER DOGWOOD (CORNUS STOLONIFERA)
.	FOX SEDGE (CAREX VULPINOIDEA)	SWEET PEPPERBUSH (CLETHRA ALNIFOLIA)
	SPOTTED JOE-PYE-WEED (EUPATORIUM MACULATUM)	
	SWITCH GRASS (PANICUM VIRGATUM)	
	GREAT BLUE LOBELIA (LOBELIA SIPHATICA)	
	WILD BERGAMONT (MONARDA FISTULOSA)	
	RED MILKWEED (ASCLEPIAS INCARNATE)	



PLANTING NOTES:

1. TREE DENSITY SHOULD BE LIMITED TO 1 TREE PER 100 SQUARE FEET (10 FEET ON CENTER)
2. SHRUBS AND HERBACACEOUS VEGETATION SHOULD BE PLANTED AT 5 FEET ON CENTER AND 2.5 FEET ON CENTER, RESPECTIVELY.

8/26 BIO RETENTION AREA
NOT TO SCALE



12/26 STORMWATER POND ACCESS ROAD
NOT TO SCALE

NOTES:

1 GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.

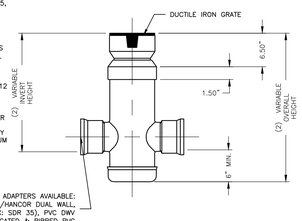
2 CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065

3 DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC

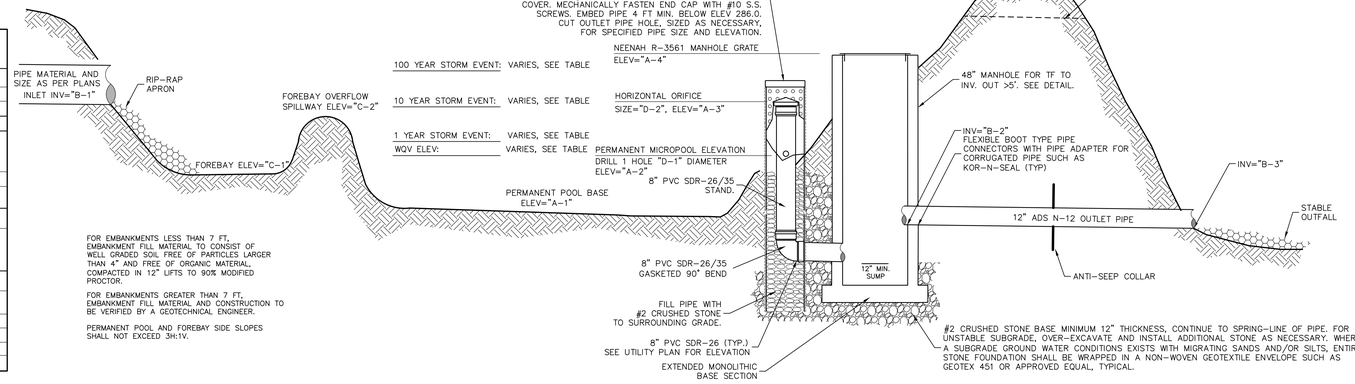
4 STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

5 DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY

(3,4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" – 8" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL; ADS/HANCOR SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC



13/26 NYLOPLAST CATCH BASIN
NOT TO SCALE

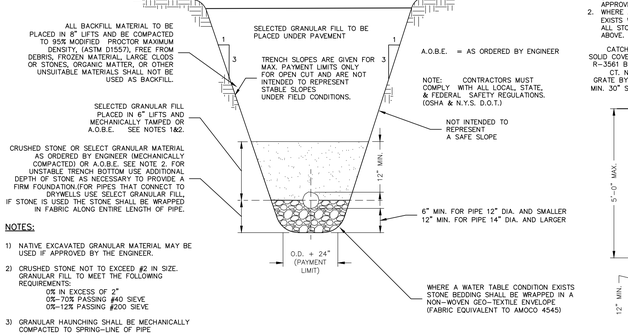


FOR EMBANKMENTS LESS THAN 7 FT, EMBANKMENT FILL MATERIAL TO CONSIST OF WELL GRADED SOIL FREE OF PARTICLES LARGER THAN 4" AND FREE OF ORGANIC MATERIAL, COMPACTED IN 12" LIFTS TO 90% MODIFIED PROCTOR.

FOR EMBANKMENTS GREATER THAN 7 FT, EMBANKMENT FILL MATERIAL AND CONSTRUCTION TO BE VERIFIED BY A GEOTECHNICAL ENGINEER.

PERMANENT POOL AND FOREBAY SIDE SLOPES SHALL NOT EXCEED 3H:1V.

#2 CRUSHED STONE BASE MINIMUM 12" THICKNESS, CONTINUE TO SPRING-LINE OF PIPE, FOR UNSTABLE SUBGRADE, OVER-EXCAVATE AND INSTALL ADDITIONAL STONE AS NECESSARY. WHERE A SUBGRADE GROUND WATER CONDITIONS EXISTS WITH MIGRATING SANDS AND/OR SILTS, ENTIRE STONE FOUNDATION SHALL BE WRAPPED IN A NON-WOVEN GEOTEXTILE ENVELOPE SUCH AS GEOTEX 451 OR APPROVED EQUAL, TYPICAL.



NOTES:

1) NATIVE EXCAVATED GRANULAR MATERIAL MAY BE USED IF APPROVED BY THE ENGINEER.

2) CRUSHED STONE NOT TO EXCEED #2 IN SIZE. GRANULAR FILL TO MEET THE FOLLOWING REQUIREMENTS:
0% IN EXCESS OF 2"
0%-70% PASSING #40 SIEVE
0%-12% PASSING #200 SIEVE

3) GRANULAR HAUNCHING SHALL BE MECHANICALLY COMPACTED TO SPRING-LINE OF PIPE

3/26 STORM PIPE TRENCH
NOT TO SCALE

STONE NOTES:

1. ALL STONE SUBBASE AND BEDDING LOCATED IN AREAS TO BE PAVED SHALL BE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC ENVELOPE (SUCH AS GEOTEX 45- BY PROPEX OR APPROVED EQUAL).
2. WHERE A SUBGRADE GROUNDWATER CONDITION EXISTS WITH MIGRATING SANDS AND/OR SILTS, ALL STONE SHALL BE WRAPPED AS PER NOTE 1 ABOVE.

CATCH BASIN FRAME & GRATE OR SOLID COVER WHERE SPECIFIED: MODEL R-3561 BY NEENAH FOUNDRY CO. OR CT. NO.'S: 54192 FRAME & 5419M GRATE BY EJIW OR APPROVED EQUAL. MIN. 30" SQUARE OPENING GRATES TO BE BICYCLE SAFE

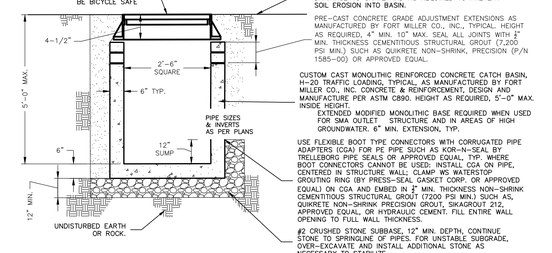
AGGREGATE NOTES:

1. ALL STONE SHALL BE CRUSHED-TYPE AND MEET NYS DOT STD. SPECIFICATIONS 703-02, COARSE AGGREGATE.
2. SELECT GRANULAR FILL SHALL MEET NYS DOT STD. SPECIFICATIONS 703-01, FINE AGGREGATE AND 733-11 EXCEPT WITH THE FOLLOWING GRADATION

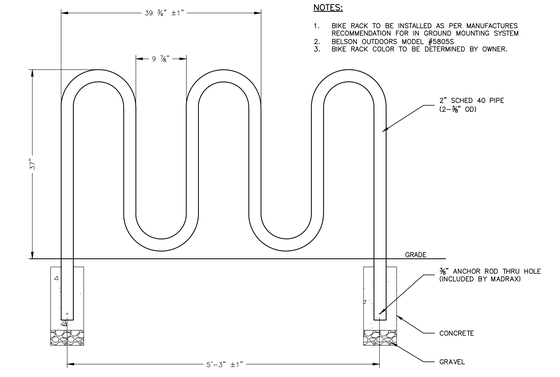
100%	PASSING 1-1/2" SIEVE
0%-70%	PASSING #40 SIEVE
0%-12%	PASSING #200 SIEVE

NOTE:

THIS SIZE CATCH BASIN IS FOR A MAXIMUM PIPE SIZE OF 18"



4/26 SHALLOW CATCH BASIN
NOT TO SCALE



NOTES:

1. BIKE RACK TO BE INSTALLED AS PER MANUFACTURES RECOMMENDATION FOR IN GROUND MOUNTING SYSTEM
2. BELSON OUTDOORS MODEL #580S5
3. BIKE RACK COLOR TO BE DETERMINED BY OWNER.

14/26 BIKE RACK DETAIL
NOT TO SCALE

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
300 Route 146 Clifton Park, New York 12065
(518) 373-1421 edpllp.com

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11537B

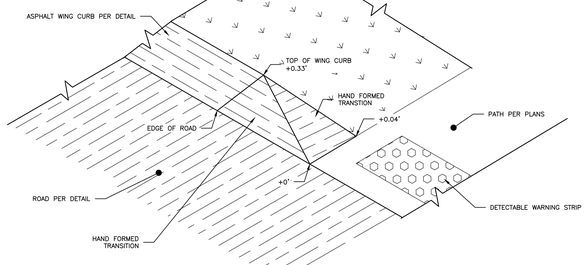
REVISION	DATE	BY

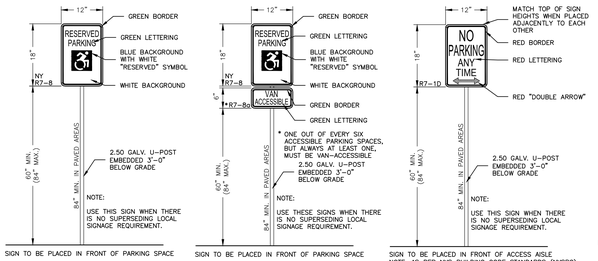
SCALE: N.T.S.

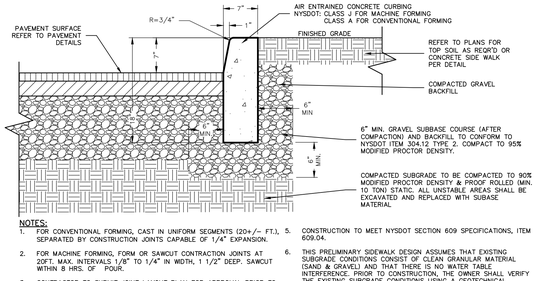
NOT FOR CONSTRUCTION

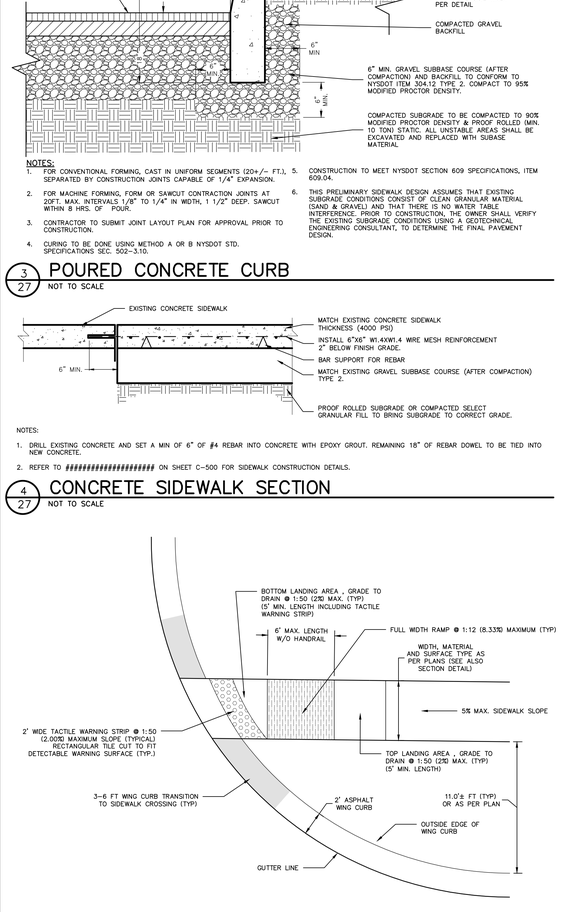
SHEET TITLE: SITE DETAILS

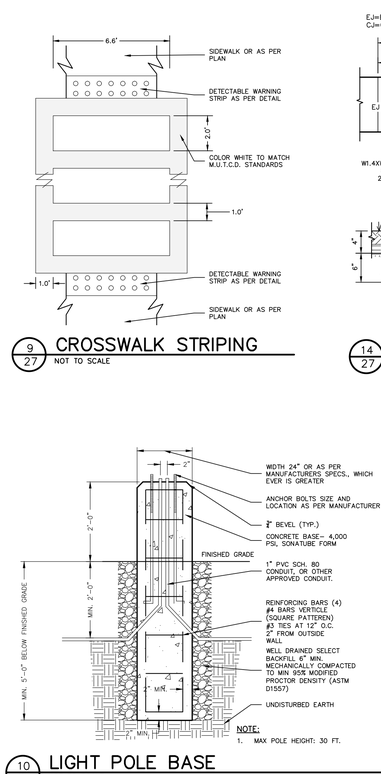
SHEET: 26 of 29

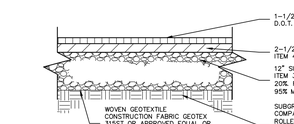


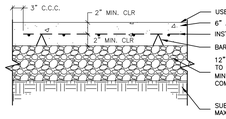


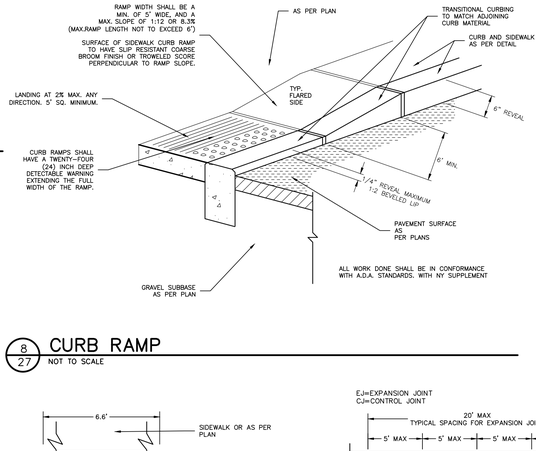


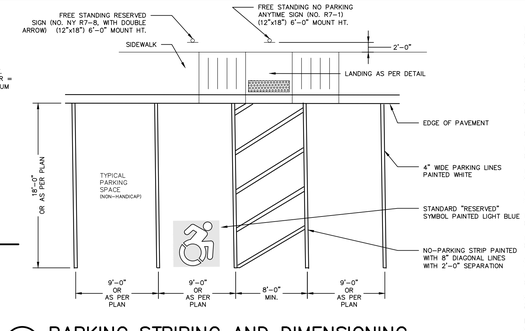


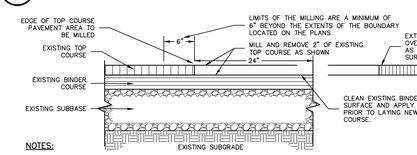


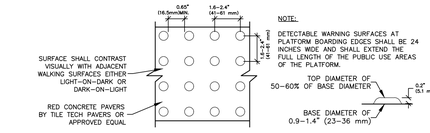


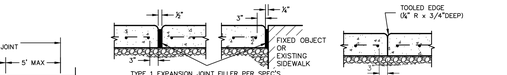


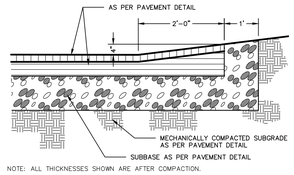


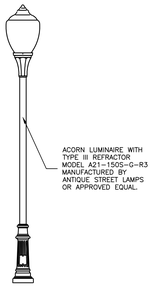


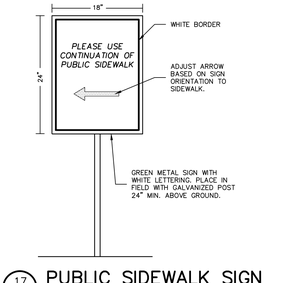












1/27 ASPHALT WING CURB TRANSITION
NOT TO SCALE

2/27 A.D.A. ACCESSIBLE SIGNAGE
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.

3/27 POURED CONCRETE CURB
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 #################### ON SHEET C-500 FOR SIDEWALK CONSTRUCTION DETAILS.

4/27 CONCRETE SIDEWALK SECTION
NOT TO SCALE

5/27 SIDEWALK PLAN WITH WING CURB
NOT TO SCALE

NOTES:

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

6/27 HEAVY DUTY BITUMINOUS PAVEMENT SECTION
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

7/27 CONCRETE SLAB SECTION
NOT TO SCALE

8/27 CURB RAMP
NOT TO SCALE

9/27 CROSSWALK STRIPING
NOT TO SCALE

NOTE:

1. MAX POLE HEIGHT: 30 FT.

10/27 LIGHT POLE BASE
NOT TO SCALE

11/27 PARKING STRIPING AND DIMENSIONING
NOT TO SCALE

NOTES:

1. CLEAN EXISTING PAVEMENT SURFACE OF LOOSE AND DELETERIOUS MATERIAL IMMEDIATELY BEFORE COLD MILLING.
2. KEEP MILLED PAVEMENT SURFACE FREE OF LOOSE MATERIAL AND DUST.
3. REPAIR OR REPLACE CURBS, MANHOLES AND OTHER CONSTRUCTION DAMAGED DURING MILLING.
4. PATCH SURFACE DEPRESSIONS DEEPER THAN 1 INCH AFTER MILLING, BEFORE TOP COURSE IS LAID.
5. ALL CRACKS LARGER THAN ¼" WIDE TO BE REPAIRED PER CRACK FILL DETAIL
6. DO NOT ALLOW MILLED MATERIALS TO ACCUMULATE ON-SITE
7. ANY JOINTS IN BINDER COURSE SHALL RECEIVE 24" WIDE SELF ADHESIVE GEO-COMPOSITE PAVE PREP (OR APPROVED EQUAL) CENTERED OVER BINDER SEAM

12/27 PAVEMENT MILLING AND RESTORATION
NOT TO SCALE

NOTE:

DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24 INCHES WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.

13/27 DETECTABLE WARNING STRIP
NOT TO SCALE

NOTES:

1. ALL CONCRETE SHALL BE 4000 PSI CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SPECIFICATION SECTION 321300.
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 LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
4. SAW CONTROL JOINTS ONE INCH DEEP AFTER THE CONCRETE HAS SET AND AS PER SPEC.'S 321300-3.04L.
5. SUBBASE MATERIAL SHALL CONFORM WITH SPECIFICATION SECTION 310000.
6. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 310000.

14/27 CONCRETE SIDEWALK
NOT TO SCALE

NOTE: ALL THICKNESSES SHOWN ARE AFTER COMPACTION.

15/27 ASPHALT WING CURB
NOT TO SCALE

16/27 TYPICAL ORNAMENTAL STREET LAMP
NOT TO SCALE

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 INDUCTRIAL CODE 53: CONTRACTOR TO CALL DIG SAFELY NEW YORK, INC. AT 1-800-962-7962 TO LOCATE BURIED CABLES OR OTHER UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.

CONTRACTOR MUST VERIFY THE ACCEPTABILITY OF ALL CONSTRUCTION MATERIALS WITH MUNICIPALITY'S ENGINEER PRIOR TO ORDERING.

INSTALLATION AND MATERIAL SPECIFICATIONS FOR STORM SEWER, SANITARY SEWER, WATER SERVICE CONNECTIONS SHALL CONFORM TO THE MUNICIPALITY'S STANDARD DETAILS AND REQUIREMENTS. INSTALLATION PROCEDURES AND MATERIALS MUST BE VERIFIED WITH MUNICIPALITY PRIOR TO CONSTRUCTION.

ANY EXISTING STORM SEWERS AND UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL HAVE THEIR EXACT LOCATION CHECKED AT THE SITE BEFORE CONSTRUCTION BEGINS.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING PIPE INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES WHICH RESULT MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, GRADES, PIPE INVERTS AND ELEVATIONS AND REVIEW WITH CONSULTANT BEFORE CONSTRUCTION.

ALL EXCAVATION TO MEET OSHA AND NYS DOT SAFETY REGULATIONS AND STANDARDS.

THE CONTRACTOR SHALL FILL IN, AND RE-EXCAVATE, AS NECESSARY TO RESUME WORK, ANY EXCAVATIONS OR TRENCHES AT LOCATIONS AND AS OFTEN AS MAY BE REQUIRED TO ENSURE PROTECTION OF THE WORK, ANY ADJACENT EXISTING FACILITIES, OR THE PUBLIC.

THE CONTRACTOR SHALL CLEAN UP THE JOB SITE DAILY BEFORE LEAVING THE JOBSITE. ALL RUBBISH MUST BE CLEANED UP AND CONSTRUCTION EQUIPMENT MUST BE PROPERLY TAKEN CARE OF AND STORED AT THE END OF THE DAY.

CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND SAFETY DURING CONSTRUCTION.

THE CONTRACTOR SHALL FURNISH ALL FLAGMEN AND SIGNS, DELINEATORS, BARRIERS, AND DEVICES NECESSARY FOR TRAFFIC CONTROL DURING ANY EARTH-MOVING OPERATION OR OTHER CONSTRUCTION ACTIVITY WHICH INVOLVES PUBLIC HIGHWAYS.

ALL TRAFFIC SIGNS, CONTROL DEVICES AND INFORMATIONAL ITEMS, IF DISTURBED DURING CONSTRUCTION WITHIN CONTRACT LIMIT LINES, SHALL BE RELOCATED AS PER APPROVAL OF MUNICIPALITY.

RESTORATION OF PAVEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPLACE AND RESTORE PAVEMENT WITH MATERIAL TO A CONDITION EQUAL TO OR BETTER THAN PRECONSTRUCTION CONDITIONS. ALL PAVEMENT AND RIGHT-OF-WAY RESTORATION WORK TO BE DONE TO THE SATISFACTION OF THE STATE, COUNTY OR LOCAL MUNICIPAL HIGHWAY DEPARTMENT.

CONTRACTOR SHALL RESTORE ALL LAWNS, DRIVEWAYS, WALKS, WALLS, CURBS, FENCES, ETC. TO A CONDITIONS AT LEAST AS GOOD AS THEY WERE BEFORE BEING DISTURBED.

BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. SHRUBS AND HEDGES THAT MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED OR REPLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

POSTS, MAILBOXES, ETC. SHALL BE PROTECTED, OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

IT MAY BE NECESSARY TO TIE OR HOLD BACK UTILITY POLES DURING CONSTRUCTION. THIS SHOULD BE ACCOMPLISHED IN COOPERATION WITH UTILITY COMPANIES.

NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENTS OR R.O.W. AS SHOWN.

CONTRACTOR TO COMPLY WITH ALL OSHA AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION (PROPER SHORING, ETC.).

SIDE SLOPES GREATER THAN 1:3 WILL REQUIRE GUIDE RAILS (1-FOOT VERTICAL, 3-FOOT HORIZONTAL).

ALL SITE WORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. WHERE ACCESS OR WORK OUTSIDE OF PROPERTY BOUNDARY IS NECESSARY, THE PERMISSION OF ADJOINING PROPERTY OWNER MUST FIRST BE OBTAINED.

SITE SURVEYOR TO VERIFY ELEVATIONS OF EXISTING ROAD CENTERLINE AND SHOULDER PRIOR TO COMMENCING WORK. CONTRACTOR IS TO CONFIRM THIS WITH SITE SURVEYOR.

WHERE APPROPRIATE, SITE LAYOUT AND GRADING WORK SHALL BE COMPLETED BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR. LANDSCAPE ARCHITECT SHALL APPROVE ALL LAYOUT WORK PRIOR TO CONSTRUCTION.

CONTRACTOR TO NOTIFY ENGINEER AFTER ROUGH GRADING IS COMPLETED. FINISH GRADES TO BE ADJUSTED IN THE FIELD AFTER INITIAL GRADING IS COMPLETED. ALL CHANGES IN PROPOSED GRADES TO BE APPROVED BY OWNER AND ENGINEER.

ALL AREAS OF THE SITE WHICH ARE DISTURBED AND NOT PAVED SHALL BE TOPSOILED AND SEEDED.

ALL PHYSICAL FEATURES INCLUDING SIDEWALKS, CURBING, DECKS, LAMPS, STAIRS, ETC. WITHIN FIVE FEET OF EXTERIOR BUILDING WALLS AND CANOPY OVERHANGS ARE TO BE CONSTRUCTED PER ARCHITECTURAL PLANS. IT IS NOT THE INTENT OF THESE DOCUMENTS TO ADDRESS SUCH DETAILS, WHICH ARE SHOWN ONLY FOR THE PURPOSE OF CONTINUITY BETWEEN THE SITE PLAN AND THE ARCHITECTURAL PLANS.

PROVISIONS FOR STORMWATER COLLECTION AND DRAINAGE PERTAINING TO THE ROOF AND TO PHYSICAL FEATURES WITHIN FIVE FEET OF THE EXTERIOR BUILDING WALLS AND CANOPY OVERHANGS ARE THE RESPONSIBILITY OF THE ARCHITECT.

ALL VERTICAL GRADE CHANGES GREATER THAN 30 INCHES SHALL BE PROVIDED WITH SAFETY BARRIERS AS PER NYS BUILDING CODE (FENCES, RAILINGS, ETC. PER OWNER).

PRELIMINARY PAVEMENT AND SIDEWALK DESIGN SPECIFICATIONS ASSUME EXISTING SUBGRADE CONSISTS OF CLEAN, GRANULAR MATERIAL (SAND & GRAVEL) AND THAT THERE IS NO WATER TABLE INTERFERENCE. PRIOR TO CONSTRUCTION, THE PROJECT OWNER SHALL HAVE THE EXISTING SUBGRADE CONDITIONS EVALUATED BY A GEOTECHNICAL ENGINEER, WHO SHALL DETERMINE FINAL PAVEMENT AND SIDEWALK DESIGN SPECIFICATIONS. THE OWNER ASSUMES ALL RESPONSIBILITY FOR PAVEMENTS AND SIDEWALKS CONSTRUCTED WITHOUT A FINAL DESIGN, SHOULD HE CHOOSE NOT TO HIRE A GEOTECHNICAL ENGINEER.

FILL AREAS SHALL BE STRIPPED OF SOD, TOPSOIL AND UNSUITABLE MATERIAL AND BE MECHANICALLY COMPACTED TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH NYSDOT 203-3.09

FILLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYSDOT 230-3.03.B, EMBANKMENTS. COMPACTION AND LIFT THICKNESS SHALL BE IN ACCORDANCE WITH NYSDOT 230-3.03.C.

CONTROLLED FILL AREAS: CONTROLLED, RELATIVELY CLEAN (12% MAX PASSING #200 SIEVE), GRANULAR FILL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 12" IN LOOSE THICKNESS. THESE MATERIALS SHALL BE COMPACTED TO A MINIMUM 95% OF THE MAXIMUM ASTM SPECIFICATION D 1557-91 DENSITY, MODIFIED PROCTOR. ALL CONTROLLED FILL SHALL BE FREE OF ORGANIC AND/OR FROZEN MATERIALS.

EMBANKMENT SUBGRADE AREA (TWO FEET BELOW SUBGRADE ELEVATION) SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYSDOT 230-2.02.B., SELECT BORROW AND SELECT FILL, COMPACTED PER 203-3.12.

ALL AREAS OF THE SUBGRADE SURFACE WITHIN THE ROADWAY OR OTHER PAVEMENT AREA LIMITS SHALL BE PROOF-ROLLED, WITH UNSTABLE AREAS CORRECTED TO THE SATISFACTION OF THE ENGINEER, PRIOR TO PLACEMENT OF SUBBASE MATERIALS, BOTH EMBANKMENT AND CUT AREAS, IN ACCORDANCE WITH NYSDOT 203-3.03.D & 203-3.02.C.

FILL SPECIFICATIONS ARE CONSIDERED MINIMAL AND ARE SUBJECT TO CHANGE UPON DISCOVERY OF UNFAVORABLE SITE SOIL CONDITIONS AND/OR BY A GEOTECHNICAL ENGINEER RETAINED BY THE OWNER/ DEVELOPER.

SPECIFICATIONS FOR STREET/SITE LIGHTING ARE PER TOWN REQUIREMENTS/QUALIFIED PHOTOMETRIC ENGINEER RETAINED BY OWNER.

ALL GRAVITY SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC SDR-26 HEAVY WALL SEWER PER ASTM D3034, 115 PSI MINIMUM PIPE STIFFNESS FOR BURIAL DEPTHS UP TO 20 FEET.

PRIOR TO COMMENCEMENT OF STORM AND/OR SANITARY SEWER CONSTRUCTION, CONTRACTOR IS TO VERIFY BOTH HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER AT THE CONNECTION POINT. CONTRACTOR IS TO CONSTRUCT GRAVITY LINES PROGRESSIVELY FROM DOWNSTREAM TO UPSTREAM. ANY EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER. ANY GRADE DISCREPANCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.

DEFLECTION TESTING SHALL BE PERFORMED ON ALL FLEXIBLE GRAVITY SEWER PIPE IN ACCORDANCE WITH 10 STATE STANDARDS. TESTS SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. ANY PIPE WHICH HAS A DEFLECTION GREATER THAN 5% SHALL BE EXCAVATED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.

ALL GRAVITY SEWERS SHALL HAVE CONTINUOUS STRAIGHT HORIZONTAL & VERTICAL ALIGNMENT (LINE & GRADE) BETWEEN MANHOLES PER NYSDEC REQUIREMENTS AND TEN STATES STANDARDS. CONSTRUCTION OF GRAVITY SEWERS SHALL BE PERFORMED USING A PIPE LASER, WITH ADEQUATE BLOWER VENTILATION, TO ENSURE STRAIGHT ALIGNMENT. ANY EXCEPTIONS THIS MUST BE APPROVED BY THE ENGINEER. ALIGNMENT SHALL BE VERIFIED BY LAMPING DURING THE CCTV INSPECTION AND AFTER WORK HAS BEEN COMPLETELY BACKFILLED AND COMPACTED.

SLOPE OF SANITARY SEWER THROUGH MANHOLE STRUCTURE IS DETERMINED BY THE INCOMING PIPE. IN NO CASE, SHALL THE SLOPE THROUGH THE MANHOLE STRUCTURES BE LESS THAN 1%.

THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL SANITARY MANHOLES SUCH THAT THEY DO NOT INFILTRATE WATER AS DETERMINED BOTH BY VACUUM TESTING IN ACCORDANCE WITH ASTM C1244-05 PRIOR TO BACKFILLING AND VISUALLY THEREAFTER. ALL PIPES SHALL BE PLUGGED, BRACED, AND/OR BLOCKED TO PREVENT IMPLOSION DURING VACUUM TESTING. THE CONTRACTOR SHALL MAKE ALL MATERIAL REPLACEMENTS AND/OR REPAIRS TO ACCOMPLISH THIS.

LOW-PRESSURE AIR EXFILTRATION TESTING SHALL BE PERFORMED ON ALL GRAVITY SANITARY SEWER PRIOR TO FINAL APPROVAL SUCH AS THE TIME-PRESSURE DROP METHOD PER IN ASTM F1417-11A (2015), UNI-BELL PVC PIPE ASSOCIATION, STANDARD UNI-B-6, AND SUMMARIZED IN, UNI- BELL HANDBOOK OF PVC PIPE, SECOND PRINTING NOVEMBER 2005, PAGES 457, 458 AND, SPECIFICATION TIMES FOR 0.5 PSIG PRESSURE DROP FOR SIZES AND LENGTHS OF PIPE IN TABLE 10.12, PAGE 460. ALL SEWER PIPE ENDS SHALL BE BRACED AND/OR BLOCKED INSIDE EACH MANHOLE AND AT EACH LATERAL END TO PREVENT DISLODGEMENT OF THE PIPE.

PRESSURE SEWER MAIN PIPE SHALL BE: PR 200 PSI MIN. WHITE OR GREEN COLORED (NOT BLUE) PVC SDR-21*, PE 4710 DIPS DR-11 (PR 200 PSI) GREEN STRIPE. LOW-PRESSURE SEWER SERVICE PIPE SHALL BE: PR 200 PSI MIN. GASKETED (1-1/2" MIN.) PVC SDR-21*, PE 4710 GREEN-SHELL OR GREEN STRIPE IPS (ASTM D3035) DR-11 OR CTS SODR-9 (ASTM D2737) UPSIZED ¼-INCH OR AS NOTED ON THE PLANS. *EXCEPTION: PVC IS NOT ALLOWED TO BE USED ON SARATOGA COUNTY SEWER DISTRICT NO. 1 PERMITTED PROJECTS.

ALL PRESSURE SANITARY SEWER PIPE SHALL BE BURIED WITH TRACER WIRE SECURED TO THE PIPE WITH GORRILLA TAPE. TRACER WIRE SHALL BE 12 AWG, SINGLE CONDUCTOR, HIGH STRENGTH, FLEXIBLE, STRANDED STAINLESS STEEL, WITH HMWPE GREEN-COLORED INSULATION SUCH AS #10 AS MANUFACTURED BY KRIS-TECH WIRE CO. MAIN BRANCHES AND SERVICE CONNECTIONS SHALL BE MADE WITHOUT CUTTING THE MAIN WIRE, USING 3-WAY DIRECT-BURY LUGS WITH SILICONE GEL ENCAPSULATOR. SPLICES AT ROLL ENDS SHALL BE MECHANICALLY AND ELECTRICALLY FASTENED BY TYING WIRE IN A KNOT AND CONNECTING EXPOSED CONDUCTORS IN SILICONE GEL TWIST ENCAPSULATORS. DIRECT-BURY TRACER WIRE CONNECTORS SUCH AS DRYCONN CONNECTORS BY COPPERHEAD INDUSTRIES, LLC. TRACER WIRE SHALL BE BROUGHT UP 12" MIN. ABOVE GRADE ON THE OUTSIDE OF ALL GATE & CURB BOXES.

ALL SEWER PIPE SHALL HAVE 6-INCH WIDE, GREEN-COLORED PLASTIC SEWER UTILITY I.D. MARKING TAPE BURIED ON TOP OF THE COMPACTED INITIAL PIPE BACKFILL, 12" MIN. ABOVE THE PIPE.

SANITARY PRESSURE SEWERS, BOTH FORCE MAINS AND SERVICES, SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH WATER MAIN LEAKAGE TESTING STANDARDS, AT MINIMUM 120 PSIG AS MEASURED AT THE LOWEST POINT OF THE LINE(S) BEING TESTED, 150 PSIG WHERE ANY POTABLE WELL IS, OR IS LIKELY TO BE, WITHIN 50 FEET OF FORCE MAIN. AWWA: C600-17, FOR DUCTILE IRON PIPE, MANUAL M23 FOR PVC, AND MANUAL M55 FOR PE.

NEW GRAVITY SANITARY SEWER WORKS SHALL BE CLEANED WITH WATER JET AND VACUUM FLUSHING/COLLECTION EQUIPMENT PRIOR TO CCTV INSPECTION AND REPEATED AS NECESSARY UNTIL CLEAN, WITH ALL SOLIDS REMOVED. ALL DEBRIS SHALL BE VACUUMED OUT DURING FLUSHING OPERATIONS AND DISPOSED OF OFF SITE.

NEW GRAVITY SANITARY SEWER WORKS SHALL BE INSPECTED FOR DEFECTS BY CLOSED-CIRCUIT TELEVISION (CCTV) EQUIPMENT. REPAIRED WORKS SHALL BE RE-CLEANED AND RE-INSPECTED BY CCTV. THREE SETS OF RECORD DIGITAL VIDEO FILES AND WRITTEN INSPECTION REPORTS SHALL BE FURNISHED TO THE ENGINEER.

ALL DISCERNABLE GRAVITY SEWER DIPS (DEVIATIONS FROM CONTINUOUS POSITIVE VERTICAL ALIGNMENT) IN EXCESS OF 1/4" ESTIMATED OR ACTUAL DEPTH AND/OR DIPS GREATER THAN 3-LF IN LENGTH SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.

WATER AND SEWER SEPARATION REQUIREMENTS:
MINIMUM 18 INCHES VERTICAL SEPARATION IS REQUIRED BETWEEN WATER MAINS AND ANY EXISTING OR PROPOSED SANITARY AND STORM SEWER AT ALL CROSSINGS, MEASURED OUTSIDE TO OUTSIDE OF PIPES, WITH JOINTS EQUIDISTANT FROM CROSSING POINT, PER NY STATE HEALTH DEPARTMENT REQUIREMENTS. PARALLEL LINES MUST BE SEPARATED A MIN. OF 10 FEET.

WHERE MINIMUM SEPARATIONS CANNOT BE MET, WITH CASE-BY-CASE-APPROVAL FROM NYS DOH:

- NEW SEWERS SHALL BE CONSTRUCTED OF MIN. PR 150 PSI AWWA WATER GRADE MATERIALS AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.
- LESS THAN 10 FT. SEPARATION ONLY IF WATER MAIN IS LAID IN A SEPARATION TRENCH OR ON AN EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE GRAVITY SEWER.
- WHERE FORCE AND GRAVITY SEWERS PRE-EXIST: THE WATER MAIN SHALL BE INSTALLED WITHIN A PROTECTIVE CASING PIPE, CONSTRUCTED OF MIN. PR 150 PSI AWWA WATER GRADE MATERIALS, AND EXTEND 10 FT. MIN. ON BOTH SIDE OF THE SEWER BEING CROSSED OR, WHERE PARALLEL, TO A POINT WHERE THE LINES ARE SEPARATED BY 10 FT.
- 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 MIN. PR 150 PSI 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 FT.; OR TO A POINT WHERE THE ENDS OF THE CASING PIPE ARE 150 FT. MIN. FROM ANY WATER WELL.

CONTRACTOR TO VERIFY THE ELEVATION OF THE EXISTING WATER MAIN, TO AVOID CONFLICTS, PRIOR TO CONSTRUCTING OTHER UTILITIES.

ALL NEW WATER MAIN WORKS ARE TO BE HYDROSTATICALLY TESTED AT 150 PSIG MIN. (AS MEASURED AT THE LOWEST POINT) IN ACCORDANCE WITH AWWA STANDARDS: C600-17 FOR DUCTILE IRON PIPE, MANUAL M23 FOR PVC, AND MANUAL M55 FOR PE. RESULTS TO BE SUBMITTED TO MUNICIPAL ENGINEER. MODIFICATIONS TO EXISTING WORKS SHALL BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.

ALL WATER MAIN WORKS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C651-14 (SEE DISINFECTION PROCEDURE ON WATER DETAIL SHEET). RESULTS TO BE SUBMITTED TO THE MUNICIPAL ENGINEER.

POTABLE WATER MAIN PIPE TO BE:

- DUCTILE IRON PIPE, CLASS 52 OR 50;
- BLUE-COLORED PVC DR-18 AWWA C-900;
- WHITE OR BLUE-COLORED PVC OR PVCO SDR-21;
- PE 4710 IPS OR DIPS, DR-11 (PR 200 PSI) BLUESTRIPE AWWA C-906

POTABLE WATER SERVICE TUBING TO BE:

- TYPE K COPPER
- PE 4710 BLUE WATER SERVICE TUBING (CTS) ASTM D2737 SODR-9
- COMMERCIAL SERVICE ≥ 3" DIA.

ALL PLASTIC WATER MAIN AND WATER SERVICE TUBING SHALL BE BURIED WITH TRACER WIRE SECURED TO THE PIPE WITH GORILLA TAPE. BLUE-COLORED #10 BY KRIS-TECH WIRE CO. MAIN BRANCHES AND SERVICE CONNECTIONS SHALL BE MADE WITHOUT CUTTING THE MAIN WIRE, USING 3-WAY DIRECT-BURY LUGS WITH SILICONE GEL ENCAPSULATOR. SPLICES AT ROLL ENDS SHALL BE MECHANICALLY AND ELECTRICALLY FASTENED BY TYING WIRE IN A KNOT AND CONNECTING EXPOSED CONDUCTORS IN SILICONE GEL TWIST ENCAPSULATORS. DIRECT-BURY TRACER WIRE CONNECTORS SUCH AS DRYCONN CONNECTORS BY COPPERHEAD INDUSTRIES, LLC. TRACER WIRE SHALL BE BROUGHT UP 12" MIN. ABOVE GRADE ON THE OUTSIDE OF ALL HYDRANTS, GATE & CURB BOXES.

ALL WATER PIPE SHALL HAVE 6-INCH WIDE, BLUE-COLORED PLASTIC WATER UTILITY I.D. MARKING TAPE BURIED ON TOP OF THE COMPACTED INITIAL PIPE BACKFILL, 12" MIN. ABOVE THE PIPE.

THRUST BLOCKING TO COMPLY WITH THE MUNICIPAL STANDARDS. THRUST BLOCKS TO BE CAST-IN-PLACE CONCRETE MIN. 3,000 PSI (SEE DETAIL).

ALL STORM SEWER PIPE TO BE DUAL WALL HIGH-DENSITY POLYETHYLENE WITH SMOOTH INTERIOR AND ANNULAR CORRUGATED EXTERIOR. PIPE JOINTS ARE TO BE SILT-TIGHT WITH EITHER INTEGRAL BELL & SPIGOT JOINTS WITH RUBBER GASKETS MEETING ASTM F477, SILT-TIGHT PREMIUM BAND COUPLERS WITH RUBBER GASKETS OR STANDARD BAND COUPLERS WRAPPED WITH NON-WOVEN GEOTEXTILE FABRIC 4-FEET WIDE AND OVERLAPPED AT EACH END. WATERTIGHT JOINTS ARE REQUIRED WHERE PE PIPE IS SPECIFIED FOR SMA BASIN INLET PIPE AND FITTINGS.

CATCH BASIN GRATES ARE TO BE BICYCLE SAFE.

THE INFORMATION REPRESENTED WITHIN THESE DOCUMENTS DOES NOT IMPLY ANY CONTRACT WITH, 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.

IN THE EVENT THAT THE CONSTRUCTION STAKEOUT AND INSPECTION OF THE WORK IS NOT PERFORMED BY THE ENVIRONMENTAL DESIGN PARTNERSHIP (EDP), EDP WILL NOT BE HELD RESPONSIBLE FOR ANY ERRORS, OMISSIONS, COSTS, EXPENSES OR LIABILITY OF WHATEVER KIND AND NATURE RESULTING FROM FIELD CHANGES AND/OR ERRORS WHICH EDP WOULD OTHERWISE HAVE HAD AN OPPORTUNITY TO CHECK AND CORRECT WERE THEY IN A POSITION TO CONTROL THE PROJECT THROUGH STAKEOUT AND INSPECTION.

CLAIMS MADE AGAINST CONSULTANT FOR SURVEY STAKEOUT ERRORS WILL BE HONORED ONLY IF CONSULTANT IS NOTIFIED FOR VERIFICATION OF THE ERROR IMMEDIATELY UPON DISCOVERY AND BEFORE ANY CONTROL STAKES ARE DISTURBED. IF, AFTER VERIFICATION, IT IS DETERMINED THAT NO STAKEOUT ERROR OCCURRED, THE CLIENT SHALL REIMBURSE THE CONSULTANT FOR ADDITIONAL EXPENSES INCURRED FOR SUCH VERIFICATION.

ALL ERRORS, OMISSIONS AND DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENVIRONMENTAL DESIGN PARTNERSHIP IMMEDIATELY UPON DISCOVERY, OTHERWISE, THE ENVIRONMENTAL DESIGN PARTNERSHIP WILL ACCEPT NO RESPONSIBILITY.

INSPECTION SERVICES BY THE ENVIRONMENTAL DESIGN PARTNERSHIP ARE NOT SUPERVISORY. ACCORDINGLY, THE ENVIRONMENTAL DESIGN PARTNERSHIP CAN NEITHER GUARANTEE THE PERFORMANCE OF THE CONSTRUCTION CONTRACTS BY CONTRACTORS NOR ASSUME RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO FURNISH AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL OBTAIN A PERMIT FROM SARATOGA COUNTY SEWER DISTRICT NO. 1 PRIOR TO CONSTRUCTION OF ANY PROPOSED SANITARY SEWER LINES AND FOLLOW ALL PERMIT PROCEDURES DURING CONSTRUCTION.

17/27 PUBLIC SIDEWALK SIGN
NOT TO SCALE

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

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

THE ALTERATION OF THESE DOCUMENTS IN ANY WAY, UNLESS DONE UNDER THE DIRECT SUPERVISION OF A COMPARABLE PROFESSIONAL, (I.E.) ENGINEER FOR AN ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT OR SURVEYOR FOR A SURVEYOR, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

REVISION	DATE	BY

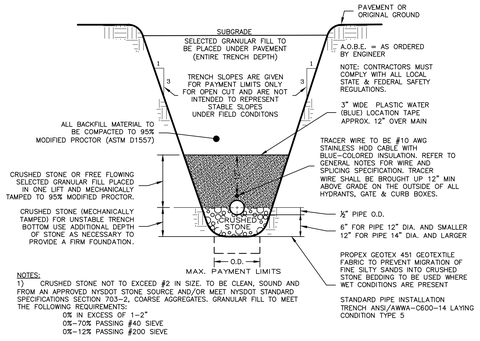
SCALE: N.T.S.

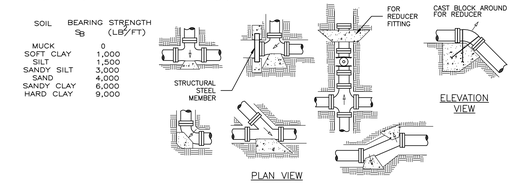
NOT FOR CONSTRUCTION

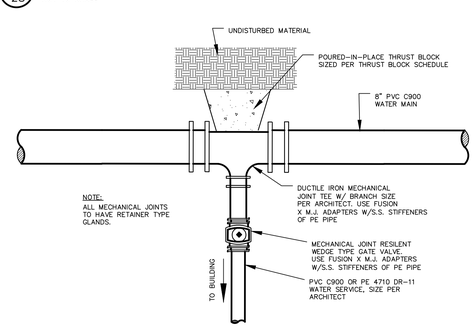
SHEET TITLE: SITE DETAILS

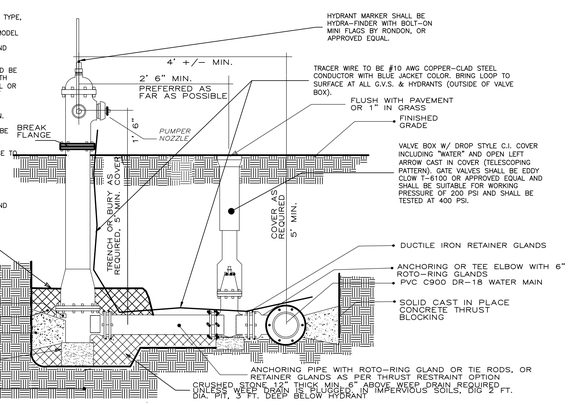
SHEET: 27 of 29

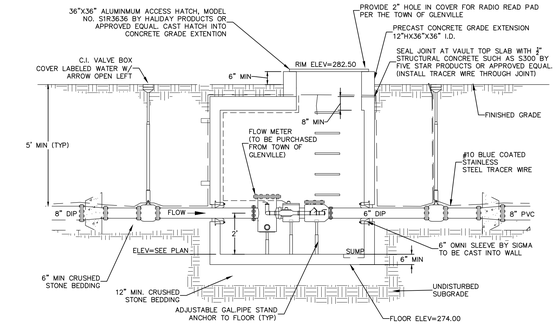
G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\RBC Freemans Bridge Rd - RBC\05-dwg\Detailed Plans\SHEETS\10_DET_DUTCHMEADOWS.dwg Mar 21, 2020 09:34:45AM

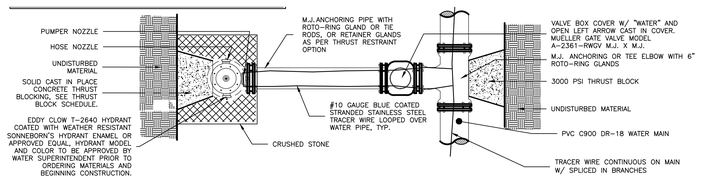


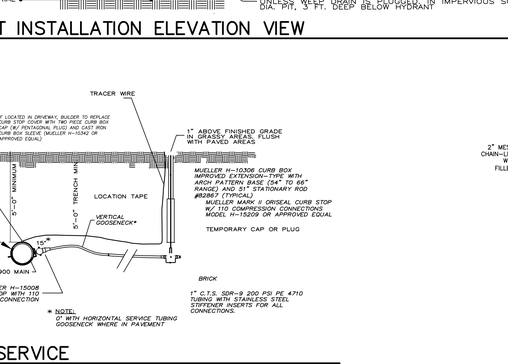


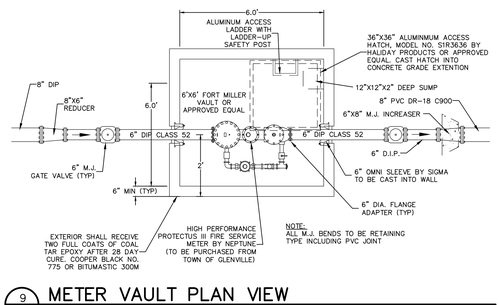


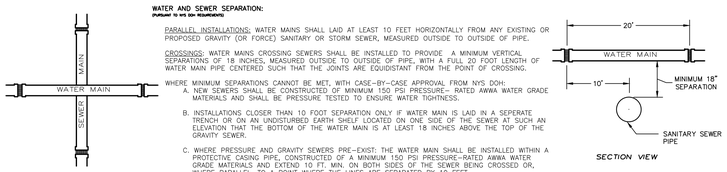


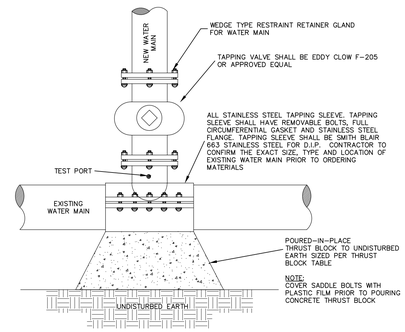


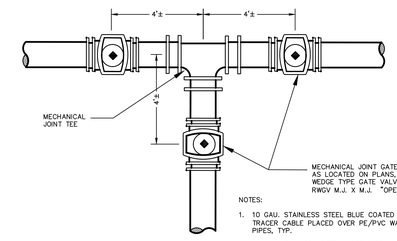


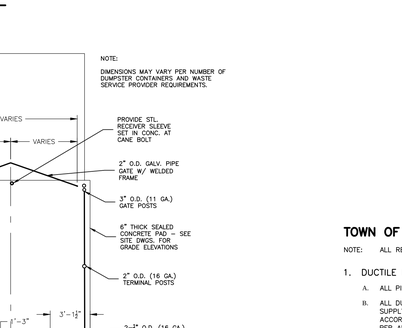


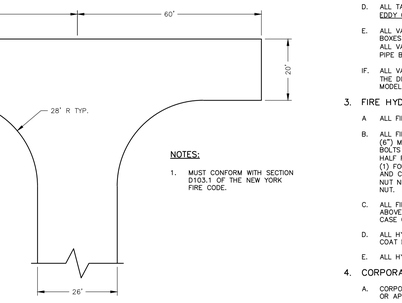












NOTES:

1) CRUSHED STONE NOT TO EXCEED #2 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 1-2"
0%-70% PASSING #40 SIEVE
0%-12% PASSING #200 SIEVE

1/28 WATER TRENCH
NOT TO SCALE

2/28 TYPICAL SERVICE CONNECTION DETAIL
NOT TO SCALE

3/28 METER VAULT ELEVATION VIEW
NOT TO SCALE

4/28 HYDRANT INSTALLATION PLAN VIEW
NOT TO SCALE

WATER AND SEWER SEPARATION:
(PURSUANT TO NYS DOH REQUIREMENTS)

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 THE 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

5/28 WATER-SEWER SEPARATION
NOT TO SCALE

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
SOIL BEARING OF 3.000 PSI
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	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

SOIL	BEARING STRENGTH S_B (LB/FT^2)
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000

THRUST BLOCK NOTES:

1. VALUES 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.

6/28 THRUST BLOCKS (TYPICAL)
NOT TO SCALE

NOTES:

ALL FIRE HYDRANTS SHALL BE CLOW EDDY F-2640 TYPE, COATED WITH WEATHER RESISTANT SONNEBORN'S HYDRANT ENAMEL OR APPROVED EQUAL. HYDRANT MODEL AND COLOR TO BE APPROVED BY WATER SUPERINTENDENT PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

HYDRANTS SHALL BE INSTALLED TRULY VERTICAL AND BE CAREFULLY PLUMBED, AND FINISH COAT PAINTED WITH WEATHER RESISTANT SONNEBORN'S HYDRANT ENAMEL OR APPROVED EQUAL. HYDRANT MODEL SHALL BE EDDY CLOW T-2640 OR APPROVED EQUAL; COLOR TO BE APPROVED BY WATER SUPERINTENDENT PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

ALL HYDRANTS WITH PLUGGED WEEP HOLES SHALL BE EQUIPPED WITH A BRASS TAG INDICATING THAT THE HYDRANT WEEP HOLE IS PLUGGED AND THAT THE HYDRANT WILL NEED TO BE PUMPED OUT AFTER USE TO PREVENT FREEZING.

ALL HYDRANTS SHALL HAVE A STEEL HYDRANT MARKER PAINTED AS PER TOWN WATER SPECIFICATIONS

HYDRANT, NOZZLE THREADS, DIRECTION OF OPEN AND OPERATING NUT PER THE TOWN OF GLENVILLE REQUIREMENTS.

7/28 HYDRANT INSTALLATION ELEVATION VIEW
NOT TO SCALE

8/28 WATER SERVICE
NOT TO SCALE

9/28 METER VAULT PLAN VIEW
NOT TO SCALE

10/28 TAPPING SADDLE AND VALVE
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.

11/28 TYPICAL JUNCTION LAYOUT
NOT TO SCALE

12/28 TRASH ENCLOSURE PLAN
NOT TO SCALE

NOTES:

1. MUST CONFORM WITH SECTION D103.1 OF THE NEW YORK FIRE CODE.

13/28 TEMPORARY TURNAROUND
NOT TO SCALE

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 METHOD. 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. BASIC DISINFECTION BY SPRAYING OR SWABBING WITH MIN 1% CHLORINE SOLUTION IN ACCORDANCE WITH, SECTION 4.11.2, SHALL BE USED 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 BACKFLOW CAUSED BY HYDROSTATIC PRESSURE TESTING AND DISINFECTION PROCEDURES. THE SUPPLY VALVE SHALL BE KEPT CLOSED AT ALL TIMES EXCEPT DURING FLUSHING 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 2.5 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 THAT 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: TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN AT LEAST 24 HOURS APART, SHALL BE COLLECTED FROM THE NEW MAIN 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. FOR ANY FAILED SAMPLE RESULT, REFLUSH THE NEW MAIN AND RESAMPLE. IF CHECK SAMPLES FAIL, THE MAIN SHALL BE RECHLORINATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

WATER NOTES:

1) ALL PIPE MATERIALS AND APPURTENANCES ARE SUBJECT TO APPROVAL BY THE MUNICIPAL ENGINEER. CONTRACTOR TO CONFIRM WITH MUNICIPALITY 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: C600-10 FOR DUCTILE IRON, C900-07 OR MANUAL 23 FOR PVC AND C906-15 OR MANUAL M55 FOR PE PIPE.
7) ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA STANDARD C602.
8) ALL PE 4710 (3408) WATER PIPE SHALL BE NSF/AWWA CERTIFIED AND HAVE BLUE STRIPES OR BE COLORED BLUE.
9) ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA C105 UNLESS TEST RESULTS PROVIDED BY THE CONTRACTOR INDICATE THE ABSENCE OF SEVERELY AGGRESSIVE SOILS.
10) ALL WATER PIPE AND APPURTENANCES SHALL BE EITHER NSF OR UL APPROVED FOR USE WITH POTABLE WATER AND SHALL BEAR THEIR RESPECTIVE SEAL.
11) HYDRANTS SHALL BE LOCATED AT STREET INTERSECTIONS AND AT INTERMEDIATE POINTS AS INDICATED ON THE PLANS. CARE SHALL BE USED, WHEN LAYING MAINS, SO AS TO AVOID CREATING HIGH POINTS BETWEEN HYDRANTS.
12) MINIMUM SEPARATIONS BETWEEN WATER MAINS AND SANITARY AND STORM SEWERS ARE REQUIRED PER TEN STATE STANDARDS AT CROSSINGS, 18" MIN; WHERE PARALLEL, 10 FT. MIN. (MEASURED O.D. TO O.D.)

    WHERE MINIMUM SEPARATIONS CANNOT BE MAINTAINED:

    NEW SEWERS SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS EQUIVALENT TO WATER WORKS GRADE 150 PSI (1.0 Mpa) PRESSURE RATED PIPE MEETING AWWA STANDARDS OR PIPE APPROVED BY THE REVIEWING AUTHORITY AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.

    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.
13) THRUST RESTRAINT METHODS SHALL COMPLY WITH MUNICIPAL STANDARDS. 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.
14) ALL NEW WATER MAIN WORKS ARE TO BE HYDROSTATICALLY TESTED AGAINST THE MAIN AT 150 PSI MIN. TAPPING CONNECTIONS, CURB STOPS AND SERVICE LATERALS TO BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL. IN ACCORDANCE WITH AWWA STANDARDS: C600-10 SECT. 4. FOR DUCTILE IRON, C900-07 OR MANUAL M23 FOR PVC, C906-15 OR MANUAL M55 FOR PE. RESULTS TO BE SUBMITTED TO MUNICIPAL ENGINEER. MODIFICATIONS TO EXISTING WORKS SHALL BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.
15) ALL WATER MAIN WORKS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C651-14 (SEE DISINFECTION PROCEDURE THIS SHEET) RESULTS TO BE SUBMITTED TO THE MUNICIPAL ENGINEER.
16) 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).
17) 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.
18) IT 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.
19) 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.
20) ALL GENERAL AND SPECIFIC NOTES AND DETAILS ON OTHER PLAN SHEETS THAT ARE PART OF THESE PLANS SHALL APPLY.
21) 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.
22) 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.

TOWN OF GLENVILLE TECHNICAL SPECIFICATIONS FOR WATER WORKS MATERIALS

NOTE: ALL REFERENCE TO STANDARD ANSI, AWWA OR ASTM SPECIFICATIONS SHALL BE THE LATEST EDITION

1. DUCTILE IRON PIPE AND FITTINGS:

A. ALL PIPE FOR WATER MAINS SHALL BE DUCTILE IRON PIPE FURNISHED 18 OR 20 FOOT NOMINAL LAYING LENGTHS.

B. ALL DUCTILE IRON PIPE SHALL BE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS WITH ALL DETAILS OF MANUFACTURE AND SUPPLY IN COMPLETE CONFORMANCE WITH ANSI/AWWA C151/A21.51. ALL DUCTILE IRON PIPE SHALL BE DESIGNATED AND SELECTED IN ACCORDANCE WITH ANSI/AWWA C 150/A21.50. ALL DUCTILE IRON PIPE SHALL BE MINIMUM PIPE WALL THICKNESS OF 0.25 INCHES (CLASS '52) PER ANSI/AWWA C150/A21.501.

C. ALL PIPE SHALL HAVE PUSH-ON JOINTS IN COMPLETE CONFORMANCE ANSI/AWWA C111/A21.11. THE PIPE MANUFACTURER SHALL FURNISH THE REQUIRED RUBBER JOINT GASKETS AND JOINT LUBRICANT TOGETHER WITH FOUR (4) SILICON BRONZE WEDGES WITH EACH LENGTH OF PIPE.

D. ALL PIPE FITTINGS SHALL BE DUCTILE IRON AND SHALL BE SHORT BODY IN COMPLETE CONFORMANCE WITH ANSI/AWWA C110. ALL FITTINGS SHALL HAVE A MINIMUM PRESSURE RATING OF 350 POUNDS PER SQUARE INCH (PSI). ALL FITTINGS SHALL HAVE MECHANICAL JOINTS IN COMPLETE CONFORMANCE WITH ANSI/AWWA C111/A21.11. THE PIPE MANUFACTURER SHALL FURNISH THE REQUIRED JOINT ACCESSORIES CONSISTING OF DUCTILE IRON AND REQUIRED JOINT LUBRICANT.

E. ALL DUCTILE IRON PIPE AND DUCTILE IRON FILLINGS SHALL BE CEMENT MORTAR LINED AND PAINT SEAL COATED IN CONFORMANCE WITH ANSI/AWWA C104/AS1.4. THE THICKNESS OF THE LINING SHALL BE TWICE THE STANDARD AND SHALL BE NOT LESS THAN 1/8-INCH THICK FOR ALL PIPES.

2. GATE VALVES AND TAPPING SLEEVES AND VALVE BOXES:

A. ALL GATE VALVES SHALL BE EDDY CLOW F-6100 RESIDUAL WEDGE OR APPROVED EQUAL.

B. ALL GATE VALVES FOR WATER MAINS SHALL CONFORM TO ANSI/AWWA C500 AND SHALL BE SUITABLE FOR MINIMUM WORKING PRESSURE OF 200 PSI AFTER HAVING BEEN HYDROSTATICALLY TESTED TO 400 PSI AFTER MANUFACTURE. ALL VALVES SHALL OPEN LEFT WITH A STANDARD 2 INCH SQUARE OPERATING NUT. ALL VALVES SHALL BE FURNISHED WITH MECHANICAL JOINT ENDS COMPLETE WITH DUCTILE IRON RETAINER GLANDS CLOW F-6100. ALL T-HEADED BOLTS SHALL BE FLUOROCARBON BOLTS.

C. ALL GATE VALVES SHALL BE R/W, IRON BODY, BRONZE MOUNTED, NON-RISING STEM, AND SHALL BE FURNISHED WITH DOUBLE O-RING PACKING.

D. ALL TAPPING SLEEVES SHALL BE SMITH BLAIR 663 STAINLESS STEEL FOR CAST IRON OR DUCTILE IRON PIPE. THE TAPPING VALVE SHALL BE EDDY CLOW F-205 OR APPROVED EQUAL WITH (O-RING AND SHALL OPEN LEFT).

E. ALL VALVES BOXES SHALL BE OF CAST IRON, TELESCOPIC PATTERN, AT LEAST FIVE AND ONE QUARTER INCH (5-1/4") IN DIAMETER. VALVE BOXES FOR 6-INCH DIAMETER VALVES SHALL GENERALLY HAVE A 26 INCH TOP SECTION AND A 36 INCH BOTTOM SECTION, BUT IN ALL CASES, ALL VALVE BOXES SHALL BE FURNISHED TO MATCH THE SPECIFIC VALVE DIMENSIONS AND TRENCH DEPTH INVOLVED (5 FEET OF COVER OVER PIPE BARREL)

IF. ALL VALVE BOXES SHALL BE FURNISHED WITH A CAST IRON COVER, DROP STYLE, WITH BOTH THE WORD "WATER" AND AN ARROW INDICATING THE DIRECTION OF THE VALVE OPENING (OPEN LEFT) CAST ON THE COVER IN RAISED CHARACTERS. VALVE BOXES SHALL BE CLOW F-2452 MODEL 664-A WITH A F-2490 COVER OR APPROVED EQUAL.

3. FIRE HYDRANTS:

A ALL FIRE HYDRANTS SHALL BE EDDY F-2640.

B. ALL FIRE HYDRANTS SHALL CONFORM TO ANSI/AWWA C302 WITH FIVE AND ONE QUARTER INCH (5-1/4") MAIN VALVE OPENING AND SIX-INCH (6") MECHANICAL JOINT INLET CONNECTION FURNISHED COMPLETE WITH DUCTILE IRON RETAINER GLANDS CLOW F-2640, ONLY FLUOROCARBON BOLTS AND NUTS, PLAIN BACKED RUBBER GASKETS, AND REQUIRED JOINT LUBRICANT. HYDRANTS SHALL BE SUITABLE FOR A FIVE AND ONE HALF FOOT (5-1/2') DEEP TRENCH. EACH HYDRANT SHALL HAVE TWO (2) TWO AND ONE HALF INCH (2-1/2") HOSE CONNECTIONS AND ONE (1) FOUR AND ONE HALF INCH (4-1/2") PUMPER CONNECTION, ALL WITH NATIONAL STANDARD HOSE THREADS AND WITH OUTLET NOZZLE CAPS AND CAP CHAINS. ALL HYDRANTS SHALL HAVE DOUBLE O-RING PACKING, AND SHALL BE WITH NATIONAL STANDARD FIVE SIDED OPERATING NUT NEASURING ONE AND ONE HALF INCH (1-1/2") FLAT TO POINT. THE OUTLET NOZZLE CAP NUTS SHALL BE THE SAME AS THE OPEARTING NUT.

C. ALL FIRE HYDRANTS SHALL BE TRUE TRAFFIC TYPE WITH BREAK FLANGE CONSTRUCTION WITH A FLANGIBLE BREAK FLANGE LOCATED SLIGHTLY ABOVE THE GROUND LINE AND A CAST IRON BREAK COUPLING ON THE STEM AT THE SAME LOCATION, WHICH SHALL BE SO DESIGNED THAT IN CASE OF BREAKAGE, ONLY THE BREAK FLANGE AND CAST IRON COUPLING NEED TO BE REPLACED TO COMPLETE REPAIR.

D. ALL HYDRANTS SHALL RECEIVE A FINISH COAT OF WEATHER RESISTANT PAINT ABOVE THE GROUND LINE AFTER INSTALLATION. THE FINISH COAT MUST MEET THE TOWN OF GLENVILLE REQUIREMENTS.

E. ALL HYDRANTS SHALL HAVE A BOLT ON SPRING LOADED HYDRANT MARKER WITH MINIMUM 4 FOOT LENGTH.

4. CORPORATION STOPS:

A. CORPORATION STOPS SHALL BE -INCH OR 1-INCH IN DIAMETER WITH COMPRESSION CONNECTIONS AND SHALL BE MUELLER H-15000 SERIES OR APPROVED EQUAL BY TOWN OF GLENVILLE WATER DEPARTMENT INSPECTOR.

5. CURB STOPS AND BOXES:

A. CURB STOPS SHALL BE AS NOTED ON PLANS AND DETAILS.

NOTE:
ALL BELOW GRADE WATER MAIN FITTINGS SHALL USE "BLUE BOLTS".

6. SERVICE PIPE:

A. AS NOTED ON PLANS AND DETAILS.

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

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

THE ALTERATION OF THESE DOCUMENTS IN ANY WAY, UNLESS DONE UNDER THE DIRECT SUPERVISION OF A COMPARABLE PROFESSIONAL, (I.E.) ENGINEER FOR AN ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT OR SURVEYOR FOR A SURVEYOR, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

REVISION	DATE	BY

SCALE:
N.T.S.

NOT FOR CONSTRUCTION

SHEET TITLE:
SITE □ WATER DETAILS

SHEET:
28 of 29

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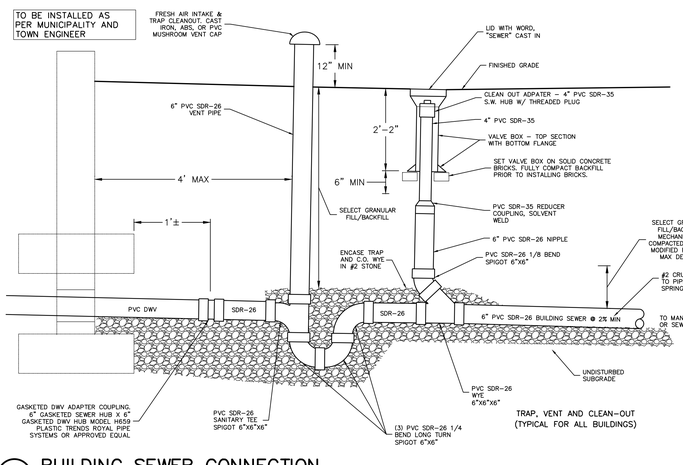
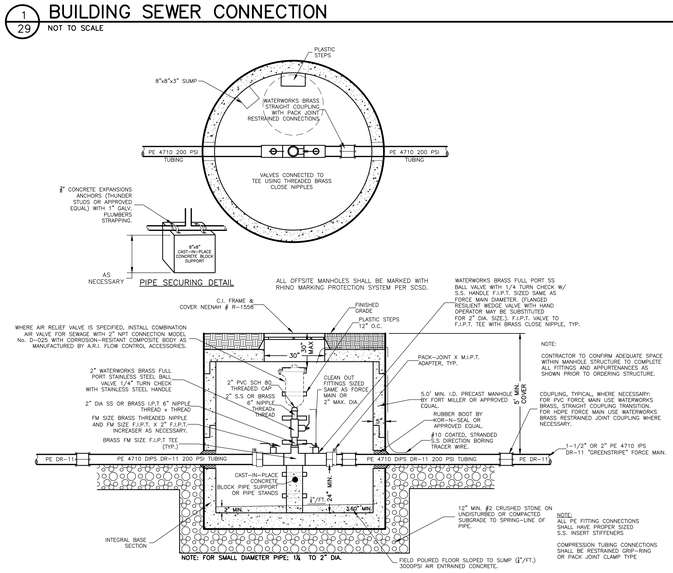


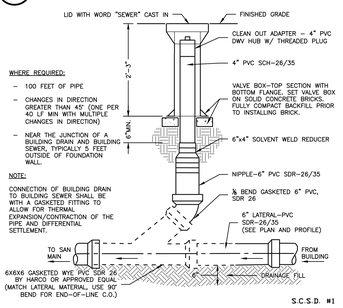
1/29 BUILDING SEWER CONNECTION

NOT TO SCALE



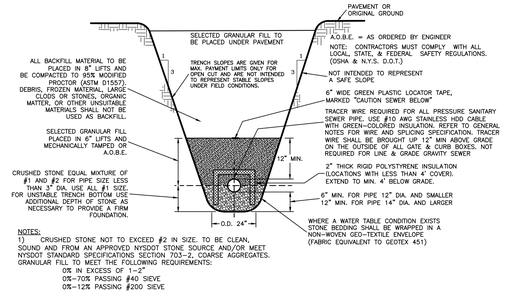
2/29 PRESSURE SANITARY SEWER IN-LINE CLEAN OUT AND AIR RELIEF STATION

NOT TO SCALE



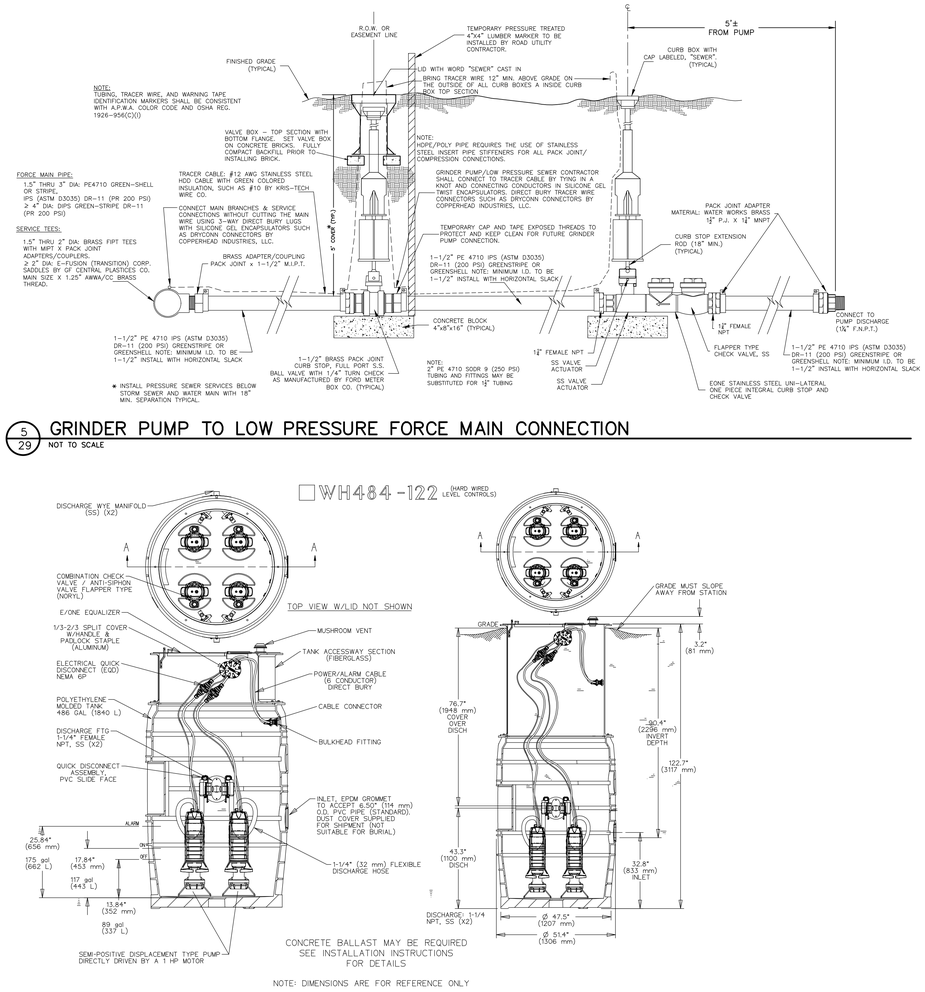
3/29 SANITARY SEWER CLEANOUT

NOT TO SCALE



4/29 SANITARY SEWER TRENCH

NOT TO SCALE



5/29 GRINDER PUMP TO LOW PRESSURE FORCE MAIN CONNECTION

NOT TO SCALE

GRINDER PUMP INSTALLATION NOTES:

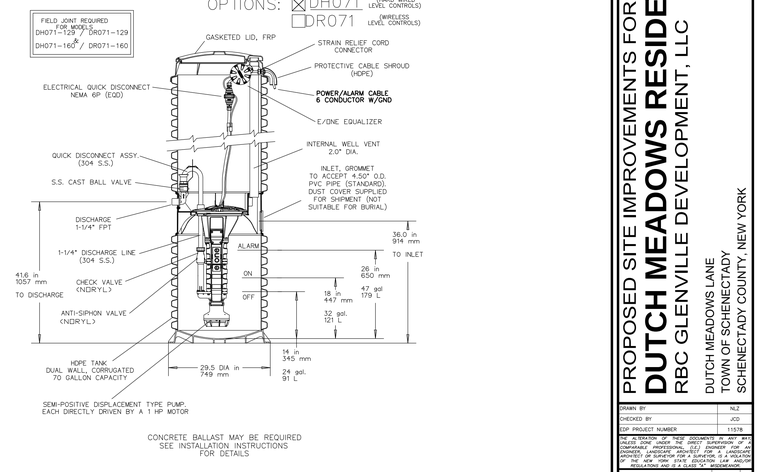
1. GRINDER PUMP ON EACH LOT SHALL BE CONSTRUCTED A THE TIME OF ACTUAL HOME CONSTRUCTION. A SEPARATE GRINDER PUMP PERMIT IS REQUIRED FOR EACH LOT REQUIRING A GRINDER PUMP.
2. LOCATION AND CONSTRUCTION OF GRINDER PUMPS SHALL BE APPROVED BY SCHENECTADY COUNTY SEWER DISTRICT PRIOR TO APPLICATION FOR A BUILDING PERMIT. A PLOT PLAN OF THE LOT SHALL BE SUBMITTED TO FOR REVIEW. GENERAL GUIDELINES:
   - GRINDER PUMP SHALL BE LOCATED 10' MAXIMUM FROM HARD SURFACE.
   - HOUSE SERVICE CONNECTION TO GRINDER PUMP SHALL BE GRAVITY LINE ONLY.
   - GRINDER PUMP SHALL BE LOCATED 10' MIN. FROM HOUSE
3. NO BUILDING PERMIT SHALL BE ISSUED PRIOR TO APPROVAL OF THE LOCATION OF THE GRINDER PUMP BY THE SCHENECTADY COUNTY SEWER DISTRICT. WRITTEN APPROVAL BY THE DISTRICT SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AT A TIME OF APPLICATION FOR BUILDING PERMIT.
4. ALL GRINDER PUMP UNITS ARE TO BE TESTED AFTER COMPLETION OF ALL GRADING AND LAWN LANDSCAPING. UNITS AND PIPING TO BE TESTED FOR 5 MINUTES AT 120 P.S.I.G.
5. ALL UNITS TO BE FINAL TESTED AFTER ALL SITE IMPROVEMENTS AND LANDSCAPING COMPLETED TO VERIFY THAT NO DAMAGE TO FORCE MAIN OCCURRED DURING CONSTRUCTION. TEST TO INCLUDE THAT PRESSURE IS MAINTAINED BY THE SYSTEM AND MUST BE WITNESSED BY SARATOGA COUNTY SEWER DISTRICT PERSONNEL. THE CONTRACTOR SHALL ESTABLISH FLOW AT THE PROPERTY LINE SHUT OFF UPON GRINDER PUMP START UP AND WHEN THE PUMP IS PLACED IN SERVICE.
6. GRINDER PUMPS WILL BE OWNED BY THE HOMEOWNER AND OPERATED AND MAINTAINED BY THE HOMEOWNER
7. **GRINDER PUMPS MUST BE AS MANUFACTURED BY BARNES, ENVIRONMENT ONE, OR HYDRO–MATIC. THIS PROJECT'S L.P.S. FORCE MAIN PIPE SIZES ARE DESIGNED FOR EONE GRINDER PUMPS ONLY. USE OF CENTRIFUGAL GRINDER PUMPS WILL REQUIRE LARGER DIAMETER FORCE MAIN PIPE.**
8. SUMP PUMPS SHALL NOT BE CONNECTED TO BUILDING SEWERS UNDER ANY CIRCUMSTANCE.
9. VALVE STEMS FOR THE GRINDER PUMP SYSTEM SHALL REMAIN CLOSED UNTIL THE GRINDER PUMPS ARE PLACED INTO SERVICE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING FLOW AT THE PROPERTY LINE SHUT OFF, GRINDER PUMP START UP AND WHEN GRINDER IS PLACED INTO SERVICE.
11. **IN ORDER TO PREVENT SEWER BACKUPS DURING POWER OUTAGES EITHER A GENERATOR WITH AUTOMATIC TRANSFER SWITCH SHOULD BE INSTALLED OR A SOLENOID SHUTOFF VALVE FOR THE WATER SUPPLY LINE (WITH MANUAL OVERRIDE) SHOULD BE INSTALLED.**
12. **ALL E–ONE GRINDER PUMP MODELS AND CONTROL PANELS SHALL HAVE PORTABLE GENERATOR ATTACHMENT OPTION**

ELECTRICAL NOTES:

1. CONTRACTOR TO VERIFY LINE VOLTAGE AT THE SITE.
2. ELECTRONIC/ELECTRIC CONTROL PANEL SHALL BE SIMPLEX MODEL AS SUPPLIED BY E–ONE OR APPROVED EQUAL. PANEL OPTIONS SHALL INCLUDE AN AUDIBLE ALARM WITH SILENCE AND VISUAL ALARM LIGHT FOR HIGH WATER CONDITIONS IN THE WET WELL. PANEL TO BE LOCATED IN A CONSPICUOUS LOCATION AS APPROVED BY THE OWNER: OUTSIDE ON SIDE OF BUILDING FACING THE UNIT OR ON AN ANCHORED 6"x6" POST NEAR THE UNIT; INSIDE IN AN UNLOCKED ROOM, BASEMENT, OR STAIRWELL.
3. PUMP STATION AND PUMP(S) SHALL MEET ALL APPLICABLE NEC, STATE AND LOCAL CODES FOR USE IN AN INDIVIDUAL RESIDENTIAL APPLICATION
4. ALL ELECTRICAL WORK TO BE DONE IN FULL COMPLIANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.
5. THERE SHALL BE NO ELECTRICAL SPLICES, JUNCTION BOXES, OR CONNECTIONS OF ANY KIND IN THE PUMP TANK.
6. IN THE EVENT THAT THE NEMA 4 CONTROL PANEL IS TO BE LOCATED OUTSIDE, A THERMOSTATTED HEATER SHALL BE PROVIDED TO PREVENT CONDENSATION. ANY CONTROL PANEL OR JUNCTION BOX SHALL BE LOCATED A MINIMUM OF 5 FEET FROM VENT/HATCH OPENINGS.
7. THE NEW YORK BOARD OF FIRE UNDERWRITERS MUST CERTIFY ELECTRICAL EQUIPMENT INSTALLED PURSUANT TO THIS PLAN. A COPY OF THAT CERTIFICATE SHALL BE FURNISHED TO THE ENGINEER OF RECORD AND THE OWNER PRIOR TO ISSUANCE OF FINAL PAYMENT.
8. LEVEL CONTROL SWITCHES SHALL BE INTRINSICALLY SAFE

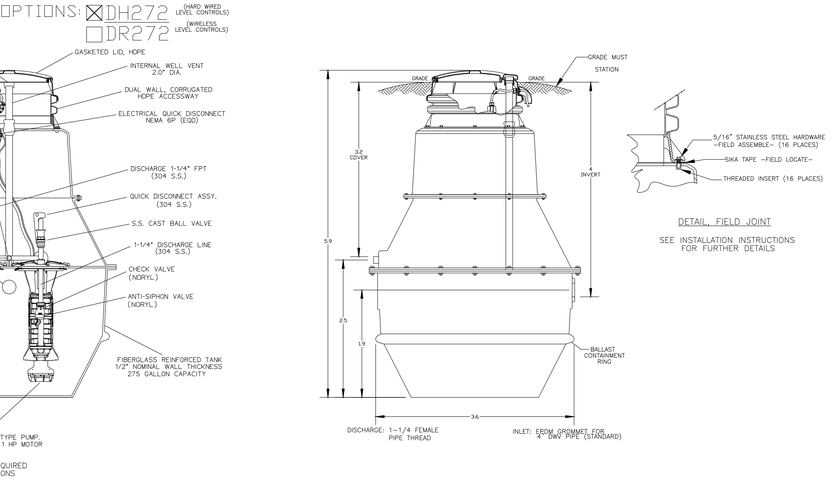
6/29 EONE QUADPLEX GRINDER PUMP

NOT TO SCALE



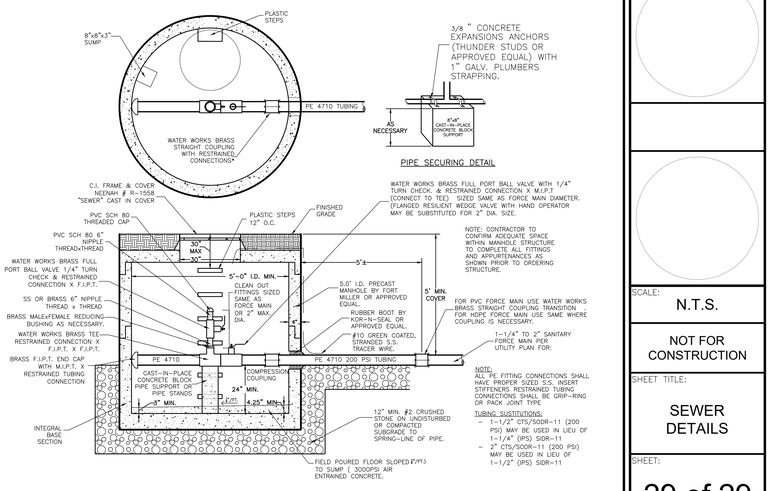
8/29 EONE DH071 GRINDER PUMP

NOT TO SCALE



7/29 EONE DUPLEX GRINDER PUMP

NOT TO SCALE



9/29 PRESSURE SEWER END–OF–LINE–CLEAN OUT

NOT TO SCALE

engineering environmental planning
ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York 12065
(518) 373-1421 edpllp.com

PROPOSED SITE IMPROVEMENTS FOR DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

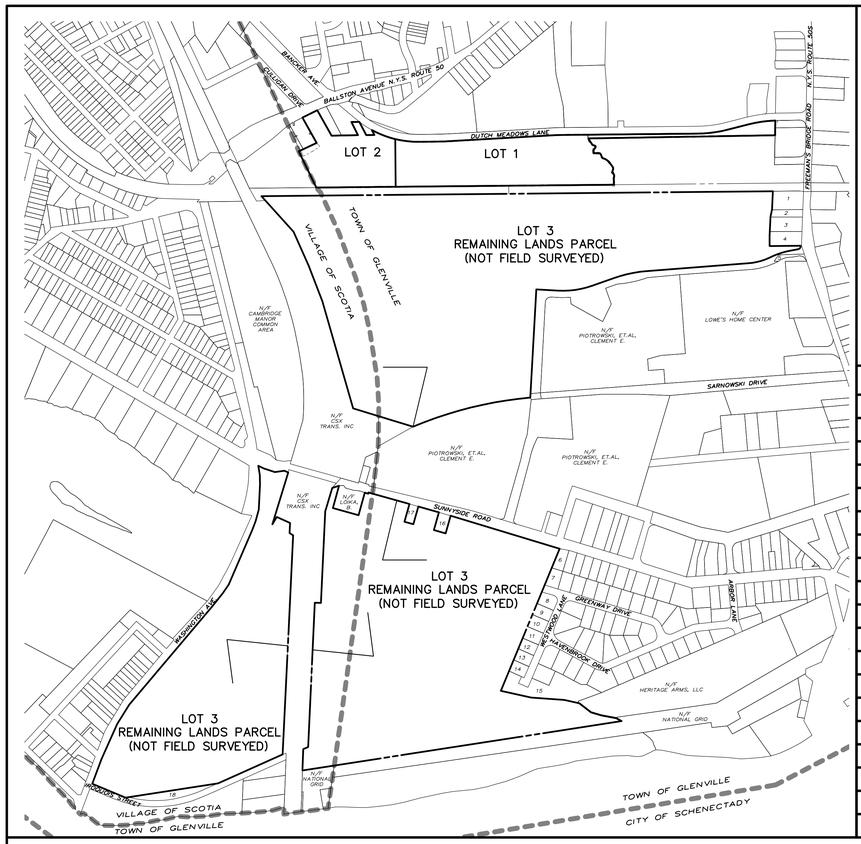
SCALE: N.T.S.

NOT FOR CONSTRUCTION

SHEET TITLE: SEWER DETAILS

SHEET: 29 of 29

G:\SCHENECTADY\GLENVILLE\Dutch Meadows Lane\01 Freeworks Bridge Rd - RBC\05-dwg\Updated Plans\SHEET\10_DET_DUTCHMEADOWS.dwg Mar 21, 2020 09:36:51AM



LOT 3 — REMAINING LANDS

SCALE: 1" = 500'

ADJOINING PARCEL OWNERS LEGEND	
LABEL	OWNER NAME
1	ULTIMATE LLC
2	PIOTROWSKI, IDA
3	TLEUL, YOUSEFF H.
4	TLEUL, YOUSEFF H.
5	PIOTROWSKI, IDA
6	PETRICCA, NORMAN
7	BROWN, JEFFREY M & MAUREEN
8	BENSON, GEORGE A.
9	PASQUARIELLO, DOLORES E.
10	DE ANGELO, MARK
11	SARNOWSKI, PATRICIA A.
12	DE GRAW, FRANK & ROXANNE
13	LOO, CHUAN C &
14	POLLICINO, DENIS L & JENNIFER B
15	POLSINELLI, PETER
16	ADAIR, ADELBERT
17	TRUELOVE, KATHLEEN B. (LC)
18	NATIONAL GRID

MAP REFERENCES:

1) Map Entitled:

Map Date: March 23, 2020
Prepared By: The Environmental Design Partnership, LLP
Map Filed: June 15, 2018
Map No.

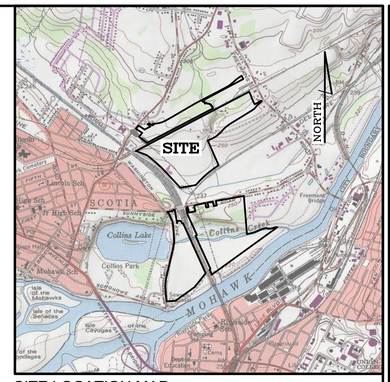
SURVEY NOTES:

1) XX

DEED REFERENCES:

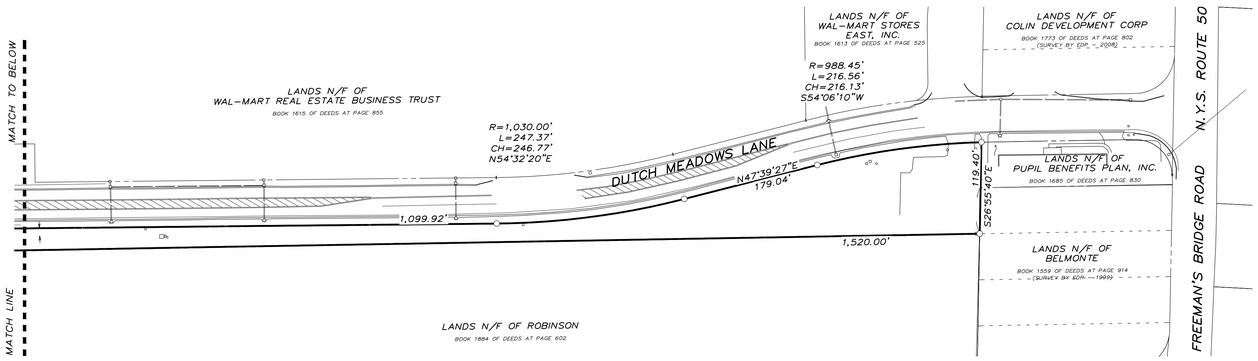
SITE STATISTICS:

ZONING DISTRICTS	
EXISTING	GENERAL BUSINESS
PROPOSED	RESIDENTIAL PLANNED DEVELOPMENT DISTRICT
PARCEL AREA	24.197± ACRES
PROPOSED USE	APARTMENT/ TOWN HOUSE
UNITS PROPOSED	237 UNITS
PARKING	
STANDARD SPACES	238
HANDICAP SPACES	9
GARAGE SPACES	166
TOTAL PARKING	413
PARKING RATIO	1.7± SPACES PER UNIT
STORMWATER MANAGEMENT	ONSITE
SANITARY PROVISIONS	GLENVILLE SEWER DISTRICT #8
WATER PROVISIONS	GLENVILLE WATER DISTRICT #11



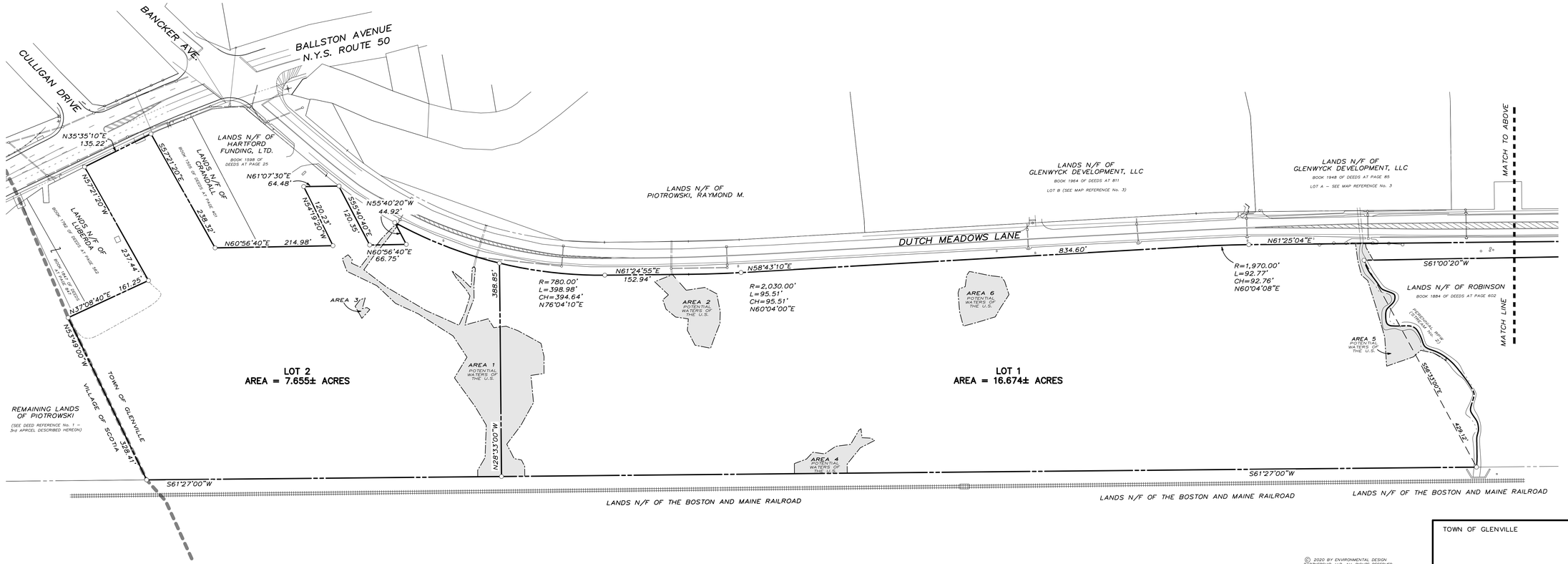
SITE LOCATION MAP

SCALE: 1" = 2,000'



LOT 1 — WEST

SCALE: 1" = 80'



LOT 1 AND 2

SCALE: 1" = 80'

GRAPHIC SCALE

80 60 40 20 0 80 160 320

(IN FEET)

1 INCH = 80 FT.

□ 0000 JOB

TOWN OF GLENVILLE

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900 Route 146 Clifton Park, New York 12065
(518) 371-7421 edpllp.com

SITE IMPROVEMENTS FOR DUTCH MEADOWS RESIDENTIAL COMMUNITY

RBC GLENVILLE DEVELOPMENT, LLC

LOCATED ALONG DUTCH MEADOWS LANE
TOWN OF GLENVILLE
SCHENECTADY COUNTY, NEW YORK

TAX MAP No. 30.-1-24.411
MARCH 23, 2020

DRAWN BY	TSH
CHECKED BY	TJM
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

TIMOTHY □
M□ALONEN
PLS 50,471
tmcalonen@edpllp.com

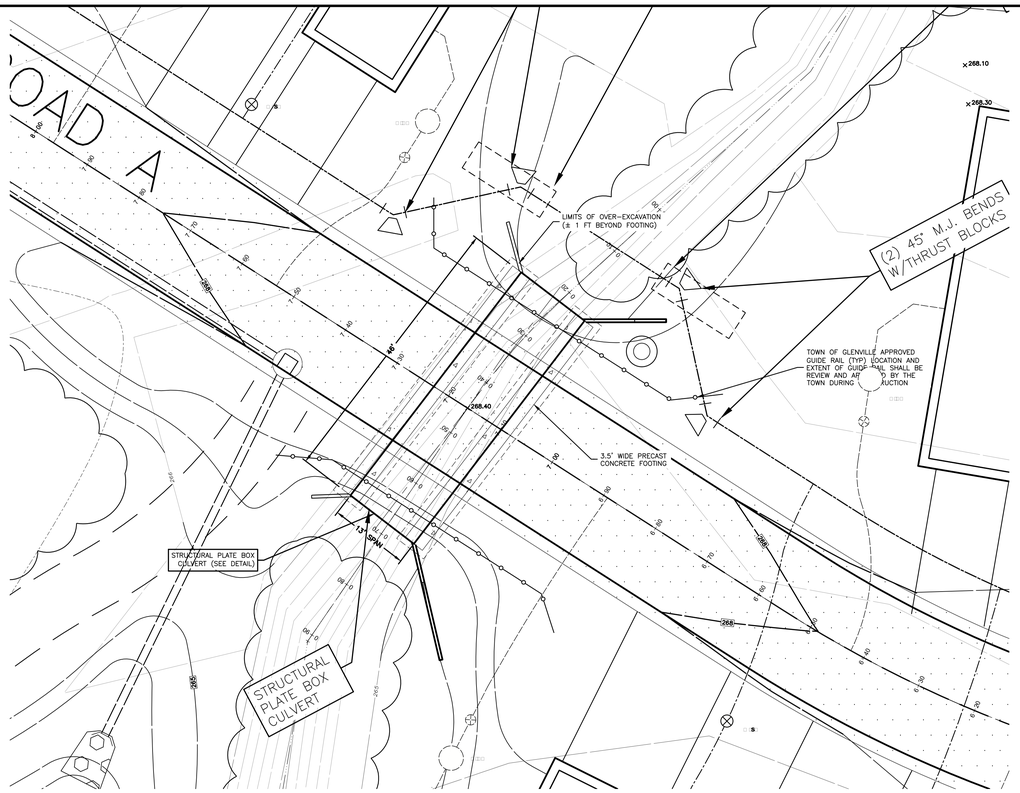
STATE OF NEW YORK
TIMOTHY JOSEPH M□ALONEN
050471
LICENSED LAND SURVEYOR

SCALE:
AS SHOWN

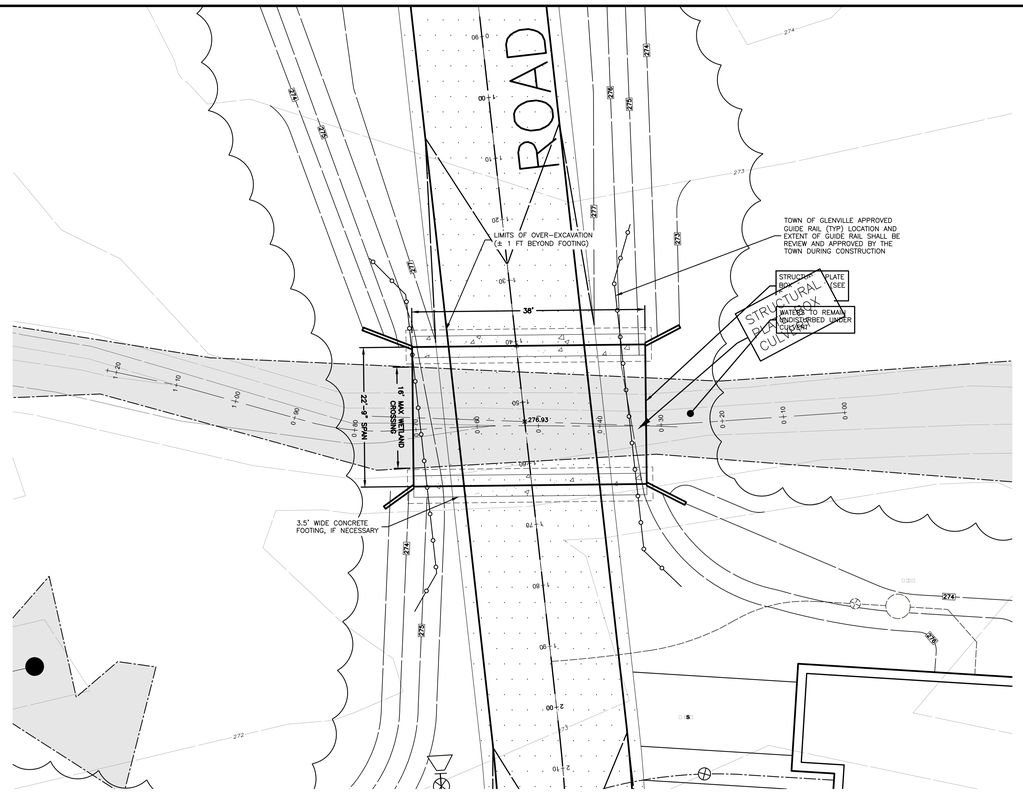
SHEET TITLE:
SUBDIVISION PLAN

SHEET:
1 of 1

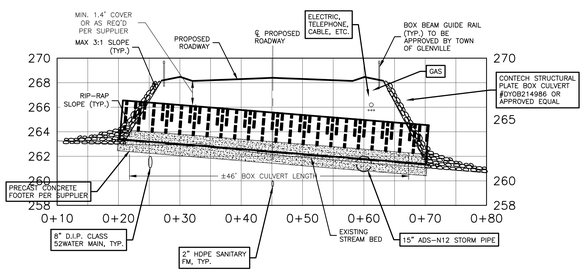
□:\SCHENECTADY\GLENVILLE\D □ M □ oc □ L □ □ □ 81 Fi □ □ □ □ Bx8 - R8C/35-5 - □ □ □ □ d P □ □ SHEETS SK SD\DUTCHMEADOWS.d □ - M □ 21, 2020 09:37:32AM

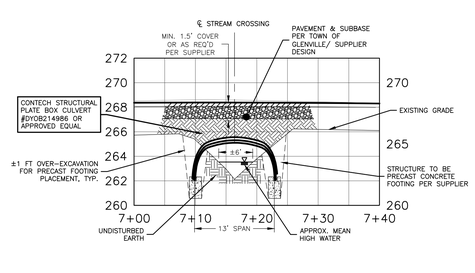


STREAM CROSSING DETAIL STA 7+17
SCALE: 1"=10'

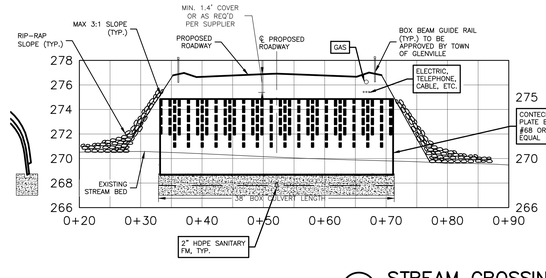


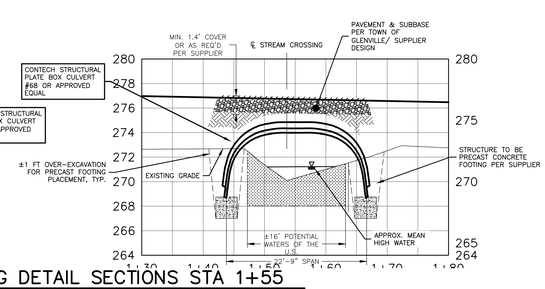
STREAM CROSSING DETAIL STA 1+55
SCALE: 1"=10'





STREAM CROSSING DETAIL SECTIONS STA 7+17
SCALE: HORIZ. 1"=10' VERT. 1"=2' (STREAM PROFILE)





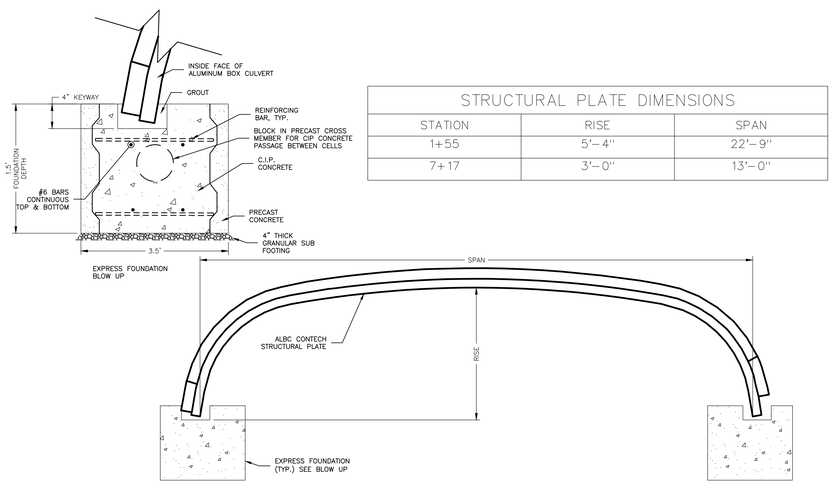
STREAM CROSSING DETAIL SECTIONS STA 1+55
SCALE: HORIZ. 1"=10' VERT. 1"=2' (STREAM PROFILE)

BOTTOMLESS CULVERT NOTES:

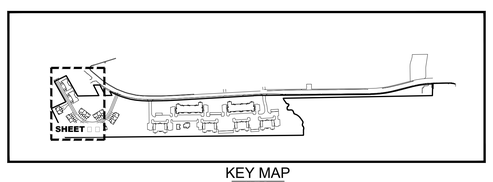
DETAILS SHOWN ON THIS PLAN ARE SCHEMATIC IN NATURE.
FINAL STRUCTURAL PLATE CULVERT DESIGN (INCLUDING FOUNDATION) SHALL BE PROVIDED BY SUPPLIER (BASED ON ACUTAL FIELD CONDITIONS) PRIOR TO CONSTRUCTION.

ALTERNATIVE BOTTOMLESS CULVERT DESIGNS MAY BE CONSIDERED (TO BE APPROVED BY THE TOWN OF GLENVILLE).

ALL BOTTOMLESS CULVERTS MUST BE DESIGNED FOR H-20 LOADING, MUST MAINTAIN A MINIMUM SPAN WIDTH AS SHOWN, AND MUST AVOID PROPOSED UTILITIES AS SHOWN.



STRUCTURAL PLATE DIMENSIONS		
STATION	RISE	SPAN
1+55	5'-4"	22'-9"
7+17	3'-0"	13'-0"



KEY MAP
N.T.S.

1 / W1 CONTECH STRUCTURAL PLATE
NOT TO SCALE

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP.
900 Route 146 Clifton Park, New York, 12065
(518) 373-1421
edpllp.com

PROPOSED SITE IMPROVEMENTS FOR
DUTCH MEADOWS RESIDENTIAL COMMUNITY
RBC GLENVILLE DEVELOPMENT, LLC
TAX MAP No. 30.-1-24.411
FEBRUARY 14, 2020

DUTCH MEADOWS LANE
TOWN OF SCHENECTADY
SCHENECTADY COUNTY, NEW YORK

DRAWN BY	NLZ
CHECKED BY	JCD
EDP PROJECT NUMBER	11578

REVISION	DATE	BY

SCALE: AS NOTED

NOT FOR CONSTRUCTION

SHEET TITLE: STREAM CROSSING DETAILS

SHEET: W1 of 29

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