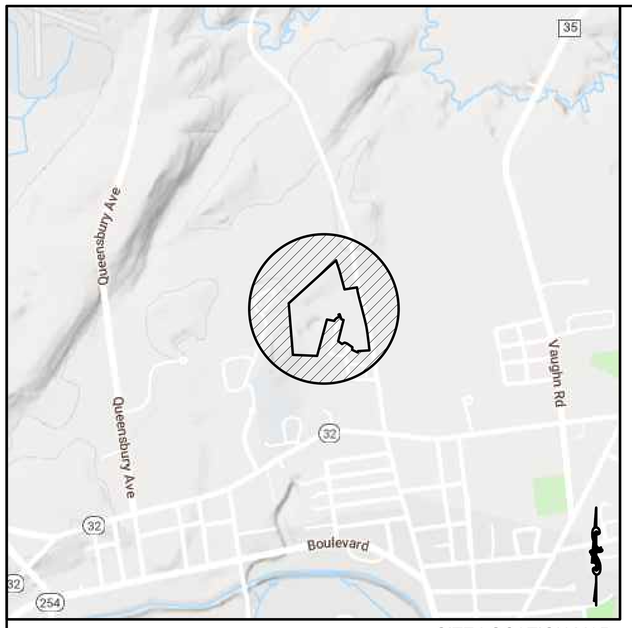

SITE LOCATION MAP
SCALE: 1" = 1,000'

PROPOSED APARTMENT COMMUNITY

THE QUARRY

APPLICANT/OWNER:
THE QUARRY, LLC

LOCATED AT DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

SITE STATISTICS:

ZONING DISTRICT	LDR 25
PARCEL AREA	68.63± ACRES
PROPOSED USE	APARTMENT COMMUNITY
BUILDINGS PROPOSED	9 BUILDINGS TOTAL 3 (24 UNIT) BUILDINGS 6 (30 UNIT) BUILDINGS
TOTAL UNITS PROPOSED	252 UNITS

BUILDING SETBACKS

	REQUIRED	PROPOSED
FRONT	40'	64'
SIDE 1	25'	38'
SIDE 2	25'	94'
REAR	50'	80'

PARKING

REQUIRED PARKING	2 SPACES/UNIT = 504 SPACES
PARKING PROVIDED	504 SPACES
PARKING RATIO	2.00 SPACES/ UNIT

SHEET LIST

SHEET #	SHEET TITLE
1	COVER SHEET
2	OVERALL SITE PLAN
3	EXISTING CONDITIONS
4	GRADING AND UTILTIY PLAN
5	GRADING AND UTILTIY PLAN
6	GRADING AND UTILTIY PLAN
7	GRADING AND UTILTIY PLAN
8	EROSION CONTROL PLAN
9	PHASING PLAN
10	PLANTING PLAN
11	ROAD PROFILE
12	SITE DETAILS
13	STORM DETAILS
14	WATER AND SEWER DETAILS

CONSTRUCTION NOTE:
THE CONSTRUCTION OF THE SANITARY SEWERS DEPICTED ON THESE PLANS SHALL BE UNDER THE DIRECT 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) DAYS FOLLOWING THE COMPLETION OF CONSTRUCTION THE ENGINEER SHALL CERTIFY TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND TO THE OWNER THAT THE CONSTRUCTED FACILITIES HAVE BEEN CONSTRUCTED UNDER THEIR 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 THE PLACING OF THE FACILITIES IN SERVICE.

APPROVED UNDER THE AUTHORITY OF THE TOWN OF KINGSBURY WATER DEPARTMENT

SIGNATURE

PRINTED

TOWN OF KINGSBURY PLANNING BOARD

WASHINGTON COUNTY SEWER DISTRICT

NYS DEPARTMENT OF HEALTH

RECORD OF WORK	DATE	BY

PLANS PREPARED BY :

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

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

TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC
DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	117170

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

REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER "LOCAL" COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE:
N.T.S.

NOT FOR CONSTRUCTION

SHEET TITLE:
COVER SHEET

SHEET:
1 of 14

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GRAPHIC SCALE

50 40 30 20 10 0 25 50 100 200

(IN FEET)
1 INCH = 50 FT.

RECORD NORTH AS PER MAP REFERENCE No.

DEAN RD.

NYS & ELPH. NGVD29 is VERTICAL DATUM

LANDS N/F OF LEGACY LAND HOLDINGS, LLC
BOOK 2297 OF DEEDS AT PAGE 31

MH (APPROX. LOCATION)
TF=481.72
INV(NE)=475.60
INV(SW)=475.50

MH (APPROX. LOCATION)
TF=482.60
INV(NE)=474.90
INV(SE)=474.80

GRAVEL EMERGENCY ACCESS ROAD

STORMWATER MANAGEMENT ACCESS ROAD

STORMWATER MANAGEMENT AREA FACILITY NOTIFICATION SIGN

STORMWATER MANAGEMENT AREA

WETLAND AREA B

WETLAND AREA A

PROPOSED 50' WIDE UTILITY EASEMENT TO BE CONVEYED TO TOWN OF KINGSBURY

QUARRY CIRCLE WAY

HANDICAP PARKING SPACES (2) WITH LOADING ISLE, CURB RAMP AND SIGNS (TYPICAL)

PARKING SPACE 18'X9' (TYPICAL)

CONCRETE CURB (TYP)

LANDS N/F OF CHARLES DOTY
BOOK 470 OF DEEDS AT PAGE 368

BUILDING 1 (30 UNITS)

BUILDING 2 (30 UNITS)

BUILDING 3 (30 UNITS)

BUILDING 4 (24 UNITS)

BUILDING 5 (24 UNITS)

BUILDING 6 (24 UNITS)

BUILDING 7 (30 UNITS)

BUILDING 8 (30 UNITS)

BUILDING 9 (30 UNITS)

R=62' R=38' R=5' R=34' R=30' R=15' 28' TYP 26' TYP 24' TYP 62' TYP 50' TYP

LANDS N/F OF NATIONAL GRID
BOOK 192 OF DEEDS AT PAGE 159

LANDS N/F OF DIX AVENUE PROPERTIES LLC
BOOK 901 OF DEEDS AT PAGE 296

NOTES:

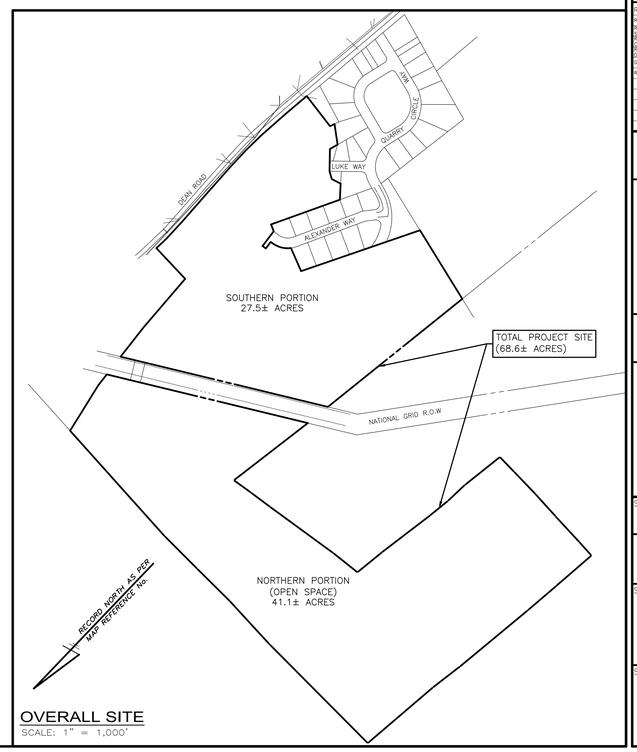
TOTAL NUMBER OF PARKING SPACES: 504

TOTAL NUMBER OF UNITS: 252

NUMBER OF PARKING SPACES PER UNIT: 2.00

LEGEND

- CURB RAMP — 5/12, 7/12
- HANDICAP PARKING — 4/12
- PARKING NUMBER
- SIGN
- CONCRETE SIDEWALK — 1/12
- HEAVY DUTY PAVEMENT — 2/12
- TOWN ROADWAY
- ASPHALT WING CURB
- CONCRETE CURB — 3/12



OVERALL SITE
SCALE: 1" = 1,000'

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
Saratoga Lake Clifton Park, New York • 12065
(518) 371-7621 www.edpllp.com

TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11772

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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER SUPERINTENDENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC STORMWATER REVIEWER COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: OVERALL SITE PLAN

SHEET: 2 of 14

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SOILS ANALYSIS

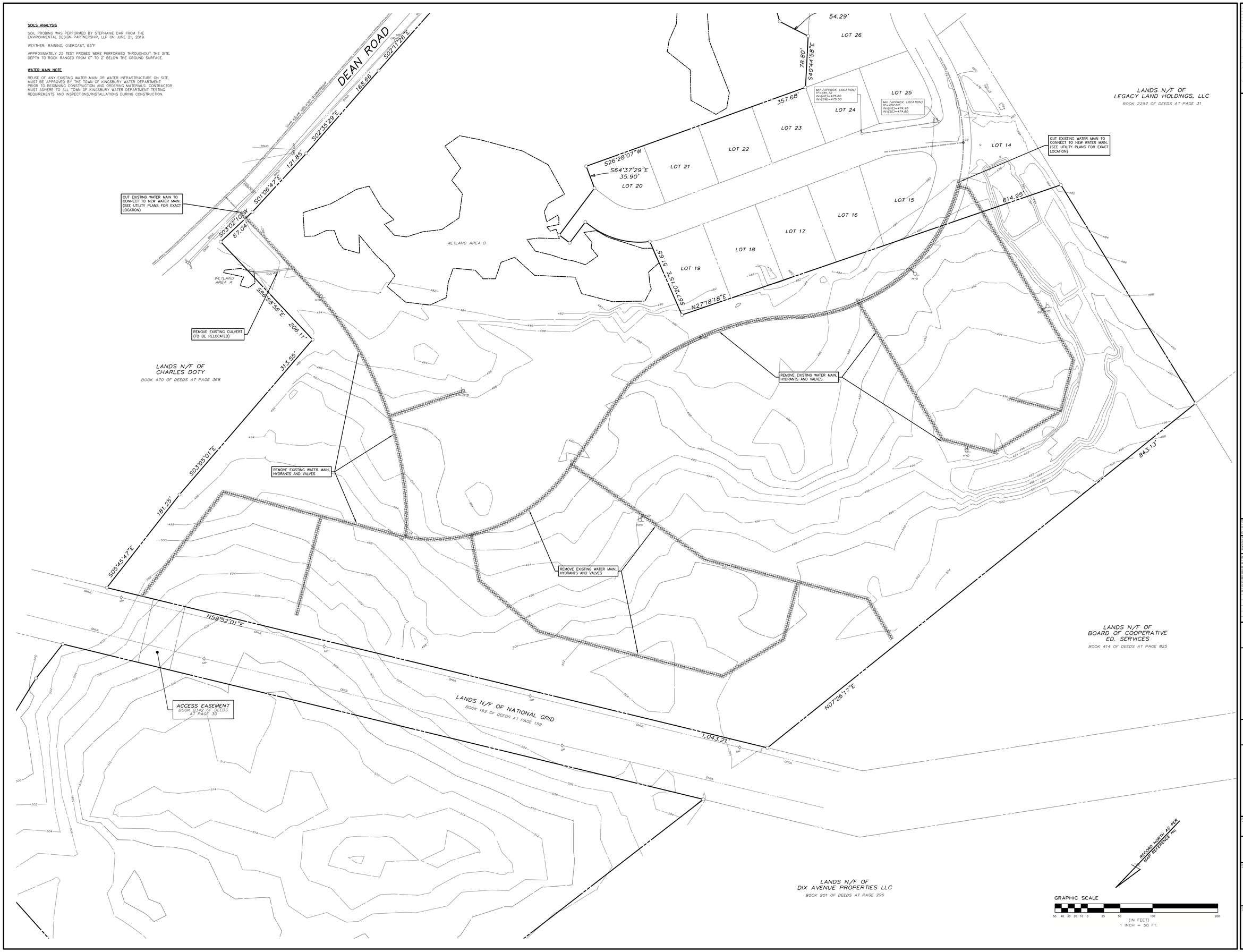
SOIL PROBING WAS PERFORMED BY STEPHANIE DAR FROM THE ENVIRONMENTAL DESIGN PARTNERSHIP, LLP ON JUNE 21, 2019.

WEATHER: RAINING, OVERCAST, 65°F

APPROXIMATELY 25 TEST PROBES WERE PERFORMED THROUGHOUT THE SITE. DEPTH TO ROCK RANGED FROM 0" TO 2' BELOW THE GROUND SURFACE.

WATER MAIN NOTE

REUSE OF ANY EXISTING WATER MAIN OR WATER INFRASTRUCTURE ON SITE MUST BE APPROVED BY THE TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS. CONTRACTOR MUST ADHERE TO ALL TOWN OF KINGSBURY WATER DEPARTMENT TESTING REQUIREMENTS AND INSPECTIONS/INSTALLATIONS DURING CONSTRUCTION.



ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
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TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11770

THE ALTERATION OF THESE DOCUMENTS IN ANY WAY BY ANYONE OTHER THAN THE ORIGINATOR OF THE DOCUMENTS OR COMPARABLE PROFESSIONAL (L.L.) ENGINEER FOR AN ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT IS A VIOLATION OF ARTICLE 145 AND 7209 OF THE LAWS OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: EXISTING CONDITIONS

SHEET: 3 of 14

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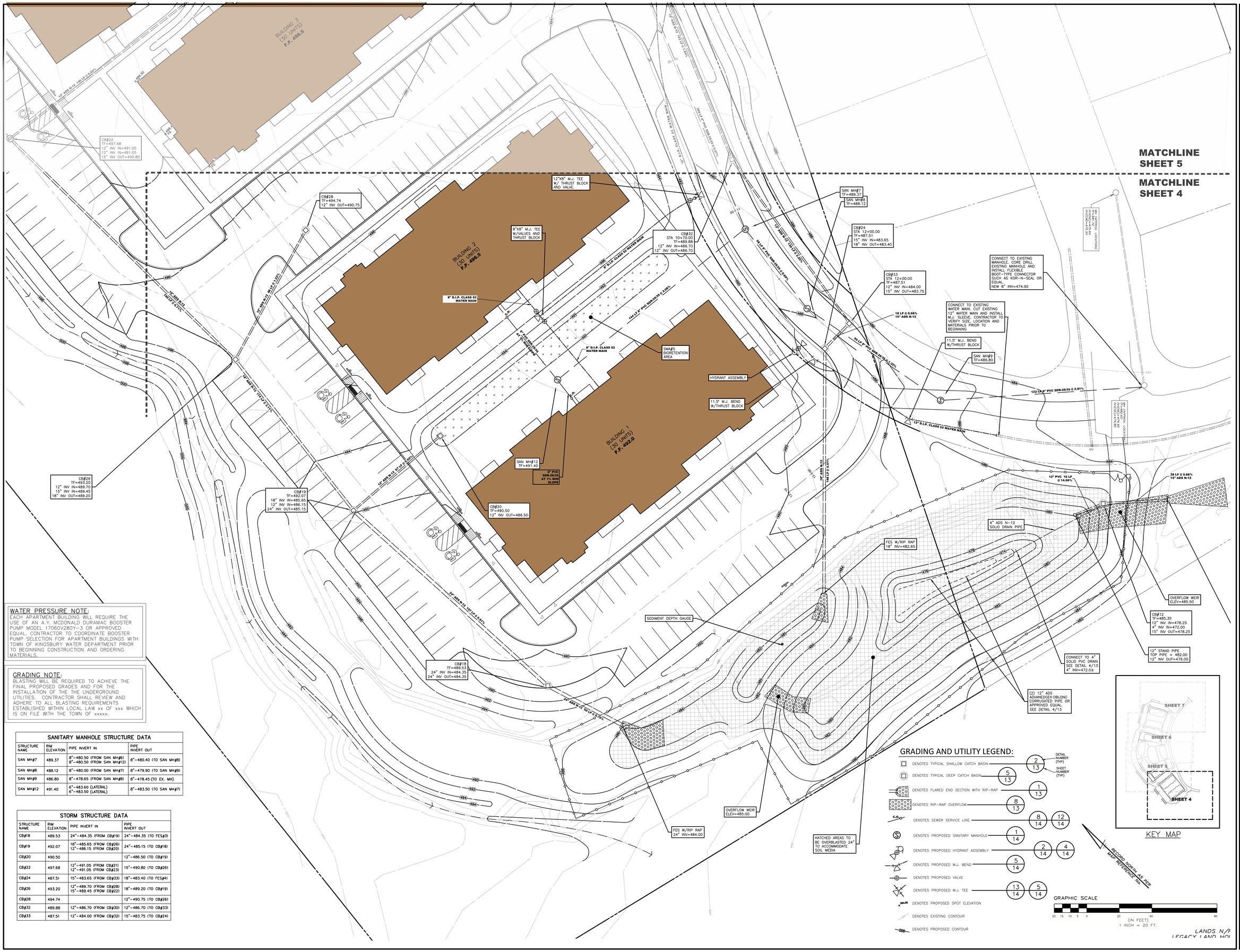

WATER PRESSURE NOTE:

EACH APARTMENT BUILDING WILL REQUIRE THE USE OF AN A.Y. MCDONALD DURAMAC BOOSTER PUMP MODEL 17060V280Y-3 OR APPROVED EQUAL. CONTRACTOR TO COORDINATE BOOSTER PUMP SELECTION FOR APARTMENT BUILDINGS WITH TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.

GRADING NOTE:

BLASTING WILL BE REQUIRED TO ACHIEVE THE FINAL PROPOSED GRADES AND FOR THE INSTALLATION OF THE THE UNDERGROUND UTILITIES. CONTRACTOR SHALL REVIEW AND ADHERE TO ALL BLASTING REQUIREMENTS ESTABLISHED WITHIN LOCAL LAW xx OF xxx WHICH IS ON FILE WITH THE TOWN OF xxxxx.

SANITARY MANHOLE STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
SAN MH#7	489.37	8"-480.50 (FROM SAN MH#6) 8"-480.50 (FROM SAN MH#12)	8"-480.40 (TO SAN MH#8)
SAN MH#8	488.12	8"-480.00 (FROM SAN MH#7)	8"-479.90 (TO SAN MH#9)
SAN MH#9	486.80	8"-478.65 (FROM SAN MH#8)	8"-478.45 (TO EX. MH)
SAN MH#12	491.40	6"-483.60 (LATERAL) 6"-483.50 (LATERAL)	8"-483.50 (TO SAN MH#7)

STORM STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
CB#18	489.53	24"-484.35 (FROM CB#19)	24"-484.35 (TO FES#3)
CB#19	492.07	18"-485.65 (FROM CB#26) 12"-486.15 (FROM CB#20)	24"-485.15 (TO CB#18)
CB#20	490.50		12"-486.50 (TO CB#19)
CB#22	497.68	12"-491.05 (FROM CB#21) 12"-491.05 (FROM CB#23)	15"-490.80 (TO CB#26)
CB#24	487.51	15"-483.65 (FROM CB#33)	18"-483.40 (TO FES#4)
CB#26	493.20	12"-489.70 (FROM CB#28) 15"-489.45 (FROM CB#22)	18"-489.20 (TO CB#19)
CB#28	494.74		12"-490.75 (TO CB#26)
CB#32	489.88	12"-486.70 (FROM CB#30)	12"-486.70 (TO CB#33)
CB#33	487.51	12"-484.00 (FROM CB#32)	15"-483.75 (TO CB#24)

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL SHALLOW CATCH BASIN — 2 / 13 (DETAIL NUMBER (TYP) / SHEET NUMBER (TYP))
- DENOTES TYPICAL DEEP CATCH BASIN — 5 / 13
- DENOTES FLARED END SECTION WITH RIP-RAP — 1 / 13
- DENOTES RIP-RAP OVERFLOW — 8 / 13
- DENOTES SEWER SERVICE LINE — 8 / 14, 12 / 14
- DENOTES PROPOSED SANITARY MANHOLE — 1 / 14
- DENOTES PROPOSED HYDRANT ASSEMBLY — 2 / 14, 4 / 14
- DENOTES PROPOSED M.J. BEND — 5 / 14
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE — 13 / 14, 5 / 14
- 384.50 DENOTES PROPOSED SPOT ELEVATION
- 484 DENOTES EXISTING CONTOUR
- 488 DENOTES PROPOSED CONTOUR

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
Main Office: 144 Clinton Park, New York, 12065
(518) 371-7621 www.edp-ny.com

TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11770

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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING AND UTILTIY PLAN

SHEET: 4 of 14

G:\WASHINGTON\KINGSBURY\Dean Road\JS Niess - Apartments\05-Civil\Detailed Plans\06_GPLN_NOAA5.dwg Feb 02, 2021 01:30:10PM

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL SHALLOW CATCH BASIN — DETAIL NUMBER (TYP) 2 / SHEET NUMBER (TYP) 13
- DENOTES TYPICAL DEEP CATCH BASIN — 5 / 13
- DENOTES FLARED END SECTION WITH RIP-RAP — 1 / 13
- DENOTES RIP-RAP OVERFLOW — 8 / 13
- DENOTES SEWER SERVICE LINE — 8 / 14, 12 / 14
- DENOTES PROPOSED SANITARY MANHOLE — 1 / 14
- DENOTES PROPOSED HYDRANT ASSEMBLY — 2 / 14, 4 / 14
- DENOTES PROPOSED M.J. BEND — 5 / 14
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE — 13 / 14, 5 / 14
- 364.50 DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- 248 DENOTES PROPOSED CONTOUR

GRADING NOTE:

BLASTING WILL BE REQUIRED TO ACHIEVE THE FINAL PROPOSED GRADES AND FOR THE INSTALLATION OF THE THE UNDERGROUND UTILITIES. CONTRACTOR SHALL REVIEW AND ADHERE TO ALL BLASTING REQUIREMENTS ESTABLISHED WITHIN LOCAL LAW xx OF xxx WHICH IS ON FILE WITH THE TOWN OF xxxxx.

WATER PRESSURE NOTE:

EACH APARTMENT BUILDING WILL REQUIRE THE USE OF AN A.Y. MCDONALD DURAMAC BOOSTER PUMP MODEL 17060V280Y-3 OR APPROVED EQUAL. CONTRACTOR TO COORDINATE BOOSTER PUMP SELECTION FOR APARTMENT BUILDINGS WITH TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.

SANITARY MANHOLE STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
SAN MH#4	496.74	8"-483.25 (FROM SAN MH#3) 8"-483.25 (FROM SN MH#10)	8"-483.15 (TO SAN MH#5)
SAN MH#5	495.94	8"-482.80 (FROM SAN MH#4) 6"-486.50 (LATERAL)	8"-482.70 (TO SAN MH#6)
SAN MH#6	494.56	8"-482.25 (FROM SAN MH#5) 8"-482.25 (FROM SAN MH#11)	8"-482.15 (TO SAN MH#7)
SAN MH#7	489.37	8"-480.50 (FROM SAN MH#6) 8"-480.50 (FROM SAN MH#12)	8"-480.40 (TO SAN MH#8)
SAN MH#11	497.25	6"-488.70 (LATERAL) 6"-488.70 (LATERAL)	8"-488.50 (TO SAN MH#6)
SAN MH#12	491.40	6"-483.60 (LATERAL) 6"-483.50 (LATERAL)	8"-483.50 (TO SAN MH#7)
SN MH#10	496.80	6"-489.45 (LATERAL) 6"-489.45 (LATERAL)	8"-489.25 (TO SAN MH#4)

STORM STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
CB#21	496.54		12"-493.10 (TO CB#22)
CB#22	497.68	12"-491.05 (FROM CB#21) 12"-491.05 (FROM CB#23)	15"-490.80 (TO CB#26)
CB#23	495.99	12"-491.75 (FROM CB#25)	12"-491.75 (TO CB#22)
CB#25	494.50		12"-492.25 (TO CB#23)
CB#26	493.20	12"-489.70 (FROM CB#28) 15"-489.45 (FROM CB#22)	18"-489.20 (TO CB#19)
CB#28	494.74		12"-490.75 (TO CB#26)
CB#29	493.02	12"-489.65 (FROM CB#31)	12"-489.65 (TO CB#30)
CB#30	492.91	12"-489.50 (FROM CB#29)	12"-489.50 (TO CB#32)
CB#31	494.60		12"-490.60 (TO CB#29)
CB#32	489.88	12"-486.70 (FROM CB#30)	12"-486.70 (TO CB#33)

KEY MAP

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
Neil Brown Ltd Clifton Park, New York 12065
(518) 371-7621 www.edp-pllp.com

TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR THE QUARRY

THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11770

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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDOT COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING AND UTILTIY PLAN

SHEET: 5 of 14

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GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL SHALLOW CATCH BASIN (DETAIL NUMBER (TYP) 2 / SHEET NUMBER (TYP) 13)
- DENOTES TYPICAL DEEP CATCH BASIN (5 / 13)
- DENOTES FLARED END SECTION WITH RIP-RAP (1 / 13)
- DENOTES RIP-RAP OVERFLOW (8 / 13)
- DENOTES SEWER SERVICE LINE (8 / 14, 12 / 14)
- DENOTES PROPOSED SANITARY MANHOLE (1 / 14)
- DENOTES PROPOSED HYDRANT ASSEMBLY (2 / 14, 4 / 14)
- DENOTES PROPOSED M.J. BEND (5 / 14)
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE (13 / 14, 5 / 14)
- 394.50 DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- 498 DENOTES PROPOSED CONTOUR

SANITARY MANHOLE STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
SAN MH#1	492.25	8"-484.60 (FROM SAN MH#2)	8"-484.50 (TO SAN MH#3)
SAN MH#2	493.00	6"-486.00 (LATERAL) 6"-486.00 (LATERAL)	8"-485.90 (TO SAN MH#1)
SAN MH#3	495.35	8"-483.90 (FROM SAN MH#1)	8"-483.80 (TO SAN MH#4)
SAN MH#4	496.74	8"-483.25 (FROM SAN MH#3) 8"-483.25 (FROM SN MH#10)	8"-483.15 (TO SAN MH#5)
SAN MH#6	494.56	8"-482.25 (FROM SAN MH#5) 8"-482.25 (FROM SAN MH#11)	8"-482.15 (TO SAN MH#7)
SN MH#10	496.80	6"-489.45 (LATERAL) 6"-489.45 (LATERAL)	8"-489.25 (TO SAN MH#4)

STORM STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
CB#3	490.58	24"-484.90 (FROM CB#11) 18"-485.40 (FROM CB#4)	24"-484.90 (TO FES#8)
CB#8	491.50		12"-488.80 (TO CB#7)
CB#10	493.22		12"-489.75 (TO CB#11)
CB#11	493.22	18"-488.10 (FROM CB#14) 12"-488.60 (FROM CB#10)	24"-487.60 (TO CB#3)
CB#13	495.80		12"-491.80 (TO CB#14)
CB#14	495.80	18"-489.25 (FROM CB#15) 12"-489.75 (FROM CB#13)	18"-489.25 (TO CB#11)
CB#15	494.95	15"-490.65 (FROM CB#16)	18"-490.40 (TO CB#14)
CB#16	496.03	15"-491.85 (FROM CB#17)	15"-491.85 (TO CB#15)
CB#25	494.50		12"-492.25 (TO CB#23)

GRADING NOTE:

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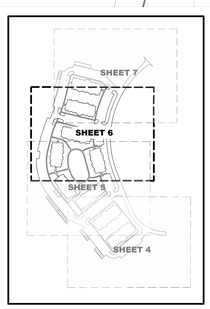
WATER PRESSURE NOTE:

EACH APARTMENT BUILDING WILL REQUIRE THE USE OF AN A.Y. MCDONALD DURAMAC BOOSTER PUMP MODEL 17060V2BDY-3 OR APPROVED EQUAL. CONTRACTOR TO COORDINATE BOOSTER PUMP SELECTION FOR APARTMENT BUILDINGS WITH TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.



KEY MAP

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
Nelli Brown Ltd Clifton Park, New York 12065
(518) 371-7621 www.edp-pc.com

TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11770

THE ALTERATION OF THESE DOCUMENTS IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF THE PROFESSIONAL ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT OR SURVEYOR IN ACCORDANCE WITH SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "E" MISDEMEANOR.

REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER SUPERINTENDENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING AND UTILTIY PLAN

SHEET: 6 of 14

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SANITARY MANHOLE STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
SAN MH#1	492.25	8"-484.60 (FROM SAN MH#2)	8"-484.50 (TO SAN MH#3)
SAN MH#2	493.00	6"-486.00 (TERMINAL) 6"-486.00 (LATERAL)	8"-485.90 (TO SAN MH#1)
SAN MH#3	495.35	8"-483.90 (FROM SAN MH#1)	8"-483.80 (TO SAN MH#4)

STORM STRUCTURE DATA

STRUCTURE NAME	RIM ELEVATION	PIPE INVERT IN	PIPE INVERT OUT
CB#1	486.42	12"-482.40 (FROM CB#2)	12"-482.40 (TO FES#1)
CB#2	486.42		12"-482.50 (TO CB#1)
CB#3	490.58	24"-484.90 (FROM CB#11) 18"-485.40 (FROM CB#4)	24"-484.90 (TO FES#8)
CB#4	491.76	18"-485.75 (FROM CB#5)	18"-485.75 (TO CB#3)
CB#5	491.25	18"-486.65 (FROM CB#6)	18"-486.65 (TO CB#4)
CB#6	493.01	15"-487.55 (FROM CB#7)	18"-487.30 (TO CB#5)
CB#7	491.83	12"-488.35 (FROM CB#8)	15"-488.10 (TO CB#6)
CB#8	491.50		12"-488.80 (TO CB#7)
CB#10	493.22		12"-489.75 (TO CB#11)
CB#11	493.22	18"-488.10 (FROM CB#14) 12"-488.60 (FROM CB#10)	24"-487.60 (TO CB#3)
CB#14	495.80	18"-489.25 (FROM CB#15) 12"-489.75 (FROM CB#13)	18"-489.25 (TO CB#11)
CB#15	494.95	15"-490.65 (FROM CB#16)	18"-490.40 (TO CB#14)
CB#16	496.03	15"-491.85 (FROM CB#17)	15"-491.85 (TO CB#15)

GRADING AND UTILITY LEGEND:

- DENOTES TYPICAL SHALLOW CATCH BASIN — 2 / 13
- DENOTES TYPICAL DEEP CATCH BASIN — 5 / 13
- DENOTES FLARED END SECTION WITH RIP-RAP — 1 / 13
- DENOTES RIP-RAP OVERFLOW — 8 / 13
- DENOTES SEWER SERVICE LINE — 8 / 14, 12 / 14
- DENOTES PROPOSED SANITARY MANHOLE — 1 / 14
- DENOTES PROPOSED HYDRANT ASSEMBLY — 2 / 14, 4 / 14
- DENOTES PROPOSED M.J. BEND — 5 / 14
- DENOTES PROPOSED VALVE
- DENOTES PROPOSED M.J. TEE — 13 / 14, 5 / 14
- DENOTES PROPOSED SPOT ELEVATION
- DENOTES EXISTING CONTOUR
- DENOTES PROPOSED CONTOUR

DETAIL NUMBER (TYP) / SHEET NUMBER (TYP)

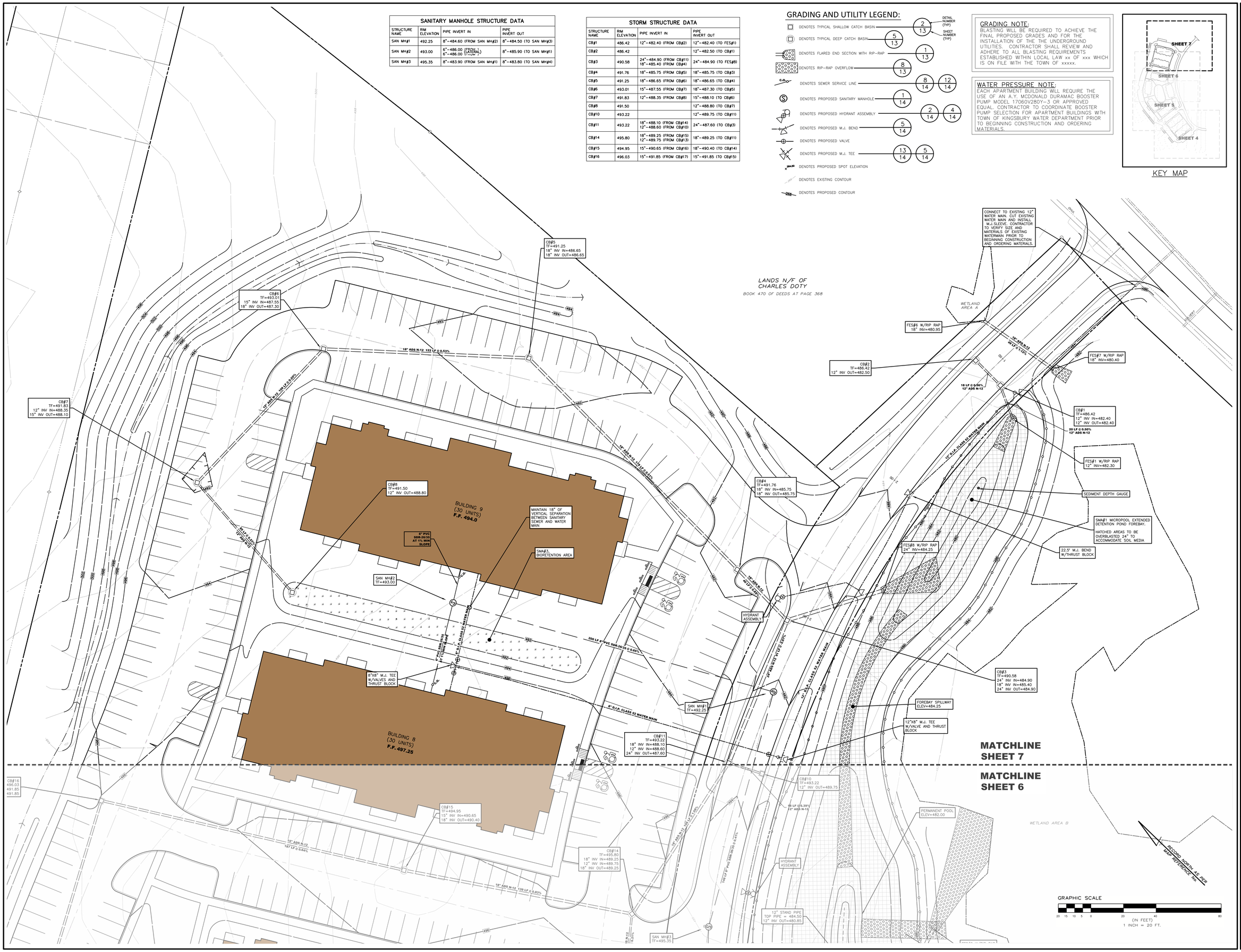
GRADING NOTE:

BLASTING WILL BE REQUIRED TO ACHIEVE THE FINAL PROPOSED GRADES AND FOR THE INSTALLATION OF THE THE UNDERGROUND UTILITIES. CONTRACTOR SHALL REVIEW AND ADHERE TO ALL BLASTING REQUIREMENTS ESTABLISHED WITHIN LOCAL LAW xx OF xxx WHICH IS ON FILE WITH THE TOWN OF xxxxx.

WATER PRESSURE NOTE:

EACH APARTMENT BUILDING WILL REQUIRE THE USE OF AN A.Y. MCDONALD DURAMAC BOOSTER PUMP MODEL 17060V280Y-3 OR APPROVED EQUAL. CONTRACTOR TO COORDINATE BOOSTER PUMP SELECTION FOR APARTMENT BUILDINGS WITH TOWN OF KINGSBURY WATER DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.

KEY MAP



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PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
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DRAWN BY	STD
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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER SUPERINTENDENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC WORKSHOP	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
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SCALE: 1" = 20'

NOT FOR CONSTRUCTION

SHEET TITLE: GRADING AND UTILTIY PLAN

SHEET: 7 of 14

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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.

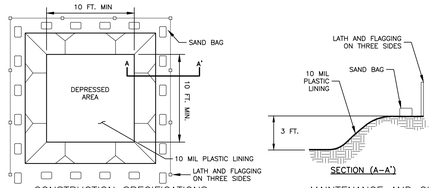
ADDITIONAL EROSION CONTROL AND GRADING NOTES:

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 NECESSARY 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, COIR 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 MANUFACTERER'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.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

A) INSTALL TEMPORARY CONSTRUCTION FENCE
B) CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN.
C) INSTALL PERIMETER SILT FENCES AND TEMPORARY SEDIMENT BASIN IN THE LOCATIONS SHOWN AND OTHER LOCATIONS AS NECESSARY TO STABILIZE THE SITE.
D) 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.
E) FREQUENT WATERING OF THE EXCAVATION AND FILL AREAS SHALL BE DONE TO MINIMIZE WIND EROSION.
F) COMMENCE SITE GRADING AND CONSTRUCTION.
G) DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
H) INSTALL PROTECTIVE SILT FENCES / BARRIERS AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
I) FINALIZE PAVEMENT SUBGRADE PREPARATION.
J) 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.
K) REMOVE SILT FENCES / STRAW BARRIERS AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
L) INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
M) CARRY OUT FINAL GRADING AND SEEDING AND PLANTING
N) REMOVE SILT FENCING / STRAW BARRIERS ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.
O) REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).

DISTURBANCE NOTE:
CONTRACTOR TO USE NECESSARY CONSTRUCTION METHODS AND SCHEDULING TO ENSURE THAT THE TOTAL DISTURBANCE ON THE SITE IS LIMITED TO LESS THAN 5 ACRES AT ANY ONE TIME.



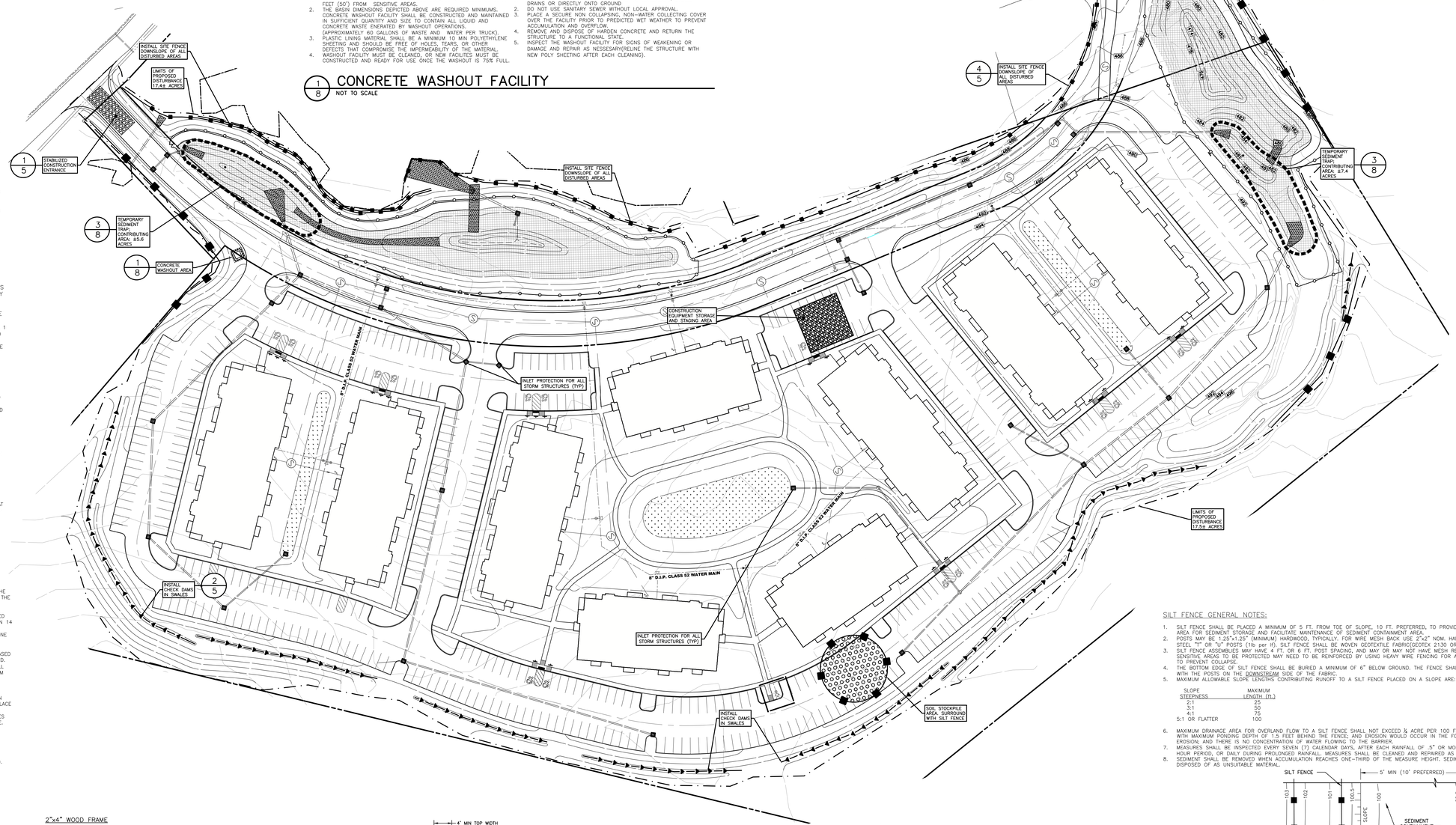
CONSTRUCTION SPECIFICATIONS

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 ENERATED 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 FACILITIES 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(RELINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).

1/8 CONCRETE WASHOUT FACILITY
NOT TO SCALE



EROSION CONTROL LEGEND:

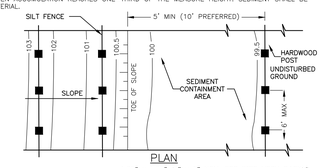
- DENOTES PROPOSED SILT FENCE
- DENOTES CATCH BASIN SEDIMENT BARRIER
- DENOTES STABILIZED CONSTRUCTION ENTRANCE
- DENOTES LIMITS OF CLEARING AND GRADING
- DENOTES PROPOSED RIP-RAP ARMOR
- DENOTES PROPOSED STONE CHECK DAM

SILT FENCE GENERAL NOTES:

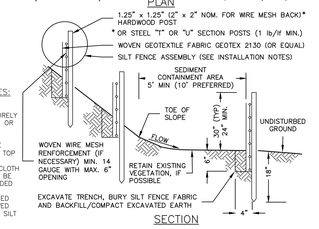
1. SILT FENCE SHALL BE PLACED A MINIMUM OF 5 FT. FROM TOE OF SLOPE, 10 FT. PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
2. POSTS MAY BE 1.25"X1.25" (MINIMUM) HARDWOOD, TYPICALLY, FOR WIRE MESH BACK USE 2"x2" NOM. HARDWOOD, OR STEEL "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 ½ 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.



PLAN



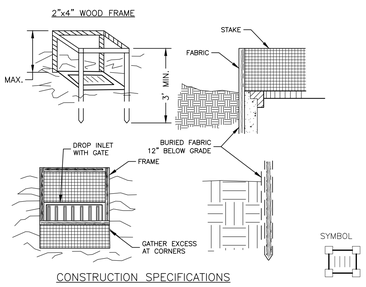
SECTION

SILT FENCE INSTALLATION NOTES:

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

5/8 SILT FENCE
NOT TO SCALE

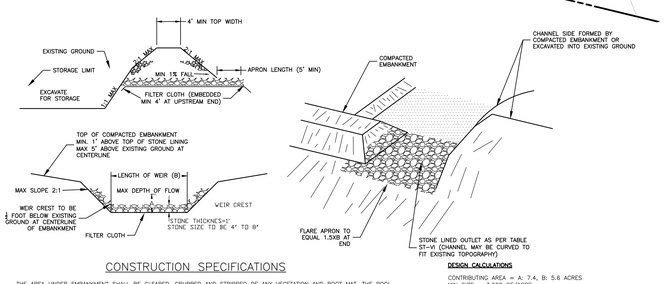
GRAPHIC SCALE
50 40 30 20 10 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.



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.

2/8 FILTER FABRIC INLET PROTECTION
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

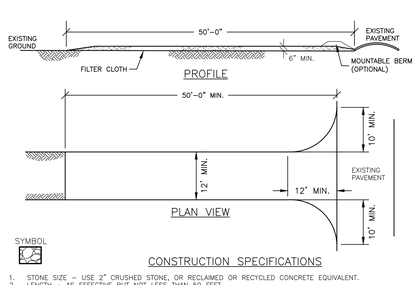
1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. 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 EXTEND UP THE SIDES OF THE CHANNEL TO THE ELEVATION OF STONE TO PROVIDE A FILTERING EFFECT.
7. STONE USED ON THE OUTLET CHANNEL SHALL BE 4 TO 8 INCH RIP-RAP TO PROVIDE A FILTERING EFFECT. A LAYER OF FILTER CLOTH SHALL BE EMBEDDED 1 FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6 INCHES INTO EXISTING GROUND AT ENTRANCE OUTLET CHANNEL.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ½ THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A 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 AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED
12. DRAINAGE FOR THIS AREA IS LIMITED TO 15 ACRES OR LESS

DESIGN CALCULATIONS

CONTRIBUTING AREA = A: 7.4, B: 5.6 ACRES
MIN SIZE = 3,600 CF/ACRE
MIN SIZE = A: **26,640 CF, B: 20,160 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

3/8 STONE OUTLET SEDIMENT TRAP
NOT TO SCALE



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.
7. 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.
8. 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.

4/8 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

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TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11770

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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER NYSEEC COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: EROSION CONTROL PLAN

SHEET: 8 of 14

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PHASE SUMMARY			
PHASE I.D.	# OF BULDINGS	# OF UNITS	PARKING SPACES
1	3	90	214
2	4	102	166
3	2	60	166
TOTAL	9	252	504

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DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

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REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER SUPERINTENDENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: 1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE: PHASING PLAN

SHEET: 9 of 14

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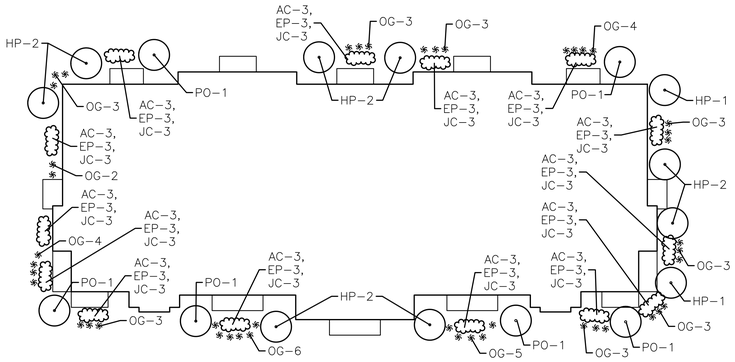
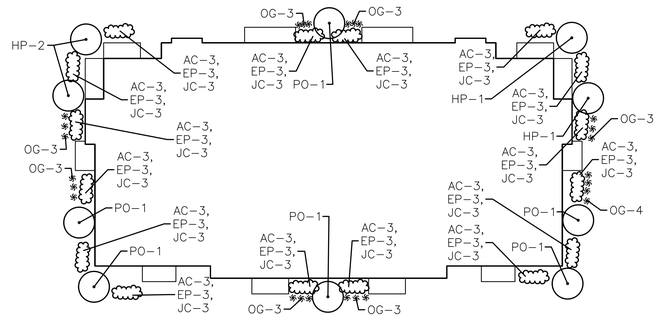
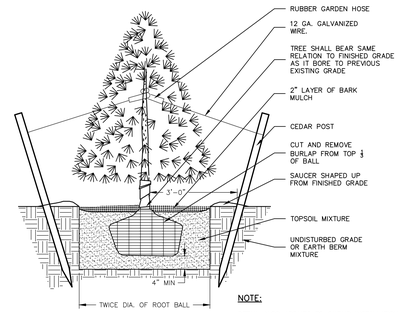


1/10 TYPICAL FOUNDATION PLANTING DETAIL – BUILDING TYPE 1
NOT TO SCALE



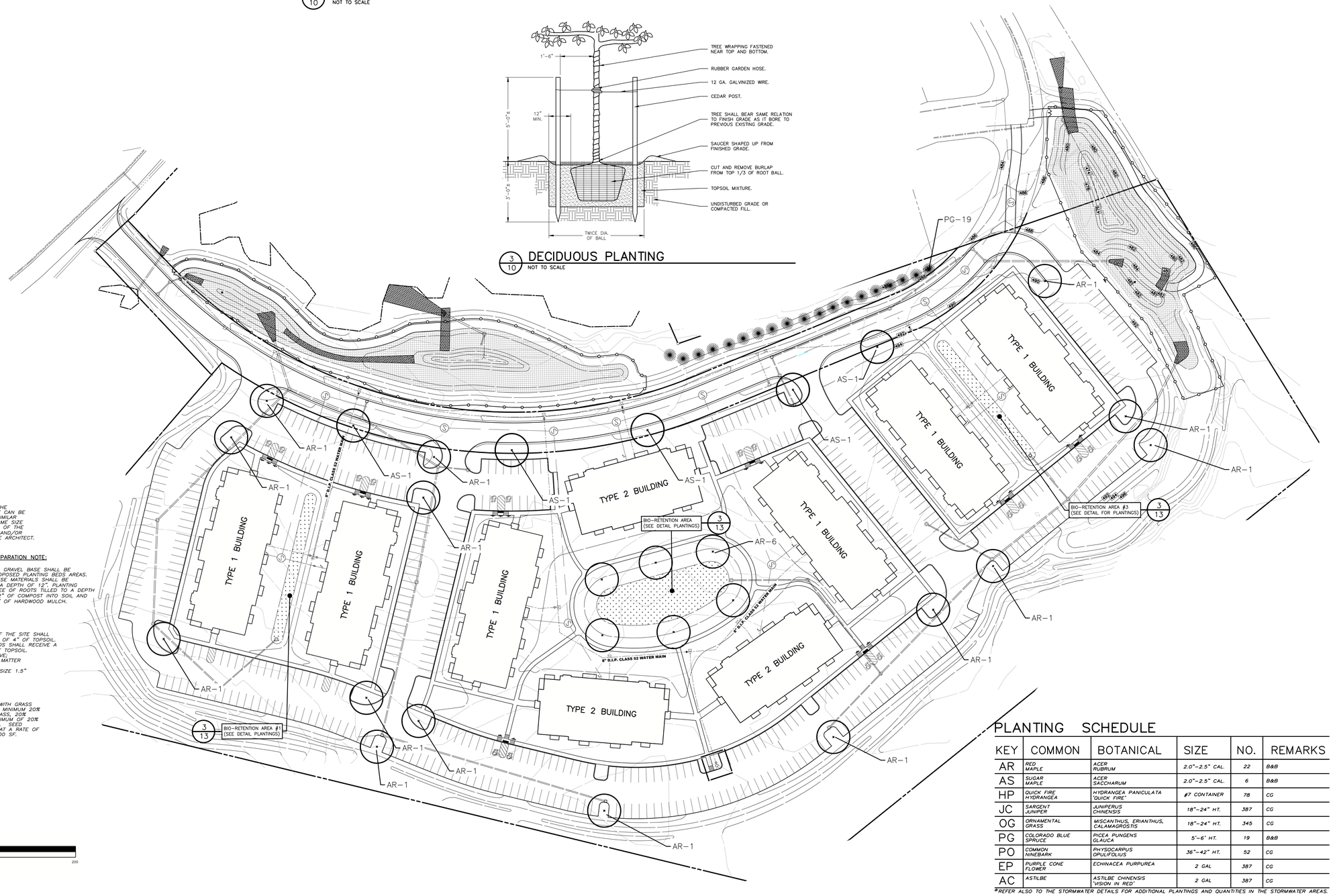
2/10 TYPICAL FOUNDATION PLANTING DETAIL – BUILDING TYPE 2
NOT TO SCALE

3/10 DECIDUOUS PLANTING
NOT TO SCALE



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

4/10 CONIFEROUS 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 LANDSCAPED, PAVED, SHALL BE TOPSOILED, SEEDED, AND MULCHED . (MULCH – STRAW, HYDROSEED MIX, OR BIODEGRADABLE NETTING.) MIXTURES TO BE APPLIED SHALL BE DETERMINED BY OWNER'S REPRESENTATIVES. TOPSOIL TO BE 4" MINIMUM.
3. EXISTING VEGETATION SHALL REMAIN UNDISTURBED WITHIN ALL AREAS OF SITE WHICH DO NOT REQUIRE GRADING.
4. ALL PLANTING BEDS TO RECEIVE 3" MINIMUM BARK MULCH WITH FILTER FABRIC WEED CONTROL OR EQUAL.
5. THIS PLAN IS FOR PLANTING PURPOSES ONLY. REFER TO SITE PLAN FOR DETAILED GRADING AND UTILITY INFORMATION.
6. GUARANTEE:
   A. FOR A PERIOD OF TWELVE MONTHS FROM THE DATE THAT THE WORK UNDER CONTRACT IS CERTIFIED AS COMPLETE, THE CONTRACTOR SHALL:

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

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

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

PLANTING NOTE:

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

PLANTING BED PREPARATION NOTE:

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

TOPSOIL NOTE:

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

LAWN SEED MIX:

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

RECORD NORTH AS PER MAP REFERENCE #16

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

PLANTING SCHEDULE

KEY	COMMON	BOTANICAL	SIZE	NO.	REMARKS
AR	RED MAPLE	ACER RUBRUM	2.0"–2.5" CAL.	22	B&B
AS	SUGAR MAPLE	ACER SACCHARUM	2.0"–2.5" CAL.	6	B&B
HP	QUICK FIRE HYDRANGEA	HYDRANGEA PANICULATA 'QUICK FIRE'	#7 CONTAINER	78	CG
JC	SARGENT JUNIPER	JUNIPERUS CHINENSIS	18"–24" HT.	387	CG
OG	ORNAMENTAL GRASS	MISCANTHUS, ERIANTHUS, CALAMAGROSTIS	18"–24" HT.	345	CG
PG	COLORADO BLUE SPRUCE	PICEA PUNGENS GLAUCA	5'–6' HT.	19	B&B
PO	COMMON NINEBARK	PHYSOCARPUS OPULIFOLIUS	36"–42" HT.	52	CG
EP	PURPLE CONE FLOWER	ECHINACEA PURPUREA	2 GAL	387	CG
AC	ASTILBE	ASTILBE CHINENSIS 'VISION IN RED'	2 GAL	387	CG

*REFER ALSO TO THE STORMWATER DETAILS FOR ADDITIONAL PLANTINGS AND QUANTITIES IN THE STORMWATER AREAS.

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
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PROPOSED APARTMENT COMMUNITY FOR THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER SUPERINTENDENT COMMENTS	8/13/19	STD
REVISIONS PER NYSDEC STORMWATER COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE:
1" = 50'

NOT FOR CONSTRUCTION

SHEET TITLE:
PLANTING PLAN

SHEET:
10 of 14

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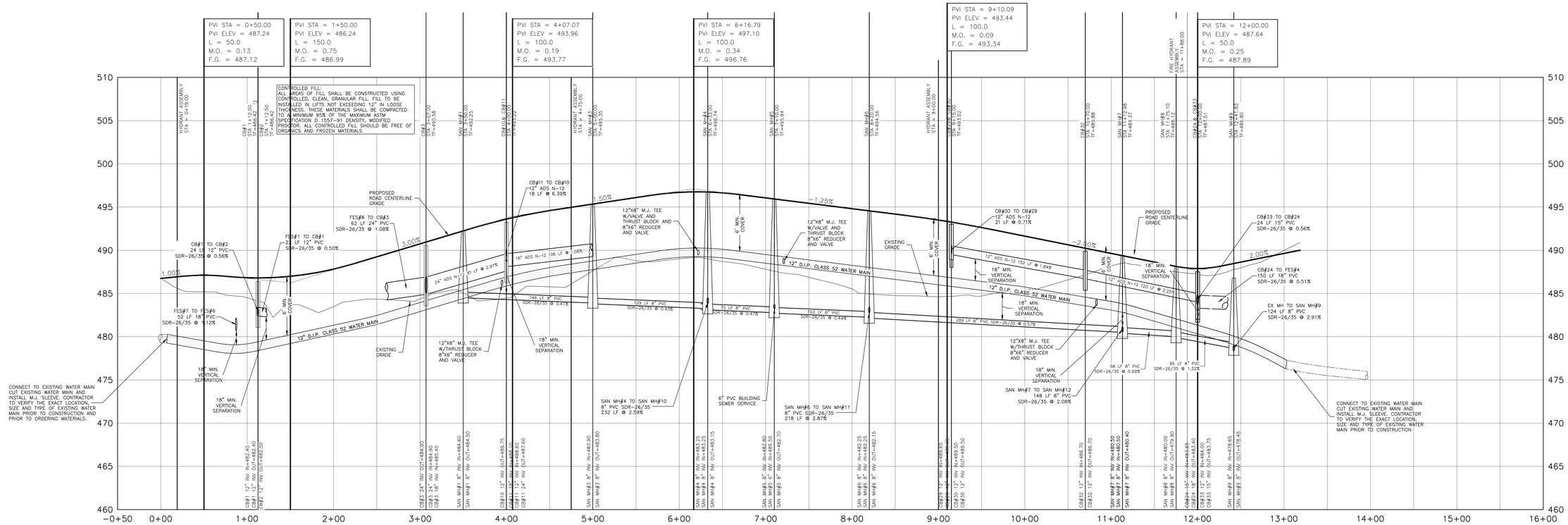
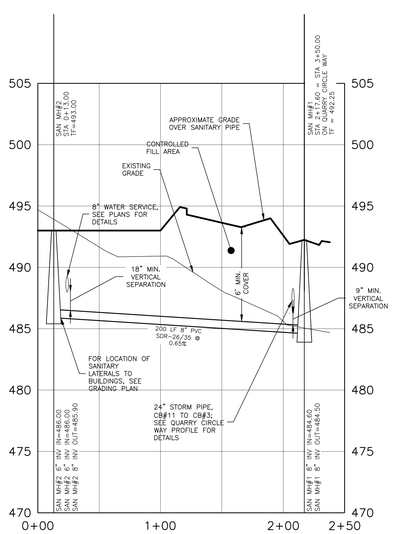


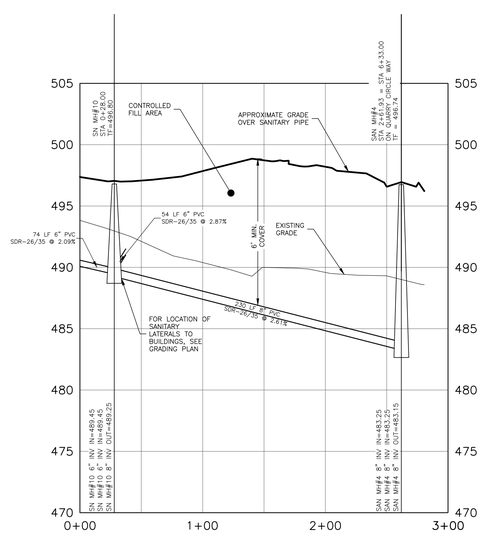
QUARRY CIRCLE WAY PROFILE

SCALE: HORIZ 1"=50'
VERT 1"=5'



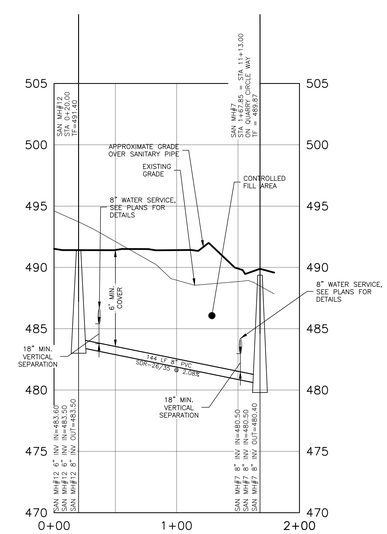
SAN MH#1 TO SAN MH#2

SCALE: HORIZ 1"=50'
VERT 1"=5'



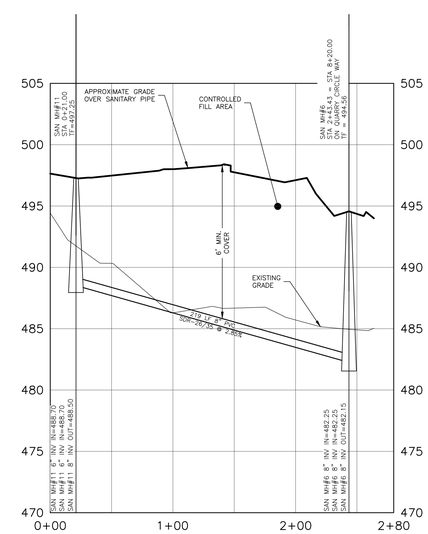
SAN MH #10 TO SAN MH #4

SCALE: HORIZ 1"=50'
VERT 1"=5'



SAN MH#12 TO SAN MH#7

SCALE: HORIZ 1"=50'
VERT 1"=5'



SAN MH#11 TO SAN MH#6

SCALE: HORIZ 1"=50'
VERT 1"=5'

GRAPHIC SCALE

50 40 30 20 10 0 25 50 100 200

(IN FEET)
1 INCH = 50 FT.

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
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DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR
THE QUARRY
THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
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REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER TOWN ATTORNEY COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: AS SHOWN

NOT FOR CONSTRUCTION

SHEET TITLE: ROAD PROFILE

SHEET: 11 of 14

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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 PRECAUTIONS 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 TRAVEL.

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 WHICH 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 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 230-3.10, EMBANKMENTS. COMPACTION AND LIFT THICKNESS SHALL BE IN ACCORDANCE WITH NYSDOT 230-3.12.

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 230-2.02B., SELECT BARROW 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 TEH ENGINEER, PRIOR TO PLACEMENT OF SUBBASE MATERIALS, BOTH EMBANKMENT AND CUT AREAS, IN ACCORDANCE WITH NYSDOT 203-3.13& 203-3.14.

SPECIFICATIONS FOR SITE LIGHTING ARE PER 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 JAMPING 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 C1244-93 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.

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: C600-10, 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: C600-10 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

POTABLE WATER SERVICE TUBING TO BE:
- COMMERCIAL SERVICE ≥ 3" DIA.

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.

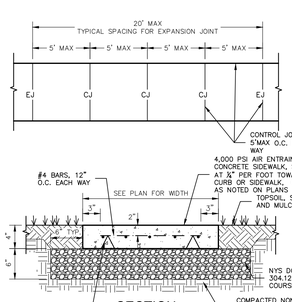
THE INFORMATION REPRESENTED WITHIN THESE DOCUMENTS DOES NOT IMPLY ANY CONTRACT WITH, OR OBLIGATION FOR, PERFORMING ANY OR ALL TOWN, COUNTY, OR STATE REQUIRED INSPECTIONS DURING THE COURSE OF CONSTRUCTION OR PURSUANT TO OBTAINING CERTIFICATE OF OCCUPANCY. SUCH INSPECTION SERVICES, IF PERFORMED BY THIS 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 MORE THEY IN A POSITION TO CONTROL THE PROJECT THROUGH STAKEOUT AND INSPECTION.

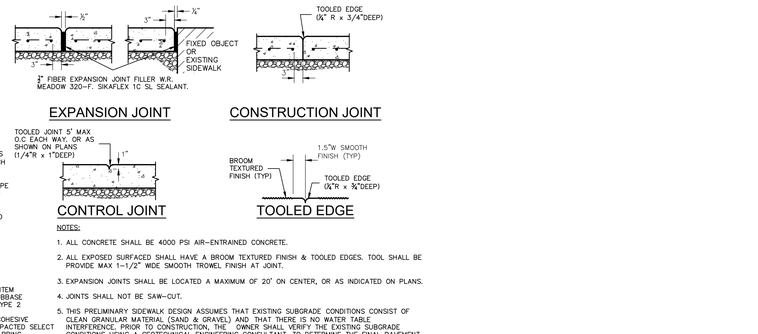
CLAIMS MADE AGAINST CONSULTANT FOR SURVEY STAKEOUT ERRORS WILL BE HONORED ONLY IF CONSULTANT IS NOTIFIED FOR VERIFICATION OF THE ERROR IMMEDIATELY UPON DISCOVERY AND BEFORE ANY CONTROL STAKES ARE DISTURBED. IF, AFTER VERIFICATION, IT IS DETERMINED THAT NO STAKEOUT ERROR OCCURRED, THE CLIENT SHALL REIMBURSE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

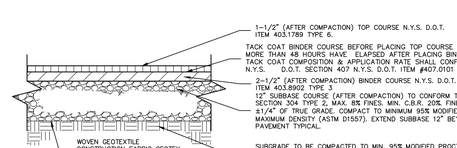


1/12 CONCRETE SIDEWALK
NOT TO SCALE



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

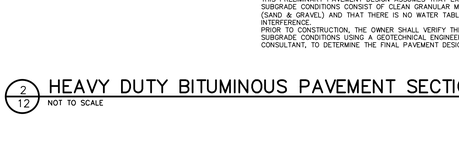
2/12 HEAVY DUTY BITUMINOUS PAVEMENT SECTION
NOT TO SCALE



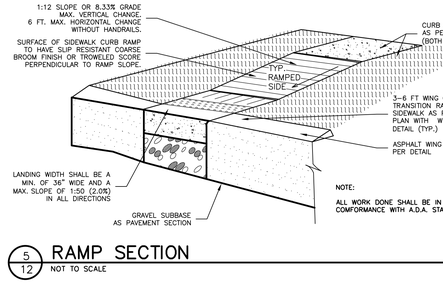
SUBGRADE TO BE COMPACTED TO MIN. 95% MODIFIED PROCTOR MAX (ASTM D1557). DENSITY PROOF ROLLED (MIN. 10 TON STATIC). ALL UNSTABLE AREAS SHALL BE EXCAVATED AND REPLACED WITH SUBBASE MATERIAL. FINE GRADE TO ±1/2".

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.

5/12 RAMP SECTION
NOT TO SCALE

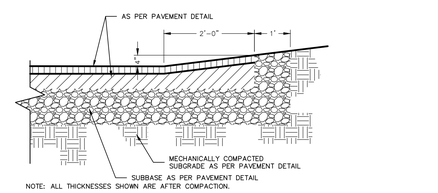


4/12 PARKING STRIPING AND DIMENSIONING
NOT TO SCALE



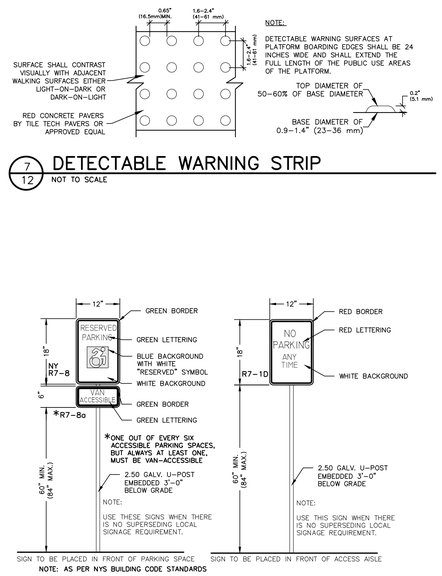
NOTE:
ALL WORK DONE SHALL BE IN COMFORMANCE WITH A.D.A. STANDARDS.

6/12 ASPHALT WING CURB
NOT TO SCALE



NOTE: ALL THICKNESSES SHOWN ARE AFTER COMPACTION.

7/12 DETECTABLE WARNING STRIP
NOT TO SCALE



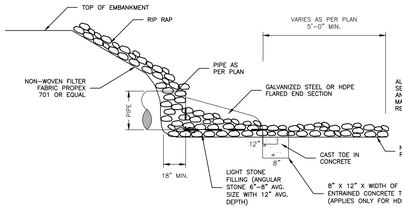
NOTE: AS PER NYS BUILDING CODE STANDAROS

8/12 A.D.A. ACCESSBILE PARKING SIGNAGE
NOT TO SCALE

ACCESSIBILITY NOTES:

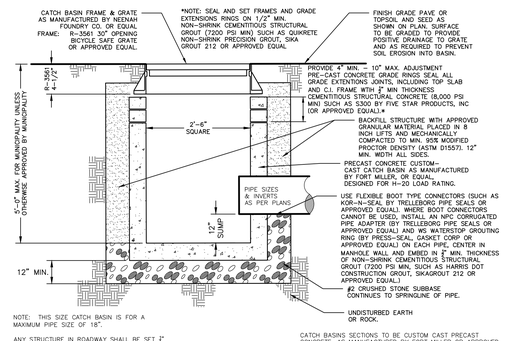
A. GENERAL NOTES:

1. SPECIAL ATTENTION SHALL BE GIVEN TO COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, THE BUILDING CODE OF NEW YORK STATE (BCNYS), FEDERAL FAIR HOUSING ACT AND APPLICABLE LOCAL LAWS AND REGULATIONS, LATEST EDITIONS.
2. IT IS ESSENTIAL THAT CONTRACTORS ARE AWARE OF THE SITE AC



1/13 FLARED END SECTION

NOT TO SCALE



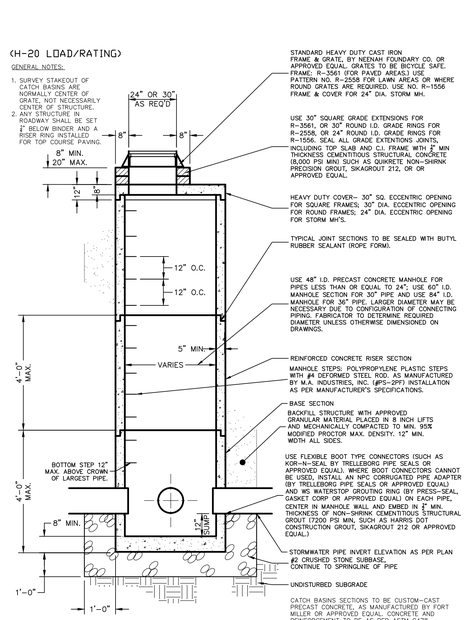
NOTE: THIS SIZE CATCH BASIN IS FOR A MAXIMUM PIPE SIZE OF 18".

ANY STRUCTURE IN ROADWAY SHALL BE SET 1/4" BELOW BINDER AND A RISER RING INSTALLED FOR TOP COURSE PAVING.

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.

2/13 TYPICAL SHALLOW CATCH BASIN

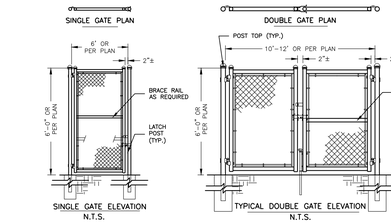
NOT TO SCALE



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.

5/13 TYPICAL DEEP CATCH BASIN

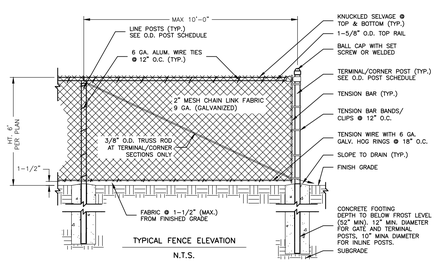
NOT TO SCALE



SINGLE LEAF GATES	
OPENING	POST O.D
3'-6"	3"
8'-12'	4"

DOUBLE LEAF GATES	
OPENING	POST O.D.
6'-12'	3"
14'-24'	4"

GATE NOTES:
CONC. FOOTING DEPTH & WIDTH AS PER MANUFACTURER.



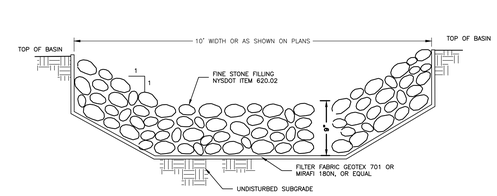
TYPICAL FENCE ELEVATION

N.T.S.

POST SCHEDULE		
FABRIC HEIGHT	LINE POST O.D.	END/ CORNER POST O.D.
6' - 8'	2-1/2"	3"

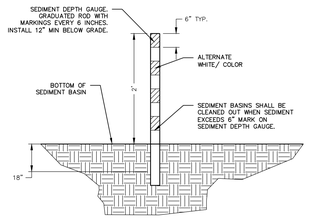
6/13 TYPICAL FENCE DETAILS

NOT TO SCALE



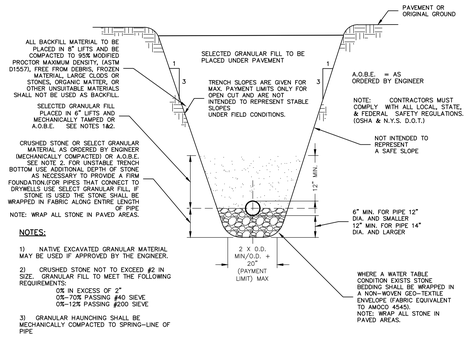
8/13 EMERGENCY OVERFLOW SPILLWAY

NOT TO SCALE



11/13 SEDIMENT DEPTH GAUGE

NOT TO SCALE



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:
OR IN EXCESS OF 2"
0%-70% PASSING #40 SIEVE
0%-12% PASSING #200 SIEVE

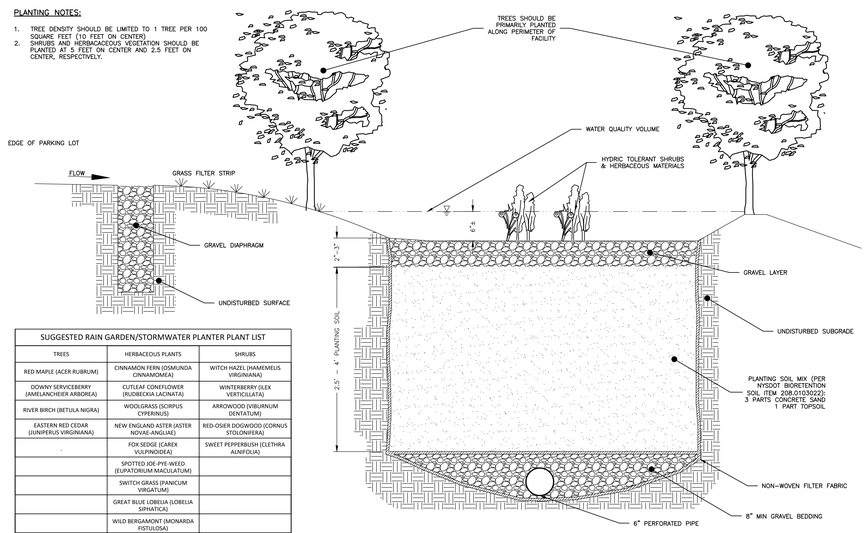
3) GRANULAR HAUNCHING SHALL BE MECHANICALLY COMPACTED TO SPRING-LINE OF PIPE

9/13 STORM TRENCH DETAIL

NOT TO SCALE

PLANTING NOTES:

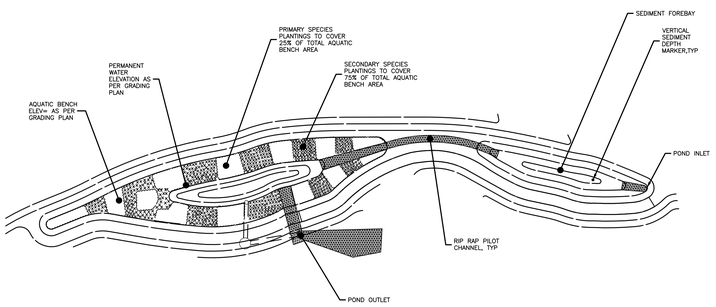
1. TREE DENSITY SHOULD BE LIMITED TO 1 TREE PER 100 SQUARE FEET (10 FEET ON CENTER)
2. SHRUBS AND HERBACEOUS VEGETATION SHOULD BE PLANTED AT 5 FEET ON CENTER AND 2.5 FEET ON CENTER, RESPECTIVELY.



SUGGESTED RAIN GARDEN/STORMWATER PLANTER 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 LACINIATA)	WINTERBERRY (ILEX VERTICILLATA)
RIVER BIRCH (BETULA NIGRA)	WOOLGRASS (SCIRPUS CYPERINUS)	ARROWOOD (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)	

3/13 BIORETENTION AREA

NOT TO SCALE

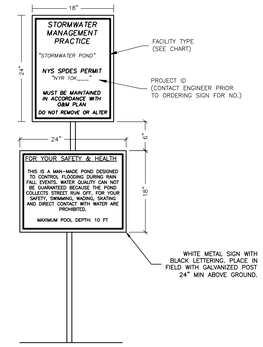


AQUATIC BENCH PLANTING TABLE

PLANTING ELEVATION	SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	PLANT SPACING	SIZE	PLANTING PERIOD
PRIMARY SPECIES	SAGITTARIA LATIFOLIA	DUCK POTATO	OBL	2' O.C.	2" PLUG	APRIL 15 – JUNE 15 SEPT.15 – OCT. 15
	SCIRPUS PUNGENS	COMMON THREE SQUARE	FACW+	2' O.C.	2" PLUG	
SECONDARY SPECIES	ACORUS CALAMUS	SWEET FLAG	OBL	2' O.C.	2" PLUG	
	HISBISCUS MOSCHEUTOS	ROSE MALLOW	OBL	2' O.C.	2" PLUG	
	LEERSIA ORYZOIDES	RICE CUTGRASS	OBL	2' O.C.	2" PLUG	
	NUPHAR LUTEUM	SPATTERDOCK	OBL	2' O.C.	2" PLUG	
	PELTANDRA VIRGINICA	ARROW-ARUM	OBL	2' O.C.	2" PLUG	
	PONDEDERIA CORDATA	PICKEREL WEED	OBL	2' O.C.	2" PLUG	
	SAURURUS CERNUUS	LIZARDS TAIL	OBL	2' O.C.	2" PLUG	

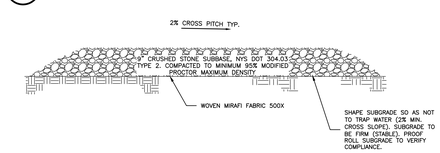
7/13 MIRCOPOOL EXTENDED DETENTION POND PLANTING DETAIL

NOT TO SCALE



12/13 STORMWATER MANAGEMENT FACILITY NOTIFICATION SIGN

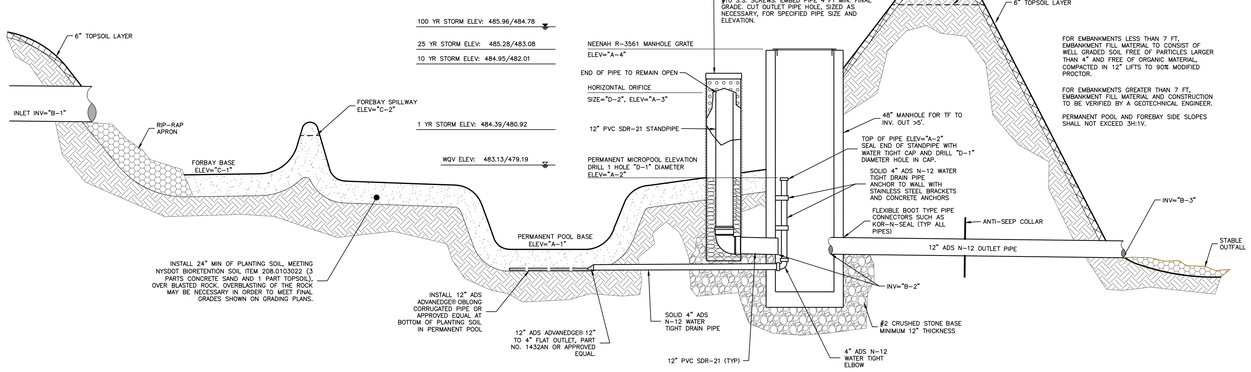
NOT TO SCALE



13/13 STORMWATER POND ACCESS ROAD

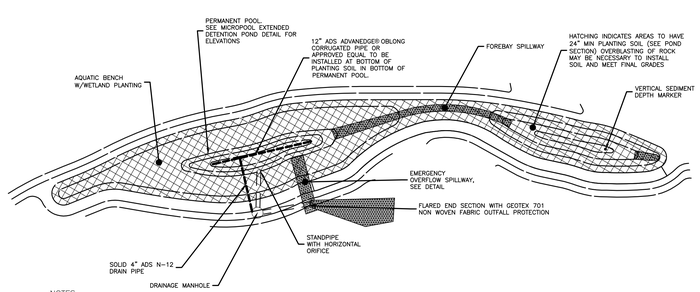
NOT TO SCALE

MICROPOOL EXTENDED DETENTION POND ELEVATIONS		
	SMA #1	SMA #2
A-1 (FT)	478.00	474.00
A-2 (FT)	482.00	478.00
A-3 (FT)	484.50	481.50
A-4 (FT)	484.75	484.75
A-5 (FT)	486.00	485.50
B-1 (FT)	484.25/ 482.30	482.65/ 484.00
B-2 (FT)	480.80	478.25
B-3 (FT)	480.30	478.00
C-1 (FT)	480.00	481.00
C-2 (FT)	484.25	484.25
D-1 (IN)	2.3	2.0
D-2 (IN)	12	12
STORM EVENT		
1 YR (FT)	484.39	480.92
10 YR (FT)	484.95	482.01
25 YR (FT)	485.29	483.08
100 YR (FT)	485.96	484.78



4/13 MICROPOOL EXTENDED DETENTION POND AND OUTLET STRUCTURE DETAIL

NOT TO SCALE



NOTES:

1.) STORM WATER PONDS HAVE BEEN DESIGNED WITH A MAXIMUM IMPOUNDMENT OF LESS THAN 3 ACRE-FT AND AN EMBANKMENT HEIGHT OF LESS THAN 10 FEET; THEREFORE, A NYS DEC DAM PERMIT IS NOT REQUIRED.

2.) REFER TO PLAN FOR ACTUAL ELEVATIONS & POND SHAPE.

10/13 MICROPOOL EXTENDED DETENTION DETAIL

NOT TO SCALE

ENVIRONMENTAL DESIGN PARTNERSHIP, LLP
Post Office Box 142 Clifton Park, New York 12065
(518) 371-7621 www.edp-pllc.com

TAX MAP No. 146.9-1-41
DECEMBER 2, 2018

PROPOSED APARTMENT COMMUNITY FOR THE QUARRY

THE QUARRY, LLC

DEAN ROAD
TOWN OF KINGSBURY
WASHINGTON COUNTY, NEW YORK

DRAWN BY	STD
CHECKED BY	BMF
EDP PROJECT NUMBER	11770

THE STRAMP OR SEAL OF THE ARCHITECT OR ENGINEER UNDER WHOSE SUPERVISION OR COMPARABLE PROFESSIONAL ESTABLISHED FOR AN ENGINEER OR ARCHITECT OR SURVEYOR FOR A SURVEYOR. IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION BULLAW AND/OR PROFESSIONAL ETHICS AND IS A CLASS "A" MISDEMEANOR.

REVISION	DATE	BY
REVISIONS PER TOWN COMMENTS	6/26/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/13/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	8/15/19	STD
REVISIONS PER WATER DEPARTMENT COMMENTS	1/21/20	STD
GENERAL REVISIONS	10/29/20	BMF
REVISIONS PER TDE COMMENTS	2/1/21	BMF

SCALE: N.T.S.

NOT FOR CONSTRUCTION

SHEET TITLE: STORM DETAILS

SHEET: 13 of 14

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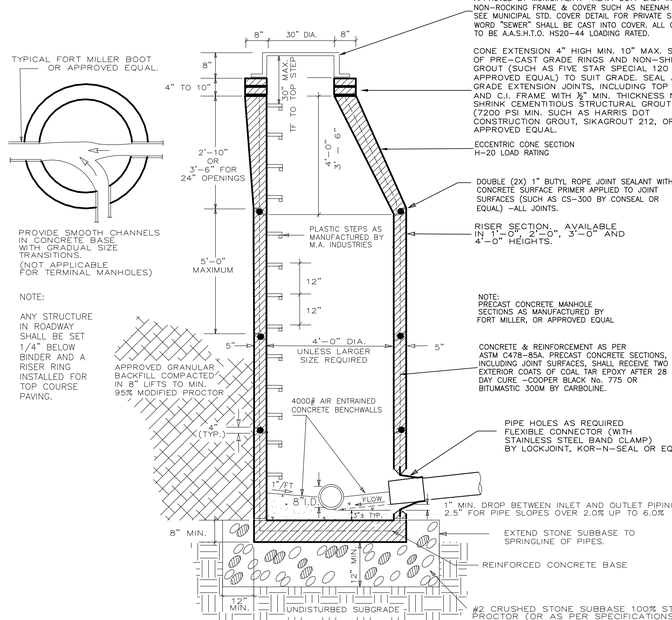
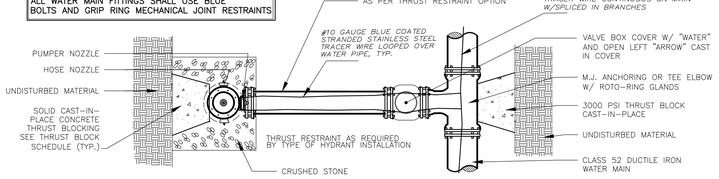
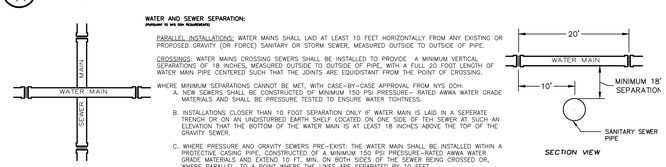


1/14 SANITARY MANHOLE
NOT TO SCALE

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



2/14 TYPICAL HYDRANT INSTALLATION
NOT TO SCALE



3/14 WATER AND SEWER SEPARATION
NOT TO SCALE

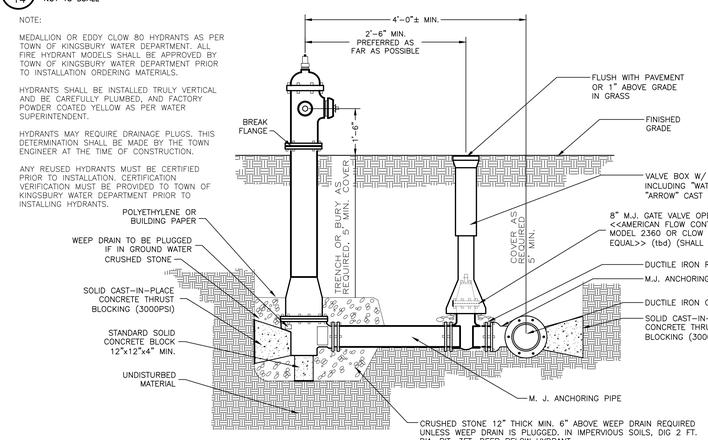
NOTE:

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

HYDRANTS SHALL BE INSTALLED TRULY VERTICAL AND BE CAREFULLY PLUMBED, AND FACTORY POWDER COATED YELLOW AS PER WATER SUPERINTENDENT.

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

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



4/14 TYPICAL HYDRANT PROFILE
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 PSF
220 DESIGN PRESSURE

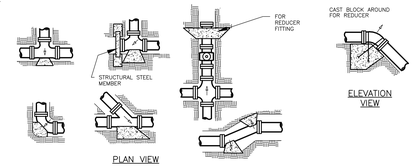
THRUST REACTIONS — R(LB) PER 100PSI INTERNAL PRESSURE					
PIPE SIZE (INCHES)	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	1,810	2,559	1,385	706	355
6	3,739	5,288	2,862	1,459	733
8	6,433	9,097	4,923	2,510	1,261
10	9,677	13,685	7,406	3,776	1,897
12	13,685	19,353	10,474	5,340	2,683
14	18,385	26,001	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	BEND	45° 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	1.5X4.2	1.0X3.2	1.0X1.6	0.8X1.0
8	2.0X3.6	2.0X5.1	1.4X3.9	1.4X2.0	1.0X1.4
10	2.5X4.4	2.5X6.2	1.7X4.9	1.75X2.4	1.25X1.7
12	3.0X5.2	3.0X7.3	2.0X5.8	2.0X3.0	1.5X2.0
14	3.5X5.9	3.5X8.3	2.5X6.3	2.5X3.2	1.75X2.3
16	4.0X6.7	4.0X9.5	2.7X7.6	2.75X3.8	2.0X2.6
18	4.5X7.5	4.5X10.6	3.0X8.6	3.0X4.4	2.2X3.0
20	5.0X8.25	5.0X11.7	3.4X9.3	3.4X4.75	2.5X3.25
24	6.0X9.8	6.0X13.9	4.0X11.25	4.0X5.75	2.8X4.1
30	7.5X12.1	7.5X17.1	5.0X13.8	5.0X7.1	3.0X5.9
36	9.0X14.4	9.0X20.4	6.0X16.5	6.0X8.4	3.3X7.7

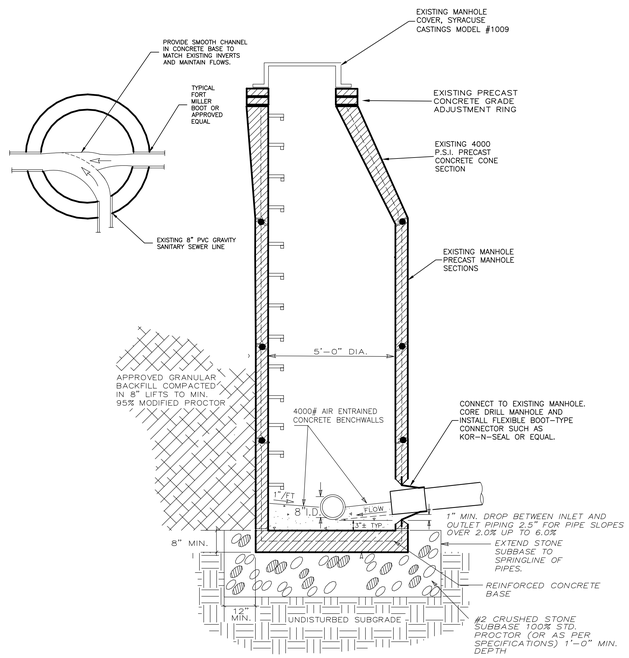
THRUST BLOCK NOTES:

1. 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. REMOVE MUCK, PEAT OR RECENTLY PLACED FILL. ALL THRUSTS SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS. ALL AS REQUIRED BY THE WATER SUPERINTENDENT.
5. ALL THRUST BLOCKS SHALL BE CAST-IN-PLACE.
6. ALL DUCTILE IRON WATER MAIN SHALL BE ENCASED IN POLYETHYLENE, IF TESTING WARRANTS.

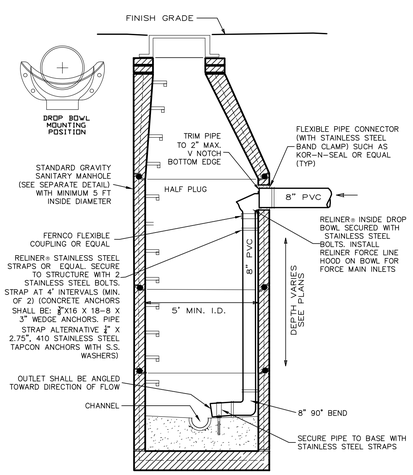
SOIL	BEARING STRENGTH S_B (LBS/FT²)
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000



5/14 TYPICAL THRUST BLOCKS
NOT TO SCALE



6/14 CONNECTION TO EXISTING MANHOLE
NOT TO SCALE



7/14 DROP SANITARY MANHOLE
NOT TO SCALE

DISINFECTION PROCEDURE

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

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

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

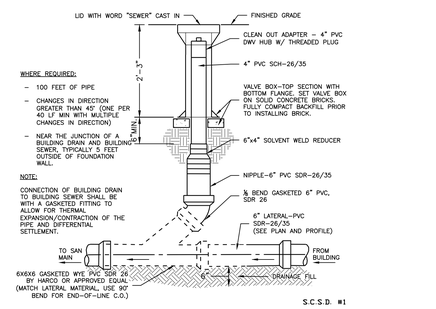
WATER NOTES:

1) *ALL PIPE MATERIALS AND APPURTENANCES ARE SUBJECT TO APPROVAL BY THE OWNER AND DESIGN ENGINEER. CONTRACTOR TO CONFIRM WITH OWNER PRIOR TO ORDERING.*
2) *THE CONTRACTOR SHALL VERIFY SIZE, TYPE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING WATER MAIN AT THE PROPOSED CONNECTION POINT(S) PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS. CONFLICTS WITH OTHER UTILITIES TO BE CONSTRUCTED ARE TO BE AVOIDED. DISCREPANCIES OR CONFLICTS WITH EXISTING UTILITIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.*
3) *MINIMUM WATER MAIN DEPTH (COVER) TO FINISH GRADE SHALL BE 5'-0"*
4) *ALL FILL BELOW WATER MAIN SHALL BE COMPACTED GRANULAR MATERIAL (MIN 95% MODIFIED PROCTOR TYP).*
5) *ALL TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED TO PREVENT SETTLEMENT. TOP TRENCH WITH 12" MIN. APPROVED GRAVEL IN PAVED AREAS AND ALONG SIDE OF EXISTING ROAD FOR SHOULDER BASE. REPLACE DAMAGED PAVEMENTS WITH LIKE KIND AND LIKE THICKNESS.*
6) *WATER MAINS ARE TO BE INSTALLED IN ACCORDANCE WITH AWWA STANDARDS: C600-05 FOR DUCTILE IRON, C900-97 OR MANUAL 23 FOR PVC AND MANUAL M55 FOR PE PIPE.*
7) *ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA STANDARD C602.*
8) *ALL WATER PIPE AND APPURTENANCES SHALL BE EITHER NSF OR UL APPROVED FOR USE WITH POTABLE WATER AND SHALL BEAR THEIR RESPECTIVE SEAL.*
9) *MINIMUM SEPARATIONS BETWEEN WATER MAINS AND SANITARY AND STORM SEWERS ARE REQUIRED PER NYSDOH AND TEN STATE STANDARDS AT CROSSINGS, 18" MIN; WHERE PARALLEL, 10 FT. MIN. (MEASURED O.D. TO O.D.)*

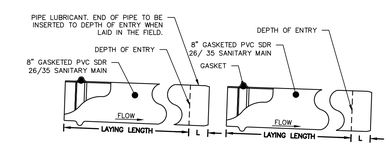
   WHERE MINIMUM SEPARATIONS CANNOT BE MAINTAINED:

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

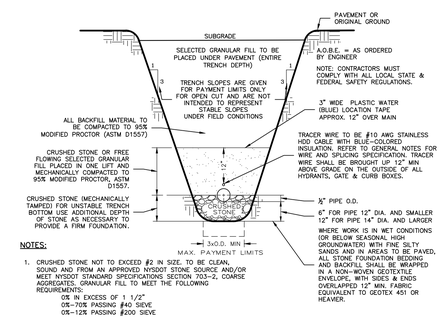
   WHERE SEWERS PRE-EXIST, THE WATER MAIN SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE (CONSTRUCTED OF WATER MAIN MATERIALS) AND EXTEND 10 FT. MIN ON BOTH SIDES OF SEWER BEING CROSSED OR TO A POINT WHERE LINES ARE SEPARATED TO FT.
10) *THRUST BLOCKING SHALL BE CAST IN PLACE CONCRETE AND SHALL BE SIZED AS PER THRUST BLOCK SCHEDULE THIS SHEET. SUBSTITUTE MECHANICAL RESTRAINTS MUST BE APPROVED BY THE ENGINEER.*
11) *ALL NEW WATER MAIN WORKS ARE TO BE HYDROSTATICALLY TESTED AT 150 PSI MIN. IN ACCORDANCE WITH AWWA STANDARDS: C600-05 SECT. 4 FOR DUCTILE IRON, MANUAL M23 FOR PVC AND MANUAL M55 FOR PE. RESULTS TO BE SUBMITTED TO OWNER. MODIFICATIONS TO EXISTING WORKS SHALL BE VISUALLY TESTED FOR LEAKS UNDER NORMAL WORKING PRESSURE PRIOR TO BACKFILL.*
12) *ALL WATER MAIN WORKS SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C651-99 (SEE DISINFECTION PROCEDURE THIS SHEET) RESULTS TO BE SUBMITTED TO THE OWNER AND NYS DEPARTMENT OF HEALTH.*
13) *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).*
14) *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.*
15) *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.*
16) *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.*
17) *ALL GENERAL AND SPECIFIC NOTES AND DETAILS ON OTHER PLAN SHEETS THAT ARE PART OF THESE PLANS SHALL APPLY.*
18) *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.*
19) *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.*



8/14 SANITARY SEWER CLEANOUT
NOT TO SCALE



11/14 SANITARY PIPE JOINT CONNECTION
NOT TO SCALE


PAVEMENT OR ORIGINAL GROUND
SUBGRADE
SELECTED GRANULAR FILL TO BE PLACED UNDER PAVEMENT (ENTIRE TRENCH DEPTH)
A.O.B.E. = AS ORDERED BY ENGINEER
NOTE: CONTRACTORS MUST COMPLY WITH ALL LOCAL STATE & FEDERAL SAFETY REGULATIONS.
TRENCH SLOPES ARE GIVEN FOR PAYMENT LIMITS ONLY FOR OPEN CUT AND ARE NOT INTENDED TO REPRESENT STABLE SLOPES UNDER FIELD CONDITIONS
3" WIDE PLAST