THE NORTH 60

AN INNOVATIVE BIOSCIENCE, TECHNOLOGY & LIFESTYLE CAMPUS

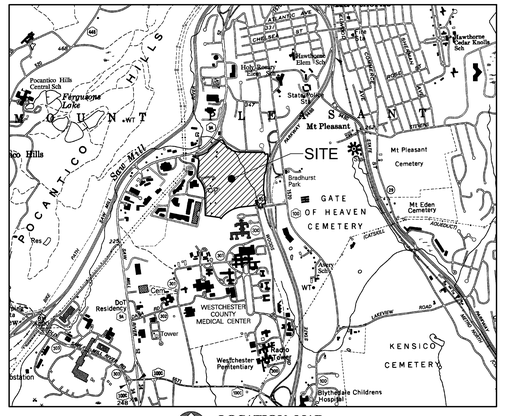
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY, NY



PLAN
GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.



LOCATION MAP
N.T.S.

PROJECT TEAM:

OWNER/APPLICANT
WESTCHESTER COUNTY AND 81 HOLLY HILL LANE, LLC
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2 DEARFIELD DRIVE SUITE 3
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(203) 422-6700

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JILL GALLANT

UTILITY ENGINEER
STANTEC
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STAMFORD, CT 06905
(203) 352-1717
CONTACT: JOSEPH BARTELS, P.E.

REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS		NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS		NG
6-25-20	SEWER MAIN REVISION	NG/TA				
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

STATE OF NEW YORK · TIMOTHY S. ALLEN · 073434 · LICENSED PROFESSIONAL ENGINEER
TIMOTHY S. ALLEN, P.E.

COVER SHEET - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

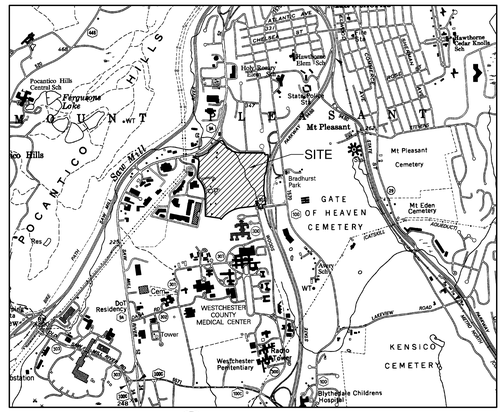
BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	1" = 200'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	1 OF 18
DWG NO.	**CS-1**

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LOCATION MAP
N.T.S.

LEGEND		
COLOR	DESCRIPTION	TOTAL AREA
	STEEP SLOPES (15% - 25%)	464,562 SF
	VERY STEEP SLOPES (25% - 35%)	213,288 SF
	EXCESSIVELY STEEP SLOPES (35% OR GREATER)	239,038 SF

LEGEND

- EXISTING PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING TREE
- SOIL BOUNDARY LINE
- WdB — USGS SOIL CLASSIFICATION
- D — HYDROLOGIC SOIL GROUP

PLAN
GRAPHIC SCALE

100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

REVISIONS						
1	12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
2	3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
3	6-25-20	SEWER MAIN REVISION	NG/TA			
	DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

EXISTING CONDITIONS - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

DATE:	JUNE 14, 2019
SCALE:	1" = 100'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	2 OF 18
DWG NO.	EX-1

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TIMOTHY S. ALLEN, P.E.

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LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR (410)
- PROPOSED STORMWATER TREATMENT AREA
- PROPOSED 24' ROADWAY W / CURBING
- PROPOSED PARKING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED RETAINING WALL
- PROPOSED FUTURE BUILDING
- PROPOSED PHASE 1 BUILDING

PLAN

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

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REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS		NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS		NG
6-25-20	SEWER MAIN REVISION	NG/TA				
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

TIMOTHY S. ALLEN, P.E.
STATE OF NEW YORK · TIMOTHY S. ALLEN · 073434 · LICENSED PROFESSIONAL ENGINEER

LAYOUT PLAN - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	1" = 80'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	3 OF 18
DWG NO.	**LP-1**

MATCH LINE - GRADING PLAN NORTHWEST

MATCH LINE - GRADING PLAN EAST

MATCH LINE - GRADING PLAN WEST

MATCH LINE - GRADING PLAN EAST

MATCH LINE - GRADING PLAN WEST

SAW MILL

SKYLINE DRIVE

WEST STREET

CROSS STREET

MAIN STREET

HOTEL DRIVE

NORTH PARKING LOT

CENTRAL PARKING LOT

EAST PARKING LOT

WEST PARKING LOT

EXISTING PARKING LOT

Wetland #1

Wetland #2

Wetland #3

Wetland #4

PROPOSED RETAINING WALL

PROPOSED EMERGENCY SPILLWAY (TYP.)

PROVIDE RIP-RAP OUTLET PROTECTION AT END SECTION (TYP.)

INF. SYS. 4 (60) R-330XLHD CHAMBERS

INF. SYS. 1 (152) 36DHD CHAMBERS

INF. SYS. 2 (189) 36DHD CHAMBERS

INF. SYS. 3 (165) R-330XLHD CHAMBERS

INF. SYS. 9 (30) R-330XLHD CHAMBERS

BERM ELEV.=378.0'

POND W.E.= 359.1

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 24' ROADWAY W / CURBING
- PROPOSED PARKING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED PHASE BUILDING
- PROPOSED INFILTRATION SYSTEM
- DISTURBANCE LIMIT LINE

PLAN

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

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REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RHING	2-2-21	DEIS COMMENTS		NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS		NG
6-25-20	SEWER MAIN REVISION	NG/TA				
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

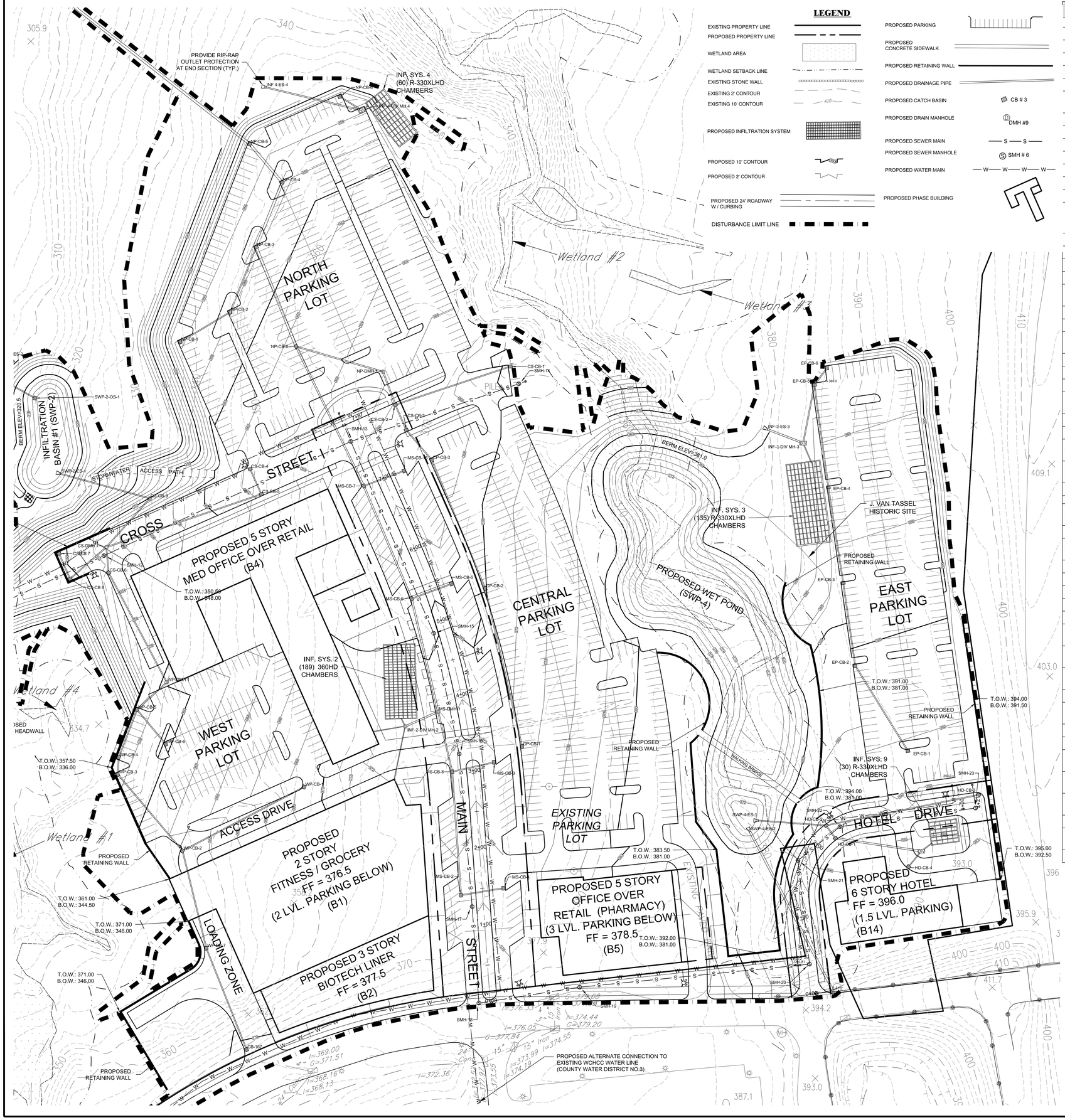
TIMOTHY S. ALLEN, P.E.

GRADING PLAN KEY MAP - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	1" = 80'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	4 OF 18
DWG NO.	**GP-1**



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED INFILTRATION SYSTEM
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 24' ROADWAY W / CURBING
- DISTURBANCE LIMIT LINE
- PROPOSED PARKING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN (CB # 3)
- PROPOSED DRAIN MANHOLE (DMH #9)
- PROPOSED SEWER MAIN (S — S)
- PROPOSED SEWER MANHOLE (SMH # 6)
- PROPOSED WATER MAIN (W — W — W — W)
- PROPOSED PHASE BUILDING

DRAINAGE SCHEDULE

NAME:	RIM ELEV:	PIPES IN:	PIPES OUT:
CB-167	371.03		15" CORRUGATED HDPE PIPE TO WP-CB-7 INV OUT = 362.00 L = 137.59' S = 1.41%
CP-CB-1	373.33		15" HDPE TO CP-CB-2 INV OUT = 368.50 L = 206.84' S = 1.00%
CP-CB-2	369.97	15" HDPE FROM CP-CB-1 INV IN = 366.39 L = 206.84' S = 1.00%	15" HDPE TO CP-CB-3 INV OUT = 366.39 L = 176.63' S = 1.25%
CP-CB-3	367.43	15" HDPE FROM CP-CB-2 INV IN = 364.13 L = 176.63' S = 1.25%	15" HDPE TO CS-CB-3 INV OUT = 364.13 L = 47.63' S = 1.00%
CS-CB-1	370.20		15" HDPE TO CS-CB-2 INV OUT = 366.00 L = 153.53' S = 1.90%
CS-CB-2	366.44	15" HDPE FROM CS-CB-3 INV IN = 362.75 L = 32.75' S = 2.44% 15" HDPE FROM CS-CB-1 INV IN = 363.00 L = 153.53' S = 1.90%	18" HDPE TO NP-DMH-1 INV OUT = 362.50 L = 42.28' S = 3.25%
CS-CB-3	366.64	15" HDPE FROM CP-CB-3 INV IN = 363.62 L = 47.63' S = 1.00%	15" HDPE TO CS-CB-2 INV OUT = 363.62 L = 32.75' S = 2.44%
CS-CB-4	362.27		15" HDPE TO CS-CB-5 INV OUT = 358.75 L = 32.66' S = 1.00%
CS-CB-5	362.27	15" HDPE FROM CS-CB-4 INV IN = 358.39 L = 32.66' S = 1.00%	15" HDPE TO CS-DMH 1 INV OUT = 358.75 L = 209.24' S = 5.60%
CS-CB-9	350.32	15" HDPE FROM CS-DMH 1 INV IN = 341.11 L = 80.86' S = 2.89%	15" HDPE TO SWP-2-ES-1 INV OUT = 341.11 L = 121.39' S = 22.54%
CS-CB 6	352.43	15" HDPE FROM WP-DMH 1 INV IN = 349.37 L = 157.00' S = 2.00%	15" HDPE TO CS-DMH 1 INV OUT = 348.32 L = 28.76' S = 4.50%
CS-CB 7	348.91		15" HDPE TO CS-CB 8 INV OUT = 346.06 L = 32.71' S = 1.00%
CS-CB 8	349.71	15" HDPE FROM CS-CB 7 INV IN = 345.70 L = 32.71' S = 1.00%	15" HDPE TO CS-DMH 1 INV OUT = 345.70 L = 58.44' S = 1.00%
CS-DMH 1	352.91	15" HDPE FROM CS-CB-5 INV IN = 346.82 L = 209.24' S = 5.60% 15" HDPE FROM CS-CB 6 INV IN = 346.82 L = 28.76' S = 4.50% 15" HDPE FROM CS-CB 8 INV IN = 345.07 L = 58.44' S = 1.00%	15" HDPE TO CS-CB-9 INV OUT = 343.56 L = 80.86' S = 2.89%
EP-CB-1	391.88		15" HDPE TO EP-CB-2 INV OUT = 388.69 L = 126.30' S = 1.00%
EP-CB-2	390.57	15" HDPE FROM EP-CB-1 INV IN = 387.38 L = 126.30' S = 1.00%	15" HDPE TO EP-CB-3 INV OUT = 387.38 L = 105.13' S = 3.27%
EP-CB-3	388.19	15" HDPE FROM EP-CB-2 INV IN = 383.83 L = 105.13' S = 3.27%	15" HDPE TO EP-CB-4 INV OUT = 383.83 L = 122.75' S = 1.00%
EP-CB-4	386.45	15" HDPE FROM EP-CB-3 INV IN = 382.58 L = 122.75' S = 1.00%	15" HDPE TO EP-CB-5 INV OUT = 382.58 L = 131.31' S = 1.00%
EP-CB-5	384.69	15" HDPE FROM EP-CB-6 INV IN = 381.30 L = 22.59' S = 1.10% 15" HDPE FROM EP-CB-4 INV IN = 381.25 L = 131.31' S = 1.00%	15" HDPE TO INF-3-DIV MH-3 INV OUT = 381.25 L = 71.92' S = 1.00%
EP-CB-6	385.96		15" HDPE TO EP-CB-5 INV OUT = 381.60 L = 22.59' S = 1.10%
HD-CB-1	393.00	24" HDPE FROM INF-9-DIV MH-9 INV IN = 386.00 L = 108.69' S = 1.77%	15" HDPE TO HD-CB-2 INV OUT = 389.33 L = 17.56' S = 1.61%
HD-CB-2	393.00	15" HDPE FROM HD-CB-3 INV IN = 380.50 L = 197.57' S = 0.99% 15" HDPE FROM HD-CB-1 INV IN = 389.00 L = 17.56' S = 1.61%	15" HDPE TO SWP-4-ES-1 INV OUT = 380.50 L = 89.63' S = 9.27%
HD-CB-3	391.50		15" HDPE TO HD-CB-2 INV OUT = 382.50 L = 197.57' S = 0.99%
HD-CB-4	391.00		12" CORRUGATED HDPE PIPE TO INF-9-DIV MH-9 INV OUT = 388.00 L = 21.48' S = 1.90%
INF-1		12" CORRUGATED HDPE PIPE FROM INF-1-DIV MH-1 INV IN = 323.00 L = 8.16' S = 0.00%	
INF-1-DIV MH-1	327.13	15" HDPE FROM WS-DMH-5 INV IN = 324.62 L = 282.69' S = 4.06%	24" CORRUGATED HDPE PIPE TO INF-1-ES-1 INV OUT = 323.00 L = 51.16' S = 5.87% 12" CORRUGATED HDPE PIPE TO INF-1 INV OUT = 323.00 L = 8.16' S = 0.00%
INF-1-ES-1		24" CORRUGATED HDPE PIPE FROM INF-1-DIV MH-1 INV IN = 320.00 L = 51.16' S = 5.87%	
INF-2		12" CORRUGATED HDPE PIPE FROM INF-2-DIV MH-2 INV IN = 360.50 L = 10.05' S = 0.00%	
INF-2-DIV MH-2	371.26		12" CORRUGATED HDPE PIPE TO INF-2 INV OUT = 360.50 L = 10.05' S = 0.00% 24" CORRUGATED HDPE PIPE TO MS-DMH-1 INV OUT = 363.00 L = 44.88' S = 1.07%
INF-3-DIV MH-3	384.55	15" HDPE FROM EP-CB-3 INV IN = 380.48 L = 71.92' S = 1.00%	24" HDPE TO INF-3-ES-3 INV OUT = 378.00 L = 48.14' S = 2.00% 12" CORRUGATED HDPE PIPE TO INV OUT = 378.00 L = 24.29' S = 0.00%
INF-3-ES-3		24" HDPE FROM INF-3-DIV MH-3 INV IN = 377.00 L = 48.14' S = 2.00%	
INF-4			
INF-4-DIV MH 4	356.00	36" HDPE FROM INV IN = 345.00 L = 0.91' S = 27.77% 15" HDPE FROM NP-CB-6 INV IN = 347.50 L = 28.27' S = 7.40%	12" CORRUGATED HDPE PIPE TO INV OUT = 346.50 L = 7.64' S = 0.00% 12" CORRUGATED HDPE PIPE TO INV OUT = 346.50 L = 125.82' S = 2.73%
INF-9		12" CORRUGATED HDPE PIPE FROM INF-9-DIV MH-9 INV IN = 388.00 L = 14.86' S = 0.00%	
INF-9-DIV MH-9	392.00	12" CORRUGATED HDPE PIPE FROM HD-CB-4 INV IN = 388.00 L = 21.48' S = 1.90%	24" HDPE TO HD-CB-1 INV OUT = 388.00 L = 108.69' S = 1.77% 12" CORRUGATED HDPE PIPE TO INF-9 INV OUT = 388.00 L = 14.86' S = 0.00%
INF 4-ES-4		18" HDPE FROM INF-4-DIV MH 4 INV IN = 344.00 L = 125.82' S = 2.73%	
MS-CB-1	375.54		15" HDPE TO MS-CB-2 INV OUT = 372.21 L = 52.65' S = 1.00%
MS-CB-2	375.01	15" HDPE FROM MS-CB-1 INV IN = 371.66 L = 52.65' S = 1.00%	18" HDPE TO MS-CB-3 INV OUT = 371.41 L = 156.87' S = 2.00%
MS-CB-3	372.25		15" HDPE TO MS-CB-6 INV OUT = 368.89 L = 52.58' S = 1.00%
MS-CB-5	368.96		15" HDPE TO MS-CB-6 INV OUT = 365.76 L = 52.20' S = 2.29%
MS-CB-6	368.08	15" HDPE FROM MS-CB-5 INV IN = 364.50 L = 52.20' S = 2.29% 24" CORRUGATED HDPE PIPE FROM MS-DMH-1 INV IN = 360.50 L = 150.84' S = 1.33%	24" CORRUGATED HDPE PIPE TO MS-CB-7 INV OUT = 360.50 L = 159.08' S = 1.26%
MS-CB-7	365.73	24" CORRUGATED HDPE PIPE FROM MS-CB-6 INV IN = 358.50 L = 159.08' S = 1.26% 15" HDPE FROM MS-CB-16 INV IN = 362.00 L = 52.73' S = 1.80%	24" CORRUGATED HDPE PIPE TO NP-CB-8 INV OUT = 358.50 L = 199.43' S = 1.74%
MS-CB-8	372.14	15" HDPE FROM MS-CB-3 INV IN = 368.34 L = 52.58' S = 1.00% 18" HDPE FROM MS-CB-2 INV IN = 368.19 L = 156.87' S = 2.00%	18" HDPE TO MS-DMH-1 INV OUT = 368.19 L = 76.23' S = 3.36%
MS-CB-16	366.41		15" HDPE TO MS-CB-7 INV OUT = 363.00 L = 52.73' S = 1.80%
MS-DMH-1	370.49	18" HDPE FROM MS-CB-8 INV IN = 365.50 L = 76.23' S = 3.36% 24" CORRUGATED HDPE PIPE FROM INF-2-DIV MH-2 INV IN = 362.50 L = 44.88' S = 1.07%	24" CORRUGATED HDPE PIPE TO MS-CB-6 INV OUT = 362.50 L = 150.84' S = 1.33%
NP-CB-1	355.95		15" HDPE TO NP-CB-2 INV OUT = 352.50 L = 72.43' S = 1.00%
NP-CB-2	357.90	15" HDPE FROM NP-CB-1 INV IN = 351.75 L = 72.43' S = 1.00%	15" HDPE TO NP-CB-3 INV OUT = 351.75 L = 86.34' S = 1.00%
NP-CB-3	358.06	36" HDPE FROM NP-CB-8 INV IN = 349.09 L = 135.81' S = 4.25% 15" HDPE FROM NP-CB-2 INV IN = 350.84 L = 86.34' S = 1.00%	36" HDPE TO NP-CB-4 INV OUT = 349.09 L = 86.76' S = 0.60%
NP-CB-4	357.99	36" HDPE FROM NP-CB-5 INV IN = 350.30 L = 61.01' S = 1.00% 36" HDPE FROM NP-CB-3 INV IN = 348.54 L = 86.76' S = 0.60%	
NP-CB-5	355.66		36" HDPE TO NP-CB-4 INV OUT = 350.95 L = 61.01' S = 1.00% 36" HDPE TO SWP-3-ES-1 INV OUT = 336.00 L = 513.82' S = 3.11%
NP-CB-6	354.36		15" HDPE TO INF-4-DIV MH 4 INV OUT = 350.00 L = 28.27' S = 7.40%
NP-CB-8	362.20	18" HDPE FROM NP-DMH-1 INV IN = 357.44 L = 113.67' S = 3.04% 24" CORRUGATED HDPE PIPE FROM MS-CB-7 INV IN = 355.00 L = 199.43' S = 1.74%	36" HDPE TO NP-CB-3 INV OUT = 355.00 L = 135.81' S = 4.25%
NP-DMH-1	365.70	18" HDPE FROM CS-CB-2 INV IN = 361.01 L = 42.28' S = 3.25%	18" HDPE TO NP-CB-8 INV OUT = 361.01 L = 113.67' S = 3.04%

DRAINAGE SCHEDULE

NAME:	RIM ELEV:	PIPES IN:	PIPES OUT:
SWP-1-ES-1		18" HDPE FROM WS-CB-26 INV IN = 230.49 L = 124.65' S = 1.60%	
SWP-1-OS-1	238.00		15" CORRUGATED HDPE PIPE TO WS-CB-28 INV OUT = 232.00 L = 114.83' S = 13.24%
SWP-2-ES-1		15" HDPE FROM CS-CB-9 INV IN = 314.00 L = 121.39' S = 22.54%	
SWP-2-ES-2		15" HDPE FROM SWP-2-OS-1 INV IN = 304.00 L = 58.61' S = 6.67%	
SWP-2-OS-1	319.50		15" HDPE TO SWP-2-ES-2 INV OUT = 308.00 L = 58.61' S = 6.67%
SWP-3-ES-1		36" HDPE FROM NP-CB-5 INV IN = 320.00 L = 513.82' S = 3.11%	
SWP-3-ES-2		24" CORRUGATED HDPE PIPE FROM SWP-3-OS-1 INV IN = 236.89 L = 93.11' S = 10.88% 24" HDPE FROM SWP-3-OS-1 INV IN = 238.94 L = 92.38' S = 9.95%	
SWP-3-OS-1	256.28		24" HDPE TO SWP-3-ES-2 INV OUT = 249.22 L = 92.38' S = 9.95% 24" CORRUGATED HDPE PIPE TO SWP-3-ES-2 INV OUT = 246.98 L = 93.11' S = 10.88%
SWP-4-ES-1		15" HDPE FROM HD-CB-2 INV IN = 372.00 L = 89.63' S = 9.27%	
SWP-4-ES-2		30" HDPE FROM INV IN = 372.00 L = 235.44' S = 3.61%	
WP-CB-1	368.65		15" HDPE TO WP-CB-2 INV OUT = 365.31 L = 173.73' S = 4.10%
WP-CB-2	361.50	15" CORRUGATED HDPE PIPE FROM WP-CB-7 INV IN = 355.30 L = 125.70' S = 3.61% 15" HDPE FROM WP-CB-1 INV IN = 358.00 L = 173.73' S = 4.10%	15" HDPE TO WP-CB-3 INV OUT = 355.30 L = 126.29' S = 1.00%
WP-CB-3	357.64	15" HDPE FROM WP-CB-2 INV IN = 354.00 L = 126.29' S = 1.00%	15" HDPE TO WP-CB-4 INV OUT = 354.00 L = 17.76' S = 1.00%
WP-CB-4	357.50	15" HDPE FROM WP-CB-3 INV IN = 353.78 L = 17.76' S = 1.00%	15" HDPE TO WP-CB-5 INV OUT = 353.78 L = 62.31' S = 1.00%
WP-CB-5	357.50	15" HDPE FROM WP-CB-6 INV IN = 353.25 L = 54.34' S = 1.29% 15" HDPE FROM WP-CB-4 INV IN = 353.12 L = 62.31' S = 1.00%	15" HDPE TO WP-DMH 1 INV OUT = 353.12 L = 48.29' S = 1.00%
WP-CB-6	359.50		15" HDPE TO WP-CB-5 INV OUT = 354.00 L = 54.34' S = 1.29%
WP-CB-7	362.86	15" CORRUGATED HDPE PIPE FROM CB-167 INV IN = 360.00 L = 137.59' S = 1.41%	15" CORRUGATED HDPE PIPE TO WP-CB-2 INV OUT = 360.00 L = 125.70' S = 3.61%
WP-DMH 1	360.20	15" HDPE FROM WP-CB-5 INV IN = 352.59 L = 48.29' S = 1.00%	15" HDPE TO CS-CB 6 INV OUT = 352.59 L = 157.00' S = 2.00%
WS-CB-1	360.55		15" HDPE TO WS-CB-2 INV OUT = 357.19 L = 35.78' S = 1.00%
WS-CB-2	360.59	15" HDPE FROM WS-CB-1 INV IN = 356.80 L = 35.78' S = 1.00%	15" HDPE TO WS-CB-3 INV OUT = 353.60 L = 200.44' S = 3.00%
WS-CB-3	354.41	15" HDPE FROM WS-CB-2 INV IN = 350.67 L = 200.44' S = 3.00% 15" HDPE FROM WS-CB-4 INV IN = 350.67 L = 35.80' S = 1.00%	15" HDPE TO WS-DMH-1 INV OUT = 350.07 L = 116.83' S = 1.40%
WS-CB-4	354.42		15" HDPE TO WS-CB-3 INV OUT = 351.06 L = 35.80' S = 1.00%
WS-CB-5	351.81		15" HDPE TO WS-CB-6 INV OUT = 348.45 L = 35.00' S = 1.20%
WS-CB-6	351.84	15" HDPE FROM WS-DMH-1 INV IN = 348.00 L = 94.81' S = 0.99% 15" HDPE FROM WS-CB-5 INV IN = 348.00 L = 35.00' S = 1.20%	15" HDPE TO WS-CB-8 INV OUT = 348.00 L = 200.11' S = 1.00%
WS-CB-7	371.00		15" HDPE TO WS-CB-8 INV OUT = 345.90 L = 35.56' S = 1.00%
WS-CB-8	349.29	15" HDPE FROM WS-CB-6 INV IN = 345.96 L = 200.11' S = 1.00% 15" HDPE FROM WS-CB-7 INV IN = 345.51 L = 35.56' S = 1.00%	15" HDPE TO WS-CB-9 INV OUT = 345.51 L = 115.77' S = 1.65%
WS-CB-9	347.25	15" HDPE FROM WS-CB-8 INV IN = 343.53 L = 115.77' S = 1.65%	15" HDPE TO WS-DMH-3 INV OUT = 343.50 L = 53.10' S = 1.26%
WS-CB-10	339.45		15" HDPE TO WS-CB-11 INV OUT = 336.08 L = 35.76' S = 1.01%
WS-CB-11	339.50	15" HDPE FROM WS-CB-10 INV IN = 335.66 L = 35.76' S = 1.01%	15" HDPE TO WS-CB-12 INV OUT = 333.00 L = 135.75' S = 3.94%
WS-CB-12	332.43	15" HDPE FROM WS-CB-11 INV IN = 329.55 L = 135.75' S = 3.94%	15" HDPE TO WS-DMH-4 INV OUT = 329.50 L = 72.11' S = 2.41%
WS-CB-13	322.08		15" HDPE TO WS-CB-14 INV OUT = 318.72 L = 32.58' S = 1.00%
WS-CB-14	322.06	15" HDPE FROM WS-CB-13 INV IN = 318.36 L = 32.58' S = 1.00%	15" HDPE TO WS-CB-15 INV OUT = 317.69 L = 161.74' S = 9.99%
WS-CB-15	306.48	18" HDPE FROM WS-CB-14 INV IN = 301.20 L = 161.74' S = 9.99% 15" HDPE FROM WS-CB-16 INV IN = 302.64 L = 32.50' S = 1.00%	15" HDPE TO WS-CB-18 INV OUT = 301.20 L = 148.08' S = 8.99%
WS-CB-16	306.35		15" HDPE TO WS-CB-15 INV OUT = 302.99 L = 32.50' S = 1.00%
WS-CB-17	292.21		15" HDPE TO WS-CB-18 INV OUT = 288.85 L = 32.67' S = 1.00%
WS-CB-18	292.22	15" HDPE FROM WS-CB-15 INV IN = 287.55 L = 148.08' S = 8.99% 15" HDPE FROM WS-CB-17 INV IN = 288.50 L = 32.67' S = 1.00%	15" HDPE TO WS-CB-19 INV OUT = 287.56 L = 154.74' S = 8.99%
WS-CB-19	276.94	15" HDPE FROM WS-CB-18 INV IN = 273.36 L = 154.74' S = 8.99% 15" HDPE FROM WS-CB-20 INV IN = 273.29 L = 32.50' S = 1.01%	15" HDPE TO WS-CB-22 INV OUT = 272.36 L = 139.66' S = 10.01%
WS-CB-20	277.01		15" HDPE TO WS-CB-19 INV OUT = 273.65 L = 32.50' S = 1.01%
WS-CB-21	262.13		15" HDPE TO WS-CB-22 INV OUT = 258.77 L = 31.74' S = 1.02%
WS-CB-22	262.22	15" HDPE FROM WS-CB-19 INV IN = 258.06 L = 139.66' S = 10.01% 15" HDPE FROM WS-CB-21 INV IN = 258.42 L = 31.74' S = 1.02%	15" HDPE TO WS-CB-23 INV OUT = 256.06 L = 124.55' S = 10.04%
WS-CB-23	247.01	15" HDPE FROM WS-CB-22 INV IN = 243.15 L = 124.55' S = 10.04% 15" HDPE FROM WS-CB-24 INV IN = 243.39 L = 32.82' S = 0.98%	15" HDPE TO WS-CB-26 INV OUT = 241.65 L = 85.47' S = 9.97%
WS-CB-24	247.10		15" HDPE TO WS-CB-23 INV OUT = 243.74 L = 32.82' S = 0.98%
WS-CB-25	237.01		15" HDPE TO WS-CB-26 INV OUT = 233.65 L = 35.03' S = 2.37%
WS-CB-26	236.99	15" HDPE FROM WS-CB-23 INV IN = 232.75 L = 85.47' S = 9.97% 15" HDPE FROM WS-CB-25 INV IN = 232.75 L = 35.03' S = 2.37%	18" HDPE TO SWP-1-ES-1 INV OUT = 232.50 L = 124.65' S = 1.60%
WS-CB-27	219.99	24" HDPE FROM WS-CB-28 INV IN = 215.50 L = 49.46' S = 1.13%	24" HDPE TO WS-ES-1 INV OUT = 215.00 L = 39.38' S = 1.22%
WS-CB-28	220.11	15" CORRUGATED HDPE PIPE FROM SWP-1-OS-1 INV IN = 216.50 L = 114.83' S = 13.24%	24" HDPE TO WS-CB-27 INV OUT = 216.10 L = 49.46' S = 1.13%
WS-DMH-1	353.41	15" HDPE FROM WS-CB-3 INV IN = 348.98 L = 116.83' S = 1.40%	15" HDPE TO WS-CB-6 INV OUT = 348.98 L = 94.81' S = 0.99%
WS-DMH-3	347.00	15" HDPE FROM WS-CB-9 INV IN = 342.79 L = 53.10' S = 1.26%	15" HDPE TO WS-DMH-5 INV OUT = 342.79 L = 161.70' S = 3.95%
WS-DMH-4	333.45	15" HDPE FROM WS-CB-12 INV IN = 327.68 L = 72.11' S = 2.41%	15" HDPE TO WS-DMH-5 INV OUT = 327.68 L = 177.62' S = 1.00%
WS-DMH-5	340.49	15" HDPE FROM WS-DMH-3 INV IN = 336.25 L = 161.70' S = 3.95% 15" HDPE FROM WS-DMH-4 INV IN = 325.86 L = 177.62' S = 1.00%	15" HDPE TO INF-1-DIV MH-1 INV OUT = 336.25 L = 282.69' S = 4.06%
WS-ES-1		24" HDPE FROM WS-CB-27 INV IN = 215.00 L = 39.38' S = 1.22%	

SEWER MAIN NOTE:
REFER TO ROAD PROFILES FOR SEWER MAIN DIAMETERS AND PIPE MATERIALS.

WATERMAIN UTILITY CROSSINGS NOTE:
10' MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION DISTANCES HAVE BEEN MAINTAINED TO THE GREATEST EXTENT POSSIBLE. IN THE EVENT UNFORESEEN CIRCUMSTANCES ARE ENCOUNTERED IN THE FIELD DURING THE WATERMAIN INSTALLATION, WATERMAIN ENCASEMENT WILL BE UTILIZED IN ACCORDANCE WITH WATER MAIN / WATER SERVICE / SANITARY SEWER- DRAINAGE PIPE ENCASEMENT DETAIL (SEE DETAIL SHEET). PRIOR ENCASEMENT OF WATERMAIN, WESTCHESTER COUNTY HEALTH DEPARTMENT (WCHD) WILL BE NOTIFIED OF THE FIELD CHANGE.

PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

DRAINAGE LEGEND

- CP = CENTRAL PARKING LOT
- CS = CROSS STREET
- EP = EAST PARKING LOT
- HD= HOTEL DRIVE
- MS= MAIN STREET
- NP= NORTH PARKING LOT
- WP= WEST PARKING LOT
- WS= WEST STREET
- INF= INFILTRATION SYSTEM
- SWP= STORMWATER POND
- DIV MH = DIVERSION MANHOLE
- ES = END SECTION
- HW = HEADWALL
- CB = CATCH BASIN
- DMH = DRAIN MANHOLE

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

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REVISIONS					
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK · TIMOTHY S. ALLEN · 073434 · LICENSED PROFESSIONAL ENGINEER

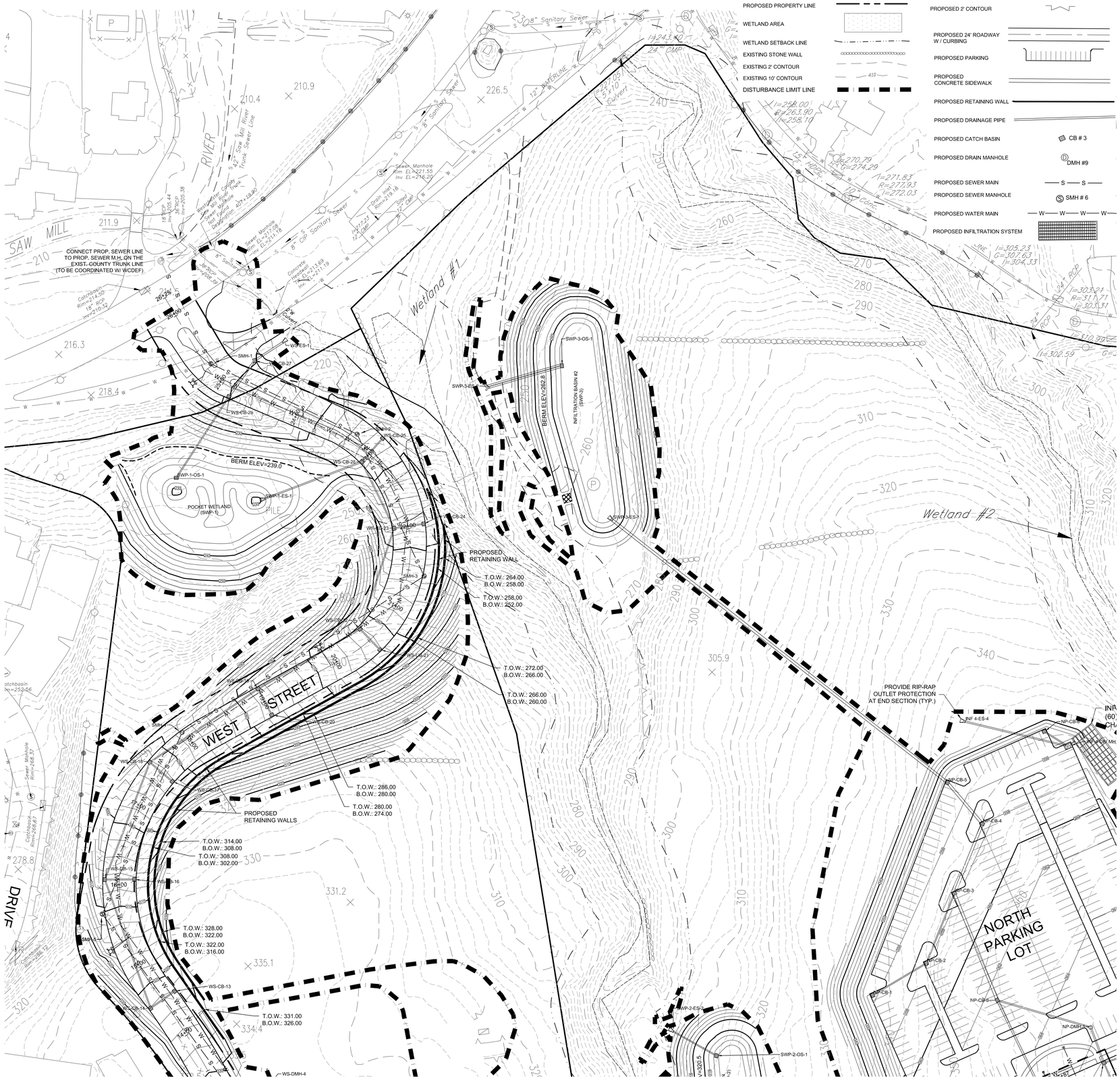
TIMOTHY S. ALLEN, P.E.

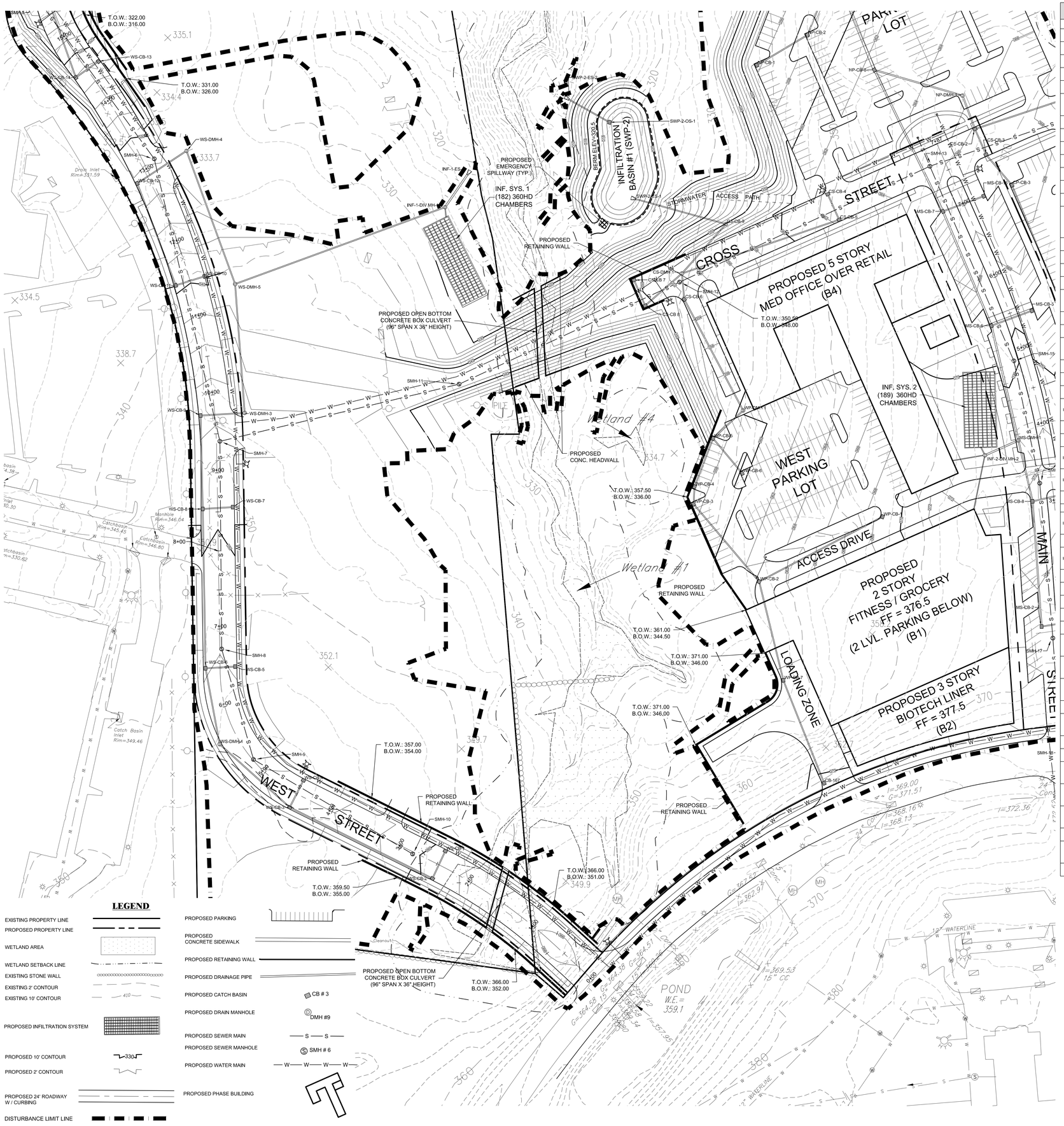
GRADING PLAN EAST - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

DATE:	JUNE 14, 2019
SCALE:	1" = 50'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	5 OF 18
DWG NO.	GP-2

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805


LEGEND
EXISTING PROPERTY LINE
PROPOSED PROPERTY LINE
WETLAND AREA
WETLAND SETBACK LINE
EXISTING STONE WALL
EXISTING 2' CONTOUR
EXISTING 10' CONTOUR
DISTURBANCE LIMIT LINE
PROPOSED 10' CONTOUR
PROPOSED 2' CONTOUR
PROPOSED 24' ROADWAY W / CURBING
PROPOSED PARKING
PROPOSED CONCRETE SIDEWALK
PROPOSED RETAINING WALL
PROPOSED DRAINAGE PIPE
PROPOSED CATCH BASIN
CB # 3
PROPOSED DRAIN MANHOLE
DMH #9
PROPOSED SEWER MAIN
PROPOSED SEWER MANHOLE
SMH # 6
PROPOSED WATER MAIN
PROPOSED INFILTRATION SYSTEM
CONNECT PROP. SEWER LINE TO PROP. SEWER M.H. ON THE EXIST. COUNTY TRUNK LINE (TO BE COORDINATED W/ WCDEF)
Wetland #1
Wetland #2
BERM ELEV=239.0
BERM ELEV=262.8
INFILTRATION BASIN #2 (INF-4)
POCKET WETLAND (SWP-1)
PROPOSED RETAINING WALL
T.O.W.: 264.00 B.O.W.: 258.00
T.O.W.: 258.00 B.O.W.: 252.00
T.O.W.: 272.00 B.O.W.: 266.00
T.O.W.: 266.00 B.O.W.: 260.00
T.O.W.: 286.00 B.O.W.: 280.00
T.O.W.: 280.00 B.O.W.: 274.00
PROPOSED RETAINING WALLS
T.O.W.: 314.00 B.O.W.: 308.00
T.O.W.: 308.00 B.O.W.: 302.00
T.O.W.: 328.00 B.O.W.: 322.00
T.O.W.: 322.00 B.O.W.: 316.00
T.O.W.: 331.00 B.O.W.: 326.00
PROVIDE RIP-RAP OUTLET PROTECTION AT END SECTION (TYP.)
NORTH PARKING LOT
WEST STREET
SAW MILL RIVER
42" Saw Mill River Trunk Sewer Line
8" Sanitary Sewer
8" CIP Sanitary Sewer
24" RCP
12" HDPE
12" Culvert
Sewer Manhole Rim EL=221.55 Inv EL=216.29
Sewer Manhole Rim EL=213.69 Inv EL=211.19
Catchbasin Rim=214.20 Inv=210.32
Catchbasin Rim=214.18 Inv=210.38
Catchbasin Rim=214.44 Inv=205.44
Catchbasin Rim=214.38 Inv=205.38
Catchbasin Rim=214.16 Inv=210.66
Catchbasin Rim=214.23 Inv=210.73
Catchbasin Rim=214.25 Inv=210.75
Catchbasin Rim=214.19 Inv=211.19
Catchbasin Rim=252.46
Catchbasin Rim=286.37
Catchbasin Rim=286.47
Catchbasin Rim=286.12
Recharge Basin Park
Storm Sewer Manhole
Storm Sewer Manhole
Storm Sewer Manhole
Drain Inlet Rim=216.16
Drain Inlet Rim=215.78
Drain Inlet Rim=215.23
Drain Inlet Rim=211.78
Drain Inlet Rim=211.69
Drain Inlet Rim=211.72
Drain Inlet Rim=211.76
Drain Inlet Rim=211.79
Drain Inlet Rim=211.82
Drain Inlet Rim=211.85
Drain Inlet Rim=211.88
Drain Inlet Rim=211.91
Drain Inlet Rim=211.94
Drain Inlet Rim=211.97
Drain Inlet Rim=212.00
Drain Inlet Rim=212.03
Drain Inlet Rim=212.06
Drain Inlet Rim=212.09
Drain Inlet Rim=212.12
Drain Inlet



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR (410)
- PROPOSED INFILTRATION SYSTEM
- PROPOSED 10' CONTOUR (330)
- PROPOSED 2' CONTOUR
- PROPOSED 24' ROADWAY W / CURBING
- DISTURBANCE LIMIT LINE
- PROPOSED PARKING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN (CB # 3)
- PROPOSED DRAIN MANHOLE (DMH #9)
- PROPOSED SEWER MAIN (S — S)
- PROPOSED SEWER MANHOLE (SMH # 6)
- PROPOSED WATER MAIN (W — W — W — W)
- PROPOSED PHASE BUILDING

DRAINAGE SCHEDULE

NAME:	RIM ELEV:	PIPES IN:	PIPES OUT:
CB-167	371.03		15" CORRUGATED HDPE PIPE TO WP-CB-7 INV OUT = 362.00 L = 137.59' S = 1.41%
CP-CB-1	373.33		15" HDPE TO CP-CB-2 INV OUT = 368.50 L = 206.84' S = 1.00%
CP-CB-2	369.97	15" HDPE FROM CP-CB-1 INV IN = 366.39 L = 206.84' S = 1.00%	15" HDPE TO CP-CB-3 INV OUT = 366.39 L = 176.63' S = 1.25%
CP-CB-3	367.43	15" HDPE FROM CP-CB-2 INV IN = 364.13 L = 176.63' S = 1.25%	15" HDPE TO CS-CB-3 INV OUT = 364.13 L = 47.63' S = 1.00%
CS-CB-1	370.20		15" HDPE TO CS-CB-2 INV OUT = 366.00 L = 153.53' S = 1.90%
CS-CB-2	366.44	15" HDPE FROM CS-CB-3 INV IN = 362.75 L = 32.75' S = 2.44% 15" HDPE FROM CS-CB-1 INV IN = 363.00 L = 153.53' S = 1.90%	18" HDPE TO NP-DMH-1 INV OUT = 362.50 L = 42.28' S = 3.25%
CS-CB-3	366.64	15" HDPE FROM CP-CB-3 INV IN = 363.62 L = 47.63' S = 1.00%	15" HDPE TO CS-CB-2 INV OUT = 363.62 L = 32.75' S = 2.44%
CS-CB-4	362.27		15" HDPE TO CS-CB-5 INV OUT = 358.75 L = 32.86' S = 1.00%
CS-CB-5	362.27	15" HDPE FROM CS-CB-4 INV IN = 358.39 L = 32.86' S = 1.00%	15" HDPE TO CS-DMH 1 INV OUT = 358.75 L = 209.24' S = 5.60%
CS-CB-9	350.32	15" HDPE FROM CS-DMH 1 INV IN = 341.11 L = 80.86' S = 2.89%	15" HDPE TO SWP-2-ES-1 INV OUT = 341.11 L = 121.39' S = 22.54%
CS-CB 6	352.43	15" HDPE FROM WP-DMH 1 INV IN = 349.37 L = 157.00' S = 2.00%	15" HDPE TO CS-DMH 1 INV OUT = 349.37 L = 28.76' S = 4.50%
CS-CB 7	348.91		15" HDPE TO CS-CB 8 INV OUT = 346.06 L = 32.71' S = 1.00%
CS-CB 8	349.71	15" HDPE FROM CS-CB 7 INV IN = 345.70 L = 32.71' S = 1.00%	15" HDPE TO CS-DMH 1 INV OUT = 345.70 L = 58.44' S = 1.00%
CS-DMH 1	352.91	15" HDPE FROM CS-CB-5 INV IN = 346.62 L = 209.24' S = 5.60% 15" HDPE FROM CS-CB 6 INV IN = 346.62 L = 28.76' S = 4.50% 15" HDPE FROM CS-CB 8 INV IN = 345.07 L = 58.44' S = 1.00%	15" HDPE TO CS-CB-9 INV OUT = 343.56 L = 80.86' S = 2.89%
EP-CB-1	391.88		15" HDPE TO EP-CB-2 INV OUT = 388.69 L = 126.30' S = 1.00%
EP-CB-2	390.57	15" HDPE FROM EP-CB-1 INV IN = 387.38 L = 126.30' S = 1.00%	15" HDPE TO EP-CB-3 INV OUT = 387.38 L = 105.13' S = 3.27%
EP-CB-3	388.19	15" HDPE FROM EP-CB-2 INV IN = 383.83 L = 105.13' S = 3.27%	15" HDPE TO EP-CB-4 INV OUT = 383.83 L = 122.75' S = 1.00%
EP-CB-4	386.45	15" HDPE FROM EP-CB-3 INV IN = 382.58 L = 122.75' S = 1.00%	15" HDPE TO EP-CB-5 INV OUT = 382.59 L = 131.31' S = 1.00%
EP-CB-5	384.69	15" HDPE FROM EP-CB-6 INV IN = 381.30 L = 22.59' S = 1.10% 15" HDPE FROM EP-CB-4 INV IN = 381.25 L = 131.31' S = 1.00%	15" HDPE TO INF-3-DIV MH-3 INV OUT = 381.25 L = 71.52' S = 1.00%
EP-CB-6	385.96		15" HDPE TO EP-CB-5 INV OUT = 381.60 L = 22.59' S = 1.10%
HD-CB-1	393.00	24" HDPE FROM INF-9-DIV MH-9 INV IN = 386.00 L = 108.69' S = 1.77%	15" HDPE TO HD-CB-2 INV OUT = 389.33 L = 17.56' S = 1.61%
HD-CB-2	393.00	15" HDPE FROM HD-CB-3 INV IN = 380.50 L = 197.57' S = 0.99% 15" HDPE FROM HD-CB-1 INV IN = 389.00 L = 17.56' S = 1.61%	15" HDPE TO SWP-4-ES-1 INV OUT = 380.50 L = 89.63' S = 9.27%
HD-CB-3	391.50		15" HDPE TO HD-CB-2 INV OUT = 382.50 L = 197.57' S = 0.99%
HD-CB-4	391.00		12" CORRUGATED HDPE PIPE TO INF-9-DIV MH-9 INV OUT = 388.50 L = 21.48' S = 1.90%
INF-1		12" CORRUGATED HDPE PIPE FROM INF-1-DIV MH-1 INV IN = 323.00 L = 8.16' S = 0.00%	
INF-1-DIV MH-1	327.13	15" HDPE FROM WS-DMH-5 INV IN = 324.62 L = 282.69' S = 4.06%	24" CORRUGATED HDPE PIPE TO INF-1-ES-1 INV OUT = 323.00 L = 51.16' S = 5.87% 12" CORRUGATED HDPE PIPE TO INF-1 INV OUT = 323.00 L = 8.16' S = 0.00%
INF-1-ES-1		24" CORRUGATED HDPE PIPE FROM INF-1-DIV MH-1 INV IN = 320.00 L = 51.16' S = 5.87%	
INF-2		12" CORRUGATED HDPE PIPE FROM INF-2-DIV MH-2 INV IN = 360.50 L = 10.05' S = 0.00%	
INF-2-DIV MH-2	371.26		12" CORRUGATED HDPE PIPE TO INF-2 INV OUT = 360.50 L = 10.05' S = 0.00% 24" CORRUGATED HDPE PIPE TO MS-DMH-1 INV OUT = 363.00 L = 44.88' S = 1.07%
INF-3-DIV MH-3	384.55	15" HDPE FROM EP-CB-5 INV IN = 380.48 L = 71.52' S = 1.00%	24" HDPE TO INF-3-ES-3 INV OUT = 378.00 L = 48.14' S = 2.00% 12" CORRUGATED HDPE PIPE TO INV OUT = 378.00 L = 24.29' S = 0.00%
INF-3-ES-3		24" HDPE FROM INF-3-DIV MH-3 INV IN = 377.00 L = 48.14' S = 2.00%	
INF-4			
INF-4-DIV MH 4	356.00	36" HDPE FROM INV IN = 345.00 L = 0.91' S = 27.77% 15" HDPE FROM NP-CB-6 INV IN = 347.50 L = 28.27' S = 7.40%	12" CORRUGATED HDPE PIPE TO INV OUT = 346.50 L = 7.94' S = 0.00% 18" HDPE TO INF-4-ES-4 INV OUT = 347.50 L = 125.82' S = 2.73%
INF-9		12" CORRUGATED HDPE PIPE FROM INF-9-DIV MH-9 INV IN = 388.00 L = 14.88' S = 0.00%	
INF-9-DIV MH-9	392.00	12" CORRUGATED HDPE PIPE FROM HD-CB-4 INV IN = 388.00 L = 21.48' S = 1.90%	24" HDPE TO HD-CB-1 INV OUT = 388.00 L = 108.69' S = 1.77% 12" CORRUGATED HDPE PIPE TO INF-9 INV OUT = 388.00 L = 14.88' S = 0.00%
INF 4-ES-4		18" HDPE FROM INF-4-DIV MH 4 INV IN = 344.00 L = 125.82' S = 2.73%	
MS-CB-1	375.54		15" HDPE TO MS-CB-2 INV OUT = 372.21 L = 52.65' S = 1.00%
MS-CB-2	375.01	15" HDPE FROM MS-CB-1 INV IN = 371.66 L = 52.65' S = 1.00%	18" HDPE TO MS-CB-8 INV OUT = 371.41 L = 156.87' S = 2.00%
MS-CB-3	372.25		15" HDPE TO MS-CB-8 INV OUT = 368.89 L = 52.58' S = 1.00%
MS-CB-5	368.96		15" HDPE TO MS-CB-6 INV OUT = 365.76 L = 52.20' S = 2.29%
MS-CB-6	368.08	15" HDPE FROM MS-CB-5 INV IN = 364.50 L = 52.20' S = 2.29% 24" CORRUGATED HDPE PIPE FROM MS-DMH-1 INV IN = 360.50 L = 150.84' S = 1.33%	24" CORRUGATED HDPE PIPE TO MS-CB-7 INV OUT = 360.50 L = 159.08' S = 1.26%
MS-CB-7	365.73	24" CORRUGATED HDPE PIPE FROM MS-CB-6 INV IN = 358.50 L = 159.08' S = 1.26% 15" HDPE FROM MS-CB-16 INV IN = 362.00 L = 52.73' S = 1.80%	24" CORRUGATED HDPE PIPE TO NP-CB-8 INV OUT = 358.50 L = 199.43' S = 1.74%
MS-CB-8	372.14	15" HDPE FROM MS-CB-3 INV IN = 368.34 L = 52.58' S = 1.00% 18" HDPE FROM MS-CB-2 INV IN = 368.19 L = 156.87' S = 2.00%	18" HDPE TO MS-DMH-1 INV OUT = 368.19 L = 76.23' S = 3.36%
MS-CB-16	366.41		15" HDPE TO MS-CB-7 INV OUT = 363.00 L = 52.73' S = 1.80%
MS-DMH-1	370.49	18" HDPE FROM MS-CB-8 INV IN = 365.50 L = 76.23' S = 3.36% 24" CORRUGATED HDPE PIPE FROM INF-2-DIV MH-2 INV IN = 362.50 L = 44.88' S = 1.07%	24" CORRUGATED HDPE PIPE TO MS-CB-6 INV OUT = 362.50 L = 150.84' S = 1.33%
NP-CB-1	355.95		15" HDPE TO NP-CB-2 INV OUT = 352.50 L = 72.43' S = 1.00%
NP-CB-2	357.90	15" HDPE FROM NP-CB-1 INV IN = 351.75 L = 72.43' S = 1.00%	15" HDPE TO NP-CB-3 INV OUT = 351.75 L = 86.34' S = 1.00%
NP-CB-3	358.06	36" HDPE FROM NP-CB-8 INV IN = 349.09 L = 135.81' S = 4.25% 15" HDPE FROM NP-CB-2 INV IN = 350.84 L = 86.34' S = 1.00%	36" HDPE TO NP-CB-4 INV OUT = 349.09 L = 86.76' S = 0.60%
NP-CB-4	357.99	36" HDPE FROM NP-CB-5 INV IN = 350.30 L = 61.01' S = 1.00% 36" HDPE FROM NP-CB-3 INV IN = 348.84 L = 86.76' S = 0.60%	
NP-CB-5	355.66		36" HDPE TO NP-CB-4 INV OUT = 350.95 L = 61.01' S = 1.00% 36" HDPE TO SWP-3-ES-1 INV OUT = 336.00 L = 513.82' S = 3.11%
NP-CB-6	354.36		15" HDPE TO INF-4-DIV MH 4 INV OUT = 350.00 L = 28.27' S = 7.40%
NP-CB-8	362.20	18" HDPE FROM NP-DMH-1 INV IN = 357.44 L = 113.67' S = 3.04% 24" CORRUGATED HDPE PIPE FROM MS-CB-7 INV IN = 355.00 L = 199.43' S = 1.74%	36" HDPE TO NP-CB-3 INV OUT = 355.00 L = 135.81' S = 4.25%
NP-DMH-1	365.70	18" HDPE FROM CS-CB-2 INV IN = 361.01 L = 42.26' S = 3.25%	18" HDPE TO NP-CB-8 INV OUT = 361.01 L = 113.67' S = 3.04%

DRAINAGE SCHEDULE

NAME:	RIM ELEV:	PIPES IN:	PIPES OUT:
SWP-1-ES-1		18" HDPE FROM WS-CB-26 INV IN = 230.49 L = 124.65' S = 1.60%	
SWP-1-OS-1	238.00		15" CORRUGATED HDPE PIPE TO WS-CB-28 INV OUT = 232.00 L = 114.83' S = 13.24%
SWP-2-ES-1		15" HDPE FROM CS-CB-9 INV IN = 314.00 L = 121.39' S = 22.54%	
SWP-2-ES-2		15" HDPE FROM SWP-2-OS-1 INV IN = 304.00 L = 58.61' S = 6.67%	
SWP-2-OS-1	319.50		15" HDPE TO SWP-2-ES-2 INV OUT = 308.00 L = 58.61' S = 6.67%
SWP-3-ES-1		36" HDPE FROM NP-CB-5 INV IN = 320.00 L = 513.82' S = 3.11%	
SWP-3-ES-2		24" CORRUGATED HDPE PIPE FROM SWP-3-OS-1 INV IN = 236.89 L = 93.11' S = 10.88% 24" HDPE FROM SWP-3-OS-1 INV IN = 238.94 L = 92.38' S = 9.95%	
SWP-3-OS-1	256.28		24" HDPE TO SWP-3-ES-2 INV OUT = 248.22 L = 92.38' S = 9.95% 24" CORRUGATED HDPE PIPE TO SWP-3-ES-2 INV OUT = 246.98 L = 93.11' S = 10.88%
SWP-4-ES-1		15" HDPE FROM HD-CB-2 INV IN = 372.00 L = 89.63' S = 9.27%	
SWP-4-ES-2		30" HDPE FROM INV IN = 372.00 L = 235.44' S = 3.61%	
WP-CB-1	368.65		15" HDPE TO WP-CB-2 INV OUT = 365.31 L = 173.73' S = 4.10%
WP-CB-2	361.50	15" CORRUGATED HDPE PIPE FROM WP-CB-7 INV IN = 355.30 L = 125.70' S = 3.61% 15" HDPE FROM WP-CB-1 INV IN = 358.00 L = 173.73' S = 4.10%	15" HDPE TO WP-CB-3 INV OUT = 355.30 L = 126.29' S = 1.00%
WP-CB-3	357.64	15" HDPE FROM WP-CB-2 INV IN = 354.00 L = 126.29' S = 1.00%	15" HDPE TO WP-CB-4 INV OUT = 354.00 L = 17.76' S = 1.00%
WP-CB-4	357.50	15" HDPE FROM WP-CB-3 INV IN = 353.78 L = 17.76' S = 1.00%	15" HDPE TO WP-CB-5 INV OUT = 353.78 L = 62.31' S = 1.00%
WP-CB-5	357.50	15" HDPE FROM WP-CB-6 INV IN = 353.25 L = 54.34' S = 1.29% 15" HDPE FROM WP-CB-4 INV IN = 353.12 L = 62.31' S = 1.00%	15" HDPE TO WP-DMH 1 INV OUT = 353.12 L = 48.29' S = 1.00%
WP-CB-6	359.50		15" HDPE TO WP-CB-5 INV OUT = 354.00 L = 54.34' S = 1.29%
WP-CB-7	362.86	15" CORRUGATED HDPE PIPE FROM CB-167 INV IN = 360.00 L = 137.59' S = 1.41%	15" CORRUGATED HDPE PIPE TO WP-CB-2 INV OUT = 360.00 L = 125.70' S = 3.61%
WP-DMH 1	360.20	15" HDPE FROM WP-CB-5 INV IN = 352.59 L = 48.29' S = 1.00%	15" HDPE TO CS-CB 6 INV OUT = 352.59 L = 157.00' S = 2.00%
WS-CB-1	360.55		15" HDPE TO WS-CB-2 INV OUT = 357.19 L = 35.78' S = 1.00%
WS-CB-2	360.59	15" HDPE FROM WS-CB-1 INV IN = 356.80 L = 35.78' S = 1.00%	15" HDPE TO WS-CB-3 INV OUT = 356.80 L = 200.44' S = 3.00%
WS-CB-3	354.41	15" HDPE FROM WS-CB-2 INV IN = 350.67 L = 200.44' S = 3.00% 15" HDPE FROM WS-CB-4 INV IN = 350.67 L = 35.80' S = 1.00%	15" HDPE TO WS-DMH-1 INV OUT = 350.67 L = 116.83' S = 1.40%
WS-CB-4	354.42		15" HDPE TO WS-CB-3 INV OUT = 351.06 L = 35.80' S = 1.00%
WS-CB-5	351.81		15" HDPE TO WS-CB-6 INV OUT = 348.45 L = 35.00' S = 1.20%
WS-CB-6	351.84	15" HDPE FROM WS-DMH-1 INV IN = 348.00 L = 94.81' S = 0.99% 15" HDPE FROM WS-CB-5 INV IN = 348.00 L = 35.00' S = 1.20%	15" HDPE TO WS-CB-8 INV OUT = 348.00 L = 200.11' S = 1.00%
WS-CB-7	371.00		15" HDPE TO WS-CB-8 INV OUT = 345.90 L = 35.56' S = 1.00%
WS-CB-8	349.29	15" HDPE FROM WS-CB-6 INV IN = 345.96 L = 200.11' S = 1.00% 15" HDPE FROM WS-CB-7 INV IN = 345.51 L = 35.56' S = 1.00%	15" HDPE TO WS-CB-9 INV OUT = 345.51 L = 115.77' S = 1.65%
WS-CB-9	347.25	15" HDPE FROM WS-CB-8 INV IN = 343.53 L = 115.77' S = 1.65%	15" HDPE TO WS-DMH-3 INV OUT = 343.50 L = 53.10' S = 1.26%
WS-CB-10	339.45		15" HDPE TO WS-CB-11 INV OUT = 336.08 L = 35.76' S = 1.01%
WS-CB-11	339.50	15" HDPE FROM WS-CB-10 INV IN = 335.68 L = 35.76' S = 1.01%	15" HDPE TO WS-CB-12 INV OUT = 363.00 L = 135.75' S = 3.94%
WS-CB-12	332.43	15" HDPE FROM WS-CB-11 INV IN = 329.55 L = 135.75' S = 3.94%	15" HDPE TO WS-DMH-4 INV OUT = 329.50 L = 72.11' S = 2.41%
WS-CB-13	322.08		15" HDPE TO WS-CB-14 INV OUT = 318.72 L = 32.58' S = 1.00%
WS-CB-14	322.06	15" HDPE FROM WS-CB-13 INV IN = 318.36 L = 32.58' S = 1.00%	15" HDPE TO WS-CB-15 INV OUT = 317.69 L = 161.74' S = 9.99%
WS-CB-15	306.48	15" HDPE FROM WS-CB-14 INV IN = 301.20 L = 161.74' S = 9.99% 15" HDPE FROM WS-CB-16 INV IN = 302.64 L = 32.55' S = 1.00%	15" HDPE TO WS-CB-18 INV OUT = 301.20 L = 148.08' S = 8.99%
WS-CB-16	306.35		15" HDPE TO WS-CB-15 INV OUT = 302.99 L = 32.55' S = 1.00%
WS-CB-17	292.21		15" HDPE TO WS-CB-18 INV OUT = 288.85 L = 32.67' S = 1.00%
WS-CB-18	292.22	15" HDPE FROM WS-CB-15 INV IN = 287.56 L = 148.08' S = 8.99% 15" HDPE FROM WS-CB-17 INV IN = 288.50 L = 32.67' S = 1.00%	15" HDPE TO WS-CB-19 INV OUT = 287.56 L = 154.74' S = 8.99%
WS-CB-19	276.94	15" HDPE FROM WS-CB-18 INV IN = 273.36 L = 154.74' S = 8.99% 15" HDPE FROM WS-CB-20 INV IN = 273.29 L = 32.55' S = 1.01%	15" HDPE TO WS-CB-22 INV OUT = 272.36 L = 139.66' S = 10.01%
WS-CB-20	277.01		15" HDPE TO WS-CB-19 INV OUT = 273.65 L = 32.55' S = 1.01%
WS-CB-21	262.13		15" HDPE TO WS-CB-22 INV OUT = 258.77 L = 31.74' S = 1.02%
WS-CB-22	262.22	15" HDPE FROM WS-CB-19 INV IN = 258.06 L = 139.66' S = 10.01% 15" HDPE FROM WS-CB-21 INV IN = 258.42 L = 31.74' S = 1.02%	15" HDPE TO WS-CB-23 INV OUT = 256.06 L = 124.55' S = 10.04%
WS-CB-23	247.01	15" HDPE FROM WS-CB-22 INV IN = 243.15 L = 124.55' S = 10.04% 15" HDPE FROM WS-CB-24 INV IN = 243.39 L = 32.82' S = 0.98%	15" HDPE TO WS-CB-26 INV OUT = 241.65 L = 85.47' S = 9.97%
WS-CB-24	247.10		15" HDPE TO WS-CB-23 INV OUT = 243.74 L = 32.82' S = 0.98%
WS-CB-25	237.01		15" HDPE TO WS-CB-26 INV OUT = 233.65 L = 35.03' S = 2.37%
WS-CB-26	236.99	15" HDPE FROM WS-CB-23 INV IN = 232.75 L = 85.47' S = 9.97% 15" HDPE FROM WS-CB-25 INV IN = 232.75 L = 35.03' S = 2.37%	18" HDPE TO SWP-1-ES-1 INV OUT = 232.50 L = 124.65' S = 1.60%
WS-CB-27	219.99	24" HDPE FROM WS-CB-28 INV IN = 215.50 L = 49.46' S = 1.13%	24" HDPE TO WS-ES-1 INV OUT = 215.50 L = 39.38' S = 1.22%
WS-CB-28	220.11	15" CORRUGATED HDPE PIPE FROM SWP-1-OS-1 INV IN = 216.00 L = 114.83' S = 13.24%	24" HDPE TO WS-CB-27 INV OUT = 216.10 L = 49.46' S = 1.13%
WS-DMH-1	353.41	15" HDPE FROM WS-CB-3 INV IN = 348.98 L = 116.83' S = 1.40%	15" HDPE TO WS-CB-6 INV OUT = 348.98 L = 94.81' S = 0.99%
WS-DMH-3	347.00	15" HDPE FROM WS-CB-9 INV IN = 342.79 L = 53.10' S = 1.26%	15" HDPE TO WS-DMH-5 INV OUT = 342.79 L = 161.70' S = 3.95%
WS-DMH-4	333.45	15" HDPE FROM WS-CB-12 INV IN = 327.68 L = 72.11' S = 2.41%	15" HDPE TO WS-DMH-5 INV OUT = 327.68 L = 177.62' S = 1.00%
WS-DMH-5	340.49	15" HDPE FROM WS-DMH-3 INV IN = 336.25 L = 161.70' S = 3.95% 15" HDPE FROM WS-DMH-4 INV IN = 325.86 L = 177.62' S = 1.00%	15" HDPE TO INF-1-DIV MH-1 INV OUT = 336.25 L = 282.69' S = 4.06%
WS-ES-1		24" HDPE FROM WS-CB-27 INV IN = 215.00 L = 39.38' S = 1.22%	

DRAINAGE LEGEND

CP = CENTRAL PARKING LOT	INF= INFILTRATION SYSTEM
CS = CROSS STREET	SWP= STORMWATER POND
EP = EAST PARKING LOT	DIV MH = DIVERSION MANHOLE
HD= HOTEL DRIVE	ES = END SECTION
MS= MAIN STREET	HW = HEADWALL
NP= NORTH PARKING LOT	CB = CATCH BASIN
WP= WEST PARKING LOT	DMH = DRAIN MANHOLE
WS= WEST STREET	

PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

SEWER MAIN NOTE:
REFER TO ROAD PROFILES FOR SEWER MAIN DIAMETERS AND PIPE MATERIALS.

WATERMAIN UTILITY CROSSINGS NOTE:
10' MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION DISTANCES HAVE BEEN MAINTAINED TO THE GREATEST EXTENT POSSIBLE. IN THE EVENT UNFORESEEN CIRCUMSTANCES ARE ENCOUNTERED IN THE FIELD DURING THE WATERMAIN INSTALLATION, WATERMAIN ENCASEMENT WILL BE UTILIZED IN ACCORDANCE WITH WATER MAIN / WATER SERVICE / SANITARY SEWER- DRAINAGE PIPE ENCASEMENT DETAIL (SEE DETAIL SHEET). PRIOR ENCASEMENT OF WATERMAIN, WESTCHESTER COUNTY HEALTH DEPARTMENT (WCHD) WILL BE NOTIFIED OF THE FIELD CHANGE.

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 SUB-DIV. 2 OF THE NEW YORK STATE EDUCATION LAW"

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REVISIONS					
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK — TIMOTHY S. ALLEN — 073434 — LICENSED PROFESSIONAL ENGINEER

TIMOTHY S. ALLEN, P.E.

GRADING PLAN WEST - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	1" = 50'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	NG
SHT NO.	7 OF 18
DWG NO.	**GP-4**



PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

LEGEND		
COLOR	DESCRIPTION	DISTURBANCE AREA
	STEEP SLOPES (15% - 25%)	49,756 SF
	VERY STEEP SLOPES (25% - 35%)	14,150 SF
	EXCESSIVELY STEEP SLOPES (35% OR GREATER)	13,364 SF

(TREE INFORMATION AND ESTIMATED EARTHWORK WITHIN THE STEEP SLOPES CAN BE FOUND ON SHEET SS-4)

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 24' ROADWAY W / CURBING
- DISTURBANCE LIMIT LINE
- PROPOSED PARKING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED RETAINING WALL
- PROPOSED PHASE BUILDING

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DUPLICATION IS A VIOLATION OF APPLICABLE LAWS

REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS		NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS		NG
6-25-20	SEWER MAIN REVISION	NG/TA				
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

TIMOTHY S. ALLEN, P.E.

STEEP SLOPES EAST - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	1" = 50'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	8 OF 18
DWG NO.	**SS-1**


RIVER
SAW MILL
WEST STREET
DRIVE
Wetland
POCKET WETLAND (SWP-1)
INFILTRATION BASIN #2 (SWP-2)
CROSS SECTION (SEE SHEET SS-4)
PROPOSED RETAINING WALL
T.O.W.: 264.00
B.O.W.: 258.00
T.O.W.: 258.00
B.O.W.: 252.00
T.O.W.: 272.00
B.O.W.: 266.00
T.O.W.: 266.00
B.O.W.: 260.00
T.O.W.: 286.00
B.O.W.: 280.00
T.O.W.: 280.00
B.O.W.: 274.00
PROPOSED RETAINING WALLS
T.O.W.: 314.00
B.O.W.: 308.00
T.O.W.: 308.00
B.O.W.: 302.00
T.O.W.: 328.00
B.O.W.: 322.00
T.O.W.: 322.00
B.O.W.: 316.00
T.O.W.: 331.00
B.O.W.: 326.00
SMH-1
SMH-2
Sewer Manhole Rim EL=221.55 Inv EL=216.29
Sewer Manhole Rim EL=213.18 Inv EL=211.18
Concrete Headwall Rim EL=213.69 Inv. EL=211.19
Catchbasin Rim=214.50 18" RCP Inv=210.32
Catchbasin Rim=225.46
Sewer Manhole Rim=286.37
Catchbasin Rim=286.47
Catchbasin Rim=286.72
18" RCP Inv=205.44
18" RCP Inv=205.38
42" Saw Mill River Trunk Sewer Line
8" Sanitary Sewer
8" CIP Sanitary Sewer
12" WATERLINE
24" CMP
8" WATERLINE
12" Culvert
Concrete Culvert
Rim=213.16
Rim=217.23
Rim=211.76
Rim=211.19
Rim=211.42
Rim=211.69
Rim=211.78
Rim=211.69
Rim=211.78
Rim=211.69
Rim=211.78



LEGEND

COLOR	DESCRIPTION	DISTURBANCE AREA
	STEEP SLOPES (15% - 25%)	1,961 SF
	VERY STEEP SLOPES (25% - 35%)	26,471 SF
	EXCESSIVELY STEEP SLOPES (35% OR GREATER)	10,439 SF

(TREE INFORMATION AND ESTIMATED EARTHWORK WITHIN THE STEEP SLOPES CAN BE FOUND ON SHEET SS-4)

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- WETLAND AREA
- WETLAND SETBACK LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED 24' ROADWAY W / CURBING
- DISTURBANCE LIMIT LINE
- PROPOSED PARKING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED RETAINING WALL
- PROPOSED PHASE BUILDING

PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS		NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS		NG
6-25-20	SEWER MAIN REVISION	NG/TA				
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

STATE OF NEW YORK
TIMOTHY S. ALLEN
073434
LICENSED PROFESSIONAL ENGINEER

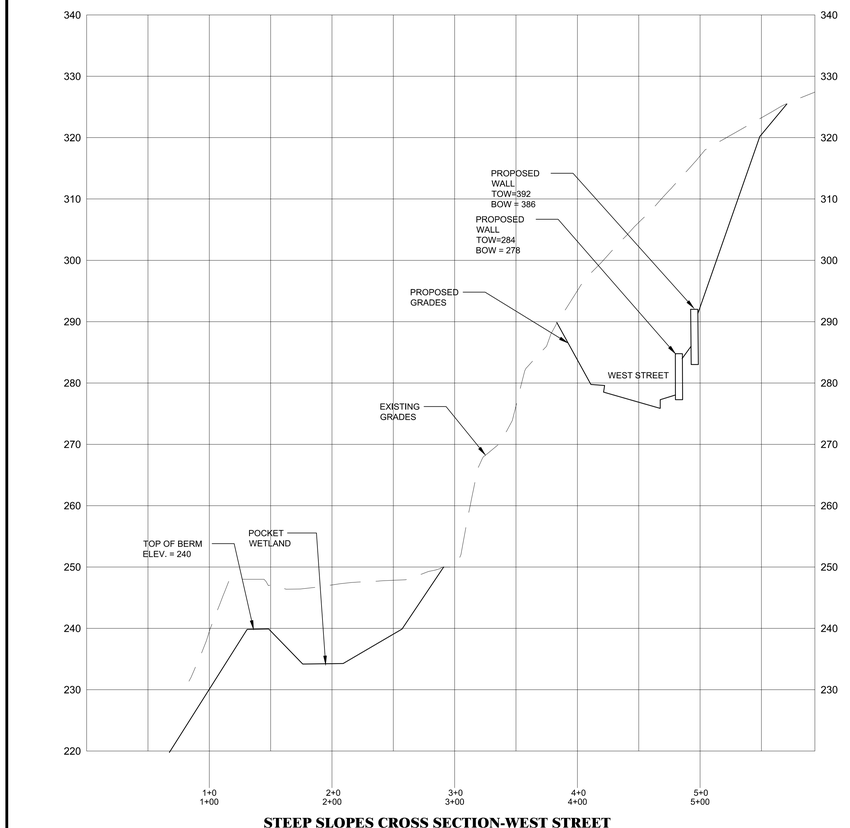
TIMOTHY S. ALLEN, P.E.

STEEP SLOPES WEST - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

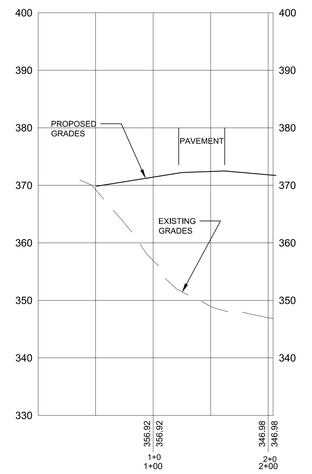
BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
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DSGN / CHK:	NG/TA
DRN. BY:	NG
SHT NO.	10 OF 18
DWG NO.	**SS-3**



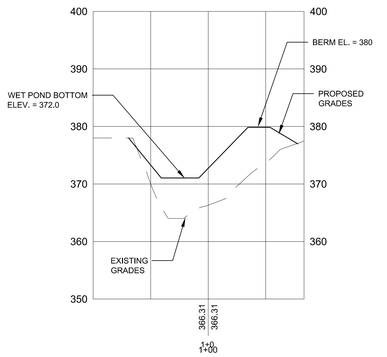
STEEP SLOPES CROSS SECTION-WEST STREET

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL



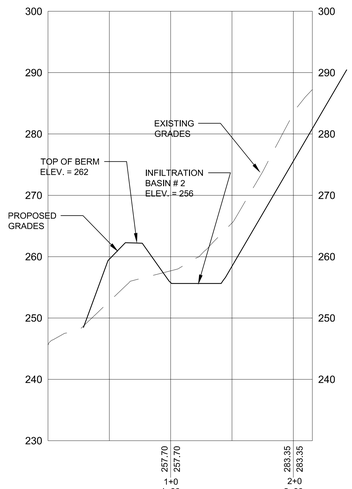
STEEP SLOPES CROSS SECTION - BUILDING B1

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL



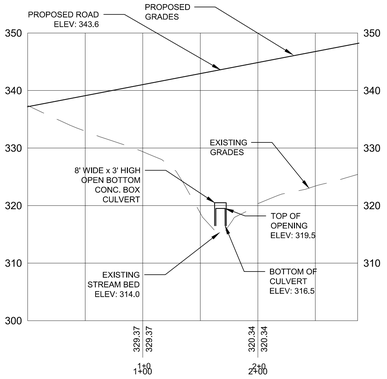
STEEP SLOPES CROSS SECTION - WET POND

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL



STEEP SLOPES CROSS SECTION - INFILTRATION BASIN # 2

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL



STEEP SLOPES CROSS SECTION - CROSS STREET

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

STEEP SLOPE EARTHWORK - WEST STREET DOWNHILL AREA
CUT: 52986 CY
FILL: 1704 CY
NET: 51282 CY EXCESS CUT

STEEP SLOPE EARTHWORK - INFILTRATION BASIN #2
CUT: 1458 CY
FILL: 1569 CY
NET: 111 CY EXCESS FILL

STEEP SLOPE EARTHWORK - WET POND
CUT: 1152 CY
FILL: 9446 CY
NET: 8344 CY EXCESS FILL

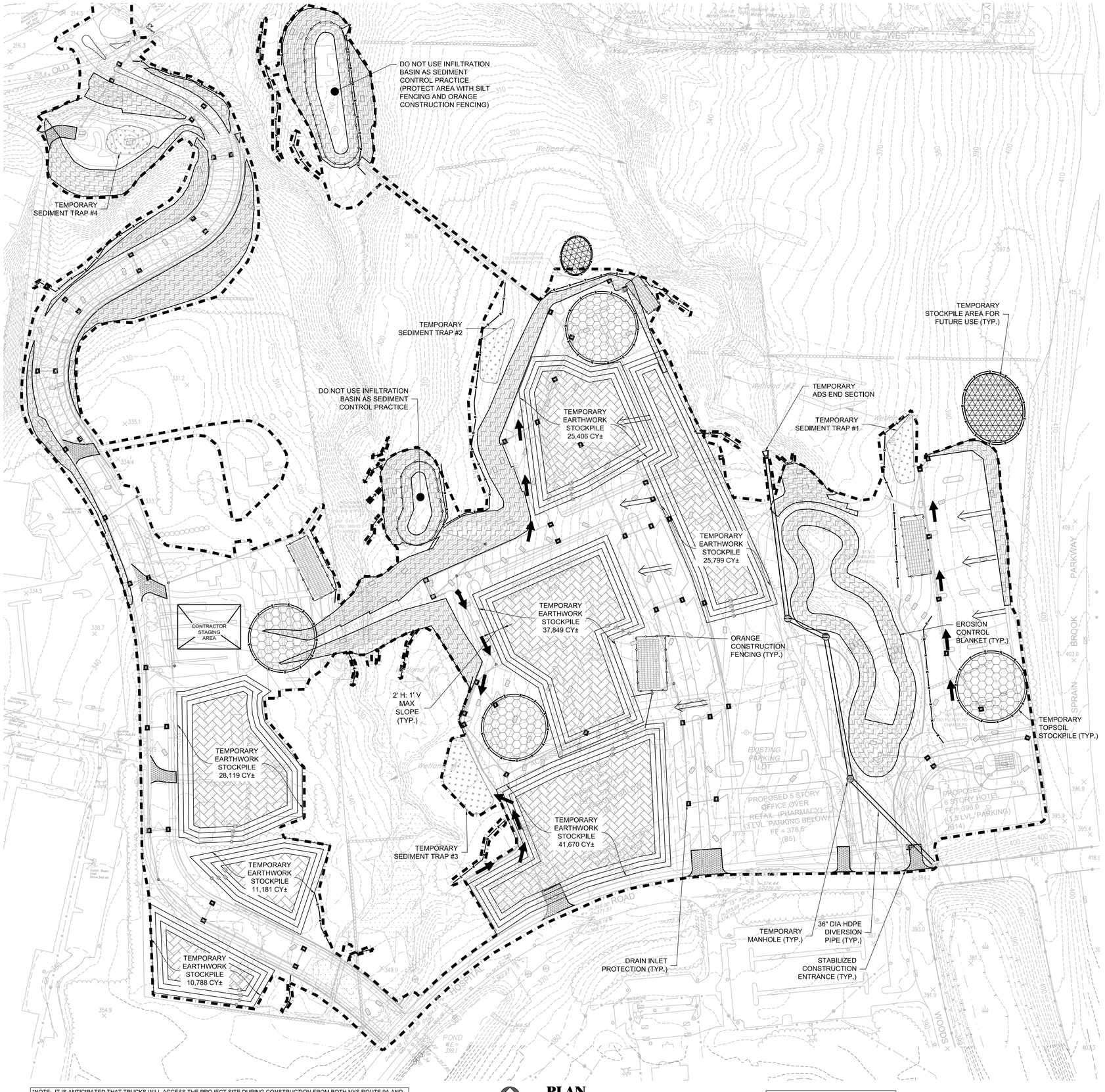
STEEP SLOPE EARTHWORK - CROSS STREET CULVERT
CUT: 0 CY
FILL: 4838 CY
NET: 4838 CY EXCESS FILL

STEEP SLOPE EARTHWORK - BUILDING B1/LOADING AREA
CUT: 0 CY
FILL: 6466 CY
NET: 6466 CY EXCESS FILL

STEEP SLOPE EARTHWORK - NORTH PARKING LOT
CUT: 0 CY
FILL: 3060 CY
NET: 3060 CY EXCESS CUT

STEEP SLOPE EARTHWORK - WEST STREET UPHILL AREA
CUT: 0 CY
FILL: 686 CY
NET: 686 CY EXCESS FILL

Tree Label Number	Tree Description	Tree size (in inches)	Status
1	Locust	16	Keep
2	Apple	10	Keep
3	Oak	12	Keep
4	Oak	10	Keep
5	Maple	10	Keep
6	Pine	10	Keep
7	Oak	15-8	TBR
8	Oak	18	TBR
9	W. Cherry	10	TBR
10	Ash	16-12	TBR
11	Oak	14	TBR
12	Maple	12	TBR
13	Maple	12	TBR
14	Maple	10	TBR
15	B. Birch	10	TBR
16	Oak	10	TBR
17	Oak	10	TBR
18	Oak	10	TBR
19	Pine	10	TBR
20	Pine	10	TBR
21	Pine	14	TBR
22	Pine	10	TBR
23	Pine	10	TBR
24	Locust	16	TBR
25	Ash	16-12	TBR
26	Oak	10	TBR
27	Oak	01	TBR
28	Oak	10-6	TBR
29	Ash	Cluster	TBR
30	Ash	10	TBR
31	Ash	10	TBR
32	Ash	10	TBR
33	Ash	16	TBR
34	Ash	10	TBR
35	Maple	16-10	TBR
36	Maple	10	TBR
37	Ash	10	TBR
38	Ash	12	TBR
39	Ash	10-8	TBR
40	Ash	10	TBR
41	Maple	10	TBR
42	Oak	12	TBR
43	Oak	10	TBR
44	Oak	10	TBR
45	Maple	10	TBR
46	Oak	24	TBR
47	Oak	12	TBR
48	Oak	12	TBR
49	Oak	24	TBR
50	Oak	22	TBR
51	Ash	10	TBR
52	Maple	12	TBR
53	Maple	10	TBR
54	Oak	10	TBR
55	Maple	10	TBR
56	Maple	18	TBR
57	W. Cherry	10	TBR
58	Maple	10	TBR
59	Pine	20	TBR
60	Pine	20	TBR
61	Pine	10	TBR
62	Pine	16	TBR
63	Oak	28	TBR
64	Pine	10	TBR
65	Pine	10	TBR
66	Pine	12	TBR
67	Pine	14	TBR
68	Pine	16	TBR
69	Pine	16	TBR
70	Pine	12	TBR
71	Pine	20	TBR
72	Pine	14	TBR
73	W. Cherry	14	TBR
74	W. Cherry	Cluster	TBR
75	Pine	30	TBR
76	Pine	10	TBR
77	Pine	16	TBR
78	Pine	24	TBR
79	Pine	16	TBR
80	Pine	22	TBR
81	Pine	22	TBR
82	Pine	22	TBR
83	Pine	12	TBR
84	Pine	18	TBR
85	Pine	16	TBR
86	Pine	16	TBR
87	Pine	12	TBR
88	Pine	12	TBR
89	Pine	20	TBR
90	Pine	14	TBR
91	Pine	15	TBR
92	W. Cherry	Cluster	TBR
93	Pine	12	TBR
94	Maple	20	TBR
95	Maple	24	TBR
96	Maple	24	TBR
97	Maple	18-10	TBR
98	Ash	16	TBR
99	Elm	10	TBR
100	Pine	16	TBR
101	W. Cherry	10	TBR
102	Maple	30	TBR
103	Ash	15	TBR
104	Pine	16	TBR
105	Elm	10	TBR
106	Pine	30	TBR
107	Pine	30	TBR
108	Pine	20	TBR
109	B. Birch	30	TBR
110	W. Cherry	10	TBR
111	W. Cherry	12	TBR
112	Maple	28	TBR
113	W. Cherry	10	TBR
114	W. Cherry	10-14	TBR
115	Maple	36	TBR
116	Hickory	24	TBR
117	W. Cherry	14	TBR
118	Maple	15	TBR
119	Beech	12	TBR
120	Maple	20	TBR
121	B. Birch	18	TBR
122	W. Cherry	12	TBR
123	Pine	10	TBR
124	W. Cherry	16	TBR
125	Oak	14	TBR
126	Maple	16	TBR
127	W. Cherry	18-16	TBR
128	B. Birch	16	TBR
129	B. Birch	18	TBR
130	Beech	10	TBR
131	Maple	12	TBR
132	W. Cherry	24	TBR
133	B. Birch	14	TBR
134	Maple	10	TBR
135	B. Birch	16	TBR
136	30" Birch	36	TBR
137	Pine	10	TBR
138	B. Birch	18	TBR
139	Maple	10	TBR
140	Oak	10	TBR
141	W. Cherry	10	TBR
142	W. Cherry	10-6	TBR
143	W. Cherry	10-16	TBR
144	B. Birch	14	TBR
145	B. Birch	14	TBR
146	Beech	12	TBR
147	W. Cherry	10	TBR
148	Maple	26	TBR
149	B. Birch	18	TBR
150	B. Birch	16	TBR
151	B. Birch	16	TBR
152	B. Birch	14	TBR
153	B. Birch	14	TBR
154	B. Birch	12	TBR
155	Maple	12	TBR
156	Maple	10	TBR
157	B. Birch	14	TBR
158	Maple	12	TBR
159	B. Birch	14	TBR
160	Beech	10	TBR
161	W. Cherry	Cluster Oak	TBR
162	B. Birch	10	TBR
163	B. Birch	12	TBR
164	B. Birch	10	TBR
165	B. Birch	14	TBR
166	W. Cherry	12-8	TBR
167	Maple	10	TBR
168	Pine	12	TBR
169	W. Cherry	10	TBR
170	Oak	18	TBR
171	W. Cherry	10	TBR
172	Hickory	12	TBR
173	W. Cherry	10	TBR
174	Pine	18	TBR
175	Maple	26	TBR
176	Elm	30	TBR
177	Maple	14	TBR
178	Pine	30	TBR
179	B. Birch	24	TBR
180	B. Birch	24	TBR
181	B. Birch	14-14	TBR
182	B. Birch	14-14	TBR
183	Beech	30	TBR
184	W. Cherry	30	TBR
185	B. Birch	15-12	TBR
186	Beech	12	TBR
187	B. Birch	16	TBR
188	Beech	12	TBR
189	Hickory	24	TBR
190	B. Birch	10-12	TBR
191	Ash	14	TBR
192	W. Cherry	30	TBR
193	W. Cherry	30	TBR
194	B. Birch	16	TBR
195	Maple	15	TBR
196	B. Birch	16	TBR
197	Hickory	14	Keep
198	Locust	12	TBR
199	Alanthus	14	TBR
200	Locust	12	TBR
201	30"-30" Ash	30-30	TBR
202	B. Birch	30	TBR
203	14" Locust	14	TBR
204	Maple	30	TBR
205	Oak	20	TBR
206	Maple	10-6	Keep
207	Ash	12	Keep
208	Maple	30	Keep
209	Oak	Cluster	TBR
210	Maple	30	Keep
211	Hickory	18	Keep
212	Maple	12	Keep
213	B. Birch	24	Keep
214	Beech	16	Keep
215	Hickory	20-16	Keep
216	Beech	12	Keep
217	Beech	14-20	Keep
218	W. Cherry	12	Keep
219	W. Cherry	12	Keep
220	Maple	36	Keep
221	Oak	30	Keep
222	Beech	12	Keep
223	Beech	30	Keep
224	Beech	30	Keep
225	Beech	12	Keep
226	Maple	18-8	Keep
227	Beech	12	Keep
228	Beech	30	Keep
229	B. Birch	12	Keep
230	B. Birch	12	Keep
231	Maple	22	Keep
232	B. Birch	12	Keep
233	B. Birch	12	Keep
234	B. Birch	12	Keep
235	Maple	30	Keep
236	Maple	30	Keep
237	Beech	18	TBR
238	Maple	14	Keep
239	B. Birch	30	Keep
240	W. Cherry	30	Keep
241	B. Birch	12	Keep
242	B. Birch	18	TBR
243	B. Birch	16	TBR
244	B. Birch	14	Keep
245	B. Birch	12	Keep
246	Oak	10	TBR
247	Beech	30	TBR
248	Maple	20	TBR
249	B. Birch	12	TBR
250	Beech	Cluster	TBR
251	B. Birch	16	TBR
252	Maple	20	TBR
253	B. Birch	30	TBR
254	Maple	30	TBR
255	Oak	18	TBR
256	Oak	22	TBR
257	Beech	30	Keep
258	Beech	15	Keep
259	Beech	3-30	Keep
260	Beech	3-30	Keep
261	Beech	3-30	Keep
262	B. Birch	12	Keep
263	Beech	16	Keep
264	Beech	16	Keep
265	Beech	36	Keep
266	Beech	36	Keep
267	Beech	36	Keep
268	Beech	18	Keep
269	B. Birch	16	Keep
270	B. Birch	12	Keep
271	Beech	14	Keep
272	Maple	14	Keep
273	Oak	10	Keep
274	Oak	18	Keep
275	Alanthus	12	Keep
276	Maple	12	TBR
277	Oak	18	TBR
278	Oak	14	TBR
279	Maple	10	Keep
280	Maple	10	Keep
281	Maple	24	Keep
282	Maple	10	TBR
283	Oak	14	Keep
284	Maple	10	Keep
285	Ash	10	Keep
286	W. Cherry	20	Keep
287	Ash	10	TBR
288	Maple	14	Keep
289	Maple	14	Keep
290	Alanthus	10	Keep
291	Oak	14	Keep
292	Oak	10	Keep
293	Maple	12	Keep
294	Oak	18	Keep
295	Alanthus	12	Keep
296	Maple	12	TBR
297	Oak	18	TBR
298	Oak	14	TBR
299	14" Tree	14	TBR
300	Oak	18	TBR
301	Maple	10	TBR
302	Maple	30	TBR
303	Maple	30	TBR
304	Beech	14	TBR
305	Pine	10	TBR
306	Pine	16	TBR
307	Pine	12	TBR
308	Pine	12	TBR
309	Pine	14	TBR
310	Pine	12	TBR
3000	Pine	22	TBR
3001	Oak	16	TBR
3002	Oak	10	Keep
3003	Oak	10	Keep
3004	Oak	20	Keep
3005	Oak	8	Keep
3006	Oak	12	Keep
3007	Oak	10-12	Keep
3008	Oak	16	Keep
3009	Maple	24	Keep
3010	Maple	20	TBR
3011	Maple	14	TBR
3012	W. Cherry	16	TBR
3013	W. Cherry	16-24	TBR
3014	Maple	12	Keep
3015	Maple	14	TBR
3016	W. Cherry	18	TBR
3017	Maple	16	TBR
3018	Oak	10	TBR
3019	Oak	10	TBR
3020	Oak	10	TBR
3021	Maple	22	TBR
3022	Maple	18	TBR
3023	Oak	10	TBR
3024	Oak	18	TBR
3025	Oak	16	TBR
3026	Maple	14	TBR
3027	Oak	18-18	TBR
3028	Oak	10	TBR
3029	Oak	14	Keep
3030	Maple	20	TBR
3031	Maple	16	Keep
3032	Maple	18	TBR
3033	Locust	20	TBR
3034	Locust	24-36	Keep
3035	Maple	16	Keep
3036	Locust	30	Keep
3037	Oak	10	TBR
3038	Maple	22	TBR
3039	Maple	18	TBR
3040	Maple	10	TBR
3041	Maple	10	TBR
3042	Maple	10-6	TBR
3043	Oak	10	TBR
3044	Oak	12	TBR
3045	Oak	10	TBR
3046	Oak	10	TBR
3047	Oak	12	TBR
3048	Oak	10	TBR
3049	Hickory	10	TBR
3050	Oak	14	TBR
3051	Oak	14	TBR
3052	Oak	12	TBR
3053	Oak	12	TBR
3054	14" Tree	14	TBR
3055	Oak	14	TBR
3056	Oak	14	TBR
3057	B. Birch	10	TBR
3058	Oak	10	TBR
3059	B. Birch	14	TBR
3060	Oak	10	TBR
3061	Oak	10	TBR
3062	Oak	12	TBR
3063	Oak	14	TBR
3064	Oak	22	TBR
3065	Oak	14	TBR
3066	Maple	16	TBR
3067	Oak	20	TBR
3068	Oak	10	TBR
3069	W. Cherry	30	TBR
3070	Oak	10	TBR
3071	Oak	20	TBR
3072	Oak	12-12	TBR
3073	Oak	10	TBR
3074	Oak	10	TBR
3075	B. Birch	10	TBR
3076	Cluster Tree	Cluster	TBR
3077	Cluster Tree	Cluster	TBR
3078	Oak	Cluster	TBR
3079	Oak	14	TBR
3080	Oak	14	TBR
3081	Oak	10	TBR
3082	Oak	10	TBR
3083	Oak	33	TBR
3084	Oak	10	TBR
3085	Locust	12	Keep
3086	Maple	10	Keep
3087	Locust	12	Keep
3088	Locust	15	Keep
3089	Locust	12	Keep
3090	Oak	10-8	TBR
3091	Oak	Cluster	TBR
3092	Oak	Oak	TBR
3093	Oak	16	TBR
3094	Oak	10	TBR
3095	Oak	10-4	TBR
3096	Oak	10	TBR
3097	Oak	10	TBR
3098	Oak	16	TBR
3099	Oak	16	TBR
3100	Oak	10	TBR
3101	Oak	18	TBR
3102	Oak	16	TBR
3103	Oak	10	TBR
3104	Oak	12	TBR
3105	Oak	22	TBR
3106	Oak	16	TBR
3107	Oak	22	TBR
3108	Oak	18	TBR
3109	Oak	16	TBR
3110	Oak	10	TBR
3111	Oak	10	TBR
3112	Oak	Cluster	TBR
3113	Oak	12	TBR
3114	30"-30" Tree	30-30	TBR
3115	B. Birch	16	TBR
3116	Cottonwood	Cluster	TBR
3117	Cottonwood	Cluster	TBR
3118	Ash	12	TBR
3119	Oak	10	TBR
3120	Oak	12	TBR
3121	Oak	10	TBR
3122	Oak	12	TBR
3123	Beech	10	TBR
3124	Oak	14	TBR
3125	Oak	12	TBR
3126	Maple	10	TBR
3127	Ash	10	TBR
3128	Ash	12-6	TBR
3129	Maple	14	TBR
3130	W. Cherry	12	TBR
3131	B. Birch	4-4	TBR
3132	Oak	10	TBR
3133	Oak	16	TBR
3134	Oak	14-10	TBR
3135	Oak	16	TBR
3136	Oak	10-8	TBR
3137	Oak	10	TBR
3138	Maple	12	TBR
3139	Maple	10	TBR
3140	Maple	10	TBR
3141	Maple	12	TBR
3142	Ash	10	TBR
3143	W. Cherry	10	TBR
3144	Oak	14	TBR
3145	Oak	12	TBR
3146	Maple	10-12	TBR
3147	Maple	12	TBR
3148	Oak	12	TBR
3149	Hickory	12	TBR
3150	Maple	22	Keep
3151	Maple	12-14	Keep
3152	Maple	12-12	TBR
3153	Maple	14	TBR
3154	Maple	10-16	TBR
3155	Maple	Cluster	TBR
3156	Locust	14	TBR
3157	B. Birch	32	TBR
3158	Locust	10	TBR
3159	Locust	16	TBR
3160	Locust	10	TBR
3161	Maple	10	TBR
3162	Maple	28	TBR
3163	Ash	12	TBR
3164	Ash	18	TBR
3165	B. Birch	16	TBR
3166	Maple	28	TBR
3167	Oak	14	TBR
3168	Ash	10	TBR
3169	B. Birch	10	TBR
3170	Maple	10-4	TBR
3171	Ash	10-4	TBR
3172	B. Birch	14	TBR
3173	Ash	10	TBR
3174	Ash	10-10	TBR
3175	Oak	12	TBR
3176	Maple	12	TBR
3177	W. Cherry	18	TBR
3178	Oak	16	TBR
3179	Maple	10	TBR
3180	Maple	10	TBR
3181	Ash	10	TBR
3182	Maple	12	TBR
3183	Oak	10	TBR
3184	Ash	12	TBR
3185	Ash	10	TBR
3186	Ash	10	TBR
3187	Ash	10	TBR
3188	Oak	14	TBR
3189	Oak	16	TBR
3190	Ash	10	TBR
3191	Maple	18	TBR
3192	Maple	10	TBR
3193	W. Cherry	14	TBR
3194	Locust	24-36	Keep
3195	W. Cherry	12	TBR
3196	Ash	10	TBR
3197	Maple	10	TBR
3198	Pine	36	Keep
3199	B. Birch	12	Keep
3200	B. Birch	10	Keep
3201	W. Cherry	12	TBR
3202	Ash	10	Keep
3203	Ash	10	Keep
3204	Ash	10	Keep
3205	Oak	12	Keep
3206	Ash	12	TBR
3207	W. Cherry	12	TBR
3208	Maple	36	TBR
3209	Maple	12	TBR
3210	Ash	Cluster	TBR
3211	Ash	Cluster	TBR
3212	Ash	12	TBR
3213	Maple	12	TBR
3214	Ash	12	TBR
3215	Oak	12	TBR
3216	Oak	12	TBR
3217	Oak	12	TBR
3218	Oak	12	TBR
3219	Oak	12	TBR
3220	Oak	34	TBR
3221	Beech	Cluster	TBR
3222	Oak	10	TBR
3223	Oak	12	TBR
3224	Maple	10	TBR
3225	Maple	14	TBR
3226	Ash	18	TBR
3227	Elm	12	Keep
3228	Maple	30	TBR
3229	Maple	14	TBR
3230	Hickory	26	TBR
3231	Maple	14	Keep
3232	Hickory	16	TBR
3233	Maple	8	Keep
3234	Maple	12	Keep
3235	Maple	12	Keep
3236	Maple	10	TBR
3237	Hickory	10	Keep
3238	Maple	12	Keep
3239	Maple	12	Keep
3240	Maple	10	Keep
3241	Maple	12	Keep
3242	Maple	36	Keep
3243	Locust	36	Keep
3244	Oak	10	TBR
3245	Locust	12	Keep
3246	Maple	10	Keep
3247	Oak	10	TBR
3248	Maple	10	TBR
3249	Maple	10	TBR
3250	Maple	10	TBR
3251	Maple	10	TBR
3252	Maple	10	TBR
3253	Maple	10	TBR
3254	Ash	10	TBR
3255	Pine	10	TBR
3256	Oak	10	TBR
3257	Oak	10	TBR
3258	Oak	10	TBR
3259	Oak	10	TBR
3260	Pine	26	TBR
3261	Pine	14	TBR
3262	Maple	10	TBR
3263	Maple	10	TBR
3264	Maple	10	TBR
3265	Maple	10	TBR
3266	Maple	10	TBR
3267	Maple	14	TBR
3268	Maple	10	TBR
3269	Maple	10	TBR
3270	Maple	10	TBR
3271	Maple	10	TBR
3272	Maple	10	TBR
3273	Ash	10	TBR
3274	Maple	12	TBR
3275	Maple	10	TBR
3276	Maple	12	TBR
3277	Maple	16	TBR
3278	Elm	14	TBR
3279	Maple	20	Keep
3280	Pine	30-18	TBR
3281	Maple	30	TBR
3282	Maple	12	Keep
3283	Maple	10	Keep
3284	Locust	30	Keep
3285	Locust	36	Keep
3286	Locust	36	Keep
3287	Locust	36	Keep
3288	Locust	36	Keep
3289	Maple	24	Keep
3290	Maple	20	Keep
3291	Maple	14	Keep
3292	Maple	10	Keep
3293	Maple	10	Keep
3294	Maple	10	Keep
3295	Maple	10	Keep
3296	Maple	10	Keep
3297	Maple	18	Keep
3298	Maple	10	Keep
3299	Maple	10	Keep
3300	Maple	10	Keep
3301	Maple	10	Keep
3302	Maple	10	Keep
3303	Maple	10	Keep
3304	Maple	10	Keep
3305	Maple	10	Keep
3306	Maple	10	Keep
3307	Maple	10	Keep
3308	Maple	10	Keep
3309	Maple	10	Keep
3310	Maple	10	Keep
3311	Maple	10	Keep
3312	Maple	10	Keep
3313	Maple	10	Keep
3314	Maple	10	Keep
3315	Maple	10	Keep
3316	Maple	10	Keep
3317	Maple	10	Keep
3318	Maple	10	Keep
3319	Maple	10	Keep
3320	Maple	10	Keep
3321	Maple	10	Keep
3322	Maple	10	Keep
3323	Maple	10	Keep
3324	Maple	10	Keep
3325	Maple	10	Keep
3326	Maple	10	Keep
3327	Maple	10	Keep
3328	Pine	34	Keep
3329	Maple	10	Keep
3330	Maple	10	Keep
3331	Maple	10	Keep
3332	Maple	10	Keep
3333	Maple	10	Keep
3334	Maple	10	Keep
3335	Maple	10	Keep
3336	Maple	10	Keep
3337	Maple	10	Keep
3338	Maple	10	Keep
3339	Maple	10	Keep
3340	Maple	10	Keep
3341	Maple	10	Keep
3342	Elm	10	Keep
3343	Hickory	16	Keep
3344	Hickory	10	Keep
3345	Elm	30	Keep
3346	Maple	10	Keep
3347	Ash	12	Keep
3348	Maple	10	Keep
3349	Maple	10	Keep
3350	Elm	8	Keep
3351	Hickory	4-30	Keep
3352	W. Cherry	20	Keep
3353	Maple	14	Keep
3354	Elm	12	TBR
3355	Tulip	16	TBR
3356	Tulip	18	TBR
3357	Maple	14	TBR
3358	Maple	10	TBR
3359	Maple	12	TBR
3360	Pine	26	TBR
3361	Pine	14	TBR
3362	Maple	10	TBR
3363	Maple	10	TBR
3364	Maple	10	TBR
3365	Maple	10	TBR
3366	Maple	10	TBR
3367	Maple	10	TBR
3368	Maple	10	TBR
3369	Maple	10	TBR
3370	Maple	10	Keep
3371	Maple	10	Keep
3372	Maple	32	Keep
3373	Maple	30	Keep
3374	Maple	30	Keep
3375	Maple	30	Keep
3376	Maple	30	Keep
3377	Maple	30	Keep
3378	Elm	14	Keep
3379	Pine	30	Keep
3380	Pine	30-18	TBR
3381	Maple	30	TBR
3382	Maple	12	Keep
3383	Maple	10	Keep
3384	Locust	30	Keep
3385	Locust	36	Keep
3386	Locust	36	Keep
3387	Locust	36	Keep
3388	Maple	20	Keep
3389	Maple	20	Keep
3390	Locust	36	Keep
3391	Maple	24	Keep
3392	Locust	36	Keep
3393	Maple	14	Keep
3394	Maple	30	Keep
3395	Maple	10	Keep
3396	Maple	20-16	Keep
3397	Maple	18	Keep
3398	Maple	10	Keep
402	Maple	14	Keep
403	Hickory	14	Keep
404	Locust	10	Keep
405	Oak	12	Keep
406	Oak	32	Keep
407	Maple	32	Keep
408	Maple	32	Keep
409	Maple	32	Keep
410	Maple	32	Keep
411	Maple	32	Keep
412	Maple	32	Keep
413	Oak	32	Keep
414	Maple	24	Keep
415	Maple	30	Keep
416	Maple	34	Keep
417	Maple	32	Keep
418	Maple	32	Keep
419	Maple	32	Keep
420	Maple	32	Keep
421	Maple	32	Keep
422	Locust	30	Keep
423	Maple	32	Keep
424	Alanthus	14	Keep
425	Alanthus	14	Keep
426	Maple	34	Keep
427	Locust	16	Keep
428	Oak	32	Keep
429	Elm	14	Keep
430	Locust	30	Keep
431	Oak	32	Keep
432	Maple	32	Keep
433	Maple	32	Keep
434	Maple	18	Keep
435	Maple	36	Keep
436	W. Cherry	36	Keep
437	Maple	32	TBR
438	Maple	20	TBR
439	Maple	20	TBR
440	Maple	30	TBR
441	Maple	30	TBR
442	Maple	36



EROSION CONTROL NOTES

PURPOSE:

ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL OR DEPOSITION OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO INHIBIT EROSION OF AN CONTAIN SEDIMENT DEPOSITION WITHIN THE AREA UNDER DEVELOPMENT. THOSE METHODS DEEMED HIGHLY EFFECTIVE ARE DESCRIBED HEREON.

GENERAL GUIDELINES:

1. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED (BY FLAGGING OR OTHER EFFECTIVE MEANS).
2. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSE AT ANY ONE TIME DURING CONSTRUCTION.
3. PRIOR TO START OF SITE CONSTRUCTION, ALL TEMPORARY SILTATION BASINS AND/OR OTHER APPROVED SEDIMENT CONTROL MEASURES SHALL BE IN PLACE WHERE MOST EFFECTIVE.
4. SITE CONSTRUCTION ACTIVITIES SHALL START WHENEVER POSSIBLE AT THE NEAREST POINT UPSTREAM OF THESE SILT TRAPS AND PROCEED TO ACTIVITIES FURTHER UPSTREAM.
5. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM, INSTALLING PERMANENT AND FINAL VEGETATION, PAVING, STRUCTURES, ETC., AT THE EARLIEST POSSIBLE OPPORTUNITY.
6. CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS EXCEPT BY MEANS OF BRIDGES, CULVERTS, OR OTHER APPROVED MEANS.
7. SEDIMENT CONTROL MEASURES INSTALLED IN LIVE STREAMS SHOULD GENERALLY BE MADE OF STONE AND MUST BE SPECIFICALLY DESIGNED, TAKING INTO ACCOUNT THE SIZE OF DRAINAGE BASIN ANTICIPATED STREAM FLOWS AND STREAM VELOCITIES.
8. NO CONSTRUCTION ACTIVITIES WITHIN OR NEAR LIVE STREAMS (CREATION OF PONDS, REALIGNMENT OF STREAM CHANNELS, INSTALLATION OF LARGE CULVERTS, ETC.) SHALL BEGIN UNTIL APPROPRIATE MEASURES FOR TEMPORARILY DIVERTING STREAM FLOW PASSED THE WORK SECTION AND REQUIRED DOWNSTREAM SEDIMENT CONTROLS ARE IN PLACE. IN GENERAL THESE SEDIMENT CONTROLS ARE TO BE REMOVED ONLY WHEN ALL CONSTRUCTION ACTIVITY UPSTREAM HAS BEEN SATISFACTORILY COMPLETED AND THE STREAM FLOWS CLEAR.
9. NOTES ON SITE STABILIZATION:
   - A. ALL TOPSOIL TO BE STRIPPED FROM THE AREA BEING DEVELOPED, SHALL BE STOCKPILED NOT LESS THAN 50 FEET FROM ANY BODY OF SURFACE WATER AND SHALL BE IMMEDIATELY SEEDED TO MANHATTAN RYE GRASS.
   - B. ON ALL EMBANKMENT FILL SLOPES, TOPSOIL SHALL BE STRIPPED AT LEAST FIVE (5) FEET WIDER THAN REQUIRED FOR THE EMBANKMENT TOE OF SLOPE. A PROTECTIVE BERM OF TOPSOIL SHALL BE LEFT IN THIS AREA, RUNNING PARALLEL TO THE CONTOURS FOR THE PURPOSE OF RESTRICTING DRAINAGE RUNOFF. THE TOPSOIL BERM SHALL BE SEEDED AS REQUIRED FOR STOCKPILES.
   - C. IN ADDITION TO THE ABOVE, FURTHER EROSION AND SILTATION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO SLIP TRENCH SILT TRAPS, STAKED HAYBALES OR BRUSH CHECKDAMS, SHALL ALSO BE EMPLOYED WHERE NECESSARY FOR SUPPLEMENTARY EROSION CONTROL MEASURES.
   - D. ALL CUT SLOPES AND EMBANKMENT FILLS ARE TO BE IMMEDIATELY LAID BACK AND STABILIZED AS FOLLOWS:
     1. GRADED TO FINISHED SLOPES
     2. SCARIFIED
     3. TOPSOILED WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL
     4. SEEDED PER CRITICAL AREA SEEDING SPECIFICATIONS.
     5. MULCHED WITH NOT LESS THAN ONE (1) INCH AND NOT MORE THAN THREE (3) INCHES OF STRAW (TWO (2) TONS/ACRE) AND ANCHORED IN A SUITABLE MANNER.
     6. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL EMBANKMENTS WHICH ARE GRADED AT A SLOPE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
11. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
12. THE LOCATIONS AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THIS MANUAL.
13. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED TEMPORARILY SEEDED AND MULCHED WITHIN 7 DAYS.
14. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
15. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
16. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT STRUCTURES.
17. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF "NYS DEC GUIDELINES FOR URBAN EROSION CONTROL, LATEST EDITION".
18. DISTURBANCE OF SLOPES SHALL BE UNDERTAKEN IN WORKABLE UNITS IN WHICH THE DISTURBANCE CAN BE COMPLETED AND STABILIZED IN ONE CONSTRUCTION SEASON SO THAT AREAS ARE NOT LEFT BARE AND EXPOSED DURING THE PERIOD FROM DECEMBER 15 THROUGH APRIL 15.
19. TEMPORARY SOIL STABILIZATION, INCLUDING, IF APPROPRIATE, TEMPORARY STABLIZATION MEASURES SUCH AS NETTING OR MULCHING TO SECURE SOIL DURING THE GROW-IN PERIOD, SHALL BE INITIATED BY END OF NEXT BUSINESS DAY AND PERMANENT STABILIZATION SHALL BE APPLIED WITHIN 7 DAYS OF ESTABLISHING THE FINAL GRADE.
20. TOPSOIL SHALL BE REMOVED FROM ALL AREAS OF DISTURBANCE, STOCKPILED AND STABILIZED IN A MANNER TO MINIMIZE EROSION AND SEDIMENTATION, AND REPLACED ELSEWHERE ON THE SITE AT THE TIME OF FINAL GRADING.
21. TOPSOIL STOCKPILING SHALL NOT PERMITTED ON SLOPES OF GREATER THAN 10%.
22. DISTURBANCE OF EXISTING GROUND COVER SHALL NOT TAKE PLACE MORE THAN SEVEN (7) DAYS PRIOR TO GRADING AND CONSTUCTION.
23. QUALIFIED INSPECTOR SHALL CONDUCT AT LEAST TWO (2) SITE INSPECTIONS EVERY SEVEN (7) CALENDAR DAYS, AND THAT THE TWO (2) INSPECTIONS SHALL BE SEPARATED BY MINIMUM OF TWO (2) FULL CALENDAR DAYS. ADDITIONALLY, THE QUALIFIED INSPECTOR SHALL PREPARE AN INSPECTION REPORT SUBSEQUENT TO EVERY INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYSDEC GENERAL PERMIT GP-0-20-001.

ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE, MAINTAINED REGULARLY IN PROPER FUNCTIONING CONDITION, UNTIL ALL AREAS EXPOSED DURING SITE CONSTRUCTION HAVE BEEN SUITABLY STABILIZED WITH PAVEMENT, PERMANENT STRUCTURES AND/OR FINAL VEGETATION COVER.

EROSION CONTROL LEGEND

- DRAIN INLET PROTECTION (TYP.) * TO BE INSTALLED ON ALL CATCH BASINS
- PROPOSED TEMPORARY SEDIMENT TRAP
- PROPOSED SILT FENCE
- PROPOSED EROSION CONTROL BLANKET
- PROPOSED TEMPORARY CONSTRUCTION FENCING (ORANGE FENCING)
- TEMPORARY EARTHWORK STOCKPILE AREA
- TEMPORARY CONSTRUCTION DITCH
- TEMPORARY TOPSOIL STOCKPILE AREA
- CONSTRUCTION ENTRANCE
- TEMPORARY STOCKPILE AREA FOR FUTURE USE
- LIMIT OF DISTURBANCE (PHASE 1) 40.7 ACRES +/-

*NOTE: IT IS ANTICIPATED THAT TRUCKS WILL ACCESS THE PROJECT SITE DURING CONSTRUCTION FROM BOTH NYS ROUTE 9A AND NYS ROUTE 100. HOSPITAL ROAD AND WOODS ROAD WILL BE USED TO ACCESS THE TWO STATE HIGHWAYS. THE APPLICANT WILL MITIGATE ANY CONSTRUCTION-RELATED PAVEMENT DAMAGE AS DEEMED NECESSARY BY THE NYSDOT AND TOWN OF MOUNT PLEASANT HIGHWAY DEPARTMENT.

PLAN
GRAPHIC SCALE
80 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

*NOTE: PRIOR TO THE START PF PHASE 1, THE LIMITS OF DISTURBANCE SHALL BE LOCATED AND STAKED IN THE FIELD BY THE PROJECT SURVEYOR. THE LIMITS WILL BE DELINEATED DURING CONSTRUCTION WITH TEMPORARY ORANGE CONSTRUCTION FENCING.

NOTE: REFER TO SHEET D-4 FOR EROSION CONTROL NOTES AND FARTHER DETAILS REGARDING STOCKPILE SEEDING AND STABILIZATION.

REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

TIMOTHY S. ALLEN, P.E.

EROSION CONTROL PLAN - PHASE 1

THE NORTH 60
HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	1" = 80'
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	12 OF 18
DWG NO.	EC-1

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

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PHASING LEGEND

- PHASE 1A - TOTAL AREA = 4.9 AC.
  EARTHWORK BALANCE = N/A
  ESTIMATED DURATION = 3 MONTHS
- PHASE 1B - TOTAL AREA = 4.8 AC.
  EARTHWORK BALANCE = 68,200 CY EXCESS CUT
  ESTIMATED DURATION = 6 MONTHS
- PHASE 1C - TOTAL AREA = 4.6 AC.
  EARTHWORK BALANCE = 7,300 CY EXCESS FILL
  ESTIMATED DURATION = 3 MONTHS
- PHASE 1D - TOTAL AREA = 5.0 AC.
  EARTHWORK BALANCE = 10,906 CY EXCESS FILL
  ESTIMATED DURATION = 9 MONTHS
- PHASE 1E - TOTAL AREA = 3.1 AC.
  EARTHWORK BALANCE = 2,368 CY EXCESS CUT
  ESTIMATED DURATION = 3 MONTHS
- PHASE 1F - TOTAL AREA = 2.1 AC.
  EARTHWORK BALANCE = 3,782 CY EXCESS CUT
  ESTIMATED DURATION = 3 MONTHS
- PHASE 1G - TOTAL AREA = 4.9 AC.
  EARTHWORK BALANCE = 31,716 CY EXCESS FILL
  ESTIMATED DURATION = 6 MONTHS
- PHASE 1H - TOTAL AREA = 4.4 AC.
  EARTHWORK BALANCE = 100,057 CY EXCESS CUT
  ESTIMATED DURATION = 9 MONTHS*
- PHASE 1I - TOTAL AREA = 4.7 AC.
  EARTHWORK BALANCE = 81,281 CY EXCESS FILL
  ESTIMATED DURATION = 9 MONTHS*
- PHASE 1J - TOTAL AREA = 4.2 AC.
  EARTHWORK BALANCE = 24,361 CY EXCESS FILL
  ESTIMATED DURATION = 9 MONTHS*

TOTAL AREA OF DISTURBANCE (PHASE 1) = 40.7 ACRES
TOTAL EARTHWORK BALANCE (PHASE 1) = 18,464 EXCESS CUT
TOTAL ESTIMATED DURATION (PHASE 1) = 60 MONTHS (5 YEARS)

*NOTE: THERE MAY BE OVERLAP OF CONSTRUCTION ACTIVITIES FOR PHASES 1D, 1H, 1I, 1J WHEN WORK IS PRIMARILY INTERIOR BUILDING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL ENSURE THAT NO MORE THAN FIVE (5) ACRES OF SOIL DISTURBANCE OCCURS AT ANY GIVEN TIME DURING THE CONSTRUCTION PROCESS. ANY MODIFICATIONS TO THE PHASING PLAN SHALL BE COORDINATED WITH THE PROJECT ENGINEER, TOWN OF MOUNT PLEASANT STORMWATER MANAGEMENT OFFICER.

CONSTRUCTION SEQUENCING:

PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE APPLICANT, APPLICANT'S ENGINEER, CONTRACTOR, AND REPRESENTATIVES OF ALL INVOLVED REGULATORY AGENCIES SHALL REVIEW ALL ASPECTS OF THE PROPOSED CONSTRUCTION IN A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE.

PHASE 1A:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1A IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.
   NOTE: INITIAL ACCESS FOR EQUIPMENT MOBILIZATION FOR PHASE 1A SHALL BE FROM THE EXISTING DRIVEWAY TO SAW MILL RIVER ROAD AT THE NORTHEAST CORNER OF THE PROJECT SITE.
2. BEGIN DEMOLITION / REMOVAL OPERATIONS OF EXISTING DWELLINGS AND ANCILLARY SITE FEATURES WITHIN LIMITS OF PHASE 1A. ALL EXCESS MATERIAL AND CONSTRUCTION DEBRIS GENERATED BY REMOVAL OPERATIONS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES.
3. ESTABLISH CONTRACTOR STAGING AREA FOR CONSTRUCTION TRAILERS, EQUIPMENT MOBILIZATION AND STOCKPILES FOR FUTURE WEST ST. EXCAVATION.
4. ALL AREAS WITHIN PHASE 1A WHICH ARE NOT TO BE UTILIZED FOR STAGING OR STOCKPILE AREA SHALL BE IMMEDIATELY STABILIZED WITH SEED AND MULCH IN ACCORDANCE WITH THE SEEDING NOTES SPECIFIED HEREIN ON SHEET D-4.

PHASE 1B:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1B IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB PHASE 1B WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE TRANSPORTED VIA THE EXISTING DRIVEWAY TO THE STOCKPILE/ STAGING AREA ESTABLISHED DURING PHASE 1A. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR FOR WEST ST. AND STORMWATER BASIN (SWP-1). BEGINNING AT OLD SAW MILL RIVER ROAD. AND CONSTRUCT RETAINING WALLS. EROSION CONTROL BLANKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING OF CREATED SLOPE IS COMPLETE, EXCESS MATERIAL RESULTING FROM WEST ST. EARTHWORK OPERATIONS SHALL BE TRANSPORTED VIA THE EXISTING DRIVEWAY TO THE STOCKPILE/STAGING AREA ESTABLISHED DURING PHASE 1A. STOCKPILE MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS. AS LONG-TERM STOCKPILES ARE STABILIZED FOR FUTURE USE, ADDITIONAL EXCAVATED MATERIAL SHALL BE PLACED WITHIN THE LIMITS OF PHASE 1C AND/OR EXPORTED OFFSITE.
   NOTE: STABILIZED CONSTRUCTION ENTRANCES FROM OLD SAW MILL RIVER ROAD AND EXISTING DRIVEWAY SHALL BE UTILIZED FOR CONSTRUCTION VEHICLE ACCESS DURING THIS PHASE.. CONNECTION TO SAW MILL RIVER ROAD (ROUTE 9A) SHALL NOT BE UTILIZED UNTIL SUCH TIME THAT ALL NECESSARY PERMANENT TRAFFIC CONTROL MEASURES HAVE BEEN INSTALLED.
5. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1B.
6. INSTALL ITEM-4 SUB-BASE FOR PROPOSED ROAD. CONSTRUCT SIDEWALKS, AND ASPHALT PAVEMENT TO BINDER COURSE WITHIN LIMITS OF PHASE 1B.
7. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
8. REMOVE ANY ACCUMULATED SEDIMENT FROM STORMWATER BASIN (SWP-1) (TO BE UTILIZED AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION), INSTALL PERMANENT BASIN PLANTINGS AND MAKE ANY MODIFICATIONS NECESSARY TO BASIN OUTLET STRUCTURE FOR CONVERSION FROM TEMPORARY SEDIMENT BASIN TO PERMANENT STORMWATER MANAGEMENT PRACTICE.
9. INSTALL REQUIRED TRAFFIC CONTROL MEASURES AT OLD SAW MILL RIVER ROAD AND SAW MILL RIVER ROAD (ROUTE 9A) IN ACCORDANCE WITH NYSDOT AND TOWN REQUIREMENTS.
10. ONCE FINAL STABILIZATION IS ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED AND ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1C:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1C IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB PHASE 1C WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE STOCKPILE/ STAGING AREA ESTABLISHED DURING PHASE 1A. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR REMAINDER WEST ST. WITHIN LIMITS OF PHASE 1C. ADDITIONAL FILL MATERIAL REQUIRED FOR PHASE 1C SHALL BE PROVIDED BY THE TEMPORARY STOCKPILES SITUATED IN PHASE 1A AND 1C. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
5. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1C.
6. INSTALL SUBSURFACE INFILTRATION SYSTEM #1. INFILTRATION SYSTEM SHALL REMAIN OFFLINE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED.
7. INSTALL ITEM 4 SUB-BASE FOR PROPOSED ROAD, CONSTRUCT SIDEWALKS AND ASPHALT PAVEMENT TO BINDER COURSE FOR REMAINDER OF WEST ST. WITHIN LIMITS OF PHASE 1C.
8. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
9. ONCE FINAL STABILIZATION IS ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED AND ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1D:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1D IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB PHASE 1D WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS WITHIN THE LIMITS OF PHASE 1D. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. IN ORDER TO CONSTRUCT THE PROPOSED WET POND, THE EXISTING WATERCOURSE SHALL BE TEMPORARILY PIPED BEYOND THE EXTENT OF THE FUTURE WET POND AND DISCHARGED INTO THE WATERCOURSE IMMEDIATELY DOWNSTREAM OF THE WET POND LOCATION. THE TEMPORARY PIPE SHALL BE 36" HDPE PIPE AND WILL CONNECT TO THE EXISTING DRAIN MANHOLE LOCATED AT THE HOSPITAL ROAD & WOODS ROAD INTERSECTION. THE TEMPORARY PIPE SHALL DISCHARGES TO A TYPICAL ADS PIPE END SECTION SHALL REMAIN IN PLACE UNTIL THE WET POND AREA HAS PERMANENT VEGETATIVE GROWTH AND ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN FULLY STABILIZED. THE CONFIGURATION OF THE TEMPORARY PIPE HAS BEEN SHOWN ON THE EROSION CONTROL PLAN EC-1.
5. BEGIN EARTHWORK OPERATIONS FOR HOTEL DRIVE, STORMWATER BASIN (SWP-4) AND CONSTRUCT RETAINING WALLS. EROSION CONTROL BLANKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING OF CREATED SLOPE IS COMPLETE. ADDITIONAL FILL MATERIAL REQUIRED FOR PHASE 1D SHALL BE PROVIDED BY THE TEMPORARY STOCKPILES SITUATED IN PHASE 1A AND 1C. STOCKPILED MATERIAL WHICH REMAINS UNUSED FOR (7) DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
6. BEGIN CONSTRUCTION OF HOTEL BUILDING.
7. INSTALL PROPOSED SUBSURFACE WATER AND SEWER MAINS FROM WEST ST. TO END OF HOTEL DRIVE.
8. INSTALL SUBSURFACE INFILTRATION SYSTEM #9. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1D.
9. INSTALL ITEM 4-SUB BASE FOR HOTEL DRIVE, CONSTRUCT SIDEWALKS AND ASPHALT PAVEMENT TO BINDER COURSE.
10. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
11. INSTALL PERMANENT BASIN (SWP-4) PLANTINGS AND CONSTRUCT OUTLET STRUCTURE, AND RIP-RAP CHANNEL AS PER DETAILS. ONCE ALL CONTRIBUTING AREAS ARE FULLY STABILIZED, REMOVE TEMPORARY BYPASS PIPE AND CONNECT PERMANENT DRAINAGE PIPING TO THE SEDIMENT FOREBAY OF THE NEWLY CREATED WET POND.
12. ONCE FINAL STABILIZATION IS ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED AND ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1E:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AND RUNOFF CONTROL MEASURES FOR PHASE 1E IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS. ALL RUNOFF CONTROL MEASURES MUST BE INSTALLED BEFORE EARTHWORK/GRADING OPERATIONS.
2. CLEAR AND GRUB PHASE 1E WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS WITHIN THE LIMITS OF PHASE 1E. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR HOTEL PARKING AREA. EROSION CONTROL BLANKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING OF CREATED SLOPE IS COMPLETE. ALL EXCESS MATERIAL RESULTING FROM PHASE 1E EARTHWORK OPERATIONS SHALL BE STOCKPILED IN STOCKPILE/STAGING AREA ESTABLISHED DURING PHASE 1A. ANY STOCKPILED MATERIAL WHICH REMAINS UNUSED FOR (7) DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
5. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION AND CONNECTED PIPING WITHIN PHASE 1F.
6. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
7. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1F:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1F IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB PHASE 1F WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS WITHIN THE LIMITS OF PHASE 1F. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR INFILTRATION BASIN (SWP-3). THE PROPOSED INFILTRATION BASIN SHALL NOT BE EXCAVATED TO THEIR RESPECTIVE FULL DEPTHS UNTIL THE OVERLAND AREAS TRIBUTARY TO THE BASINS HAVE BEEN STABILIZED. EROSION CONTROL BLANKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING OF CREATED SLOPE IS COMPLETE. ALL EXCESS MATERIAL RESULTING FROM PHASE 1E EARTHWORK OPERATIONS SHALL BE STOCKPILED IN STOCKPILE/STAGING AREA ESTABLISHED DURING PHASE 1A. ANY STOCKPILED MATERIAL WHICH REMAINS UNUSED FOR (7) DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
5. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION AND CONNECTED PIPING WITHIN PHASE 1F.
6. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
7. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1G:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AND RUNOFF CONTROL MEASURES FOR PHASE 1G IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS. ALL RUNOFF CONTROL MEASURES MUST BE INSTALLED BEFORE EARTHWORK/GRADING OPERATIONS. WATER BARS AND CONSTRUCTION DITCHES SHALL REMAIN IN PLACE UNTIL PHASE 1G AND 1H ARE TO BE PAVED.
2. CLEAR AND GRUB PHASE 1G WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS WITHIN THE LIMITS OF PHASE 1G. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR MAIN ST. AND NORTH PARKING LOT. EROSION CONTROL BLANKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING OF CREATED SLOPE IS COMPLETE. EXCESS MATERIAL STOCKPILED FROM PREVIOUS PHASES IN STAGING AREA ESTABLISHED DURING PHASE 1A SHALL BE UTILIZED FOR FILL IN NORTH PARKING LOT.. ANY STOCKPILED MATERIAL WHICH REMAINS UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
5. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1G.
6. INSTALL SUBSURFACE INFILTRATION SYSTEM # 2. INFILTRATION SYSTEM SHALL REMAIN OFFLINE UNTIL FINAL STABILIZATION HAS BEEN ACHIEVED.
7. INSTALL ITEM-4 SUB BASE FOR MAIN ST. AND NORTH PARKING LOT. CONSTRUCT SIDEWALKS AND INSTALL ASPHALT PAVEMENT TO BINDER COURSE.
8. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
9. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1H:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1H IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.
2. CLEAR AND GRUB PHASE 1H WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE STOCKPILE/ STAGING AREA ESTABLISHED DURING PHASE 1A. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR CENTRAL PARKING LOT. EXCESS MATERIAL RESULTING FROM PHASE 1H EARTHWORK OPERATIONS SHALL BE STOCKPILED WITHIN THE LIMITS OF PHASE 1H AND 1G. ANY STOCKPILED MATERIAL WHICH REMAINS UNUSED FOR (7) DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4. AS LONG-TERM STOCKPILES ARE STABILIZED FOR FUTURE USE, ADDITIONAL EXCAVATED MATERIAL SHALL BE PLACED WITHIN THE LIMITS OF PHASE 1J AND 1I.
5. BEGIN CONSTRUCTION OF PHARMACY BUILDING.
6. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1H.
7. INSTALL ITEM 4-SUB BASE FOR CENTRAL PARKING LOT, CONSTRUCT SIDEWALKS AND INSTALL ASPHALT PAVEMENT TO BINDER COURSE.
8. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
9. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1I:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AND RUNOFF CONTROL MEASURES FOR PHASE 1I IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS. ALL RUNOFF CONTROL MEASURES MUST BE INSTALLED BEFORE EARTHWORK/GRADING OPERATIONS.
2. CLEAR AND GRUB PHASE 1I WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE STOCKPILE/ STAGING AREA ESTABLISHED DURING PHASE 1A. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN EARTHWORK OPERATIONS FOR INFILTRATION BASIN (SWP-2). THE PROPOSED INFILTRATION BASIN SHALL NOT BE EXCAVATED TO THEIR RESPECTIVE FULL DEPTHS UNTIL THE OVERLAND AREAS TRIBUTARY TO THE BASINS HAVE BEEN STABILIZED. EROSION CONTROL BLANKS SHALL BE INSTALLED IMMEDIATELY AFTER GRADING OF CREATED SLOPE IS COMPLETE. ADDITIONAL FILL MATERIAL REQUIRED FOR PHASE 1I SHALL BE PROVIDED BY THE TEMPORARY STOCKPILES SITUATED IN PHASE 1H AND 1G. ANY STOCKPILED MATERIAL WHICH REMAINS UNUSED FOR (7) DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
5. BEGIN EARTHWORK OPERATIONS FOR CROSS ST. AND WEST PARKING LOT.
6. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1I.
7. INSTALL ITEM 4-SUB BASE FOR CROSS ST. AND WEST PARKING LOT, CONSTRUCT SIDEWALKS AND INSTALL ASPHALT PAVEMENT TO BINDER COURSE.
8. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
9. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

PHASE 1J:

1. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AND RUNOFF CONTROL MEASURES FOR PHASE 1J IN THE LOCATIONS SHOWN ON THE PROPOSED EROSION AND SEDIMENT CONTROL PLANS.ALL RUNOFF CONTROL MEASURES MUST BE INSTALLED BEFORE EARTHWORK/GRADING OPERATIONS.
2. CLEAR AND GRUB PHASE 1J WORK AREA. ALL STUMPS GENERATED DURING CLEARING OPERATIONS SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. NO ONSITE BURIAL OF THIS MATERIAL SHALL BE PERMITTED.
3. STRIP AND STOCKPILE TOPSOIL FROM PROPOSED WORK AREA. TOPSOIL SHALL BE STOCKPILED IN THE STOCKPILE/ STAGING AREA ESTABLISHED DURING PHASE 1A. ADDITIONAL FILL MATERIAL REQUIRED FOR PHASE 1I SHALL BE PROVIDED BY THE TEMPORARY STOCKPILES SITUATED IN PHASE 1I AND 1J. STOCKPILED MATERIAL TO REMAIN UNUSED FOR (7) SEVEN DAYS SHALL BE SEEDED AND STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
4. BEGIN CONSTRUCTION OF BIOTECH AND GROCERY BUILDINGS.
5. INSTALL PROPOSED DRAINAGE STRUCTURES, ASSOCIATED INLET PROTECTION, CONNECTED PIPING, SUBSURFACE UTILITIES AND CURBS WITHIN LIMITS OF PHASE 1J.
6. INSTALL ITEM-4 SUB BASE FOR PARKING AREAS, CONSTRUCT SIDEWALKS AND INSTALL ASPHALT PAVEMENT TO BINDER COURSE.
7. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS PROVIDED ON SHEET D-4.
8. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF.

*NOTE: IT IS ANTICIPATED THAT TRUCKS WILL ACCESS THE PROJECT SITE DURING CONSTRUCTION FROM BOTH NYS ROUTE 9A AND NYS ROUTE 100. HOSPITAL ROAD AND WOODS ROAD WILL BE USED TO ACCESS THE TWO STATE HIGHWAYS. THE APPLICANT WILL MITIGATE ANY CONSTRUCTION-RELATED PAVEMENT DAMAGE AS DEEMED NECESSARY BY THE NYSDOT AND TOWN OF MOUNT PLEASANT HIGHWAY DEPARTMENT,

PLAN

GRAPHIC SCALE

80 0 40 80 160 320

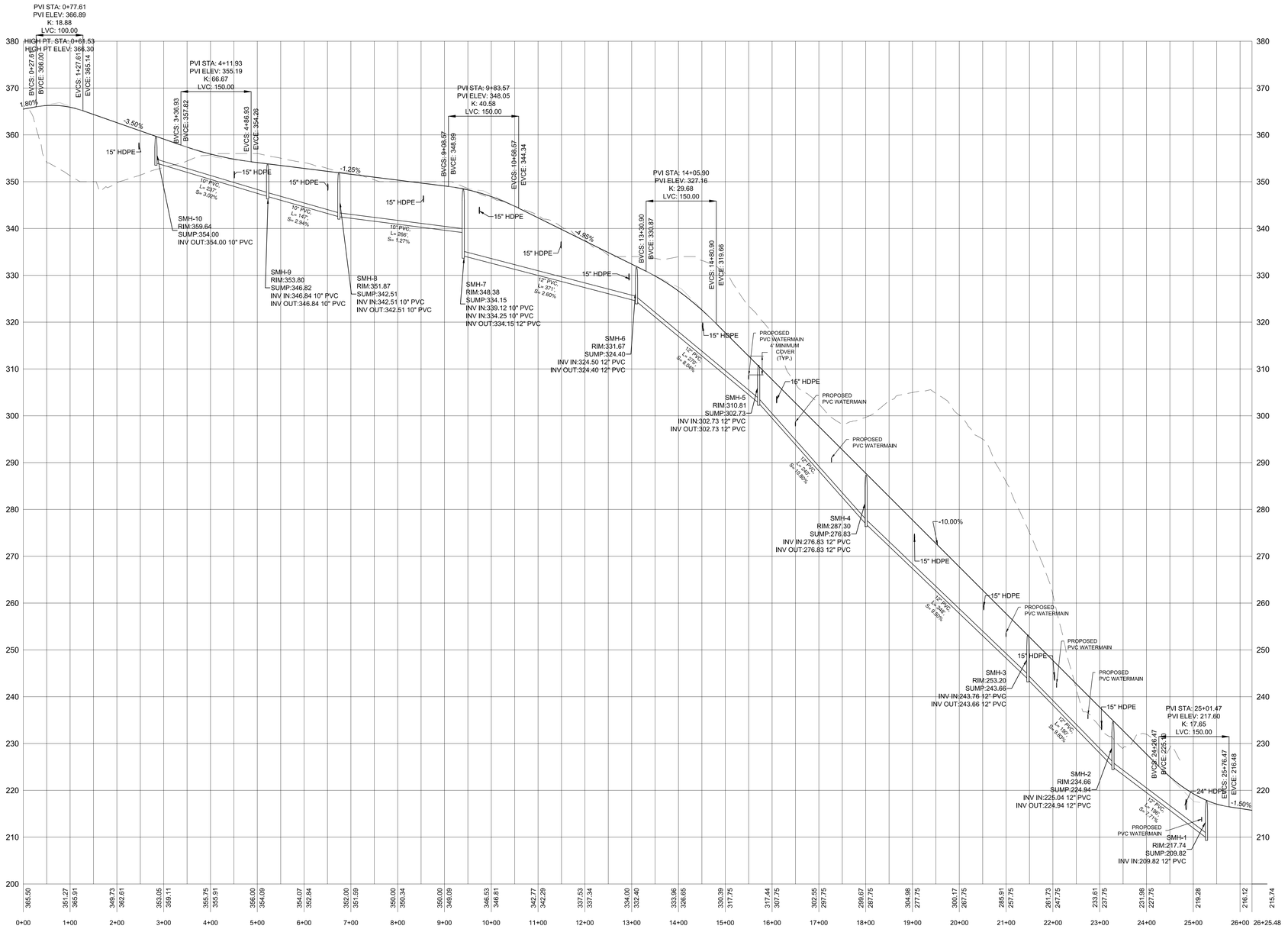
(IN FEET)
1 inch = 80 ft.

*NOTE: PRIOR TO THE START PF PHASE 1, THE LIMITS OF DISTURBANCE SHALL BE LOCATED AND STAKED IN THE FIELD BY THE PROJECT SURVEYOR. THE LIMITS WILL BE DELINEATED DURING CONSTRUCTION WITH TEMPORARY ORANGE CONSTRUCTION FENCING.

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

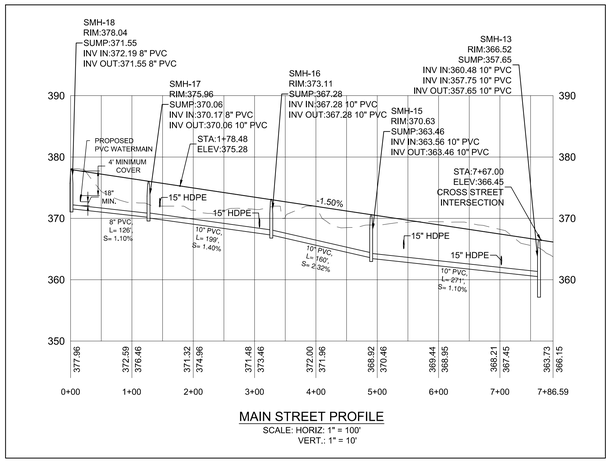
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DUPLICATION IS A VIOLATION OF APPLICABLE LAWS

REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS		NG
3-17-20	DEIS COMPLETENESS REVIEW	RH/NG	5-12-21	FEIS COMMENTS		NG
6-25-20	SEWER MAIN REVISION	RH/NG				
DATE:	DESCRIPTION	BY/CK	DATE:	DES



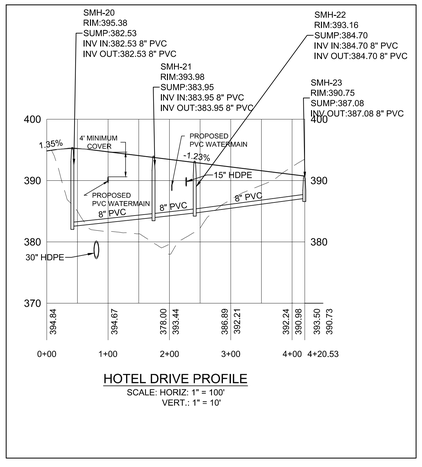
WESTERN STREET PROFILE

SCALE: HORIZ: 1" = 100'
VERT.: 1" = 10'



MAIN STREET PROFILE

SCALE: HORIZ: 1" = 100'
VERT.: 1" = 10'



HOTEL DRIVE PROFILE

SCALE: HORIZ: 1" = 100'
VERT.: 1" = 10'

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

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REVISIONS

DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			

STATE OF NEW YORK · TIMOTHY S. ALLEN · LICENSED PROFESSIONAL ENGINEER · 073434

TIMOTHY S. ALLEN, P.E.

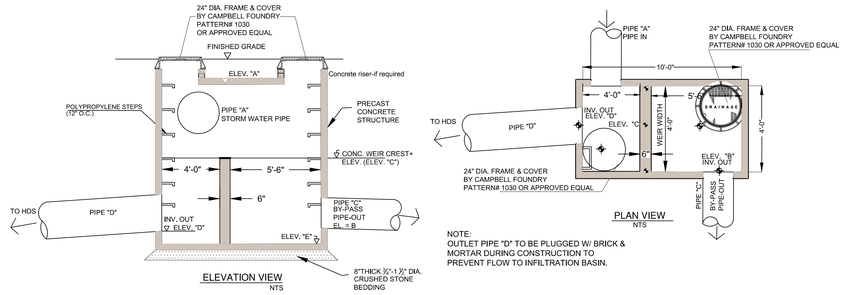
ROAD PROFILES - PHASE I

THE NORTH 60

HOSPITAL ROAD & ROUTE 9A
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

DATE:	JUNE 14, 2018
SCALE:	1" = 100'
FILE:	12-D
DSGN / CHK.	NG/TA
DRN. BY:	RH
SHT NO.	14 OF 18
DWG NO.	RP-1

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805



ELEVATION VIEW
NTS

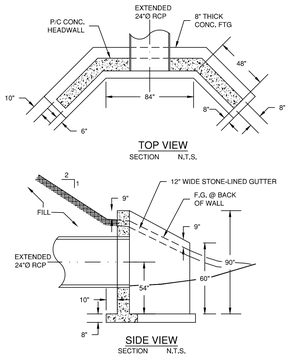
PLAN VIEW
NTS

NOTE:
OUTLET PIPE "D" TO BE PLUGGED W/ BRICK & MORTAR DURING CONSTRUCTION TO PREVENT FLOW TO INFILTRATION BASIN.

DIVERSION MANHOLE

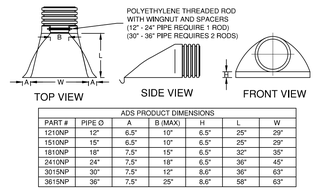
N.T.S.

NOTES:
1. HS-20-44 LOADING DESIGN REQUIRED BY THE PRECAST MANUFACTURER
2. SHOP DWGS. OF EACH STRUCTURE TO BE PROVIDED FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO PRODUCTION.
3. WEIR WALL TO BE CAST INTEGRALLY WITH STRUCTURE FLOOR AND WALLS.



PROPOSED REINFORCED CONCRETE HEADWALL

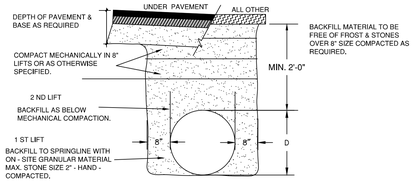
NOTE: PROVIDE 1" CHAMFER ON ALL EXPOSED EDGES



ADS PRODUCT DIMENSIONS						
PART #	PIPE Ø	A	B (MAX.)	H	L	W
1210NP	12"	6.5"	10"	6.5"	25"	29"
1510NP	15"	6.5"	10"	6.5"	25"	29"
1810NP	18"	7.5"	15"	6.5"	32"	35"
2410NP	24"	7.5"	18"	6.5"	36"	45"
3015NP	30"	7.5"	12"	8.6"	36"	63"
3615NP	36"	7.5"	25"	8.6"	58"	63"

ADS - FLARED END SECTION

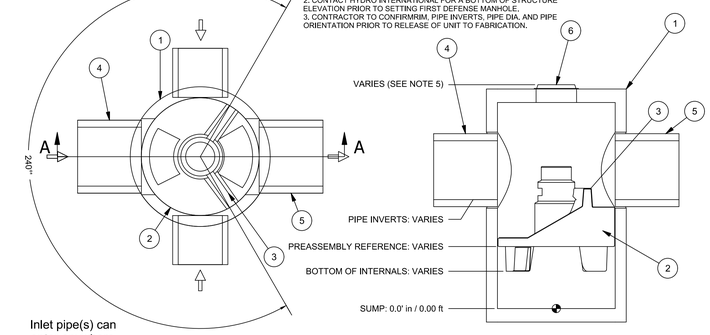
OR APPROVED EQUAL
N.T.S.



DRAINAGE PIPE INSTALLATION

N.T.S.

4. CATCH BASIN OR DRAIN MANHOLE WITH 3 OR MORE PIPE CONNECTIONS SHALL BE OVERSIZED DIMENSIONS.



SECTION A-A

Parts List		
ITEM	SIZE (in)	DESCRIPTION
1	VARIES	I.D. PRECAST MANHOLE
2		LEDGER SUPPORT
3		SEPARATION MODULE
4	VARIES	INLET PIPE (BY OTHERS)
5	VARIES	OUTLET PIPE (BY OTHERS)
6	VARIES	FRAME AND COVER (OR GRATE) (ROUND)

(SEE CUT SHEETS IN SWPPP FOR SPECIFIC SIZES & DIMENSIONS FOR EACH MODEL)

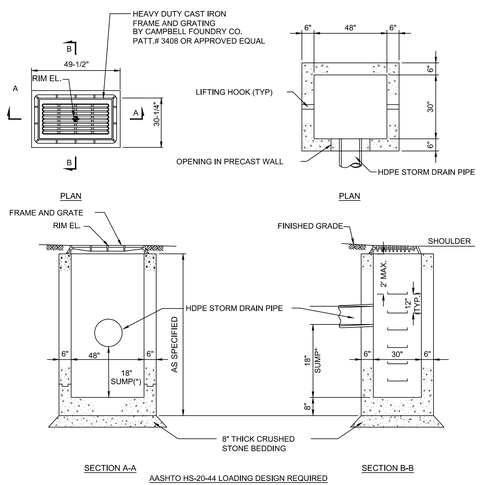
GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific fabrication drawings.
2. The diameter of the inlet & outlet pipes may be no more than 48".
3. Multiple inlet pipes possible (refer to project plans).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

PRODUCT SPECIFICATIONS:
A. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
B. The treatment system shall fit within the limits of excavation (area and depth) as shown in the project plans and will not exceed the dimensions for the design flow rates specified herein.
C. The treatment flow rate specified by the manufacturer has been certified by NJCAT and meets the requirements for the practice to be used for pre-treatment purposes only.

FIRST DEFENSE HC DETAIL

N.T.S.
(DESIGNED, MANUFACTURED, AND SUPPLIED BY HYDRO INTERNATIONAL PLC.)
(TO BE USED FOR PRETREATMENT PURPOSES ONLY)

PRETREATMENT CHAMBER SIZING					
SYSTEM I.D.	HDS MODEL NUMBER	PEAK TREATMENT FLOW	1 YEAR STORM EVENT PEAK FLOW TO PRACTICE	PEAK HYDRAULIC BYPASS FLOW	100 YEAR STORM EVENT PEAK FLOW TO PRACTICE
HDS-INF 1	FD-6HC	4.23 cfs	3.78 cfs	32.00 cfs	4.81 cfs
HDS-INF 2	FD-6HC	4.23 cfs	3.88 cfs	32.00 cfs	5.63 cfs
HDS-INF 3	FD-5HC	2.94 cfs	2.12 cfs	20.00 cfs	5.43 cfs
HDS-INF 4	FD-4HC	1.88 cfs	1.20 cfs	18.00 cfs	4.66 cfs
HDS-INF 9	FD-5HC	2.94 cfs	1.97 cfs	20.00 cfs	6.97 cfs
HDS-SWP 1	FD-8HC	7.52 cfs	0.79 cfs	50.00 cfs	34.72 cfs
HDS-SWP 2	FD-8HC	7.52 cfs	3.79 cfs	50.00 cfs	40.58 cfs
HDS-SWP 3	TBD	----------	14.52 cfs	----------	102.32 cfs

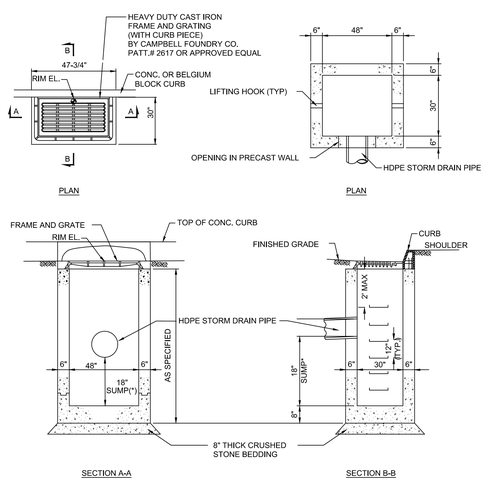


AASHTO HS-20-44 LOADING DESIGN REQUIRED

1. BASE & RISE SECTIONS SHALL BE PRECAST & MONOLITHICALLY POURED.
2. CONCRETE SHALL BE 4,000 PSI AT TIME OF DELIVERY.
3. ALL BASINS SHALL HAVE 18" MINIMUM SUMPS.
4. PROVIDE PROPER LIP AND / OR ANCHORING IN CASES OF HIGH GROUND WATER TO PREVENT FLOATATION.
5. LADDERS RUNGS CONFORMING TO N.Y.S.D.O.T. SPEC. NO.725-02.01
6. ALL PIPES SHALL BE LAID OR CUT FLUSH WITH THE INSIDE OF THE BASIN WALL & SHALL BE FIRMLY PARGED IN PLACE, BOTH INSIDE AND OUTSIDE.
7. BRICK FRAME & GRATE TO GRADE TO MATCH BOTH CROWN OF ROAD & SLOPE OF ROAD. A MAX. OF TWO (2) CONCRETE BRICKS OR ONE (1) 6" SOLID BLOCK WILL BE PERMITTED, PARGED INSIDE & OUTSIDE.

TYPICAL CATCH BASIN (FT TYPE)

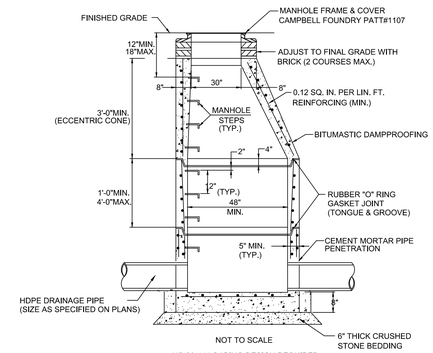
N.T.S.



AASHTO HS-20-44 LOADING DESIGN REQUIRED

TYPICAL CATCH BASIN (CI TYPE)

N.T.S.



GENERAL NOTES: HS-20-44 LOADING DESIGN REQUIRED

1. DRAINAGE PIPES MARKED WITH "HDPE" SHALL BE HIGH DENSITY POLYETHYLENE SMOOTH BORE AS MANUFACTURED BY ADS N-12 OR APPROVED EQUAL
2. CATCH BASINS, MANHOLES AND ALL CASTINGS SHALL BE IN ACCORDANCE WITH TOWN OF SOMERS REQUIREMENTS, STANDARDS AND SPECIFICATIONS AND AS SHOWN ON PLANS.
3. UNDERDRAINS SHALL BE 6" DIA. PERFORATED CORRUGATED STEEL PIPE OR EQUAL.
4. CATCH BASIN OR DRAIN MANHOLE WITH 3 OR MORE PIPE CONNECTIONS SHALL BE OVERSIZED DIMENSIONS.

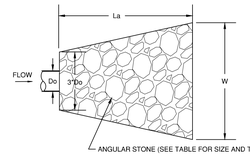
NOTES:

1. 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. ECCENTRIC PRECAST REDUCERS SHALL BE PLACED ABOVE THE 5' OR 6' BASE AND THE WALL THICKNESS INCREASED 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
2. NON-SHRINK GROUT MAY BE UTILIZED IN LIEU OF FLEXIBLE SLEEVES FOR STORM DRAINAGE MANHOLES.
3. LIFTING HOLES IN PRECAST SECTIONS TO BE FILLED WITH MORTAR.
4. FOR SHALLOW MANHOLES, SUBSTITUTE PRECAST SLAB TOP FOR ECCENTRIC CONE. SLAB SHALL BE CAPABLE OF SUPPORTING AN HS-20-44 LOAD.

EXCEPTION: DMH #4 WILL HAVE 2' SUMP AT THE END OF THE BYPASS LINE TO TREAT OFFSITE AREAS

PRECAST CONCRETE DRAINAGE MANHOLE

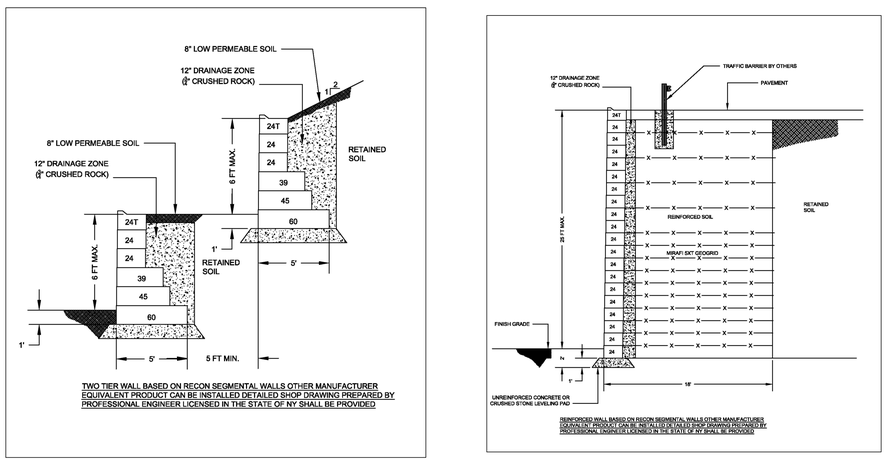
N.T.S.



ROCK OUTLET PROTECTION DETAIL

N.T.S.

R.O.P. DIMENSIONS DESIGN STORM: 10 YEAR STORM						
I.D.	Q10 (CFS)	D0 (inches)	W	La	THICKNESS (inches)	STONE SIZE
SWP 1 - ES 1	15.07	18	7.5	6	14	6"-9"
SWP 2 - ES 1	21.14	15	21.33	20	24	10"-16"
SWP 2 - ES 2	3.35	15	7.33	6	8	3"-5"
SWP 3 - ES 1	71.54	36	27	24	22	9"-15"
SWP 3 - ES 2	20.60	48	10	6	8	3"-5"
SWP 4 - ES 1	12.78	15	7.33	6	11	4"-7"
SWP 4 - ES 2	31.40	36	9	6	8	3"-5"
INF 1 - ES 1	10.53	24	8	6	8	3"-5"
INF 3 - ES 1	10.33	24	8	6	8	3"-5"
INF 4 - ES 1	0	18	7.5	6	8	3"-5"
WS - ES 1	11.26	24	8	6	8	3"-5"



STRUCTURAL RETAINING WALL DETAILS

N.T.S.
WALLS DESIGNED BY: MEKAEL ENGINEERING & CONSULTING, INC.

NOTE:
SHOP DRAWINGS OF ALL DRAINAGE COMPONENTS SHOULD BE PROVIDED TO OUR OFFICE FOR THEIR REVIEW AND APPROVAL PRIOR TO PRODUCTION / PURCHASING

REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTIONS 7209 (2) OF THE NEW YORK STATE EDUCATION LAW

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STATE OF NEW YORK · TIMOTHY S. ALLEN · 073434 · LICENSED PROFESSIONAL ENGINEER

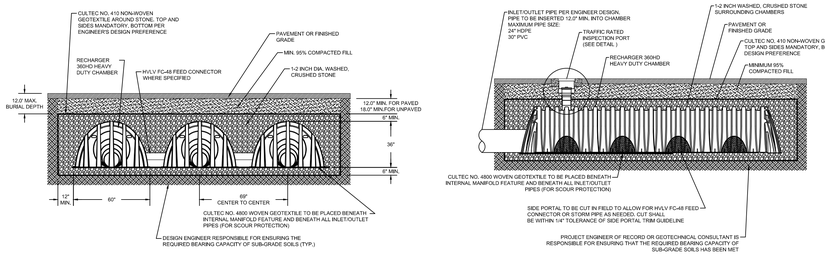
TIMOTHY S. ALLEN, P.E.

CONSTRUCTION DETAILS - PHASE 1

WESTCHESTER MEDICAL VILLAGE
STREET ADDRESS
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

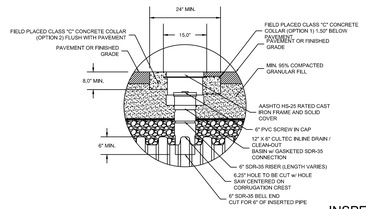
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293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	AS SHOWN
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	15 OF 18
DWG NO.	**D-1**

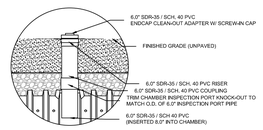


*THE CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CULTEC RECHARGER 360HD
(N.T.S.)

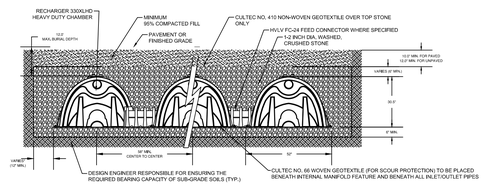


INSPECTION PORT
N.T.S.





CULTEC HVLV FC-24
N.T.S.



GENERAL NOTES

RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

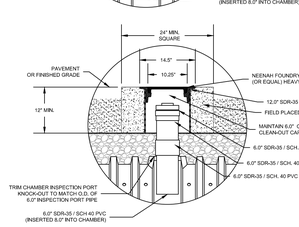
ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

CULTEC RECHARGER 330 XLHD
(N.T.S.)

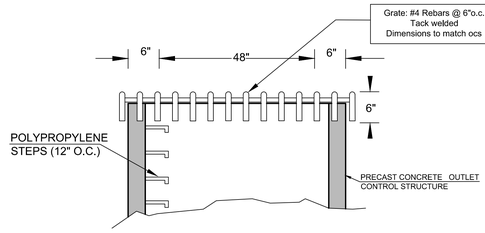


CULTEC HVLV FC-24
N.T.S.

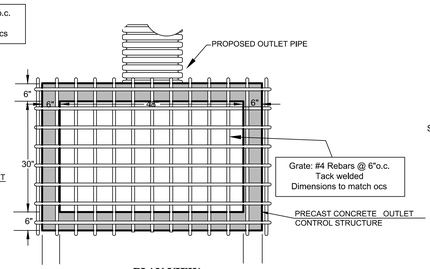
NOTES:
1. HS-20-44 LOADING DESIGN REQUIRED BY THE PRECAST MANUFACTURER
2. SHOP DWGS. OF EACH STRUCTURE TO BE PROVIDED FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO PRODUCTION.
3. WEIR WALL TO BE CAST INTEGRALLY WITH STRUCTURE FLOOR AND WALLS.



INSPECTION PORT
N.T.S.

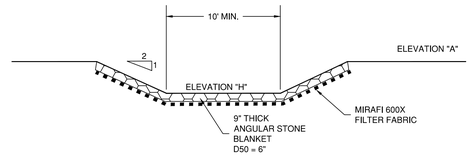


ELEVATION VIEW
N.T.S.

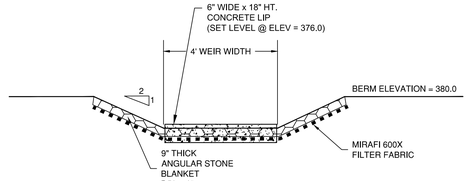


PLAN VIEW
NTS

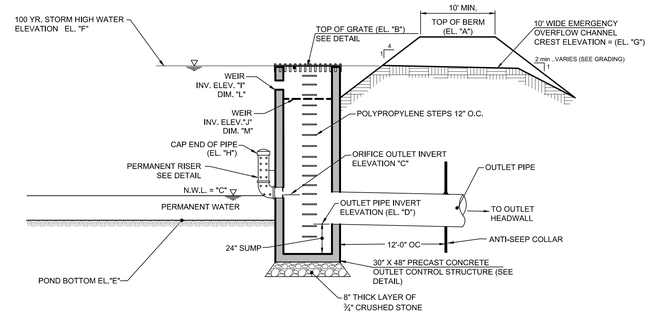
OUTLET STRUCTURE GRATE DETAIL



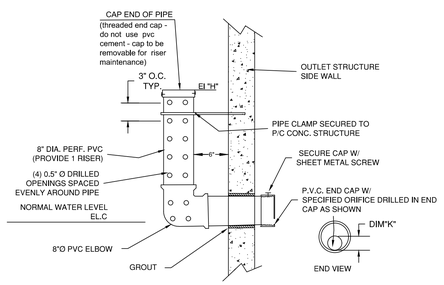
EMERGENCY OVERFLOW CHANNEL: RIP RAP LINING DETAIL
NTS



SWP-4 BASIN OUTLET - RIP RAP CHANNEL W/ CONC. WEIR DETAIL
NTS



X- SECTIONAL VIEW
NTS



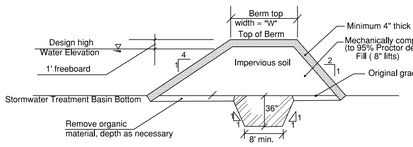
PERMANENT STORMWATER WETLAND "B" RISER DETAIL
N.T.S.

TABLE II

STORMWATER TREATMENT BASIN #	ELEVATIONS										DIMENSIONS	OUTLET PIPE				
	EL. "A"	EL. "B"	EL. "C"	EL. "D"	EL. "E"	EL. "F"	EL. "G"	EL. "H"	EL. "I"	EL. "J"	ORIFICE Ø - DIM "K" (INCHES)	DIM "L" (INCHES)	DIM "M" (INCHES)	DIA./MATERIAL (INCH)	SLOPE	LENGTH
SWP-1	239.00	236.00	234.50	232.00	230.00	238.00	238.00	235.50	-	-	1.1	-	-	15" HDPE	13.25 %	117'
SWP-2	320.50	319.50	316.50	308.00	314.0	319.48	319.50	318.50	319.00	318.50	6	36	24	15" HDPE	6.67 %	60'
SWP - 3	262.80	261.00	259.40	254.00	256.00	261.80	261.80	260.40	260.00	260.00	6	36 x (2)	24 x (2)	36" HDPE x (2)	10.53 %	95'

STORMWATER BASIN OUTLET CONTROL CONFIGURATION
NTS

STORMWATER BASIN BERM DETAIL
N.T.S.



Whenever a berm is to be constructed on a slope:
The subgrade shall be benched to provide level surfaces for proper operation of compaction equipment.

CONSTRUCTION SPECIFICATIONS

1. " EMBANKMENT MATERIAL SHALL CONSIST OF SELECT GLACIAL TILL COMPRISED OF A MIX OF SILT, SAND, CLAY AND GRAVEL FROM ONSITE EXCAVATION. THE PERCENTAGE OF FINES PASSING THE 200 SIEVE SHALL BE AT LEAST 20% BY WEIGHT BORROW MATERIAL SHALL BE TESTED FOR OPTIMUM MOISTURE CONTENT AND PROCTOR MAXIMUM DRY DENSITY. MATERIAL WITH MOISTURE CONTENT IN EXCESS OF OPTIMUM SHALL BE DRIED TO THE REQUIRED OPTIMUM CONTENT BY SPREADING, HARROWING, BLADING OR OTHER APPROVED MEANS PRIOR TO PLACEMENT IN THE BERM. NO STONES GREATER IN SIZE THAN 6 INCHES IN MAXIMUM DIMENSIONS AND NO ORGANIC MATERIAL SHALL BE ALLOWED IN THE EMBANKMENT.
2. THE GROUND SURFACE UNDER THE EMBANKMENT SHALL BE STRIPPED OF ALL VEGETATION, ROOTS, TOPSOIL AND SUBSOIL TO THE DEPTH INDICATED ON THE DETAIL. AFTER STRIPPING TO SUBGRADE THE EARTH SHALL BE MOISTENED, IF DRY, AND COMPACTED BEFORE PLACEMENT OF THE FIRST LAYER OF EMBANKMENT MATERIAL.
3. THE EMBANKMENT SHALL BE CONSTRUCTED IN EVEN EIGHT(8) INCH LIFTS AND MECHANICALLY COMPACTED TO A MINIMUM DRY DENSITY OF 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD COMPACTION TEST.
4. COMPACTION EQUIPMENT
   - A) EMBANKMENT LIFTS-LIFTS SHALL BE COMPACTED WITH A SMOOTH STEEL WHEEL VIBRATORY ROLLER HAVING A NOMINAL GROSS WEIGHT OF NOT LESS THAN 10 TONS AND EXERT A MINIMUM FORCE OF NOT LESS THAN 300 POUNDS PER INCH OF WIDTH ON THE COMPRESSION ROLL FACES.
   - B) SPECIALLY COMPACTED EARTH FILL- WHERE COMPACTION BY MEANS OF THE SPECIFIED ROLLER IS IMPRACTICAL AT SUCH LOCATIONS AS STEEP AND IRREGULAR ABUTMENTS, ROUGH AND IRREGULAR FOUNDATIONS, ADJACENT TO OUTLET WORKS, COMPACTION EQUIPMENT SHALL INCLUDE IMPACT RAMMERS, SMALL DRUM VIBRATORS, OR OTHER APPROVED MECHANICAL TAMPERS. THE MATERIAL, MOISTURE AND DENSITY SHALL BE AS SPECIFIED ABOVE EXCEPT THAT ROCK SIZE SHALL BE LIMITED TO 2 INCHES. LIFT THICKNESS SHALL BE REDUCED IF NECESSARY TO ACHIEVE THE REQUIRED COMPACTION WITH THE EQUIPMENT USED.
5. ANTI-SEEP COLLARS AS SUPPLIED BY SCHEIB DRAINAGE PRODUCTS, OREGON, MO. TO BE INSTALLED ON ALL OUTLET PIPES PENETRATING THE BERM.

NOTE:
SHOP DRAWINGS OF ALL DRAINAGE COMPONENTS SHOULD BE PROVIDED TO OUR OFFICE FOR THEIR REVIEW AND APPROVAL PRIOR TO PRODUCTION / PURCHASING

REVISIONS					
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3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
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DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

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STATE OF NEW YORK · TIMOTHY S. ALLEN · 073434 · LICENSED PROFESSIONAL ENGINEER

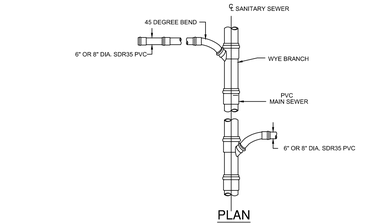
TIMOTHY S. ALLEN, P.E.

CONSTRUCTION DETAILS - PHASE 1

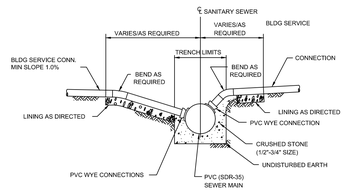
WESTCHESTER MEDICAL VILLAGE
STREET ADDRESS
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

DATE:	JUNE 14, 2019
SCALE:	AS SHOWN
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	16 OF 18
DWG NO.	**D-2**

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PLAN

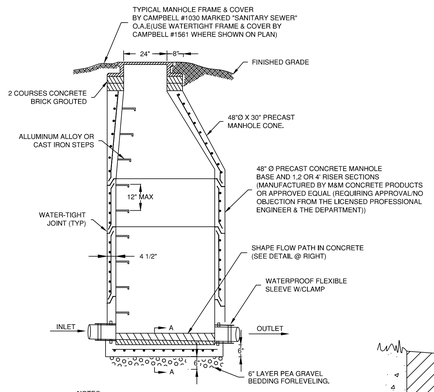


ELEVATION

FINAL SIZE OF INDIVIDUAL BUILDING SEWER SERVICE CONNECTIONS TO BE DETERMINED UPON FINAL DESIGN OF BUILDINGS

SANITARY SEWER BUILDING CONNECTION

N.T.S.

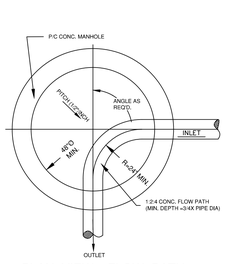


NOTES

1. ALL MANHOLES, MANHOLE COVERS AND CASTING IN ROAD & DRAINAGE AREAS SHALL BE CAPABLE OF SUPPORTING A.A.S.H.T.O. HS- 20-44LOADING
2. ALL SMH JOINTS SHALL BE PARGED AND WATERPROOFED.

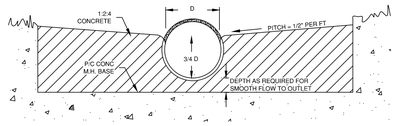
TYPICAL PRECAST SEWER MANHOLE

N.T.S.



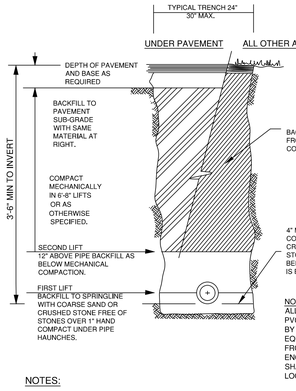
PLAN VIEW : FLOW PATH

N.T.S.



SECTION A-A: FLOW PATH IN MANHOLE

N.T.S.



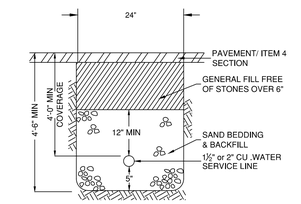
NOTE
ALL NON-PRESSURE SEWERMAINS SHALL BE PVC GRAVITY SEWER PIPE AS MANUFACTURED BY JOHNS-MANVILLE (SDR-35) OR APPROVED EQUAL (REQUIRING APPROVAL/NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT). THIS PIPE SHALL BE BELL AND SPIGOT TYPE WITH LOCKED-IN "RING-TITE " JOINTS.

NOTES:

1. SILT FENCE TO BE INSTALLED AS NEEDED.
2. SEWER MAIN TRENCH TO BE BACK FILLED AND STABILIZED IN 50' INCURMENTS.
3. TRENCH TO BE BACKFILLED ENTIRELY AT END OF EACH WORK DAY.

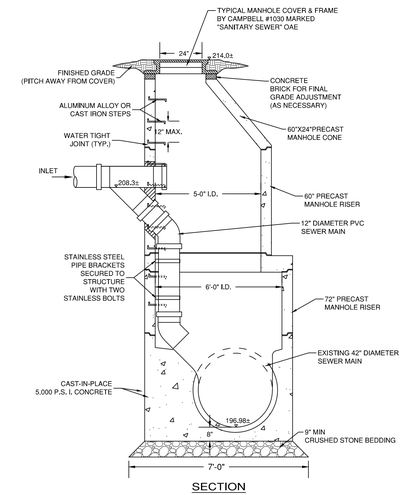
TYPICAL SEWER MAIN INSTALLATION

N.T.S.



WATER SERVICE INSTALLATION DETAIL

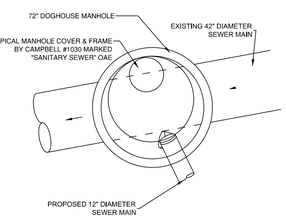
N.T.S.



SECTION

WATER MAIN NOTES:

1. ALL WATER MAINS TO BE DR-18 PIPE WITH PUSH ON JOINTS DIAMETER AS SPECIFIED ON PLAN.
2. ALL PIPE FITTINGS TO BE APPROVED FOR USE WITH AWWA C909 PIPE.
3. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 48 INCHES.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE TOWN OF MOUNT PLEASANT & WESTCHESTER COUNTY HEALTH DEPARTMENT.
5. THE HYDRANTS SHALL BE MANUFACTURED BY THE MUELLER CO. (CENTURIAN TYPE-YELLOW), OR APPROVED EQUAL BY THE TOWN OF MOUNT PLEASANT & REQUIRING APPROVAL/NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT.
   THE HYDRANTS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE AWWA SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C502-53 AND
   AS FOLLOWS:
   - 5 INCH HYDRANT MAIN VALVE OPENING
   - 6 INCH FLANGE INLET
   - TWO 2 1/2 INCH HOSE NOZZLES
   - ONE 4 INCH STEAMER NOZZLE
   - OPERATING NUT, TURN COUNTERCLOCKWISE TO OPEN
   - 4'-6" TRENCH DEPTH (GROUND SURFACE TO CENTERLINE OF BRANCH)
6. IF GROUNDWATER IS FOUND WITHIN SEVEN(7) FEET OF THE GROUND SURFACE THEN HYDRANT DRAINS SHOULD BE PLUGGED, WHEN THE DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANT DRAINS ARE NOT PLUGGED A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS OR STORM DRAINS. HYDRANT DRAINS, WHERE ALLOWED, MUST BE ABOVE THE SEASONAL GROUNDWATER TABLE.
7. GATE VALVES SHALL BE RESILIENT SEAT, U.S. PIPE METRO-SEAL 250 DESIGNED FOR 250 PSI WORKING PRESSURE OR APPROVED EQUAL (REQUIRING APPROVAL/NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT), VALVE BOXES SHALL BE OF THE ADJUSTABLE TELESCOPE TYPE WITH A 5 1/4 INCH SHAFT, SUITABLE FOR A TRENCH 4'-6" DEEP AND DESIGNED FOR HEAVY TRAFFIC. THEY SHALL BE MANUFACTURED BY THE MUELLER COMPANY. THE COVERS SHALL BE MARKED "WATER".
8. ALL DOMESTIC WATER SERVICE TO BE SIZES AS SHOWN ON THE WATER SERVICE DETAIL K-COPPER UNLESS OTHERWISE SPECIFIED. CORPORATION STOPS TO BE MUELLER B-250008.
9. CURB STOPS, SHALL BE AN APPROVED BRAND COMPLYING WITH AWWA C-800.
10. CURB BOXES SHALL BE AN APPROVED BRAND COMPLYING WITH AWWA C-800.
11. ALL TEES, BENDS AND HYDRANT ASSEMBLIES SHALL BE BLOCKED WITH CONCRETE THRUST BLOCKS. THRUST BLOCKS SHALL BE 3,000 PSI CONCRETE, ALL BLOCKING SHALL BE SET AGAINST UNDISTURBED EARTH. ALL TESTS SHALL BE WITNESSED BY A LICENSED PROFESSIONAL ENGINEER.
12. ALL CONSTRUCTION SHALL BE CERTIFIED AND APPROVED BY A N.Y.S.P.E. RETAINED BY THE CONTRACTOR. ALL TESTS SHALL BE WITNESSED BY A LICENSED PROFESSIONAL ENGINEER, COPIES OF ALL TEST RESULTS SHALL BE SUBMITTED TO THE TOWN ENGINEER, WATER DEPARTMENT SUPERINTENDENT, AND WESTCHESTER COUNTY HEALTH DEPARTMENT.
13. A 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED FROM THE WATER LINE TO ALL UNDERGROUND UTILITIES, ALL CROSSINGS SHALL BE MADE AS NEARLY PERPENDICULAR AS POSSIBLE WITH A MIN. OF 18" VERTICAL SEPARATION.
14. NO WATER SERVICE LINES SHALL BE TAPPED BETWEEN A FIRE HYDRANT AND SHUT OFF VALVE FOR THE HYDRANT.
15. BACKFLOW PREVENTERS SHALL BE INSTALLED WHERE REQUIRED.
16. ALL FITTINGS AND HYDRANTS TO BE MUELLER OR APPROVED EQUAL BY THE TOWN OF MOUNT PLEASANT & REQUIRING APPROVAL;NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT) BY THE TOWN OF MOUNT PLEASANT ,
17. ALL DWELLINGS SHALL BE INDIVIDUALLY METERED



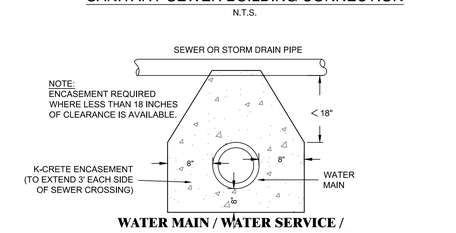
PLAN

NOTES:

1. ALL MANHOLES, MANHOLE COVERS AND CASTING IN ROAD & DRAINAGE AREAS SHALL BE CAPABLE OF SUPPORTING A.A.S.H.T.O. HS- 20-44 LOADING.
2. ALL SMH JOINTS SHALL BE PARGED AND WATERPROOFED.
3. FINAL CONNECTION DETAIL TO BE COORDINATED WITH WCDEF

WESTCHESTER COUNTY SEWER TRUNK CONNECTION MANHOLE

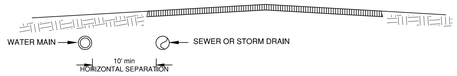
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WATER MAIN / WATER SERVICE / SANITARY SEWER- DRAINAGE PIPE ENCASEMENT DETAIL

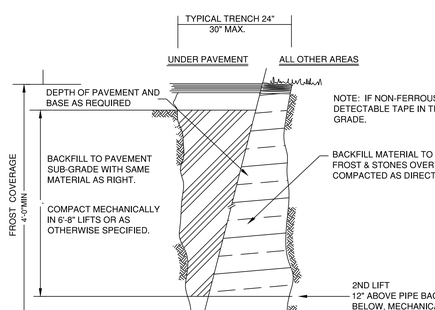
NOTE:

WHERE 18" VERTICAL OR 10 FT HORIZONTAL CLEARANCE CANNOT BE ACHIEVED, THE PROJECT ENGINEER SHALL SUBMIT, FOR PRIOR APPROVAL TO THE WESTCHESTER COUNTY HEALTH DEPARTMENT, A DETAIL FOR COMPENSATING VARIATION OF THE MINIMUM REQUIRED SEPARATIONS.



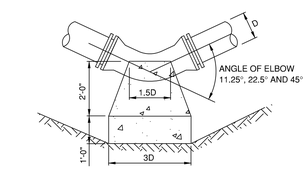
DETAILS - PARALLEL INSTALLATION - WATER LINE TO SEWER OR STORM DRAIN

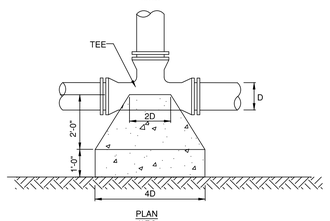
NTS

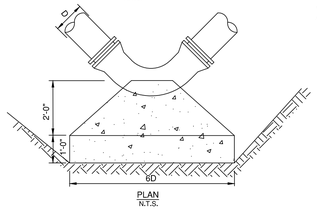


TYPICAL WATER MAIN TRENCH

N.T.S.



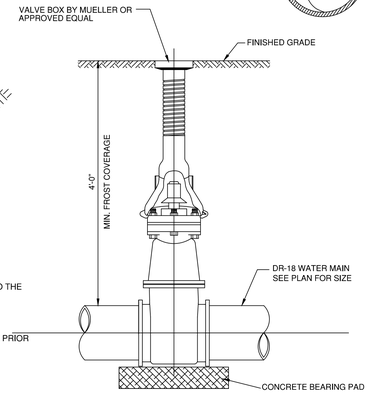




1. ABOVE THRUST BLOCK DESIGN IS BASED ON 150psi. MAX. TEST PRESSURE.
2. ALL DIMENSIONS SHOWN ARE MINIMUM.
3. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, HYDRANTS, DEAD ENDS, AND ALL BENDS ON THE WATER DISTRIBUTION MAIN. ALL CONCRETE SHALL BE 1:2:4 MIX 3000 PSI AT 28 DAYS.
4. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE THRUST BLOCK INSTALLATION.
5. THE EXCAVATION OF THRUST BLOCK LOCATIONS SHALL RECEIVE SPECIAL
6. THRUST BLOCK DESIGN BASED ON 3000 LBS./SF. SOIL BEARING CAPACITY.
7. CONTRACTOR SHALL VERIFY THE EXISTING SOIL CONDITIONS.
8. IF UNUSUAL HIGH OPERATING/OR TESTING ARE EXPECTED, THE DESIGN ENGINEER SHOULD BE NOTIFIED PRIOR TO THRUST BLOCK INSTALLATION.
9. SPECIFIED COMPONENTS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
10. USE SAME DIMENSIONS AS TEE FOR THE DEAD ENDS.

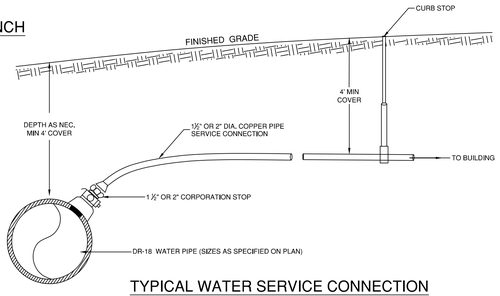
CONCRETE THRUST BLOCK

N.T.S.



GATE VALVE

N.T.S.



TYPICAL WATER SERVICE CONNECTION

N.T.S.

SANITARY SEWER NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF MOUNT PLEASANT AND WESTCHESTER COUNTY HEALTH DEPARTMENT STANDARDS AND SPECIFICATIONS.

1. SANITARY MANHOLES SHALL BE PRECAST IN ACCORDANCE WITH APPROVED STANDARDS SHALL BE INSTALLED AT EVERY CHANGE IN ALIGNMENT AND DIFFERENCE IN ELEVATION OF INCOMING AND OUTGOING SEWERS.
2. INFILTRATION, EXFILTRATION AND VISUAL TESTS BY MEANS OF LIGHT FLASHING BETWEEN MANHOLES SHALL BE AS PER REQUIREMENTS OF THE PROJECT ENGINEER. NO TESTS SHALL BE MADE UNTIL TWO (2) WEEKS AFTER BACKFILLING OF SANITARY SEWERS OR LONGER, UNLESS IN THE OPINION OF THE PROJECT ENGINEER CONDITIONS WARRANT IT.
3. MINIMUM COVER FOR SANITARY SEWER LINES SHALL BE 3'-6" TO INVERT, THE COVER MAY BE REDUCED WITH THE APPROVAL OF THE PROJECT ENGINEER AND WESTCHESTER COUNTY HEALTH DEPARTMENT UPON JUSTIFICATION. SEWER PIPE BETWEEN SEWER MANHOLES SHALL BE (TBD) DIAMETER PVC WITH A MINIMUM SLOPE OF 0.5%
4. ALL TESTS SHALL BE CONDUCTED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NY.
5. COPIES OF ALL TEST RESULTS SHALL BE SUBMITTED TO THE TOWN OF MOUNT PLEASANT SEWER DEPARTMENT, THE WESTCHESTER COUNTY HEALTH DEPARTMENT, AND THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION..
6. ALL GRAVITY SANITARY SEWER PIPES SHALL BE (TBD) DIAMETER RING-TYPE PVC GRAVITY SEWER PIPE, MANUFACTURED BY JM EAGLE OR APPROVED EQUAL (REQUIRING APPROVAL/NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT), THE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D3034 FOR SDR-35.
7. ALL FORCEMAIN SANITARY SEWER PIPES SHALL BE 4 INCH DIAMETER RING-TYPE PVC GRAVITY SEWER PIPE, JM EAGLE OR OR APPROVED EQUAL (REQUIRING APPROVAL/NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT). THE PIPE AND FITTING SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D3034 FOR SDR-21.
8. THE LEAKAGE EXFILTRATION OR INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 5 FEET. (5 FEET FOR WCDEF SEWERS)
9. SEWER LINES SHALL BE TESTED FOR WATERTIGHT INTEGRITY USING LOW PRESSURE AIR TESTING PROCEDURES AS SPECIFIED IN ASTM C 828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F 1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS TEST PROCEDURES APPROVED BY THE WESTCHESTER CONTY HEALTH DEPARTMENT.
10. SEWER MANHOLES SHALL BE TESTED FOR WATERTIGHT INTEGRITY THROUGH A HYDROSTATIC TEST FOR EXFILTRATION OR BY VACUUM TESTING.
11. SANITARY MANHOLES SHALL BE PRECAST CONCRETE AND CONFORM TO AASHTO HS-20-44 LOADING DESIGN CRITERIA.
12. ALL INDIVIDUAL BUILDING CONNECTIONS SHALL BE 4" DIAMETER WITH A MINIMUM 2% SLOPE OR 6" DIAMETER WITH 1% SLOPE. CLEANOUTS SHALL BE USED AT CHANGES IN GRADE OR HORIZONTAL ALIGNMENT.
13. ALL SANITARY SEWER COMPONENTS WILL MAINTAIN 10' CLEAR HORIZONTAL SEPARATION WHEN INSTALLED PARALLEL TO WATER WATER MAINS AND SERVICES AND 18" CLEAR WHEN CROSSING.
14. DEFLECTION TEST
    A. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM.
    B. NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT, IF DEFLECTION EXCEEDS 5 PERCENT, THE PIPE SHALL BE EXCAVATED, REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH REQUIREMENTS IN THE APPROVED SPECIFICATIONS.
    C. THE RIGID BALL OR MANDREL USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
15. THE WESTCHESTER COUNTY HEALTH DEPARTMENT SHALL BE NOTIFIED 48 HOURS, IN WRITING, IN ADVANCE OF ANY SEWER MAIN TESTING.

WATER MAIN PRESSURE TESTING

ALL WATER MAIN SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C600 LATEST REVISION. THE WESTCHESTER COUNTY HEALTH DEPARTMENT SHALL BE NOTIFIED 48 HOURS, IN WRITING, IN ADVANCE OF PRESSURE TESTING.

AFTER THE MAINS HAVE BEEN PLACED AND PARTIALLY BACKFILLED THE MAIN SHALL BE SUBJECTED TO A PRESSURE TEST OF AT LEAST (2) HOURS.

THE LINE SHALL BE SLOWLY FILLED WITH WATER AND THE SPECIFIED TEST PRESSURE SUPPLIED BY A PUMP CONNECTED TO THE SYSTEM IN A MANNER SATISFACTORY TO THE ENGINEER. THE TEST PRESSURE SHALL NOT BE LESS THAN 1.5 TIMES THE OPERATING PRESSURE AT THE POINT OF TESTING OR NOT LESS THAN 1.25 TIMES THE OPERATING PRESSURE AT THE HIGHEST POINT ALONG THE TEST SECTION. THE ALLOWABLE PRESSURE VARIATIONS ARE ± 5.0 PSI FOR THE DURATION OF THE TEST.

BEFORE APPLYING TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE BY MEANS OF CORPORATION COCKS OR AIR RELEASE VALVES AT ALL HIGH POINTS. AFTER ALL AIR HAS BEEN RELEASED, THE COCKS SHALL BE CLOSED AND THE TEST PRESSURE APPLIED.

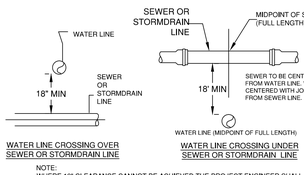
A LEAKAGE TEST SHALL BE CONDUCTED, ALONG WITH THE PRESSURE TEST, THE DURATION OF THE LEAKAGE TEST SHALL BE TWO (2) HOURS. THE FORMULA FOR ALLOWABLE LEAKAGE IS:

L = SD P / 148,000
L = ALLOWABLE LEAKAGE IN GPH
S = LENGTH OF PIPE TESTED, IN FEET
D = NOMINAL DIAMETER OF PIPE, IN INCHES
P = AVERAGE GAUGE PRESSURE IN PSI

WATER MAIN DISINFECTION/SAMPLING AND ANALYSIS

DISINFECTION OF THE NEW MAIN AND APPURTENANCES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651, LATEST REVISION, EXCEPT SECTION 5.1 WHICH IS NOT APPROVABLE, BEFORE BEING CHLORINATED, THE NEW MAIN SHALL BE FILLED TO ELIMATE AIR POCKETS AND FLUSHED TO REMOVE PARTICULATES. THE NEW MAIN SHALL BE FILLED WITH WATER FROM THE EXISTING DISTRIBUTION SYSTEM OR OTHER SOURCE OF SUPPLY SO CONTROLLED AS TO FLOW SLOWLY INTO THE NEW MAIN DURING THE APPLICATION OF CHLORINE. THE RATE OF CHLORINE MIXTURE FLOW SHALL BE IN SUCH PROPORTION OF RATE OF WATER ENTERING THE PIPE THAT THE CHLORINE DOSE APPLIED SHALL PRODUCE AT LEAST 25 MG/L RESIDUAL INITIALLY AND A 10 MG/L READING AFTER 24 HOURS.

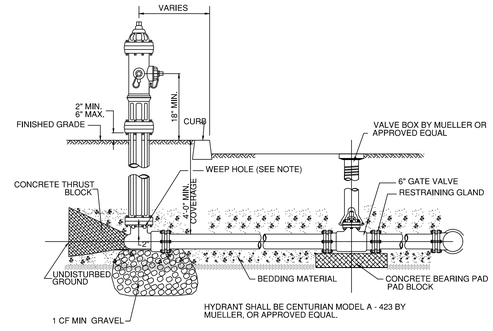
FOLLOWING THIS PROCEDURE, THE NEW MAIN SHALL BE THOROUGHLY FLUSHED AND FILLED WITH WATER FROM THE APPROVED WATER SOURCE. SAMPLES SHALL BE COLLECTED FROM THE MAIN AND TESTED BY AN APPROVED LABORATORY FOR BACTERIA AND COLIFORM ORGANISMS. SAMPLING AND ANALYSIS SHALL BE REPEATED 24 HOURS FROM THE FIRST SAMPLING. THE RESULTS SHALL BE SUBMITTED TO, AND APPROVED BY THE WESTCHESTER COUNTY HEALTH DEPARTMENT BEFORE PLACING ANY SECTION OF THE NEW MAIN INTO USE.



NOTE:
WHERE 18" CLEARANCE CANNOT BE ACHIEVED THE PROJECT ENGINEER SHALL SUBMIT, FOR PRIOR APPROVAL A DETAIL FOR A COMPENSATING METHOD OF CROSSING TO THE WESTCHESTER COUNTY HEALTH DEPARTMENT.

SEWER LINE / WATER LINE CROSSING

N.T.S.



HYDRANT

N.T.S.

(OR APPROVED EQUAL REQUIRING APPROVAL/NO OBJECTION FROM THE LICENSED PROFESSIONAL ENGINEER & THE DEPARTMENT))

NOTE:

1. IF GROUNDWATER IS FOUND WITHIN SEVEN(7) FEET OF THE GROUND SURFACE THEN HYDRANT DRAINS SHOULD BE PLUGGED, WHEN THE DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANT DRAINS ARE NOT PLUGGED A GRAVEL POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS OR STORM DRAINS.
2. HYDRANT DRAIN WHERE ALLOWED, MUST BE ABOVE SEASONAL GROUND WATER TABLE.

NOTE:
SHOP DRAWINGS OF ALL SEWER AND WATER COMPONENTS SHOULD BE PROVIDED TO OUR OFFICE FOR THEIR REVIEW AND APPROVAL PRIOR TO PRODUCTION / PURCHASING

REVISIONS						
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK · TIMOTHY S. ALLEN · 073434 · LICENSED PROFESSIONAL ENGINEER

TIMOTHY S. ALLEN, P.E.

SEWER & WATER DETAILS - PHASE 1

WESTCHESTER MEDICAL VILLAGE
STREET ADDRESS
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

DATE:	JUNE 14, 2019
SCALE:	AS SHOWN
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	17 OF 18
DWG NO.	**D-3**

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTIONS 7209.(H) OF THE NEW YORK STATE EDUCATION LAW

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CRITICAL AREA SEEDING SPECIFICATION

This practice applies to all disturbed areas void of vegetation except where specific seeding/planting recommendations exist in other standards and specifications for specific uses such as recreation.

SEEDING

Site preparation: scarify ground surface for Seedbed preparation if compacted. Remove debris and obstacles such as rocks and roots.

Soil Amendments

1) Lime to PH 6.0
2) Fertilize with 600lbs. of 5-10-10 or equivalent per acre (14lbs./1000 sq.ft.).

Seed Mixtures

1) Temporary Seedings
   a. Ryegrass (annual or perennial) @ 30lbs. per acre (0.7 lbs/ 100sq.ft.),
   b. Certified "aroostook" winter rye (cereal rye) @ 100 lbs. per acre (2.5lbs./1000 sq.ft.), Use winter rye if seeding in October/November.

2) Permanent Seedings
   a. Rough or occasionally mowed areas:

	lbs./acre	lbs./1000sq.ft .
Empire birdsfoot trefoil (1)	8	0.20
OR		
Common white clover(1)	8	0.20
PLUS		
Tall fescue	20	0.45
PLUS		
Redtop	2	0.05
OR		
Ryegrass (perennial)	5	0.10

(1) add innoculant immediately prior to seeding.

Time of seeding

The optimum time for permanent seedings with legumes (birdsfoot trefoil or clover) is early spring.

Permanent seedings may be any time of the year if properly mulched and adequate moisture is provided. Mid summer is not a good time to seed, but these seedings if construction is complete, will facilitate covering the land. Portions may fail and may need reseeding the following year.

Temporary seedings should be made within 24 hours of construction or disturbance. If not, the soil must be scarified prior to seeding.

Method of seeding

Broadcasting, drilling with cultipack type seeder or hydroseeding are acceptable. Good soil-to-seed contact is the key to successfull seedings.

MULCHING AND MULCH ANCHORING:

Mulching is essential to obtain a uniform stand of plants.

Mulching

The mulching specifications provided hereon apply to any disturbed areas or exposed slopes 20' vertical or greater that are exposed outside of the spring and fall grass growing season.

Mulch Material: Air-dried hay or straw free of undesirable seeds and coarse materials.

Application Rate: 90-100 lbs per 1000 s.f.
or
2 tons per acre.

Recommended Surface Coverage: Approximately 90%

Mulch Anchoring Material: Biodegradable Mulch netting; light weight paper, jute wood fiber, or photodegradable plastic netting

Method of Anchoring Application: Staple mulch netting (light-weight paper, jute wood fiber, or plastic netting) to soil surface in accordance with netting manufacturer's recommendations.

IRRIGATION

Watering may be essential to establish a new seeding. Weather conditions and the intended use of the area will dictate when to water. Irrigation is a specialized practice and care needs to be taken not to exceed the application rate/infiltration rate of a given soil.

Each application must be uniformly applied and 1 to 2 inches of water should be applied per application set up.

SOIL RESTORATION NOTES

PROPER SOIL RESTORATION TECHNICS SHALL BE CONDUCTED WHERE SOIL DISTURBANCE OCCURS ONSITE IN ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN SECTION 5.1.6 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL. AT A MINIMUM, THE FOLLOWING SOIL RESTORATION MEASURES SHOULD BE TAKEN DURING CONSTRUCTION:

1. A NEW 6 INCH LAYER OF TOPSOIL SHALL BE SPREAD WHEREVER THE EXISTING TOPSOIL HAS BEEN STRIPPED.

2. DE-COMPACTION SHALL BE PERFORMED IN AREAS THAT EXPERIENCE HEAVY TRAFFIC DURING CONSTRUCTION AND EXISTING IMPERVIOUS AREAS WHICH ARE TO BE CONVERTED TO PERVIOUS AREAS.

3. THE AREA OF THE PROPOSED INFILTRATION PRACTICES SHALL BE PROTECTED DURING CONSTRUCTION TO MAINTAIN NATURE AND HEALTHY SOIL CONDITIONS.

New York State Stormwater Management Design Manual
Chapter 5: Green Infrastructure Practices
Section 5.1 Planning for Green Infrastructure Preservation of Natural Features and Conservation Design

Table 5.3 Soil Restoration Requirements

Type of Soil Disturbance	Soil Restoration Requirement		Comments/Examples
No soil disturbance	Restoration not permitted		Preservation of Natural Features
Minimal soil disturbance	Restoration not required		Clearing and grubbing
Areas where topsoil is stripped only - no change in grade	HSG A &B	HSG C&D	Protect area from any ongoing construction activities.
	apply 6 inches of topsoil	Aerate* and apply 6 inches of topsoil	
Areas of cut or fill	HSG A &B	HSG C & D	
	Aerate and apply 6 inches of topsoil	Apply full Soil Restoration **	
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls)	Apply full Soil Restoration (de-compaction and compost enhancement)		
Areas where Runoff Reduction and/or Infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.		Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area
Redevelopment projects	Soil Restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area.		

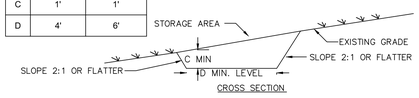
*Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

** Per "Deep Ripping and De-compaction, DEC 2008".

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	SWALE A	SWALE B
C	1'	1'
D	4'	6'



CROSS SECTION

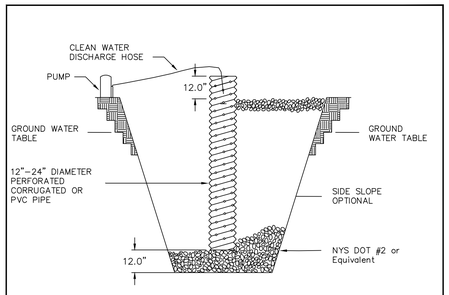
POSITIVE DRAINAGE 0.5% OR STEEPER DEPENDENT ON TOPOGRAPHY

CONSTRUCTION DITCH SPECIFICATIONS

1. ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON–EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE DITCH SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TYPE OF TREATMENT	CHANNEL GRADE	FLOW CHANNEL	
		SWALE A	SWALE B
1	0.5%-3.0%	SEED & STRAW MULCH	SEED & STRAW MULCH
2	3.1%-5.0%	SEED & STRAW MULCH	SEED AND COVER WITH RECP. SOD, OR LINED WITH PLASTIC OR 2" STONE
3	5.1%-8.0%	SEED AND COVER WITH RECP. SOD, OR LINED WITH PLASTIC OR 2" STONE	LINE WITH 4"-8" RIP-RAP OR GEO-TEXTILE
4	8.1%-10%	LINE WITH 4"-8" RIP-RAP OR GEO-TEXTILE	SITE SPECIFIC DESIGN

	SWALE A	SWALE B
DRAINAGE AREA	<5 Ac	5-10 Ac
BOTTOM WIDTH OF FLOW CHANNEL	4'	6'
DEPTH OF FLOW CHANNEL	1'	1'
SIDE SLOPES	2:1 OR FLATTER	2:1 OR FLATTER
GRADE	0.5% MIN 10% MAX	0.5% MIN 10% MAX

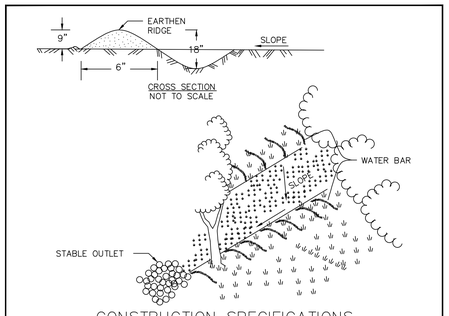


CONSTRUCTION SPECIFICATIONS

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12–24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12–18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"–1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH.

U.S. DEPARTMENT OF AGRICULTURE
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NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SUMP PIT

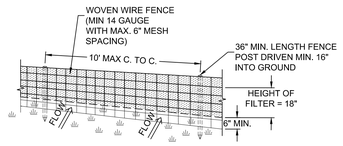


CONSTRUCTION SPECIFICATIONS

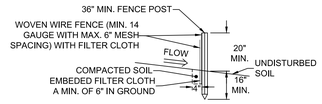
1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
2. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
4. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
5. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

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WATER BARS



PERSPECTIVE VIEW

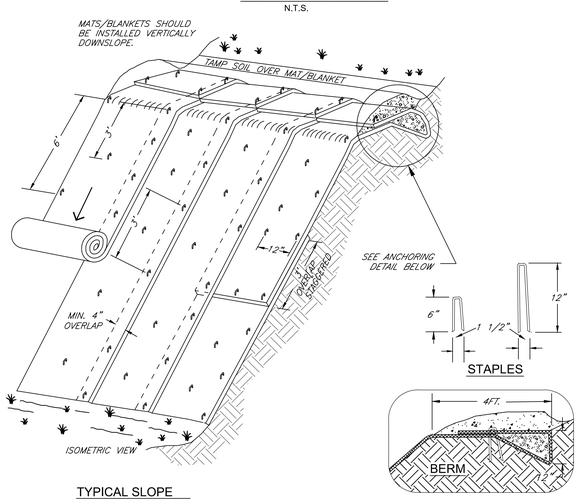


SECTION VIEW

CONSTRUCTION SPECIFICATIONS:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL WITHER "T" OR "U" TYPE OR HARDWOOD
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

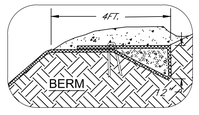
SILT FENCE DETAIL

N.T.S.



TYPICAL SLOPE SOIL STABLIZATION

STAPLES

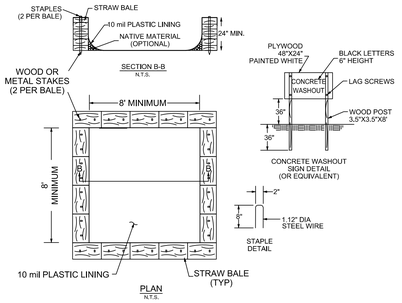


ANCHORING DETAIL

EROSION BLANKETS INSTALLATION

NTS

CURLEX 1 BLANKET OR APPROVED EQUAL TO BE UTILIZED ON ALL NEW EMBANKMENTS SLOPED GREATER THAN 1 ON 3

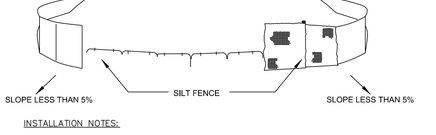


CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 100 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 6 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 8 FEET X 8 FEET X 2 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER, FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED), EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER, WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER, PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS, REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING, MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.
6. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.

TYPICAL ABOVE GRADE CONCRETE TRUCK WASHOUT

N. T. S.

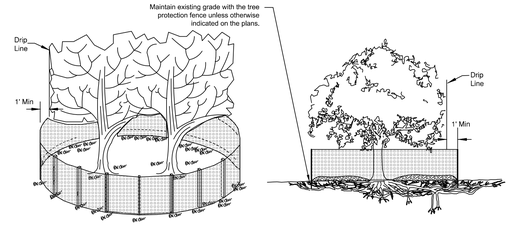


INSTALLATION NOTES:

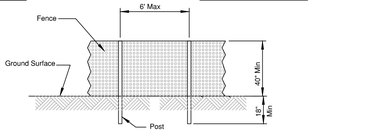
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
2. MAXIMUM SLOPE OF STOCKPILING SHALL BE 1:2
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SILTATION FENCE DETAIL.

SOIL STOCKPILE DETAIL

N.T.S.



TREE GROUP INDIVIDUAL TREE



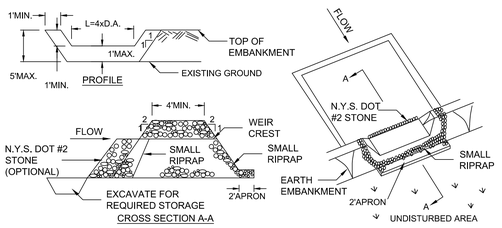
POST AND FENCE DETAIL

EXISTING TREE PROTECTION

N.T.S.

TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY.

NOTES:
1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. FENCE POSTS SHALL BE EITHER STANDARD STEEL OR 2" X 6" WOOD POSTS OR APPROVED EQUAL.
3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR APPROVED EQUAL.
4. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
5. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.



OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

NOTE: REQUIRED STORAGE SHALL BE 3,600 CU.FT. PER ACRE OF DRAINAGE AREA MAXIMUM DRAINAGE AREA 5 ACRES

STONE OUTLET SEDIMENT TRAP ST-IV

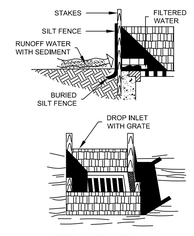
N.T.S.

CONSTRUCTION SPECIFICATIONS

1. 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 AND 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.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMEN-SIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SEDIMENT TRAP SIZING

	SEDIMENT TRAP #1		SEDIMENT TRAP #2		SEDIMENT TRAP #3		SEDIMENT TRAP #4	
DRAINAGE AREA	3.4 Ac		3.4 Ac		4.4 Ac		3.3 Ac	
REQUIRED STORAGE VOLUME	12,240 cu.ft.		12,240 cu.ft.		15,840 cu.ft.		11,880 cu.ft.	
CUMULATIVE STORAGE PROVIDED (cu.ft.)	ELEV	STORAGE	ELEV	STORAGE	ELEV	STORAGE	ELEV	STORAGE
	380'	0	331'	0	338'	0	238'	0
	381'	3,019	332'	3,019	339'	6,089	239'	2,485
	382'	6,592	333'	6,592	340'	12,870	240'	5,359
	383'	10,753	334'	10,753	341'	20,369	241'	8,649
	384'	15,532	335'	15,532	342'	28,611	242'	12,379
TOTAL STORAGE PROVIDED	14,720 cu.ft.		14,720 cu.ft.		26,157 cu.ft.		12,379 cu.ft.	
STONE OUTLET WIDTH	14'		14'		18'		14'	

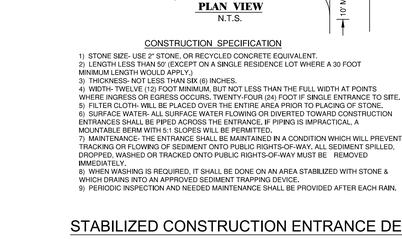


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLCABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5% WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 c.f.s.) ARE TYPICAL) WHERE SLOPES OF FLOWS ARE GREATER OR WHERE CONCENTRATED FLOWS ARE ANTICIPATED, USE HORIZONTAL BRACES ACROSS STAKES AND SURROUND SILT FENCE WITH CRUSHED STONE.

SILT FENCE DROP INLET SEDIMENT FILTER

N.T.S.

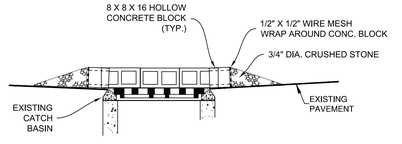


CONSTRUCTION SPECIFICATION

1) STONE SIZE- USE 2" STONE, OR RECYCLED CONCRETE EQUIVALENT.
2) LENGTH LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
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 THE 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) MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8) WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE & WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9) PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



STONE & CONC. BLOCK DROP INLET PROTECTION

N. T. S.

THIS METHOD OF INLET PROTECTION IS APPLCABLE FOR EXISTING CATCH BASINS LOCATED ON THE EXISTING PAVED DRIVEWAY.

REVISIONS

DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK
12-9-19	REVISED DRAINAGE & UTILITIES	RH/NG	2-2-21	DEIS COMMENTS	NG
3-17-20	DEIS COMPLETENESS REVIEW	NG/TA	5-12-21	FEIS COMMENTS	NG
6-25-20	SEWER MAIN REVISION	NG/TA			

STATE OF NEW YORK TIMOTHY S. ALLEN 073434 LICENSED PROFESSIONAL ENGINEER

TIMOTHY S. ALLEN, P.E.

EROSION CONTROL DETAILS - PHASE 1

WESTCHESTER MEDICAL VILLAGE
STREET ADDRESS
TOWN OF MOUNT PLEASANT, WESTCHESTER COUNTY

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	JUNE 14, 2019
SCALE:	AS SHOWN
FILE:	12-D
DSGN / CHK:	NG/TA
DRN. BY:	RH
SHT NO.	18 OF 18
DWG NO.	**D-4**