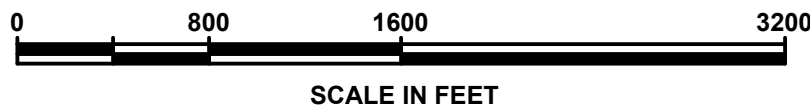
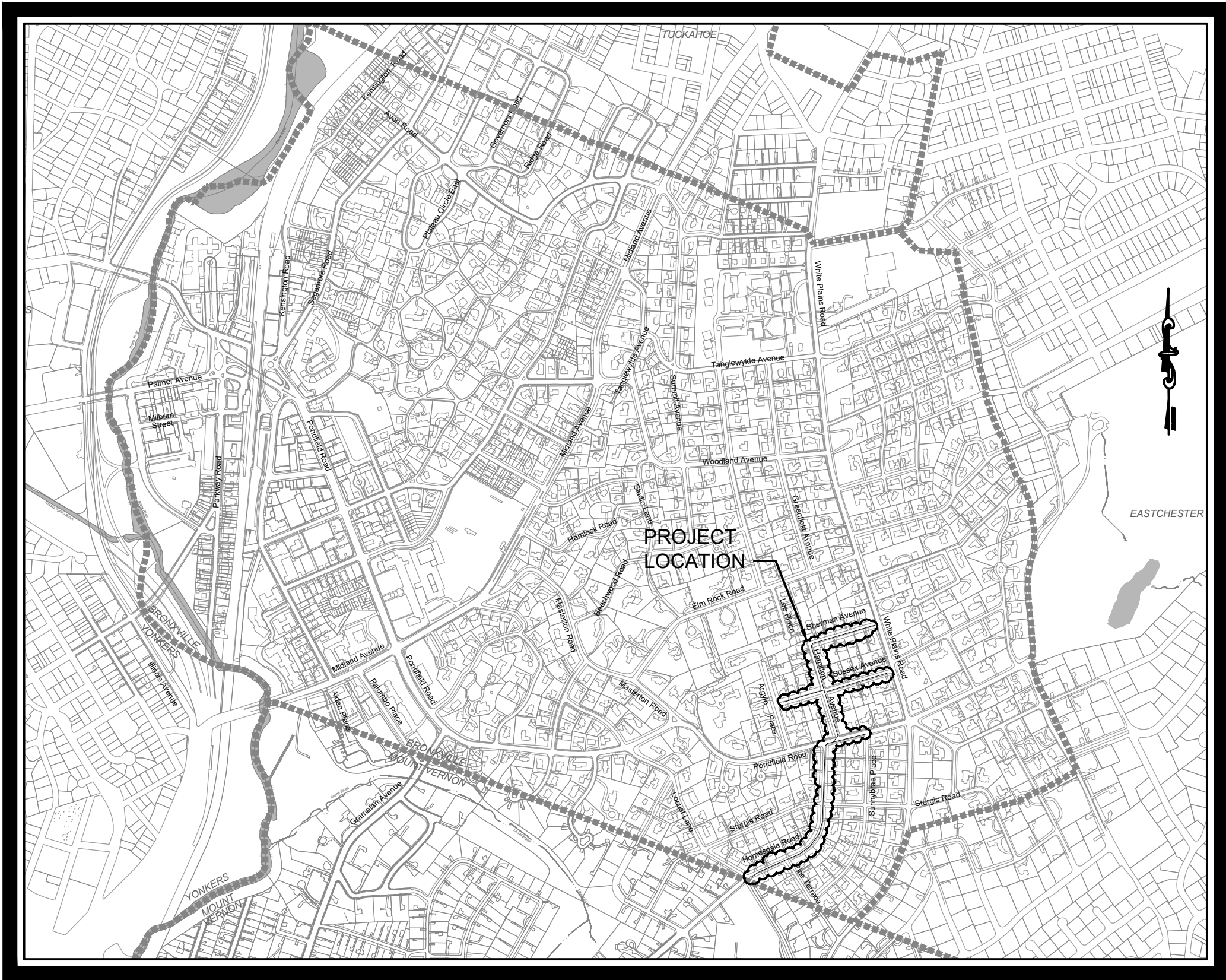


CONTRACT NO. VA 2022-06-1
HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD
DRAINAGE IMPROVEMENTS
VILLAGE OF BRONXVILLE
WESTCHESTER COUNTY, NEW YORK

GENERAL NOTES:

1. INFORMATION SHOWN OR NOTED IS APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EXISTING GRADES, DRAINAGE PIPES, ROADWAYS, WALKWAYS, AND OTHER UTILITIES WHICH MAY AFFECT THE CONTRACT WORK.
2. CONTRACTOR SHALL FOLLOW OSHA SAFETY AND HEALTH STANDARDS (29 CFR1925/1910/1926, LATEST REVISIONS) AS WELL AS ALL STATE AND LOCAL REQUIREMENTS.
3. ALL DISTURBED AREAS AND GRADES SHALL BE RESTORED TO EXISTING CONDITIONS.
4. CONTRACTOR SHALL NOT ENCROACH UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER. MATERIALS STORED WITHIN OR NEAR THE WORKSITE SHALL BE SO PLACED AS TO CAUSE MINIMAL OBSTRUCTION TO THE PUBLIC.
5. CONTRACTOR SHALL PROTECT TREES, SHRUBBERY, AND OTHER NATURAL FEATURES OR STRUCTURES.
6. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF ALL UTILITIES AND SHALL "MARK OUT" EACH UTILITY PRIOR TO PROCEEDING WITH ANY EXCAVATING OR SITE WORK. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO ALL UTILITIES BY MEANS OF CODE 753.
7. CONTRACTOR SHALL ESTABLISH OR VERIFY DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, AND THEIR LOCATIONS WITH THE REQUIRED ACCURACY WHERE NEEDED.
8. SUBMISSION OF THE CONTRACTOR'S BID IMPLIES THAT HE/SHE HAS EXAMINED THE EXISTING FACILITIES BY MEANS OF SITE INSPECTION AND OTHER MEANS, AND IS THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE WORK. ADDITIONAL COMPENSATION REQUESTS WILL NOT BE CONSIDERED BECAUSE OF THE CONTRACTOR'S FAILURE TO INFORM HIMSELF OF THE SITE CONDITIONS AND CONTRACT REQUIREMENTS.
9. ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE LOCAL CODES HAVING JURISDICTION OVER THE WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS, PUBLIC, AND PERSONNEL. CONTRACTOR SHALL PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARDRAILS AS REQUIRED.
11. ANY DISRUPTION IN BUILDING SERVICES SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE OWNER.
12. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
13. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES.
14. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER OR THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR OWNER AND FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
15. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE PROPERTIES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL NEW WORK AND EQUIPMENT INSTALLED AND EXISTING WORK UNTIL FINAL ACCEPTANCE BY THE ENGINEER AND OWNER.
17. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES (BMP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
18. ALL CONSTRUCTION ACTIVITIES FOR THE REMOVAL OF SEDIMENTS AND STORM WATER MANAGEMENT SHALL BE IN STRICT COMPLIANCE WITH THE PERMIT (GP-0-20-001) AND APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP).



LOCATION MAP
SCALE: 1" = 800 Feet

MAYOR AND BOARD OF TRUSTEES

Mary C. Marvin, Mayor
Robert S. Underhill, Deputy Mayor
Helen Knapp, Trustee
William C. Fredericks, Trustee
Mary Taylor Behrens, Trustee

James M. Palmer, Village Administrator
Victor J. Lema, General Foreman

DOCUMENTS REVIEWED AND APPROVED BY
VILLAGE OF BRONXVILLE, NEW YORK.

JIM PALMER, VILLAGE ADMINISTRATOR

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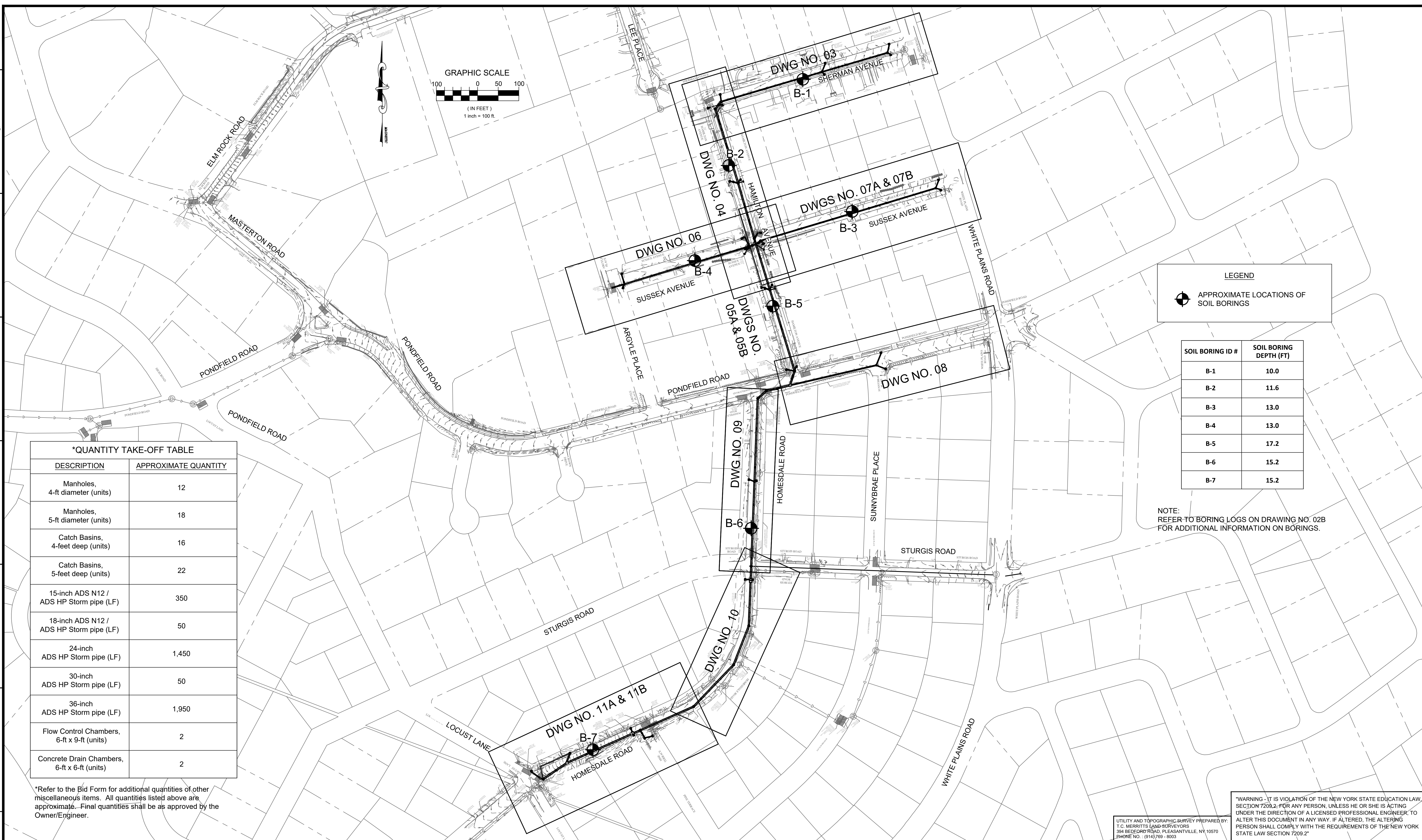
ARSHAD JALIL, P.E., BCEE
N.Y. PROFESSIONAL ENGINEER LICENSE No. 071536

PCI PROFESSIONAL CONSULTING, LLC.
OCTAGON 10 OFFICE CENTER
1719 ROUTE 10 SUITE 225
PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE			
			WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1			
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			GENERAL NOTES, LOCATION MAP, AND DRAWING LIST			
drawn by	checked by		project no.	date	scale	drawing no.
AL/MM	GB/AJ		430G	10/17/23	AS SHOWN	01

H
G
F
E
D
C
B
A



*QUANTITY TAKE-OFF TABLE	
DESCRIPTION	APPROXIMATE QUANTITY
Manholes, 4-ft diameter (units)	12
Manholes, 5-ft diameter (units)	18
Catch Basins, 4-feet deep (units)	16
Catch Basins, 5-feet deep (units)	22
15-inch ADS N12 / ADS HP Storm pipe (LF)	350
18-inch ADS N12 / ADS HP Storm pipe (LF)	50
24-inch ADS HP Storm pipe (LF)	1,450
30-inch ADS HP Storm pipe (LF)	50
36-inch ADS HP Storm pipe (LF)	1,950
Flow Control Chambers, 6-ft x 9-ft (units)	2
Concrete Drain Chambers, 6-ft x 6-ft (units)	2

*Refer to the Bid Form for additional quantities of other miscellaneous items. All quantities listed above are approximate. Final quantities shall be as approved by the Owner/Engineer.

LEGEND

 APPROXIMATE LOCATIONS OF SOIL BORINGS

SOIL BORING ID #	SOIL BORING DEPTH (FT)
B-1	10.0
B-2	11.6
B-3	13.0
B-4	13.0
B-5	17.2
B-6	15.2
B-7	15.2

NOTE:
REFER TO BORING LOGS ON DRAWING NO. 02B
FOR ADDITIONAL INFORMATION ON BORINGS.

UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITTS LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO.: (914) 769-8003

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			WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1			
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			OVERALL KEY MAP, BORING LOCATION MAP, AND QUANTITY TAKE-OFF TABLE			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430G	10/17/23	AS SHOWN	02A	

Sheet 1 of 1

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	WATER RECOVERY (%)	SAMPLE BLOWLOG SCALE	SPT N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
					192.0	0			4" Asphalt	
S-1	0.0	13	18-14.5-4	19	191.0	1	FILL		FILL: Dark-gray moist, medium dense, silty sand with gravel and asphalt fragments	
S-2	2.0	20	6-4-5-8	9	190.0	2	ML		Gray to brown, moist, Sandy SILT	
S-3	4.0	14	4-7-5-8	12	188.0	3				
S-4	6.0	20	5-4-5-8	9		4	SM		Brown, moist, Silty SAND with trace Gravel	
						5				
						6			-same, gray-brown, more fines	
						7				
						8			-same	-residual soil
S-5	8.0	16	6-7-6-8	13		9				
					182.0	10			Boring complete at 10 ft.	

Sheet 1 of 1

Sheet 1 of 1

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOWWISE inches	SPT N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
					188.5	0				
S-1	0.0	8	21-20-9-9	29	188.1	1	FILL		5" Asphalt	
						2			FILL Black, moist, medium dense, silty sand with gravel and asphalt fragments	
S-2	2.0	4	12-7-7-6	14	186.5	3	SM		Brown, moist, medium dense, Silty SAND	
						4				
S-3	4.0	3	7-7-9-11	16		5			-same, Dark gray with Gravel	
						6				
S-4	6.0	14	6-7-9-9	16		7			-same	
						8				
S-5	8.0	20	7-9-10-11	19		9			-same, Brown, more gravel	-residual soil
						10				
S-6	10.0	22	8-10-9-100Z"	19	177.0	11				
					176.9		HW		Highly weathered ROCK	
									Boring complete at 11.6 ft.	

Sheet 1 of 1

Sheet 1 of 1

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (%)	SAMPLE BLOWLOG notes	SPT-N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
					190.0 189.6	0	FILL		5" Asphalt	
S-1	0.0	14	16.5-4.5	9	188.0	1			FILL: Gray, moist, loose, silty sand with gravel and debris	
S-2	2.0	12	5-6-6-7	12		2	ML		Gray, moist, stiff, Sandy SILT	
S-3	4.0	10	3-3-3-3	6		3			-same medium stiff	
S-4	6.0	5	1-1-1-1	2		4			-same	
S-5	8.0	2	4-8-11-9	19	182.0	5	SM		Brown, wet, medium dense, Silty SAND	-perched water at 8 ft.
S-6	10.0	16	22-19-32-34	51	179.0	6			-same, moist	-residual soil
S-7	12.0	5	36-42	78	177.0	7	HW		Highly weathered ROCK	
						13			Boring complete at 13 ft.	

Sheet 1 of 1

Sheet 1 of 1

SAMPLE NUMBER	DATE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOWWISE INDEX	SPT N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	14	24-12-11-8	23	188.9 187.5 187.0	0			6" Asphalt	
S-2	2.0	20	4-4-5-6	9		1			Black, moist, medium dense, gravely sand with asphalt fragments	
S-3	4.0	18	9-11-8-9	19		2			Gray-brown, moist, loose, Silty SAND	
S-4	6.0	8	10-9-8-6	17		3			-same, medium dense, with trace gravel	
S-5	8.0	12	9-8-12-18	20		4			-same, Brown	
S-6	10.0	14	12-14-16-13	30		5			-same	
S-7	12.0	8	13-11	24	175.0	6			-same, more Gravel	-residual soil
						7			-same	
						8			Boring complete at 13 ft.	

Sheet 1 of 1

Sheet 1 of 1

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE DEPTH (m)	WATER RECOVERY (%)	SAMPLE BLOWBES INCHES	SPT N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
						188.5	0				
S-1	0.0	16		30-16-10-6	26	188.5	1	FILL	XXXX	6" Asphalt	
						188.0	2			FILL: Black to gray, moist, medium dense, silty sand, with asphalt fragments	
S-2	2.0	8		3-4-3-3	7	187.5	3	SM		Gray brown, moist, loose, Silty SAND	
							4				
S-3	4.0	16		1-2-2-1	4		5			:same, very loose	
							6				
S-4	6.0	20		16-9-6-6	15		7			:same, medium dense	
							8				
S-5	8.0	8		3-4-6-6	10		9			:same, brown, wet	perched water at 8 ft.
							10				
S-6	10.0	20		6-7-7-10	14		11			:same, moist	
							12				
S-7	12.0	24		4-4-7-10	11		13			:same	
							14				
S-8	14.0	12		13-9-9-12	18		15			:same, wet	residual soil
						172.5	16				
S-9	16.0	18		20-26-100-2"	126+	171.3	17	HW	5.5"	Highly weathered ROCK	
										Boring complete at 17.2 ft.	

Sheet 1 of 1

Sheet 1 of 1

SAMPLE NUMBER	NAVD83 DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOWBKG notes	SPT-N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	10	23-13-7-9	20	180.5	0			5" Asphalt	
S-2	2.0	10	7-10-10-10		178.5	2	SM		Brown, moist, medium dense, Silty SAND and Gravel	
S-3	4.0	2	11-8-7-8	15		3			-same	
S-4	6.0	8	11-12-10-10	22		4			-same, Black	
S-5	8.0	8	6-10-11-10	21		5			-same, Gray, wet	-perched water at 8 ft.
S-6	10.0	16	9-10-12-16	22		6			-same, Gray-brown, moist	
S-7	12.0	12	17-19-26-19	45	167.5	7			-same	-residual soil
S-8	14.0	12	46-60-100/2"	160+	165.3	8	HW		Highly weathered ROCK	
						9			-same, wet	
						10			Boring complete at 15.2 ft.	

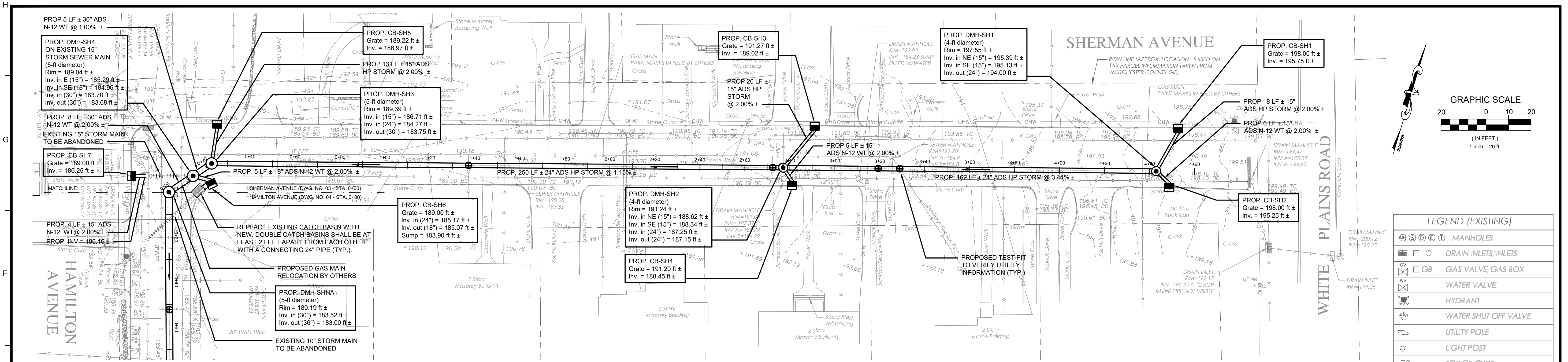
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Sheet 1 of 1

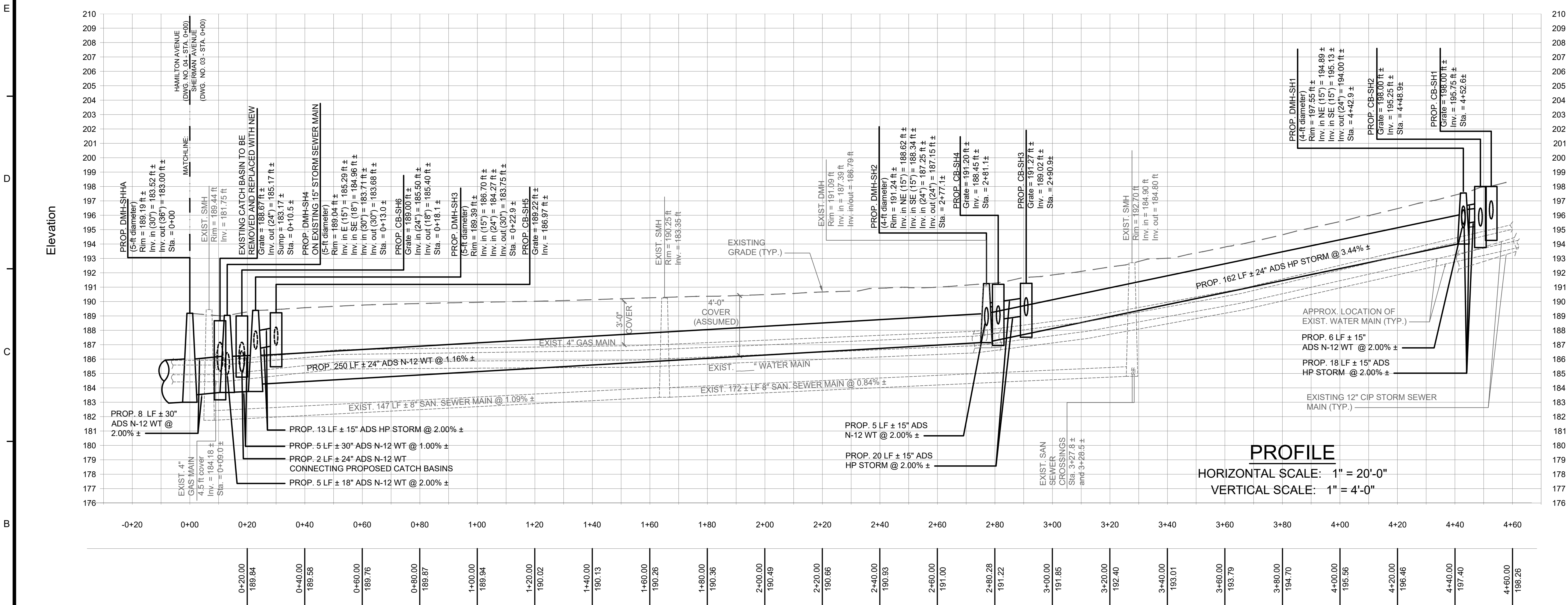
TEST NUMBER	SAMPLE DEPTH (ft)	SAMPLE DEPTH (ft)	SAMPLE RECOVERY (%)	SAMPLE BLOWBES inches	SPIN VALUE	ELEVATION (ft)	DEPTH (ft)	STRATA GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	7	18-21-11-8	32	160.0 159.6		0 1 2 3 4 5	FILL	4" Asphalt FILL: Brown, moist, dense, silty sand with gravel and debris -same -same, black	
S-2	2.0	15	8-8-9-11	17			6 7 8 9 10 11 12 13	SM	Brown, moist, medium dense, Silty SAND with Gravel -same, wet -same, moist -same	perched water at 8 ft. -residual soil
S-3	4.0	1	7-8-7-6	15			14 15			
S-4	6.0	5	4-8-8-5	16			16 17 18 19 20 21 22 23			
S-5	8.0	8	2-3-3-2	6			24 25 26 27 28 29 30 31 32			
S-6	10.0	14	3-3-8-14	11			33 34 35 36 37 38 39 40 41 42 43 44 45			
S-7	12.0	22	18-14-15-12	29			46 47 48 49 50 51 52 53 54 55 56 57 58 59 60			
S-8	14.0	14	19-28-40-50-2	68	146.0 144.8		61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	HW	Highly weathered ROCK Boring complete at 15.2 ft.	

Sheet 1 of 1

Drawing no.



PLAN
HORIZONTAL SCALE: 1" = 20'-0"



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"

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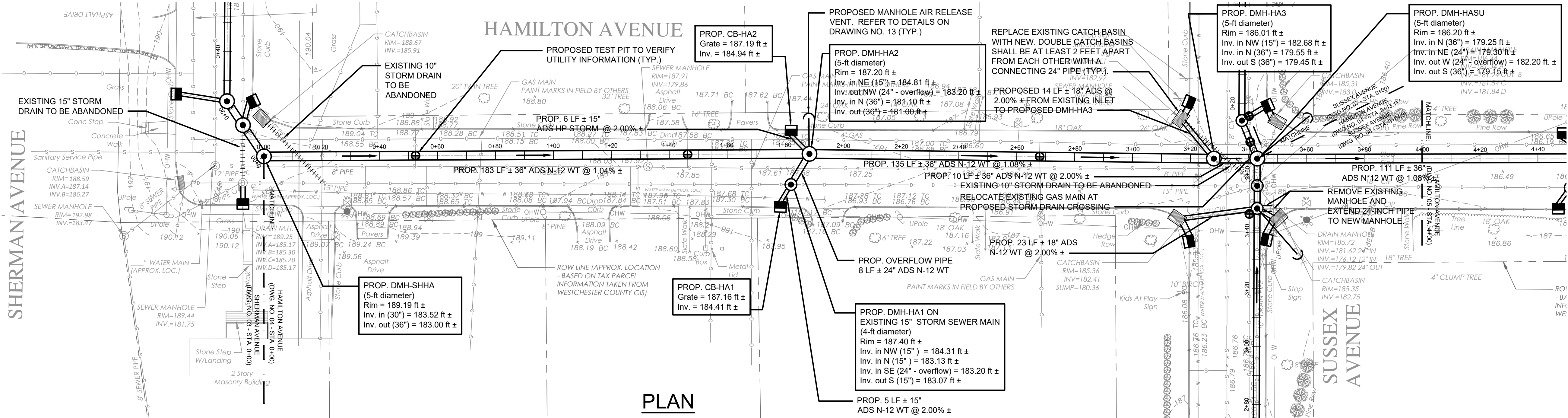
N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK
			CONTRACT NO. VA 2022-06-1 HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS
			DRAINAGE IMPROVEMENT PLAN AND PROFILE SHERMAN AVENUE - STA. 0+00 TO 4+42.9
drawn by	checked by	project no.	date
AL/MM	GB/AJ	430G	10/17/23
scale	drawing no.	AS SHOWN	03

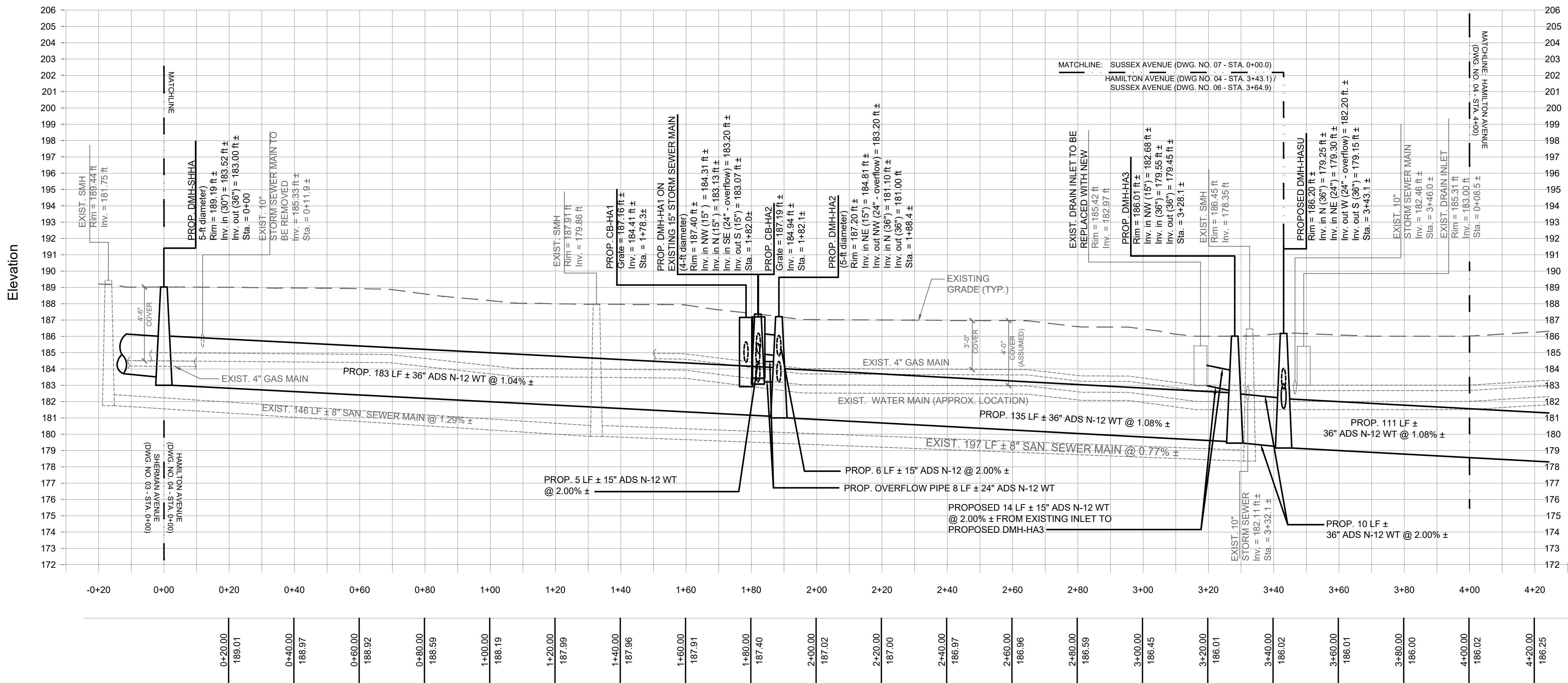
UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITT LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO.: (914) 769-8003

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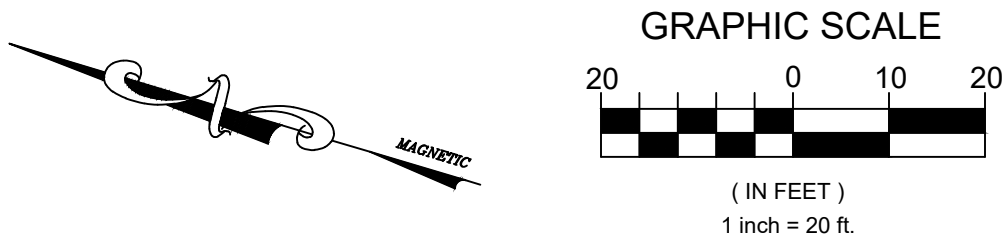
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PLAN
HORIZONTAL SCALE: 1" = 20'-0"



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"



LEGEND (EXISTING)	
	MANHOLES
	DRAIN INLETS/INLETS
	GAS VALVE/GAS BOX
	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL

LEGEND (EXISTING)	
— W — W — W — W — W —	WATER MAIN
— D — D — D — D — D —	DRAINAGE PIPE
— G — G — G — G — G —	GAS MAIN
— S — S — S — S — S —	SANITARY SEWER MAIN
— E — E — E — E — E —	ELECTRICAL LINE
— OHW — OHW — OHW — OHW —	OVERHEAD WIRES

- NOTES:
1. ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
 2. ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
 3. ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
 4. ALL DOUBLE CATCH BASINS SHALL BE CONNECTED TOGETHER WITH A 24" PIPE.
 5. ALL CATCH BASIN OUTLET PIPES FROM DOUBLE INLETS SHALL BE AT MINIMUM OF 18" DIAMETER AT 2.00% ± SLOPE.
 6. A STANDARD CATCH BASIN SHOULD BE 42" X 48" X 60" DEEP (TYP.). A SHALLOW CATCH BASIN (42" X 48" X 48") DEEP MAY BE SUBSTITUTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF ALL UTILITY CROSSINGS AND CONFIRM THE REQUIRED DEPTH OF CATCH BASINS AND OUTLET PIPES. DEPENDING ON THE FIELD INFORMATION OBTAINED, THE ENGINEER MAY REQUIRE INSTALLATION OF A DEEPER CATCH BASIN. AS SUCH, THE CONTRACTOR SHALL SECURE THE ENGINEER'S APPROVAL BEFORE PLACING THE ORDERS FOR THE DRAINAGE STRUCTURES.
 7. ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
 8. ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
 9. CONTRACTOR SHALL REMOVE ALL ABANDONED PIPES WHERE NECESSARY. ABANDONED PIPES THAT ARE LEFT IN PLACE SHALL BE FILLED WITH FLY ASH SLURRY AND CAPPED WITH CONCRETE OR OTHER METHODS AS APPROVED BY THE ENGINEER.
 10. WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

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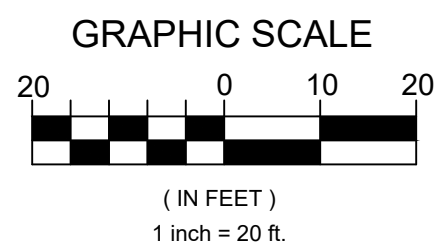
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			CONTRACT NO. VA 2022-06-1
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS
			DRAINAGE IMPROVEMENT PLAN AND PROFILE
			HAMILTON AVENUE - STA. 0+00 TO 4+00
drawn by	checked by	project no.	date
AL/MM	GB/AJ	430G	10/17/23
scale	drawing no.	AS SHOWN	04



LEGEND (EXISTING)	
— W — W — W — W — W —	WATER MAIN
— D — D — D — D — D —	DRAINAGE PIPE
— G — G — G — G — G —	GAS MAIN
— S — S — S — S — S —	SANITARY SEWER MAIN
— E — E — E — E — E —	ELECTRICAL LINE
— OHW — OHW — OHW — OHW —	OVERHEAD WIRES

- NOTES:**
1. ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
 2. ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
 3. ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
 4. ALL DOUBLE CATCH BASINS SHALL BE CONNECTED TOGETHER WITH A 24" PIPE.
 5. ALL CATCH BASIN OUTLET PIPES FROM DOUBLE INLETS SHALL BE AT MINIMUM OF 18" DIAMETER AT 2.00% ± SLOPE.
 6. STANDARD CATCH BASINS SHOULD BE 42" X 48" X 60" DEEP (TYP.). A SHALLOW CATCH BASIN (42"X48"X48" DEEP) MAY BE SUBSTITUTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF ALL UTILITY CROSSINGS AND CONFIRM THE REQUIRED DEPTH OF CATCH BASINS AND OUTLET PIPES. DEPENDING ON THE FIELD INFORMATION OBTAINED, THE ENGINEER MAY REQUIRE INSTALLATION OF A DEEPER CATCH BASIN. AS SUCH, THE CONTRACTOR SHALL SECURE THE ENGINEER'S APPROVAL BEFORE PLACING THE ORDERS FOR THE DRAINAGE STRUCTURES.
 7. ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
 8. ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
 9. CONTRACTOR SHALL REMOVE ALL ABANDONED PIPES WHERE NECESSARY. ABANDONED PIPES THAT ARE LEFT IN PLACE SHALL BE FILLED WITH FLY ASH SLURRY AND CAPPED WITH CONCRETE OR OTHER METHODS AS APPROVED BY THE ENGINEER.
 10. WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

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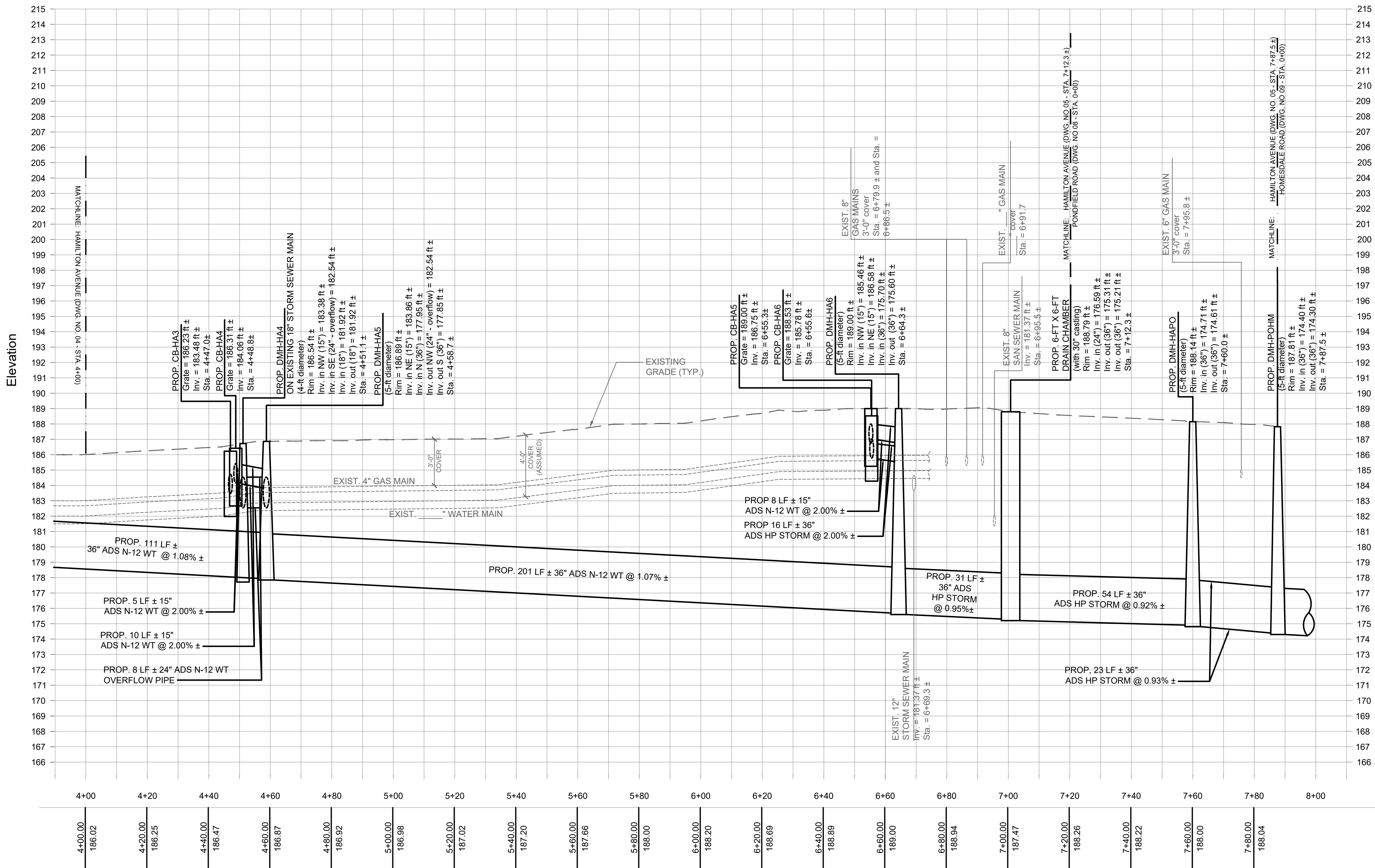
UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITTS LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO. : (914) 769 - 8003

ARSHAD JALIL, P.E., BCEE
N.Y. PROFESSIONAL ENGINEER LICENSE No. 071536

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PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name				
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK				
			CONTRACT NO. VA 2022-06-1				
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS				
			DRAINAGE IMPROVEMENT PLAN				
			HAMILTON AVENUE - STA. 4+00 TO 7+87.5				
drawn by AL/MM		checked by GB/AJ	project no. 430G	date 10/17/23	scale AS SHOWN	drawing no. 05A	



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"

- NOTES:
1. ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
 2. ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
 3. ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
 4. ALL DOUBLE CATCH BASINS SHALL BE CONNECTED TOGETHER WITH A 24" PIPE.
 5. ALL CATCH BASIN OUTLET PIPES FROM DOUBLE INLETS SHALL BE AT MINIMUM OF 18" DIAMETER AT 2.00% ± SLOPE.
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 7. ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
 8. ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
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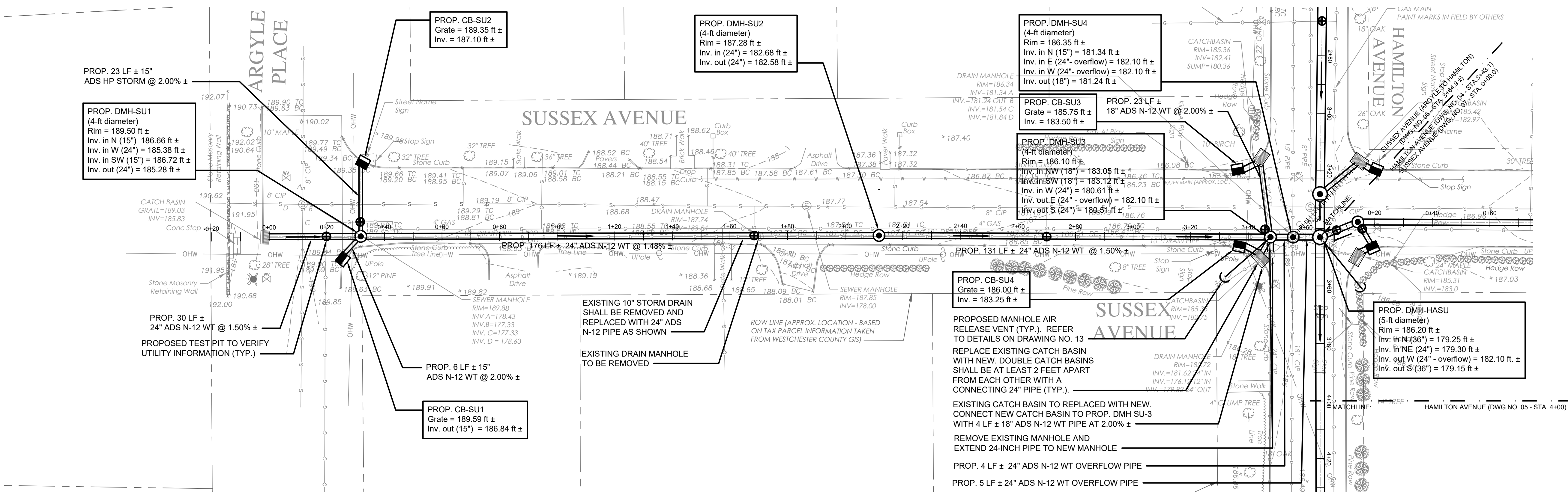
N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE			
			WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1			
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PROFILE			
			HAMILTON AVENUE - STA. 4+00 TO 7+87.5			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430G	10/17/23	AS SHOWN	05B	

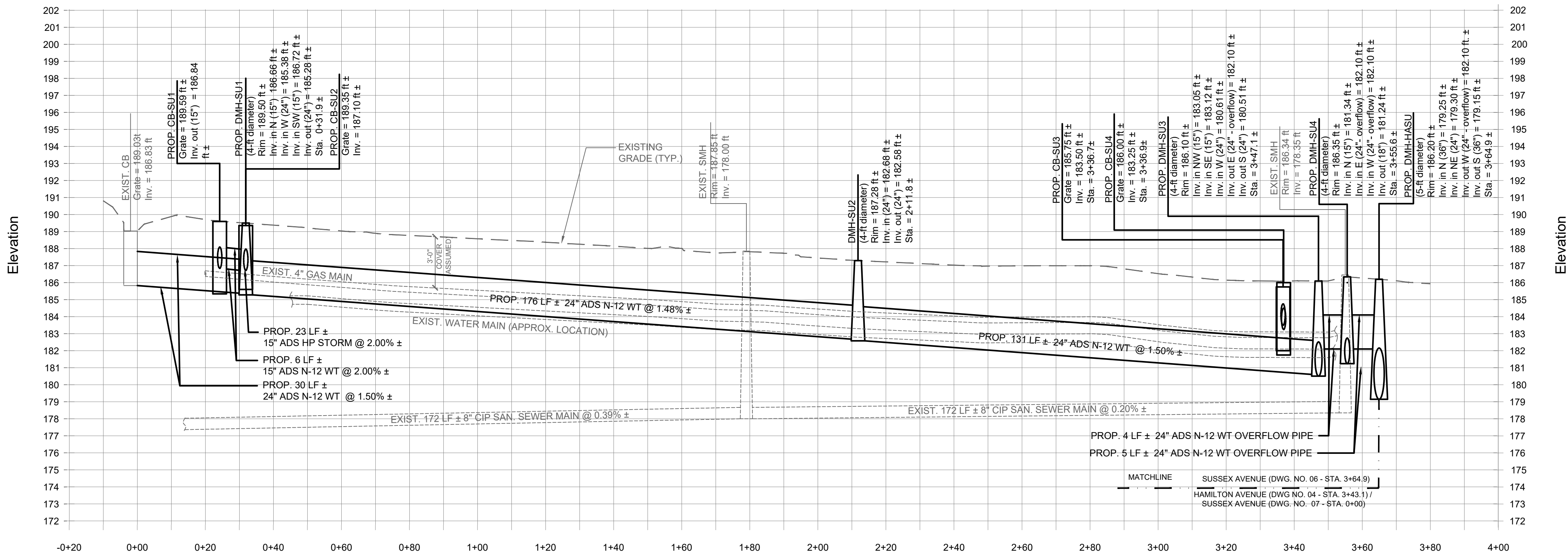
UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITS LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO.: (914) 769 - 8003

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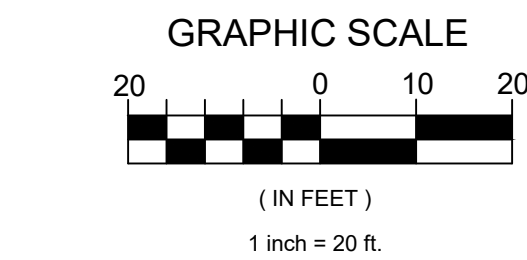
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PLAN
HORIZONTAL SCALE: 1" = 20'-0"



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"



LEGEND (EXISTING)	
	MANHOLES
	DRAIN INLETS/INLETS
	GAS VALVE/GAS BOX
	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
	TOP OF CURB
	BOTTOM OF CURB
	TOP OF WALL
	BOTTOM OF WALL

LEGEND (EXISTING)	
	WATER MAIN
	DRAINAGE PIPE
	GAS MAIN
	SANITARY SEWER MAIN
	ELECTRICAL LINE
	OVERHEAD WIRES

- NOTES:
- ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
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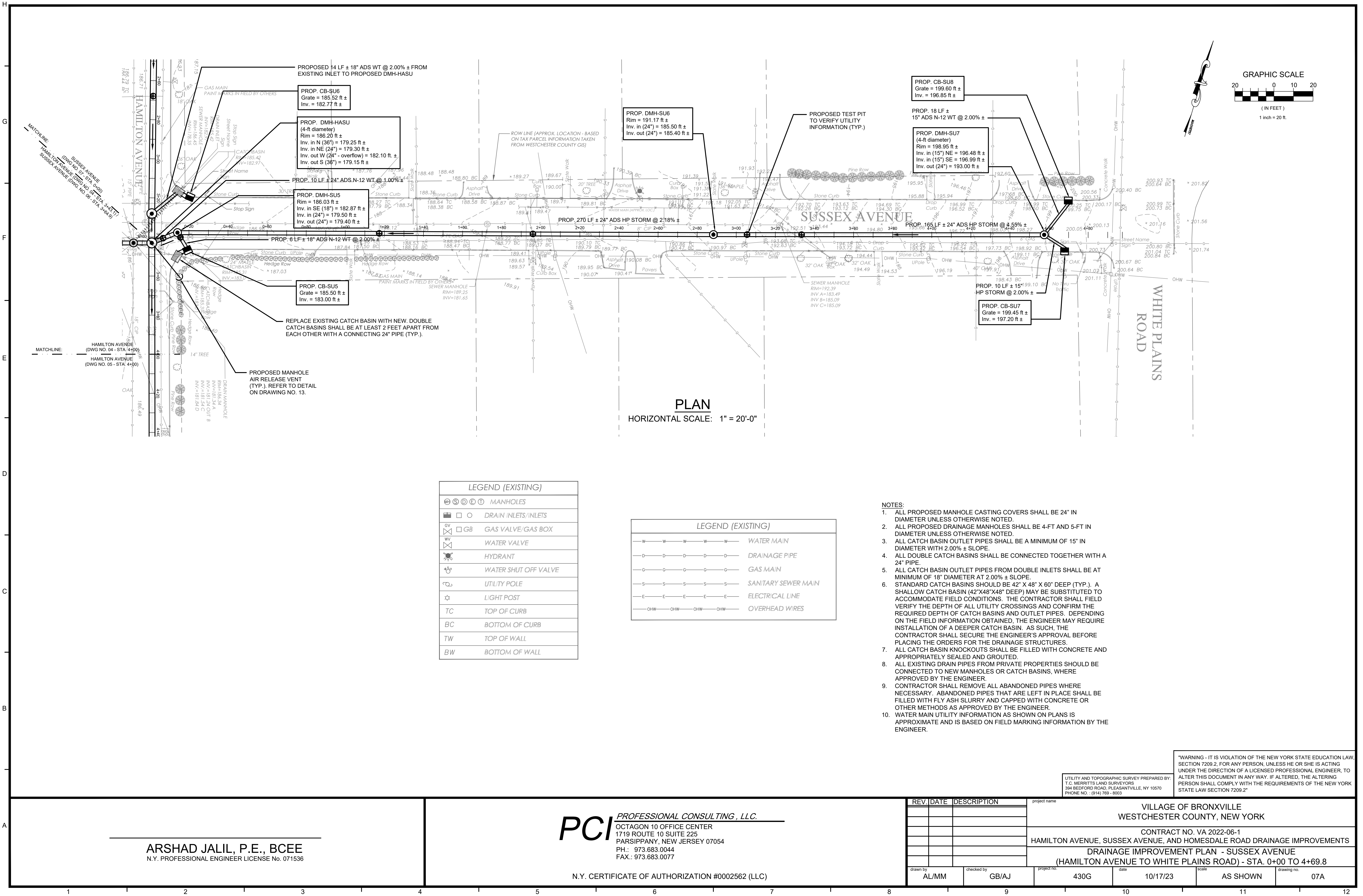
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PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK
			CONTRACT NO. VA 2022-06-1
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS
			DRAINAGE IMPROVEMENT PLAN AND PROFILE - SUSSEX AVENUE (ARGYLE PLACE TO HAMILTON AVENUE) - STA. 0+00 TO 3+64.9
drawn by	checked by	project no.	date
AL/MM	GB/AJ	430G	10/17/23
scale	drawing no.	AS SHOWN	06



PLAN
HORIZONTAL SCALE: 1" = 20'-0"

LEGEND (EXISTING)	
	MANHOLES
	DRAIN INLETS/INLETS
	GAS VALVE/GAS BOX
	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL

LEGEND (EXISTING)	
	WATER MAIN
	DRAINAGE PIPE
	GAS MAIN
	SANITARY SEWER MAIN
	ELECTRICAL LINE
	OVERHEAD WIRES

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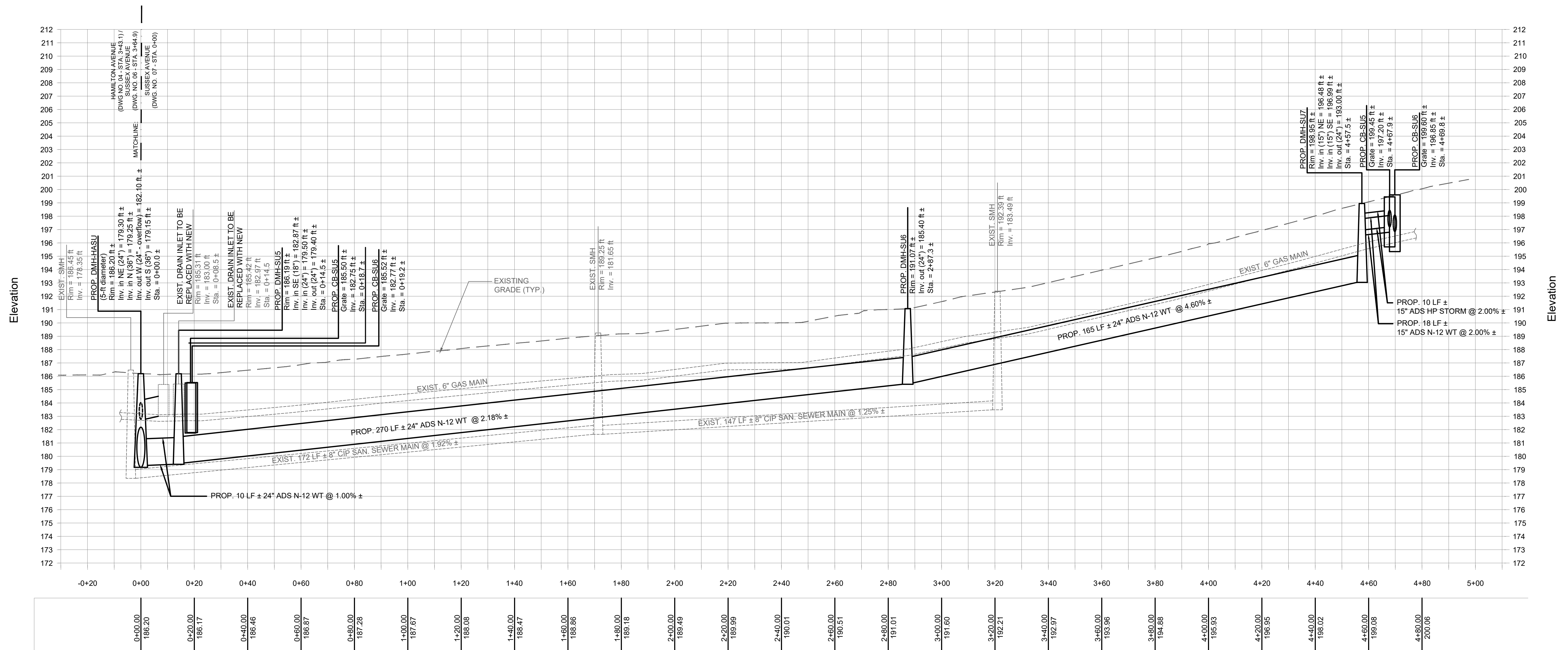
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PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1 HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PLAN - SUSSEX AVENUE (HAMILTON AVENUE TO WHITE PLAINS ROAD) - STA. 0+00 TO 4+69.8			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430G	10/17/23	AS SHOWN	07A	



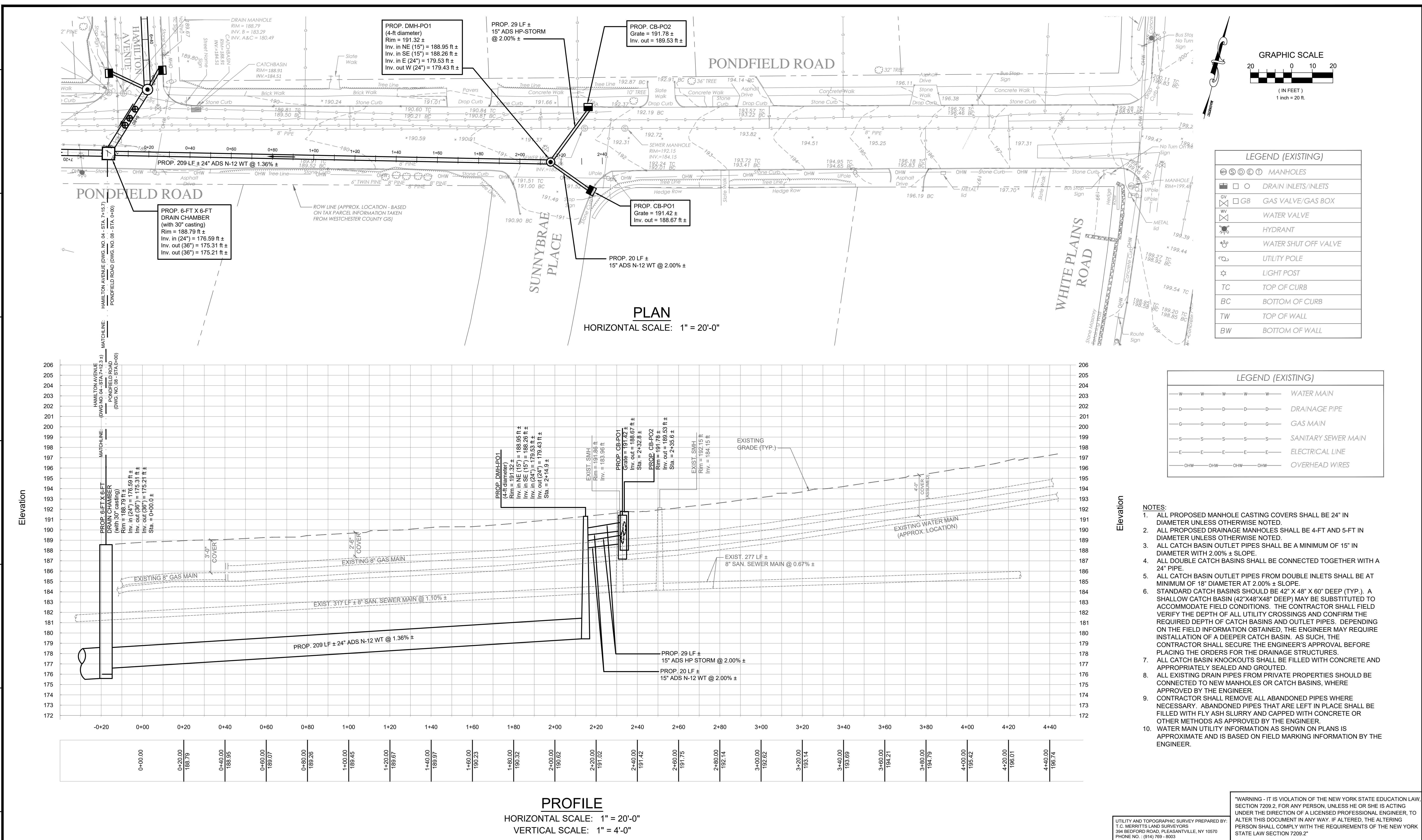
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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.		DATE		DESCRIPTION		project name	
						VILLAGE OF BRONXVILLE	
						WESTCHESTER COUNTY, NEW YORK	
						CONTRACT NO. VA 2022-06-1	
						HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS	
						DRAINAGE IMPROVEMENT PROFILE - SUSSEX AVENUE	
						(HAMILTON AVENUE TO WHITE PLAINS ROAD) - STA. 0+00 TO 4+69.8	
drawn by		checked by		project no.		date	
AL/MM		GB/AJ		430G		10/17/23	
						scale	
						AS SHOWN	
						drawing no.	
						07B	

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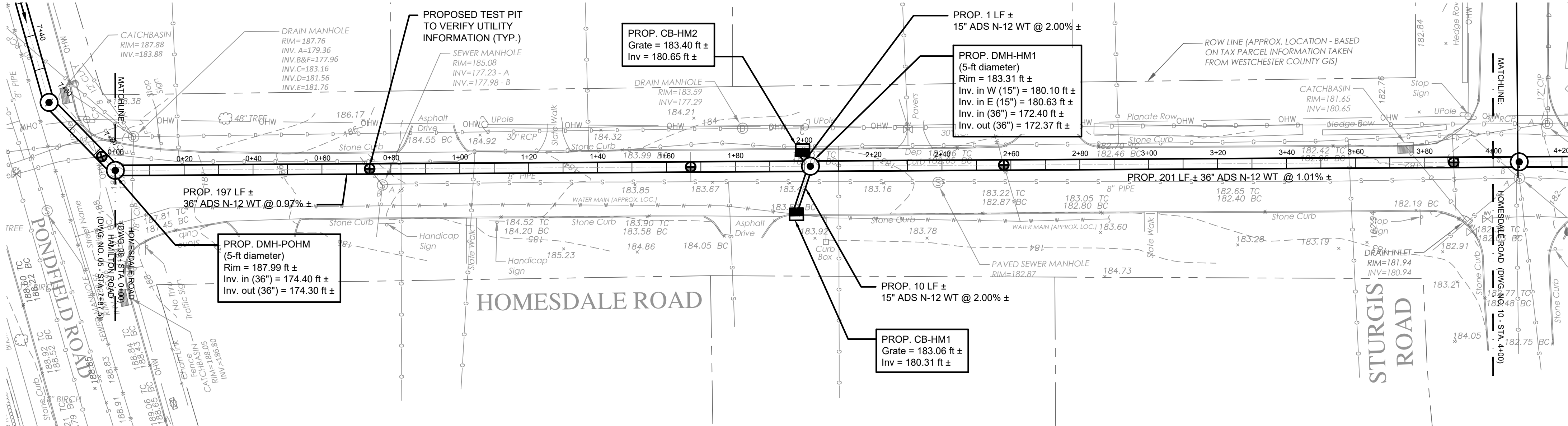


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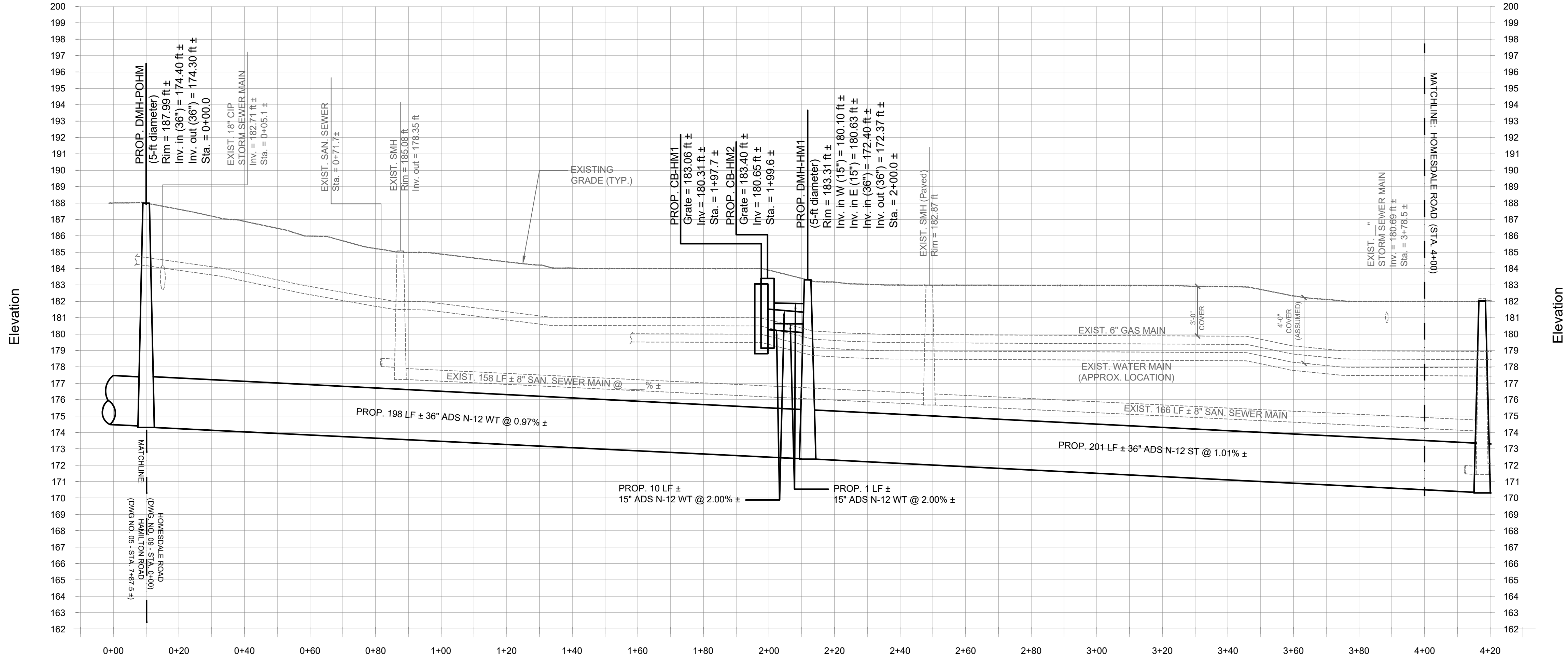
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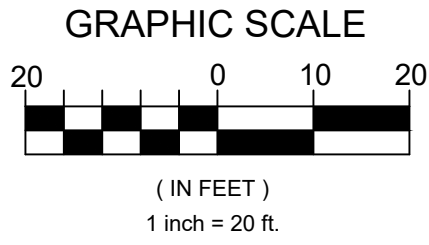
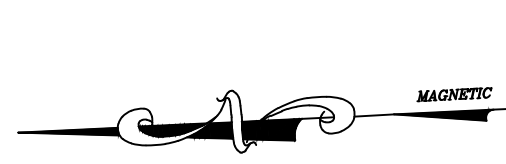
REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1			
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PLAN AND PROFILE			
			PONDFIELD ROAD - STA. 0+00 TO 2+35.6			
drawn by		checked by	project no.	date	scale	drawing no.
AL/MM		GB/AJ	430G	10/17/23	AS SHOWN	08



PLAN
HORIZONTAL SCALE: 1" = 20'-0"



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"



LEGEND (EXISTING)	
	MANHOLES
	DRAIN INLETS/INLETS
	GAS VALVE/GAS BOX
	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
	TOP OF CURB
	BOTTOM OF CURB
	TOP OF WALL
	BOTTOM OF WALL

LEGEND (EXISTING)	
	WATER MAIN
	DRAINAGE PIPE
	GAS MAIN
	SANITARY SEWER MAIN
	ELECTRICAL LINE
	OVERHEAD WIRES

- NOTES:
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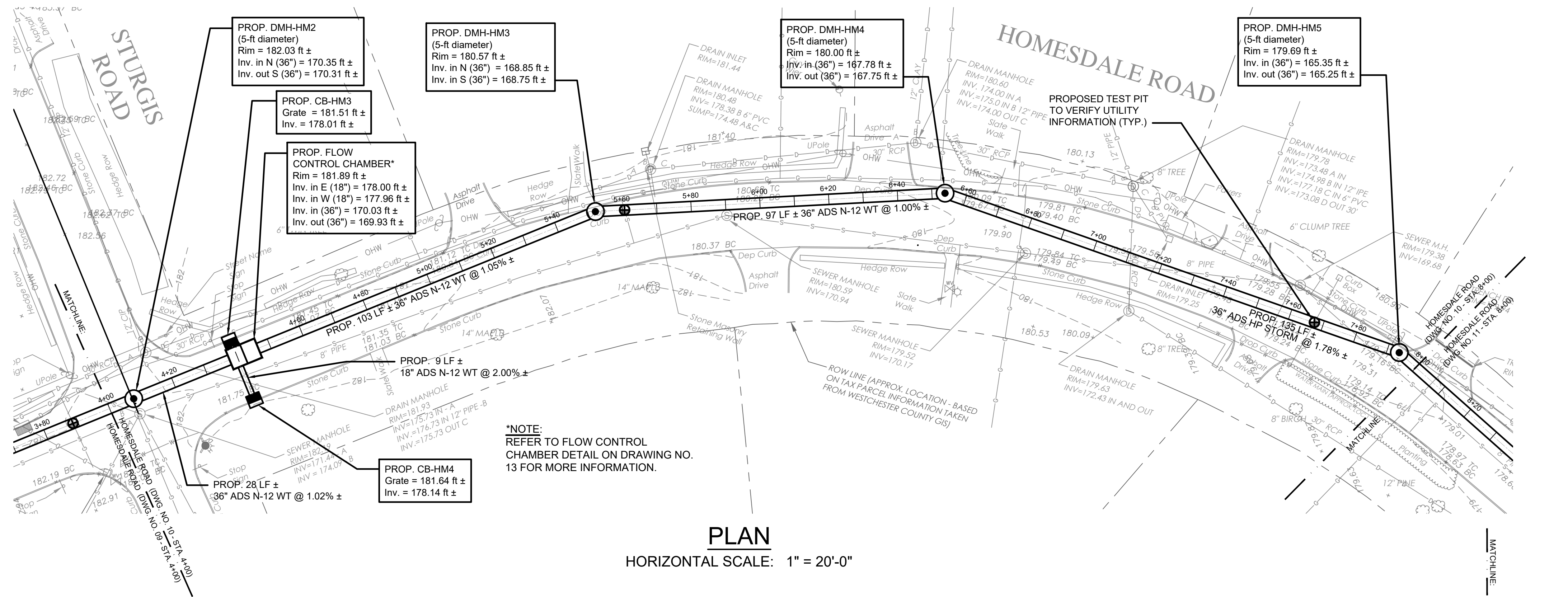
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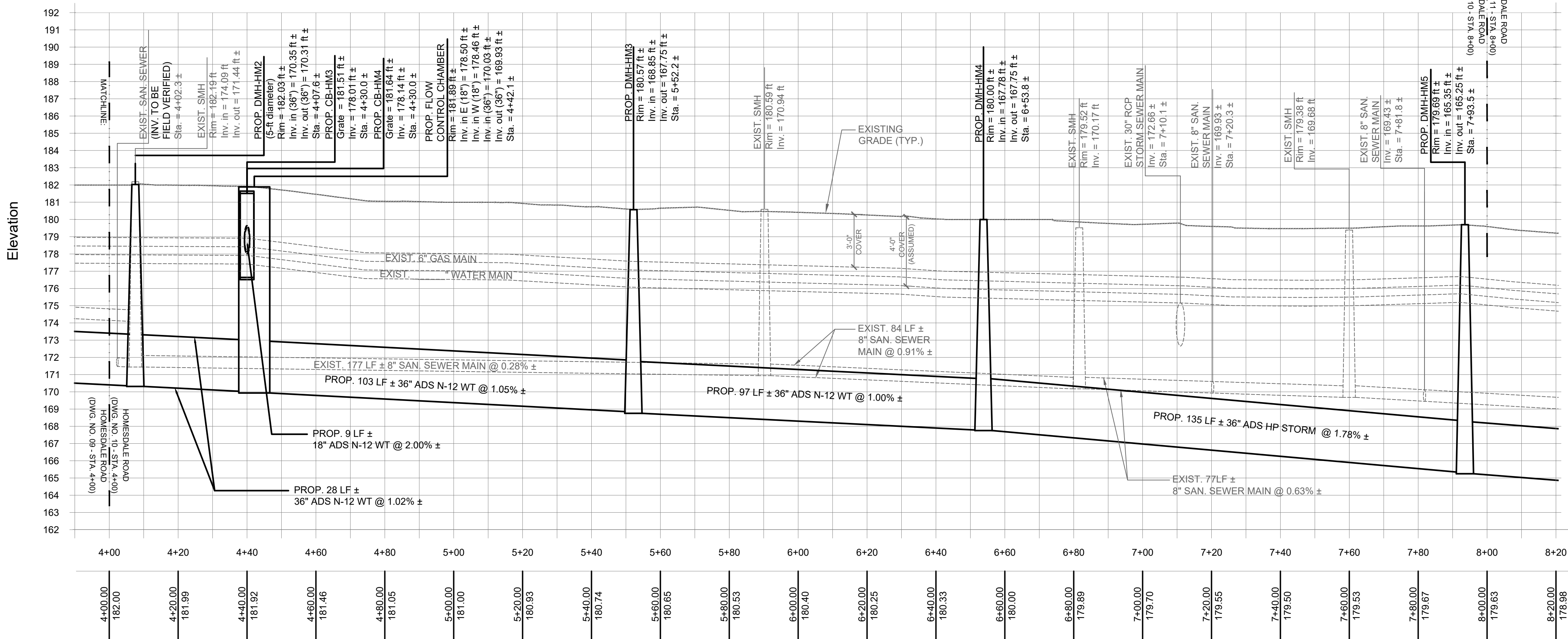
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			WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1			
			HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PLAN AND PROFILE			
			HOMESDALE ROAD - STA. 0+00 TO 4+00			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430G	10/17/23	AS SHOWN	09	

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PLAN
HORIZONTAL SCALE: 1" = 20'-0"



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"

LEGEND (EXISTING)	
	MANHOLES
	DRAIN INLETS/INLETS
	GAS VALVE/GAS BOX
	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
	TOP OF CURB
	BOTTOM OF CURB
	TOP OF WALL
	BOTTOM OF WALL

LEGEND (EXISTING)	
	WATER MAIN
	DRAINAGE PIPE
	GAS MAIN
	SANITARY SEWER MAIN
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 - ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
 - ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
 - CONTRACTOR SHALL REMOVE ALL ABANDONED PIPES WHERE NECESSARY. ABANDONED PIPES THAT ARE LEFT IN PLACE SHALL BE FILLED WITH FLY ASH SLURRY AND CAPPED WITH CONCRETE OR OTHER METHODS AS APPROVED BY THE ENGINEER.
 - WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

"WARNING - IT IS VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2"

UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITT LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO.: (914) 769-8003

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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1 HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PLAN AND PROFILE HOMESDALE ROAD - STA. 4+00 TO 8+00			
drawn by		checked by	project no.	date	scale	drawing no.
AL/MM		GB/AJ	430G	10/17/23	AS SHOWN	10



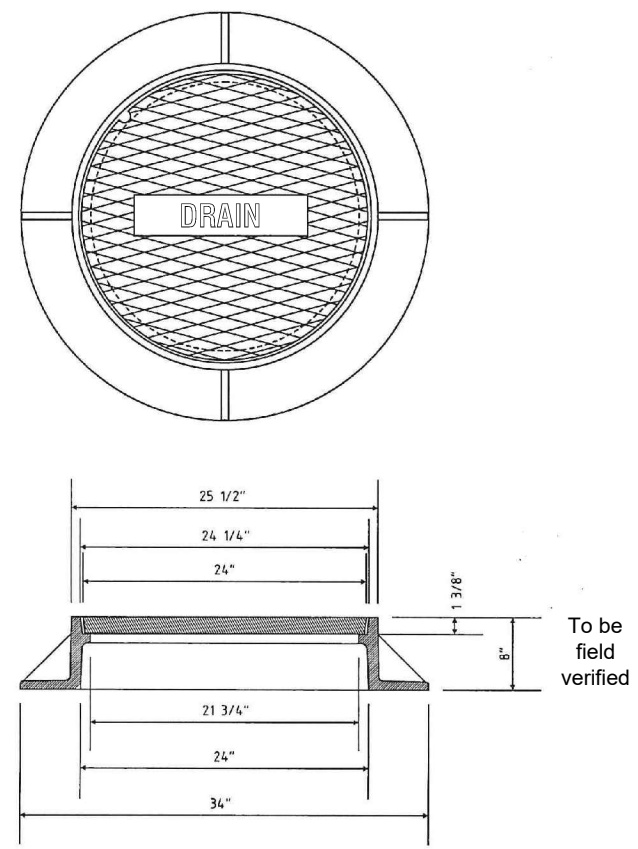
- ## Elevation

UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY: T.C. MERRILLS LAND SURVEYORS 394 BEDFORD ROAD, PLEASANTVILLE, NY 10570 PHE-NC, (914) 769-1800	"WARNING - IT IS VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2"
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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

1 2 3 4 5 6 7 8 9 10 11 12

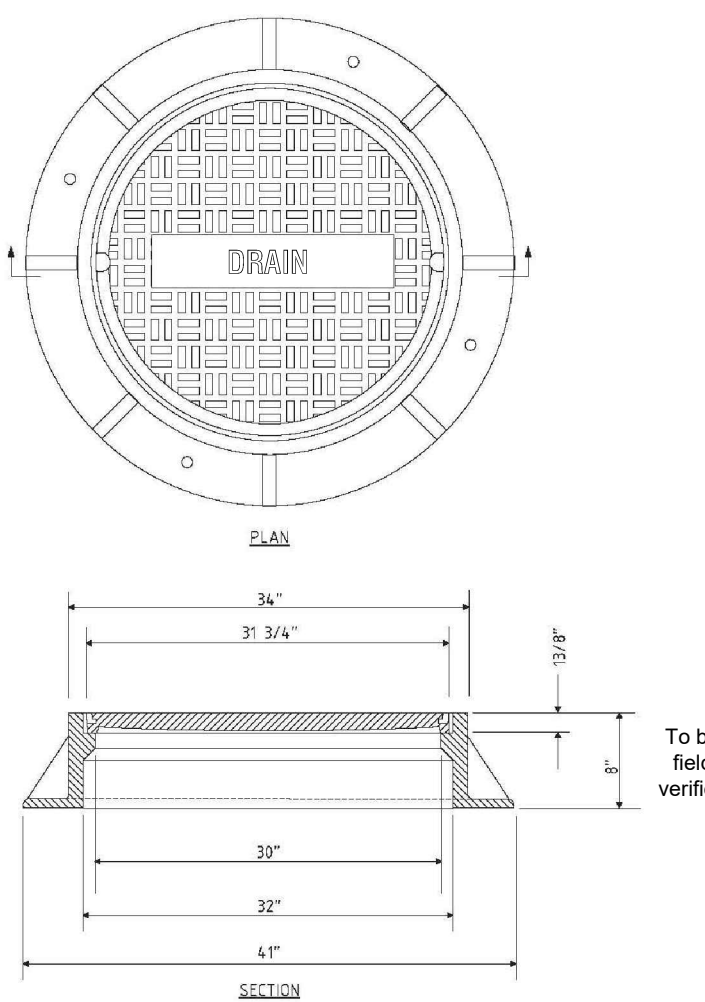
Heavy Duty 24" Manhole Frame & Bolted Cover



- NOTES:
1. MATERIAL - GRAY CAST IRON ASM A48-83, CLASS 35B.
 2. AASHTO HS25 HIGHWAY LOADING.
 3. BEARING SURFACE AT SEAT OF FRAME AND COVER SHALL BE MACHINED FOR UNIFORM FIT.
 4. CASTINGS SHALL BE SUPPLIED WITHOUT SURFACE COATING.
 5. CASTINGS SHALL BE MADE IN U.S.A.
 6. PATTERN NO. 1007D BY CAMPBELL FOUNDRY COMPANY, OR APPROVED EQUAL.
 7. COVERS TO BE CAST WITH 2" IDENTIFYING LETTERS "DRAIN" EMBOSSED AGAINST A RECESSED BACKGROUND.

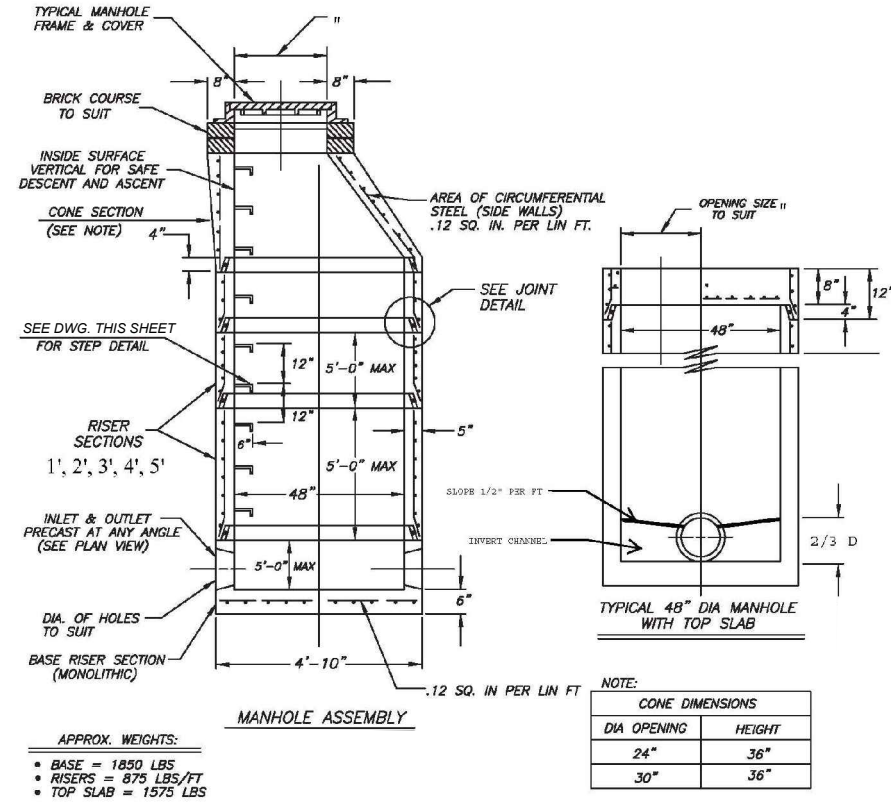
MANHOLE FRAME AND COVER DETAILS
NOT TO SCALE

Heavy Duty 30" Manhole Frame & Bolted Cover



- NOTES:
1. MATERIAL: GRAY CAST IRON, ASTM A-48-83, CLASS 35B.
 2. AASHTO HS20-44 HIGHWAY LOADING.
 3. BEARING SURFACE AT SEAT OF COVER AND FRAME SHALL BE MACHINED FOR UNIFORM FIT.
 4. COVER SHALL HAVE TWO NON-PENETRATING PICK HOLES.
 5. CASTINGS SHALL BE SUPPLIED WITHOUT SURFACE COATING.
 6. CASTING SHALL BE MADE IN U.S.A.
 7. PATTERN NO. 1012B BY CAMPBELL FOUNDRY COMPANY, OR APPROVED EQUAL.
 8. COVERS TO BE CAST WITH 2" IDENTIFYING LETTERS "DRAIN" EMBOSSED AGAINST A RECESSED BACKGROUND.

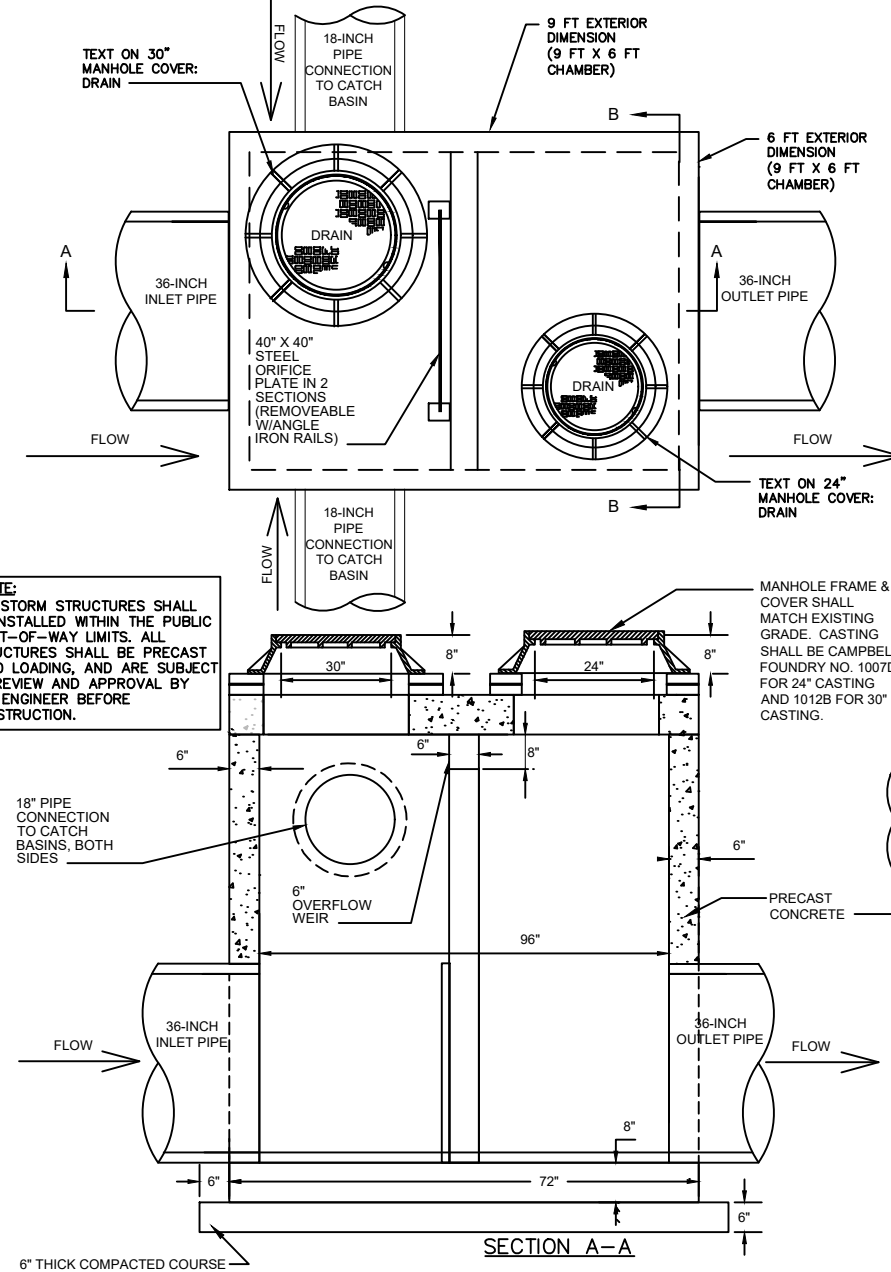
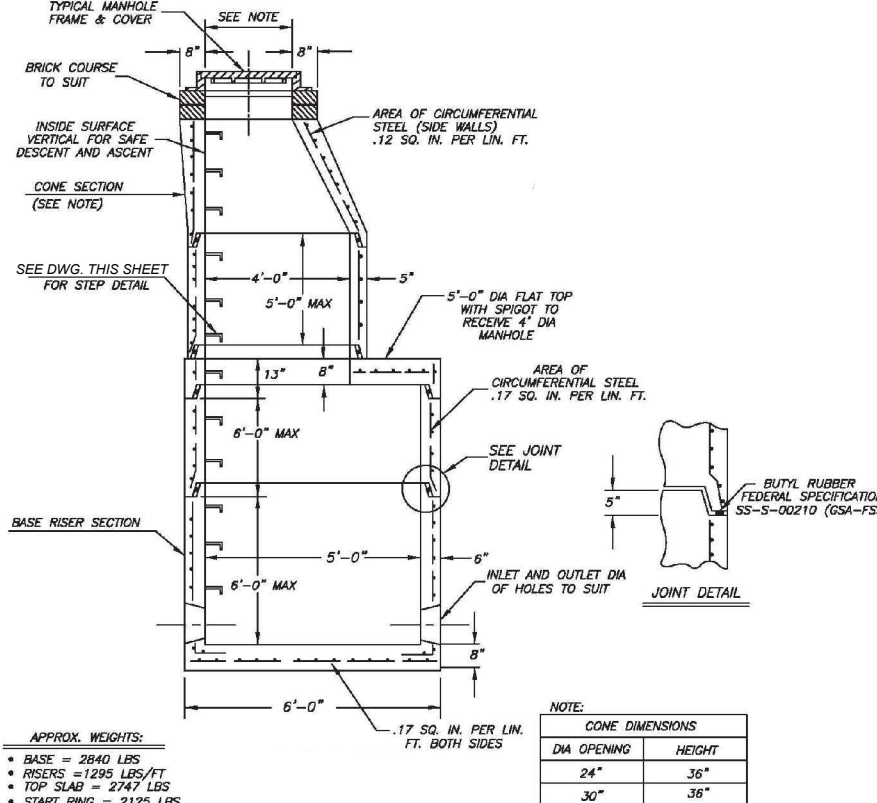
Typical 4'-0" Diameter Concrete Manhole with Standard Footing



- NOTES:
1. CONCRETE TO TEST 4000 PSI @ 28 DAYS IN CONFORMANCE WITH ASTM C-478 DESIGN FOR H20 LOADING.
 2. MANHOLES BY PRECAST CONCRETE SALES CO. OR APPROVED EQUAL.
 3. ALL CASTINGS SHALL BE H20 LOAD RATED.

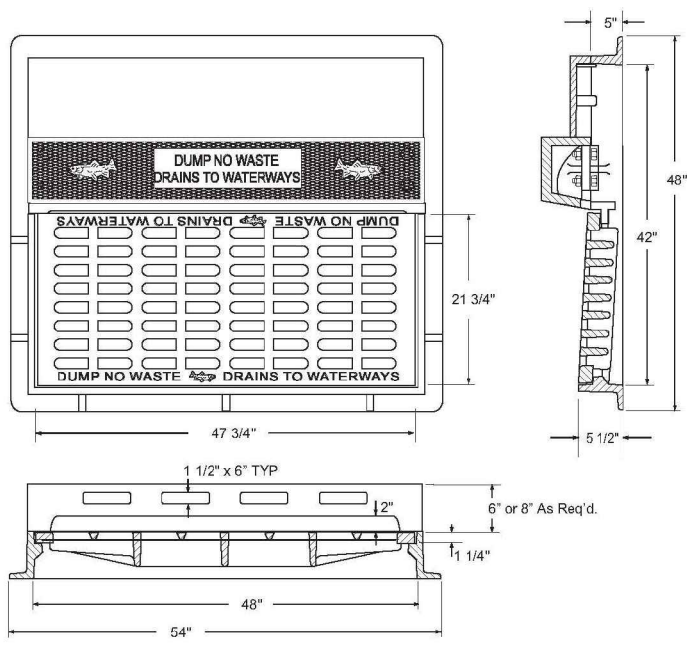
MANHOLE DETAILS
NOT TO SCALE

Typical 5'-0" Diameter Concrete Manhole with 4'-0" Diameter Manhole Stack



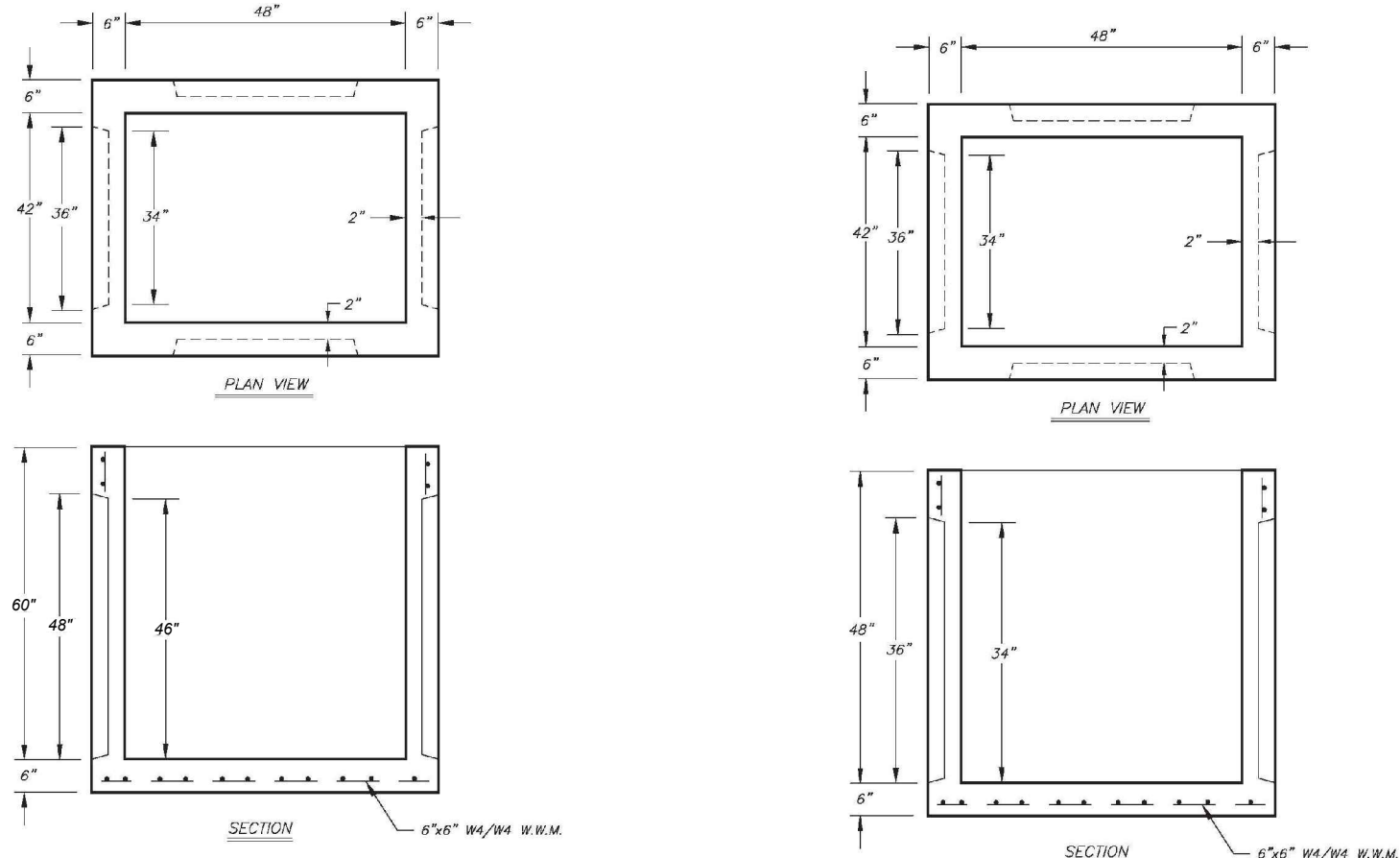
FLOW CONTROL CHAMBER DETAIL
N.T.S.

Curb Inlet with Bicycle Safe Grate and Type 'N' - Eco Curb Piece'



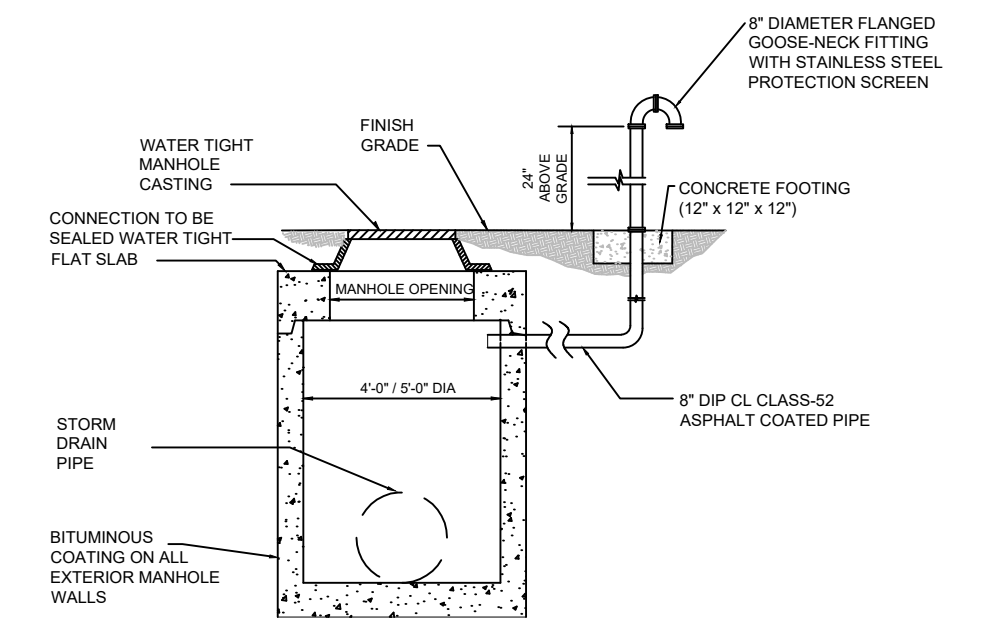
- NOTES:
1. MATERIAL - GRAY CAST IRON ASM A48-83, CLASS 35B.
 2. AASHTO HS20-44 HIGHWAY LOADING.
 3. CASTINGS SHALL BE SUPPLIED WITHOUT SURFACE COATING.
 4. CASTINGS SHALL BE MADE IN U.S.A.
 5. PATTERN NO. 2618 BY CAMPBELL FOUNDRY COMPANY, OR APPROVED EQUAL.

42" X 48" X 60" Deep Knockout Catch Basin 42" X 48" X 48" Deep Knockout Catch Basin

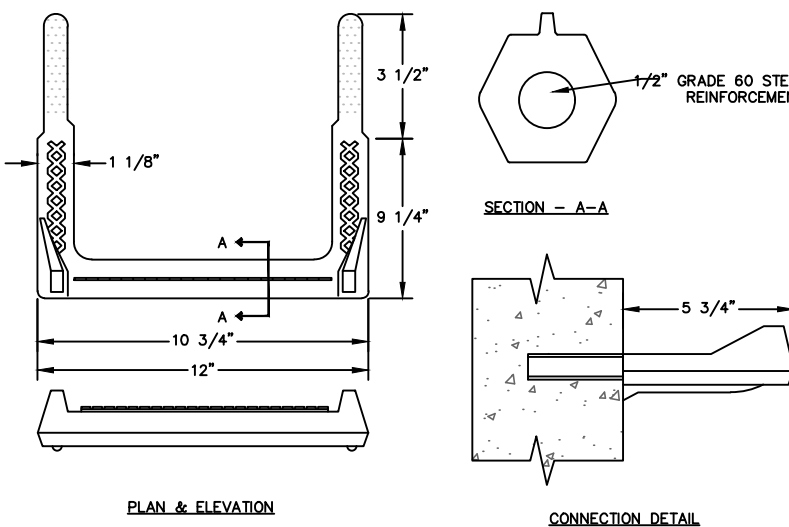


- NOTES:
1. STANDARD CATCH BASINS SHOULD BE 42" X 48" X 60" DEEP (TYP.). A SHALLOW CATCH BASIN (42" X 48" X 48" DEEP) MAY BE SUBSTITUTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF ALL UTILITY CROSSINGS AND CONFIRM THE REQUIRED DEPTH OF CATCH BASINS AND OUTLET PIPES. DEPENDING ON THE FIELD INFORMATION OBTAINED, THE ENGINEER MAY REQUIRE INSTALLATION OF A DEEPER CATCH BASIN. AS SUCH, THE CONTRACTOR SHALL SECURE THE ENGINEER'S APPROVAL BEFORE PLACING THE ORDERS FOR THE DRAINAGE STRUCTURES.
 2. CATCH BASIN SUMP INVERT SHALL BE MINIMUM 18 INCHES BELOW THE INVERT OF THE OUTLET PIPE.
 3. CATCH BASINS SHALL BE H20 LOADING.
 4. MATERIAL - CONCRETE: 4,000 PSI @ 28 DAYS.
 5. REINFORCING: AS PER ASTM A-185 - 6" X 6" W4/W4 W.W.M.
 6. APPROX. WEIGHT: 5,100 LBS.
 7. KNOCKOUT CATCH BASINS BY PRECAST CONCRETE SALES CO. OR APPROVED EQUAL.

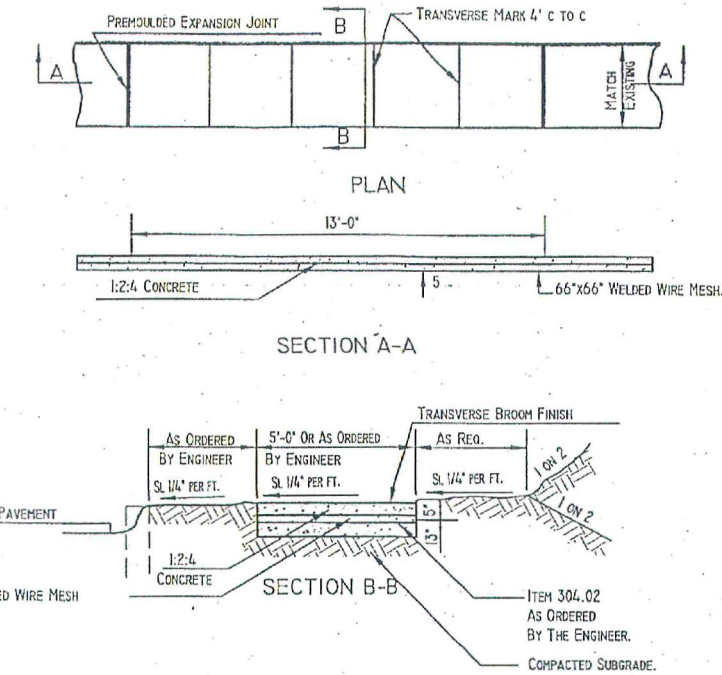
CATCH BASIN DETAILS
NOT TO SCALE



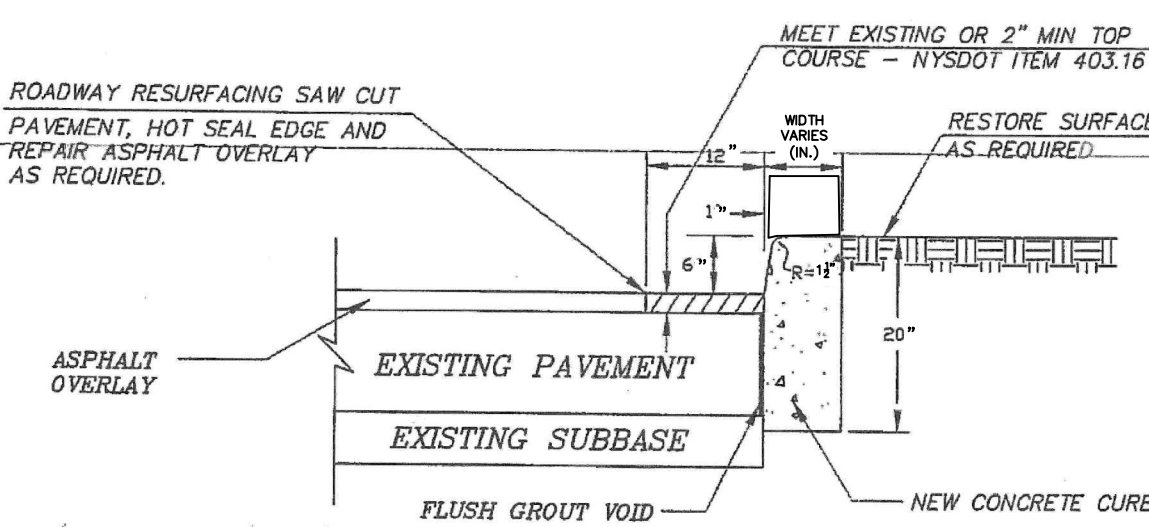
MANHOLE AIR RELEASE VENT DETAIL
NOT TO SCALE



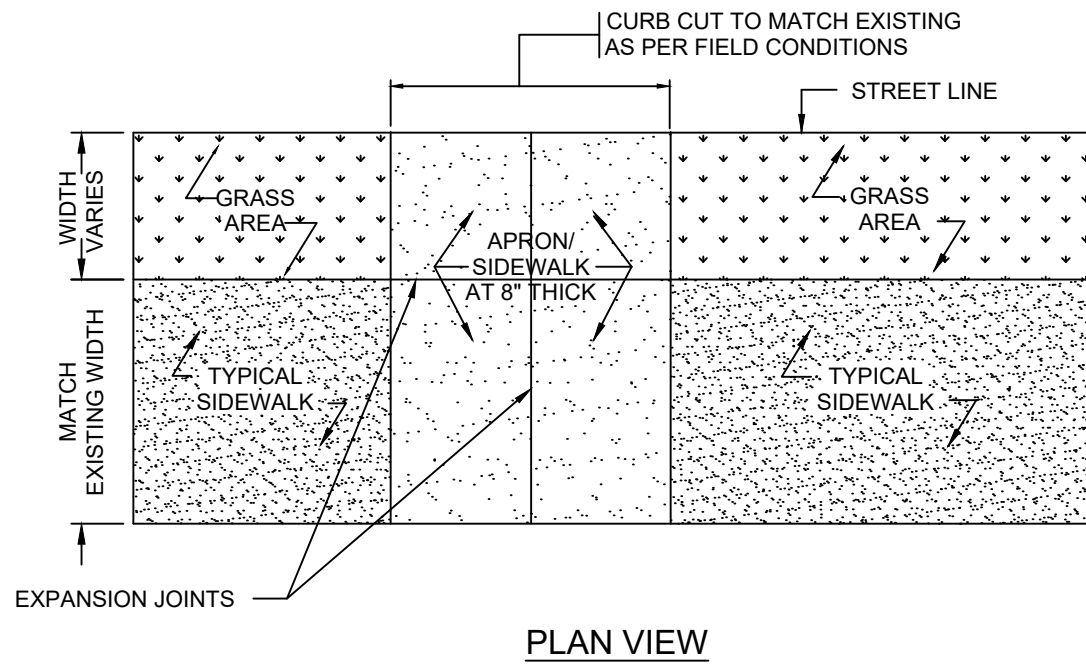
POLYPROPYLENE LADDER RUNG-STORM MH/INLETS
N.T.S.



CONCRETE SIDEWALK DETAIL



CURB DETAIL



DRIVEWAY APRON DETAIL

CONCRETE SIDEWALK, CURB AND DRIVEWAY APRON DETAILS
N.T.S.

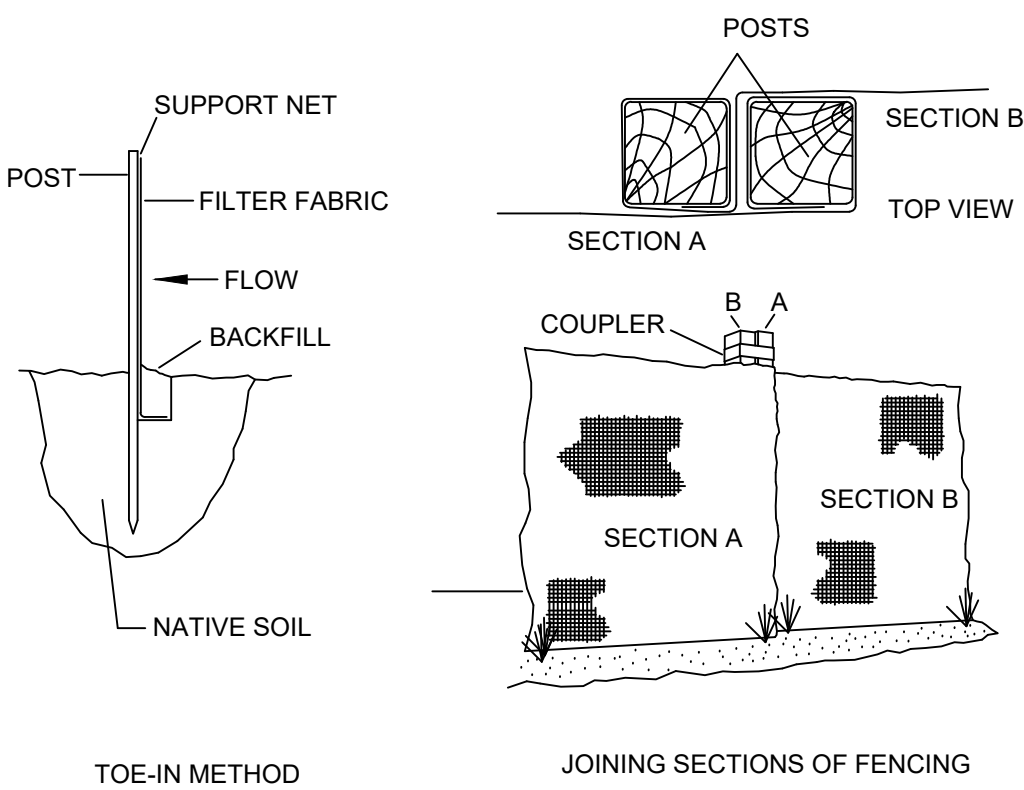
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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

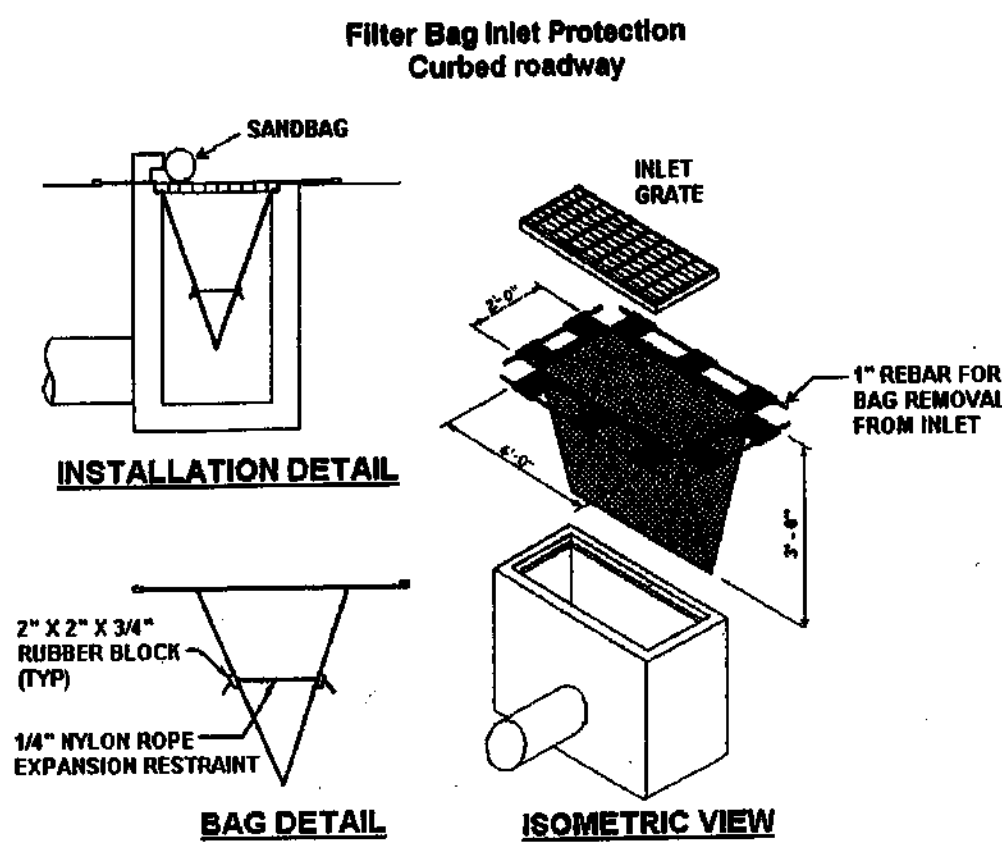
REV.	DATE	DESCRIPTION	project name
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK
			CONTRACT NO. VA 2022-06-1 HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS
			CONSTRUCTION DETAILS
drawn by	checked by	project no.	date
AL/MM	GB/AJ	430G	10/17/23
		scale	drawing no.
		AS SHOWN	13



INSTALLATION NOTES

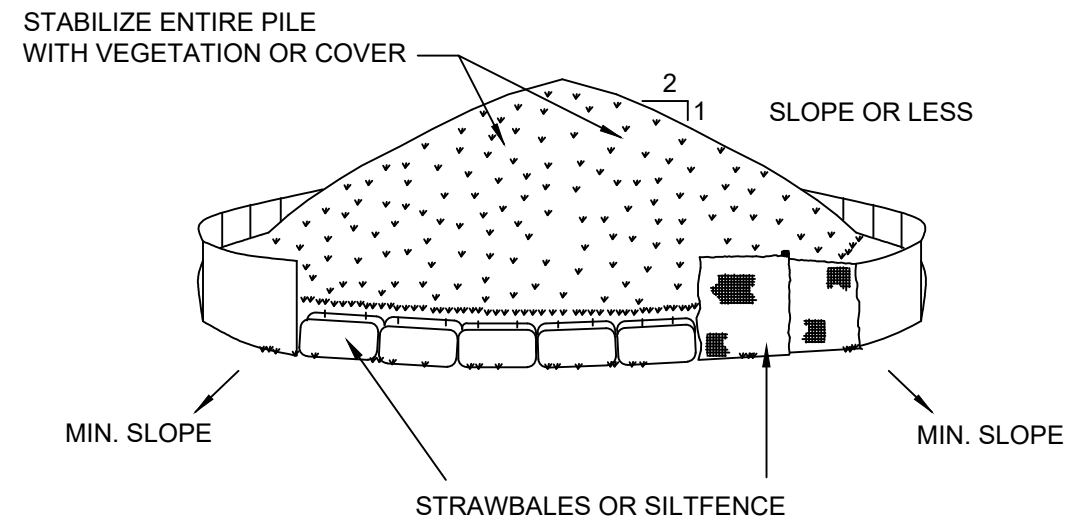
1. EXCAVATE A 6 INCH x 6 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
5. JOIN SECTIONS AS SHOWN ABOVE.
6. CONTRACTOR TO INSTALL SILT FENCE PER SITE CONDITIONS AND AS DIRECTED BY THE OWNER.

SILT FENCE DETAIL



**CONTRACTOR TO PROVIDE AND INSTALL
ENPAC STORM SENTINEL CATCH BASIN INSERT
AS MANUFACTURED BY ENPAC CORP. OR APPROVED EQUAL.
CUSTOMER SERVICE: 1-800-6ENPAC9**

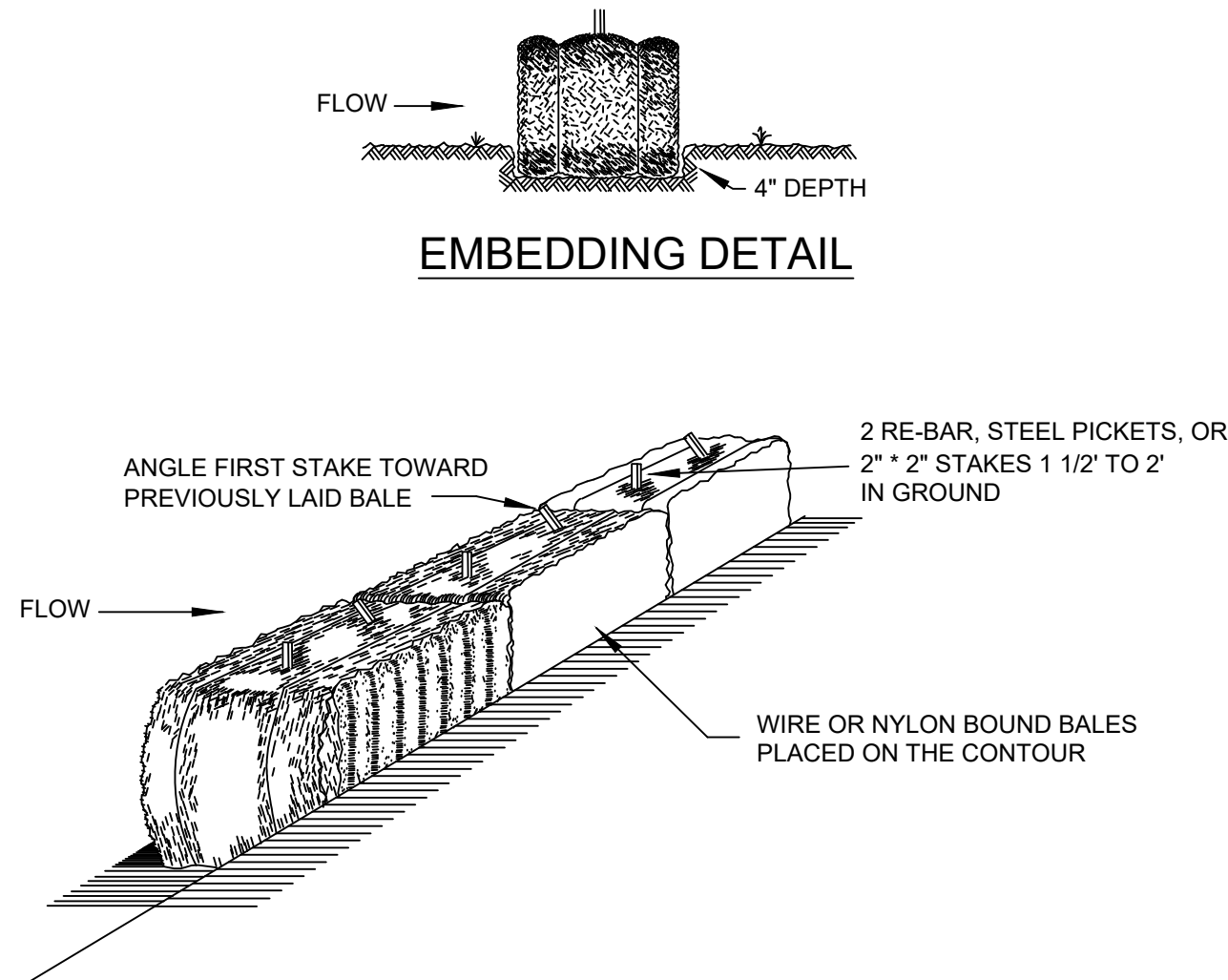
NOTE:
1. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CLEAN BAGS
2. BAGS ARE NOT TO BE USED ON MAJOR ROADS WHERE PONDING
MAY CAUSE TRAFFIC HAZARDS



INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE DETAILS FOR INSTALLATION OF SILTFENCE / STRAWBALE.

SOIL STOCKPILE DETAIL



INSTALLATION NOTES

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAWBALE SEDIMENT BARRIERS DETAIL

GENERAL NOTES

1. ONLY DETAILS NOTES RELEVANT TO THE SPECIFIC PUBLIC WATER SUPPLY IMPROVEMENTS SHOWN ON THE ATTACHED PLANS ARE APPLICABLE.
2. 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.
3. 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.
4. THE LOCATIONS AND 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.
5. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LINED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 21 DAYS.
6. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
7. 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.
8. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
9. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF "WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES MANUAL FOR EROSION AND SEDIMENT CONTROL".

PERMANENT VEGETATIVE STABILIZATION STANDARDS

1. APPLY TOPSOIL TO A DEPTH OF 4".
2. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS./1000 S.F.
3. APPLY FERTILIZER (10-20-10) AT A RATE OF 14 LBS./1000 S.F.
4. APPLY SEED MIXTURE: PERENNIAL RYEGRASS AT 10 LBS./ACRE, KENTUCKY BLUEGRASS AT 25 LBS./ACRE, RED FESCUE AT 15 LBS./ACRE, AND SPREADING FESCUE AT 15 LBS./ACRE OR APPROVED EQUAL.
5. MULCH WITH UNROTTED SALT HAY OR SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. APPLY AT A RATE OF 90 LBS./1000 S.F. OR LATEST STATE STANDARDS.

TEMPORARY VEGETATIVE STABILIZATION STANDARDS

1. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS./1000 S.F.
2. APPLY FERTILIZER (10-20-10) AT A RATE OF 14 LBS./1000 S.F. AND WORK INTO SOIL 4" DEEP.
3. APPLY SEED MIXTURE: PERENNIAL RYE GRASS AT 40 LBS./ACRE AND ANNUAL RYEGRASS AT 40 LBS./ACRE OR APPROVED EQUAL.
4. MULCH WITH UNROTTED SALT HAY OR SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. APPLY AT A RATE OF 90 LBS./1000 S.F. AND SECURE BY APPROVED METHODS (I.E. PEG AND TIME, MULCH NETTING OR LIQUID MULCH BINDER).
5. PLANT SEED BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1, IF POSSIBLE.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE WESTCHESTER COUNTY, NEW YORK BEST MANAGEMENT PRACTICES (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
3. IMMEDIATELY FOLLOWING THE ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE STATE STANDARDS.
4. STABILIZATION SPECIFICATIONS: (SEE TEMPORARY AND PERMANENT VEGETATIVE STABILIZATION STANDARDS ELSEWHERE ON THIS SHEET). ALL PLANTING SHALL BE DONE BETWEEN MARCH 1 AND MAY 15 OR AUGUST 15 AND OCTOBER 1.
5. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
6. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
7. A CRUSHED STONE, VEHICLE WHEEL CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2 1/2" CRUSHED STONE, 6" THICK, AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
8. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
9. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
10. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH FILTER BAG AS PER SITE CONDITIONS AND AS DIRECTED BY THE OWNER.
11. ALL DEWATERING OPERATIONS MUST DIRECTLY DISCHARGE INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. SEE DETAILS.
12. ALL TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES OR SEDIMENT BARRIERS. SEE DETAILS.
13. DUST SHALL BE CONTROLLED BY SPRINKLING SITE WITH WATER UNTIL SURFACE IS WET.

WESTCHESTER COUNTY DEPARTMENT OF HEALTH NOTE:
ONLY DETAILS RELEVANT TO THE SPECIFIC PUBLIC WATER SUPPLY IMPROVEMENTS SHOWN ON THE PLANS ARE APPLICABLE.

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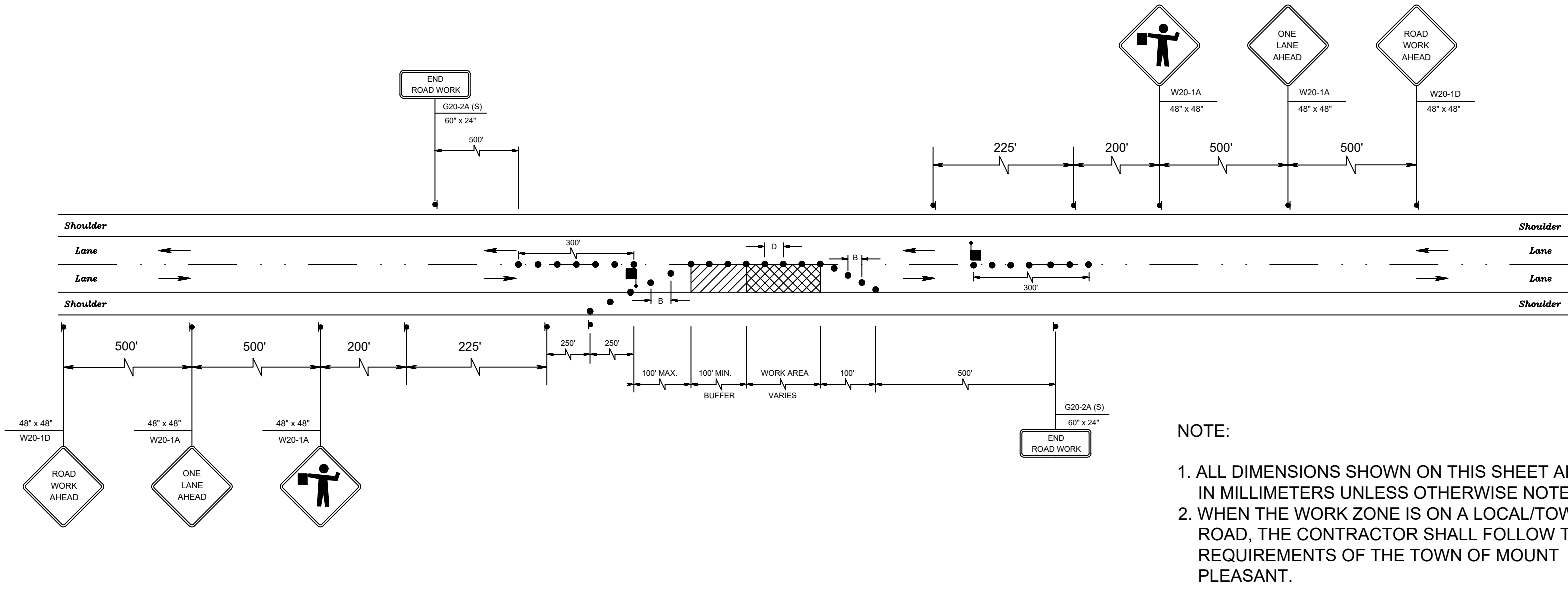
PCI *PROFESSIONAL CONSULTING, LLC.*
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PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK
			CONTRACT NO. VA 2022-06-1 HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS
			SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
drawn by	checked by	project no.	date
AL/MM	GB/AJ	430G	10/17/23
		scale	drawing no.
		AS SHOWN	14

TRAFFIC CONTROL PLAN WORK LANE CLOSURE OF LOCAL ROAD

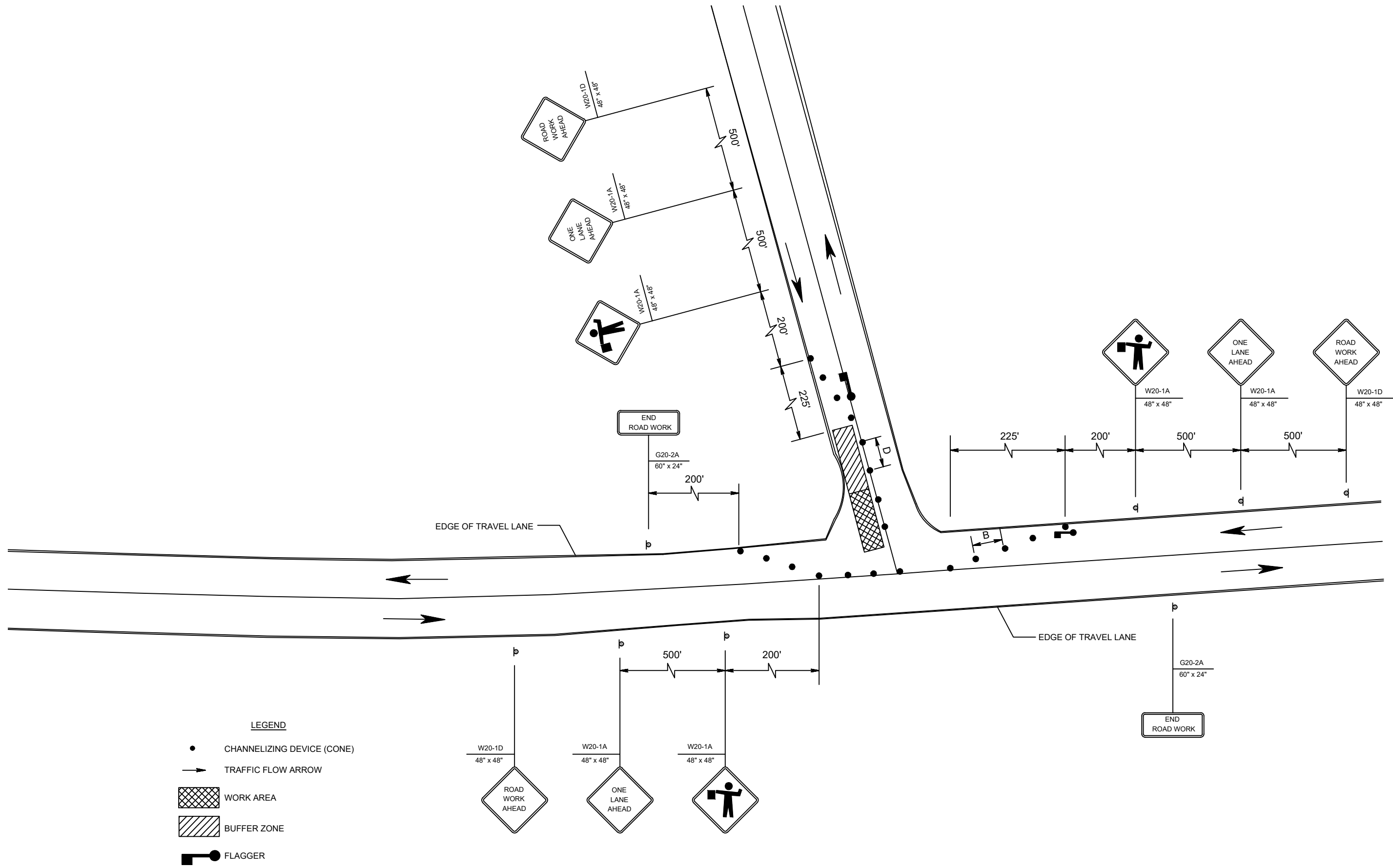
N.T.S.



- NOTE:
1. ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 2. WHEN THE WORK ZONE IS ON A LOCAL/TOWN ROAD, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE TOWN OF MOUNT PLEASANT.

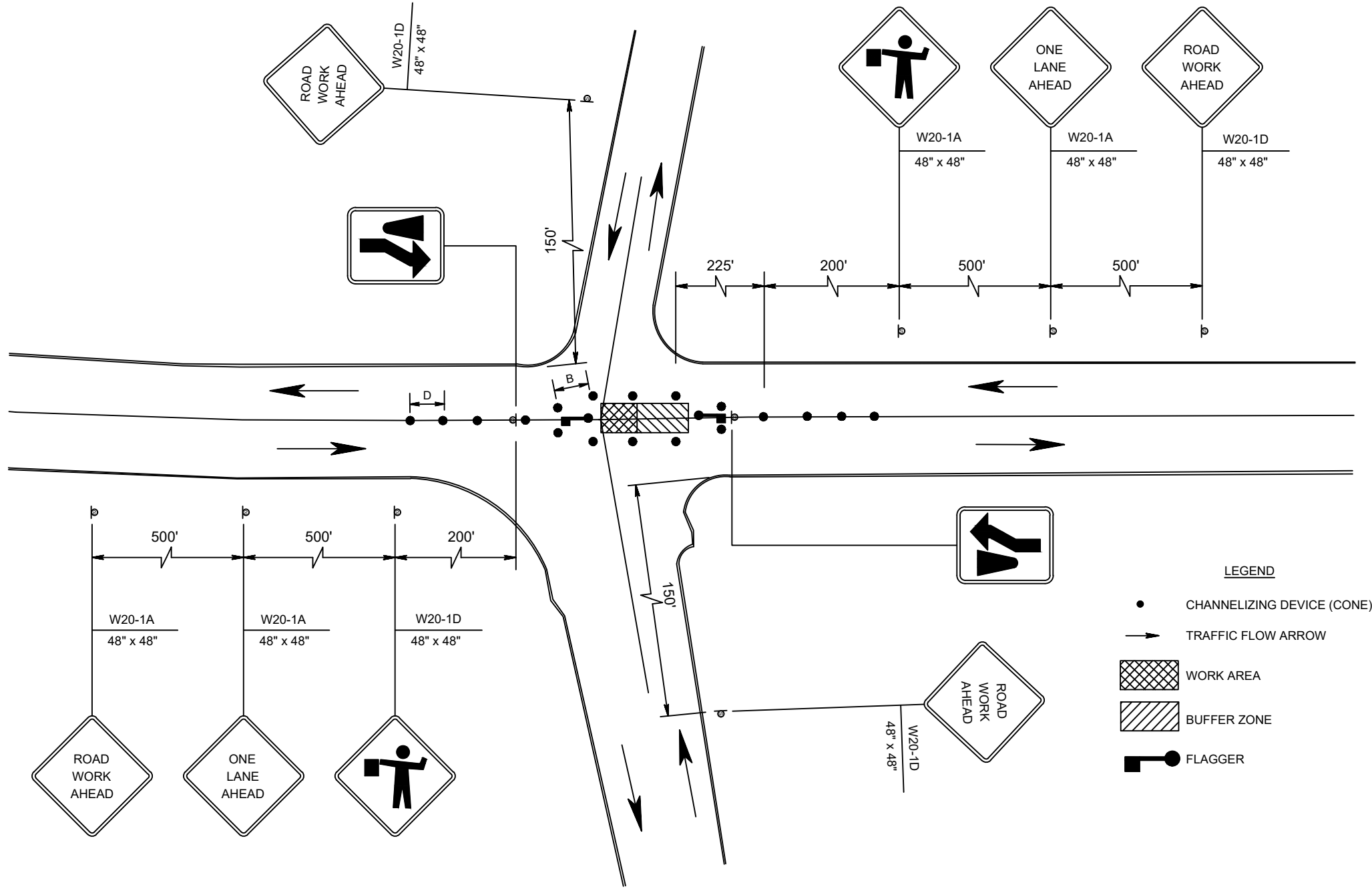
TRAFFIC CONTROL PLAN WORK AT INTERSECTION OF LOCAL ROAD

N.T.S.



TRAFFIC CONTROL PLAN WORK IN CENTER OF LOCAL ROAD

N.T.S.



RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					RECOMMENDED SPACING ALONG TANGENTS	
REGULATORY APPROACH SPEED OF TRAFFIC IN MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L-FOR LANE WIDTHS			MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
25	10.5:1	105	115	125	25	50
30	15.0:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27.0:1	270	295	320	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110

- NOTE:
1. ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN FEET UNLESS OTHERWISE NOTED.
 2. THE DETAILS SHOWN ARE BASED ON THE MUTCD AND STATE REQUIREMENTS. ANY SPECIFIC DETAIL WILL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE DEPARTMENT FOR COMPLIANCE.

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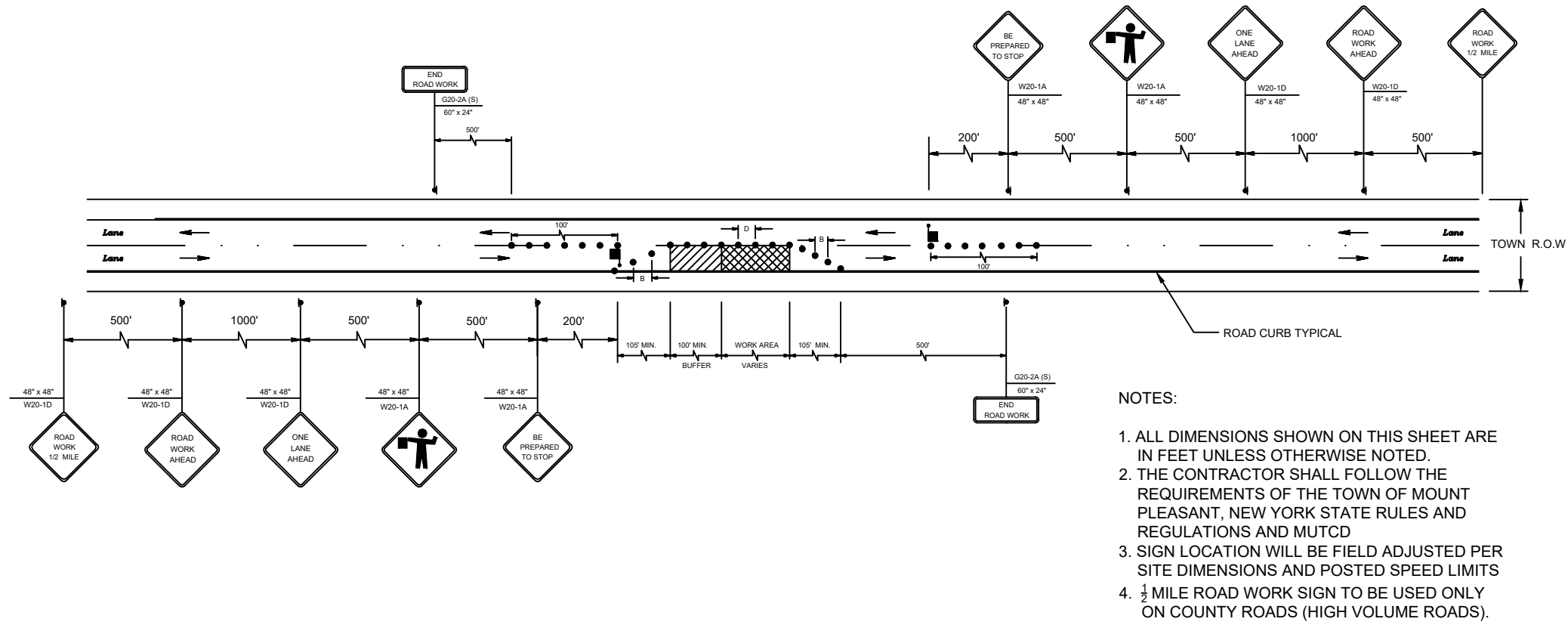
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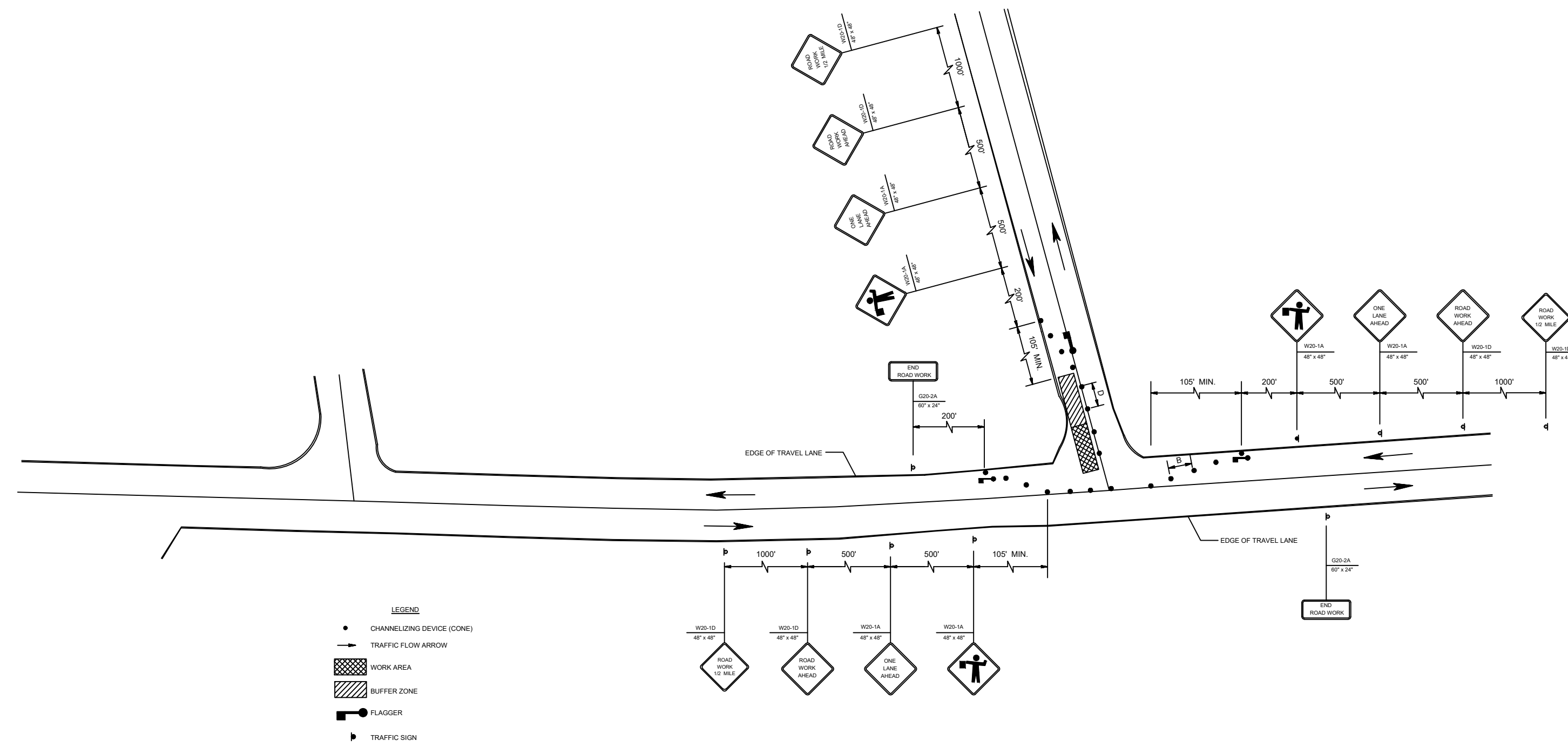
N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-1 HAMILTON AVENUE, SUSSEX AVENUE, AND HOMESDALE ROAD DRAINAGE IMPROVEMENTS			
			TRAFFIC CONTROL PLANS - LOW VOLUME ROADS			
drawn by		checked by	project no.	date	scale	drawing no.
AL/MM		GB/AJ	430G	10/17/23	AS SHOWN	15



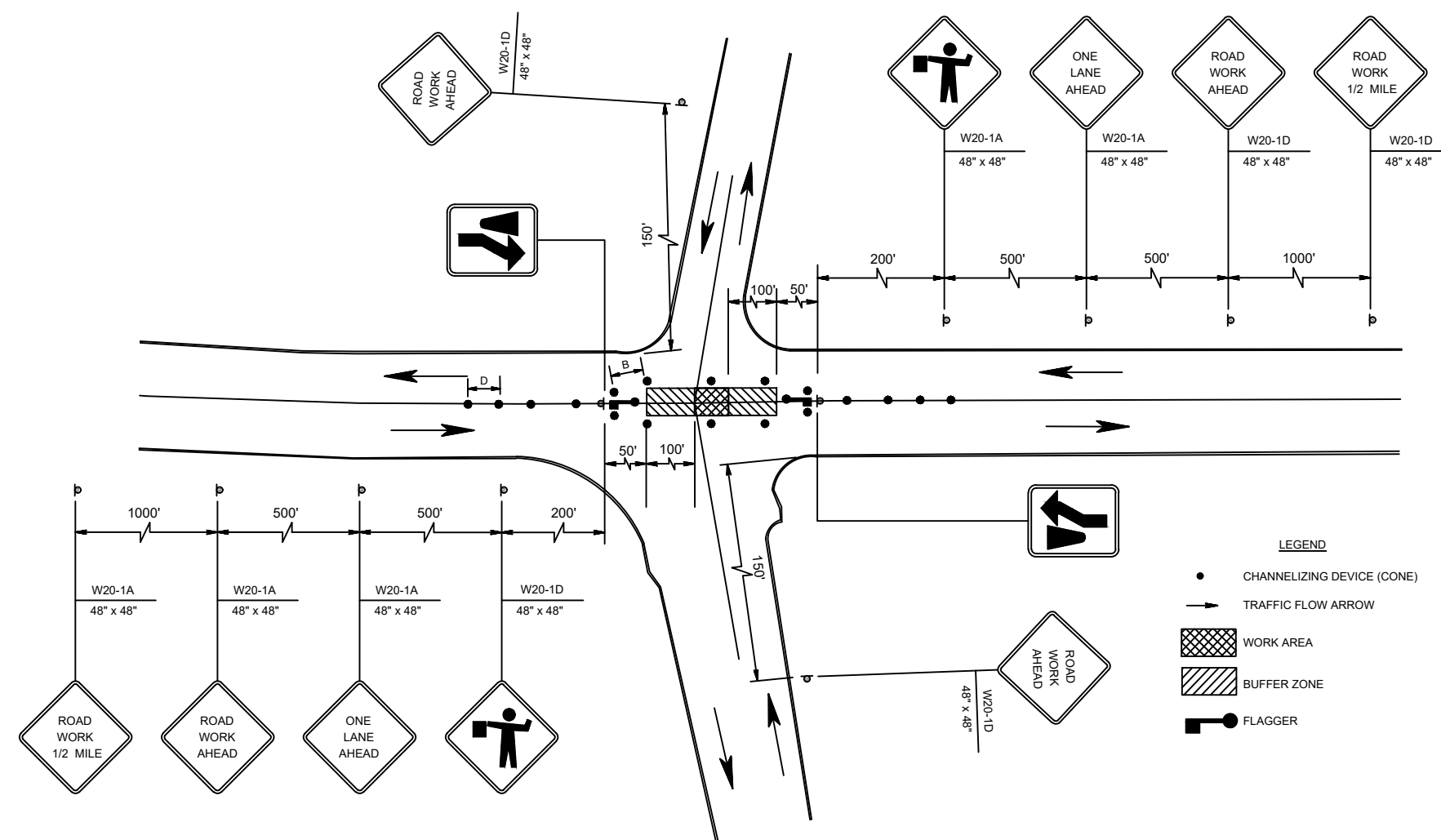
TRAFFIC CONTROL PLAN WORK LANE CLOSURE AT HIGH VOLUME COUNTY ROAD

N.T.S.



TRAFFIC CONTROL PLAN WORK AT INTERSECTION OF HIGH VOLUME COUNTY ROAD

N.T.S.



TRAFFIC CONTROL PLAN WORK IN CENTER OF HIGH VOLUME COUNTY ROAD

N.T.S.

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					RECOMMENDED SPACING ALONG TANGENTS	
REGULATORY APPROACH SPEED OF TRAFFIC IN MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L-FOR LANE WIDTHS			MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
		10 FT	11 FT	12 FT		
25	10.5:1	105	115	125	25	50
30	15.0:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27.0:1	270	295	320	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110

NOTE:
1. ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN FEET UNLESS OTHERWISE NOTED.
2. THE DETAILS SHOWN ARE BASED ON THE MUTCD AND STATE REQUIREMENTS. ANY SPECIFIC DETAIL WILL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE DEPARTMENT FOR COMPLIANCE.

WESTCHESTER COUNTY DEPARTMENT OF HEALTH NOTE:
ONLY DETAILS RELEVANT TO THE SPECIFIC PUBLIC WATER SUPPLY IMPROVEMENTS SHOWN ON THE PLANS ARE APPLICABLE.

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drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430G	10/17/23	AS SHOWN	16	