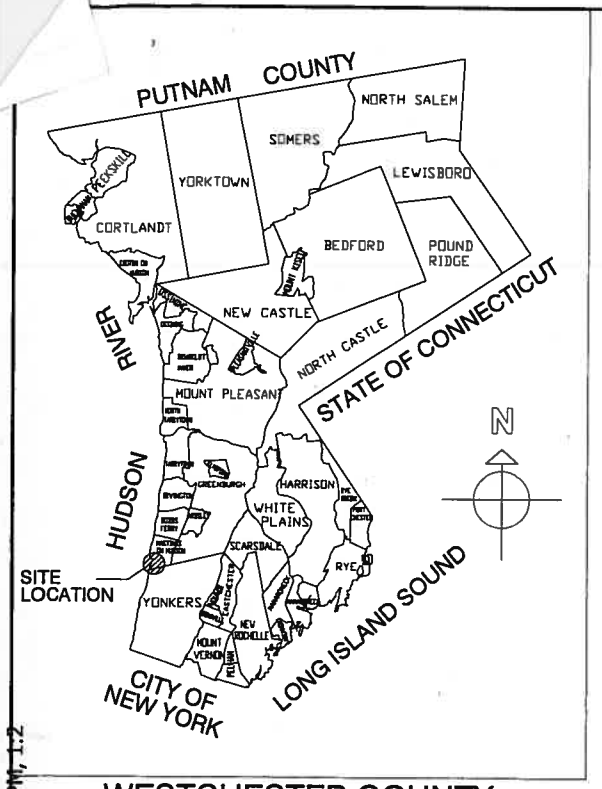

WESTCHESTER COUNTY

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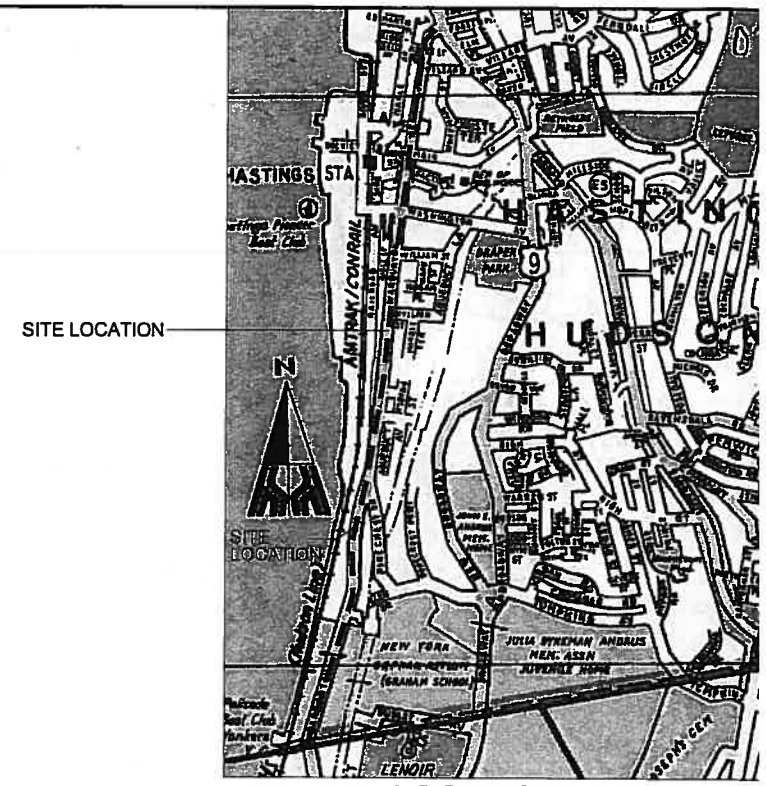
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION
DIVISION OF ENGINEERING

CONTRACT No. 16-526
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NY



LOCATION MAP
SCALE: N.T.S.

LIST OF DRAWINGS

DPW #	Sheet #	Drawing Title
GENERAL		
43-75I-T-92-0	1.	TITLE SHEET
43-75I-G-93-0	2.	GENERAL NOTES
43-75I-G-94-0	3.	ROADWAY & BRIDGE SECTIONS
43-75I-G-95-0	4.	BASIC WORK TRAFFIC CONTROL NOTES
48-75I-G-96-0	5.	BASIC WORK TRAFFIC CONTROL PLANS I
48-75I-G-97-0	6.	BASIC WORK TRAFFIC CONTROL PLANS II
AREA A		
43-75I-R-98-0	7.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-99-0	8.	LAYOUT & MATERIALS
tab →	9.	SIGNAGE & STRIPING
43-75I-R-100-0	10.	GRADING & DRAINAGE PLAN
AREA B		
43-75I-R-101-0	11.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-102-0	12.	LAYOUT & MATERIALS
tab →	13.	SIGNAGE & STRIPING
43-75I-R-103-0	14.	GRADING & DRAINAGE PLAN
AREA C		
43-75I-R-98-0	15.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-99-0	16.	LAYOUT & MATERIALS
tab →	17.	SIGNAGE & STRIPING
43-75I-R-100-0	18.	GRADING & DRAINAGE PLAN

DPW #	Sheet #	Drawing Title
AREA D		
43-75I-R-101-0	19.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-102-0	20.	LAYOUT & MATERIALS
	21.	SIGNAGE & STRIPING
43-75I-R-103-0	22.	GRADING & DRAINAGE PLAN
AREA E		
43-75I-R-98-0	23.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-99-0	24.	LAYOUT & MATERIALS
	25.	SIGNAGE & STRIPING
43-75I-R-100-0	26.	GRADING & DRAINAGE PLAN
AREA F		
43-75I-R-101-0	27.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-102-0	28.	LAYOUT & MATERIALS
	29.	SIGNAGE & STRIPING
43-75I-R-103-0	30.	GRADING & DRAINAGE PLAN
AREA G		
43-75I-R-98-0	31.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-99-0	32.	LAYOUT & MATERIALS
	33.	SIGNAGE & STRIPING
43-75I-R-100-0	34.	GRADING & DRAINAGE PLAN

DPW #	Sheet #	Drawing Title
AREA H		
43-75I-R-101-0	35.	SITE PREPARATION & DEMOLITION PLAN
43-75I-R-102-0	36.	LAYOUT & MATERIALS
	37.	SIGNAGE & STRIPING
43-75I-R-103-0	38.	GRADING & DRAINAGE PLAN
DETAILS		
43-75I-R-90-0	39.	SITE PREPARATION & RESTORATION DETAILS
43-75I-R-90-0	40.	ASPHALT PAVEMENT DETAILS
43-75I-R-91-0	41.	CONCRETE PAVEMENT DETAILS
43-75I-R-92-0	42.	CONCRETE REPAIR DETAILS
43-75I-R-92-0	43.	DRAINAGE AND LANDSCAPE DETAILS
	44.	MISCELLANEOUS DETAILS
43-75I-R-93-0	45.	PAVEMENT MARKING DETAILS
	46.	MISCELLANEOUS DETAILS II
43-75I-R-94-0	47.	SIGNAGE & TRAFFIC DETAILS
43-75I-R-95-0	48.	GUIDE RAIL & FENCING DETAILS

PERMIT INFORMATION

1) Any additional permits and fees required to complete the work are the responsibility of the Contractor.
2) STATE HIGHWAY PERMIT submitted on [ADD DATE] approved on [ADD DATE]
3) Any work done in the state right of way shall be built according to the current NYS Standard Specifications for Constructions and Materials, dated May 1, 2008 and all addenda thereto. Any structures located in the state right of way shall be certified by the manufacturer that the item is built according to the current NYS Standard Specifications for Constructions and Materials, dated May 1, 2008 and all addenda thereto.

PERMANENT MAINTENANCE SCHEDULE

NYSDOT (BROADWAY)	ROAD BED & SURFACE, TRAFFIC SIGNAL, STRIPING & TRAFFIC CONTROL
COUNTY (WARBURTON AVE)	ROAD BED & SURFACE
VILLAGE OF HASTINGS	CURB, SIDEWALKS, DRAINAGE, TRAFFIC SIGNAL, STREET TREES, LITTER & SNOW REMOVAL, AND EVERYTHING ELSE BEYOND THE EDGE OF ROADWAY & WITHIN THE R.O.W.

60% SUBMISSION

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

RECOMMENDED FOR CONSTRUCTION DATE
ANTHONY J. VENTAROLA, P.E.
ASSOCIATE ENGINEER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

RECOMMENDED FOR CONSTRUCTION DATE
JOSEPH J. NICOLETTI, JR., P.E.
FIRST DEPUTY COMMISSIONER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

APPROVED FOR CONSTRUCTION DATE
VINCENT F. KOPICKI, P.E.
COMMISSIONER
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

TITLE SHEET

CONTRACT NUMBER 16-526
SHEET NUMBER 1
SHEET NO. 1 OF 37
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-T-XX-0

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-I)\Contracts\16-526 Warburton Ave Resurfacing\drawing\title.dwg, 11/1/2017 4:02:26 PM, 1:2

SCOPE OF WORK

The work under this contract consists of providing all necessary labor, material and equipment required for milling and paving Warburton Ave (CR 751) from Broadway to City line of Yonkers, including concrete sidewalks, roadway repair and curb replacement, pavement striping, traffic loop replacement and other ancillary landscape and drainage work.

General Notes

1. The Contractor shall visit the site and familiarize himself with existing site conditions prior to submitting a bid. He shall check, and verify all conditions and dimensions and report any discrepancies, where evident, to Westchester County prior to the bid.

2. All pay items shown on Plans refer to the latest version of the New York State Department of Transportation Standard Specifications for construction and materials and all addenda thereto, excluding pay items that begin with a "W" which are Westchester County Special Specifications (see specification book for descriptions).

3. Work pertaining to modifications, as may be required, due to any difference between actual field conditions and those shown by the details and dimensions on the contract plans, will be paid at the unit bid price for the actual quantities of materials used or for the work performed, as indicated by the various items in the contract.

4. The contractor is responsible for examining the areas of proposed work as to the actual conditions and requirements of work prior to submitting a bid. He/she shall check and verify all conditions and dimensions, and any discrepancies between the drawings and field conditions shall be brought to the attention of the Engineer in writing prior to commencement of work.

5. The contractor will be held responsible for all damages to the existing facilities caused by his operations which are not included as part of the intended work. All damages to the existing facilities which are not part of the intended work shall be repaired by the Contractor without cost to the County, and to the satisfaction of the Engineer.

6. All work shall be done and installed in compliance with all laws, rules and regulations of the local municipality and shall comply with the latest edition of the New York State Fire Prevention and Building Code, including all reference standards. All materials and equipment used in the project shall conform to and have approvals in accordance with any other public authorities or agencies having jurisdiction over the project. The contractor shall protect his workers at all times in conformance with applicable OSHA regulations.

7. Access to all adjoining facilities shall be maintained at all times where reasonably possible. Property manager/owners must be notified in advance of any temporary driveway closures. See Construction Staging Note #4.

8. The Contractor will be required to perform maintenance cleaning of the pavement when ordered by the Engineer. Maintenance cleaning shall mean the removal of debris from any source, which in the opinion of the Engineer impedes flow of traffic or storm water. This requirement shall not be construed to change the provisions of Article 619-1.02B Snow and Ice Control (NYSDOT Standard Specifications).

9. Areas beyond the work limits disturbed for any reason by the Contractor and his employees, shall be restored to the satisfaction of the Engineer at the Contractor's expense.

10. The Contractor's attention is directed to the fact that due to the nature of reconstruction projects, the exact extent of reconstruction work cannot always be accurately determined prior to the commencement of work. These contract documents have been prepared based on field inspection and other available information. Actual field conditions may require modifications to construction details and work quantities. The contractor shall perform the work in accordance with field conditions and as directed by the Engineer.

11. "A.O.B.E." indicates work to be performed as ordered by Engineer.

12. The Contractor shall take positive steps to prevent the splattering of vehicles. The Contractor shall provide for the prompt cleaning of any vehicles splattered by Contractor's operations and shall pay for the cleaning. The cost for this work shall be include in the price bid for the various items in the contract.

Paving and Milling

confirm w/ Village

1. Tack coat - in addition to the distributor equipment described in the specifications, small power spray units or hand-held spray equipment, as approved by the Engineer, may be used in the areas where use of the distributor is impractical, such as narrow irregular areas, intersections and other locations where traffic must be allowed to cross the pavement.

2. Tack coat shall be applied to any asphalt concrete pavement except when the existing surface is excessively flushed, as determined by the Engineer.

3. Where pavement keys are cut into the existing pavement in preparation for the overlay at the limits of resurfacing, prior to reopening the roadway to traffic, the Contractor shall either place the proposed asphalt overlay immediately or place a temporary wedge (4' min. width a.o.b.e.) of asphalt to eliminate the bump created by the pavement key. The cost of this work shall be included in the price bid for the paving items.

4. The contractor shall exercise care in his cold milling and removal operations so as not to unduly disturb or damage underlying materials which are to remain in place. If the contractor damages any materials that are to remain in place, the damaged materials shall be either repaired or replaced in a manner satisfactory to the Engineer at the expense of the contractor. The Contractor shall keep the roadway within the project limits clear of debris and dust and is responsible for any street cleaning necessary during the course of the project.

5. Prior to opening crosswalks to pedestrians after milling operations, the crosswalk area shall be inspected by the Engineer to ensure an even walking surface for pedestrians for safety issues. Walking surfaces deemed unsafe shall be corrected by the Contractor as directed by the Engineer.

6. The contractor is solely responsible for properly securing any required water for milling, saw cutting and other operations. The County and municipalities will not be able to provide this.

7. Pavement shall be cleaned after milling, and directly before paving. This work is included in the milling item.

Staging Areas

1. Due to the populated locations of some of the work sites, there will be limited areas for staging available for work operations on or off County property. Therefore, equipment must be removed from work areas at the end of each work day, unless approved in writing by the Engineer.

2. Any staging area for equipment and material storage, for the contract, must be approved by the Engineer and municipality and restored to its original condition after completion of the project. No separate payment will be made for this work.

3. The Contractor's attention is directed to the fact that because of the proximity of adjacent property, within the limits of this contract, there may not be exclusive occupancy of the territory within the limits of this contract.

3. Whenever items in the contract require materials to be removed and disposed of, the cost of supplying a disposal area and transportation to that area shall be included in the unit price bid for those items.

Construction Staging

1. Roads are limited to a single lane closure at any given time. Full closures and detours will not be permitted without written permission from the Engineer, and the Village of Hastings.

2. This roadway is a major arterial and as such has a large volume of traffic during the day that must be maintained. Because of this fact the Contractor will be required to perform the milling and paving operations at night between 10:00 pm and 6:00 am. No lane closures are permitted on weekends or 7:00 am to 9:30am and 3:00 pm to 7:00 pm on weekdays. Work may be permitted on weekends only with the written permission of the Engineer and the Village of Hastings. All work shall be limited to one "segment" or zone, only one side of the travelled way at a time only with the written permission of the Engineer. A work "segment" or zone is defined as that area in which traffic is restricted because of construction activities in the travel way, or that area that invokes a drop-off next to the pavement.

3. A schedule of operations shall be provided to the County prior to start of work, indicating which roads will be affected by work and allowing proper notification.

4. Before restricting the normal flow of traffic in any way, the Contractor shall give forty-eight (48) hours prior notice to the County, and the Village of Hastings. In addition,-he shall give forty-eight (48) hours notice to all residents and/or businesses having driveways and entrances within the contract limits before commencing any operations which will temporarily interfere with their use. The Contractor shall assign a responsible employee to give the aforementioned notices in writing after concurrence with the Engineer.

5. Police for traffic services shall be utilized at work locations where it is required by municipal regulation, or at the discretion of the Engineer, and paid accordingly from item W911.

Utilities

1. The location, size, depth and completeness of information of existing utilities are not guaranteed. The Contractor shall adhere to the regulations of the State of New York, Department of Public Service code 16 NYCRR Part 753- "Protection of Underground Facilities;" call 1-800-962-7962 prior to commencing any work. Where excavation is required under this contract, the Contractor shall verify actual locations by excavating test pits under the direction of the respective utility company. Test pits paid for under Item 206.05.

2. The Contractor shall be responsible for locating surface utility fixtures, such as valve boxes & electrical manholes. Care should be taken not to damage said facilities, or bury them under new layers of pavement. Existing damaged facilities should be reported to the Engineer and the appropriate utility company.

Testing of Materials

1. Material testing shall be paid under Item W851, and shall be used at the discretion of the Engineer. Such testing involves, but not limited to, asphalt density testing, concrete cylinders and slump measurement and may include pavement cores.

2. The County reserves the right to weigh all asphalt material trucks on site.

Erosion Control Notes

1) All proposed soil erosion and sediment control practices have been designed in accordance with the most recent editions of the New York State Stormwater Management Design Manual and the New York State Standards and Specifications for Erosion and Sediment Control. The contractor shall comply with all applicable stormwater management, water quality control, erosion, and sediment control laws, rules, regulations and permits.

2) Sediment and erosion control practices shall be installed prior to any major soil disturbances and maintained until permanent protection is established.

3) The contractor shall be responsible for the timely maintenance of sediment and erosion control practices. All practices shall be maintained in good working order. The sediment level in all sediment traps shall be closely monitored and sediment removed when maximum levels are reached or as ordered by the construction administrator. All sediment control practices shall be inspected on a regular basis, and after rainfall events greater than half an inch to ensure proper operation as designed.

4) All soils not being used for final grading shall be immediately, protected, stabilized and stockpiled in a location away from storm drains and waterbodies as approved by the construction administrator. All soil stockpiles shall be limed, fertilized, temporarily seeded with annual or perennial ryegrass or oats within 14 days once it is known the soil stockpile will not be used for a period of time greater than 14 days. The cost of such protection and stabilization shall be deemed included in the various items of the contract. No Direct Payment.

5) Any disturbed areas that will be left exposed for more than 21 days and are not subject to construction traffic shall be stabilized with temporary seeding. Erosion control fabric or mulch shall be used on all disturbed areas if the season prevents the establishment of a temporary cover for temporary stabilization. Erosion control fabric shall be used to temporarily stabilize steep slopes (slope gradient of 2:1 or greater). Disturbed areas shall be limed and fertilize prior to temporary seeding.

6) All disturbed areas within 500 feet of an inhabited dwelling shall be wetted as necessary to ensure dust control.

7) Temporary sediment and erosion control practices shall be removed and permanent sediment and erosion control practices implemented, where specified, when the drainage area, including all roads, driveways, and parking areas used during the course of construction has been properly stabilized by permanent practices in accordance with the New York State Stormwater Management Design Manual and the New York State Standards and Specifications for Erosion and Sediment Control.

8) The contractor shall phase the construction in a manner that there will be no more than five acres of soil disturbance at any one time.

THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS. SUCH NOTES WHILE PERTAINING TO SPECIFIC DRAWINGS WHERE THEY ARE PLACED, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.

IN CHARGE OF A. VENTAROLA, P.E.
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR: NAME ____ SIGNATURE ____ TITLE ____ DATE ____
PROJECT COORDINATOR: NAME ____ SIGNATURE ____ TITLE ____ DATE ____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GENERAL NOTES

CONTRACT NUMBER 16-526
SHEET NUMBER 2
SHEET NO. 2 OF 3
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-T-XX-0

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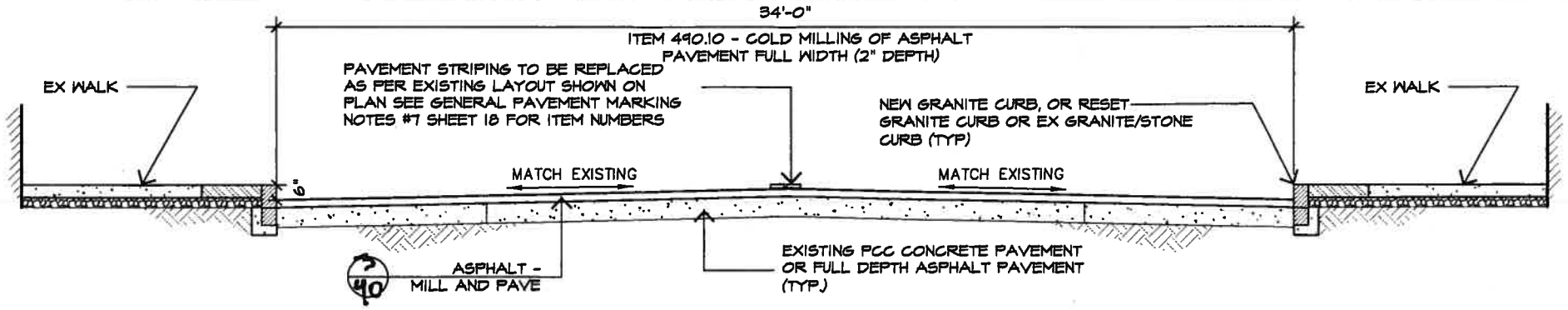
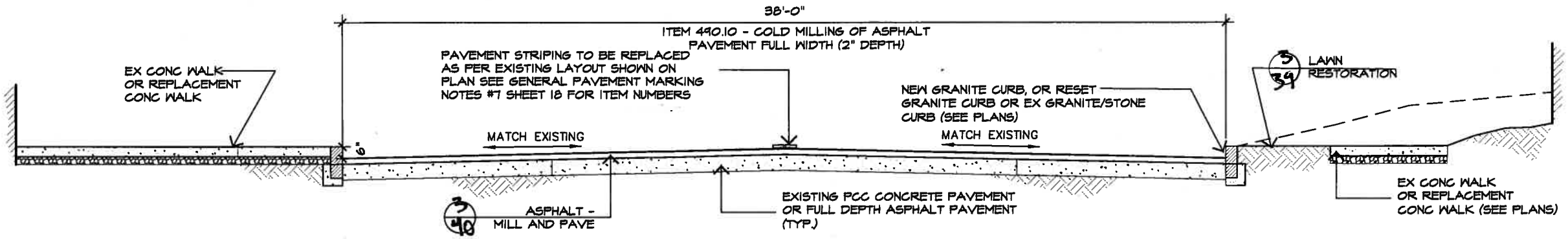


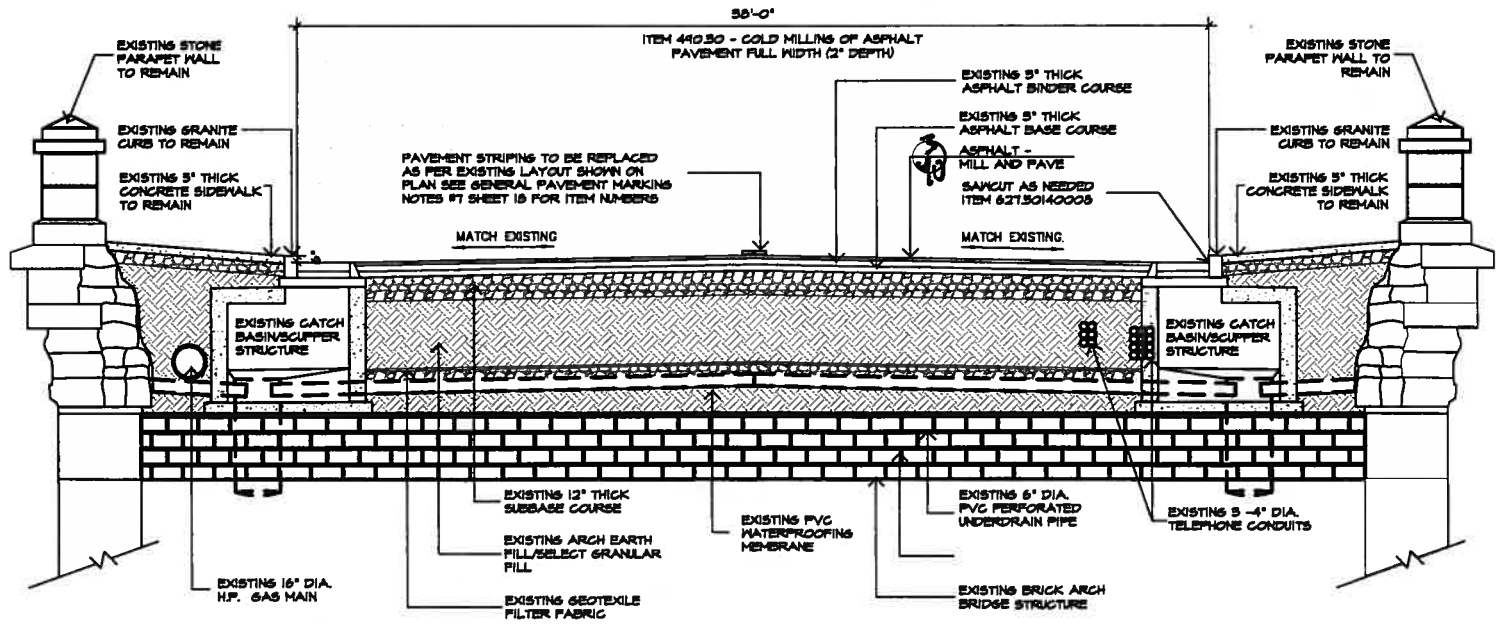
1/34 FULL WIDTH RESURFACING OF ROADWAY
STA 0+00 TO 14+00 (BROADWAY TO MAIN STREET)

SCALE 3/8" = 1'-0'



2/34 FULL WIDTH RESURFACING OF ROADWAY
STA 19+50 TO 79+72 (WASHINGTON STREET TO YONKERS CITY LINE)

SCALE 3/8" = 1'-0'



3/34 FULL WIDTH RESURFACING OF BRIDGE 3348260
STA 0+66 TO 1+00

SCALE 1/4" = 1'-0'

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

ROADWAY AND BRIDGE SECTIONS

CONTRACT NUMBER 16-526
SHEET NUMBE 3
SHEET NO. 3 OF 3
SCALE: AS SHOV
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

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GENERAL NOTES (01/08/09)

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.

2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.

3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.

2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.

3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.

4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.

6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.

7. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.

2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.

2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.

2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

TABLE NY1-A
BARRIER VEHICLE USE REQUIREMENTS
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION [1]	USE REQUIREMENTS [4,5]			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			w 45 MPH	35-40 MPH	30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED [3]	REQUIRED [3]	REQUIRED [3]	OPTIONAL [2]
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED [3]	REQUIRED [3]	OPTIONAL [2]	OPTIONAL [2]
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED [3]	REQUIRED [3]	OPTIONAL [2]	OPTIONAL [2]
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED [3]	OPTIONAL [2]	OPTIONAL [2]	OPTIONAL [2]

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARYTRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.

2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRANSVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.

4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE6C-2) SHALL BE PROVIDED.

TABLE NY6H-3
ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (w 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	? MILE

* PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: (MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) SIDEWALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS, DRIVEWAY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARACTERISTICS

EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) (FT.)	
(40 MPH) OR LESS	$L = WS^2/60$	L = TAPER LENGTH W = WIDTH OF OFFSET (FT.) S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)
(45 MPH) OR MORE	L = WS	

STANDARD TAPER LENGTHS

LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED SPEED LIMIT									
	(25 MPH)	(30 MPH)	(35 MPH)	(40 MPH)	(45 MPH)	(50 MPH)	(55 MPH)	(60 MPH)	(65 MPH)	(70 MPH)
4	45	60	85	110	180	200	220	240	260	280
5	55	75	105	135	225	250	275	300	325	350
6	65	90	125	160	270	300	330	360	390	420
7	75	105	145	190	315	350	385	420	455	490
8	85	120	165	215	360	400	440	480	520	560
9	95	135	185	240	405	450	495	540	585	630
10	105	150	205	270	450	500	550	600	650	700
11	115	165	225	295	495	550	605	660	715	770
12	125	180	245	320	540	600	660	720	780	840

TABLE 6C-2
LONGITUDINAL BUFFER SPACE

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE
25	155 FT.
30	200 FT.
35	250 FT.
40	305 FT.
45	360 FT.
50	425 FT.
55	495 FT.
60	570 FT.
65	645 FT.

WORK DURATION DEFINITIONS

LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.

INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.

SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
			LUMINAIRE
	ARROW PANEL		PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	ARROW PANEL, CAUTION MODE		SIGN, TEMPORARY
	ARROW PANEL TRAILER OR SUPPORT		TEMPORARY BARRIER
	CHANGEABLE MESSAGE SIGN (PVMS)		TEMPORARY BARRIER WITH WARNING LIGHTS
	CHANNELIZING DEVICE		TRAFFIC OR PEDESTRIAN SIGNAL
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR		TYPE III BARRICADE
	DIRECTION OF TEMPORARY TRAFFIC DETOUR		WARNING LIGHTS
	DIRECTION OF TRAFFIC		WORK SPACE
	FLAGGER		WORK VEHICLE
	FLAG TREE		WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

IN CHARGE OF A. VENTAROLA, P.E.
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

BASIC WORK TRAFFIC CONTROL NOTES

CONTRACT NUMBER 16-526
SHEET NUMBER 4
SHEET NO. 4 OF 37
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-T-XX-0

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Basic Work Traffic Control

1. Basic Work Traffic Control shall be provided in accordance with section 619 of the NYS Standard Specifications and the 2009 edition MUTCD (including the 2010 NYS Supplement), and subsequent addenda, and any provisions contained in the plans and/or proposal of this contract.

2. The Contractor shall be responsible for all basic work zone traffic control. Maintenance of traffic schemes shall be in accordance with the plans and as approved or directed by the Engineer. Traffic schemes shown on the plans are to be considered minimum requirements. The Engineer may order additional signs, flaggers, cones, reflectorization etc., if deemed necessary at no additional cost to the County. Payment for all such work shall be included in the Series 619 items.

3. Prior to the start of work, the Contractor may submit any proposed changes to the traffic control plan to the Engineer for approval. Any changes which alter the basic concept of the plan must be approved by the Engineer.

4. The Contractor must notify the Engineer, and all municipalities, police department, and fire departments involved of all work that might affect the mobility or access of the fire or police department 48 hours in advance of their implementation. In addition, the contractor shall ensure that hydrants and alarm boxes are kept clear and accessible.

5. The Contractor shall provide a flagger with appropriate signing whenever operations interfere with traffic. Examples include, but are not limited to: delivery and removal of materials, lift operations, restricted sight distances, impedance of normal traffic flow and other activities. Cost shall be included in item 619.01.

6. All single type III construction barricades and drums shall be of like new condition and shall require type C - Low Intensity", steady lights unless other wise noted on the plans.

7. Type A flashing low intensity warning lights shall be mounted on the first three drums in a taper. Cost to be included under item 619.01.

8. For nighttime work, Type B flashing high intensity warning lights shall be mounted on all warning signs ("w-series"). Cost to be included under item 619.01.

9. Pedestrian access to businesses must be maintained throughout the construction process. In order to maintain access to existing building, the Contractor must provide ramps with handrails if the sidewalk is not passable.

10. The maintenance of traffic for both pedestrians and vehicles shall be the responsibility of the Contractor.

11. When necessary the Contractor shall construct temporary ramps, crossovers, etc. to permit safe and easy passage through the contract area. He shall provide suitable areas and locations from the loading and unloading of passengers on roads within the contract limits that are serviced by motor buses. The Contractor shall be liable and responsible for the materials and workmanship required to provide adequate and safe crossing structures for pedestrians.

Construction Signage

12. All construction signs shall have a fluorescent orange background and black letters and border unless otherwise specified. orange construction sign material requirements shall be: 1) Scotchlite durable fluorescent diamond grade sheeting (3924/g orange) as manufactured by the 3m company, or 2) Stimsomite's fluorescent orange high-performance grade retroflective sheeting no. 4370, or approved equal. Sign materials must be in compliance with most recent version of NYSDOT specifications and MUTCD/NYS Supplement. All signs are to be in good condition with Type IV characters. Faded and deteriorated panels, as well as non-standard text will not be acceptable.

13. The contractor shall erect signs to provide proper horizontal and vertical clearances.

14. As per the MUTCD and NYS Supplement, the following stipulations shall apply unless otherwise specified by the Engineer:

    A. Where signs are shown in both diamond and rectangular shapes, only diamond shapes will be permitted, except in median applications where the rectangular signs will be used as specified by the Engineer.

    B. Where signs are shown in alternate sizes, the largest size must be used unless otherwise specified by the Engineer, or as shown on the plans.

15. In addition to the signing shown on the Basic Work Traffic Control plans, the Contractor shall also erect G11-1C, "road work, next ___ miles" signs. The Contractor shall also erect W8-1D, "road work ahead" signs at intersecting cross streets within the contract limits. Payment for these signs will be made under Item 619.xx.

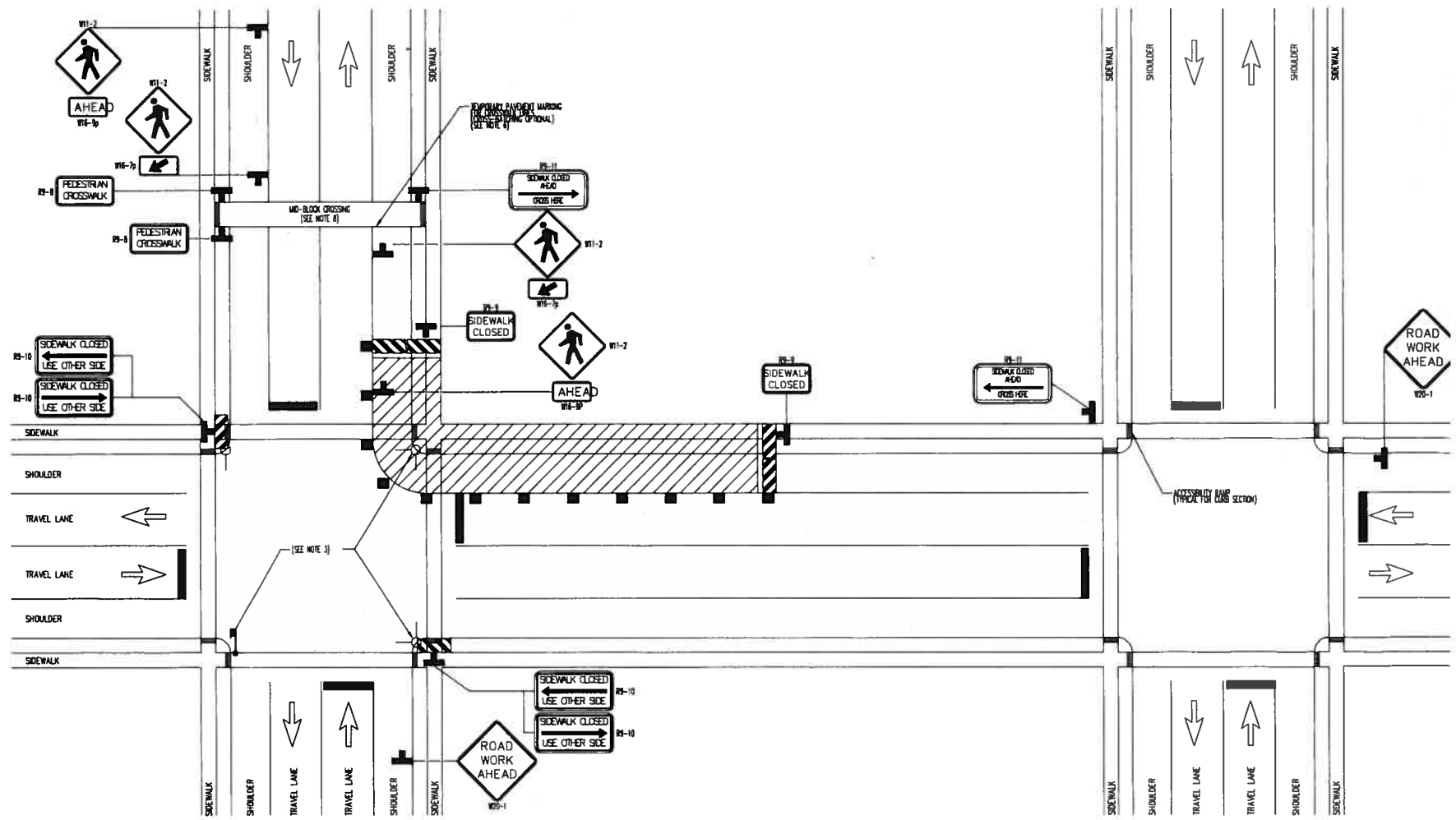
16. The contractor shall place W4-1 "bump" signs, W4-2 "dip" signs and/or W4-4 "rough road" signs where directed by the Engineer.

17. The Contractor's attention is directed to subsections 619-3.02H of the standard specifications. Existing traffic signs and construction signs within the work area which are no longer needed, even temporarily, or are conflicting, inappropriate or confusing, shall be removed (subject to the approval of the engineer) or shall be covered completely with an opaque material. the cost of this work shall be included in the price bid for the maintenance and protection of traffic item.

18. Type B - High Intensity, flashing lights are required on all W20 Advance Warning Signs.

NOTES:

1. WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING FACILITY.
2. CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50' IN ADVANCE OF THE MID-BLOCK CROSSWALK.
3. PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING CLOSED CROSSWALKS SHOULD BE COVERED OR DEACTIVATED
4. ONLY THE WORK ZONE TRAFFIC CONTROL DEVICES RELATED TO PEDESTRIANS ARE SHOWN. OTHER DEVICES, SUCH AS LANE CLOSURE SIGNING OR ROAD NARROWS SIGNS (W5-4), MAY BEUSED TO CONTROL VEHICULAR TRAFFIC.
5. FOR NIGHTTIME CLOSURES, FLASHING WARNING LIGHTS SHALL BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.
6. FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE TEMPORARY CROSSWALK LINES.
7. AREA SHALL BE RECONSTRUCTED TO BE ACCESSIBLE TO PEDESTRIANS.
8. ALL MID-BLOCK CROSSINGS REQUIRE THE APPROVAL OF THE REGIONAL DIRECTOROR HIS/HER DESIGNEE.
9. TYPE II BARRICADES MAY BE SUBSTITUTED FOR TYPE III BARRICADES AS PER 619 STANDARD SPECIFICATIONS.



CROSSWALK CLOSURE AND PEDESTRIAN DETOUR
SHORT, INTERMEDIATE, OR LONG TERM STATIONARY
CROSSWALK CLOSURE ON 2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

IN CHARGE OF A. VENTAROLA, P.E.
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR: NAME ___ SIGNATURE ___ TITLE ___ DATE ___
PROJECT COORDINATOR: NAME ___ SIGNATURE ___ TITLE ___ DATE ___

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

BASIC WORK TRAFFIC CONTROL PLANS I

CONTRACT NUMBER 16-526
SHEET NUMBER 5
SHEET NO. 5 OF 37
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-T-XX-0

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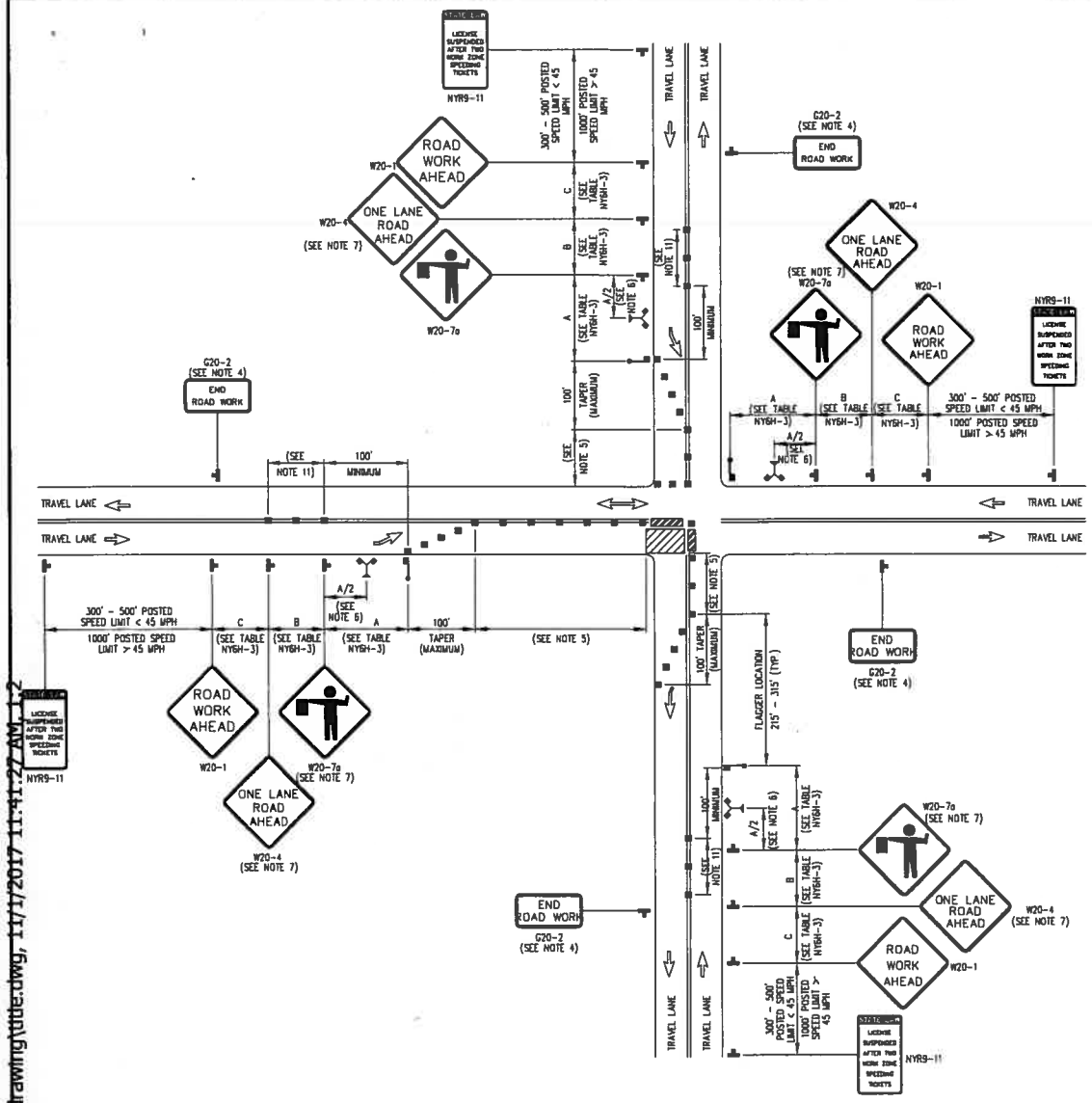
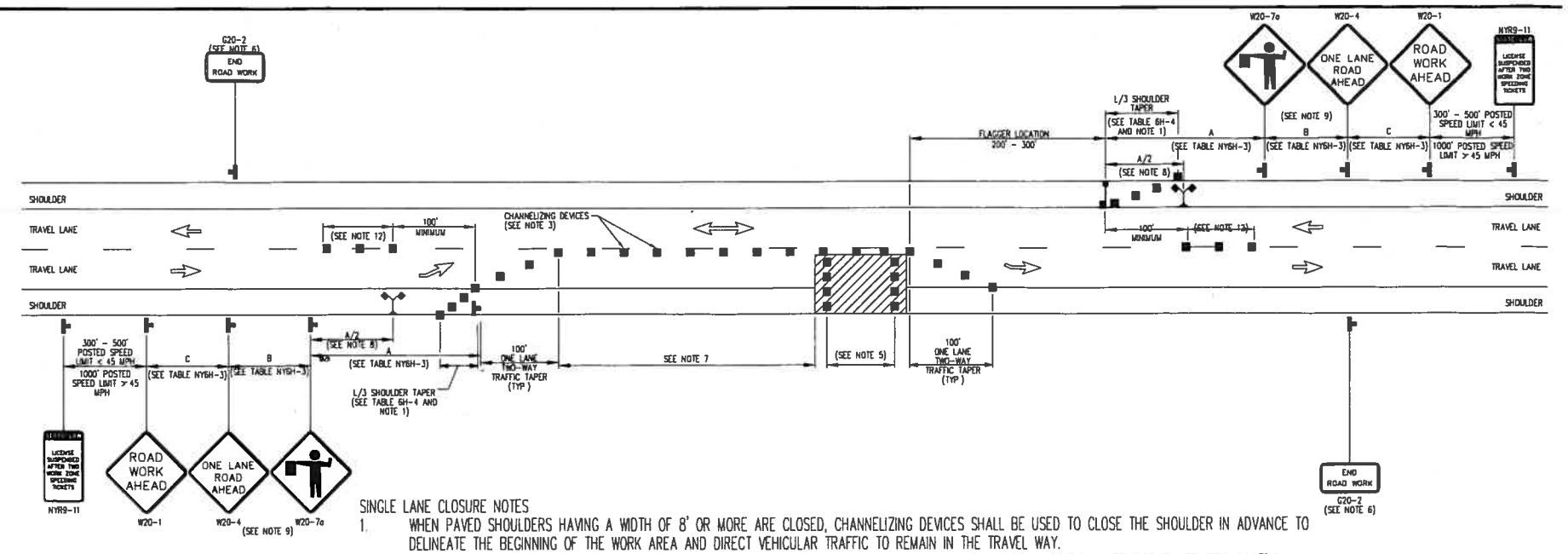


SINGLE LANE TRAFFIC
FLAGGING OPERATION*
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NYS DOT STANDARD SHEETS # 619.60



SINGLE LANE CLOSURE NOTES

1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORKSPACE.
3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
6. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM 500' PAST THE END OF THE WORK SPACE
7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IIN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY ½ THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
9. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20_4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
10. FLAGGER AND THE FLAG TREE SHALL BE ILLUMINATED TO THE LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
11. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING A 6' STAFF
12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST

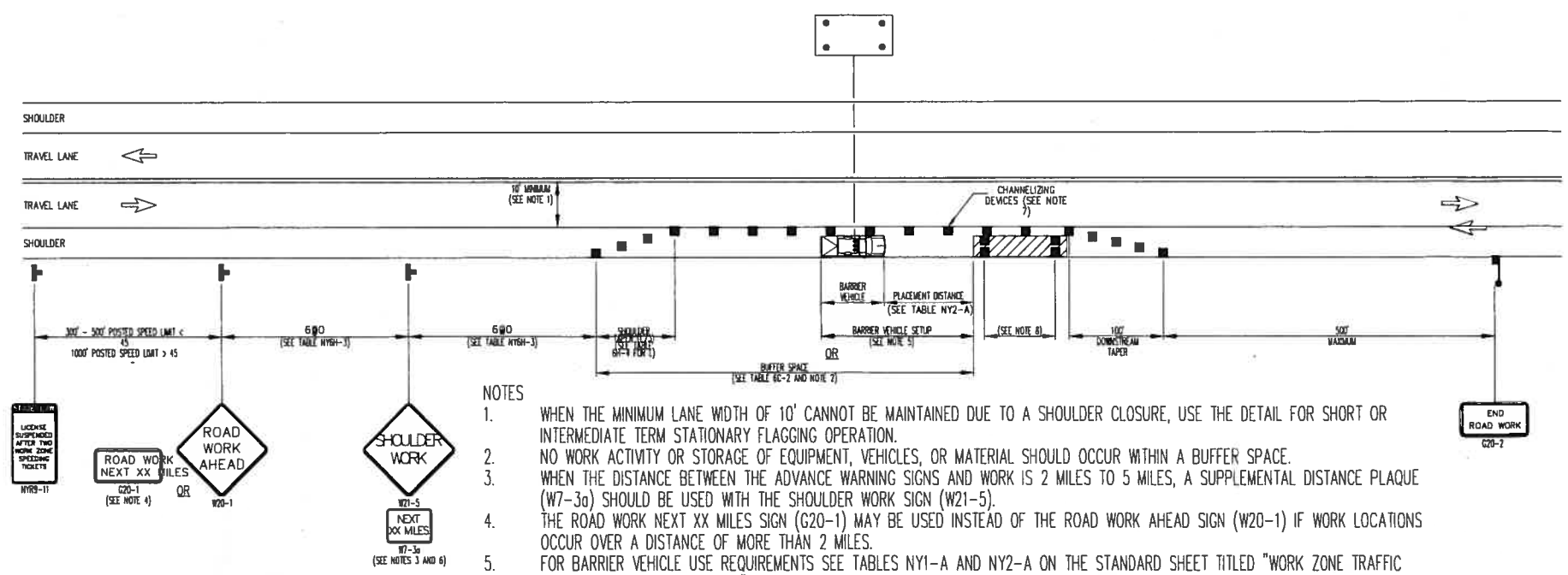
CONSTRUCTION WORK AND ROADWAY INTERSECTION NOTES

1. AT SIGNALIZED INTERSECTIONS, SIGNALS SHALL BE TURNED OFF FOR ANY FLAGGING OPERATIONS, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
2. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK ZONE
4. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE
5. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
6. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
7. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING
8. FLAGGER AND FLAG TREE SHALL BE ILLUMINAJED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS
9. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.
10. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK AREA
11. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.
12. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
13. FOR PEDESTRIAN DETOUR ACCOMMODATIONS REFER TO THE STANDARD SHEETS TITLED 'SIDEWALK DETOUR OR DIVERSION' AND CROSSWALK CLOSURE AND PEDESTRIAN DETOUR".

CONSTRUCTION WORK AT ROADWAY INTERSECTION

FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE AT OR NEAR INTERSECTION
(NOT TO SCALE)

NYS DOT STANDARD SHEETS 619.61



SHOULDER CLOSURE
SHORT OR INTERMEDIATE TERM STATIONARY
2-LANE 2-WAY ROADWAY
(NOT TO SCALE)

NOTES

1. WHEN THE MINIMUM LANE WIDTH OF 10' CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7-3a) SHOULD BE USED WITH THE SHOULDER WORK SIGN (W21-5).
4. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
6. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.
7. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

IN CHARGE OF A. VENTAROLA, P.E.
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
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CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

BASIC WORK TRAFFIC CONTROL PLANS II

CONTRACT NUMBER 16-526
SHEET NUMBER 6
SHEET NO. 6 OF 37
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO XX-XX-T-XX-0

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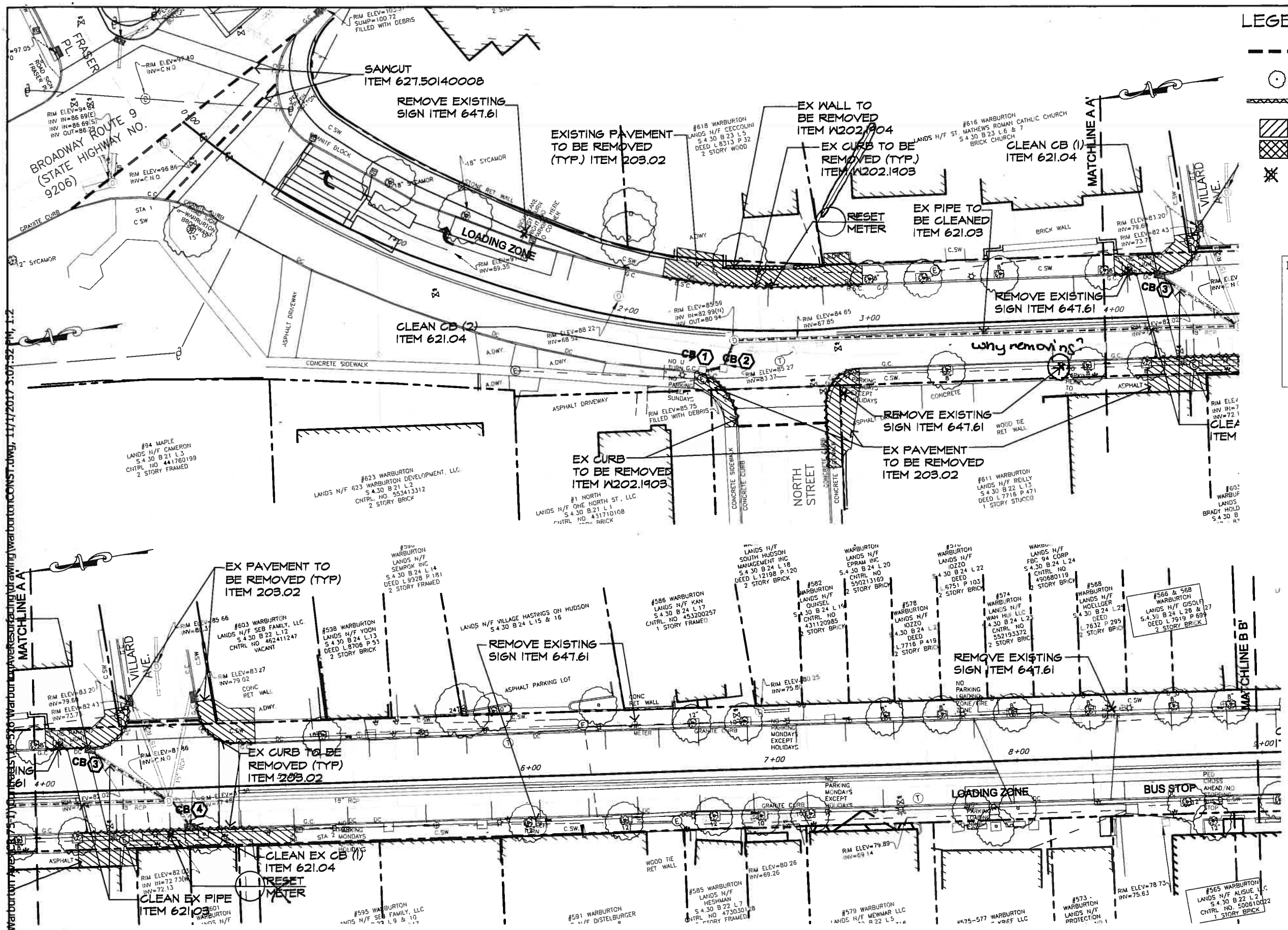


LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT) 6/40
- EXISTING TREE TO REMAIN
- EXISTING CURB, WALL, OR FENCE TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY ITEM 203.02
- CLEAR & GRUB ITEM 201.06
- REMOVE/RESET EXISTING SITE FEATURE

EXISTING FEATURE

	Unknown Manhole		Light Pole
	Sewer Manhole		Gas Valve
	Drain Manhole		Water Valve
	Electric Manhole		Water Meter
	Telephone Manhole		Hydrant
	Guy Pole		Sign
	Utility Pole		Traffic Box
	Catch Basin		Parking Meter

SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'-0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, Item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, Item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, Item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

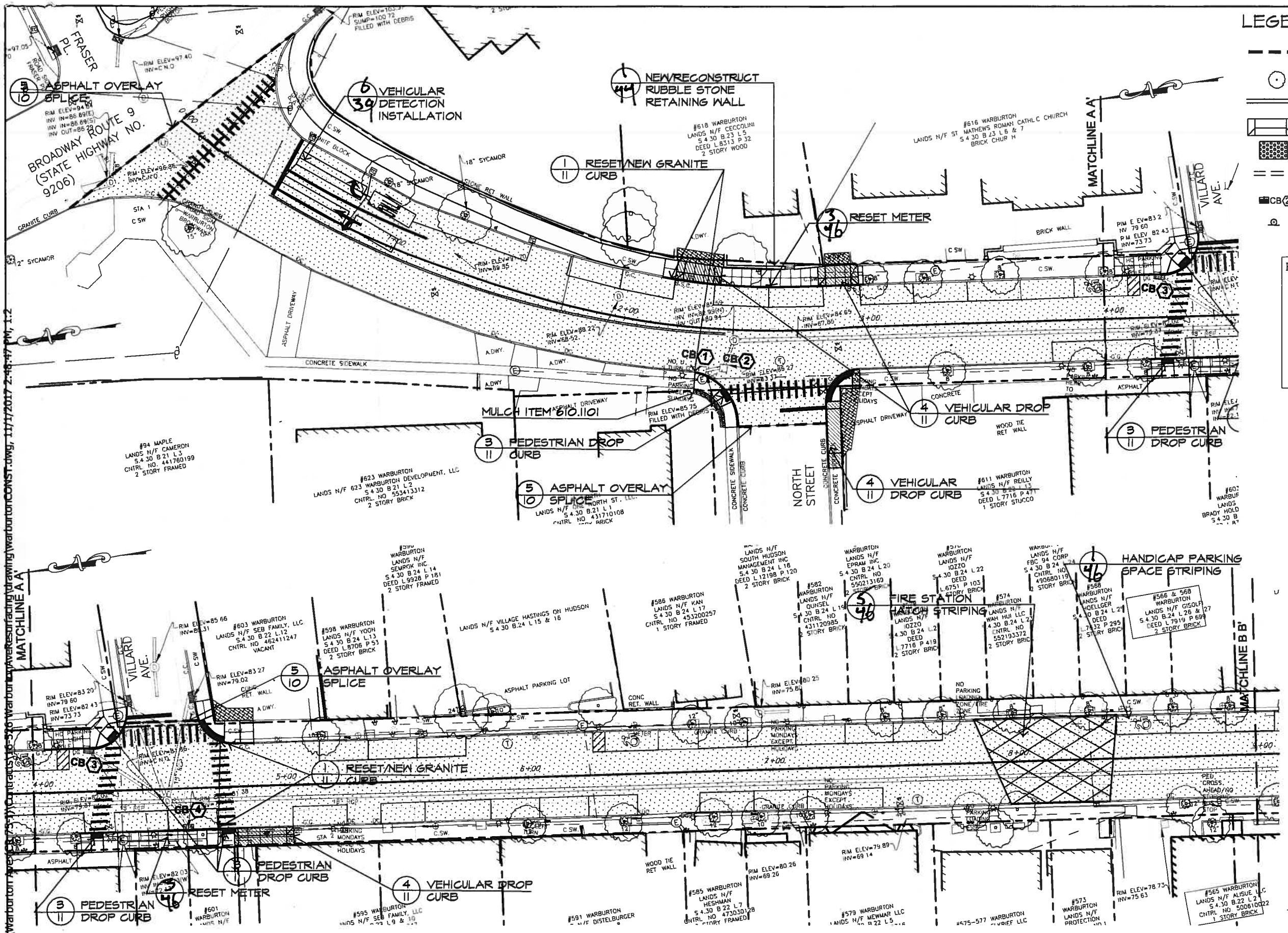
SITE PREPARATION & REMOVALS PLAN

AREA A

CONTRACT NUMBER	SHEET NUMBER
16-526	7

SHEET NO. 7 OF 4
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO.
XX–XX–X–XX–O

X:\HIGHWAYS\ROADS\Warburton\Plans\16-526 Warburton Avenue Resurfacing\drawing\warburtonCONST.dwg, 11/1/2017 3:07:52 PM, 1:2



LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT) 6/10
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB 1/11
- PROPOSED VEHICULAR DRIVEWAY APRON 4/11
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- SIGN
- ASPHALT - MILL & PAVE 1/10
- ASPHALT DRIVEWAY REPAIR 4/10
- LAWN RESTORATION 3/10
- CONCRETE SIDEWALK 2/11
- CONCRETE DRIVEWAY 4/11

EXISTING FEATURE

	Unknown Manhole		Light Pole
	Sewer Manhole		Gas Valve
	Drain Manhole		Water Valve
	Electric Manhole		Water Meter
	Telephone Manhole		Hydrant
	Guy Pole		Sign
	Utility Pole		Traffic Box
	Catch Basin		Parking Meter

MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces are to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can caus stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfaction of the construction administrator.
4) The contractor shall exercise care during excavation to avoid disturbing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contractor's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believe to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out b the contractor for their approval prior to allowing the contractor proceed wit construction. The engineer and/or construction administrator reserve the righ to make minor modifications to the design ,or layout of the work as needed.

AREA A

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

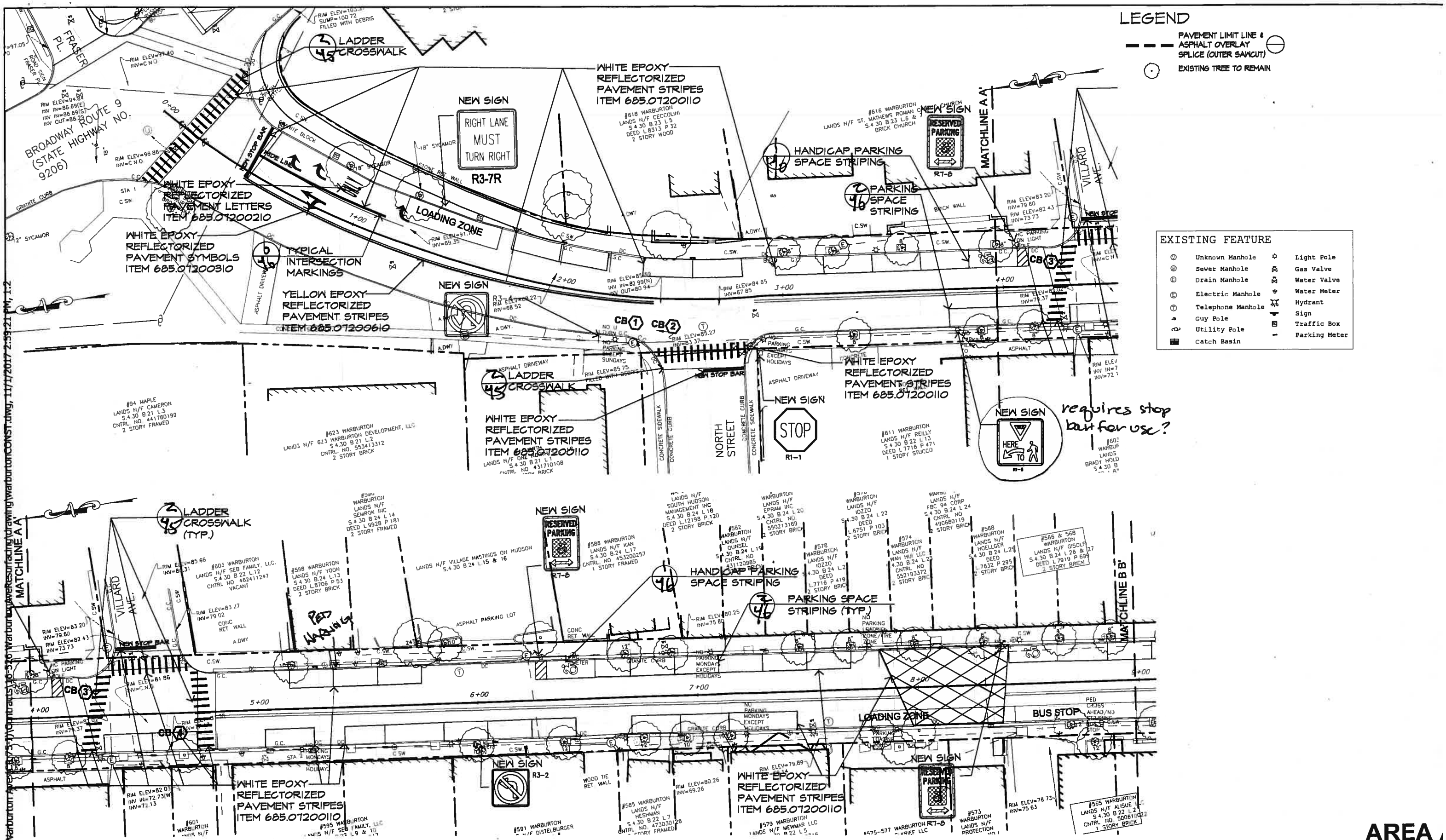
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

CONTRACT NUMBER	SHEET NUMBER
16-526	8

SHEET NO. 8 OF 4
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO.
XX–XX–X–XX–O



AREA A

GRAPHIC SCALE

0 20 30 40 50 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
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TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

CONTRACT NUMBER	SHEET NUMBE
16-526	9

SHEET NO. 9 OF 4

SCALE: 1" = 20'-0

DATE: 11/1/2017

DPW FILE NO.

XX–XX–X–XX–O

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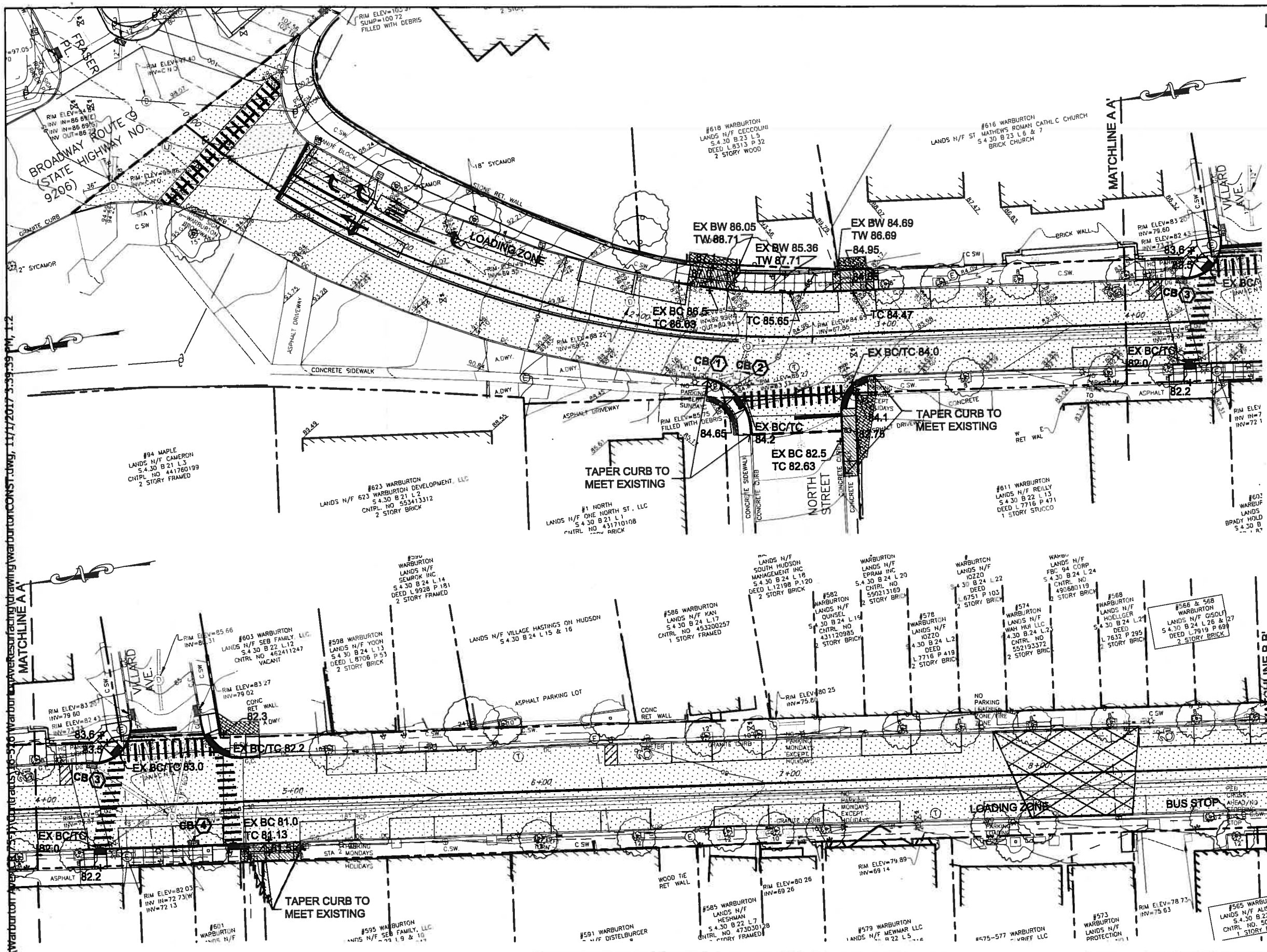


LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- SIGN
- 82 PROPOSED CONTOURS
- + 82 PROPOSED SPOT ELEVATION

- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

EXISTING FEATURE

	Unknown Manhole		Light Pole
	Sewer Manhole		Gas Valve
	Drain Manhole		Water Valve
	Electric Manhole		Water Meter
	Telephone Manhole		Hydrant
	Guy Pole		Sign
	Utility Pole		Traffic Box
	Catch Basin		Parking Meter

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contractor shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.

2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.

3) All finished surfaces shall be true to grade and even, free of roller marks and free of low spots where water will puddle. The contractor shall perform a water test on the finished surfaces by applying sufficient water on all new surfaces to test the drainage patterns, as directed by the construction administrator.

4) The contractor shall prevent against low spots where water can collect, as well as any possible re-direction of runoff onto private property and shall take whatever corrective measures are necessary. The contractor shall be responsible to correct any deleterious water ponding areas at no expense to the County.

5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.

6) The contractor shall keep all roadways and access drives used for hauling of materials and equipment free from soil and debris. The contractor shall be responsible for any damage and/or spills caused by his operations and shall be required to make repairs and/or cleanup debris including but not limited to street sweeping at no expense to the County.

7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.

8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.

9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

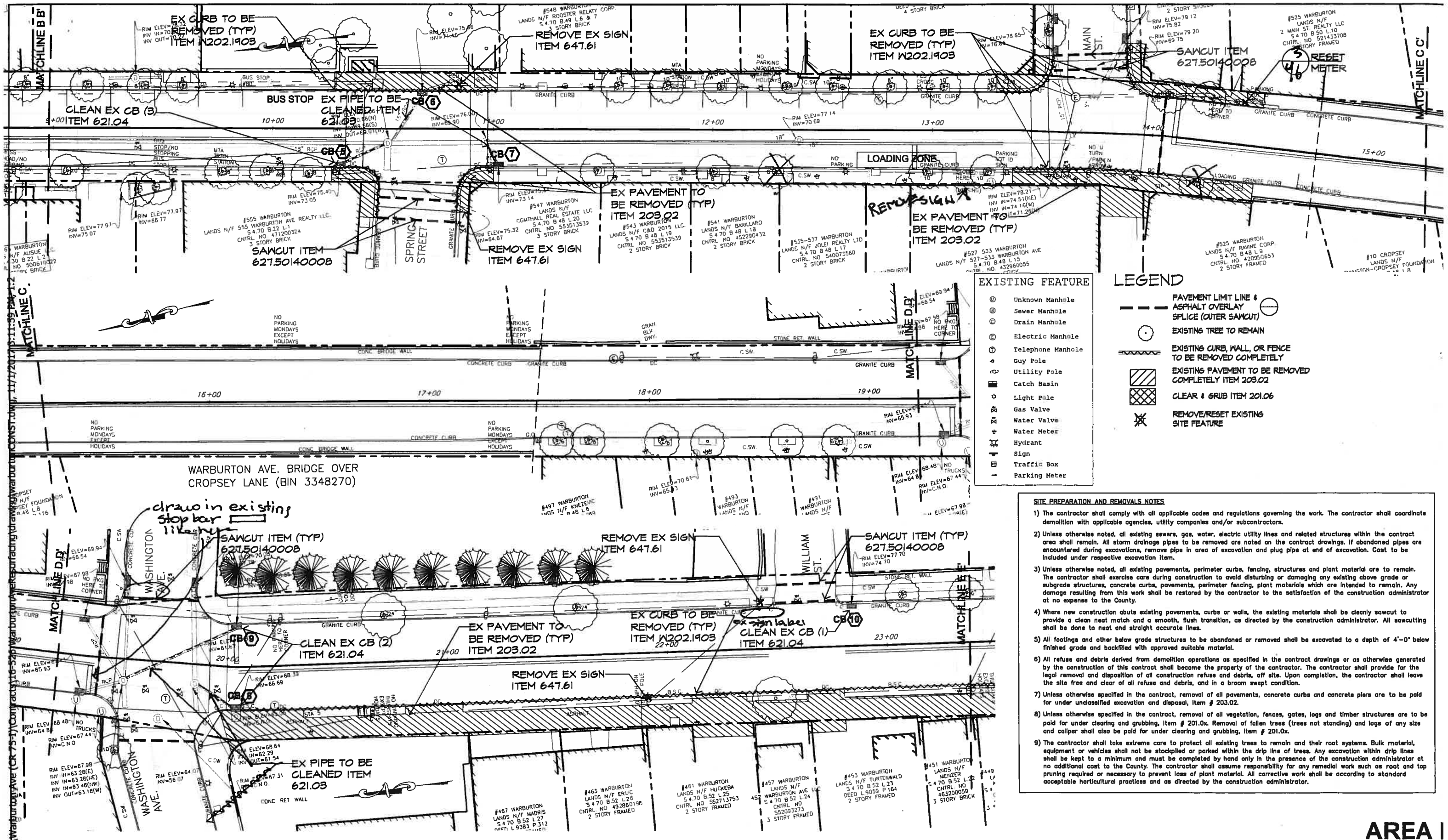
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 10
SHEET NO. 10 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

AREA A

X:\HIGHWAYS\ROADS\Warburton Ave (C.R. 751)\Plans\Grading\16-526 Warburton Ave Resurfacing\drawing\warburtonCONST.dwg, 11/17/2017 5:38:39 PM



SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'-0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, Item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, Item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, Item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

AREA I

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
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TITLE DATE

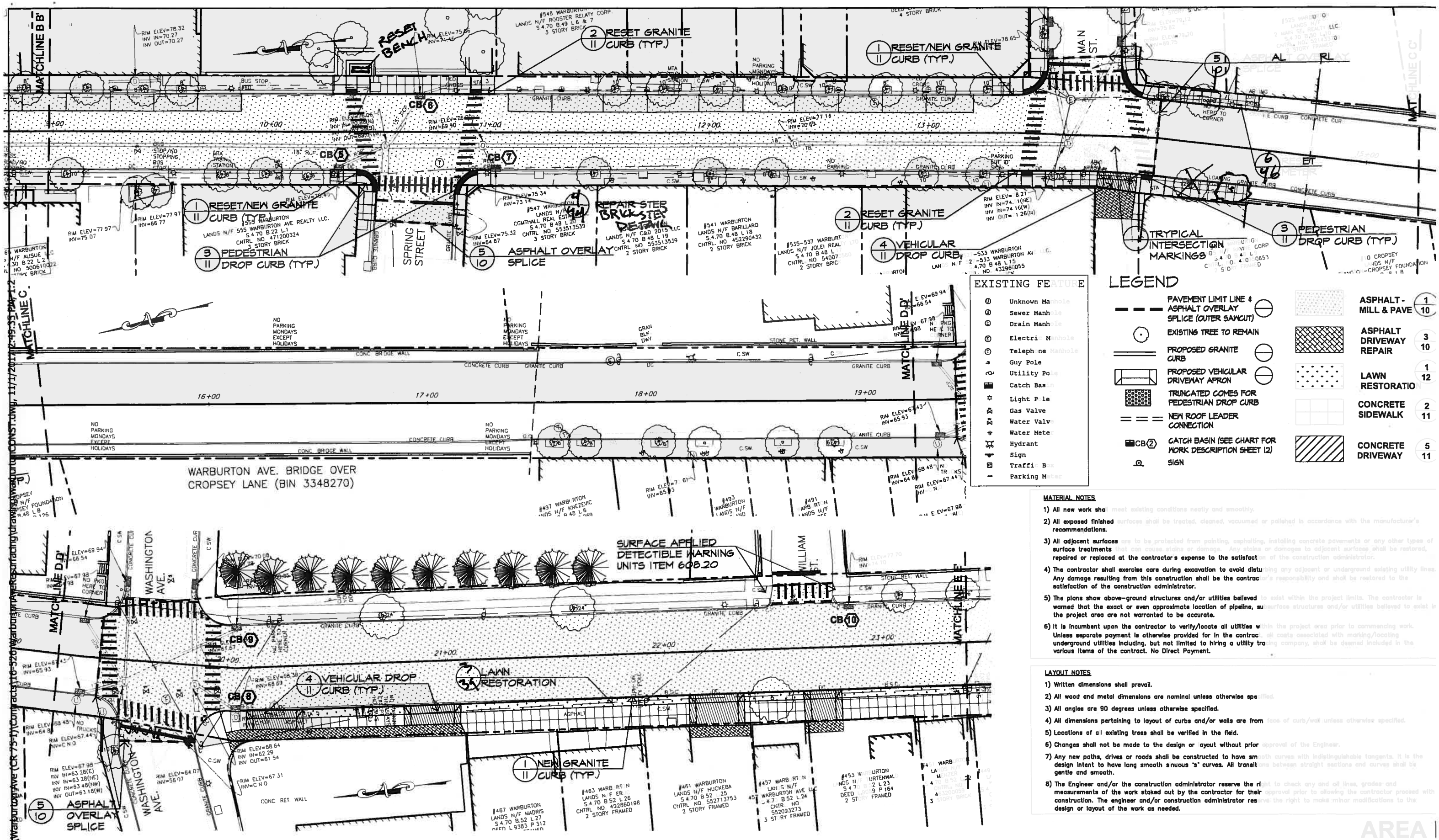
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SITE PREPARATION & REMOVALS PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 11
SHEET NO. 11 OF 4
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O



MATERIAL NOTES

1) All new work sha meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces re to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can cause stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfact of the construction administrator.
4) The contractor shall exercise care during excavation to avoid distu ing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contrac r's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, su surface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities w within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contrac ll costs associated with marking/locating underground utilities including, but not limited to hiring a utility tra ing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise spe fied.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of al existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have sm oth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transit ns between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the ri ht to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator res ve the right to make minor modifications to the design or layout of the work as needed.

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

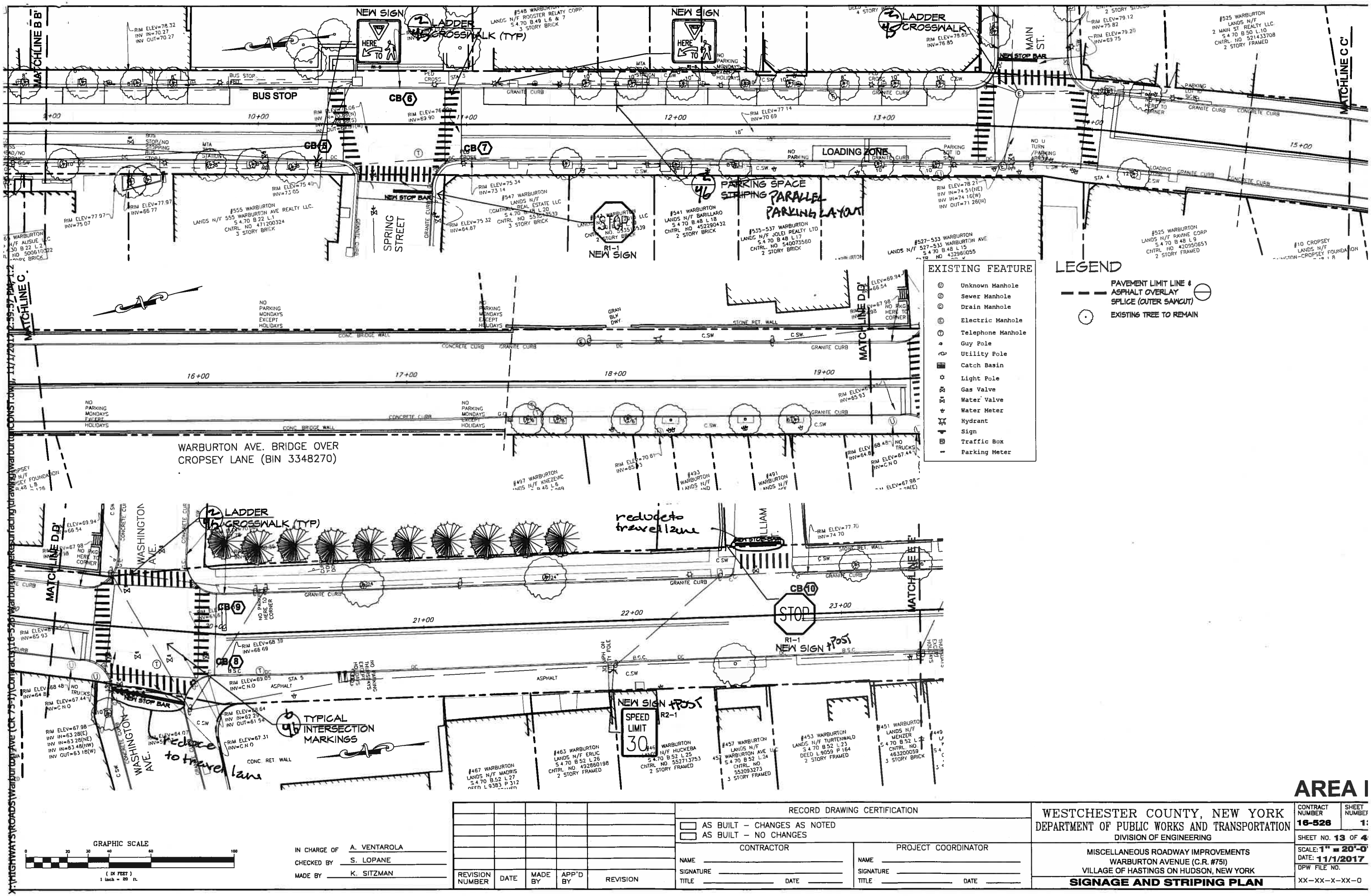
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 12
SHEET NO. 12 OF 4
SCALE 1" = 20'-0"
DATE 11/1/2017
DPW FILE NO. XX-XX-X-XX-0



LEGEND

PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)

EXISTING TREE TO REMAIN

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

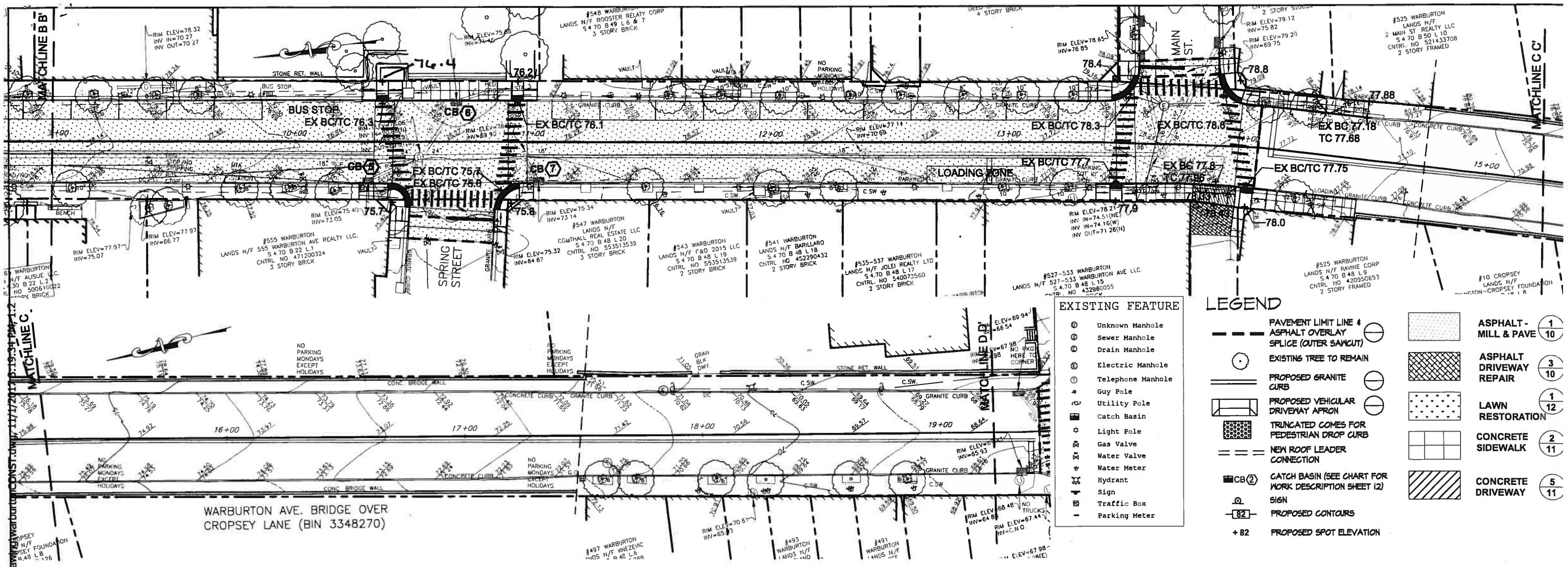
SIGNAGE AND STRIPING PLAN

AREA I

CONTRACT NUMBER	SHEET NUMBER
16-526	13

SHEET NO. 13 OF 4

SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O



EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- TRUNCATED CONES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- SIGN
- 82 PROPOSED CONTOURS
- + 82 PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contracto shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.
2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.
3) All finished surfaces shall be true to grade and even, free of roller marks and free of low spots where water will puddle. Th contractor shall perform a water test on the finished surfaces by applying sufficient water on all new surfaces to test the drainage patterns, as directed by the construction administrator.
4) The contractor shall prevent against low spots where water can collect, as well as any possible re-direction of runoff onto private property and shall take whatever corrective measures are necessary. The contractor shall be responsible to correct any deleterious water ponding areas at no expense to the County.
5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.
6) The contractor shall keep all roadways and access drives used for hauling of materials and equipment free from soil and debris. The contractor shall be responsible for any damage and/or spills caused by his operations and shall be required to make repairs and/or cleanup debris including but not limited to street sweeping at no expense to the County.
7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.
8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.
9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

AREA I

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

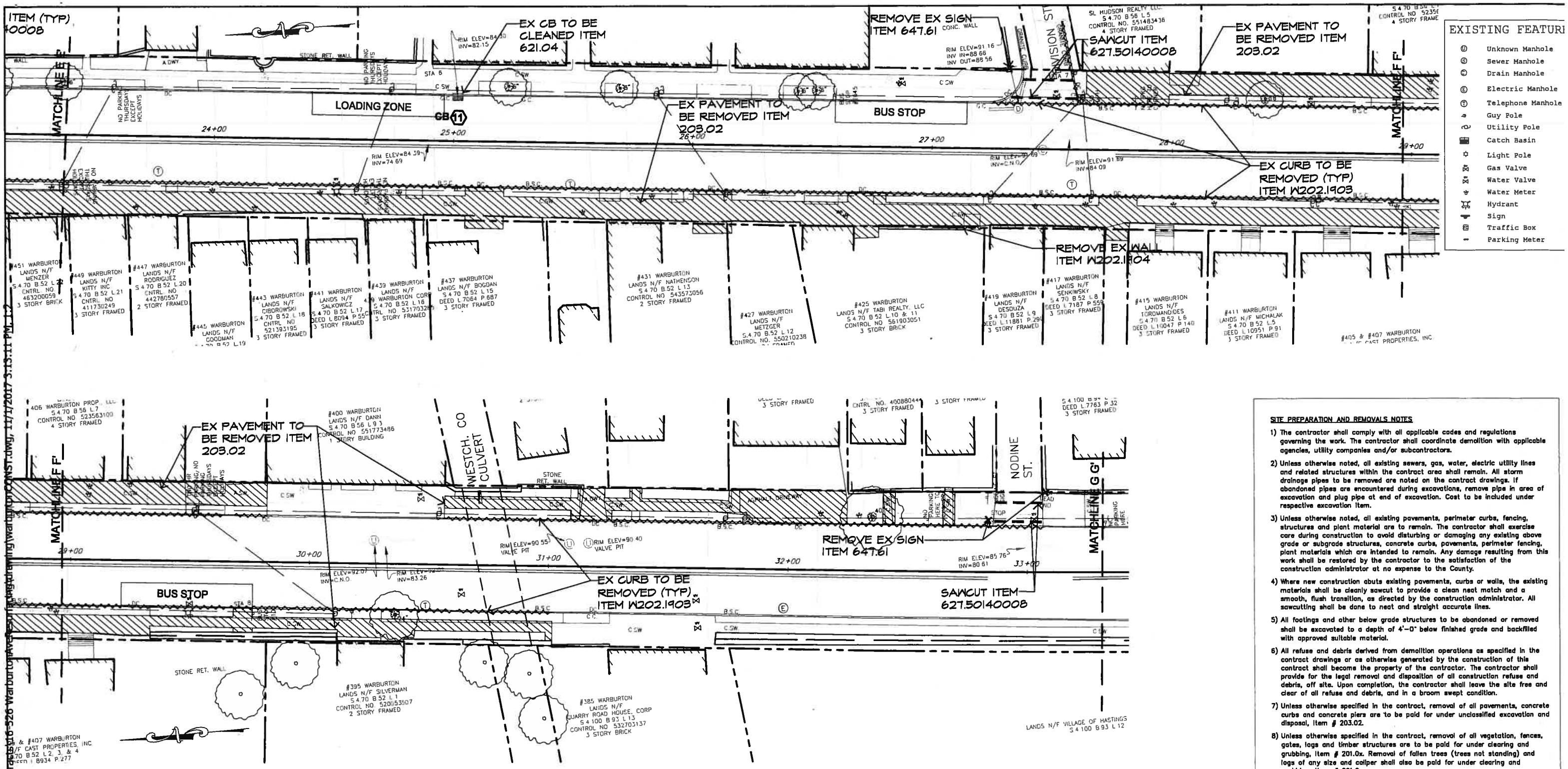
PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 14
SHEET NO. 14 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O



EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- EXISTING CURB TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY
- CLEAR & GRUB ITEM 201.06
- REMOVE EXISTING SITE FEATURE

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'-0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

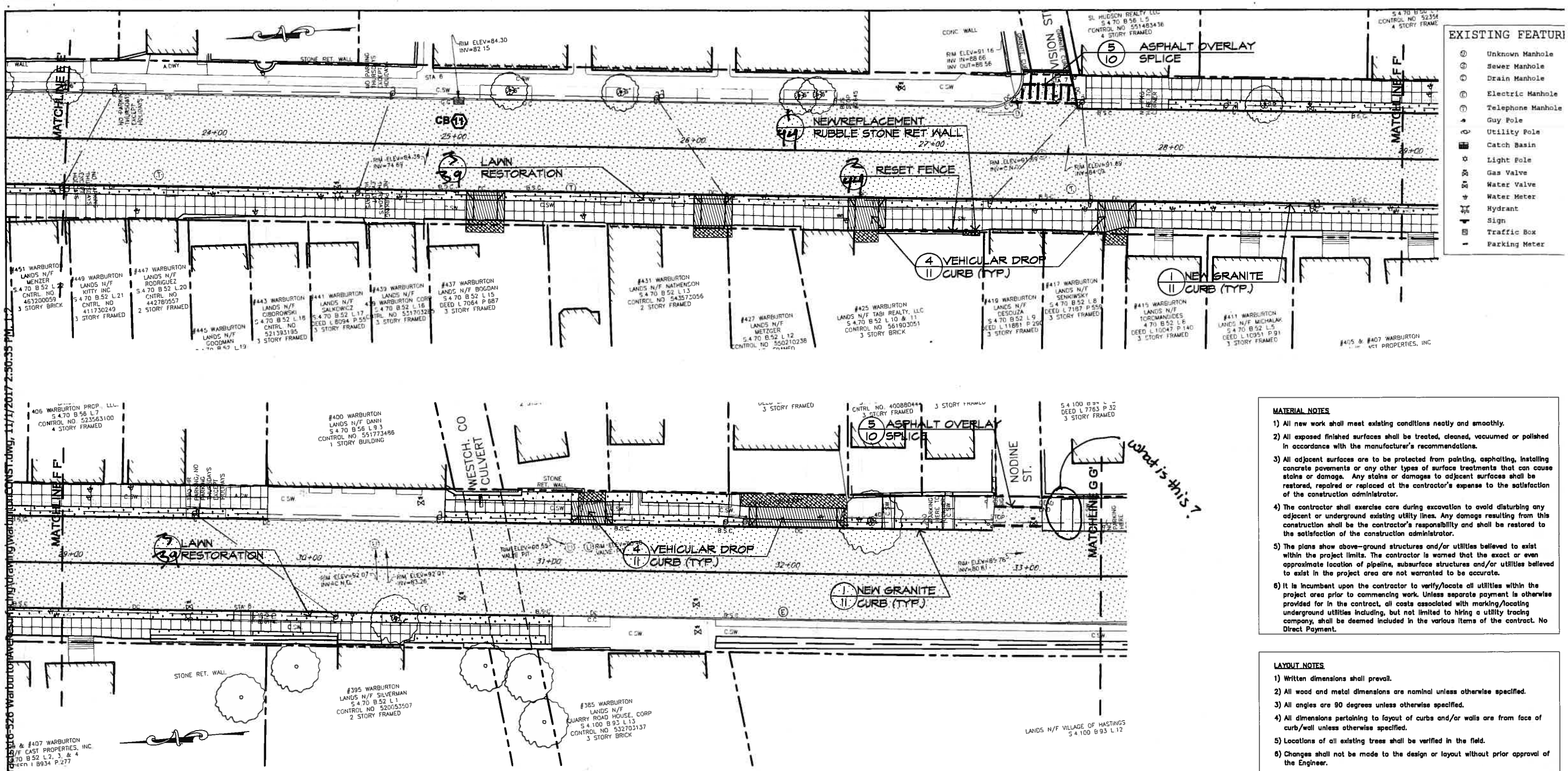
SITE PREPARATION & REMOVALS PLAN

AREA (

CONTRACT NUMBER	SHEET NUMBER
16-526	15

SHEET NO. 15 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO.
XX–XX–X–XX–O

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave Improvements\Drawing\Warburton Ave CONST.dwg, 11/1/2017 3:15:11 PM, 1:2



EXISTING FEATURES

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces are to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can cause stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfaction of the construction administrator.
4) The contractor shall exercise care during excavation to avoid disturbing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contractor's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator reserve the right to make minor modifications to the design or layout of the work as needed.

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB 2 — CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- ASPHALT - MILL & PAVE 1/10
- ASPHALT DRIVEWAY REPAIR 3/10
- LAWN RESTORATION 1/12
- CONCRETE SIDEWALK 2/11
- CONCRETE DRIVEWAY 5/11

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

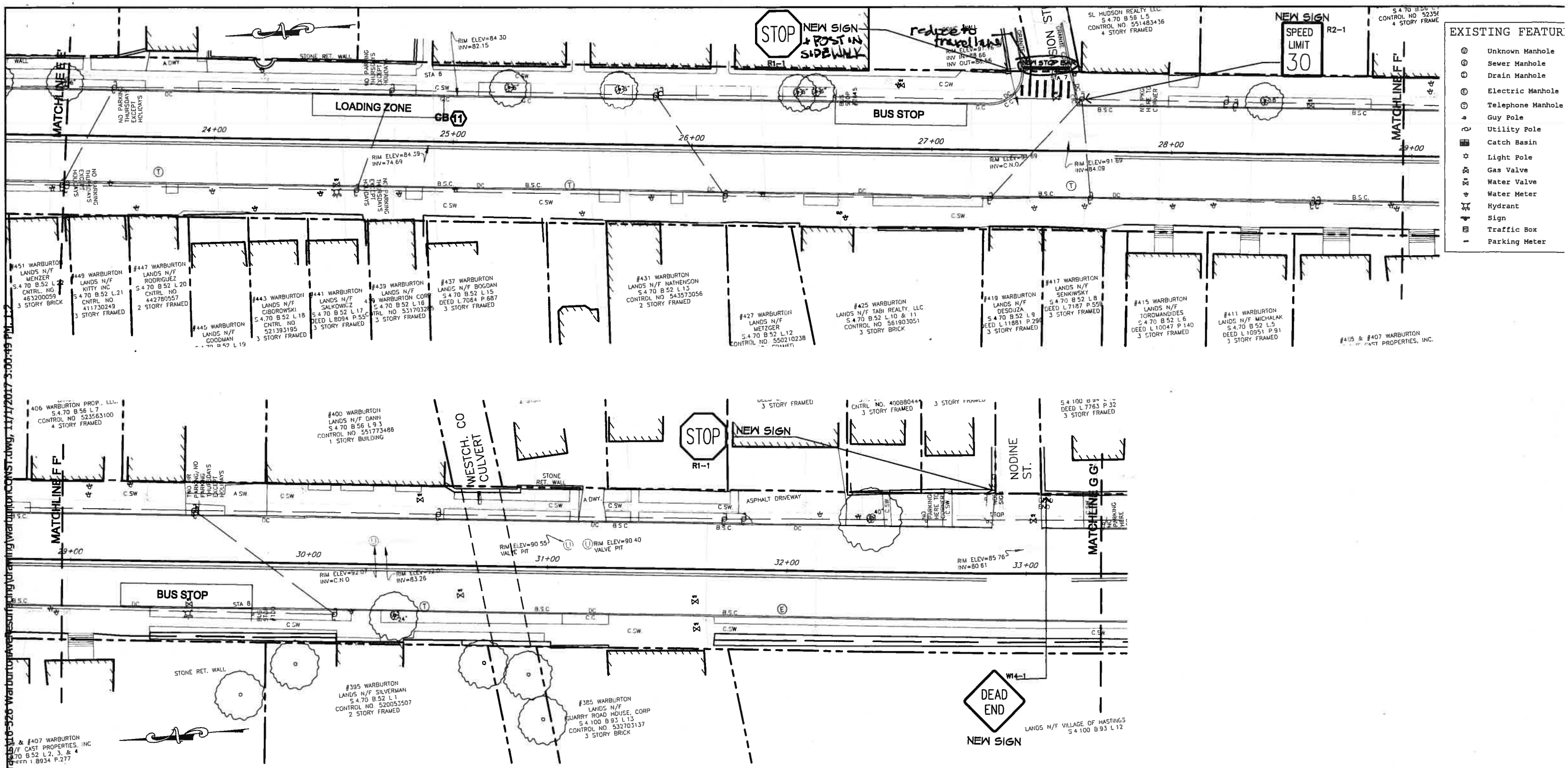
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 16
SHEET NO. 16 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

AREA (

X:\HIGHWAYS\ROADS\Warburton Ave (CR 751)\Contract 16-526 Warburton Avenue Resurfacing\drawing\warburtonCONST.dwg, 11/1/2017 2:30:35 PM, LT2



IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

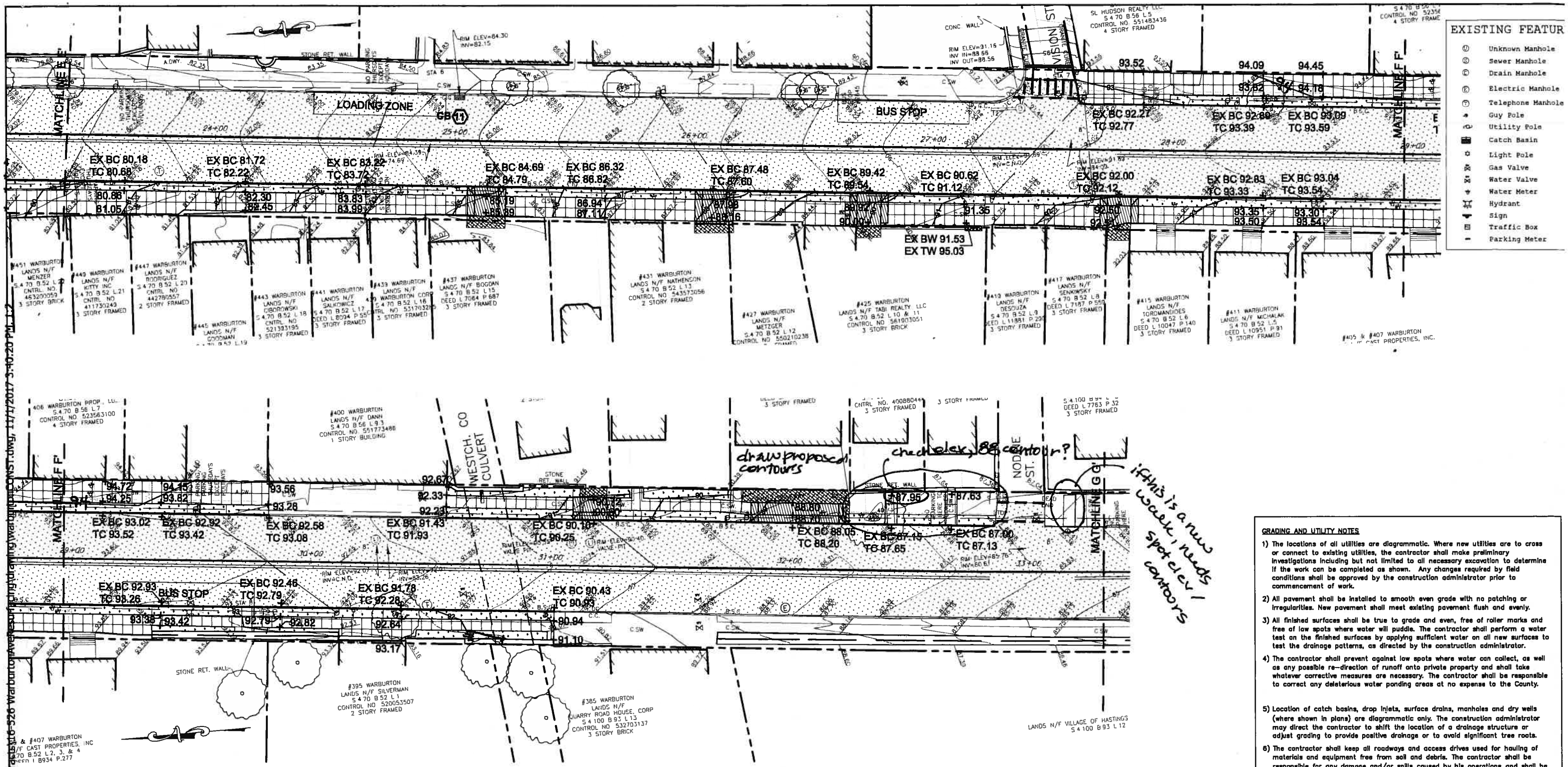
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

AREA (

CONTRACT NUMBER 16-526
SHEET NUMBER 17
SHEET NO. 17 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-I)\Contracts\16-526 Warburton Ave Resurfacing\drawing\warburtonAve_resurfacing_CONST.dwg, 11/1/2017 3:00:49 PM, 1:2



GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contractor shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.

2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.

3) All finished surfaces shall be true to grade and even, free of roller marks and free of low spots where water will puddle. The contractor shall perform a water test on the finished surfaces by applying sufficient water on all new surfaces to test the drainage patterns, as directed by the construction administrator.

4) The contractor shall prevent against low spots where water can collect, as well as any possible re-direction of runoff onto private property and shall take whatever corrective measures are necessary. The contractor shall be responsible to correct any deleterious water ponding areas at no expense to the County.

5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.

6) The contractor shall keep all roadways and access drives used for hauling of materials and equipment free from soil and debris. The contractor shall be responsible for any damage and/or spills caused by his operations and shall be required to make repairs and/or cleanup debris including but not limited to street sweeping at no expense to the County.

7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.

8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.

9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED CONES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- 82 PROPOSED CONTOURS
- + 82 PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

AREA (

CONTRACT NUMBER 16-526
SHEET NUMBE 18
SHEET NO. 18 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

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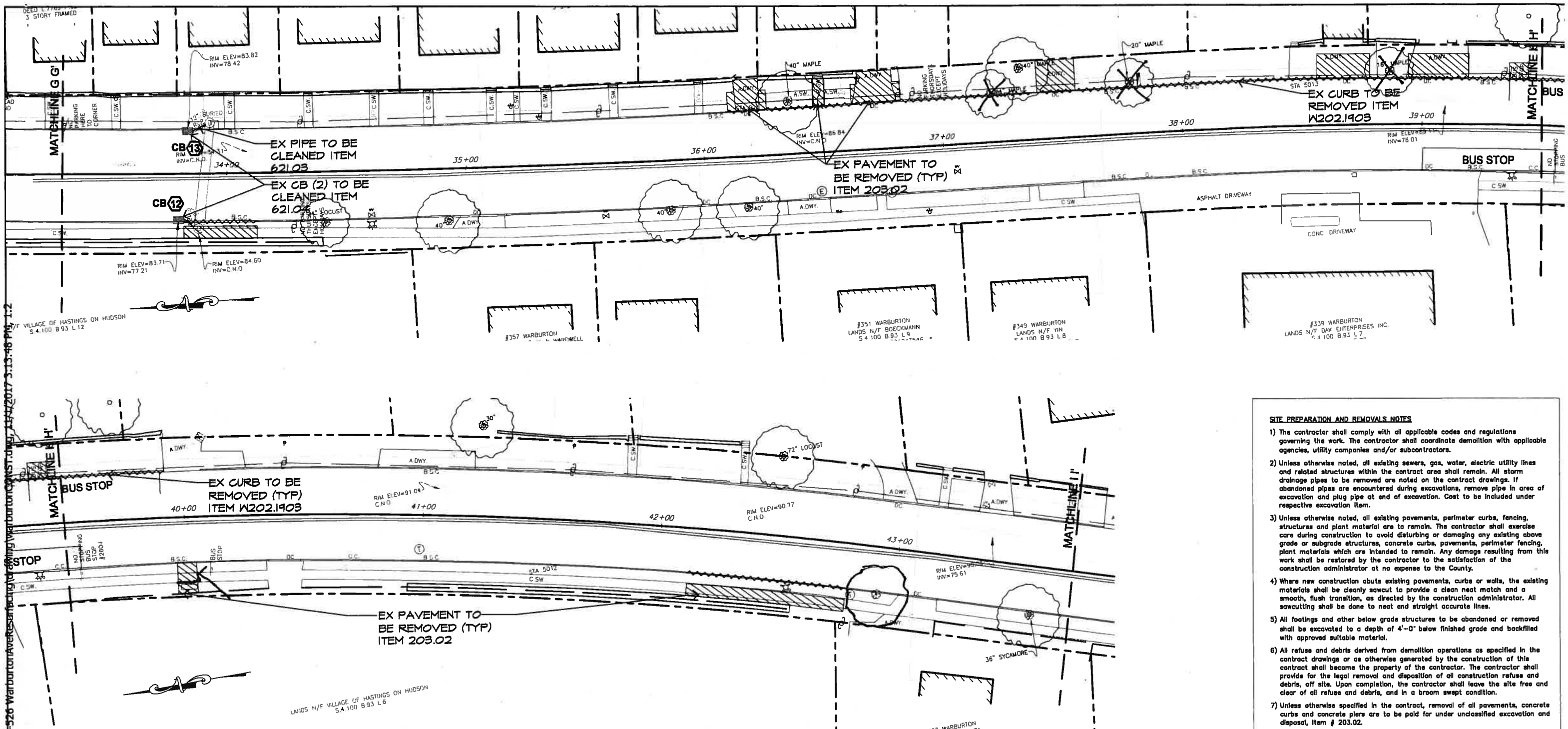

SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

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6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, Item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, Item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, Item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- EXISTING CURB TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY
- CLEAR & GRUB ITEM 201.06
- REMOVE EXISTING SITE FEATURE

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SITE PREPARATION & REMOVALS PLAN

AREA I

CONTRACT NUMBER 16-526
SHEET NUMBER 19
SHEET NO. 19 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX–XX–X–XX–0

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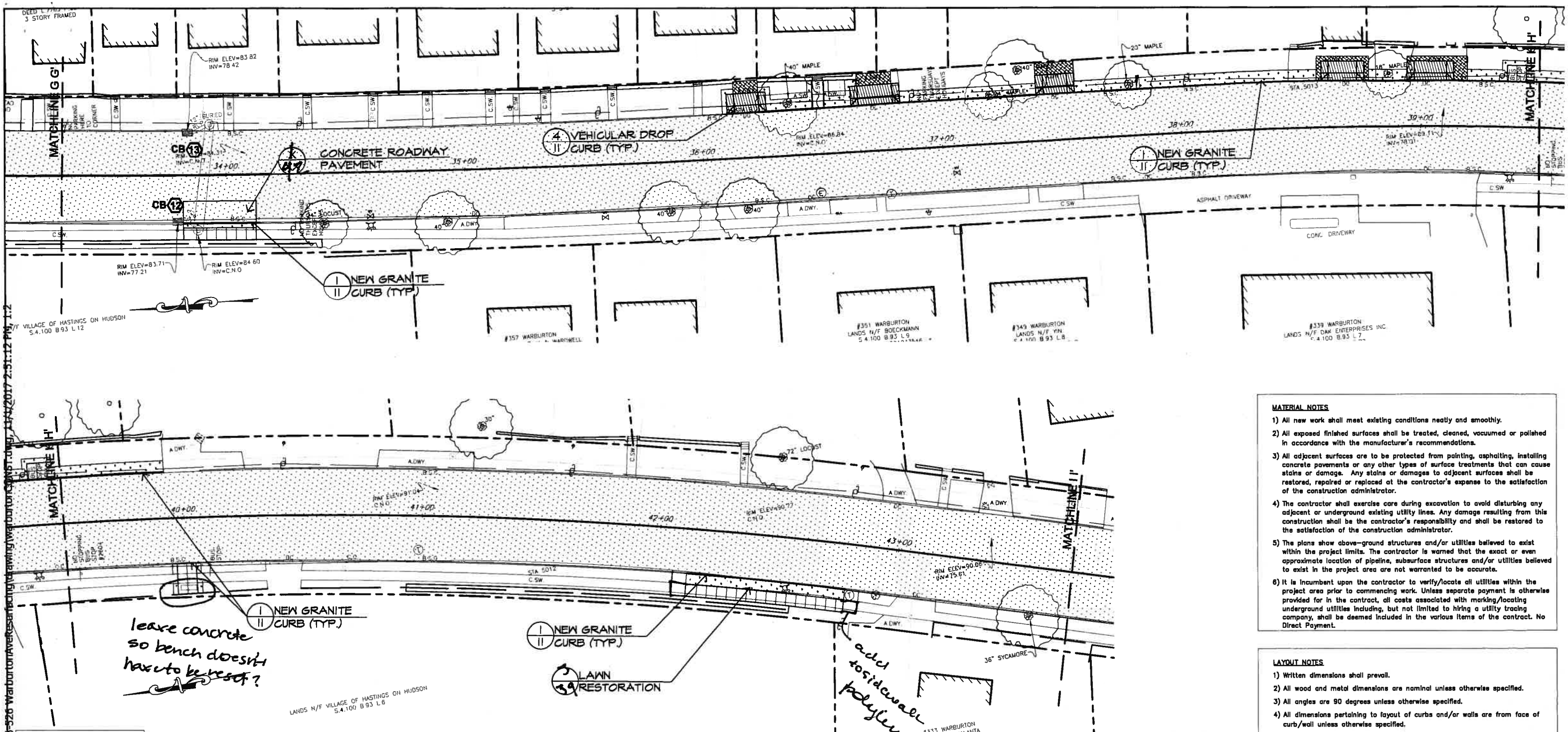

MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces are to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can cause stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfaction of the construction administrator.
4) The contractor shall exercise care during excavation to avoid disturbing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contractor's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator reserve the right to make minor modifications to the design or layout of the work as needed.

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

AREA I

CONTRACT NUMBER	SHEET NUMBER
16-526	20

SHEET NO. 20 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

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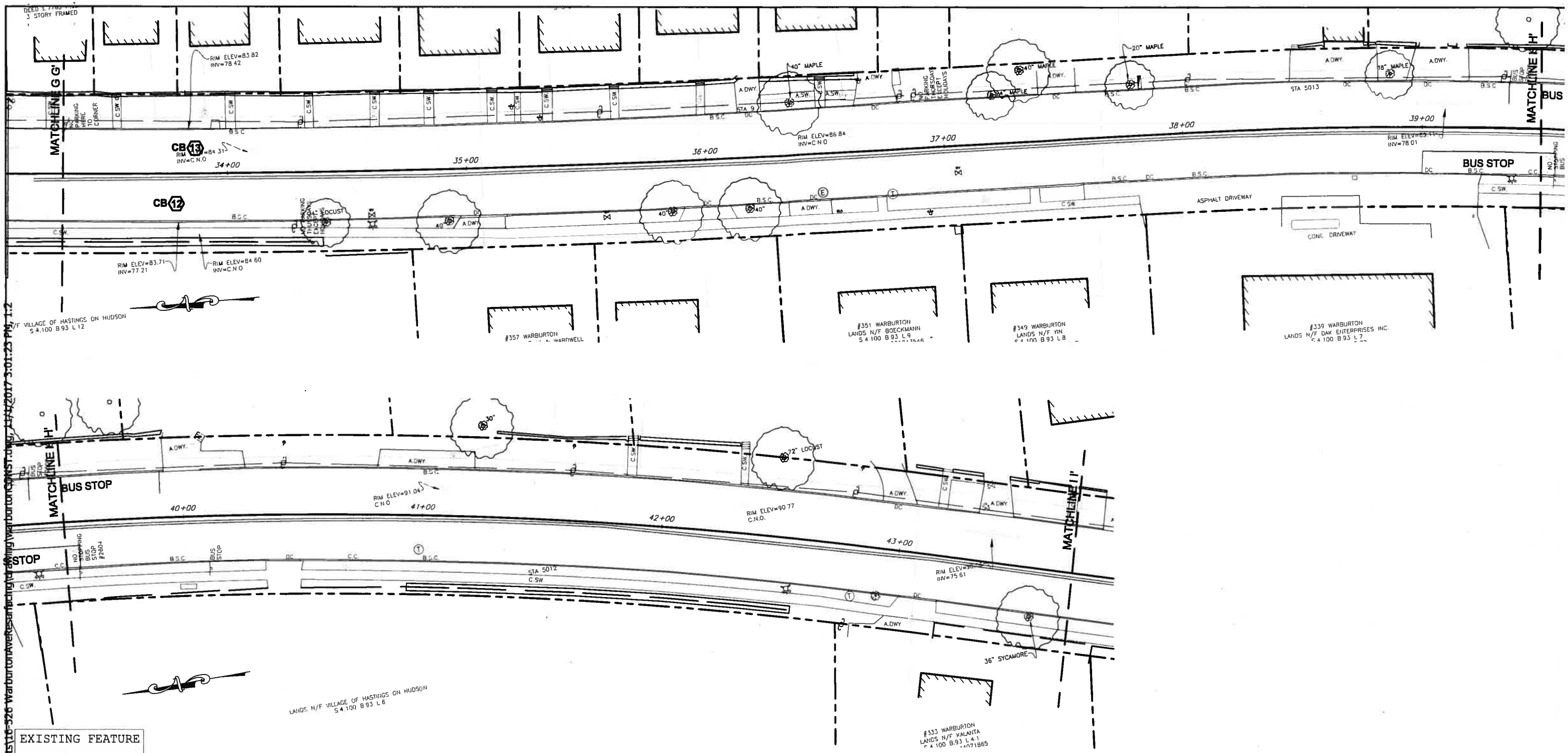

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
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- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

AREA I

CONTRACT NUMBER	SHEET NUMBER
16-526	21

SHEET NO. 21 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO.
XX–XX–X–XX–O

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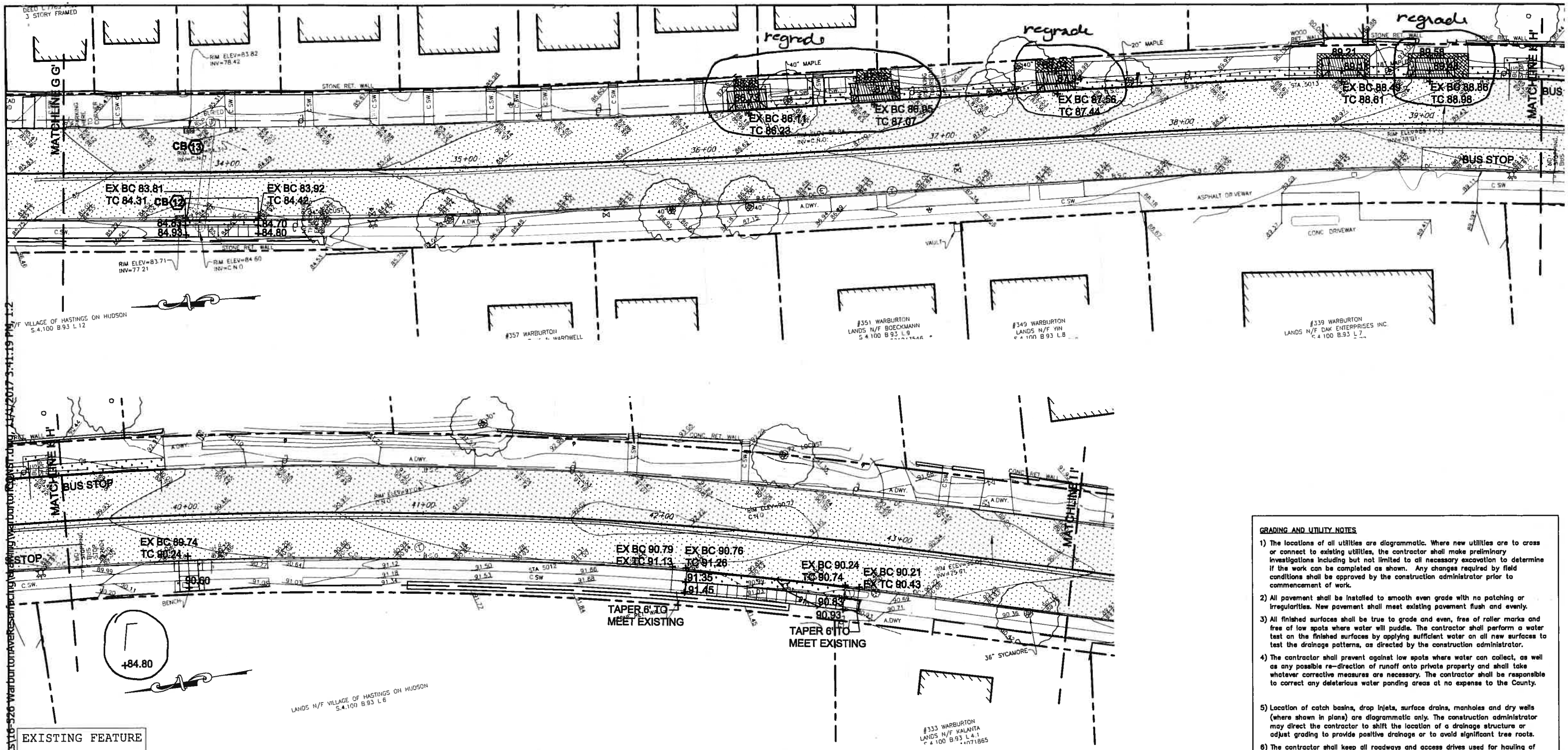

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contractor shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.

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7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.

8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.

9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
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- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- 82 PROPOSED CONTOURS
- + 82 PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

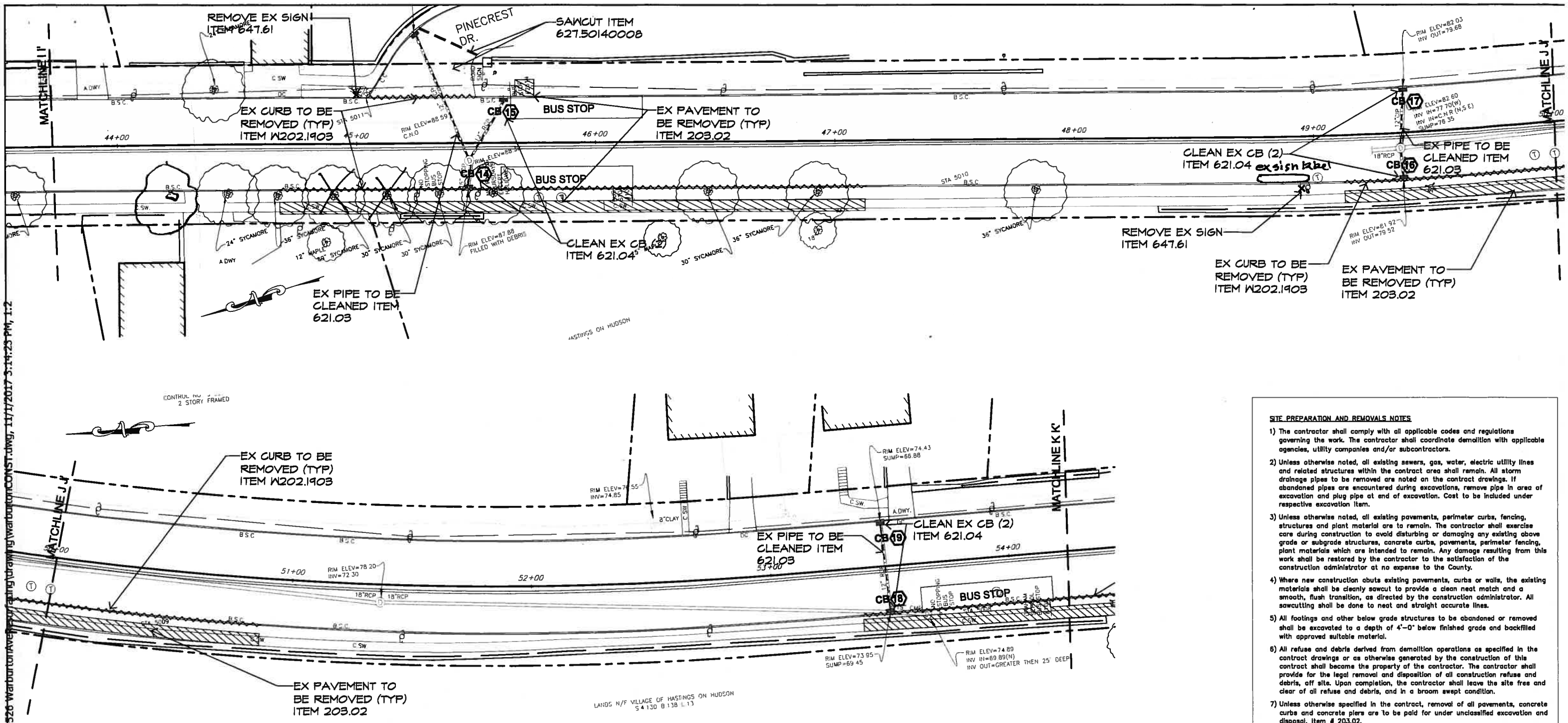
AREA I

CONTRACT NUMBER	SHEET NUMBER
16-526	22

SHEET NO. 22 OF 4

SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO.
XX-XX-X-XX-O

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-I)\Contracts\16-526 Warburton Ave Resanfacing (Hastings)\Warburton Const. Dwg, 11/1/2017 3:41:19 PM, 1:2



EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- EXISTING CURB TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY
- CLEAR & GRUB ITEM 201.06
- REMOVE EXISTING SITE FEATURE

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'–0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, Item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, Item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, Item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

AREA I

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

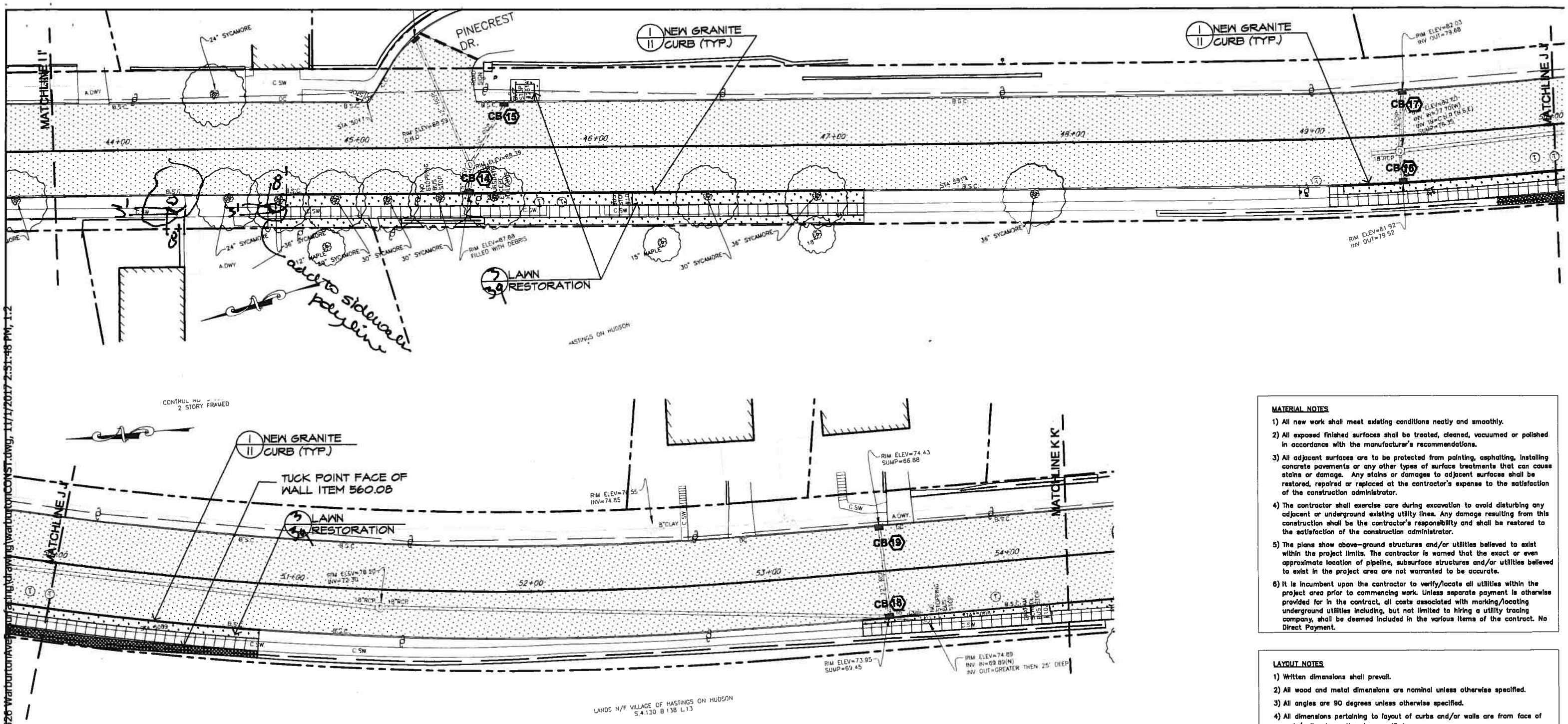
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SITE PREPARATION & REMOVALS PLAN

CONTRACT NUMBER	SHEET NUMBER
16-526	23

SHEET NO. 23 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO.
XX–XX–X–XX–O

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave\Drafting\Drawing\warburtonCONST.dwg, 11/1/2017 3:14:23 PM, 1:2



MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces are to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can cause stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfaction of the construction administrator.
4) The contractor shall exercise care during excavation to avoid disturbing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contractor's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator reserve the right to make minor modifications to the design or layout of the work as needed.

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR: NAME / SIGNATURE / TITLE / DATE
PROJECT COORDINATOR: NAME / SIGNATURE / TITLE / DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

AREA I

CONTRACT NUMBER 16-526
SHEET NUMBER 24
SHEET NO. 24 OF 4
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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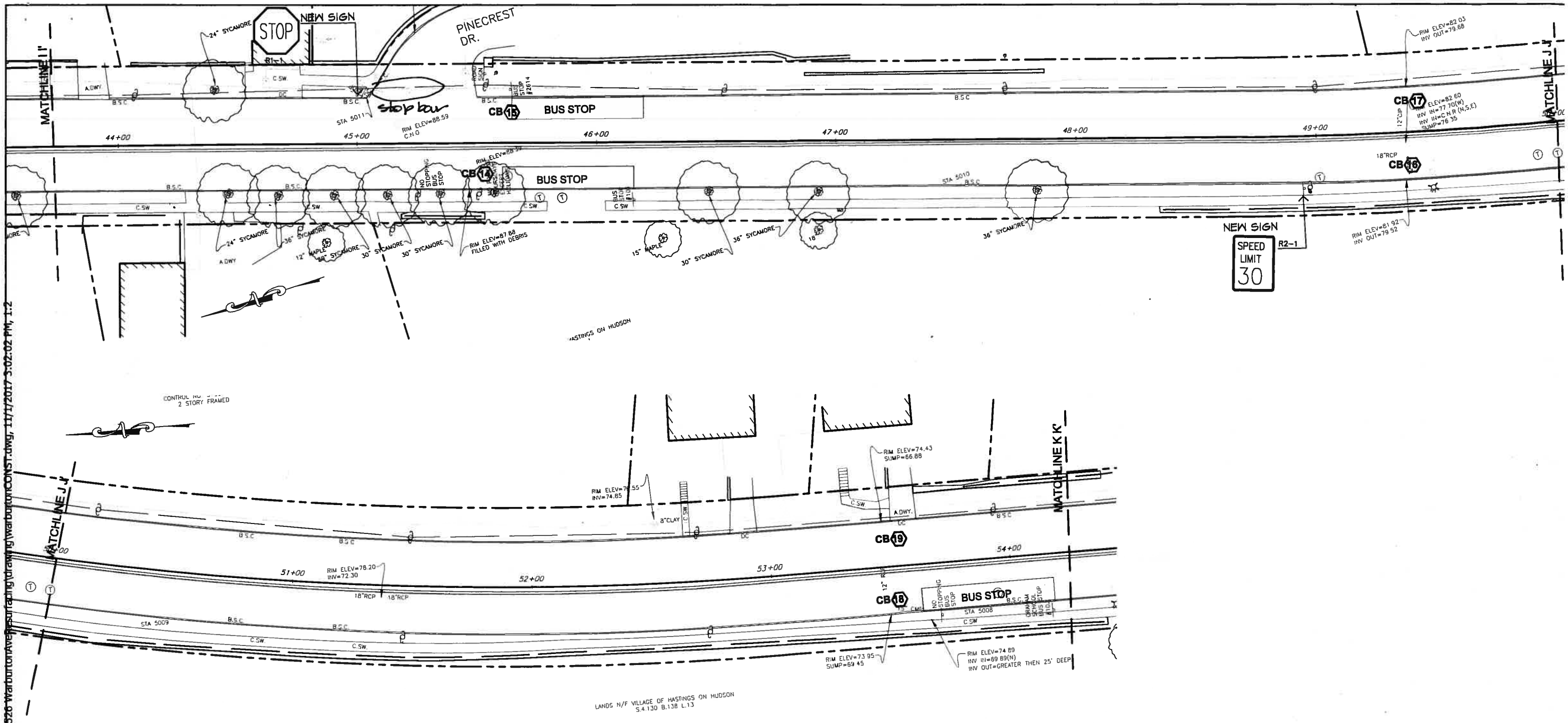

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EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

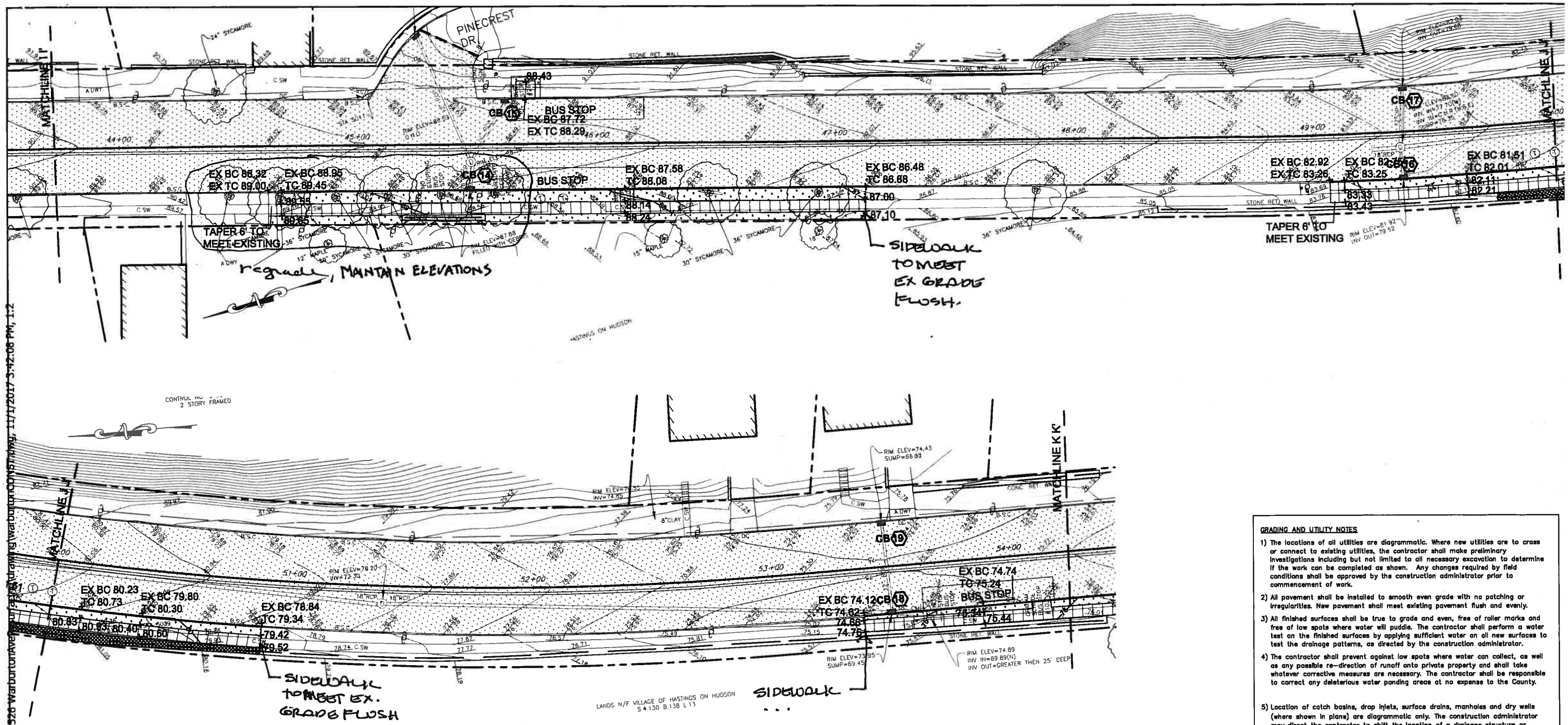
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

AREA I

CONTRACT NUMBER 16-526
SHEET NUMBE 25
SHEET NO. 25 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0



EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB 2 — CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- 82 — PROPOSED CONTOURS
- + 82 — PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contractor shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.
2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.
3) All finished surfaces shall be true to grade and even, free of roller marks and free of low spots where water will puddle. The contractor shall perform a water test on the finished surfaces by applying sufficient water on all new surfaces to test the drainage patterns, as directed by the construction administrator.
4) The contractor shall prevent against low spots where water can collect, as well as any possible re-direction of runoff onto private property and shall take whatever corrective measures are necessary. The contractor shall be responsible to correct any deleterious water ponding areas at no expense to the County.
5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.
6) The contractor shall keep all roadways and access drives used for hauling of materials and equipment free from soil and debris. The contractor shall be responsible for any damage and/or spills caused by his operations and shall be required to make repairs and/or cleanup debris including but not limited to street sweeping at no expense to the County.
7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.
8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.
9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

AREA I

CONTRACT NUMBER 16-526
SHEET NUMBER 26
SHEET NO. 26 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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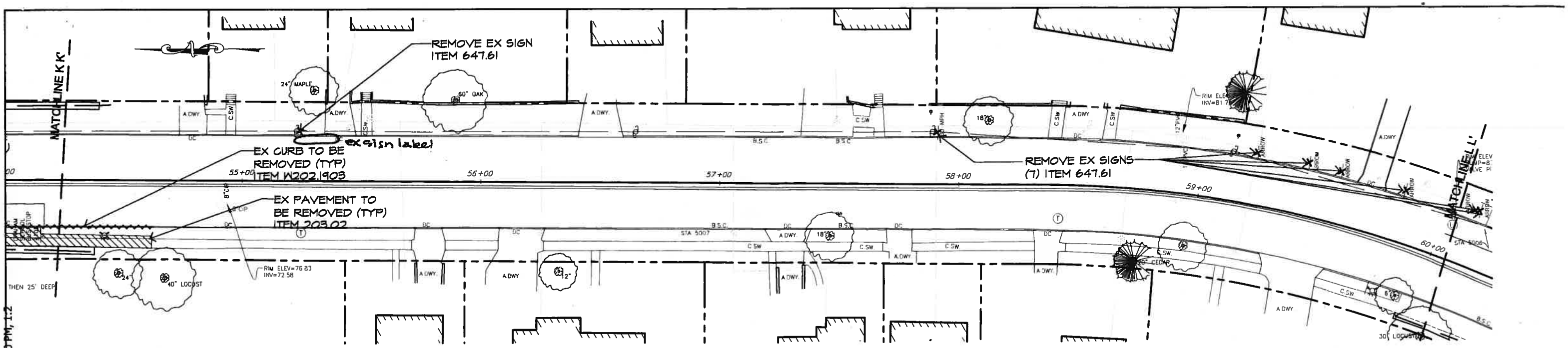

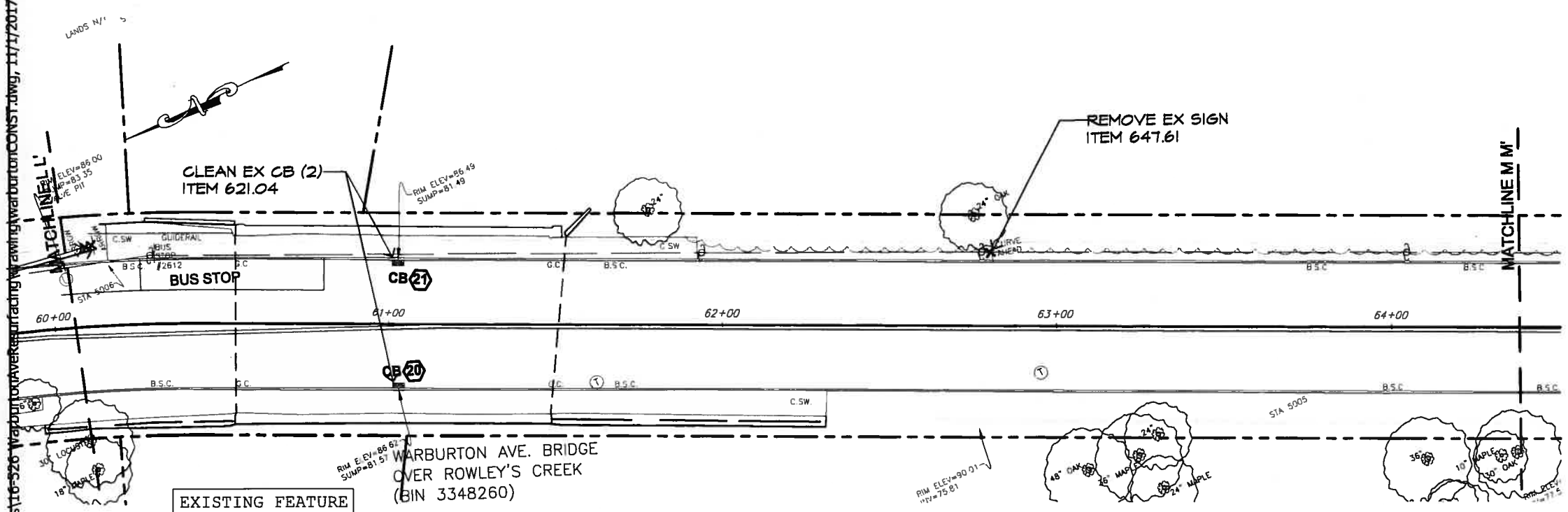

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- EXISTING CURB TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY
- CLEAR & GRUB ITEM 201.06
- REMOVE EXISTING SITE FEATURE

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SITE PREPARATION & REMOVALS PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 27
SHEET NO. 27 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX–XX–X–XX–0

AREA I

SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'–0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

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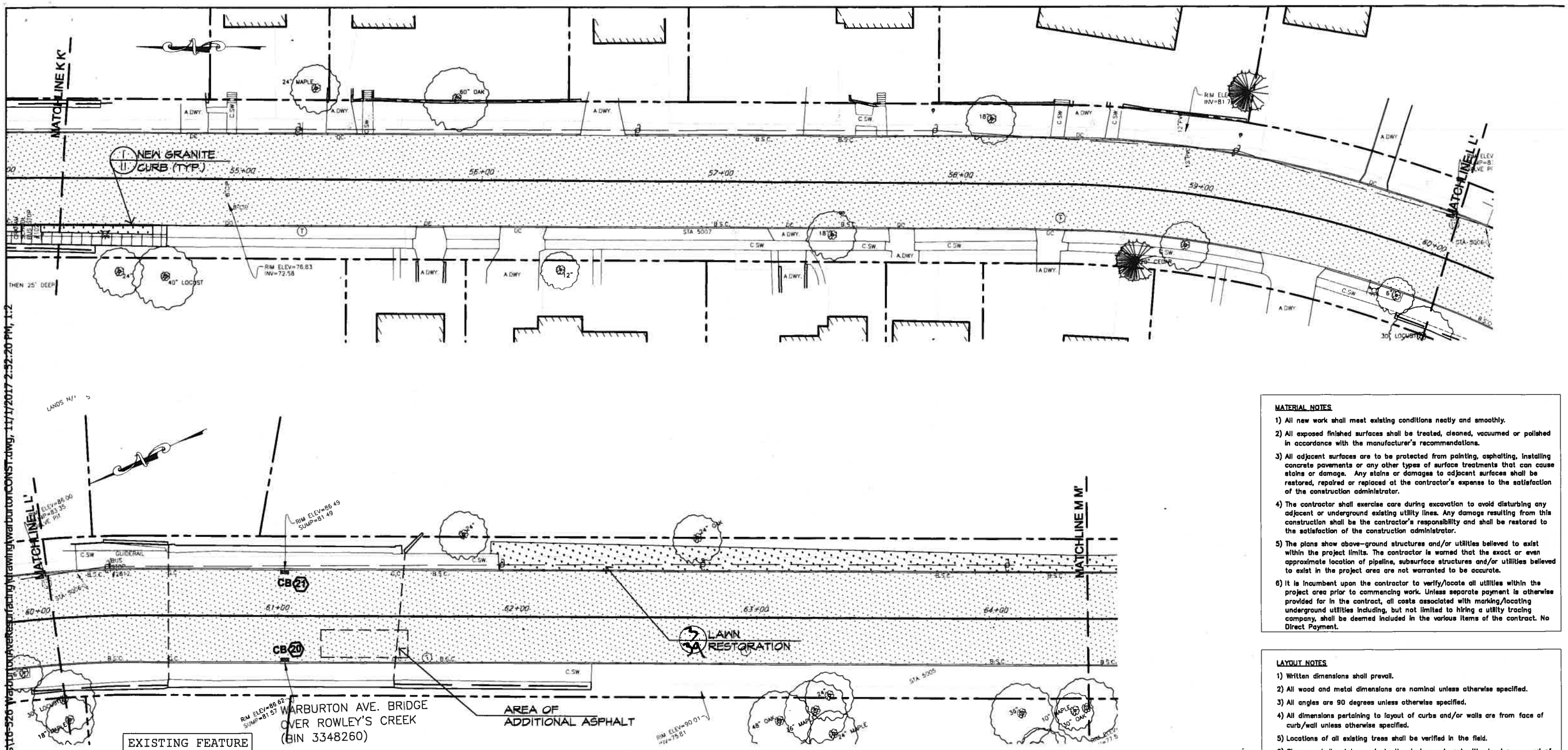

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
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- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
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- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
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5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator reserve the right to make minor modifications to the design or layout of the work as needed.

AREA

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

CONTRACT NUMBER 16-526
SHEET NUMBE 2
SHEET NO. 28 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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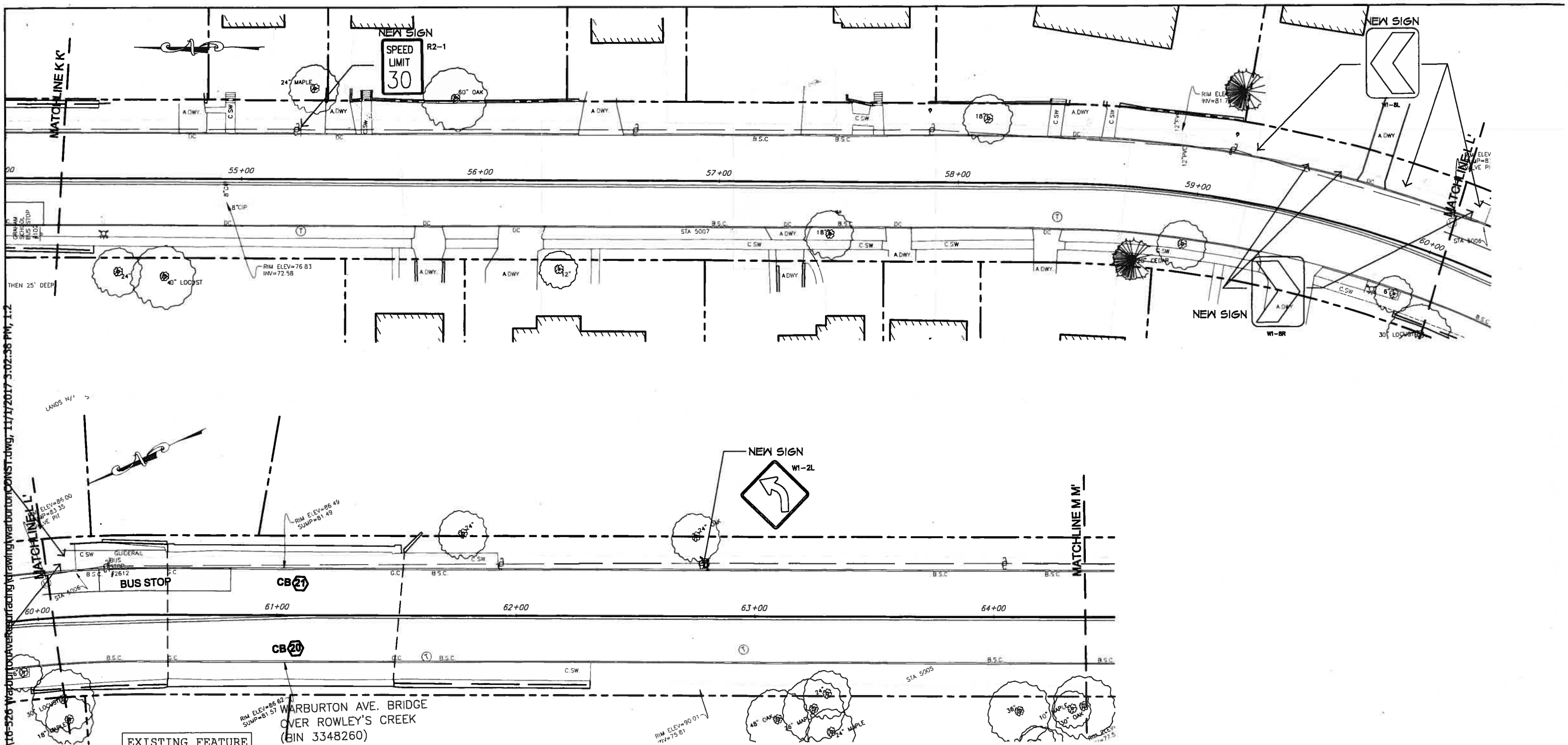

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 29
SHEET NO. 29 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

AREA I

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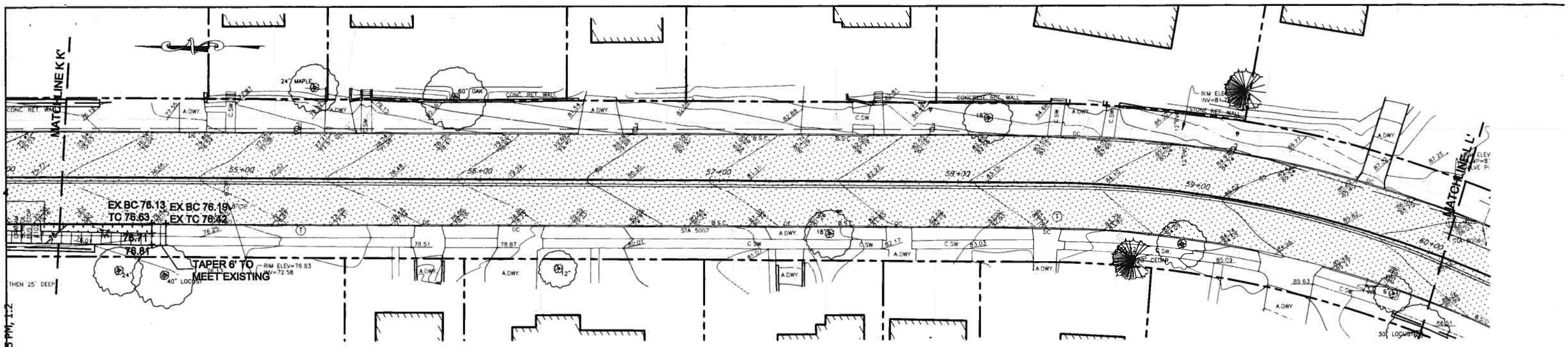

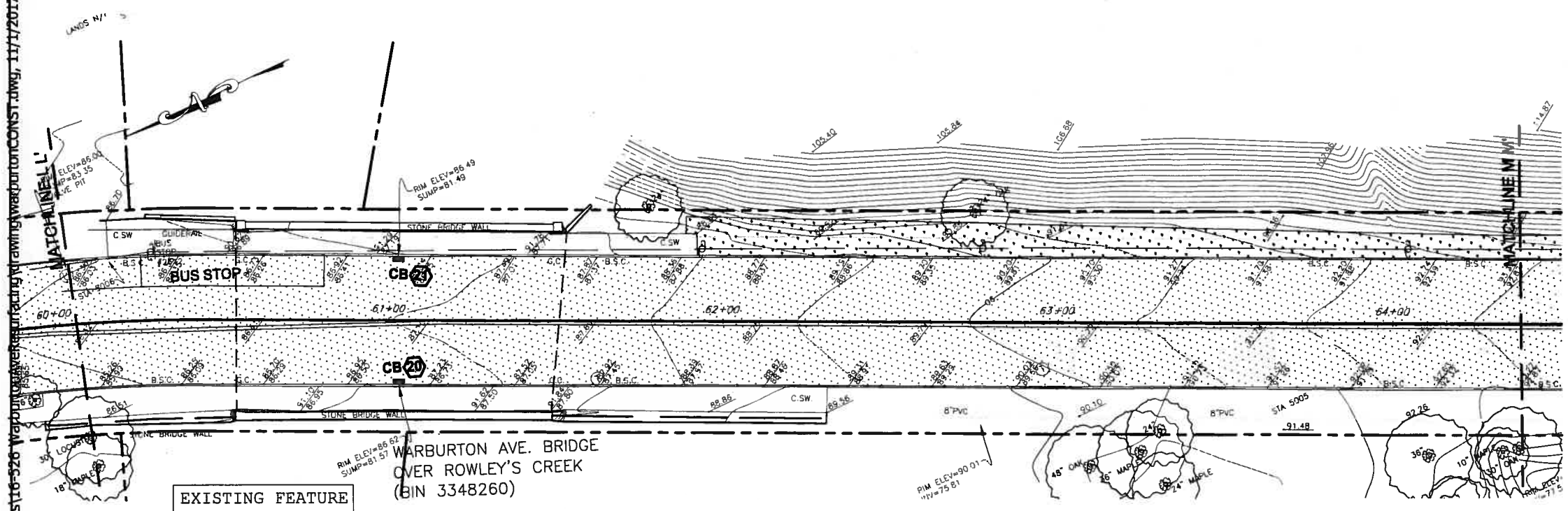

EXISTING FEATURE

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- Gas Valve
- Water Valve
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- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB 2 — CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- 82 — PROPOSED CONTOURS
- + 82 — PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE 1/10
- ASPHALT DRIVEWAY REPAIR 3/10
- LAWN RESTORATION 1/12
- CONCRETE SIDEWALK 2/11
- CONCRETE DRIVEWAY 5/11

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 30
SHEET NO. 30 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX–XX–X–XX–0

AREA I

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contractor shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.
2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.
3) All finished surfaces shall be true to grade and even, free of roller marks and free of low spots where water will puddle. The contractor shall perform a water test on the finished surfaces by applying sufficient water on all new surfaces to test the drainage patterns, as directed by the construction administrator.
4) The contractor shall prevent against low spots where water can collect, as well as any possible re–direction of runoff onto private property and shall take whatever corrective measures are necessary. The contractor shall be responsible to correct any deleterious water ponding areas at no expense to the County.
5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.
6) The contractor shall keep all roadways and access drives used for hauling of materials and equipment free from soil and debris. The contractor shall be responsible for any damage and/or spills caused by his operations and shall be required to make repairs and/or cleanup debris including but not limited to street sweeping at no expense to the County.
7) Minimum cover of pipes shall be 2'–0" from finished grade to top of pipe, except where noted otherwise.
8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.
9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

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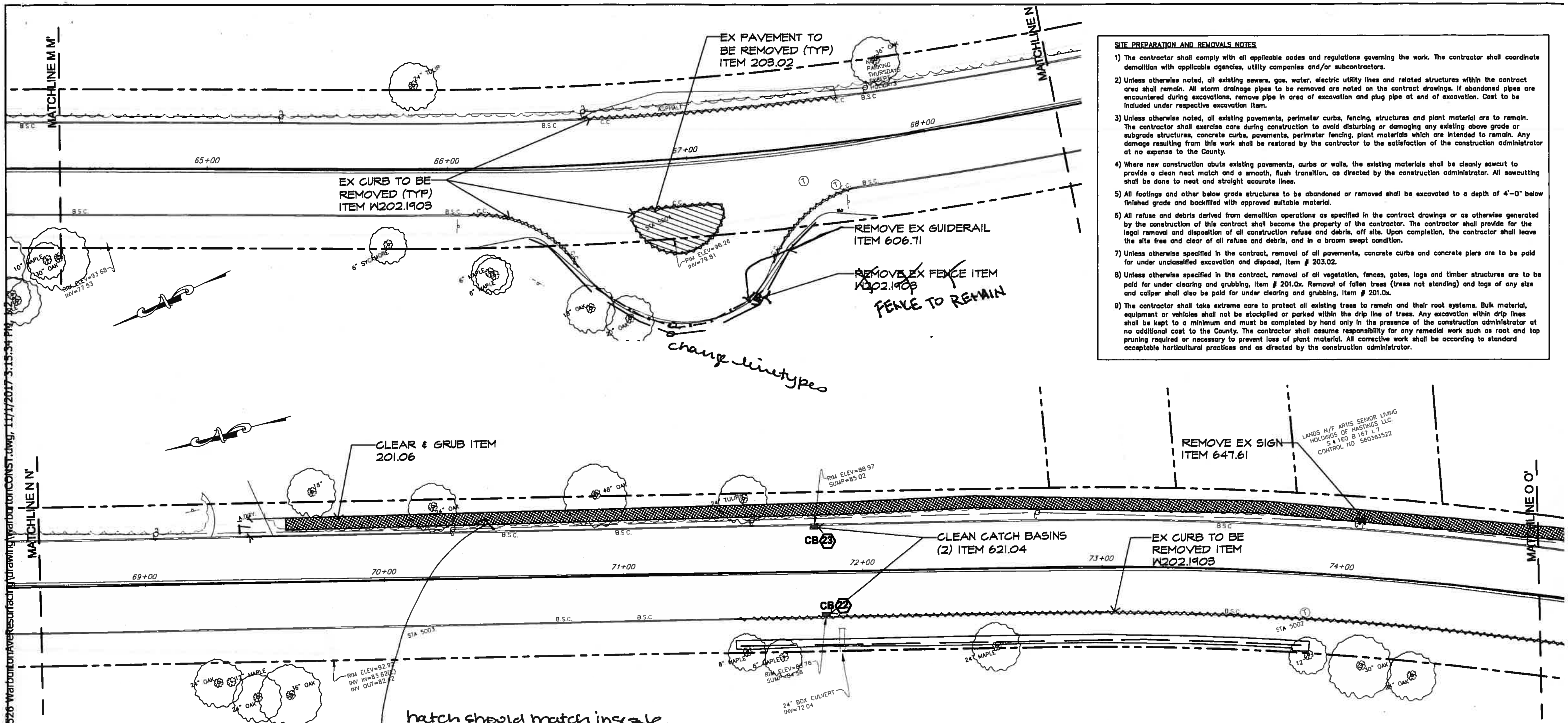


SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'-0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- EXISTING CURB TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY
- CLEAR & GRUB ITEM 201.06
- REMOVE EXISTING SITE FEATURE

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

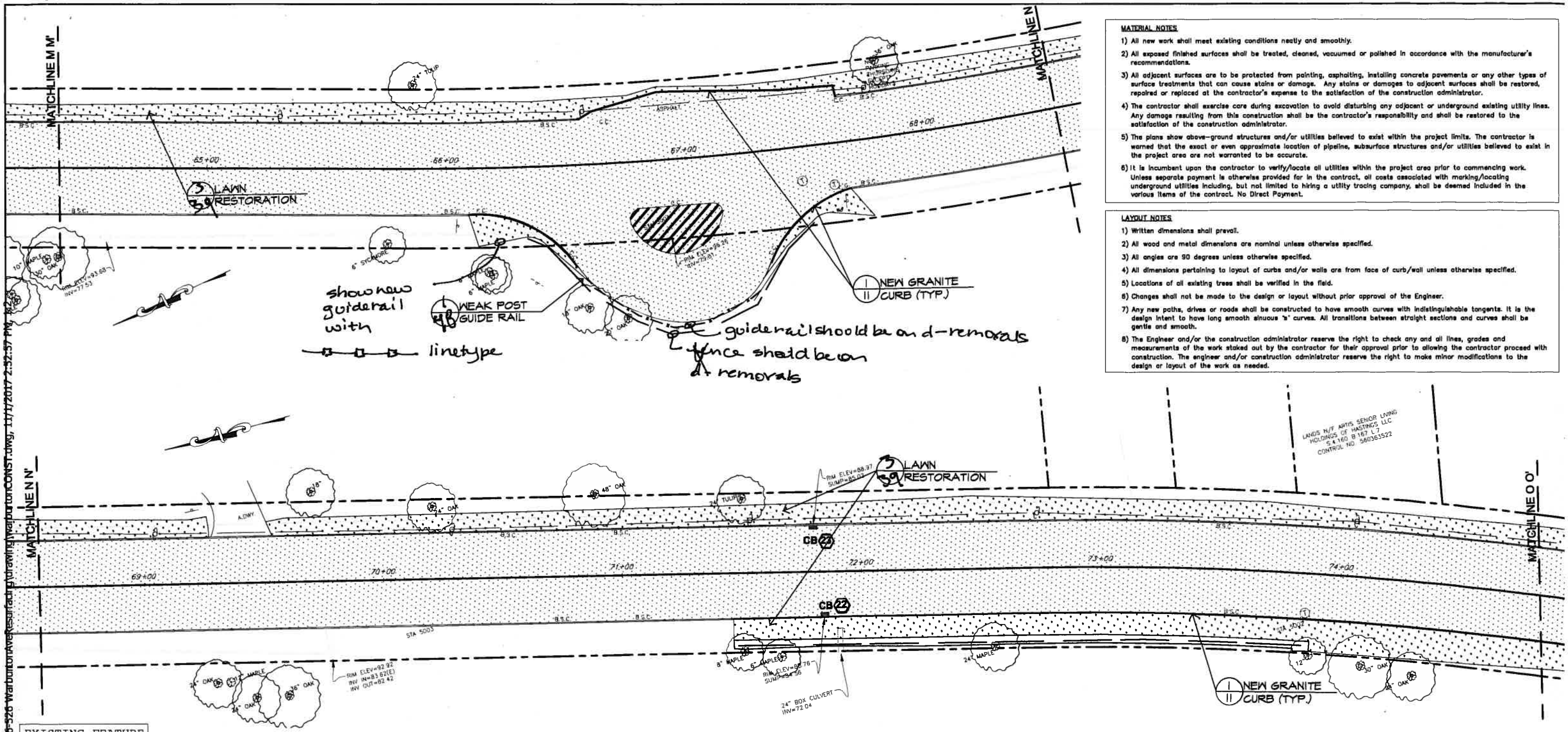
SITE PREPARATION & REMOVALS PLAN

CONTRACT NUMBER	SHEET NUMBE
16-526	31

SHEET NO. 31 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX–XX–X–XX–O

AREA (

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave Resurfacing\Drawing\WarburtonCONST.dwg, 11/1/2017 3:15:34 PM, 1:24



MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces are to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can cause stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfaction of the construction administrator.
4) The contractor shall exercise care during excavation to avoid disturbing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contractor's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator reserve the right to make minor modifications to the design or layout of the work as needed.

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
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SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

CONTRACT NUMBER 16-526
SHEET NUMBER 32
SHEET NO. 32 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

AREA

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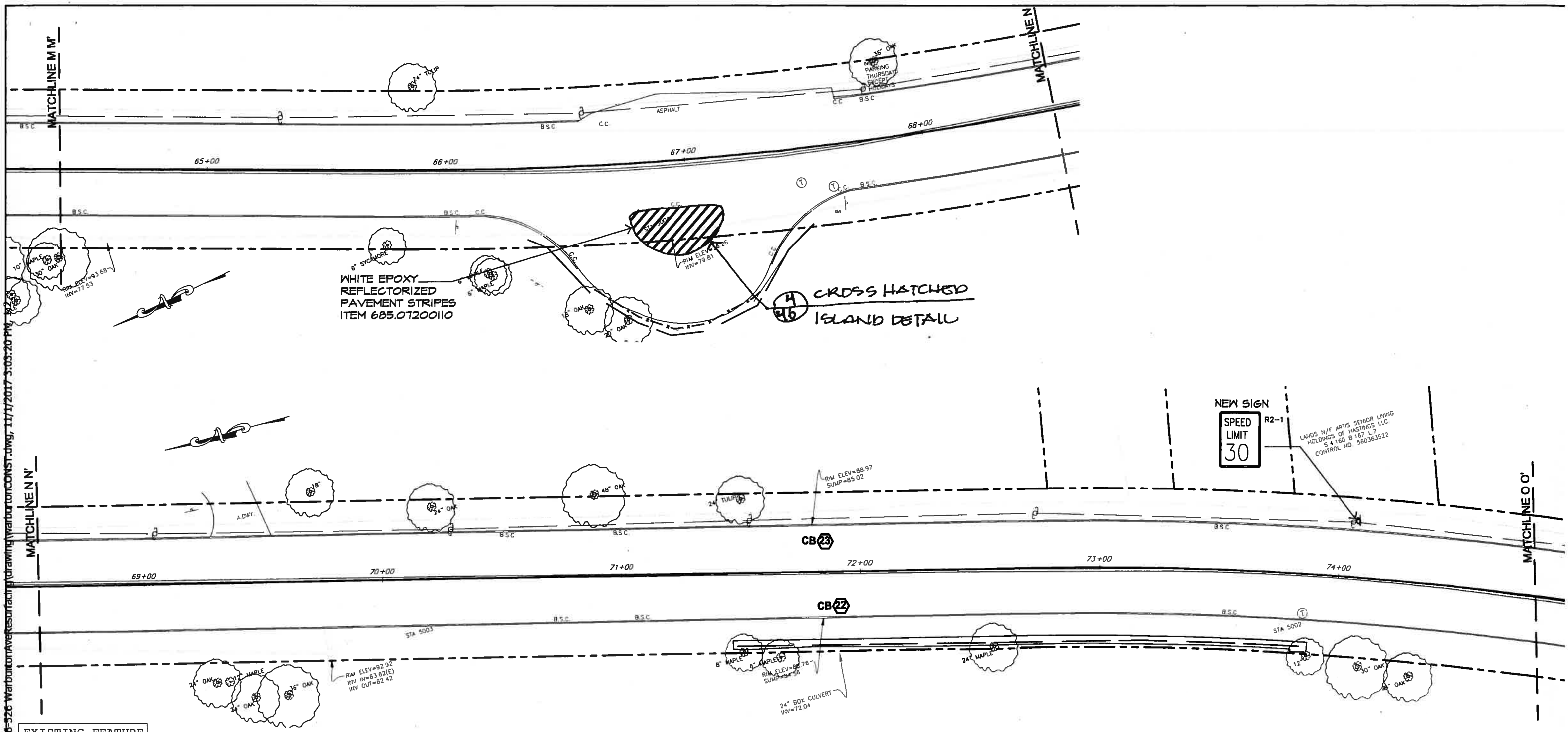

EXISTING FEATURE

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- Sewer Manhole
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- Light Pole
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- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

AREA C

CONTRACT NUMBER	SHEET NUMBER
16-526	33

SHEET NO. 33 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO.
XX-XX-X-XX-O

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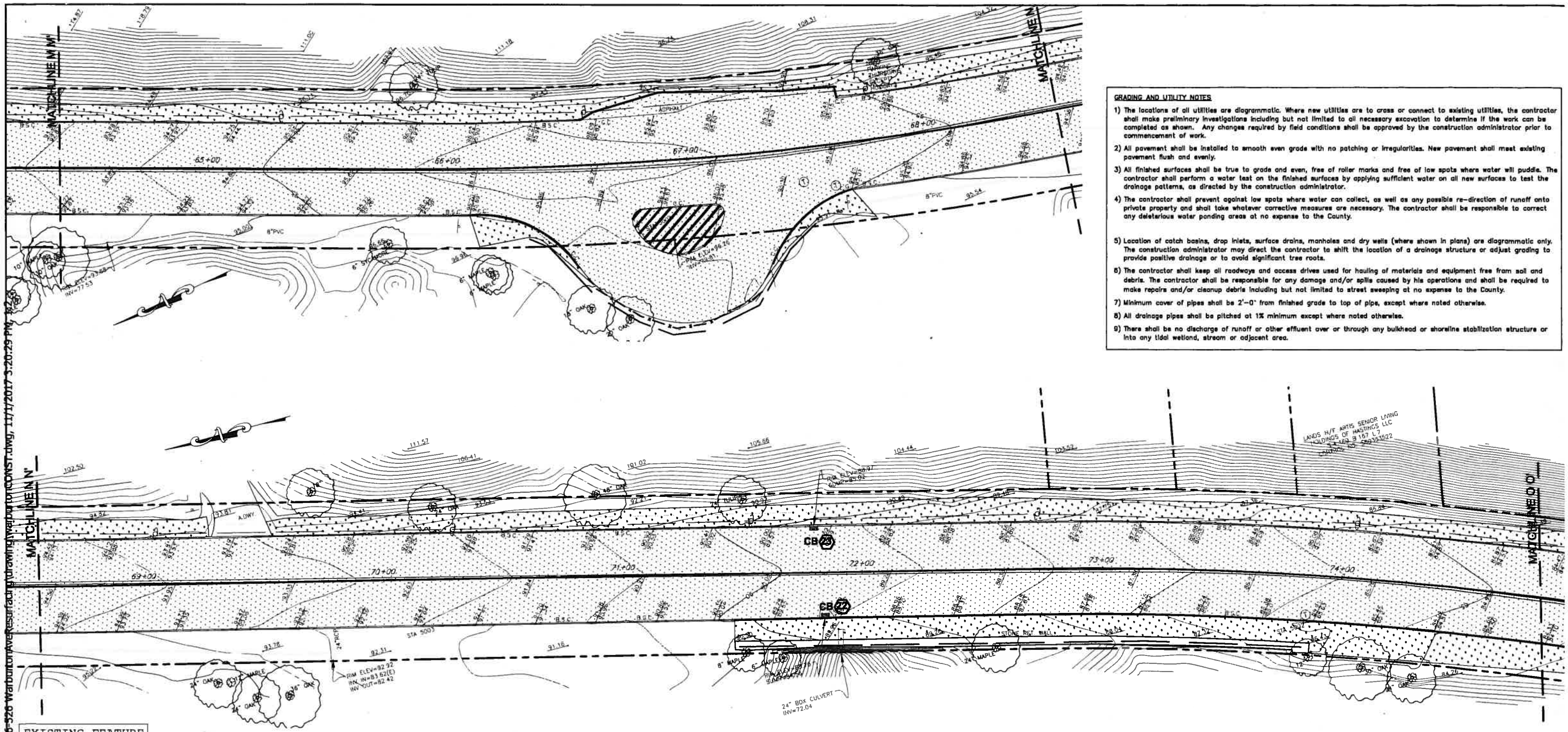

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contractor shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.

2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.

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5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.

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7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.

8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.

9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

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LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- SIGN
- TRUNCATED CONES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB (2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- 82 PROPOSED CONTOURS
- + 82 PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

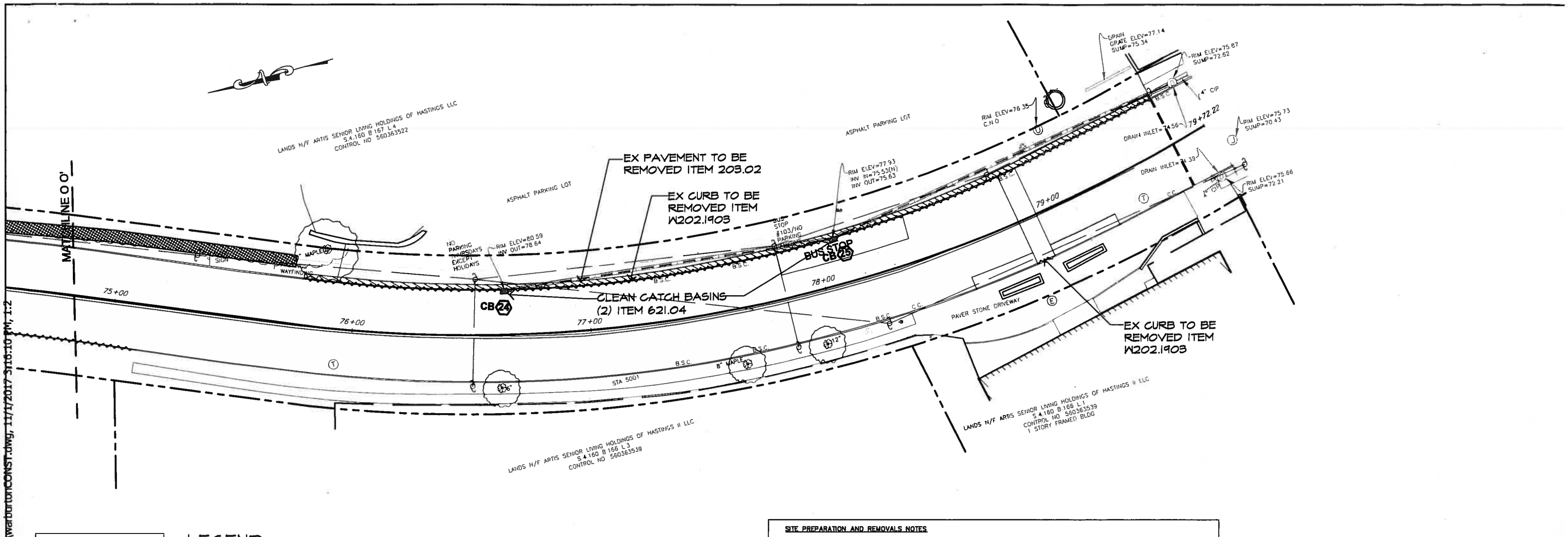
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

AREA

CONTRACT NUMBER 16-526
SHEET NUMBE 34
SHEET NO. 34 OF 4
SCALE: 1" = 20'-0
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave Resurfacing\Drawings\Warburton CONST.dwg, 11/1/2017 3:20:29 PM, 1:2



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- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- EXISTING CURB, WALL, OR FENCE TO BE REMOVED COMPLETELY
- EXISTING PAVEMENT TO BE REMOVED COMPLETELY ITEM 203.02
- CLEAR & GRUB ITEM 201.06
- REMOVE/RESET EXISTING SITE FEATURE

SITE PREPARATION AND REMOVALS NOTES

1) The contractor shall comply with all applicable codes and regulations governing the work. The contractor shall coordinate demolition with applicable agencies, utility companies and/or subcontractors.

2) Unless otherwise noted, all existing sewers, gas, water, electric utility lines and related structures within the contract area shall remain. All storm drainage pipes to be removed are noted on the contract drawings. If abandoned pipes are encountered during excavations, remove pipe in area of excavation and plug pipe at end of excavation. Cost to be included under respective excavation item.

3) Unless otherwise noted, all existing pavements, perimeter curbs, fencing, structures and plant material are to remain. The contractor shall exercise care during construction to avoid disturbing or damaging any existing above grade or subgrade structures, concrete curbs, pavements, perimeter fencing, plant materials which are intended to remain. Any damage resulting from this work shall be restored by the contractor to the satisfaction of the construction administrator at no expense to the County.

4) Where new construction abuts existing pavements, curbs or walls, the existing materials shall be cleanly sawcut to provide a clean neat match and a smooth, flush transition, as directed by the construction administrator. All sawcutting shall be done to neat and straight accurate lines.

5) All footings and other below grade structures to be abandoned or removed shall be excavated to a depth of 4'-0" below finished grade and backfilled with approved suitable material.

6) All refuse and debris derived from demolition operations as specified in the contract drawings or as otherwise generated by the construction of this contract shall become the property of the contractor. The contractor shall provide for the legal removal and disposition of all construction refuse and debris, off site. Upon completion, the contractor shall leave the site free and clear of all refuse and debris, and in a broom swept condition.

7) Unless otherwise specified in the contract, removal of all pavements, concrete curbs and concrete piers are to be paid for under unclassified excavation and disposal, item # 203.02.

8) Unless otherwise specified in the contract, removal of all vegetation, fences, gates, logs and timber structures are to be paid for under clearing and grubbing, item # 201.0x. Removal of fallen trees (trees not standing) and logs of any size and caliper shall also be paid for under clearing and grubbing, item # 201.0x.

9) The contractor shall take extreme care to protect all existing trees to remain and their root systems. Bulk material, equipment or vehicles shall not be stockpiled or parked within the drip line of trees. Any excavation within drip lines shall be kept to a minimum and must be completed by hand only in the presence of the construction administrator at no additional cost to the County. The contractor shall assume responsibility for any remedial work such as root and top pruning required or necessary to prevent loss of plant material. All corrective work shall be according to standard acceptable horticultural practices and as directed by the construction administrator.

GRAPHIC SCALE
0 20 30 40 50 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SITE PREPARATION & REMOVALS PLAN

AREA I

CONTRACT NUMBER 16-526
SHEET NUMBER 35
SHEET NO. 35 OF 4
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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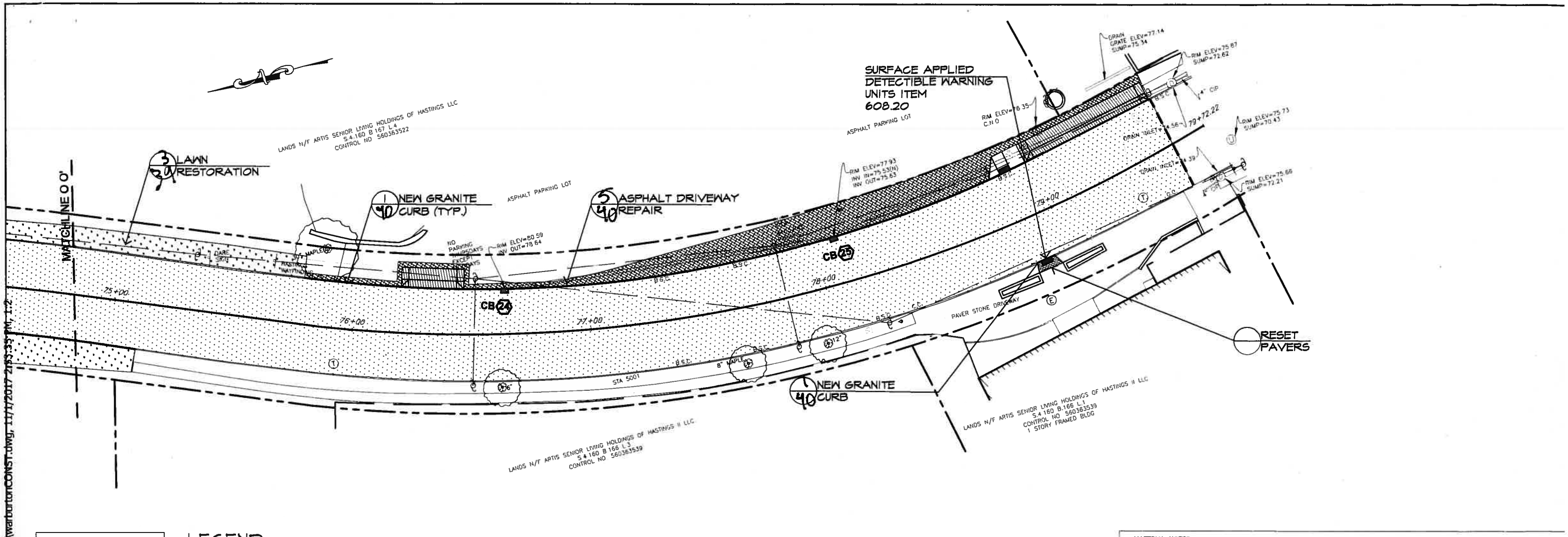

EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- SIGN
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

MATERIAL NOTES

1) All new work shall meet existing conditions neatly and smoothly.
2) All exposed finished surfaces shall be treated, cleaned, vacuumed or polished in accordance with the manufacturer's recommendations.
3) All adjacent surfaces are to be protected from painting, asphalting, installing concrete pavements or any other types of surface treatments that can cause stains or damage. Any stains or damages to adjacent surfaces shall be restored, repaired or replaced at the contractor's expense to the satisfaction of the construction administrator.
4) The contractor shall exercise care during excavation to avoid disturbing any adjacent or underground existing utility lines. Any damage resulting from this construction shall be the contractor's responsibility and shall be restored to the satisfaction of the construction administrator.
5) The plans show above-ground structures and/or utilities believed to exist within the project limits. The contractor is warned that the exact or even approximate location of pipeline, subsurface structures and/or utilities believed to exist in the project area are not warranted to be accurate.
6) It is incumbent upon the contractor to verify/locate all utilities within the project area prior to commencing work. Unless separate payment is otherwise provided for in the contract, all costs associated with marking/locating underground utilities including, but not limited to hiring a utility tracing company, shall be deemed included in the various items of the contract. No Direct Payment.

LAYOUT NOTES

1) Written dimensions shall prevail.
2) All wood and metal dimensions are nominal unless otherwise specified.
3) All angles are 90 degrees unless otherwise specified.
4) All dimensions pertaining to layout of curbs and/or walls are from face of curb/wall unless otherwise specified.
5) Locations of all existing trees shall be verified in the field.
6) Changes shall not be made to the design or layout without prior approval of the Engineer.
7) Any new paths, drives or roads shall be constructed to have smooth curves with indistinguishable tangents. It is the design intent to have long smooth sinuous "s" curves. All transitions between straight sections and curves shall be gentle and smooth.
8) The Engineer and/or the construction administrator reserve the right to check any and all lines, grades and measurements of the work staked out by the contractor for their approval prior to allowing the contractor proceed with construction. The engineer and/or construction administrator reserve the right to make minor modifications to the design or layout of the work as needed.

GRAPHIC SCALE
0 20 30 40 60 100
(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR: NAME / SIGNATURE / TITLE / DATE
PROJECT COORDINATOR: NAME / SIGNATURE / TITLE / DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

LAYOUT AND MATERIALS PLAN

AREA I

CONTRACT NUMBER 16-526
SHEET NUMBER 36
SHEET NO. 36 OF 49
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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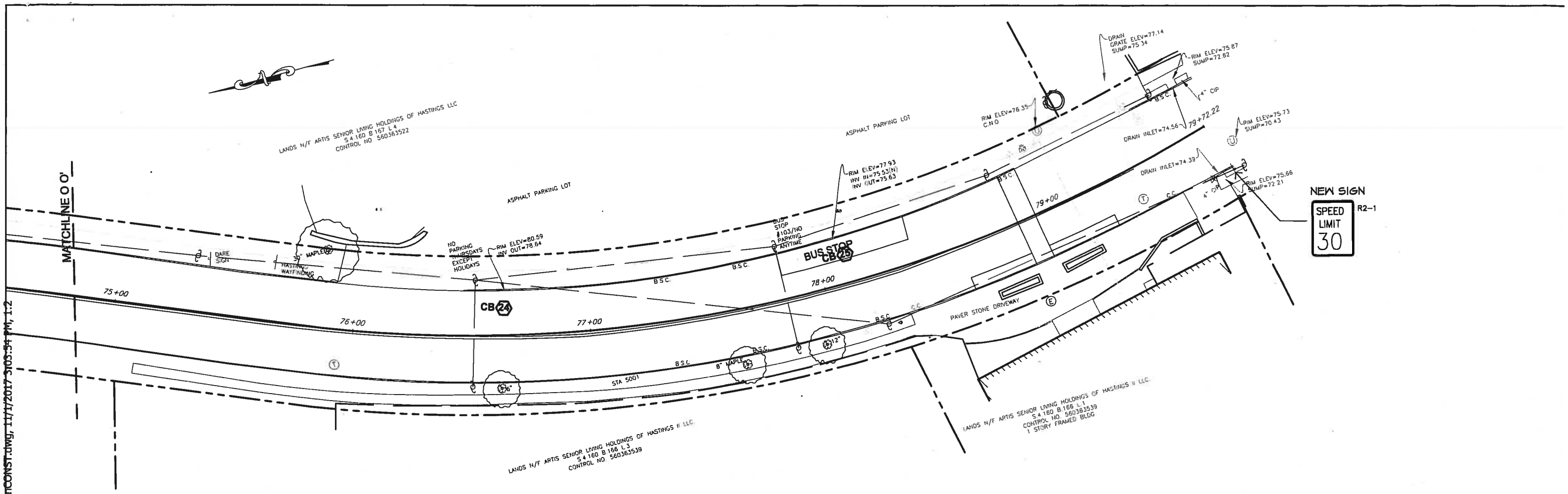

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EXISTING FEATURE
Unknown Manhole
Sewer Manhole
Drain Manhole
Electric Manhole
Telephone Manhole
Guy Pole
Utility Pole
Catch Basin
Light Pole
Gas Valve
Water Valve
Water Meter
Hydrant
Sign
Traffic Box
Parking Meter

LEGEND

PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)

EXISTING TREE TO REMAIN

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE AND STRIPING PLAN

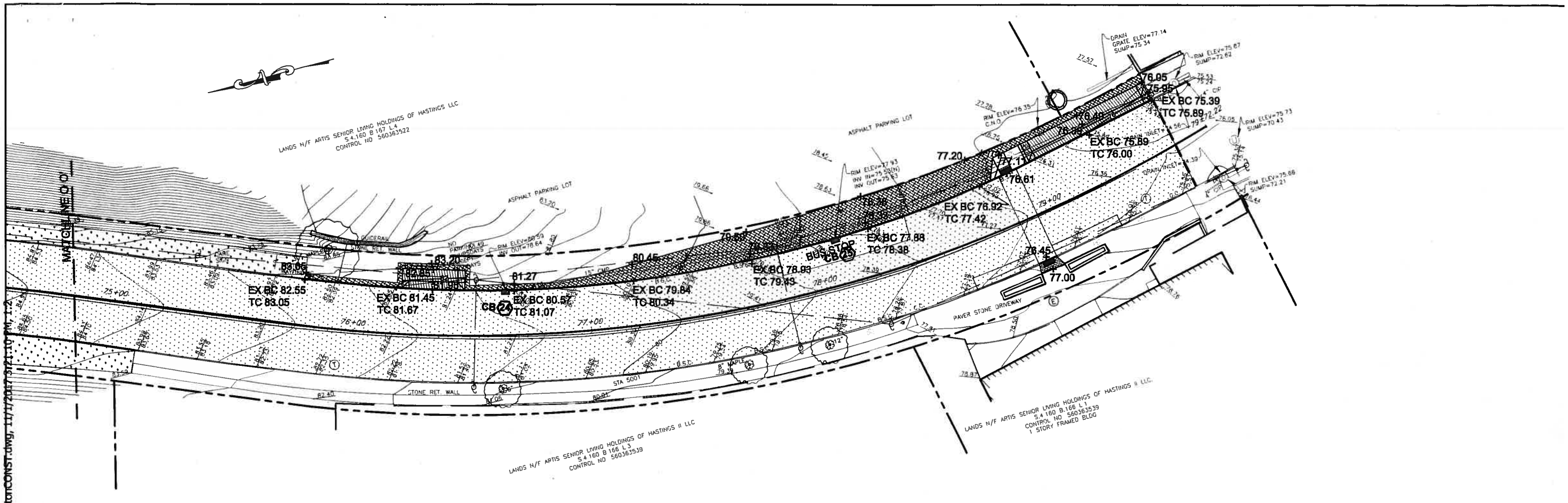
AREA I

CONTRACT NUMBER	SHEET NUMBER
16-526	37

SHEET NO. 37 OF 4

SCALE: 1" = 20'-0"
DATE: 11/1/2017

DPW FILE NO.
XX–XX–X–XX–O



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EXISTING FEATURE

- Unknown Manhole
- Sewer Manhole
- Drain Manhole
- Electric Manhole
- Telephone Manhole
- Guy Pole
- Utility Pole
- Catch Basin
- Light Pole
- Gas Valve
- Water Valve
- Water Meter
- Hydrant
- Sign
- Traffic Box
- Parking Meter

LEGEND

- PAVEMENT LIMIT LINE & ASPHALT OVERLAY SPLICE (OUTER SAWCUT)
- EXISTING TREE TO REMAIN
- PROPOSED GRANITE CURB
- PROPOSED VEHICULAR DRIVEWAY APRON
- TRUNCATED COMES FOR PEDESTRIAN DROP CURB
- NEW ROOF LEADER CONNECTION
- CB(2) CATCH BASIN (SEE CHART FOR WORK DESCRIPTION SHEET 12)
- SIGN
- 82 PROPOSED CONTOURS
- + 82 PROPOSED SPOT ELEVATION
- ASPHALT - MILL & PAVE (1/10)
- ASPHALT DRIVEWAY REPAIR (3/10)
- LAWN RESTORATION (1/12)
- CONCRETE SIDEWALK (2/11)
- CONCRETE DRIVEWAY (5/11)

GRAPHIC SCALE

0 20 30 40 60 100

(IN FEET)
1 inch = 20 ft.

IN CHARGE OF: A. VENTAROLA
CHECKED BY: S. LOPANE
MADE BY: K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GRADING AND DRAINAGE PLAN

CONTRACT NUMBER: 16-526
SHEET NUMBER: SHEET NO. 5 OF 4
SCALE: 1" = 20'-0"
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

AREA I

GRADING AND UTILITY NOTES

1) The locations of all utilities are diagrammatic. Where new utilities are to cross or connect to existing utilities, the contracto shall make preliminary investigations including but not limited to all necessary excavation to determine if the work can be completed as shown. Any changes required by field conditions shall be approved by the construction administrator prior to commencement of work.

2) All pavement shall be installed to smooth even grade with no patching or irregularities. New pavement shall meet existing pavement flush and evenly.

3) All finished surfaces shall be true to grade and even, free of roller marks and free of low spots where water will puddle. Th contractor shall perform a water test on the finished surfaces by applying sufficient water on all new surfaces to test the drainage patterns, as directed by the construction administrator.

4) The contractor shall prevent against low spots where water can collect, as well as any possible re-direction of runoff onto private property and shall take whatever corrective measures are necessary. The contractor shall be responsible to correct any deleterious water ponding areas at no expense to the County.

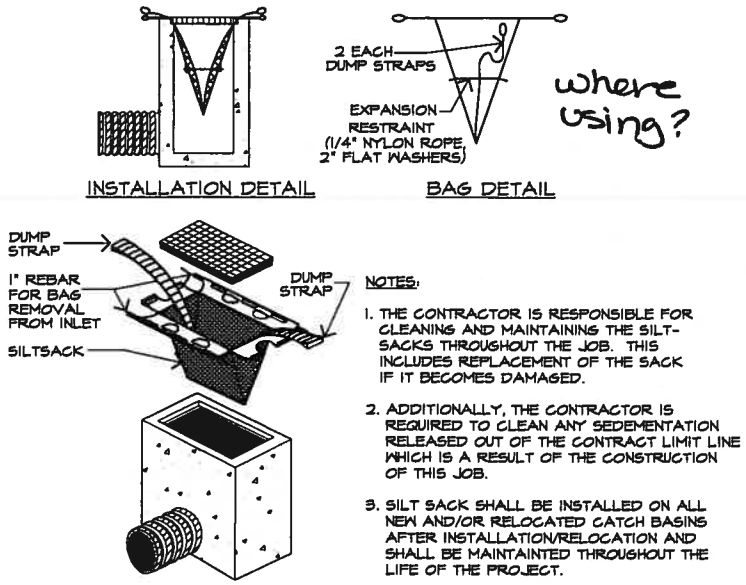
5) Location of catch basins, drop inlets, surface drains, manholes and dry wells (where shown in plans) are diagrammatic only. The construction administrator may direct the contractor to shift the location of a drainage structure or adjust grading to provide positive drainage or to avoid significant tree roots.

6) The contractor shall keep all roadways and access drives used for hauling of materials and equipment free from soil and debris. The contractor shall be responsible for any damage and/or spills caused by his operations and shall be required to make repairs and/or cleanup debris including but not limited to street sweeping at no expense to the County.

7) Minimum cover of pipes shall be 2'-0" from finished grade to top of pipe, except where noted otherwise.

8) All drainage pipes shall be pitched at 1% minimum except where noted otherwise.

9) There shall be no discharge of runoff or other effluent over or through any bulkhead or shoreline stabilization structure or into any tidal wetland, stream or adjacent area.

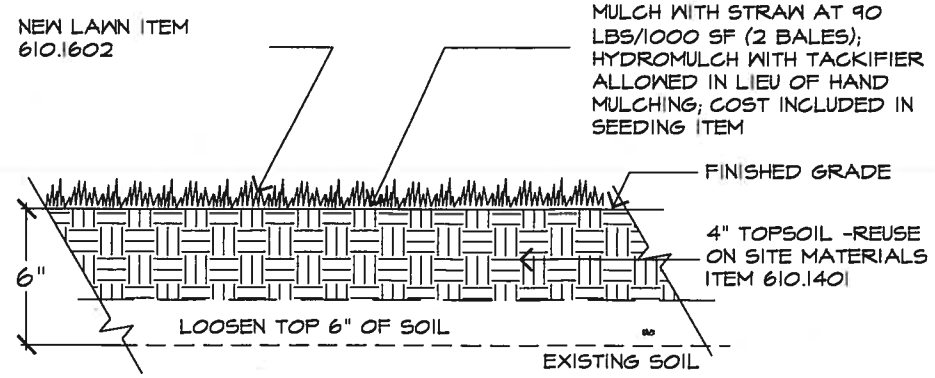


NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND MAINTAINING THE SILT-SACKS THROUGHOUT THE JOB. THIS INCLUDES REPLACEMENT OF THE SACK IF IT BECOMES DAMAGED.
2. ADDITIONALLY, THE CONTRACTOR IS REQUIRED TO CLEAN ANY SEDEMENTATION RELEASED OUT OF THE CONTRACT LIMIT LINE WHICH IS A RESULT OF THE CONSTRUCTION OF THIS JOB.
3. SILT SACK SHALL BE INSTALLED ON ALL NEW AND/OR RELOCATED CATCH BASINS AFTER INSTALLATION/RELOCATION AND SHALL BE MAINTAINTED THROUGHOUT THE LIFE OF THE PROJECT.

1/39 SEDIMENT FILTER BAG

ITEM W209.1703 — NOT TO SCALE

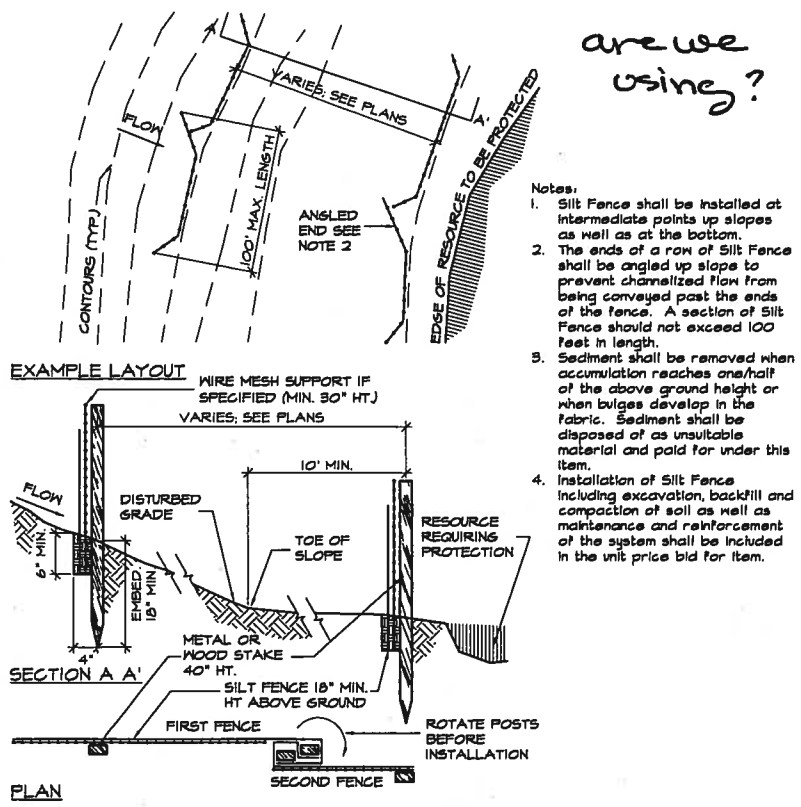


3/39 LAWN RESTORATION

NOT TO SCALE

EROSION CONTROL NOTES

1) All proposed soil erosion and sediment control practices have been designed in accordance with the most recent editions of the New York State Stormwater Management Design Manual and the New York State Standards and Specifications for Erosion and Sediment Control. The contractor shall comply with all applicable stormwater management, water quality control, erosion, and sediment control laws, rules, regulations and permits.
2) Sediment and erosion control practices shall be installed prior to any major soil disturbances and maintained until permanent protection is established.
3) The contractor shall be responsible for the timely maintenance of sediment and erosion control practices. All practices shall be maintained in good working order. The sediment level in all sediment traps shall be closely monitored and sediment removed when maximum levels are reached or as ordered by the construction administrator. All sediment control practices shall be inspected on a regular basis, and after rainfall events greater than half an inch to ensure proper operation as designed.
4) All soils not being used for final grading shall be immediately, protected, stabilized and stockpiled in a location away from storm drains and waterbodies as approved by the construction administrator. All soil stockpiles shall be limed, fertilized, temporarily seeded with annual or perennial ryegrass or oats within 14 days once it is known the soil stockpile will not be used for a period of time greater than 14 days. The cost of such protection and stabilization shall be deemed included in the various items of the contract. No Direct Payment.
5) Any disturbed areas that will be left exposed for more than 21 days and are not subject to construction traffic shall be stabilized with temporary seeding. Erosion control fabric or mulch shall be used on all disturbed areas if the season prevents the establishment of a temporary cover for temporary stabilization. Erosion control fabric shall be used to temporarily stabilize steep slopes (slope gradient of 2:1 or greater). Disturbed areas shall be limed and fertilize prior to temporary seeding.
6) All disturbed areas within 500 feet of an inhabited dwelling shall be wetted as necessary to ensure dust control.
7) Temporary sediment and erosion control practices shall be removed and permanent sediment and erosion control practices implemented, where specified, when the drainage area, including all roads, driveways, and parking areas used during the course of construction has been properly stabilized by permanent practices in accordance with the New York State Stormwater Management Design Manual and the New York State Standards and Specifications for Erosion and Sediment Control.
8) The contractor shall phase the construction in a manner that there will be no more than five acres of soil disturbance at any one time.

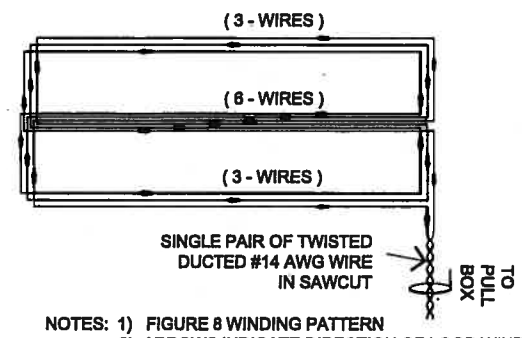


Notes:

1. Silt Fence shall be installed at intermediate points up slopes as well as at the bottom.
2. The ends of a row of Silt Fence shall be angled up slope to prevent channelized flow from being conveyed past the ends of the fence. A section of Silt Fence should not exceed 100 feet in length.
3. Sediment shall be removed when accumulation reaches one/half of the above ground height or when bulges develop in the fabric. Sediment shall be disposed of as unsuitable material and paid for under this item.
4. Installation of Silt Fence including excavation, backfill and compaction of soil as well as maintenance and reinforcement of the system shall be included in the unit price bid for item.

2/39 SILT FENCE -TEMPORARY

ITEM 209.13 — SCALE 3/4" = 1'-0"

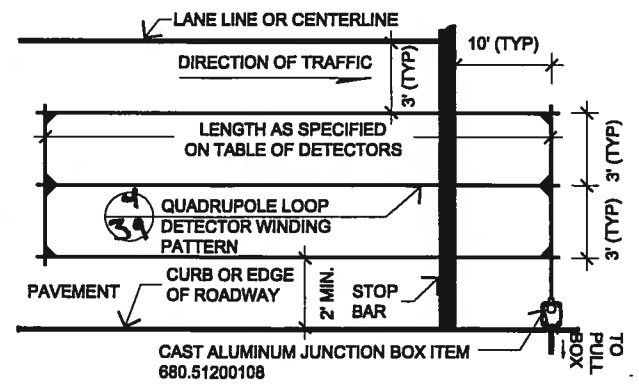


NOTES: 1) FIGURE 8 WINDING PATTERN
2) ARROWS INDICATE DIRECTION OF LOOP WINDING

4/39 QUADRUPOLE LOOP DETECTOR WINDING PATTERN

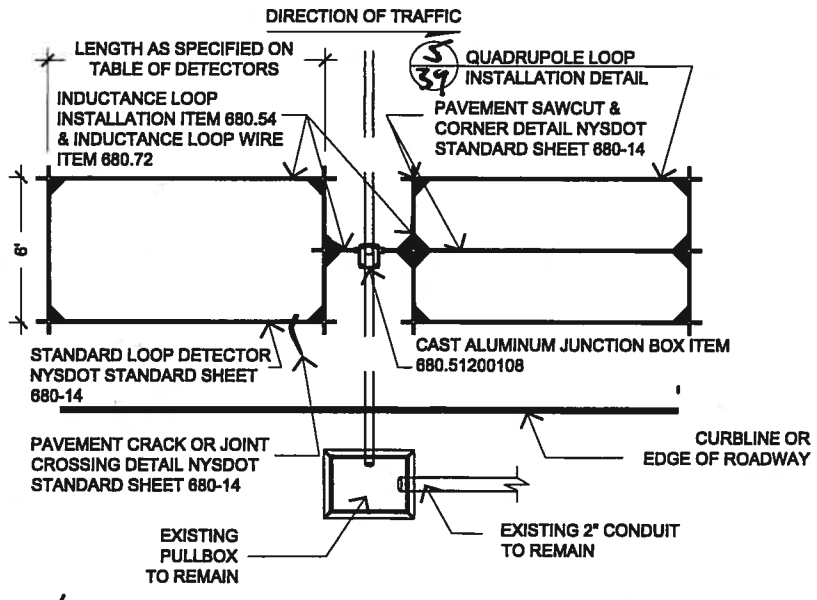
NOT TO SCALE

TABLE OF DETECTORS					
SIGNAL NO.	DETECTOR NO.	TYPE	MODE	SIZE	NO OF TURNS
30	3A, 13A	QUAD	PRESENCE	2 - 3' X 20'	3-6-3
30	3B, 13B	LOOP	PRESENCE	6' X 30'	3
48	3-6A	QUAD	PRESENCE	2- 3' X 40'	3-6-3



5/39 QUADRUPOLE LOOP INSTALLATION DETAILS

SCALE 1/4" = 1'-0"



6/39 VEHICLE DETECTOR INSTALLATION (DUAL PRESENCE LOOPS)

SCALE 1/4" = 1'-0"

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
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CONTRACTOR: NAME / SIGNATURE / TITLE / DATE
PROJECT COORDINATOR: NAME / SIGNATURE / TITLE / DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SITE PREPARATION & RESTORATION DETAILS

CONTRACT NUMBER 16-526 — SHEET NUMBER 39
SHEET NO. 39 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-O

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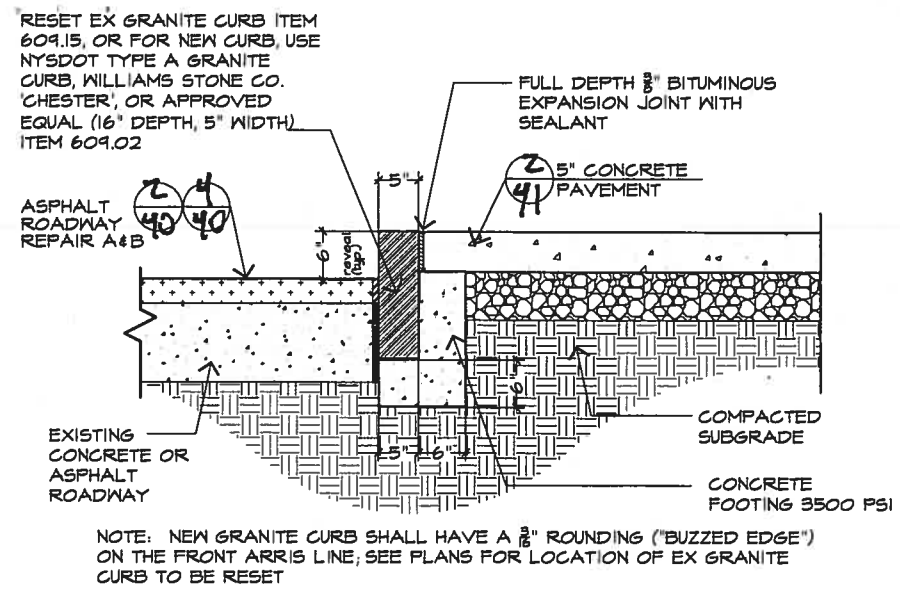
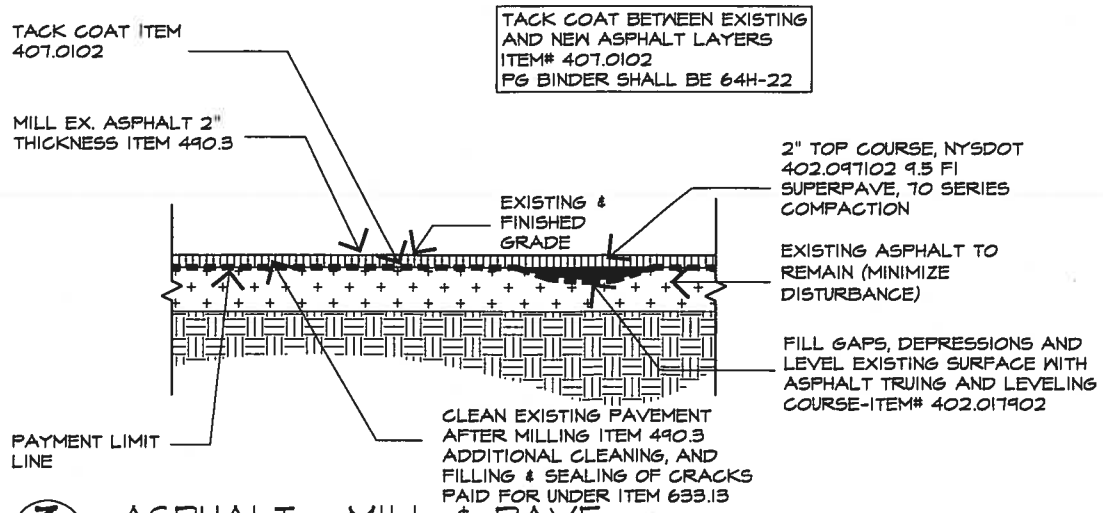


NOTE: NEW GRANITE CURB SHALL HAVE A 3/8" ROUNDING ("BUZZED EDGE") ON THE FRONT ARRIS LINE; SEE PLANS FOR LOCATION OF EX GRANITE CURB TO BE RESET

1/40 RESET/NEW GRANITE CURB

(W609.0308/W609.0201)

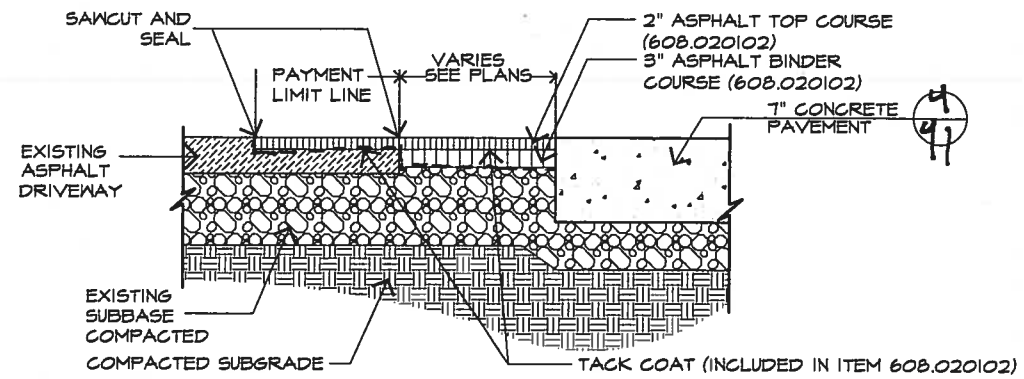
SCALE 1"=1'-0"



3/40 ASPHALT - MILL & PAVE

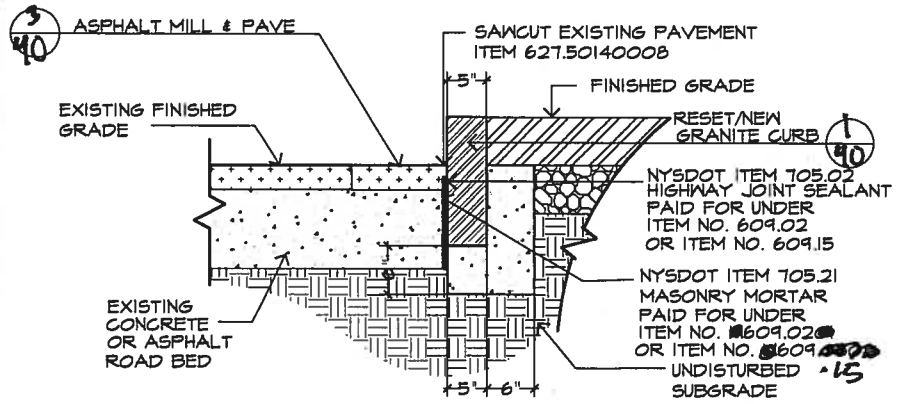
(SHOWN ON LAYOUT PLAN IN DOT HATCH PATTERN)

SCALE 1"=1'-0"



5/40 ASPHALT DRIVEWAY REPAIR

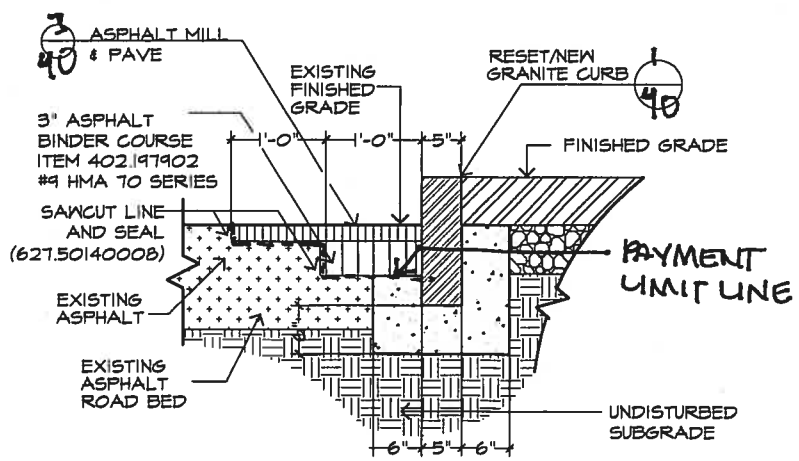
SCALE 1 1/2"=1'-0"



2/40 ASPHALT ROADWAY REPAIR 'A'

WARBURTON AVENUE (COUNTY ROAD)

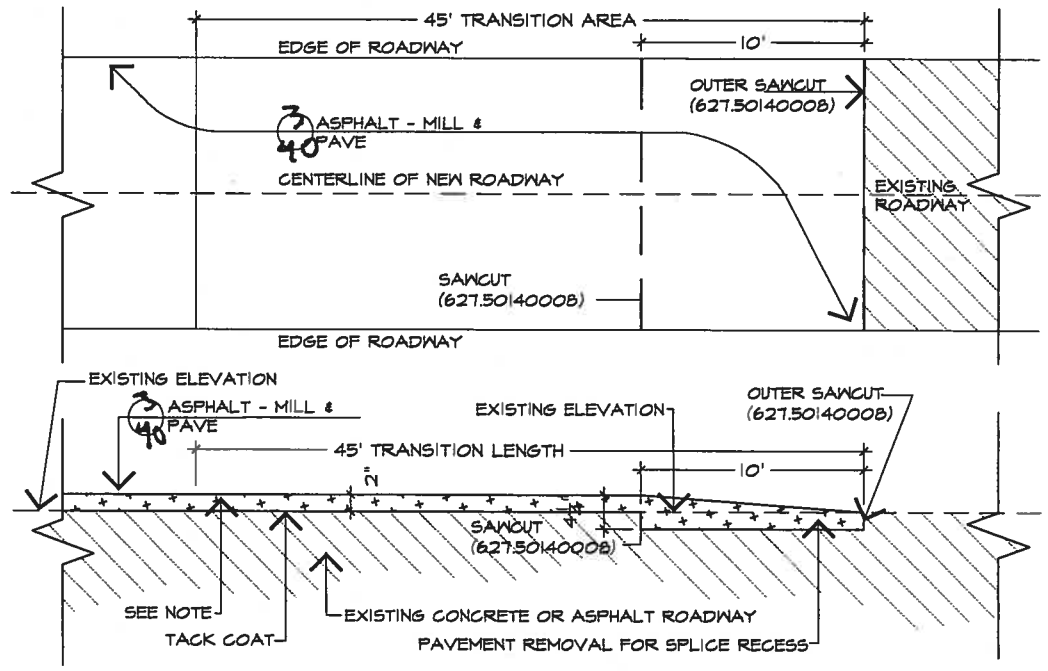
SCALE 1"=1'-0"



4/40 ASPHALT ROADWAY REPAIR 'B'

SIDE STREETS (VILLAGE ROADS)

SCALE 1"=1'-0"



NOTE: IN THE TRANSITION AREAS PAVEMENT COURSES OTHER THEN THE TOP COURSE SHALL BE FEATHERED OUT USING TOP COURSE OR OTHER APPROPRIATE MATERIAL

6/40 ASPHALT OVERLAY SPLICE

NOT TO SCALE

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

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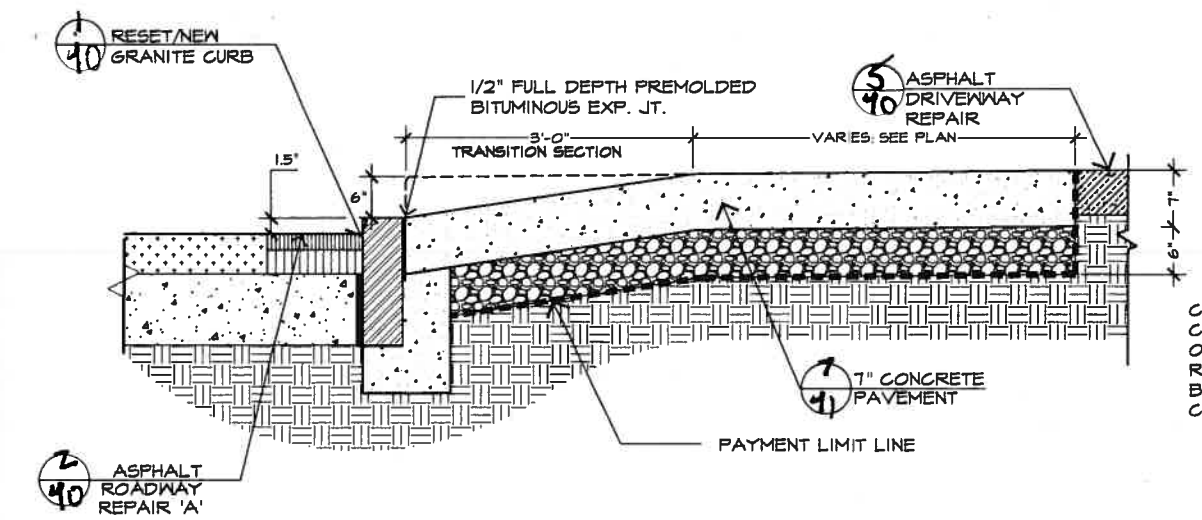
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

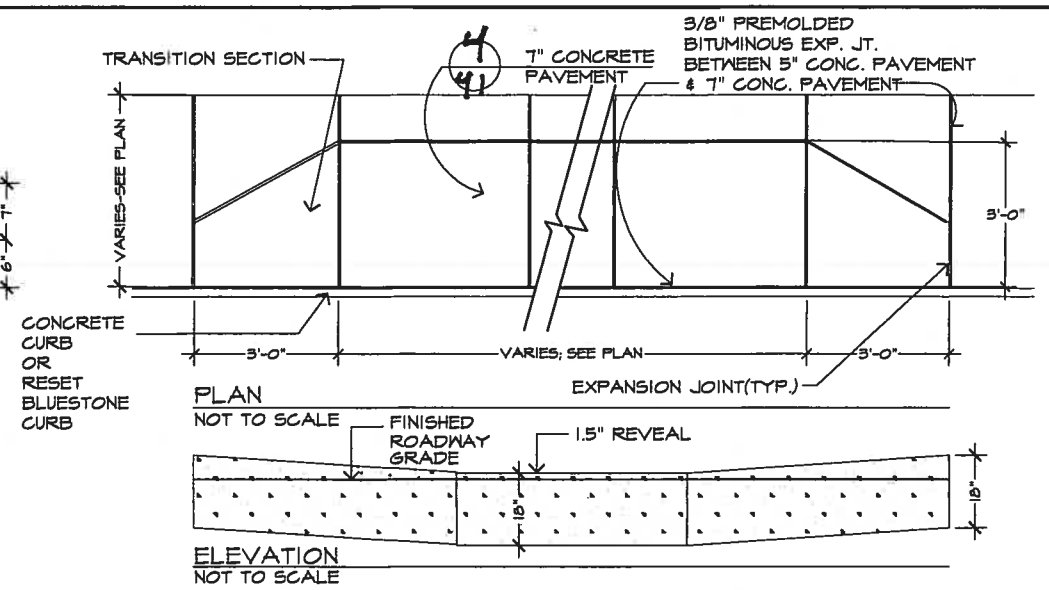
ASPHALT PAVEMENT DETAILS

CONTRACT NUMBER 16-526
SHEET NUMBER 40
SHEET NO. 40 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

X:\HIGHWAYS\ROADS\Warburton Ave (CR-75-1)\Contracts\16-526 Warburton Ave Resurfacing\drawing\DETAILS.dwg, 11/1/2017 3:27:33 PM, 1:2

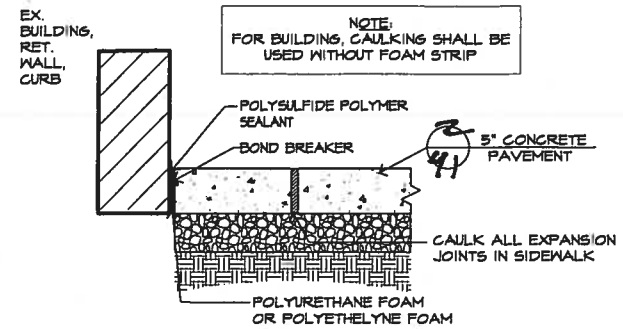


1/41 VEHICULAR DROP CURB



SCALE 1"=1'-0"

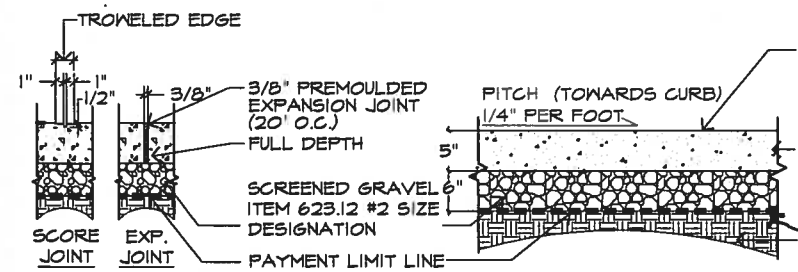
check scale.



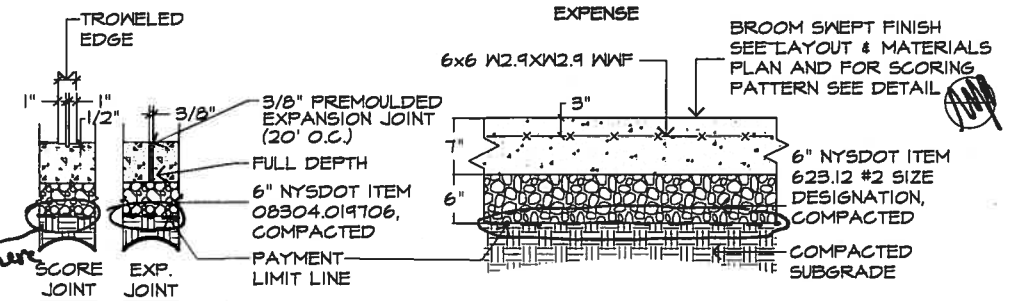
NOTE: CAULKING SHALL BE PAID FOR UNDER THE ITEM WHICH REQUIRED CAULKING. WHEN NEW SIDEWAK ABUTS AN EXISTING BUILDING, WALL OR CURB

5/41 EXPANSION JOINT & CAULKING

SCALE 1"=1'-0"



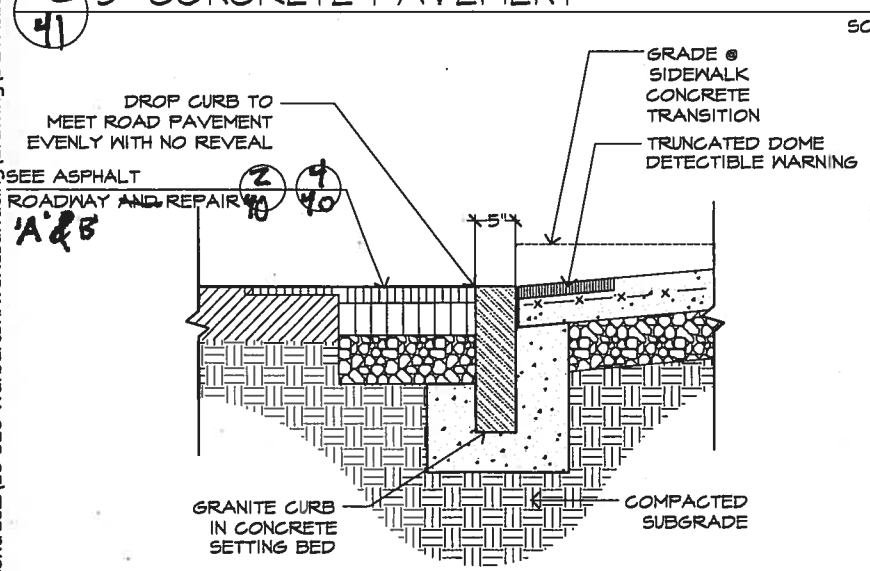
darken as shown here



NOTE: THE COST OF EXCAVATION SHALL BE PAID FOR UNDER UNCLASSIFIED EXCAVATION AND DISPOSAL ITEM 203.02

2/41 5" CONCRETE PAVEMENT

SCALE 1"=1'-0"

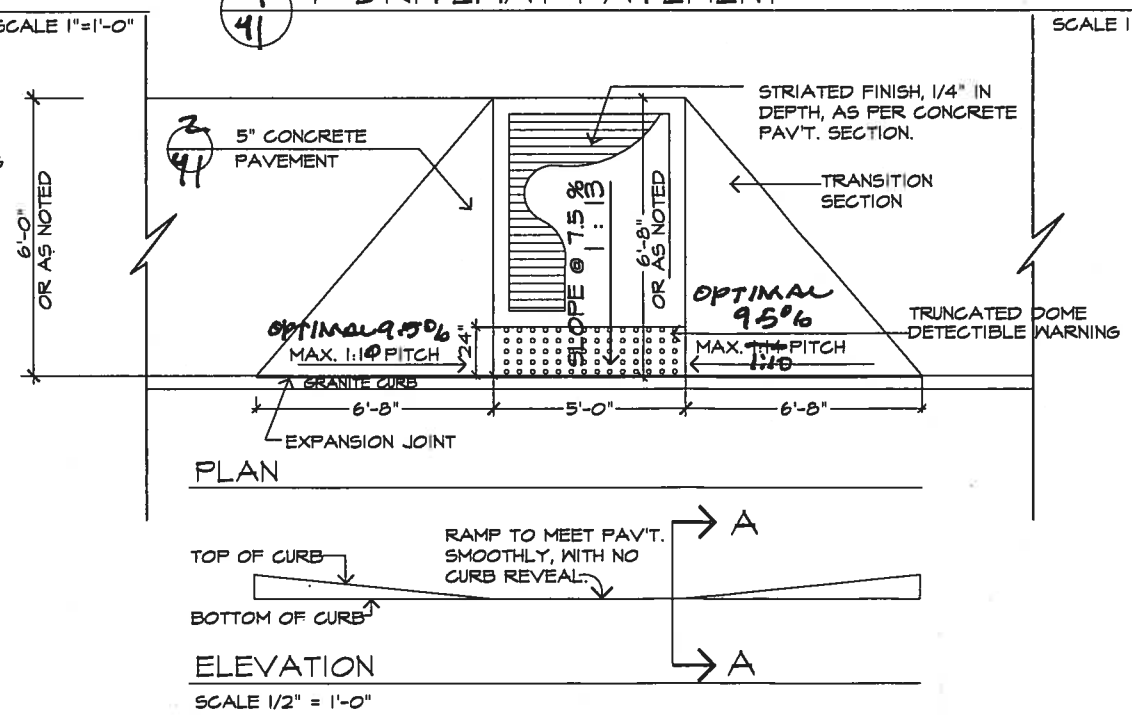


SECTION A-A

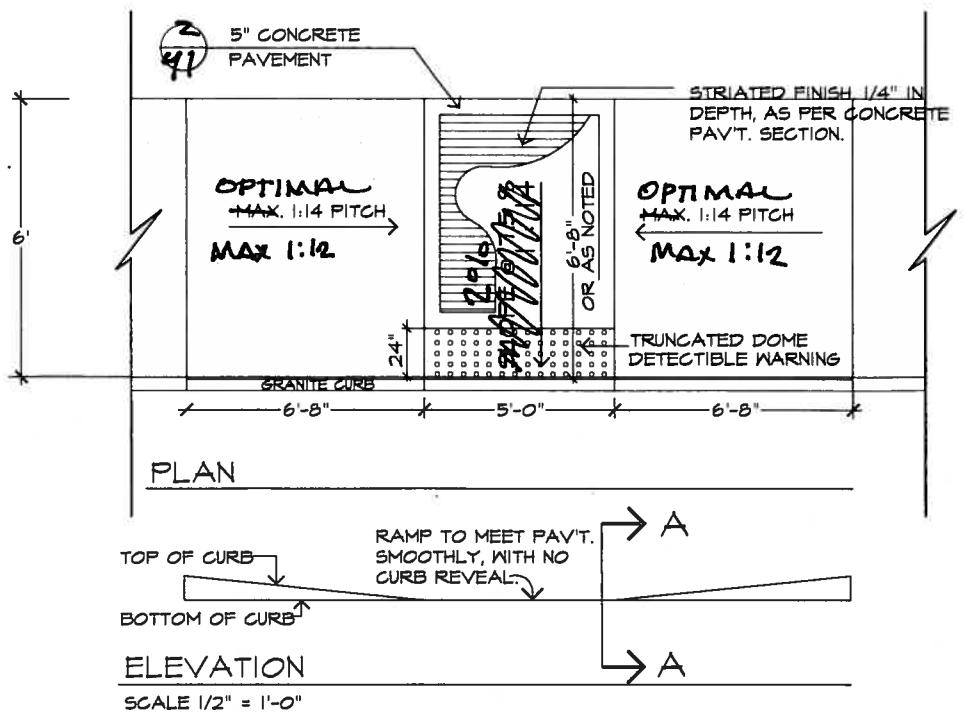
SCALE 1" = 1'-0"

4/41 7" DRIVEWAY PAVEMENT

SCALE 1"=1'-0"



SCALE 1/2" = 1'-0"



SCALE 1/2" = 1'-0"

3/41 PEDESTRIAN DROP CURB

NOTE: REFER TO LAYOUT AND MATERIALS PLANS FOR TYPE OF DROP CURB.

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

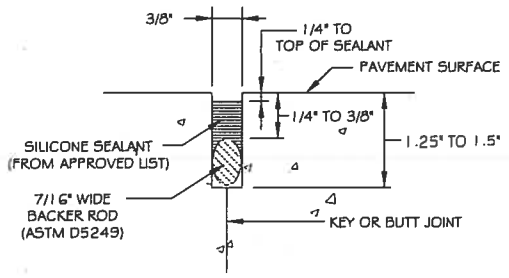
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

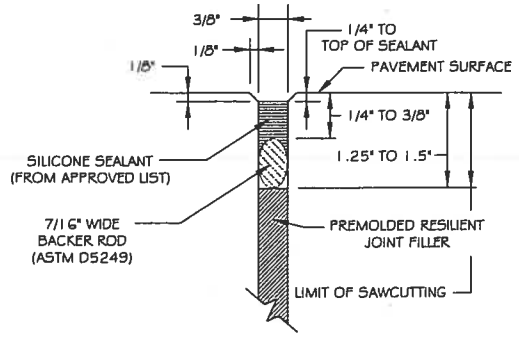
CONCRETE PAVEMENT DETAILS

CONTRACT NUMBER 16-526
SHEET NUMBER 41
SHEET NO. 41 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

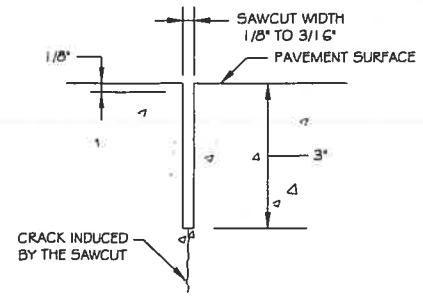
X:\HIGHWAYS\ROADS\Warburton Ave (CR-75-1)\Contracts\16-526 Warburton Ave Resurfacing\drawing\DETAILS.dwg, 11/1/2017 3:28:00 PM, 1:2



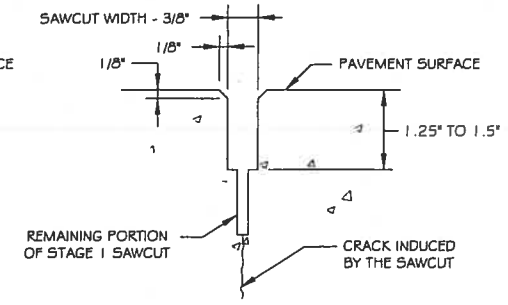
TYPICAL LONGITUDINAL JOINT



TYPICAL EXPANSION JOINT

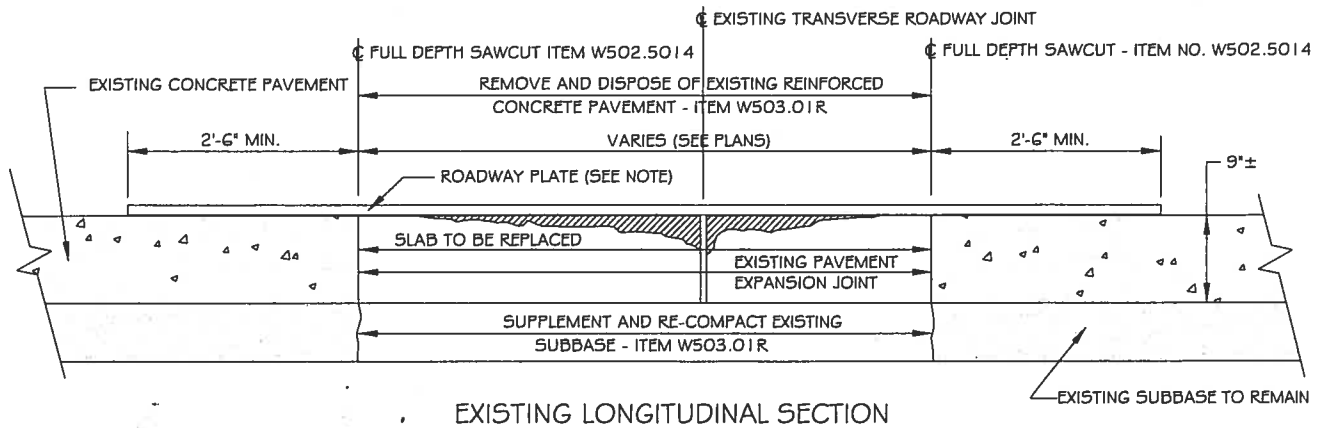


STAGE 1 SAWCUT

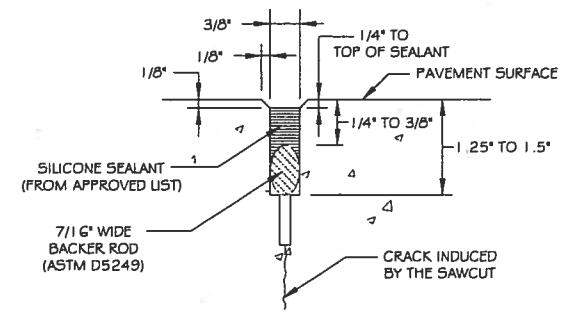


STAGE 2 SAWCUT

TWO STAGE SAWCUT
FOR TRANSVERSE CONTRACTION JOINTS



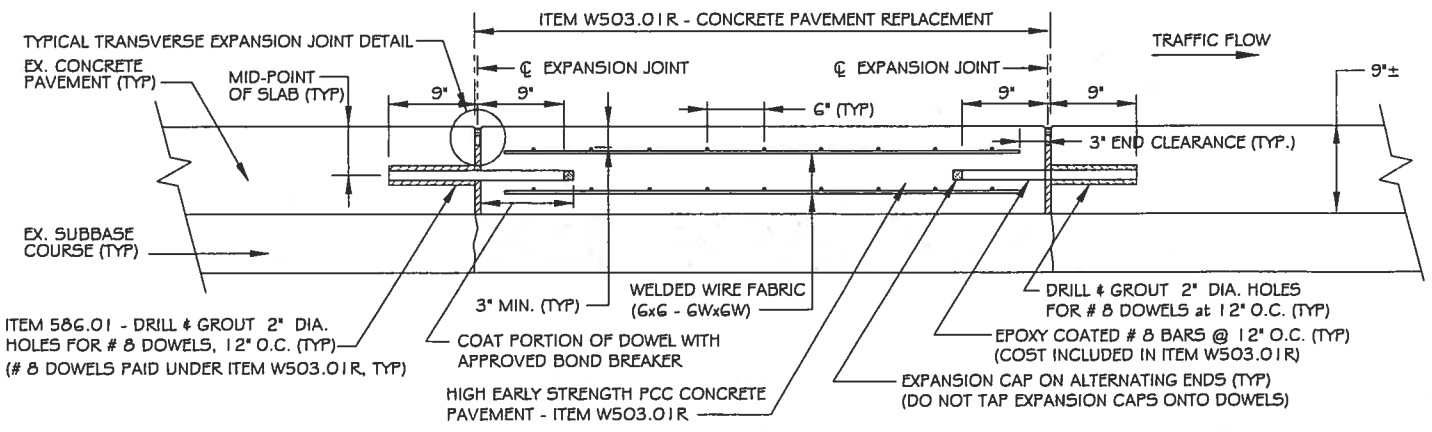
EXISTING LONGITUDINAL SECTION



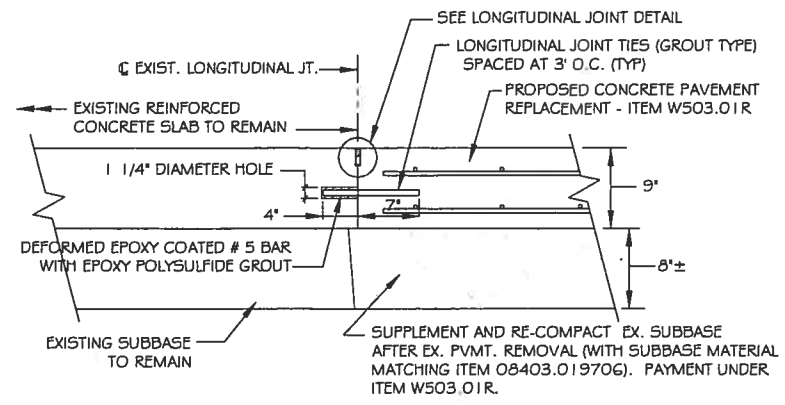
TYPICAL CONTRACTION JOINT

NOTE:

ROADWAY PLATES SHALL BE 1" THICK AND BE A36 (OR HIGHER STRENGTH) STEEL. EACH PLATE SHALL BE 8' LONG BY 10' WIDE MINIMUM. WHEN NEEDED EACH PLATE IS TO BE TIED DOWN TO THE ROADWAY BY THE USE OF RECESSED EXPANSION ANCHORS OR OTHER ACCEPTABLE METHODS AT THE FOUR CORNERS (MINIMUM). ANY HOLES MADE IN THE PAVEMENT SHALL BE FILLED WITH NON-SHRINK GROUT. PAYMENT FOR FURNISHING, PLACING AND MOVING ROADWAY PLATES; ANCHORS; DRILLING AND GROUTING ANCHOR HOLES; AND ALL INCIDENTALS SHALL BE PAID FOR UNDER ITEM WG19.012.



PROPOSED LONGITUDINAL SECTION



TYPICAL LONGITUDINAL JOINT
(NEW TO EXISTING PAVEMENT)

42 CONCRETE ROADWAY PAVEMENT (ITEM W503.01R)

(SEE NYSDOT STANDARD SHEETS FOR ADDITIONAL DETAILS ON LONGITUDINAL AND TRANSVERSE TIES)

NOT TO SCALE

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

CONCRETE REPAIR DETAILS

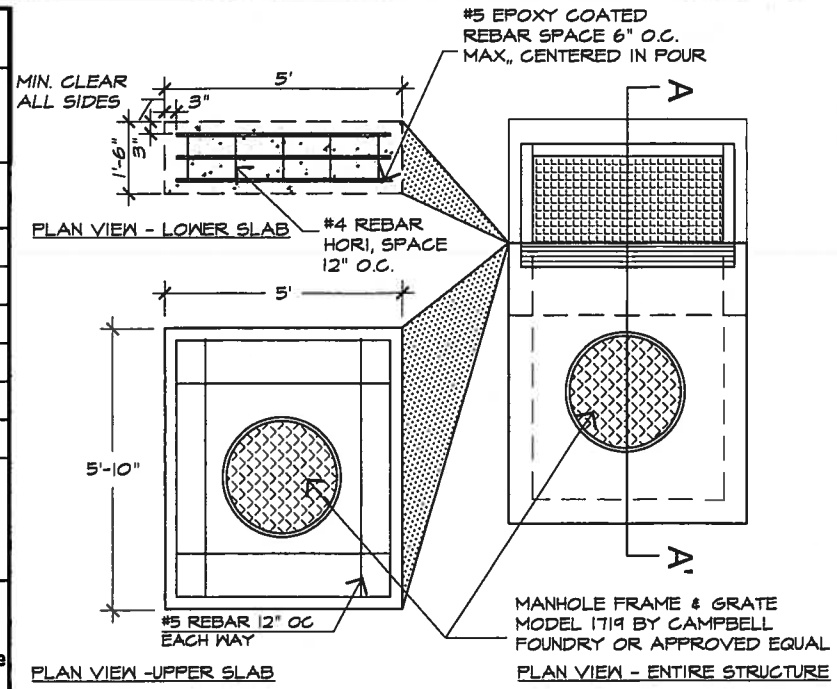
CONTRACT NUMBER 16-526
SHEET NUMBER 42
SHEET NO. 42 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO XX-XX-X-XX-0

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave Resurfacing\drawing\DETAILS.dwg, 11/1/2017 3:26:08 PM, 1:2

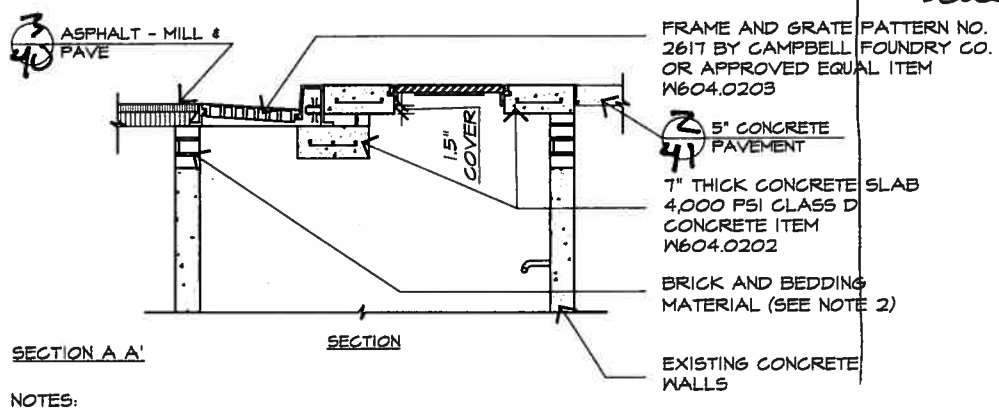
Existing Drain Inlet Drainage Chart						
	Cleaning (Item 621.04)	Work	Filter	Size of Frame	Size of Grate	Comments
CB #1	Yes	Replace Grate with Bicycle Safe Grate (Item W604.0203)		31 1/2" x 19 1/2"	18" x 30"	Model #
CB #2	Yes	Protect & Preserve		49 1/2" x 24"	47 1/2" x 22"	
CB #3	Yes	Protect & Preserve				
CB #4	Yes	Protect & Preserve				
CB #5	Yes	Protect & Preserve				
CB #6	Yes	Protect & Preserve				
CB #7	Yes	Protect & Preserve				
CB #8	Yes	Manhole Slab Replacement (Item W604.0202); Alter Drainage Structure - Replace Grate Item W604.0203		Manhole Model # 1719; Catch Basin Frame, Grate and Curb Piece Model #2617		
CB #9	Furnish and Install Replacement Drain Inlet with Frame, Grate and Curb Piece (Item W604.0201)					Catch Basin Frame, Grate and Curb Piece Model # 2617
CB #10	Yes	Protect & Preserve				
CB #11	Yes	Protect & Preserve				
CB #12	Yes	Protect & Preserve				
CB #13	Yes	Preserve & Protect				
CB #14	Yes	Preserve & Protect				Basin filled with debris
CB #15	Yes	Preserve & Protect				
CB #16	Yes	Preserve & Protect				
CB #17	Yes	Preserve & Protect				
CB #18	Yes	Preserve & Protect				
CB #19	Yes	Preserve & Protect				
CB #20	Yes	Preserve & Protect				
CB #21	Yes	Preserve & Protect				
CB #22	Yes	Preserve & Protect				
CB #23	Yes	Preserve & Protect				
CB #24	Yes	Replace Grate with Bicycle Safe Grate (Item W604.0203)				Model # 2617
CB #25	Yes	Replace Grate with Bicycle Safe Grate (Item W604.0203)				Model # 2617

Notes: All drain inlets to be cleaned, ~~including existing filter~~. Model numbers refer to Campbell Foundry, or approved equal. New Catch Basins Chart on Sheet 26

→ more over



← realign text to fit on sheet better



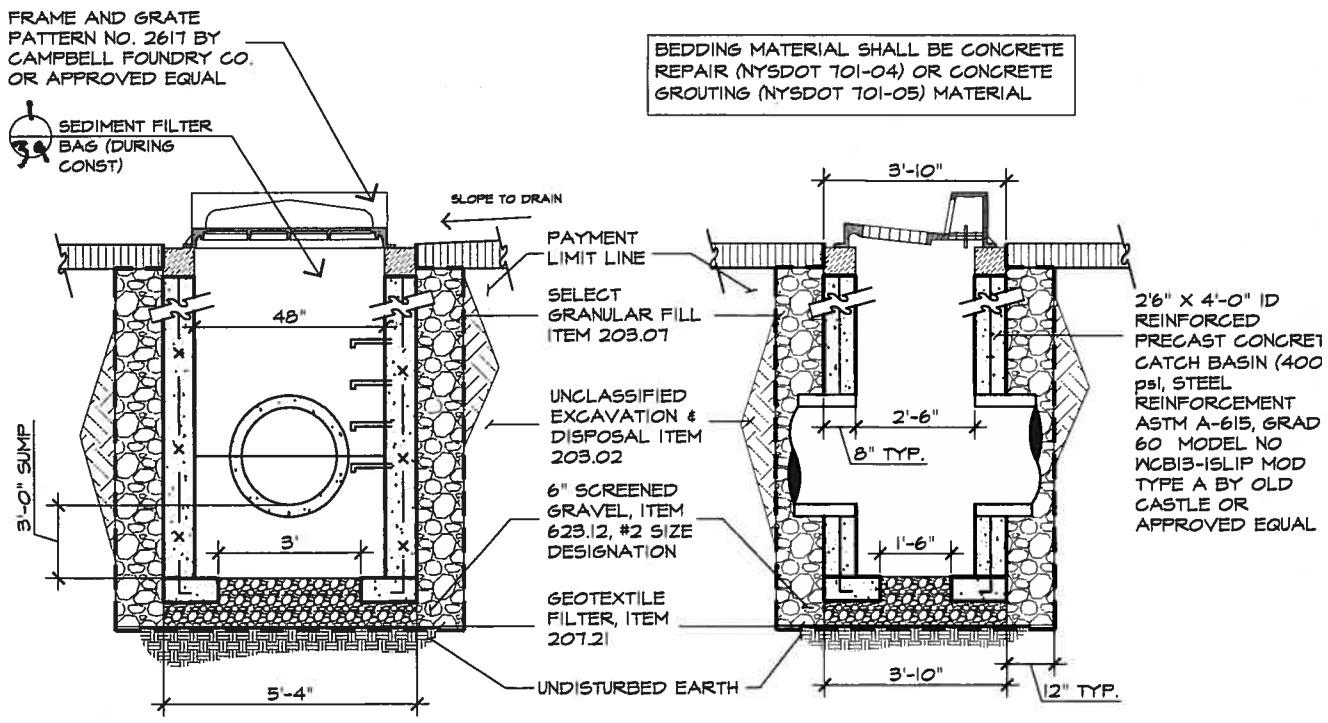
NOTES:
1. CONTRACTOR TO VERIFY EXISTING DRAINAGE STRUCTURE DIMENSIONS IN THE FIELD.
2. BEDDING MATERIAL SHALL BE CONCRETE REPAIR (NYSDOT 701-04) OR CONCRETE GROUTING (NYSDOT 701-05) MATERIAL.

1/43 MANHOLE SLAB REPLACEMENT - CB # 8

ITEM W604.0203

SCALE 1/2" = 1'-0"

BEDDING MATERIAL SHALL BE CONCRETE REPAIR (NYSDOT 701-04) OR CONCRETE GROUTING (NYSDOT 701-05) MATERIAL



NOTES:
1. CATCH BASIN AND FRAME AND GRATE SHALL MEET REQUIREMENTS FOR H20 LOADING.
2. CATCH BASIN STRUCTURE, FRAME AND GRATE BRICKWORK AND GROUTING SHALL BE INCLUDED IN ITEM W604.0201
3. ALL NEW CATCH BASINS SHALL BE FITTED WITH A FILTER. SEE THE DRAINAGE CHART FOR SPECIFICS.

2/43 NEW CATCH BASIN WITH CURB PIECE (W604.0201)

SCALE 1/2" = 1'-0

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

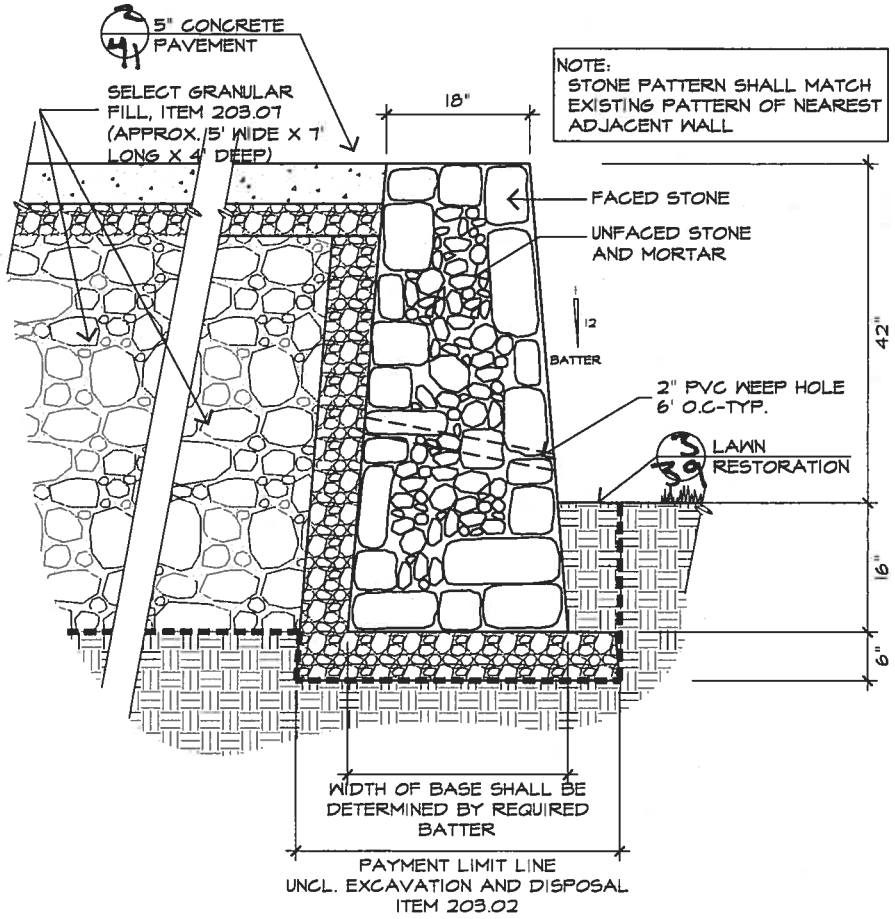
CONTRACTOR: NAME ____ SIGNATURE ____ TITLE ____ DATE ____
PROJECT COORDINATOR: NAME ____ SIGNATURE ____ TITLE ____ DATE ____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

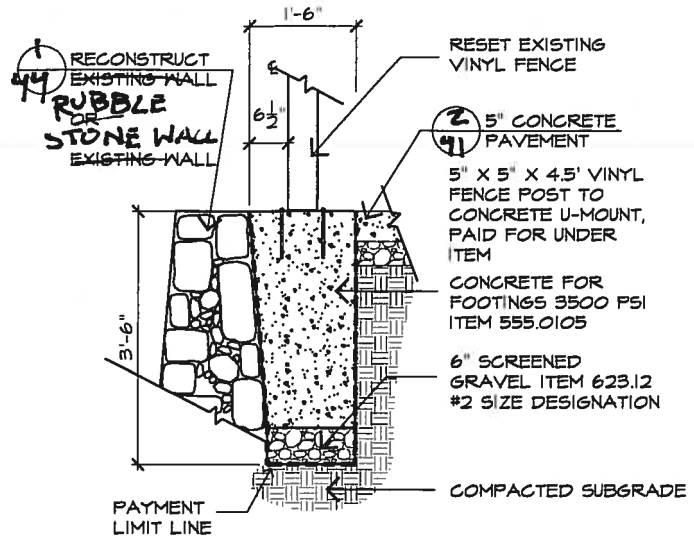
DRAINAGE DETAILS

CONTRACT NUMBER 16-526
SHEET NUMBER 43
SHEET NO. 43 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0



1/44 RECONSTRUCT RUBBLE STONE WALL

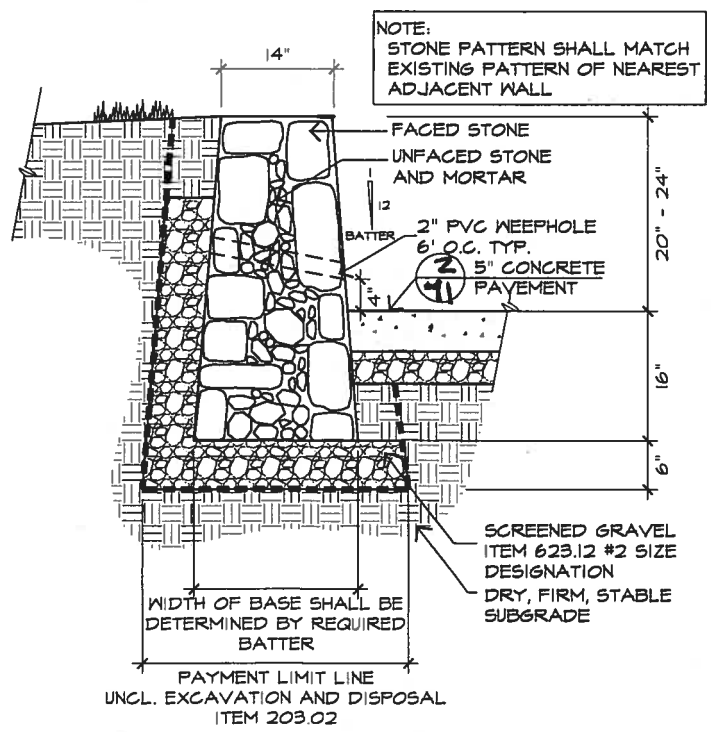
(ITEM W560.0401) SCALE 1"=1'-0"



NOTE: THERE ARE EIGHT (8) POSTS WHICH REQUIRE FOOTINGS

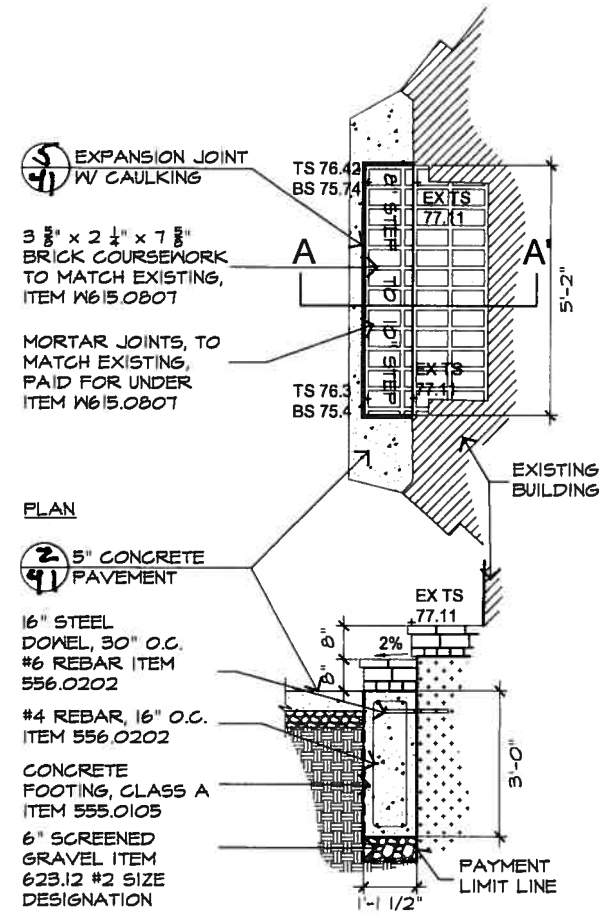
2/44 RESET EXISTING FENCE

SCALE 3/4" = 1'-0"



3/44 NEW RUBBLE STONE WALL

(ITEM W560.0401) SCALE 1"=1'-0"



4/44 BRICK STEP DETAIL

SCALE: 1/2" = 1'-0"

line up.

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

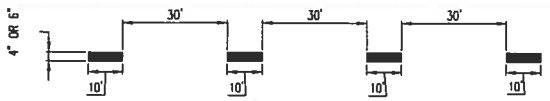
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #751)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

MISCELLANEOUS DETAILS I

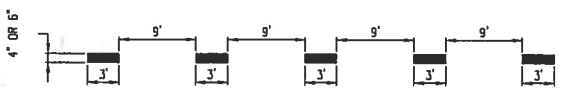
CONTRACT NUMBER 16-526
SHEET NUMBER 44
SHEET NO. 44 OF 49
SCALE AS SHOWN
DATE 11/1/2017
DPW FILE NO. XX-XX-X-XX-0
RI N

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 WarburtonAveResurfacing\drawing\DETAILS.dwg, 11/1/2017 3:28:24 PM, 1:2

NORMAL LANE LINE (xLL)NORMAL EDGE LINE (xEL)

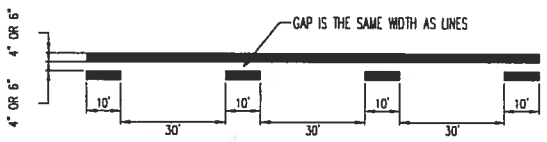


NORMAL BROKEN LANE LINE (xBLL)

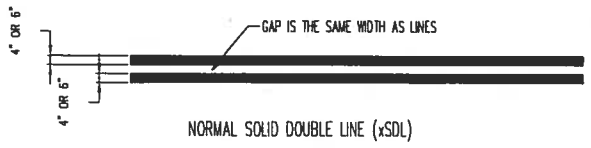


NORMAL DOTTED LANE LINE (xDLL)

NORMAL DOTTED EXTENSION LINE (xDEL)



NORMAL SOLID LINE AND NORMAL BROKEN LINE (ySBL)
(ONLY ALLOWED IN YELLOW)



NORMAL SOLID DOUBLE LINE (xSDL)

PAVEMENT MARKING LINE NOTES:

L1. Normal pavement marking lines shall be 6" on freeways and expressways and on ramps to and from freeways and expressways, and where specified in the contract documents. at all other locations normal pavement marking lines shall be 4". Wide pavement marking lines shall be twice as wide as normal lines on the same highway. Channelizing lines are the same width as wide lines.

L2. Pavement marking line codes may be shown on the plans. designations:

"w"=white "y"=yellow "wide"=wide

1/45 TYPICAL STRIPING LAYOUT

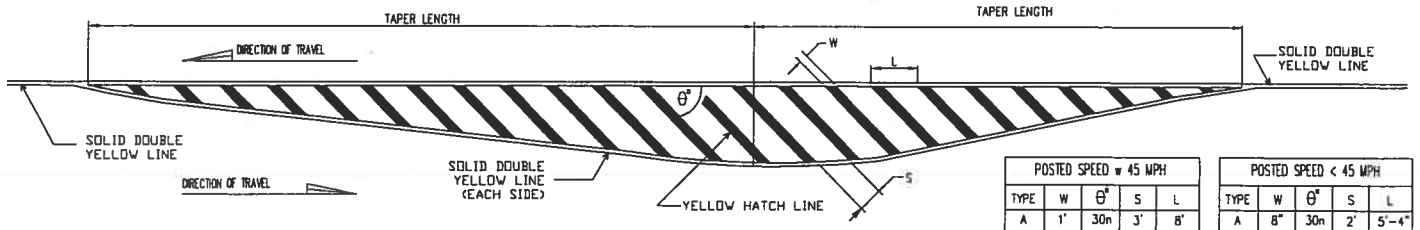
NOT TO SCALE

GENERAL PAVEMENT MARKING NOTES:

1. All pavement markings shall be placed in accordance with the MUTCD and NYS supplement.
2. Edge lines shall be yellow on the left side and white on the right side in the direction of travel unless otherwise shown on the plans. If the curb offset is less than 2'-0", no edge line shall be applied adjacent to curbs unless otherwise shown on the plans. Edge lines shall be provided at the curb adjacent to raised islands (see detail).
3. Where markings normally follow a pavement joint, single line markings shall be placed along one side of the joint. Double line markings shall straddle the joint. Lane lines on roadways which are more than two lanes wide and have longitudinal joints between adjacent lanes, shall be placed on the side of the joint which will obtain optimum lane widths.
4. At the junction of single and double line markings which follow a pavement joint, the single line shall be an extension of either of the double lines and not the space between them. At the junction of single and double line markings which do not follow a pavement joint, the single line may be aligned with the center of the double line marking or with either line of the double line.
5. All dimensions and the placement of arrows, symbols, and text shown are typical and shall apply unless otherwise indicated in the contract documents.
6. The engineer will review and approve any changes to the pavement marking plans prior to final installation. changes shall be submitted two weeks prior to installation.
7. Item numbers shall be as follows:

White Lines, Hatch, No Parking, Stop Bars, Crosswalk: White Epoxy Reflectorized Pavement Stripes – 20 Mils (Wet Night Visibility Spheres) Item 685.07200110
Yellow Lines and Hatch: Yellow Epoxy Reflectorized Pavement Stripes – 20 Mils (Wet Night Visibility Spheres) Item 685.07200610
Letters: White Epoxy Reflectorized Pavement Letters – 20 Mils (Wet Night Visibility Spheres) Item 685.07200210
Symbols: White Epoxy Reflectorized Pavement Symbols – 20 Mils (Wet Night Visibility Spheres) Item 685.07200310

8. See NYSDOT Standard Sheets 685 series for additional information.



CROSS HATCHED ISLAND DETAIL
SHOWN FOR RADIUS TAPERSTRAIGHT TAPER STRIPING SIMILAR

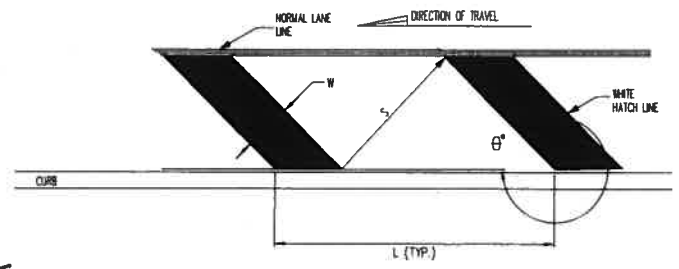
POSTED SPEED w 45 MPH				
TYPE	W	θ°	S	L
A	1'	30n	3'	8'
B	1'	35n	3'	7'
C	2'	45n	6'	11'-4"

POSTED SPEED < 45 MPH				
TYPE	W	θ°	S	L
A	8"	30n	2'	5'-4"
B	1'	35n	3'	7'
C	2'	45n	6'	11'-4"

CROSS HATCH LINE DIMENSIONS
NOTE: TYPE SHALL BE AS PER PLAN. DEFAULT VALUE IS TYPE C UNLESS OTHERWISE SHOWN.

4/46 CROSS HATCHED ISLAND DETAIL

NOT TO SCALE

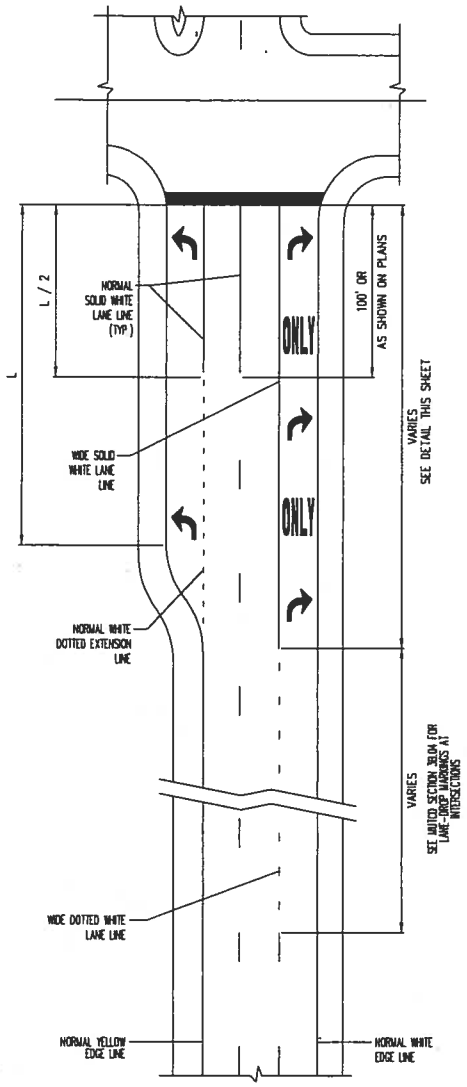


POSTED SPEED < 45 MPH				
TYPE	W	θ°	S	L
A	8"	30n	2'	5'-4"
B	1'	35n	3'	7'
C	2'	45n	6'	11'-4"

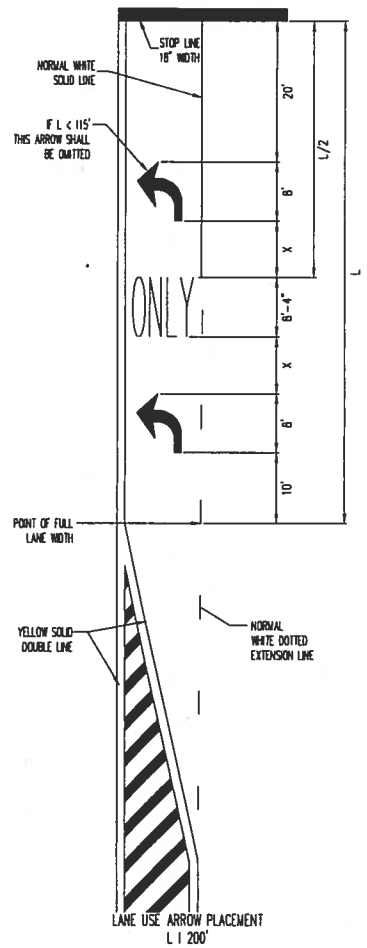
CROSS HATCH LINE DIMENSIONS
NOTE: TYPE SHALL BE AS PER PLAN. DEFAULT VALUE IS TYPE C UNLESS OTHERWISE SHOWN.

5/46 FIRE STATION HATCH STRIPING

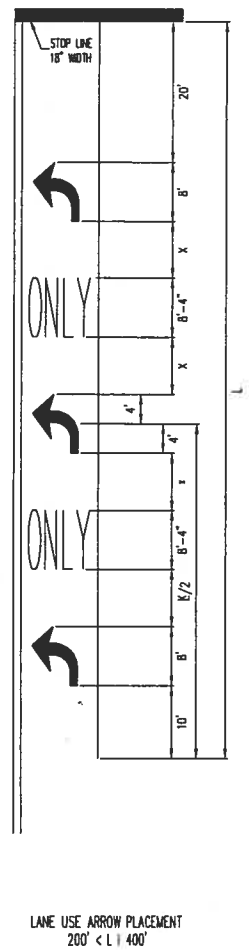
NOT TO SCALE



LANE DROP AT INTERSECTION



LANE USE ARROW PLACEMENT
L ≤ 200'



LANE USE ARROW PLACEMENT
200' < L ≤ 400'

SYMBOL SPACING NOTES:

S1. Spacing between arrows and "only" (x) is 32' min. and 80' max. Lower speed roads should have closer spacing than higher speed roads.

S2. If L < 75' or L > 400', refer to contract documents or regional traffic safety and mobility group for guidance on spacing of arrows and "only".

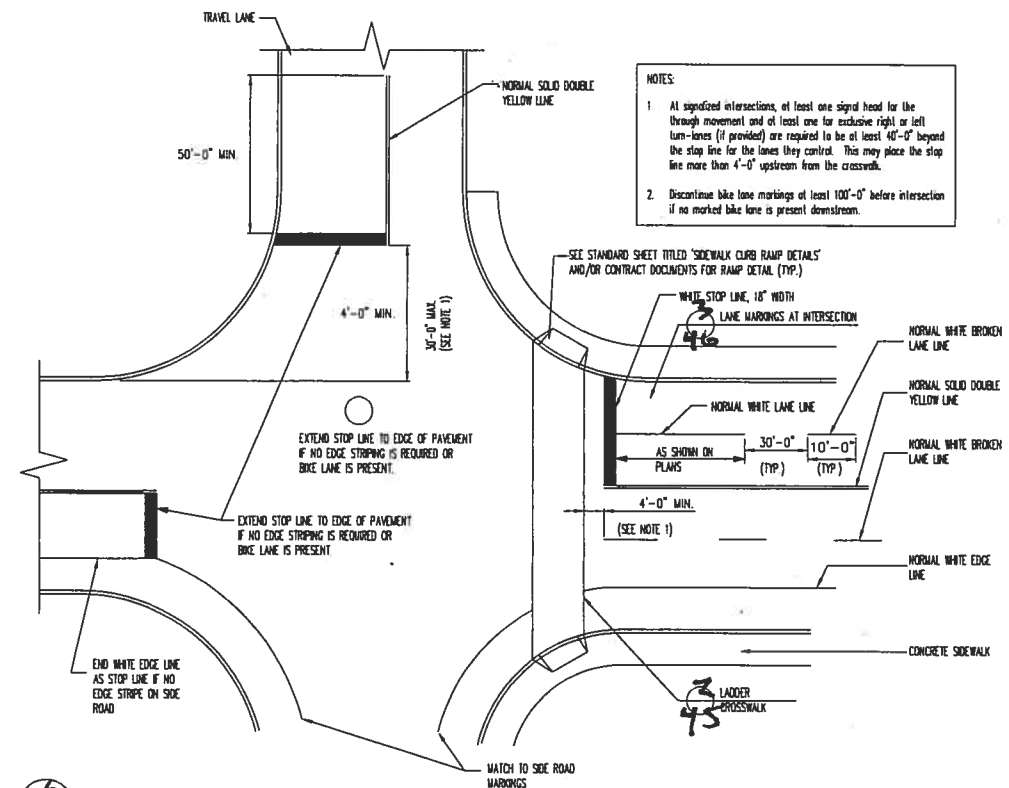
S3. On an uncontrolled approach (no stop sign, yield sign, or traffic signal) omit stop line.

S4. If intersection lane control signs (eg. r3-5) are not provided for the lane, the "only" markings shall be deleted.

S5. Arrows and "only" to be centered in the lane.

3/46 LANE MARKINGS AT INTERSECTION

NOT TO SCALE

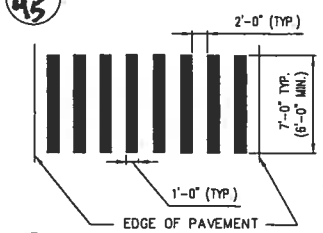


NOTES:

1. At signalized intersections, at least one signal head for the through movement and at least one for exclusive right or left turn-lanes (if provided) are required to be at least 40'-0" beyond the stop line for the lanes they control. This may place the stop line more than 4'-0" upstream from the crosswalk.
2. Discontinue bike lane markings at least 100'-0" before intersection if no marked bike lane is present downstream.

6/46 TYPICAL INTERSECTION MARKINGS

NOT TO SCALE



NOTES:
1. All crosswalk markings shall be white.
2. All crosswalks shall have the longitudinal lines parallel to the lane lines.

2/45 LADDER CROSSWALK
BARTYPE 'L'

NOT TO SCALE

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

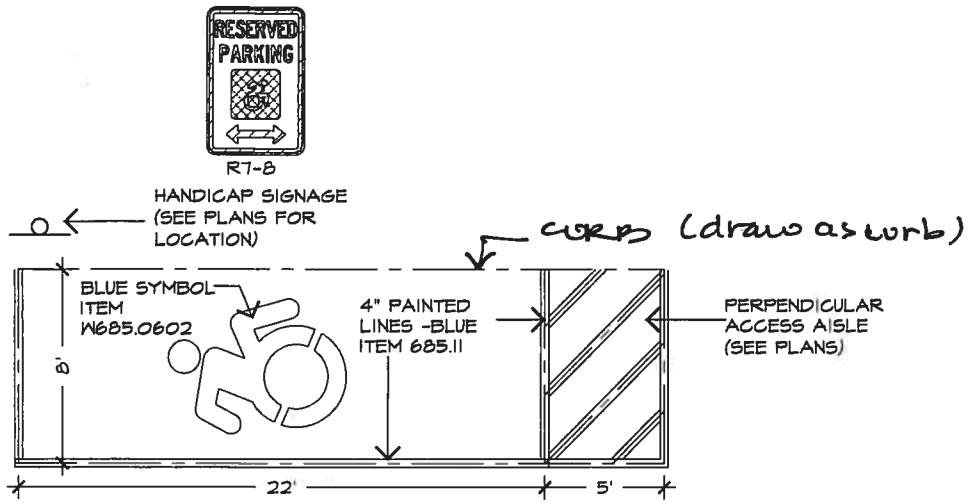
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75i)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

PAVEMENT MARKING DETAILS

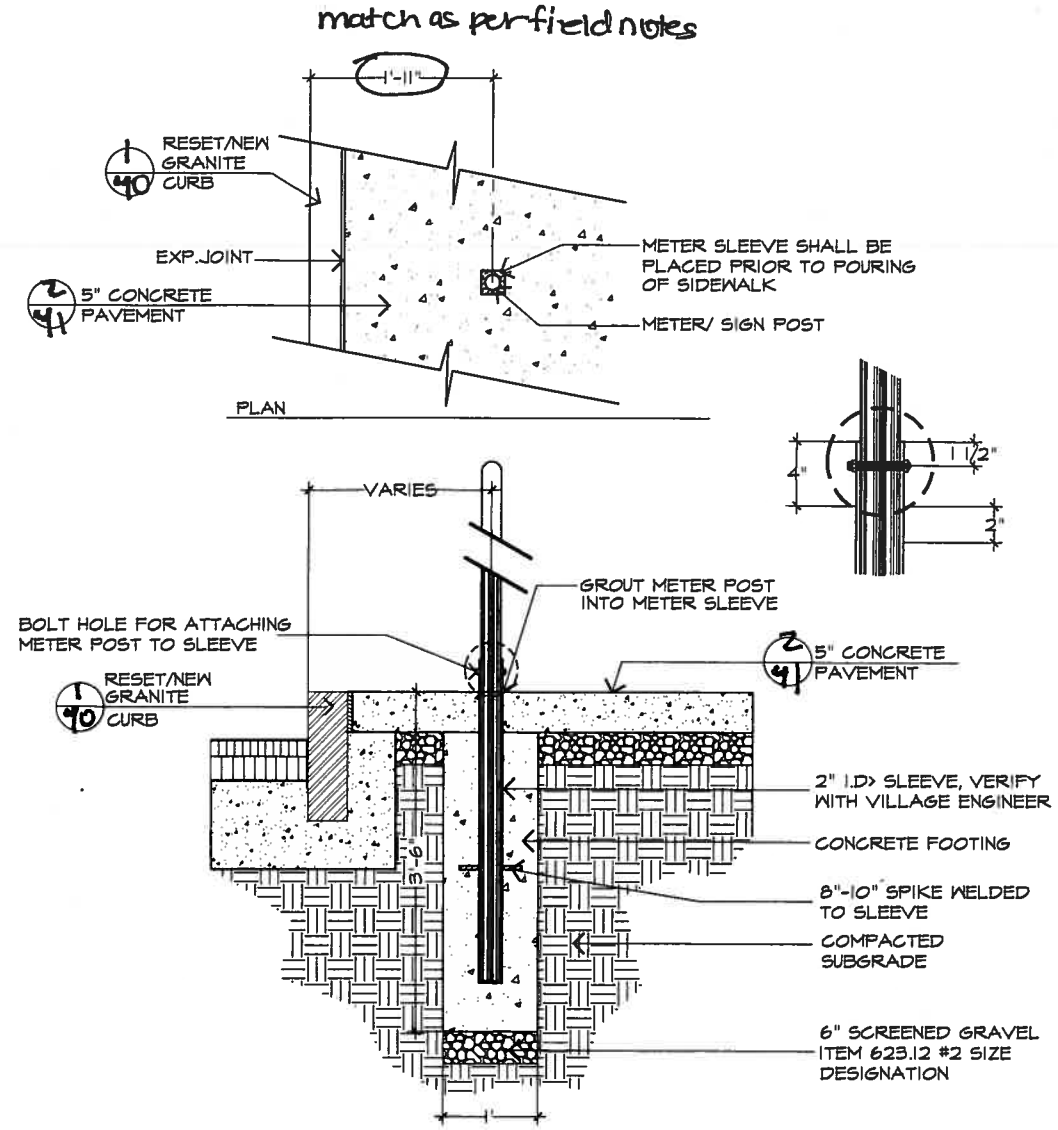
CONTRACT NUMBER 16-526
SHEET NUMBER 45
SHEET NO. 45 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave Resurfacing\drawing\DETAILS.dwg, 11/1/2017 3:28:32 PM, 1:2



1/46 HANDICAP PARALLEL PARKING LAYOUT

1/4" = 1'-0"

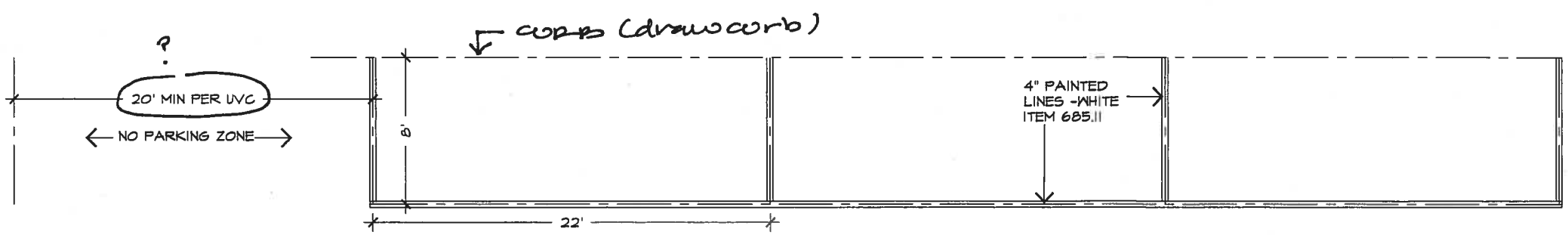


NOTE: 1) REVIEW LOCATION OF METER WITH VILLAGE
2) METER SLEEVE SHALL BE DRILLED AND PROVIDED WITH A TAMPER PROOF BOLT

3/46 ~~METER FOOTING~~ RESET METER

ITEM NO. W634.0602

SCALE 1"=1'-0"



2/46 PARALLEL PARKING LAYOUT

1/4" = 1'-0"

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION
☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR
NAME
SIGNATURE
TITLE DATE

PROJECT COORDINATOR
NAME
SIGNATURE
TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

MISCELLANEOUS DETAILS II

CONTRACT NUMBER 16-526
SHEET NUMBER 46
SHEET NO. 46 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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SIGNAGE TEXT LEGEND

SIGN TEXT	MUTCD NO.	SHEETING/ REFLECTIVITY	COLOR
SPEED LIMIT 30	R2-1 (NATIONAL) 24" X 30" QTY:4	ASTM TYPE III (CLASS B) HIGH INTENSITY	BLACK, WHITE
RESERVED PARKING	R7-8 (NATIONAL) 12" X 18" QTY: 3	ASTM TYPE III (CLASS B) HIGH INTENSITY	BLUE, GREEN, WHITE
STOP	W1-1 (NATIONAL) 30" X 30" QTY: 6	ASTM TYPE III (CLASS B) HIGH INTENSITY; POSTBRITE SIDE REFLECTIVE PANEL	RED, WHITE; COLOR: RED
	R3-2 (NATIONAL) 12" X 36" QTY: 1	ASTM TYPE III (CLASS B) HIGH INTENSITY	RED, BLACK, YELLOW
RIGHT LANE MUST TURN RIGHT	R3-7R (NATIONAL) 36" X 36" QTY: 1	ASTM TYPE III (CLASS B) HIGH INTENSITY	BLACK, WHITE
	R3-4 (NATIONAL) 36" X 36" QTY: 1	ASTM TYPE III (CLASS B) HIGH INTENSITY	RED, BLACK, YELLOW

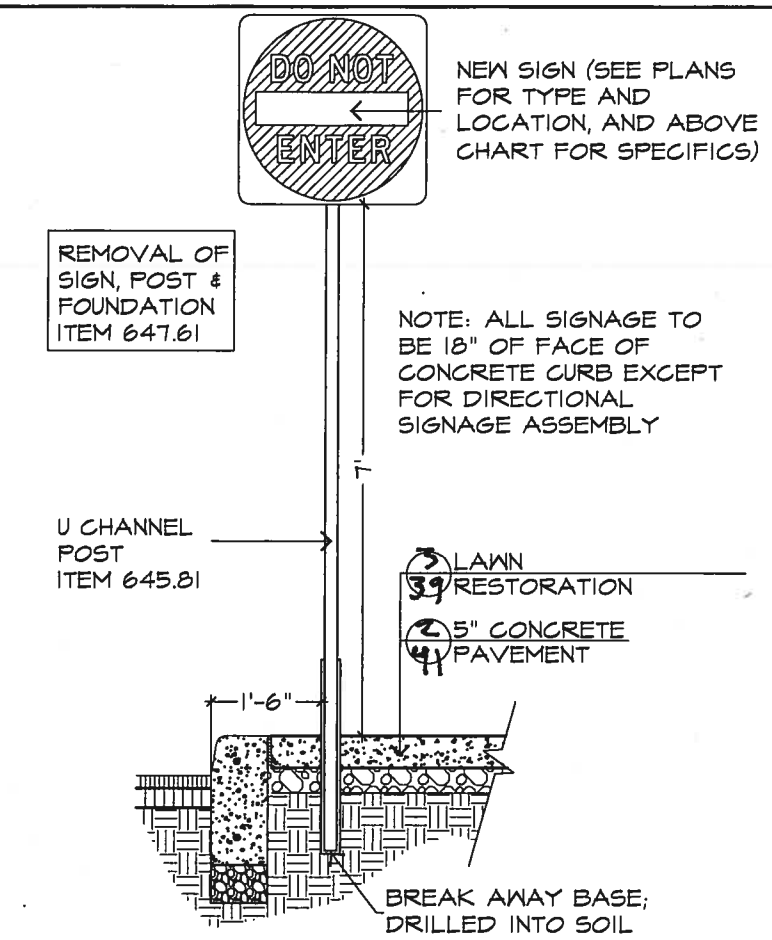
SIGN TEXT	MUTCD NO.	SHEETING/ REFLECTIVITY	COLOR
HERE TO	R1-5 (NATIONAL) 36" X 36" QTY:4	ASTM TYPE III (CLASS B) HIGH INTENSITY; POSTBRITE SIDE REFLECTIVE PANEL	RED, BLACK, WHITE; COLOR: RED
DEAD END	W14-1 (NATIONAL) 30" X 30" QTY: 1	ASTM TYPE III (CLASS B) HIGH INTENSITY	BLACK, YELLOW
	W1-2L (NATIONAL) 30" X 30" QTY: 1	ASTM TYPE III (CLASS B) HIGH INTENSITY; POSTBRITE SIDE REFLECTIVE PANEL	BLACK, YELLOW; COLOR: YELLOW
	W1-8R (NATIONAL) 18" X 24" QTY: 3	ASTM TYPE III (CLASS B) HIGH INTENSITY; POSTBRITE SIDE REFLECTIVE PANEL	BLACK, YELLOW; COLOR: YELLOW
	W1-8L (NATIONAL) 18" X 24" QTY: 3	ASTM TYPE III (CLASS B) HIGH INTENSITY; POSTBRITE SIDE REFLECTIVE PANEL	BLACK, YELLOW; COLOR: YELLOW

verify.

Signage & striping

Signage Notes

1. Signs in this legend refer to signs that are subject to regulation through the federal and state MUTCD. See this page as well as the striping plans for additional signage.
2. On a post with two signs, the distance from bottom of lower sign to finished grade shall be 6'. All other signs mounted with only one sign shall have a distance from bottom of sign to finished grade of 7'.
3. Sign panel & assemblies shall be paid for under 645.5101. Posts shall be paid for under Item 645.81. Retroreflective Sign Post Strips shall be paid for under Item 645.81020003.
4. All signs shall be mounted at 90° to the curbline with the exception of parking sign.
5. Parking signs shall be mounted at 30° to the curbline facing the direction of traffic
6. Posts shall be mounted so that the signs will be mounted no closer than 2'-0" from the face of the curb.
7. Chevron signs shall be mounted no higher then 5' over the travel surface.



REMOVE AND REPLACE SIGNAGE

NOT TO SCALE

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR: NAME ____ SIGNATURE ____ TITLE ____ DATE ____

PROJECT COORDINATOR: NAME ____ SIGNATURE ____ TITLE ____ DATE ____

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

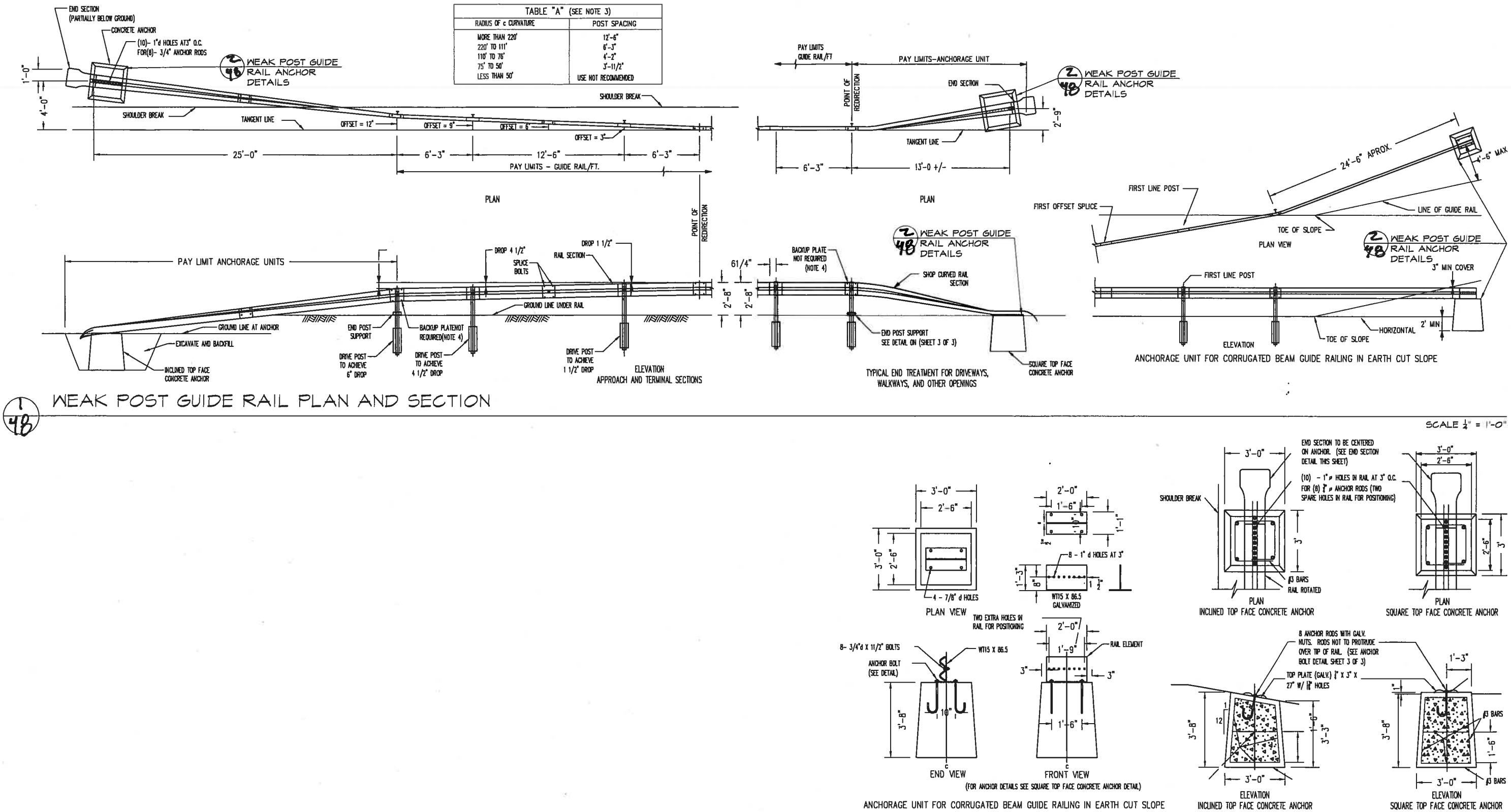
MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75I)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

SIGNAGE & TRAFFIC DETAILS

CONTRACT NUMBER 16-526
SHEET NUMBER 47
SHEET NO. 47 OF 49
SCALE AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

X:\HIGHWAYS\ROADS\Warburton Ave (CR 75-1)\Contracts\16-526 Warburton Ave Resurfacing\drawing\DETAILS.dwg, 11/1/2017 3:26:49 PM, 1:2

TABLE "A" (SEE NOTE 3)	
RADIUS OF c CURVATURE	POST SPACING
MORE THAN 220'	12'-6"
220' TO 111'	6'-3"
110' TO 76'	4'-2"
75' TO 50'	3'-11/2"
LESS THAN 50'	USE NOT RECOMMENDED



1/48 WEAK POST GUIDE RAIL PLAN AND SECTION

SCALE 1/4" = 1'-0"

ANCHORAGE UNIT FOR CORRUGATED BEAM GUIDE RAILING IN EARTH CUT SLOPE

2/48 WEAK POST GUIDE RAIL ANCHOR DETAILS

SCALE 1/4" = 1'-0"

IN CHARGE OF A. VENTAROLA
CHECKED BY S. LOPANE
MADE BY K. SITZMAN

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

☐ AS BUILT – CHANGES AS NOTED
☐ AS BUILT – NO CHANGES

CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE DATE	TITLE DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

MISCELLANEOUS ROADWAY IMPROVEMENTS
WARBURTON AVENUE (C.R. #75)
VILLAGE OF HASTINGS ON HUDSON, NEW YORK

GUIDE RAIL & FENCING DETAILS

CONTRACT NUMBER 16-526
SHEET NUMBER 48
SHEET NO. 48 OF 49
SCALE: AS SHOWN
DATE: 11/1/2017
DPW FILE NO. XX-XX-X-XX-0

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