REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

CITY OF ITHACA
108 East Green Street, Ithaca, New York 14850-5690

OFFICE OF THE CITY ENGINEER
Telephone: 607/274-6530 Fax: 607/274-6587

CITY OF ITHACA-DEPARTMENT OF PUBLIC WORKS

OLD ELMIRA ROAD COMPLETE STREETS PROJECT

APPROVED BY:

DATE:

DRAWING BY BHH

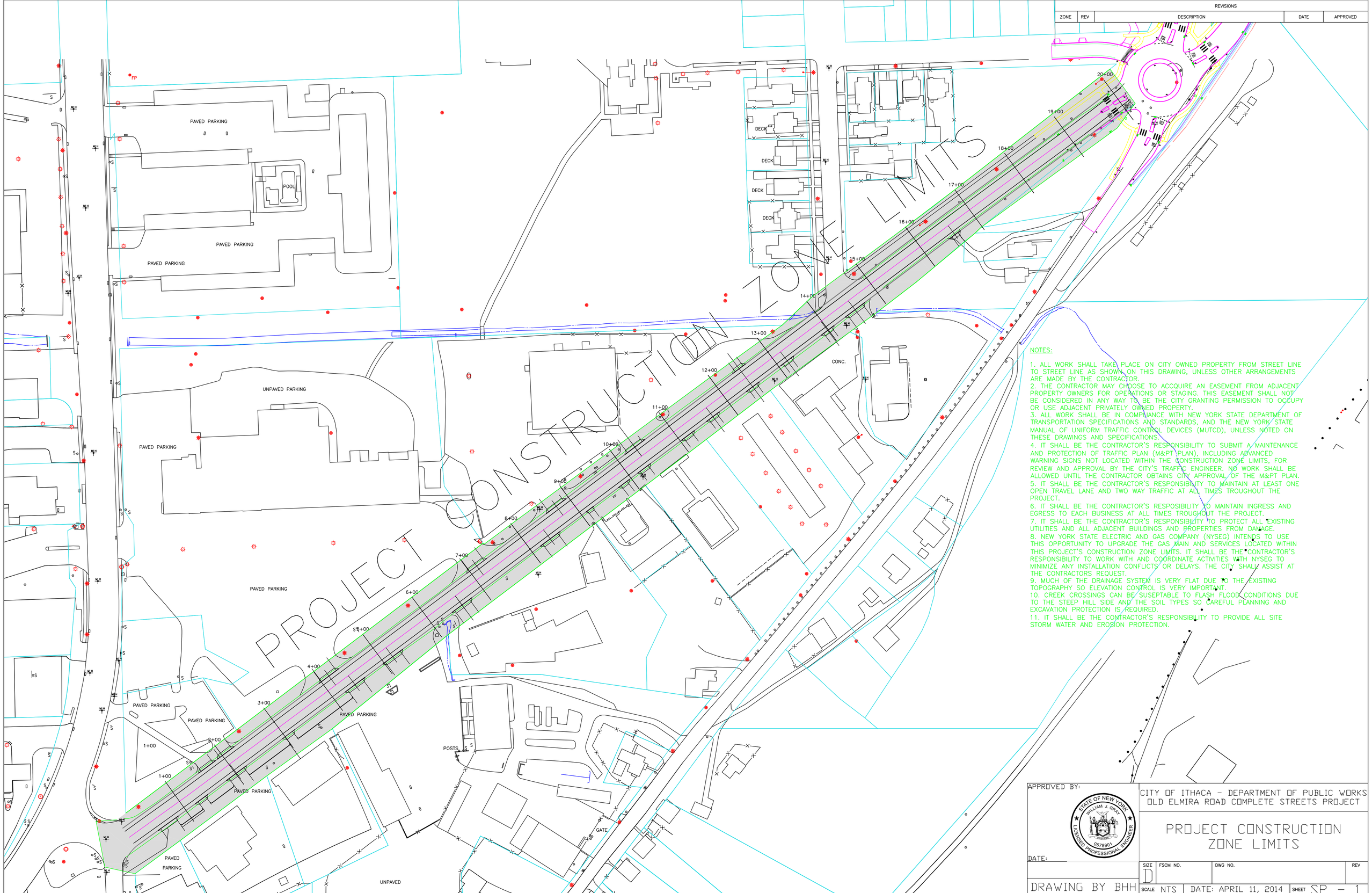
CITY OF ITHACA - DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD
COMPLETE STREETS PROJECT

SIZE	FSCM NO.	DWG NO.	REV
D			

SCALE NTS | DATE: APRIL 11, 2014 | SHEET COVER SHEET

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



NOTES:

1. ALL WORK SHALL TAKE PLACE ON CITY OWNED PROPERTY FROM STREET LINE TO STREET LINE AS SHOWN ON THIS DRAWING, UNLESS OTHER ARRANGEMENTS ARE MADE BY THE CONTRACTOR.
2. THE CONTRACTOR MAY CHOOSE TO ACCQUIRE AN EASEMENT FROM ADJACENT PROPERTY OWNERS FOR OPERATIONS OR STAGING. THIS EASEMENT SHALL NOT BE CONSIDERED IN ANY WAY TO BE THE CITY GRANTING PERMISSION TO OCCUPY OR USE ADJACENT PRIVATELY OWNED PROPERTY.
3. ALL WORK SHALL BE IN COMPLIANCE WITH NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS, AND THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), UNLESS NOTED ON THESE DRAWINGS AND SPECIFICATIONS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN (M&PT PLAN), INCLUDING ADVANCED WARNING SIGNS NOT LOCATED WITHIN THE CONSTRUCTION ZONE LIMITS, FOR REVIEW AND APPROVAL BY THE CITY'S TRAFFIC ENGINEER. NO WORK SHALL BE ALLOWED UNTIL THE CONTRACTOR OBTAINS CITY APPROVAL OF THE M&PT PLAN.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AT LEAST ONE OPEN TRAVEL LANE AND TWO WAY TRAFFIC AT ALL TIMES TROUGHOUT THE PROJECT.
6. IT SHALL BE THE CONTRACTOR'S RESPOSIBILITY TO MAINTAIN INGRESS AND EGRESS TO EACH BUSINESS AT ALL TIMES TROUGHOUT THE PROJECT.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES AND ALL ADJACENT BUILDINGS AND PROPERTIES FROM DAMAGE.
8. NEW YORK STATE ELECTRIC AND GAS COMPANY (NYSEG) INTENDS TO USE THIS OPPORTUNITY TO UPGRADE THE GAS MAIN AND SERVICES LOCATED WITHIN THIS PROJECT'S CONSTRUCTION ZONE LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK WITH AND COORDINATE ACTIVITIES WITH NYSEG TO MINIMIZE ANY INSTALLATION CONFLICTS OR DELAYS. THE CITY SHALL ASSIST AT THE CONTRACTORS REQUEST.
9. MUCH OF THE DRAINAGE SYSTEM IS VERY FLAT DUE TO THE EXISTING TOPOGRAPHY SO ELEVATION CONTROL IS VERY IMPORTANT.
10. CREEK CROSSINGS CAN BE SUSEPTABLE TO FLASH FLOOD CONDITIONS DUE TO THE STEEP HILL SIDE AND THE SOIL TYPES SO CAREFUL PLANNING AND EXCAVATION PROTECTION IS REQUIRED.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SITE STORM WATER AND EROSION PROTECTION.

APPROVED BY:

STATE OF NEW YORK
WILLIAM J. GRAY
LICENSED PROFESSIONAL ENGINEER
0578901

DATE:

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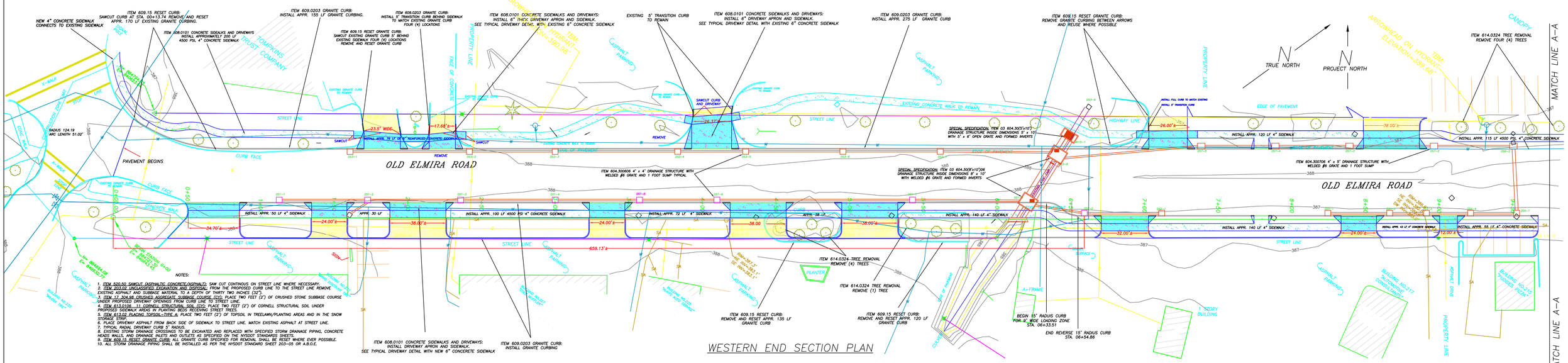
CITY OF ITHACA - DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

PROJECT CONSTRUCTION ZONE LIMITS

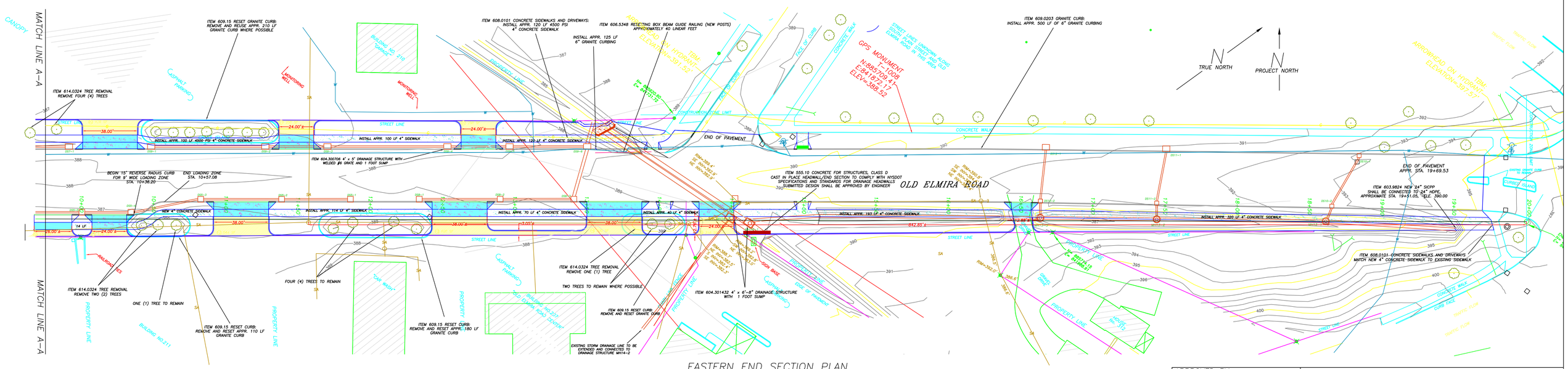
SIZE	FSCM NO.	DWG NO.	REV
D			

SCALE NTS | DATE: APRIL 11, 2014 | SHEET SP – 1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



WESTERN END SECTION PLAN



EASTERN END SECTION PLAN

APPROVED BY:

DATE:

STATE OF NEW YORK · WILLIAM J. GRAY · 0578901 · LICENSED PROFESSIONAL ENGINEER

CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD SITE PLAN AND LAYOUT

SIZE	FSCM NO.	DWG NO.	REV
D			

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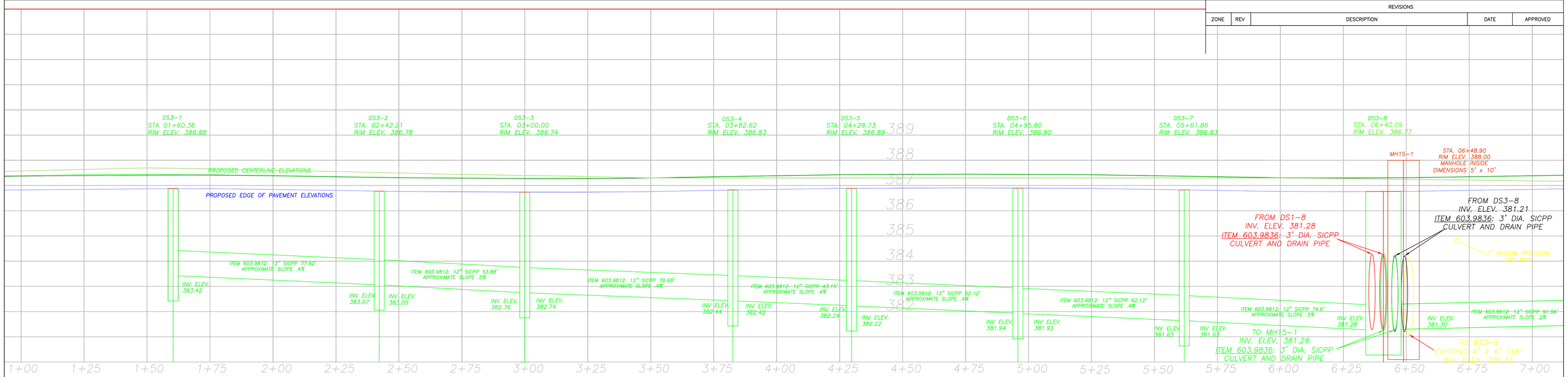
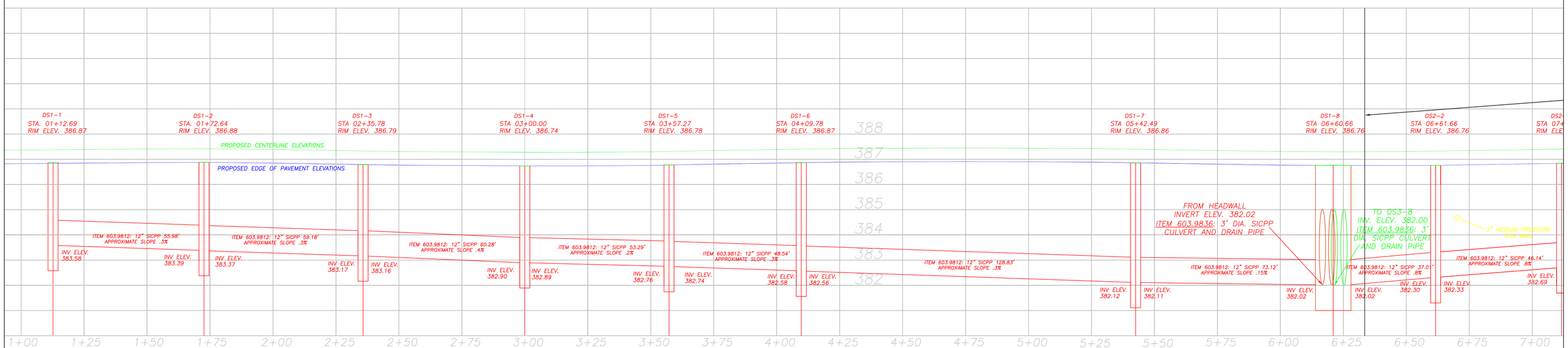
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



STORM DRAINAGE PROFILE NORTH



	PVI	PVT/PVC	PVI	PVT/PVC	PVI	PVT/PVC	PVI	PVT/PVC
	VC1		VC2		VC3		VC4	
LENGTH:	150'		150		200		100	
PVC ELEV.:	387.35	STA. 00+75.00	387.35	STA. 02+25.00	387.35	STA. 03+75.00	387.35	STA. 05+75.00
PVI ELEV.:	387.50	STA. 01+50.00	387.20	STA. 03+00.00	387.55	STA. 04+75.00	387.25	STA. 06+25.00
PVT ELEV.:	387.35	STA. 02+25.00	387.35	STA. 03+75.00	387.35	STA. 05+75.00	387.35	STA. 06+75.00

CENTERLINE VERTICAL CURVE INFORMATION

STORM DRAINAGE PROFILE SOUTH

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DATE:

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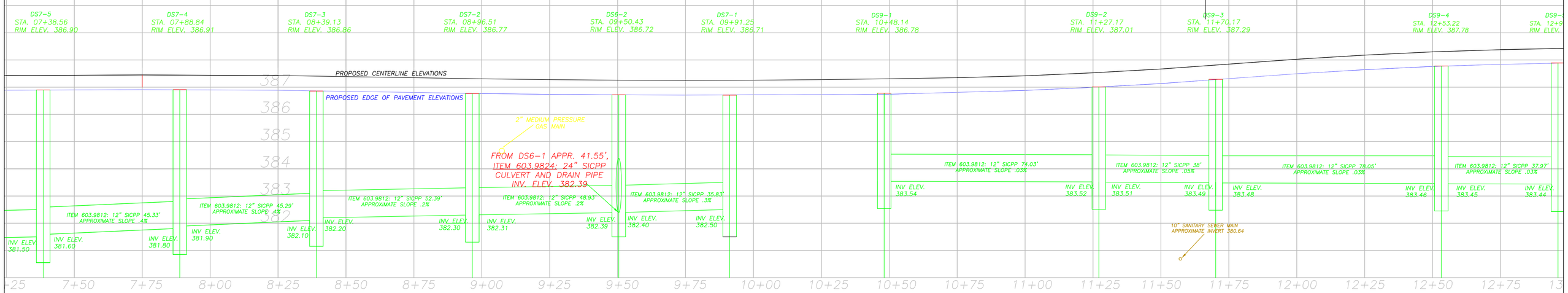
CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD DRAINAGE PROFILE

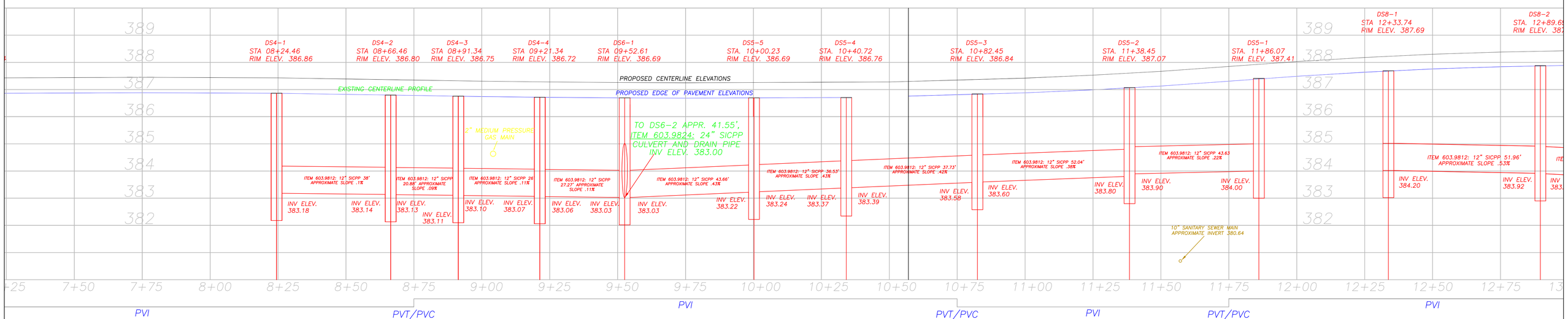
SIZE	FSCM NO.	DWG NO.	REV

SCALE NTS | DATE: APRIL 21, 2014 | SHEET DP-1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



NORTH SIDE DRAINAGE



SOUTH SIDE DRAINAGE

VC5			VC6			VC7			VC8		
LENGTH:	200		LENGTH:	200		LENGTH:	100		LENGTH:	150	
PVC ELEV.:	387.35	STA. 06+75.00	PVC ELEV.:	387.35	STA. 08+75.00	PVC ELEV.:	387.35	STA. 10+75.00	PVC ELEV.:	387.85	STA. 11+75.00
PVI ELEV.:	387.55	STA. 07+75.00	PVI ELEV.:	387.15	STA. 09+75.00	PVI ELEV.:	387.45	STA. 11+25.00	PVI ELEV.:	388.45	STA. 12+50.00
PVT ELEV.:	387.35	STA. 08+75.00	PVT ELEV.:	387.35	STA. 10+75.00	PVT ELEV.:	387.85	STA. 11+75.00	PVT ELEV.:	388.45	STA. 13.25.00

CENTER LINE PROFILE: PROPOSED VS EXISTING

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DATE:

CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD DRAINAGE PROFILE
DRAINAGE CROSSINGS

SIZE	FSCM NO.	DWG NO.	REV

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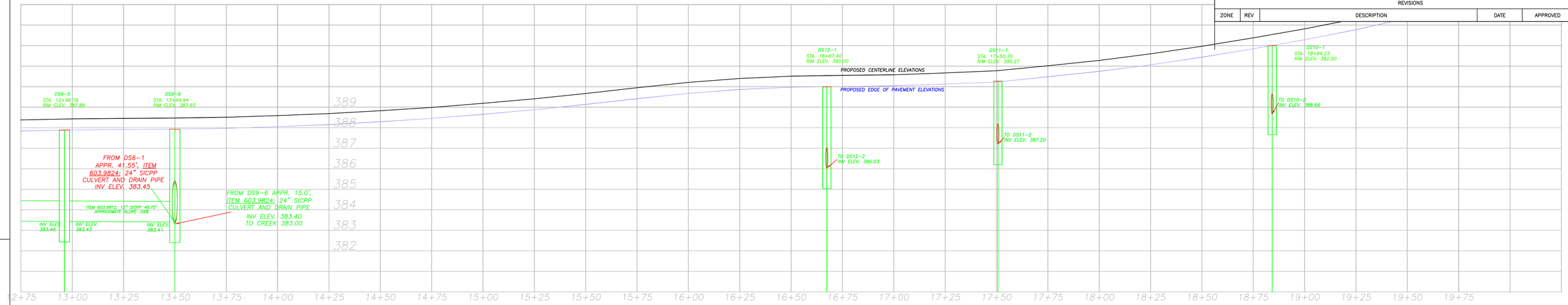
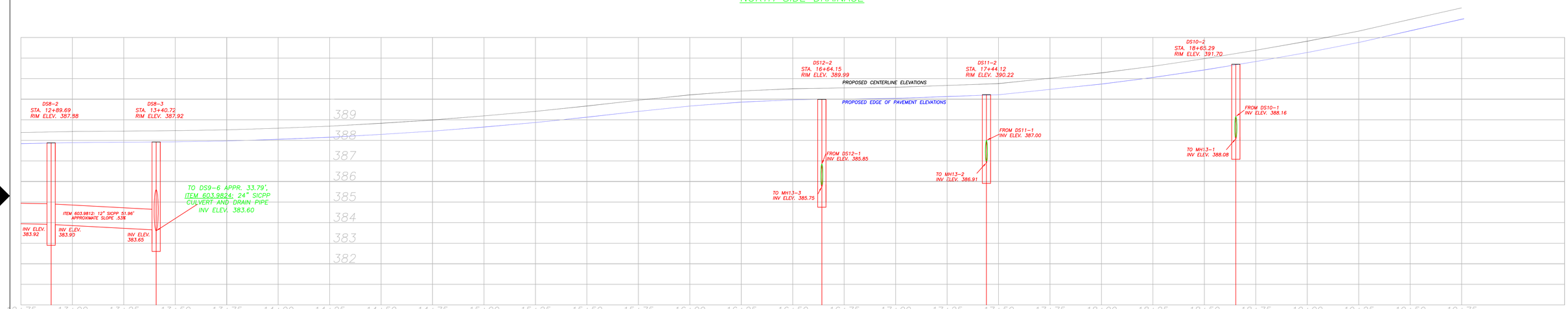
SCALE NTS | DATE: APRIL 11, 2014 | SHEET DP-2

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



NORTH SIDE DRAINAGE



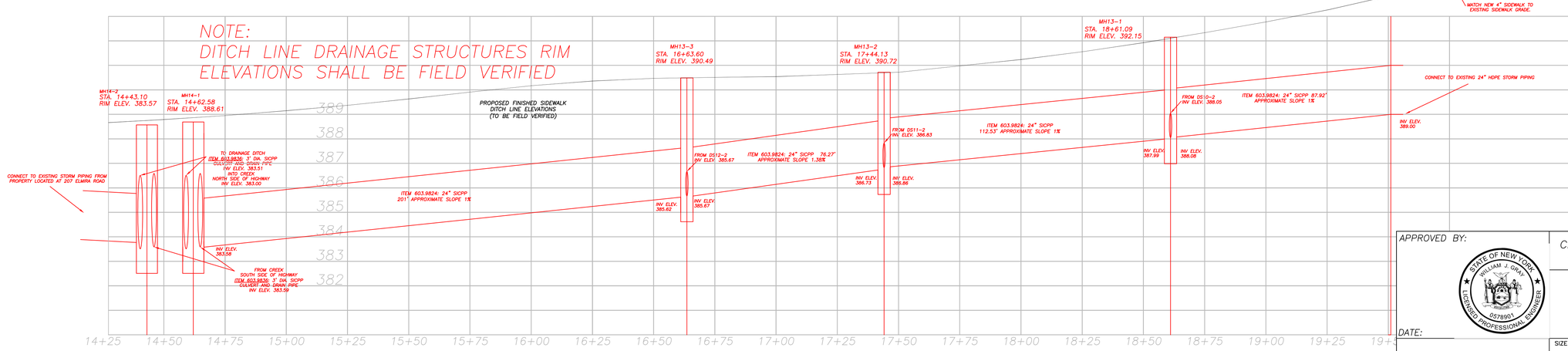
PVT/PVC PVI VC9 PVT/PVC PVI VC10 PVT/PVC PVI VC11 PVT/PVC PVI VC12 PVT

	VC9		VC10		VC11		VC12	
LENGTH:	250		100		150		100	
PVC ELEV.:	388.45	STA. 13+25.00	389.95	STA. 15+75.00	390.55	STA. 16+75.00	391.60	STA. 18+25.00
PVI ELEV.:	388.45	STA. 14+50.00	390.55	STA. 16+25.00	390.55	STA. 17+50.00	392.30	STA. 18+75.00
PVT ELEV.:	389.95	STA. 15+75.00	390.55	STA. 16+75.00	391.60	STA. 18+25.00	393.31	STA. 19+25.00

MATCH NEW 4" SIDEWALK TO EXISTING SIDEWALK GRADE.

SOUTH SIDE DRAINAGE

NOTE:
DITCH LINE DRAINAGE STRUCTURES RIM ELEVATIONS SHALL BE FIELD VERIFIED



SOUTH DITCH LINE DRAINAGE STRUCTURES

NOTES:
1. DITCH LINE DRAINAGE STRUCTURES RIM ELEVATIONS SHALL BE FIELD VERIFIED

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STATE OF NEW YORK · WILLIAM J. GRAY · 0578901 · LICENSED PROFESSIONAL ENGINEER

DATE:

CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD
DRAINAGE PROFILE

SIZE	FSCM NO.	DWG NO.	REV

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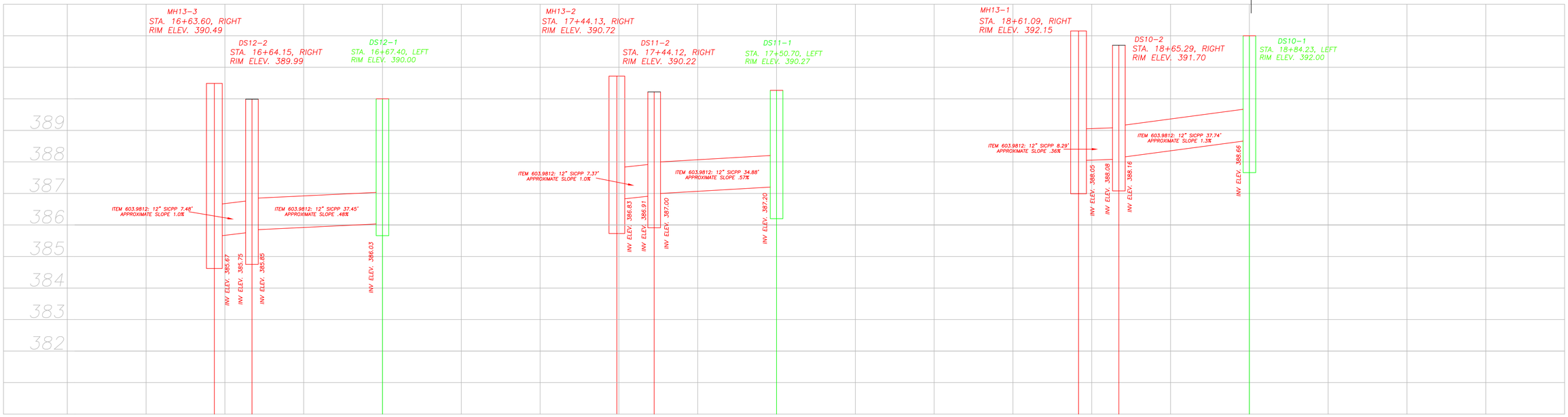
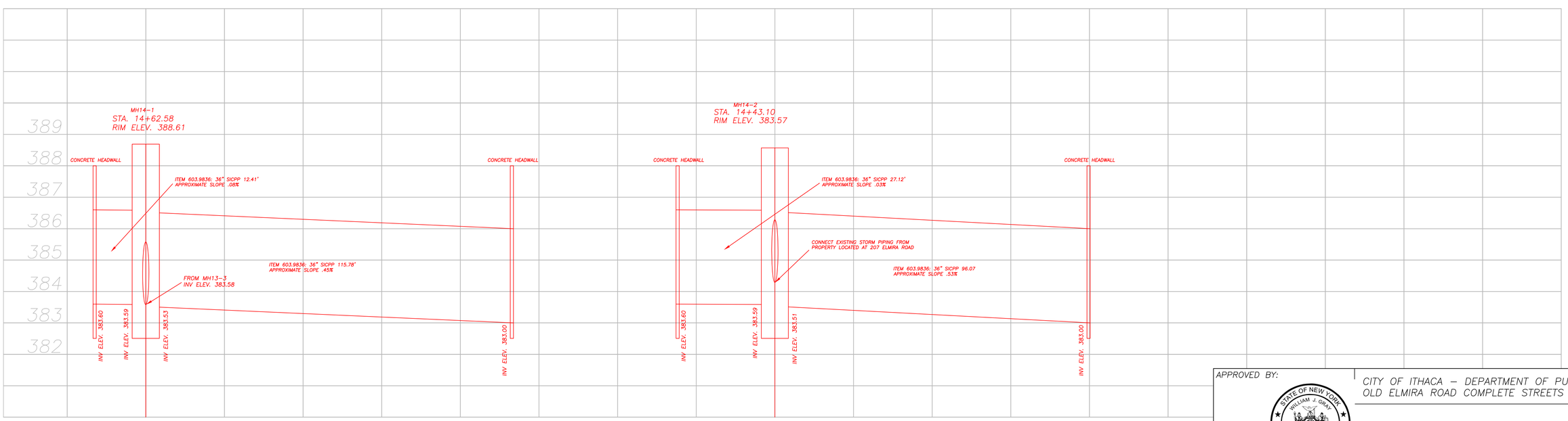
SCALE NTS | DATE: APRIL 11, 2014 | SHEET DP-3

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



DRAINAGE CROSSINGS



DRAINAGE CROSSINGS

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DATE:

CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

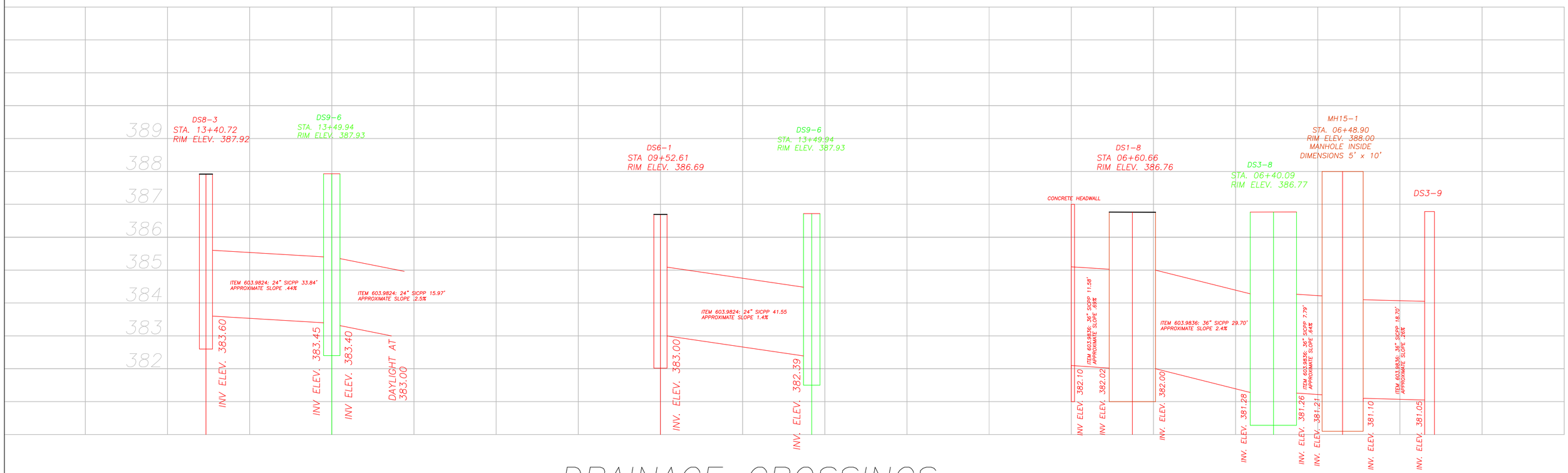
OLD ELMIRA ROAD DRAINAGE PROFILE
DRAINAGE CROSSINGS

SIZE	FSCM NO.	DWG NO.	REV

DRAWING BY BHH

SCALE NTS | DATE: APRIL 11, 2014 | SHEET DC-1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



DRAINAGE CROSSINGS

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CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD DRAINAGE PROFILE
DRAINAGE CROSSINGS

SIZE	FSCM NO.	DWG NO.	REV

SCALE NTS | DATE: APRIL 11, 2014 | SHEET DC-2

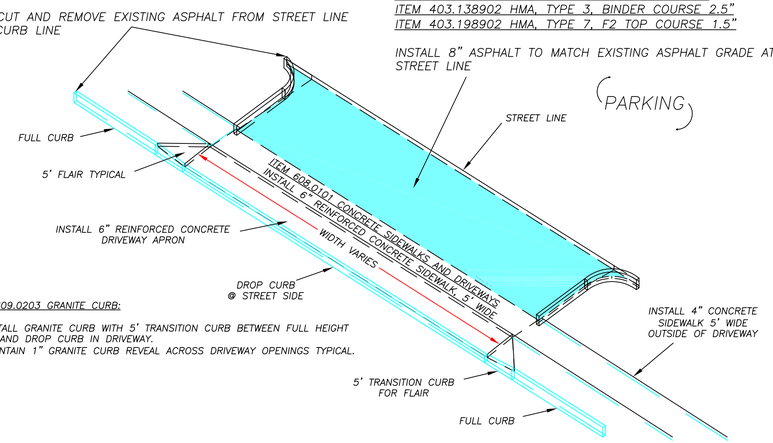
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

ITEM 203.02 UNCLASSIFIED EXCAVATION
ITEM 520.50 SAWCUT (ASPHALTIC CONCRETE AND ASPHALT)

SAWCUT AND REMOVE EXISTING ASPHALT FROM STREET LINE TO CURB LINE

ITEM 403.118902 HMA, TYPE 1, BASE COURSE 4"
ITEM 403.138902 HMA, TYPE 3, BINDER COURSE 2.5"
ITEM 403.198902 HMA, TYPE 7, F2 TOP COURSE 1.5"

INSTALL 8" ASPHALT TO MATCH EXISTING ASPHALT GRADE AT STREET LINE

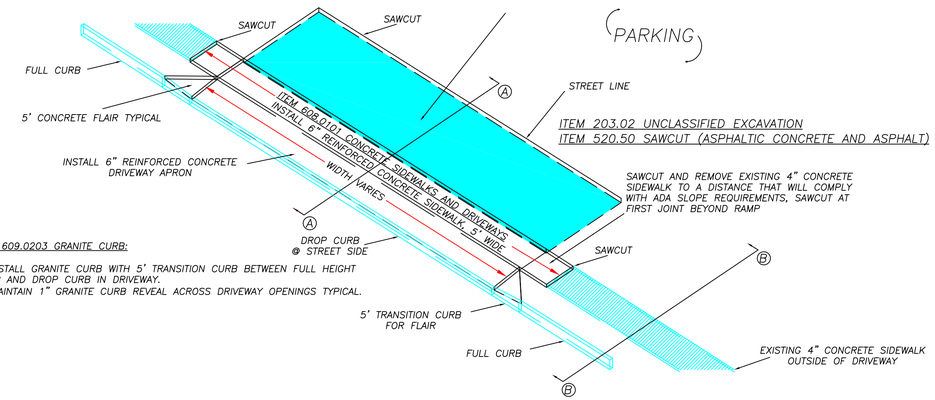


ITEM 609.0203 GRANITE CURB:

1. INSTALL GRANITE CURB WITH 5' TRANSITION CURB BETWEEN FULL HEIGHT CURB AND DROP CURB IN DRIVEWAY.
2. MAINTAIN 1" GRANITE CURB REVEAL ACROSS DRIVEWAY OPENINGS TYPICAL.

TYPICAL DRIVEWAY DETAIL WITH NEW 6" CONCRETE SIDEWALK INSTALLED

ITEM 403.118902 HMA, TYPE 1, BASE COURSE 4"
ITEM 403.138902 HMA, TYPE 3, BINDER COURSE 2.5"
ITEM 403.198902 HMA, TYPE 7, F2 TOP COURSE 1.5"
INSTALL 8" ASPHALT TO MATCH EXISTING ASPHALT GRADE AT STREET LINE



ITEM 609.0203 GRANITE CURB:

1. INSTALL GRANITE CURB WITH 5' TRANSITION CURB BETWEEN FULL HEIGHT CURB AND DROP CURB IN DRIVEWAY.
2. MAINTAIN 1" GRANITE CURB REVEAL ACROSS DRIVEWAY OPENINGS TYPICAL.

TYPICAL DRIVEWAY DETAIL WITH EXISTING 6" CONCRETE SIDEWALK

NO LONGITUDINAL JOINTS SHALL BE ALLOWED IN ASPHALT COURSES WITHIN 24" OF EDGE OF EXISTING CONCRETE ROAD BASE. SUBSEQUENTLY INSTALLED ASPHALT COURSES SHALL ALSO HAVE THEIR JOINTS STAGGARD BY A MINIMUM OF 24".

ITEM 607.0101 CONCRETE SIDEWALKS AND DRIVEWAYS:

6" REINFORCED CONCRETE DRIVEWAY AND SIDEWALK

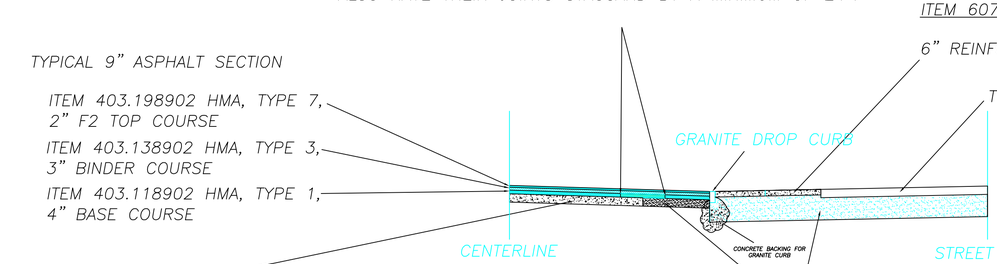
TYPICAL 8" ASPHALT SECTION

TYPICAL 9" ASPHALT SECTION

ITEM 403.198902 HMA, TYPE 7, 2" F2 TOP COURSE

ITEM 403.138902 HMA, TYPE 3, 3" BINDER COURSE

ITEM 403.118902 HMA, TYPE 1, 4" BASE COURSE

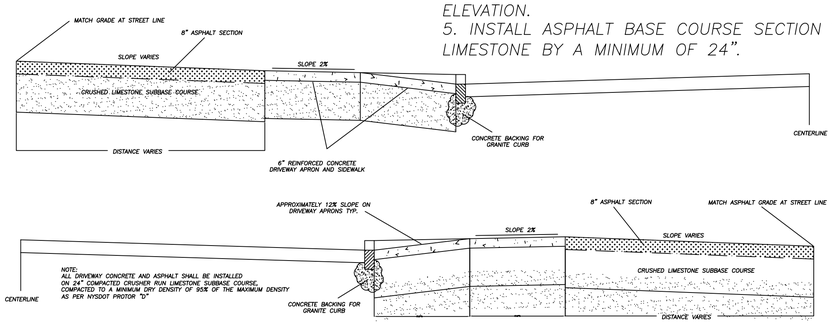


EXISTING CONCRETE BASE TO REMAIN, THICKNESS VARIES

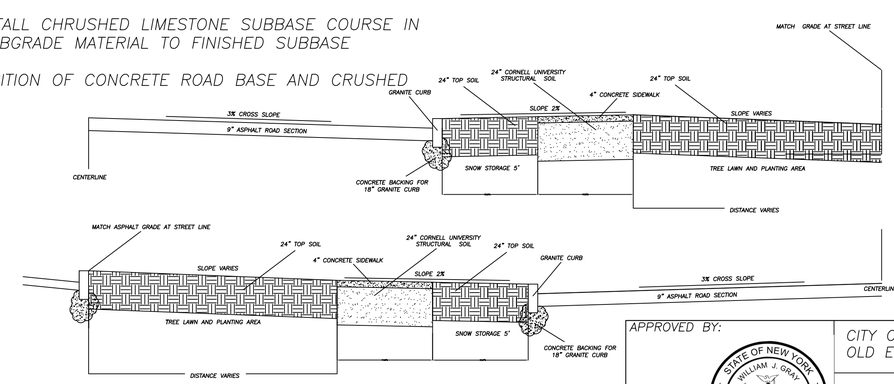
ITEM 17 304.98 CRUSHED AGGREGATE SUBBASE COURSE:
INSTALL CRUSHED LIMESTONE OR PROJECT MILLINGS IN COMPACTED 6" LIFTS FROM SUITABLE SUBGRADE MATERIAL TO FINISHED SUBBASE ELEVATION ADJACENT TO CONCRETE ROAD BASE AND IN DRIVEWAY OPENINGS

TYPICAL ROAD SECTION

NOTES:
1. EXISTING CONCRETE ROAD BASE TO REMAIN IN PLACE.
2. ITEM 490.30 MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE: MILL ASPHALT SECTION OVER CONCRETE ROAD BASE OR CONCRETE ROAD BASE TO FINISHED SUBBASE ELEVATION, WHICHEVER IS APPROPRIATE.
3. IN AREAS THAT HAVE NO CONCRETE ROAD BASE EXCAVATE TO SUITABLE SUBGRADE ELEVATION AND COMPACT TO 95% AS PER NYSDOT SPECIFICATIONS.
4. ITEM 17 304.98 CRUSHED AGGREGATE SUBBASE COURSE: INSTALL CHRUSHED LIMESTONE SUBBASE COURSE IN AREAS WITH NO CONCRETE BASE FROM SUITABLE COMPACTED SUBGRADE MATERIAL TO FINISHED SUBBASE ELEVATION.
5. INSTALL ASPHALT BASE COURSE SECTION TO SPAN THE TRANSITION OF CONCRETE ROAD BASE AND CRUSHED LIMESTONE BY A MINIMUM OF 24".



TYPICAL SECTION (A)



TYPICAL SECTION (B)

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DATE:

CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

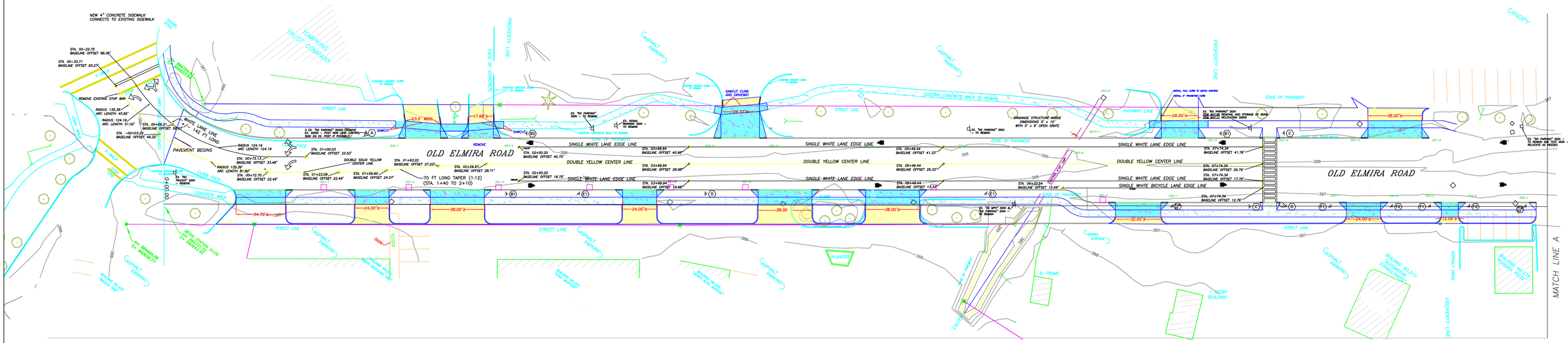
DETAILS AND SECTIONS

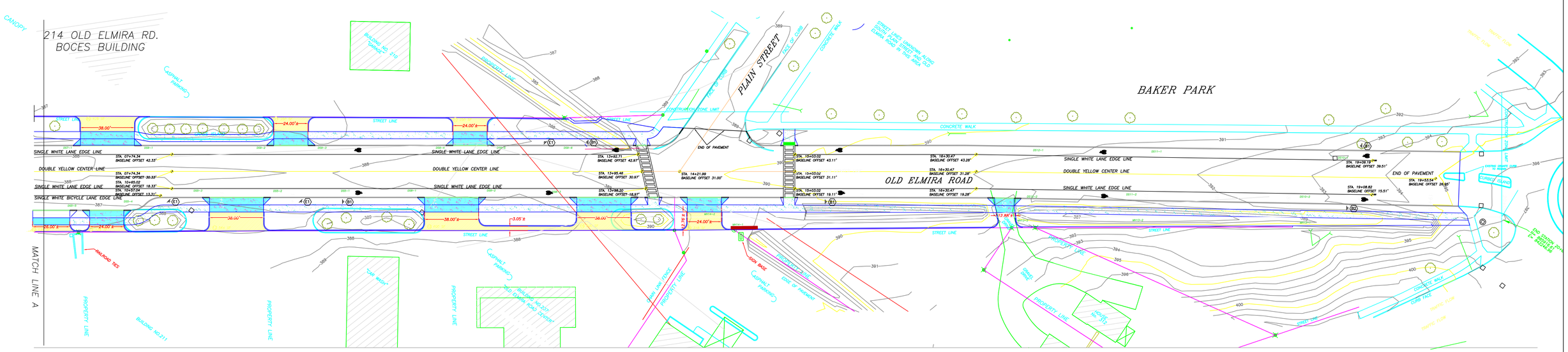
SIZE	FSCM NO.	DWG NO.	REV
D			

DRAWING BY BHH | SCALE NTS | DATE: APRIL 11, 2014 | SHEET D-1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

PAVEMENT MARKING AND SIGNAGE LAYOUT





NOTES:

1. TYPICAL SIGN POST LOCATION SHALL BE 30" BEHIND GRANITE CURB FACE.

2. APPROXIMATE SIGN LOCATIONS SHOWN ON DRAWINGS MAY BE ADJUSTED IN THE FIELD, THE ACTUAL LOCATIONS SHALL BE LAID OUT AND APPROVED BY THE CITY'S TRAFFIC ENGINEER.

SIGN SCHEDULE
A – LANE CONTROL SIGN (NYR3–63, 42"X30")
B1 – BIKE LANE SIGN (R3–17, 24"X18")
B2 – BIKE LANE SIGN (R3–17) WITH "ENDS" PLAQUE (R3–17bP, 24"X8")
C – PEDESTRIAN CROSSWALK SIGN (R1–5, 36"X36")
D – SPEED LIMIT SIGN, 30 MPH (R2–1, 24"X30")
E1 – NO PARKING SIGN, DOUBLE ARROW (R7–1, 12"X18")
E2 – NO PARKING SIGN, RIGHT ARROW (R7–1, 12"X18")
E3 – NO PARKING SIGN, LEFT ARROW (R7–1, 12"X18")
F1 – LOADING ZONE, 15 MINUTES, RIGHT ARROW (SIMILAR TO R7–5, 12"X18")
F2 – LOADING ZONE, 15 MINUTES, LEFT ARROW (SIMILAR TO R7–5, 12"X18")
G – BUS STOP SIGN (PROV. BY TCAT)

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CITY OF ITHACA – DEPARTMENT OF PUBLIC WORKS
OLD ELMIRA ROAD COMPLETE STREETS PROJECT

OLD ELMIRA ROAD
PAVEMENT MARKING AND
SIGNAGE LAYOUT PLAN

SIZE	FSCM NO.	DWG NO.	REV
D			

DRAWING BY BHH

SCALE NTS | DATE: APRIL 11, 2014 | SHEET PM – 1