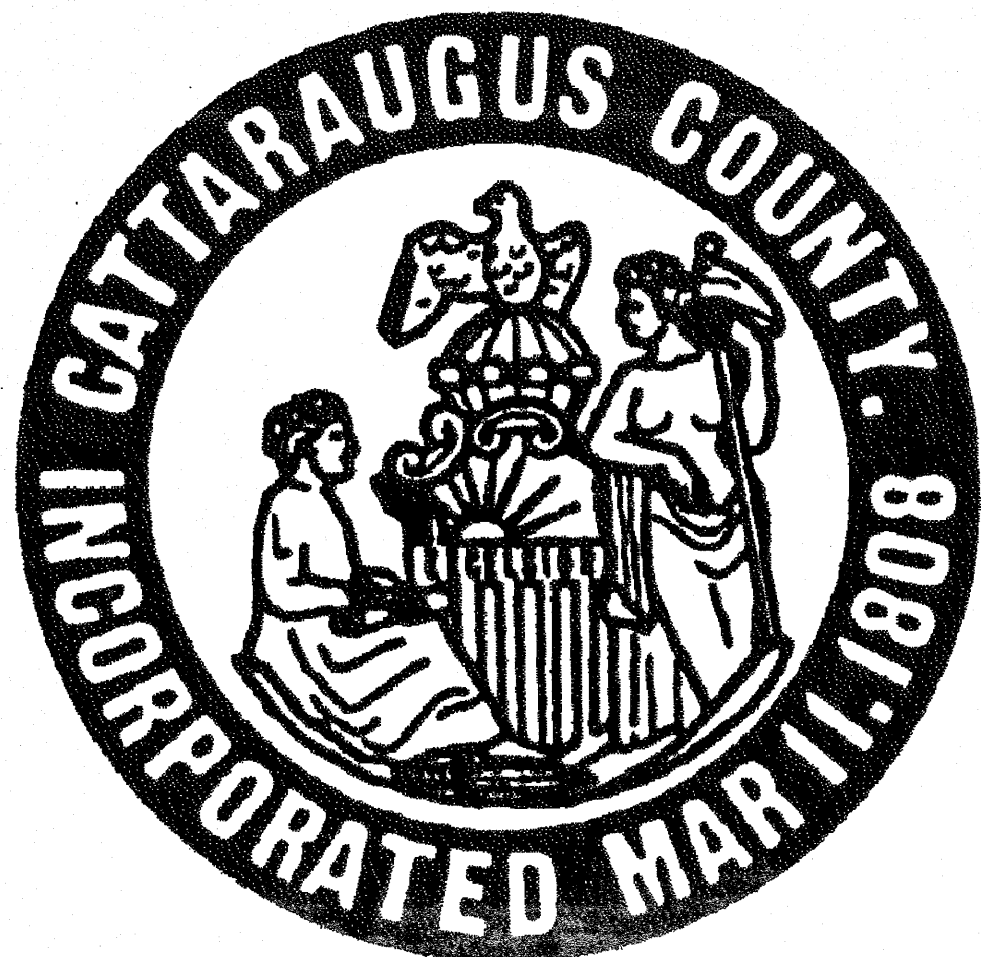
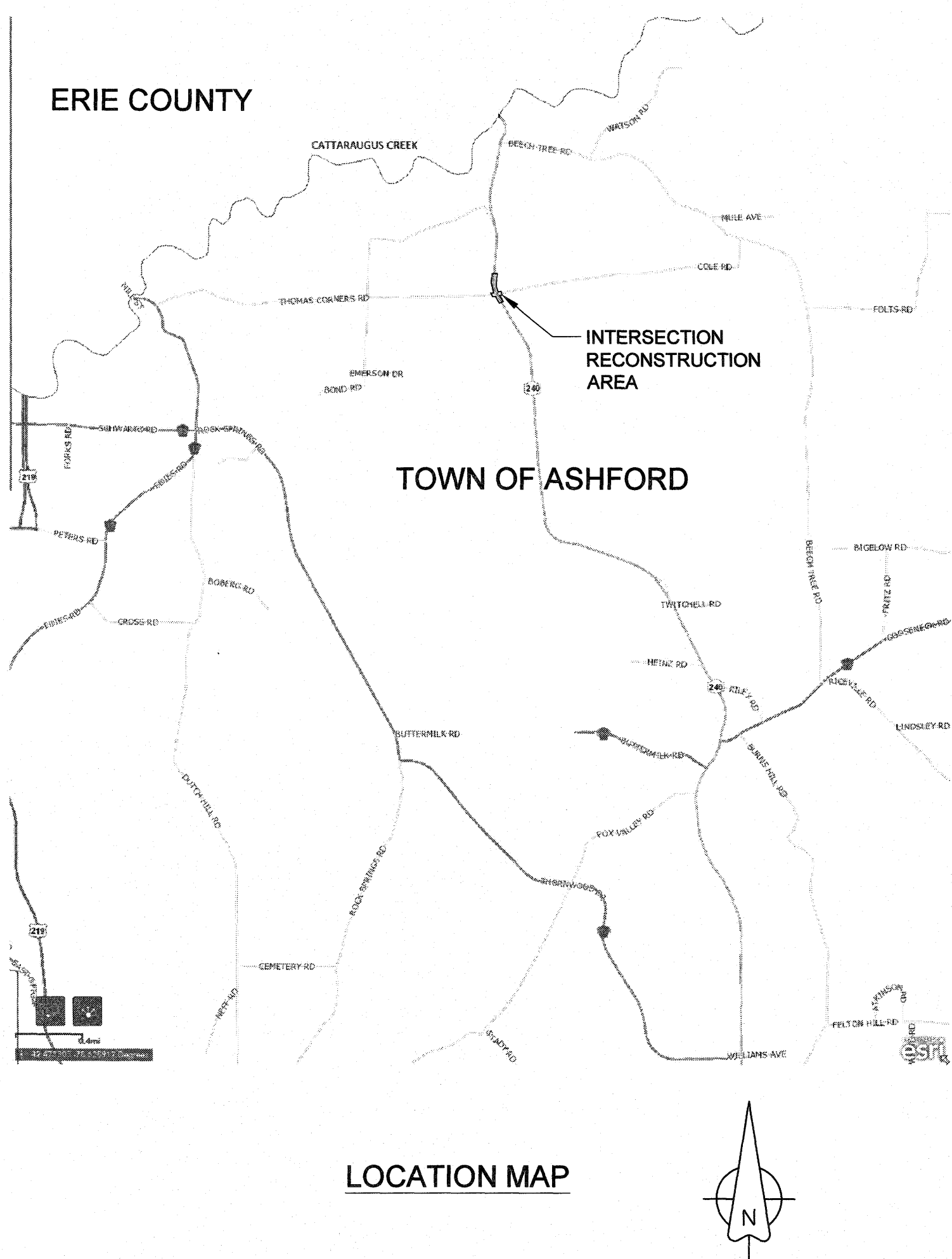


CATTARAUGUS COUNTY
 BID #49 - COUNTY ROAD 32 - THOMAS CORNERS AND COLE ROAD
 INTERSECTION RECONSTRUCTION
 TOWN OF ASHFORD
 PROJECT NO. J197.27019
 JULY, 2018



COUNTY LEGISLATURE
 JAMES J. SNYDER, SR. - CHAIRMAN
 SUSAN LABUHN - VICE CHAIRMAN

DPW CHAIRMAN
 VERGILLIO L. GIARDINI JR.

DPW VICE CHAIRMAN
 RICHARD F. HELMICH JR.

DPW COMMISSIONER
 KATHLEEN M. ELLIS

DIRECTOR OF ENGINEERING
 MARK C. BURR, P.E.

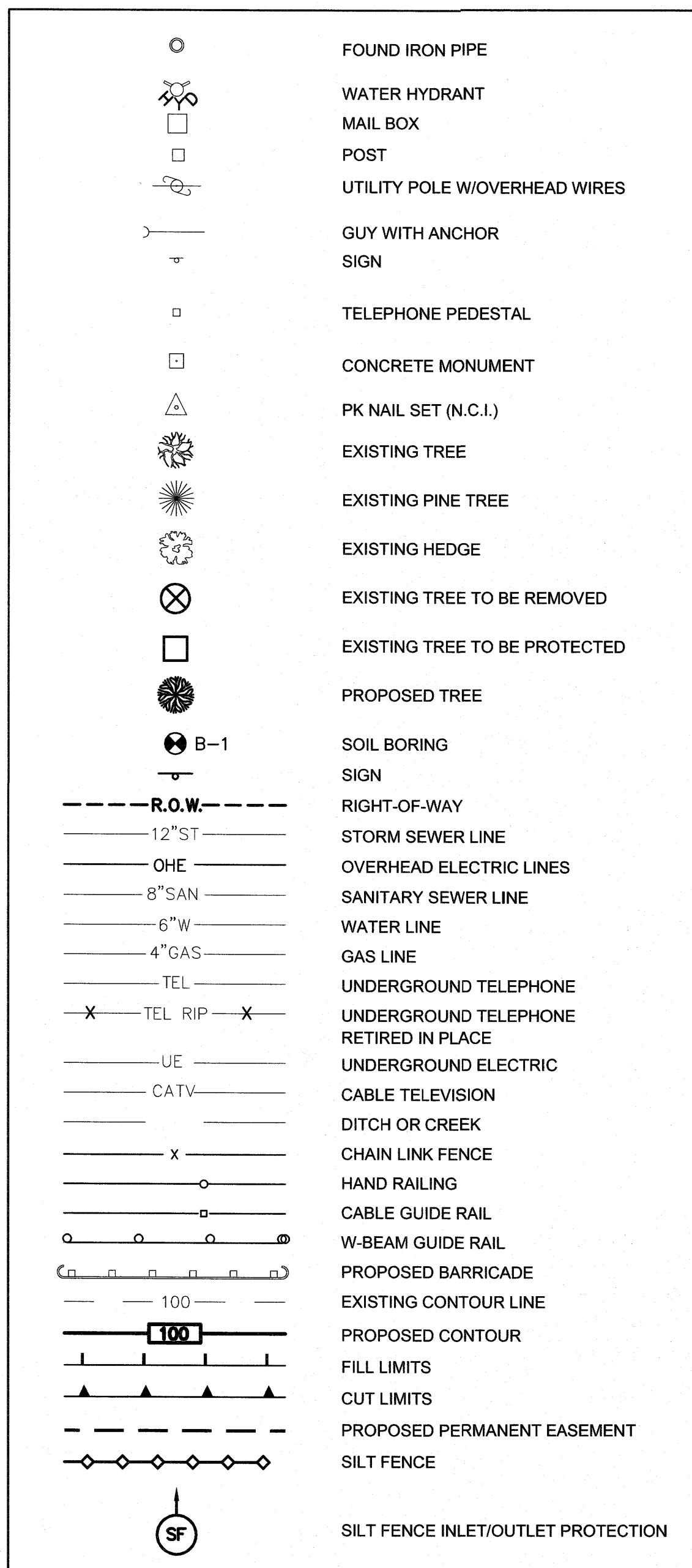
DRAWING LIST	
SHEET NO.	TITLE
1	G-1 COVER
2	G-2 LEGEND AND NOTES
3	TS-1 TYPICAL SECTIONS COUNTY ROAD 32
4	TS-2 TYPICAL SIDE ROAD SECTIONS AND DETAILS
5	ECP-1 EROSION CONTROL PLAN
6	P-1 PLAN AND PROFILE COUNTY ROAD 32
7	P-2 PLAN AND PROFILE COUNTY ROAD 32
8	P-3 PLAN AND PROFILE COUNTY ROAD 32
9	P-4 PLAN AND PROFILE THOMAS CORNERS AND COLE ROADS

THE FOLLOWING NYSDOT STANDARD SHEETS SHALL BE REQUIRED FOR WORK ZONE TRAFFIC CONTROL ON THIS PROJECT (INCLUDING BUT NOT LIMITED TO):
 619-02, 619-10, 619-11, 619-12, 619-20, 619-21, 619-60, 619-61

NUSSBAUMER & CLARKE, INC.
 A CORPORATION REGISTERED TO PRACTICE
 PROFESSIONAL ENGINEERING & LAND SURVEYING
 IN THE STATE OF NEW YORK
 CERTIFICATE NO. 19227

NUSSBAUMER & CLARKE, INC.
 ENGINEERS AND SURVEYORS
 3556 Lake Shore Road, Suite 500 | Buffalo, NY 14219
 (716) 827-8000 | (716) 826-7958 fax
 www.nussclarke.com

LEGEND



GENERAL NOTES

1. SPECIFICATIONS:
- A. NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2017. THIS PUBLICATION IS AVAILABLE AT WWW.NYSBOT.GOV.
- B. NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, WITH NEW YORK STATE SUPPLEMENT, 2010 EDITION. THE ONLINE VERSIONS OF THESE PUBLICATIONS ARE AVAILABLE AT WWW.NYSBOT.GOV.
- C. ITEM NUMBERS WITH EIGHT DIGITS AFTER THE DECIMAL INDICATE SPECIAL SPECIFICATIONS THAT ARE INCLUDED IN THE BID PROPOSAL.
2. DUE TO THE NATURE OF RECONSTRUCTION PROJECTS THE EXACT EXTENT OF WORK CAN NOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON SURVEY, RECORD PLANS, FIELD INVESTIGATIONS AND OTHER MATERIALS AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM ALL WORK A.O.B.E. IN ACCORDANCE WITH THE FIELD CONDITIONS.
3. ALL WORK ON THIS PROJECT IS EXPECTED TO BE PERFORMED WITHIN THE COUNTY AND STATE RIGHT-OF-WAY. ANY DAMAGE TO PROPERTY'S OUTSIDE OF THESE LIMITS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND/OR OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT MATERIALS WHICH ARE TO REMAIN IN PLACE AND REMAIN THE PROPERTY OF THE COUNTY ARE UNDISTURBED. IF THE CONTRACTOR CAUSES OR ALLOWS DAMAGES TO SAID MATERIALS, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE COUNTY AT THE CONTRACTOR'S EXPENSE.
5. WHENEVER ITEMS OR SPECIFICATIONS WITHIN THE CONTRACT REQUIRE MATERIAL TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA, RELATED PERMITS AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED UNDER THE UNIT OR LUMP SUM COSTS OF THE APPROPRIATE ITEMS.
6. THE COST OF WATER TO CONTROL DUST, AID IN COMPACTION OF FILL AND SUBBASE ITEMS, AND ESTABLISH TURF SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR THE APPROPRIATE ITEMS.

RIGHT OF WAY DETERMINATION

1. THE RIGHT-OF-WAY OF COUNTY ROAD 32 AND OF THOMAS CORNERS AND COLE ROADS WERE DETERMINED BY RESEARCHING THE HIGHWAY RECORDS FOR THE TOWN OF ASHFORD, CATTARAUGUS COUNTY, AS PREPARED BY THE NYS DEPARTMENT OF PUBLIC WORKS IN 1934.

SURVEY NOTES

1. THE CONTRACTOR SHALL SURVEY AND STAKEOUT THE R.O.W. LINES DURING THE INITIAL STAGES OF THE PROJECT FOR USE BY THE CONTRACTOR IN THE LAYOUT OF THE WORK. CONTROL DATA FOR THIS PROJECT WAS PREPARED BY CATTARAUGUS COUNTY AND SHALL BE MADE AVAILABLE TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL RESET ALL DAMAGED SURVEY PROPERTY PINS AND SUBMIT CERTIFICATIONS OF ACCURACY BY A LICENSED LAND SURVEYOR REGISTERED IN THE STATE OF NEW YORK.

EXCAVATION AND UTILITY NOTES

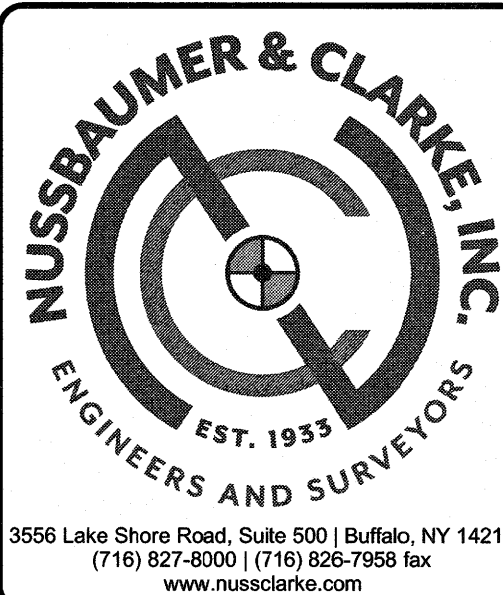
1. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE INFORMATION VERIFIED AND LOCATED PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTACT "DIG SAFELY NEW YORK" AT 1-800-962-7962 PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL ENSURE THAT ACCESS IS MAINTAINED TO LOCAL RESIDENTS AND COMMERCIAL PROPERTIES AT ALL TIMES AND THAT ADEQUATE MEASURES WILL BE EMPLOYED TO CONTROL DUST AND MINIMIZE NOISE IMPACTS.
4. ALL EXISTING UTILITY LINES AND SERVICE LATERALS CROSSING THE NEW WORK SHALL BE PROTECTED. ANY DAMAGE TO THE EXISTING UTILITIES THAT ARE TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IF IN THE JUDGMENT OF THE ENGINEER, SAID DAMAGE IS DUE TO THE CONTRACTOR'S NEGLIGENCE.
5. EXISTING TREES AND ROOT SYSTEMS THAT ARE IN GOOD HEALTH AND DO NOT INTERFERE WITH CONSTRUCTION ACTIVITIES SHALL BE PROTECTED WHEREVER POSSIBLE.

WORK ZONE TRAFFIC CONTROL

1. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED THROUGHOUT THE LENGTH OF THE CONTRACT IN ACCORDANCE WITH THE PROVISIONS OF SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS, THE NYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS, AND AS ORDERED BY THE ENGINEER (A.O.B.E.).
2. CONSTRUCTION WITHIN TRAVEL LANES SHALL BE CONDUCTED SO THAT THE LENGTH OF TIME THAT NORMAL TRAFFIC FLOWS ARE DISTURBED IS MINIMIZED, SUCH AS PEAK COMMUTING HOURS, 7:00 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM.
3. DURING NON-PEAK COMMUTING HOURS, TEMPORARY LANE CLOSURES WITH DEDICATED FLAGGERS SHALL BE UTILIZED TO PERMIT ONE-WAY TRAFFIC AROUND THE WORK ZONE. ELECTRONIC COMMUNICATION BETWEEN FLAGGERS IS REQUIRED WHEN COMPANION FLAGGERS ARE FAR APART OR OUT OF SIGHT OF EACH OTHER, OR A.O.B.E. THE CONTRACTOR SHALL CONFORM TO APPLICABLE SECTIONS OF THE NYSDOT STANDARD SPECIFICATIONS SECTION 619 AND THE NYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

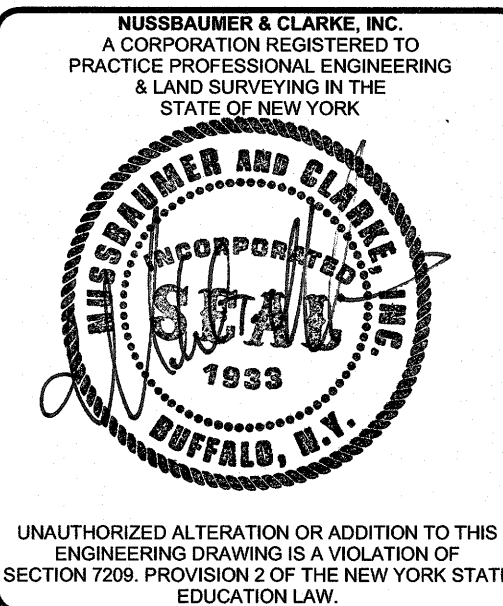
EROSION CONTROL NOTES

1. **TEMPORARY STABILIZATION REQUIREMENTS:** AREAS OF UNPROTECTED ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW, OR FILL, SHALL NOT BE LEFT IN AN UNPROTECTED CONDITION FOR A PERIOD OF GREATER THAN 7 DAYS. THE ENGINEER MAY DETERMINE THAT A POTENTIAL FOR EROSION EXISTS AND ORDER THE CONTRACTOR TO INSTALL TEMPORARY EROSION CONTROLS. TEMPORARY EROSION CONTROLS MUST BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION AND REINSTALLED AS NECESSARY UNTIL REPLACED BY PERMANENT EROSION CONTROLS OR TEMPORARY FINAL RESTORATION IS COMPLETE. THE COST FOR TEMPORARY STABILIZATION SHALL BE INCLUDED IN THE GENERAL CONTRACT. INSTALL ITEM 209.13, SILT FENCE-TEMPORARY, TO SERVE AS TEMPORARY SLOPE BREAKERS TO REDUCE RUNOFF VELOCITY.
2. **FINAL RESTORATION REQUIREMENTS:** AREAS DISTURBED BY THE CONTRACTOR, AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED AS SPECIFIED, TO THE SATISFACTION OF THE ENGINEER. ALL DISTURBED GRASS AREAS SHALL BE GRADED IN A MANNER APPROVED BY THE ENGINEER, AND SEEDED AS SPECIFIED IN ITEM 610.0203, ESTABLISHING TURF. THE CONTRACTOR'S WORK SHALL BE CONTAINED WITHIN THE CONFINES OF THE COUNTY RIGHT-OF-WAY AND THE TEMPORARY EASEMENTS. DISTURBED AREAS BEYOND THE LIMITS SHOWN ON THE DRAWINGS SHALL BE RESTORED AS NOTED ABOVE AT NO ADDITIONAL COST TO THE COUNTY.
3. **ACCORDING TO THE NEW YORK STATE DEPARTMENT OF CONSERVATION, MAINTENANCE PROJECTS (OVERLAY) ARE EXEMPT FROM STORMWATER POLLUTION PREVENTION REQUIREMENTS. THE TOTAL AREA OF THE FULL RECONSTRUCTION PORTION OF THE PROJECT IS 0.75 ACRES.**



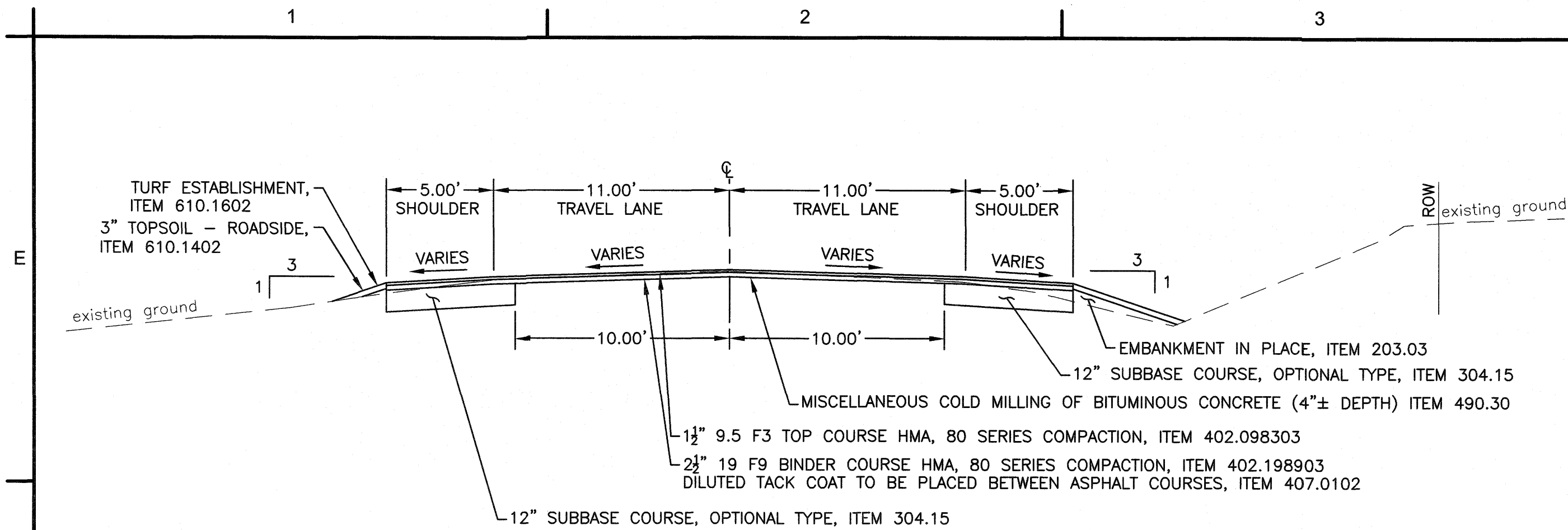
COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

LEGEND AND NOTES

[illegible]

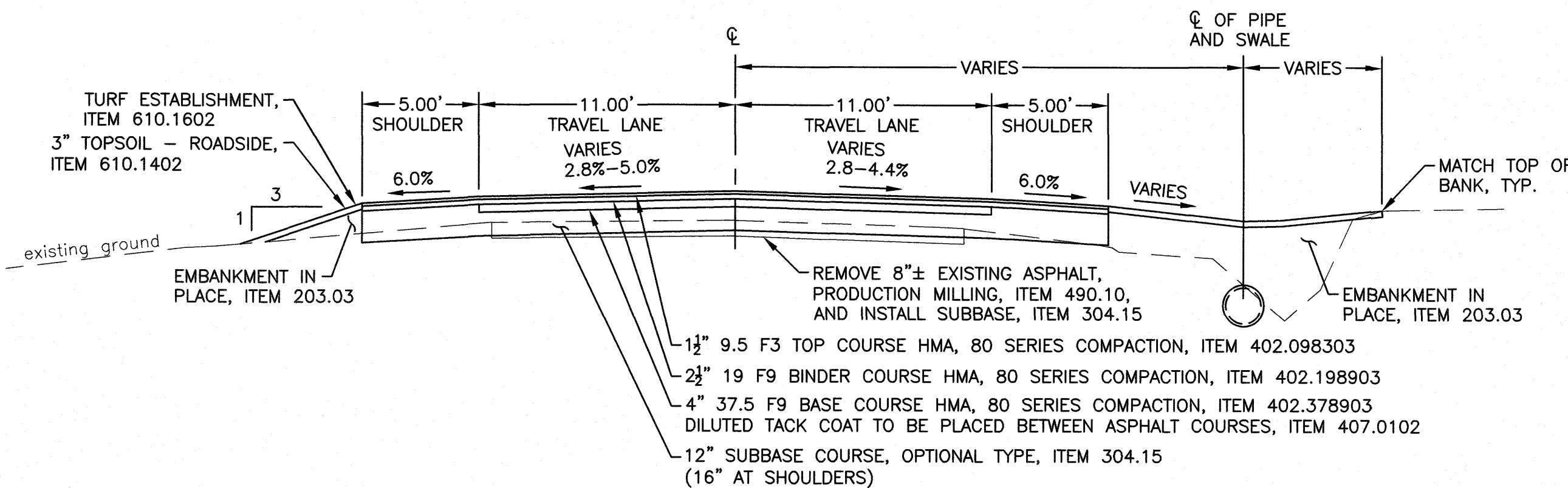
PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
 = 1 INCH	
SHEET No.	2 OF 3

G-2



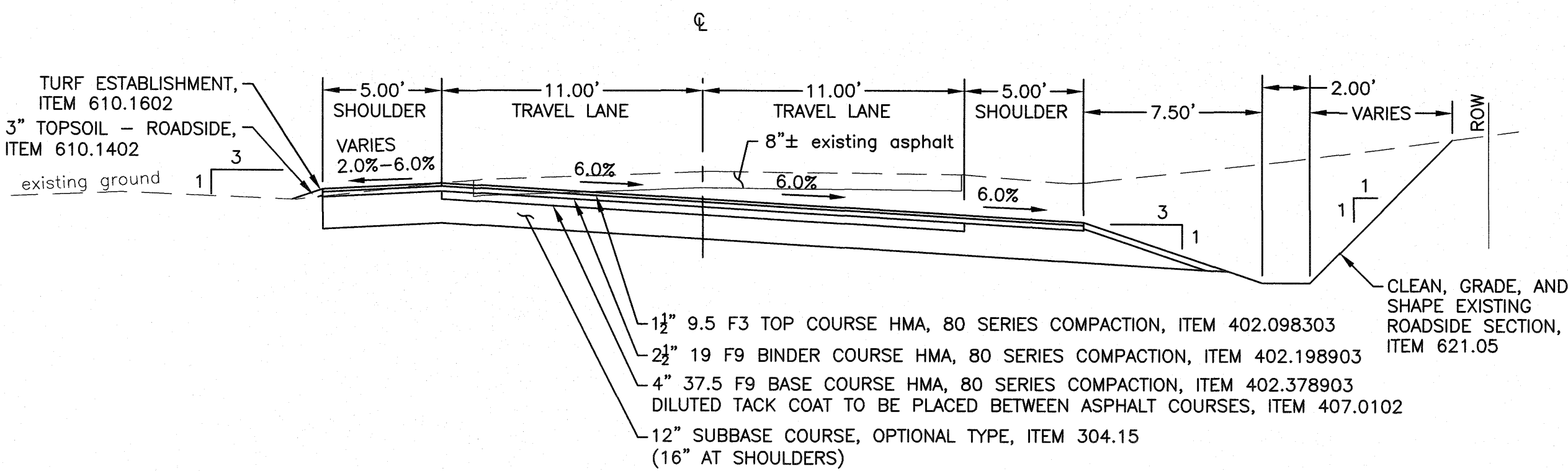
TYPICAL SECTION 1 - MILLED AREAS

SCALE: 1:5
STA. 629+00.00 TO STA. 630+02.52
STA. 640+08.66 TO STA. 640+25.00



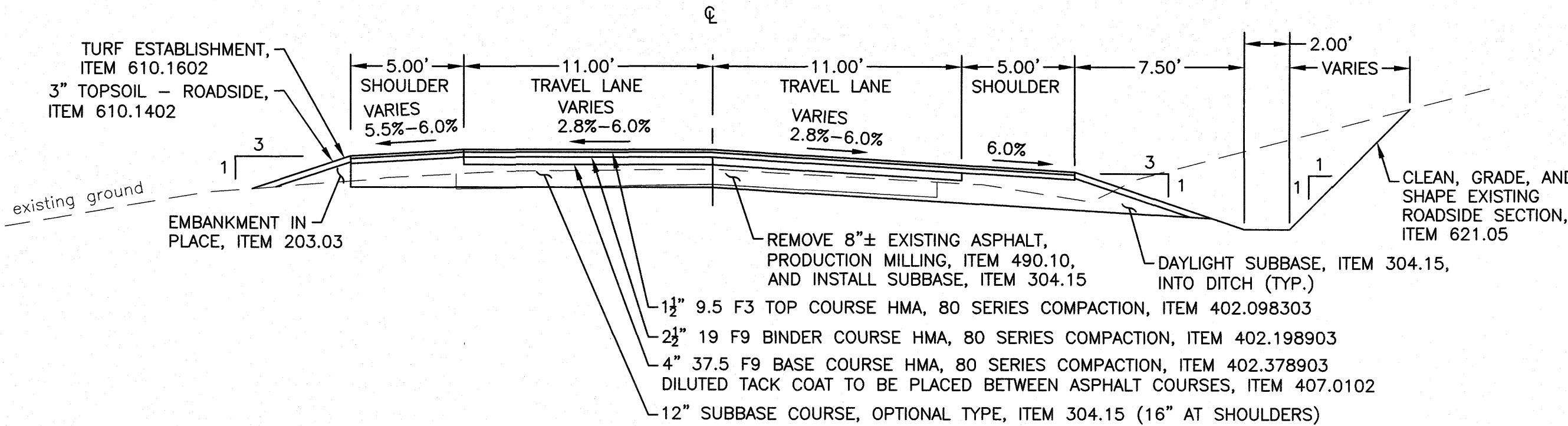
TYPICAL SECTION 2 - FULL DEPTH RECONSTRUCTION NORMAL CROWN

SCALE: 1:5
STA. 630+02.52 TO STA. 630+81.73
STA. 639+94.95 TO STA. 640+08.66



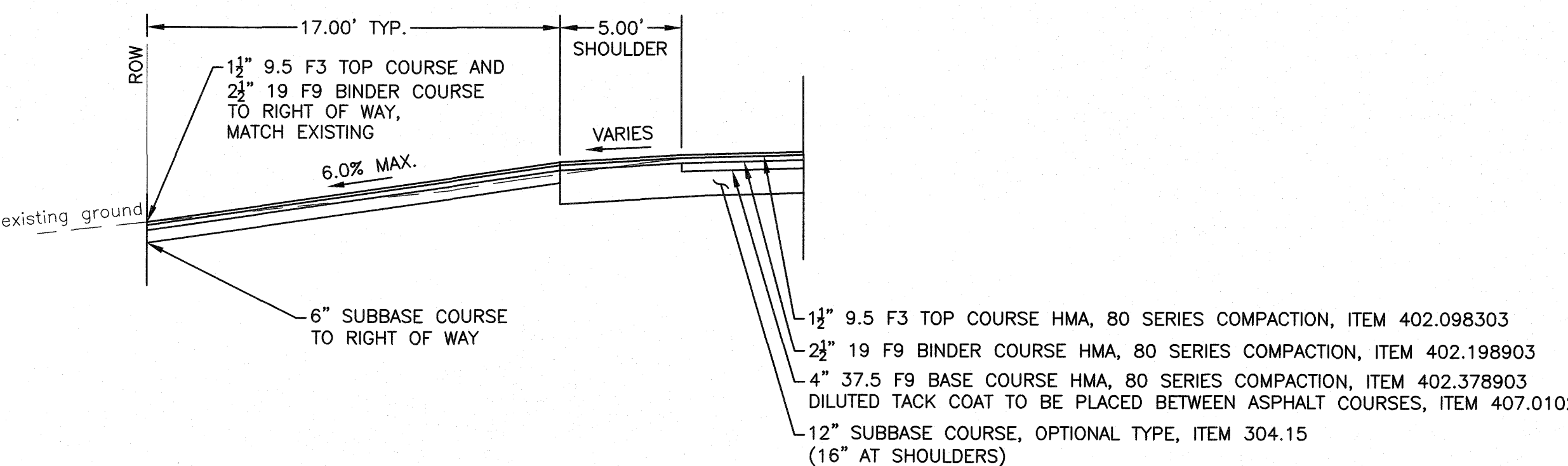
TYPICAL SECTION - 3 FULL DEPTH RECONSTRUCTION SUPERELEVATION AREA

SCALE: 1:5
STA. 633+66.73 TO STA. 637+09.95



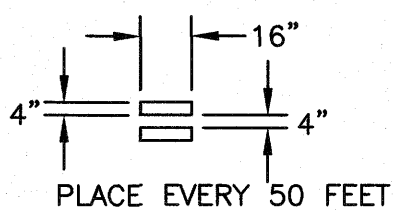
TYPICAL SECTION 4 - FULL DEPTH RECONSTRUCTION TRANSITION AREA

SCALE: 1:5
STA. 630+81.73 TO STA. 633+66.73
STA. 637+09.95 TO STA. 639+94.95



TYPICAL DRIVEWAY SECTION

SCALE: 1:5



INTERIM PAVEMENT MARKINGS,
ITEM 619.100103

NOTE: INTERIM PAVEMENT MARKINGS SHALL NOT BE
PLACED ON THOMAS CORNERS ROAD OR COLE ROAD.

NUSSBAUMER & CLARKE, INC.
ENGINEERS AND SURVEYORS
EST. 1933
3556 Lake Shore Road, Suite 500 | Buffalo, NY 14219
(716) 627-8000 | (716) 625-7958 fax
www.nussclarke.com

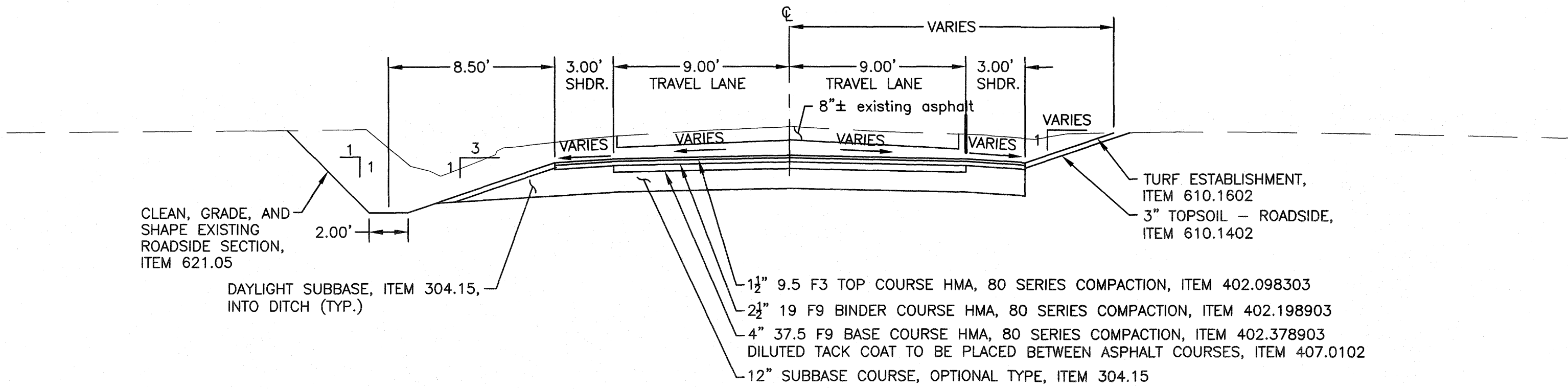
COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD
TYPICAL SECTIONS
COUNTY ROAD 32

REVISIONS		
No.	DESCRIPTION	DATE
0		

NUSSBAUMER & CLARKE, INC.
A CORPORATION REGISTERED TO
PRACTICE PROFESSIONAL ENGINEERING
& LAND SURVEYING IN THE
STATE OF NEW YORK
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
ENGINEERING DRAWING IS A VIOLATION OF
SECTION 2209, PROVISION 2 OF THE NEW YORK STATE
EDUCATION LAW.

PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	CCDPW
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
SHEET No.	3 OF 9

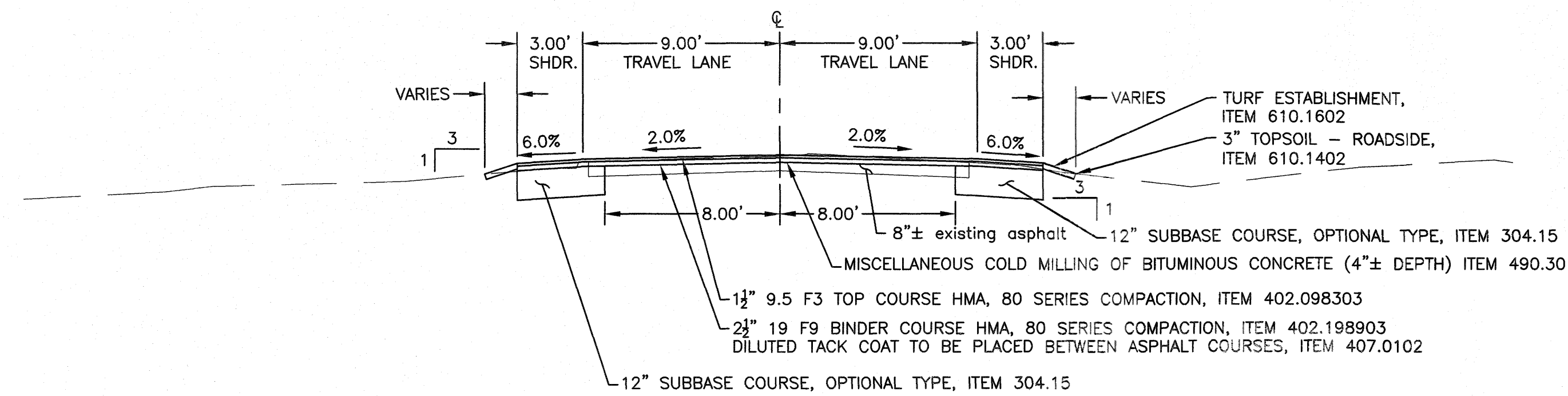
TS-1



TYPICAL SECTION - FULL DEPTH RECONSTRUCTION

SCALE: 1:5

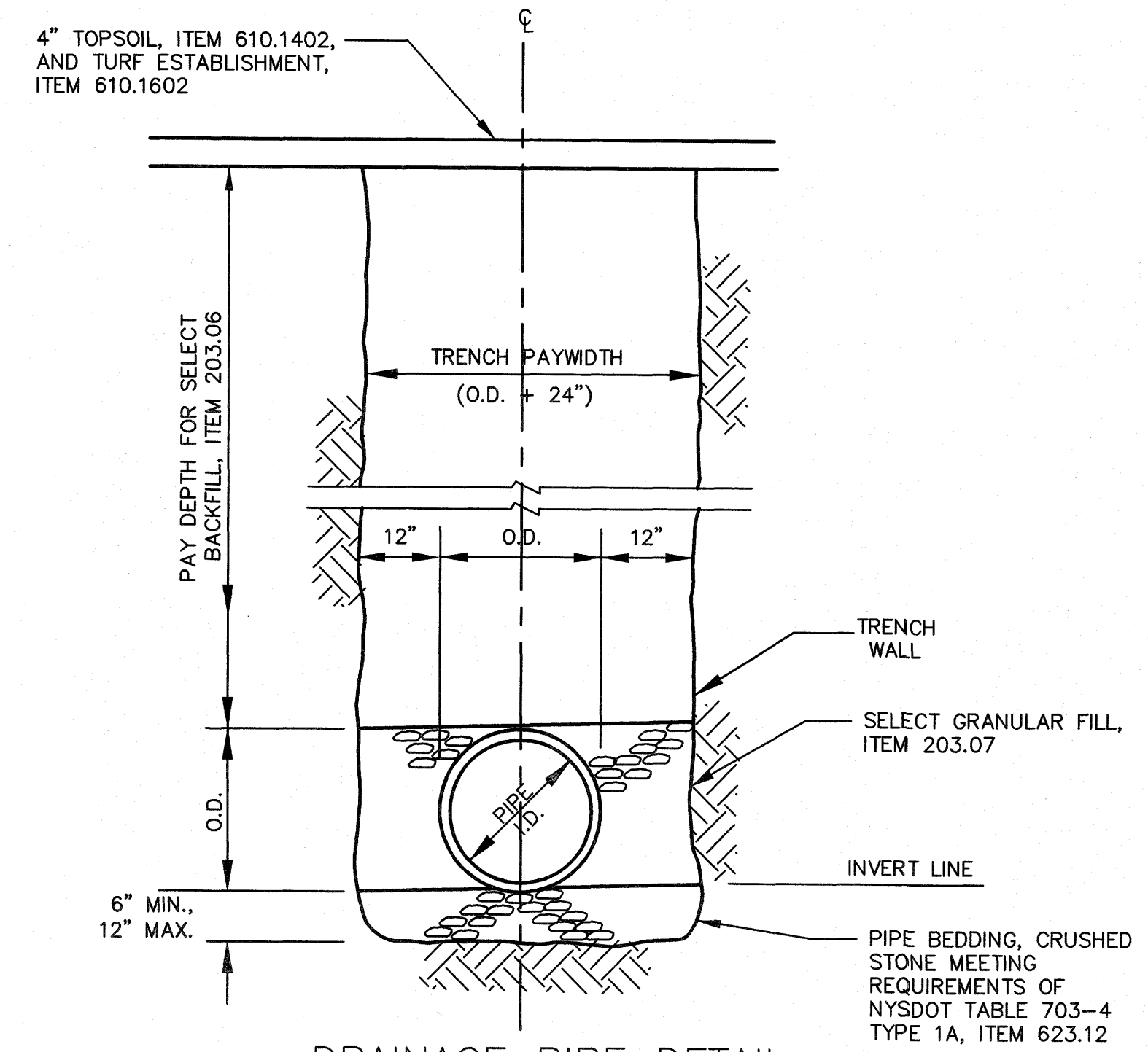
STA. T1+56.52 TO STA. T4+25.02



TYPICAL SECTION - MILLED AREAS

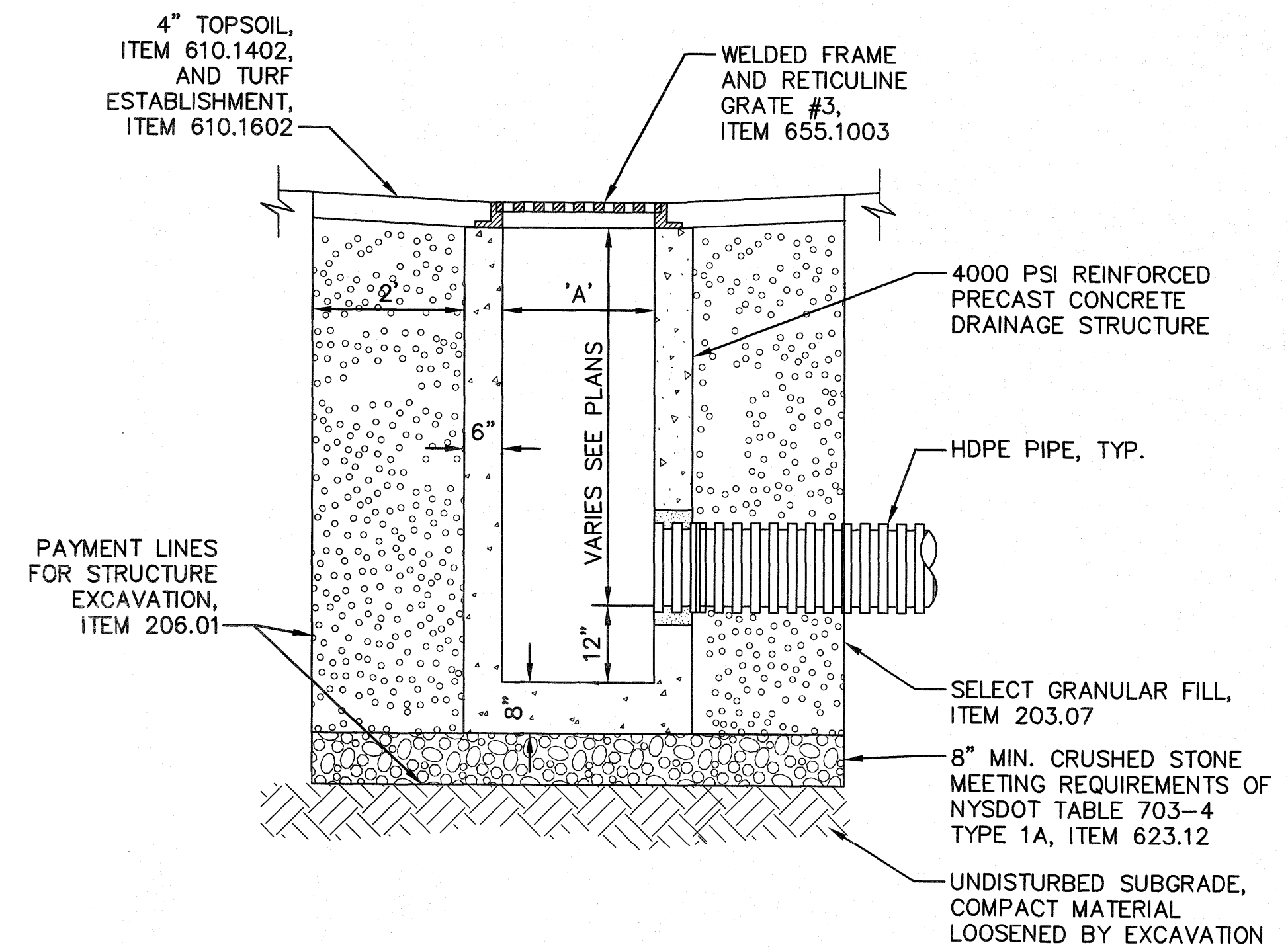
SCALE: 1:5

STA. T0+80.82 TO STA. T1+56.52
STA. T4+25.02 TO STA. T4+68.20



DRAINAGE PIPE DETAIL

SCALE: NONE



NOTES:

1. INTERIOR DIMENSION 'A' IS 2' SQUARE FOR ITEM 604.500103, 3' SQUARE FOR ITEM 604.300103, AND 3' BY 6.67' FOR ITEM 604.300403.
2. PRECAST CATCH BASIN UNITS SHALL BE REINFORCED IN ACCORDANCE WITH NYSDOT STANDARD SHEET 604-02.
3. PROVIDE BRICK MASONRY, NON-SHRINK GROUT AND LINK SEAL AROUND PIPE PENETRATIONS. INCLUDE THE COST OF THE INSTALLATION UNDER THE CATCH BASIN ITEM.

DRAINAGE STRUCTURE DETAIL

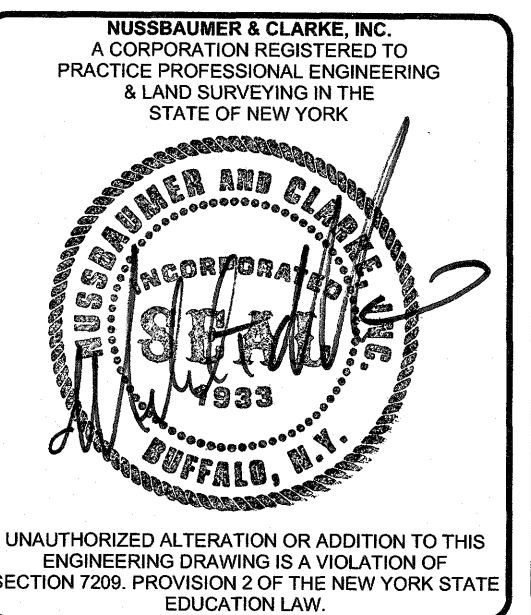
SCALE: NONE



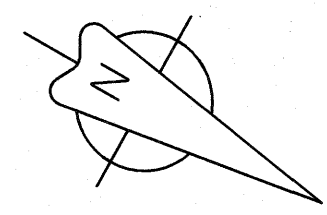
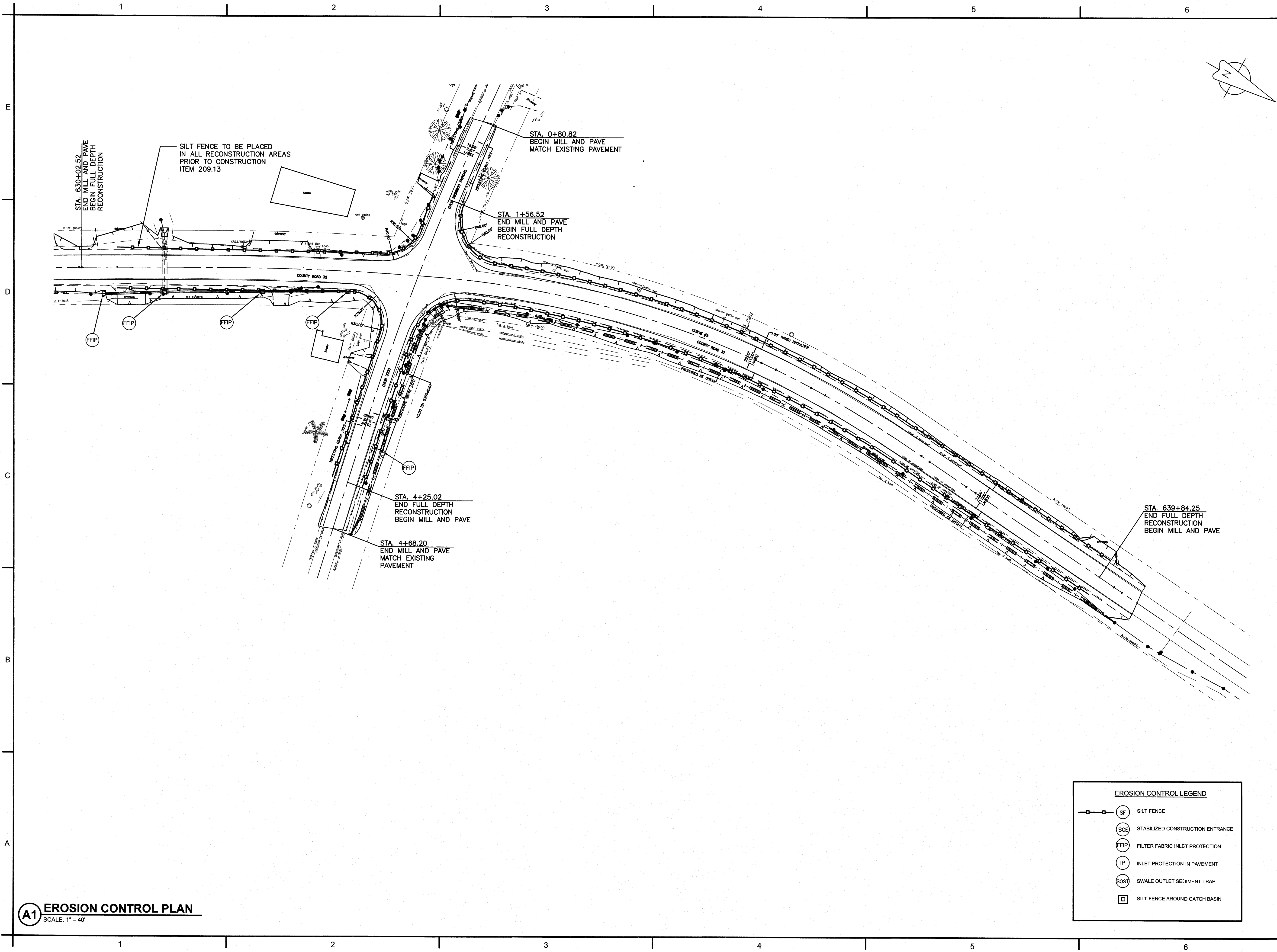
COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

TYPICAL SIDE ROAD
SECTIONS AND DETAILS

REVISIONS		
No.	DESCRIPTION	DATE
0		



PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
1" = 1 INCH	
SHEET No.	4 OF 9
TS-2	



NUSSBAUMER & CLARKE, INC.
ENGINEERS AND SURVEYORS
EST. 1933
3556 Lake Shore Road, Suite 500 | Buffalo, NY 14219
(716) 827-8000 | (716) 826-7958 fax
www.nussclarke.com

COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

EROSION CONTROL PLAN

REVISIONS		
No.	DESCRIPTION	DATE
0		

NUSSBAUMER & CLARKE, INC.
A CORPORATION REGISTERED TO
PRACTICE PROFESSIONAL ENGINEERING
& LAND SURVEYING IN THE
STATE OF NEW YORK

Professional Engineer Seal
Buffalo, N.Y.

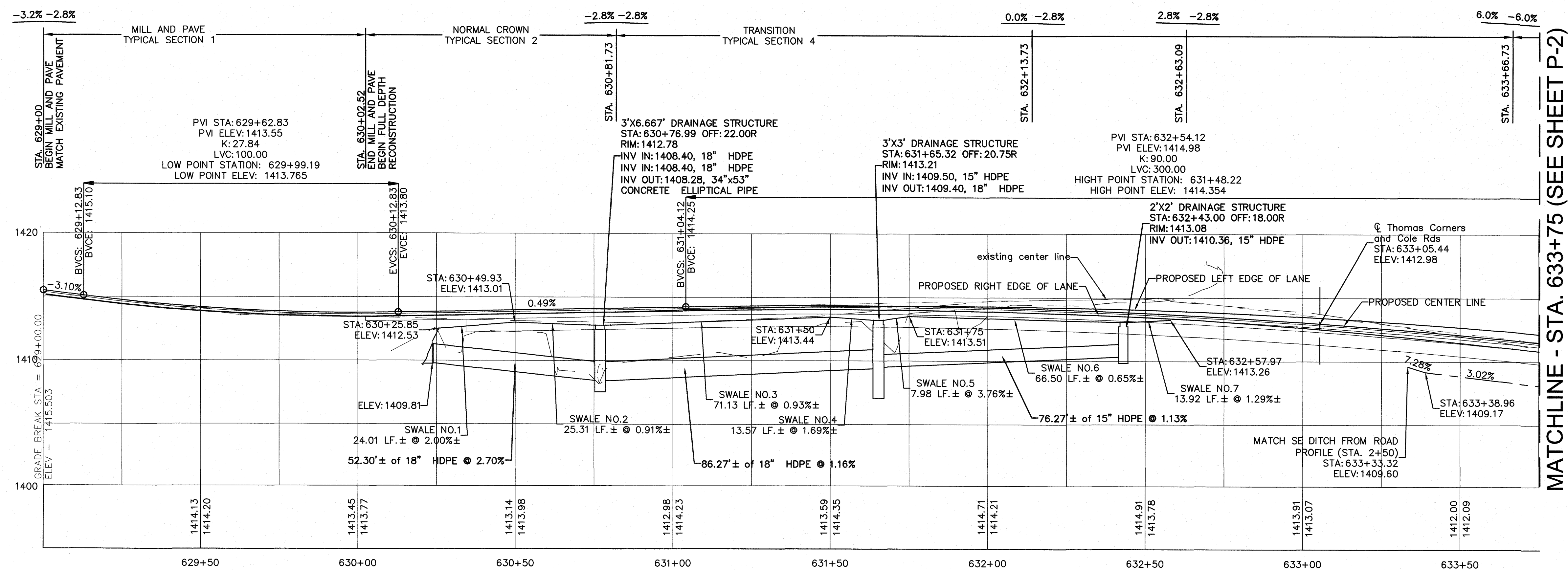
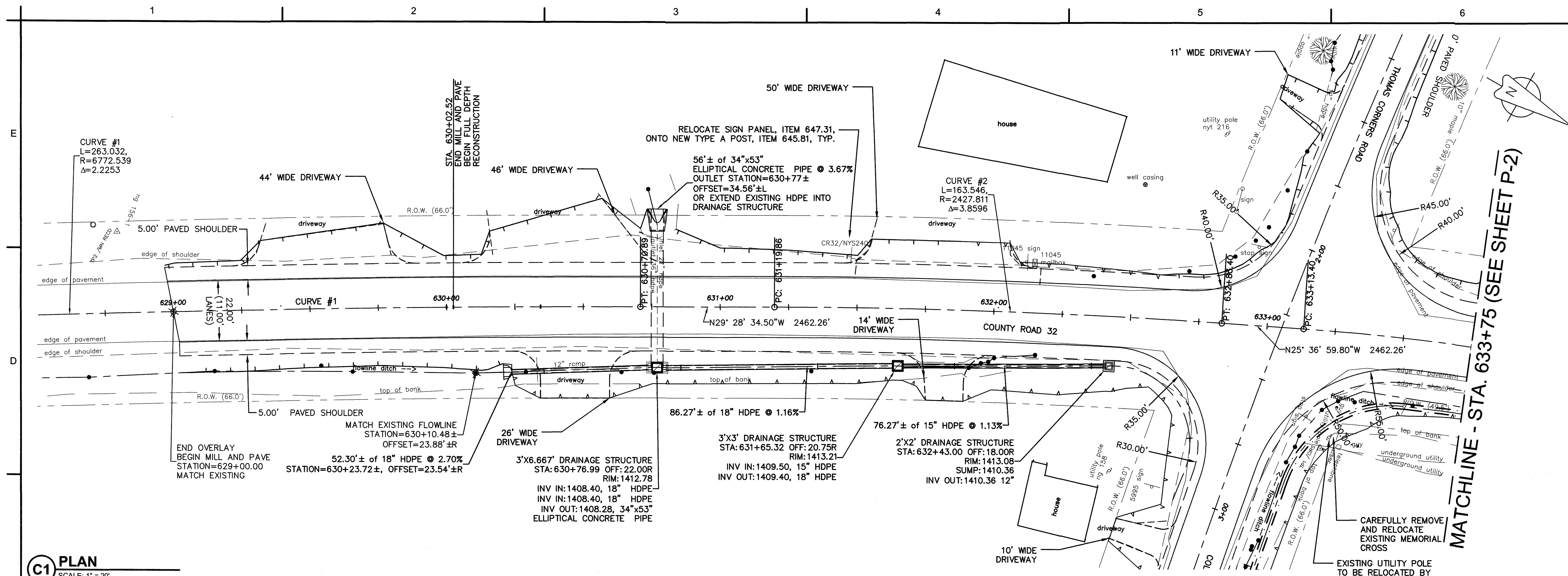
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
ENGINEERING DRAWING IS A VIOLATION OF
SECTION 7209, PROVISION 2 OF THE NEW YORK STATE
EDUCATION LAW.

PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
1" = 1 INCH	
SHEET No.	5 OF 9
ECP-1	

A1 EROSION CONTROL PLAN
SCALE: 1" = 40'

EROSION CONTROL LEGEND

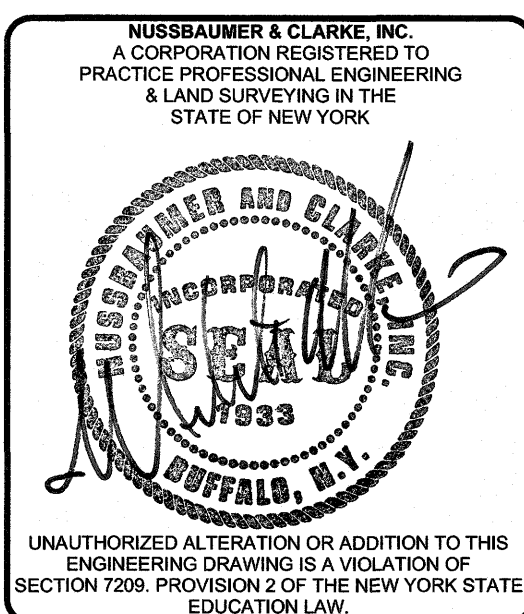
- SF SILT FENCE
- SCE STABILIZED CONSTRUCTION ENTRANCE
- FFIP FILTER FABRIC INLET PROTECTION
- IP INLET PROTECTION IN PAVEMENT
- SOST SWALE OUTLET SEDIMENT TRAP
- SILT FENCE AROUND CATCH BASIN



COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

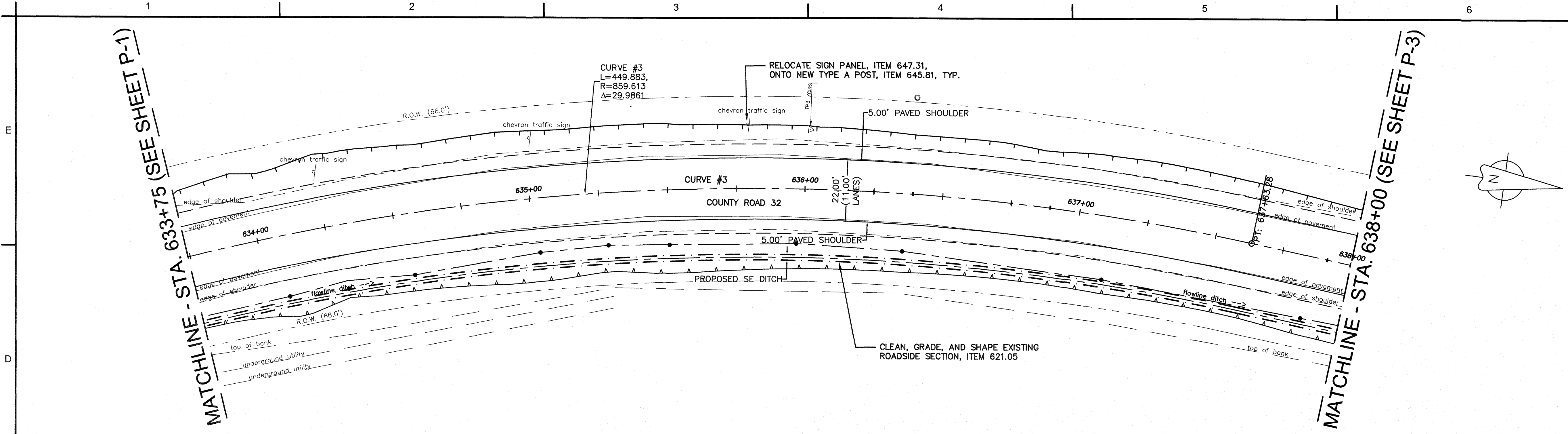
PLAN AND PROFILE

COUNTY ROAD 32

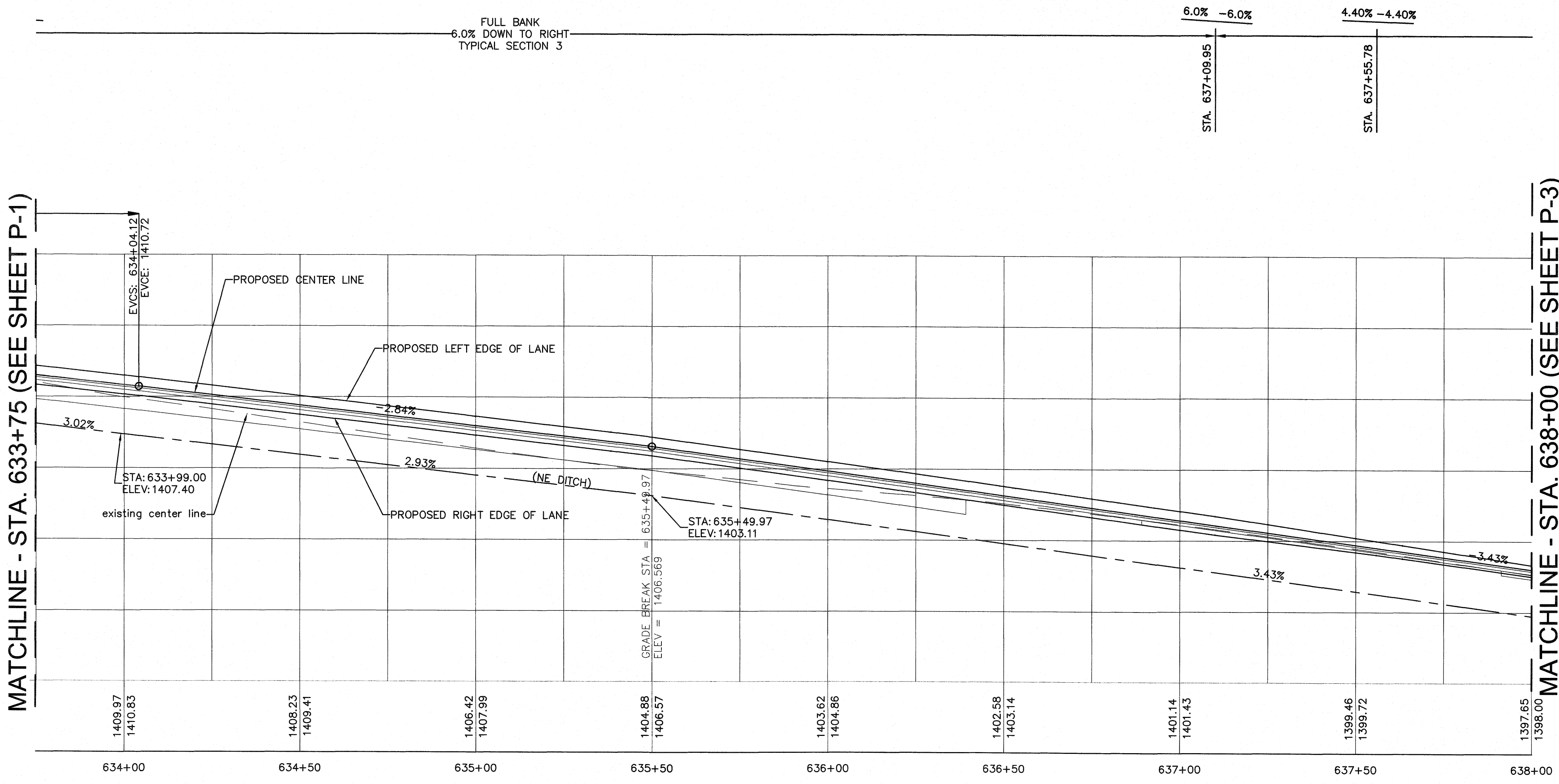
[illegible]

PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
 = 1 INCH	
SHEET No.	6 OF 9

P-1



D1 PLAN
SCALE: 1" = 20'



A1 PROFILE
SCALE: 1" = 20' HOR. 1" = 5' VER.

NUSSBAUMER & CLARKE, INC.
ENGINEERS AND SURVEYORS
EST. 1933
3556 Lake Shore Road, Suite 500 | Buffalo, NY 14219
(716) 827-8000 | (716) 825-7558 fax
www.nussclarke.com

COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

**PLAN AND PROFILE
COUNTY ROAD 32**

REVISIONS		
No.	DESCRIPTION	DATE
0		

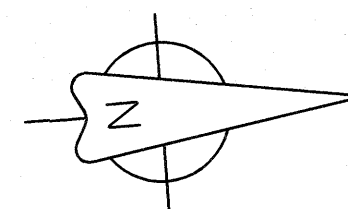
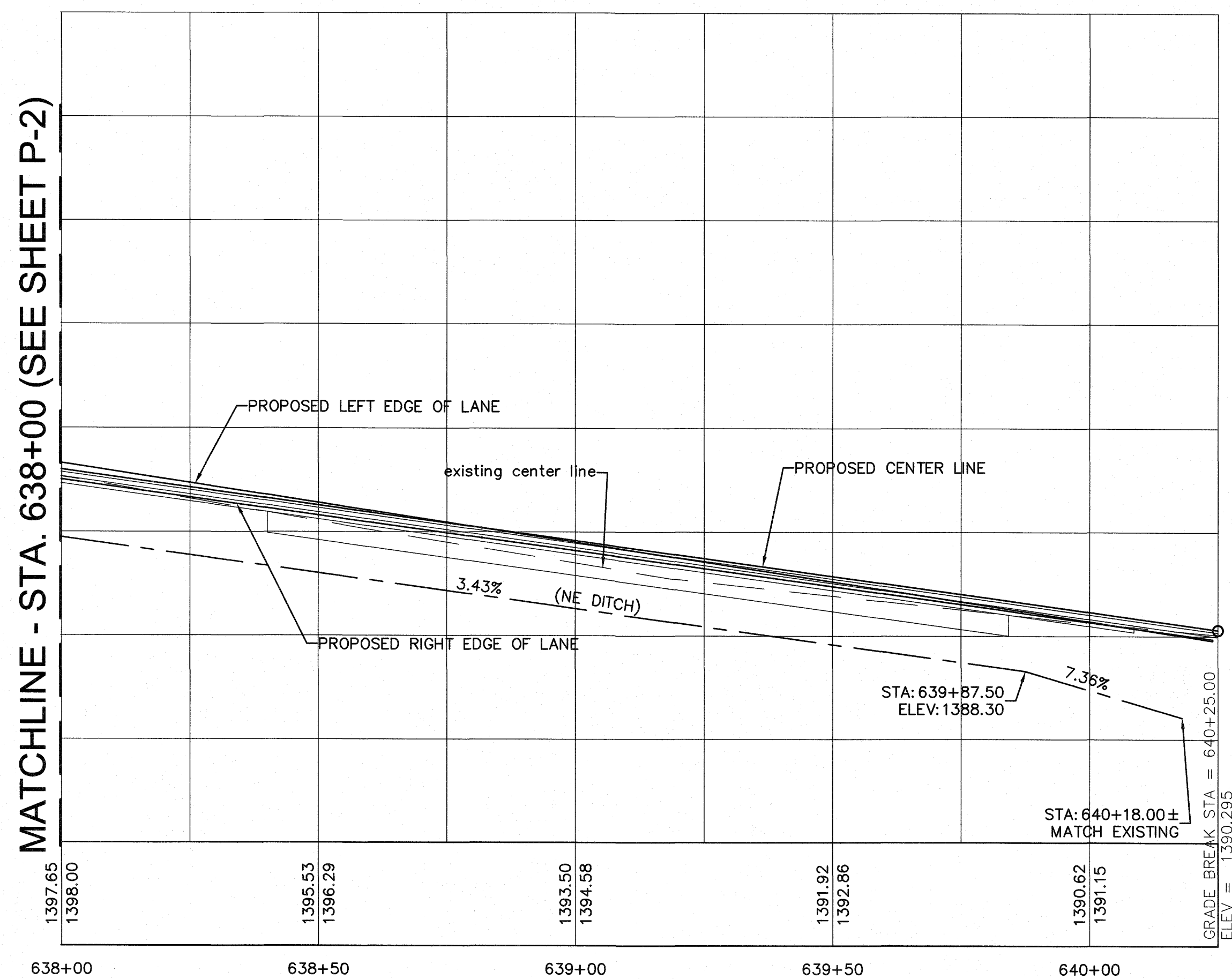
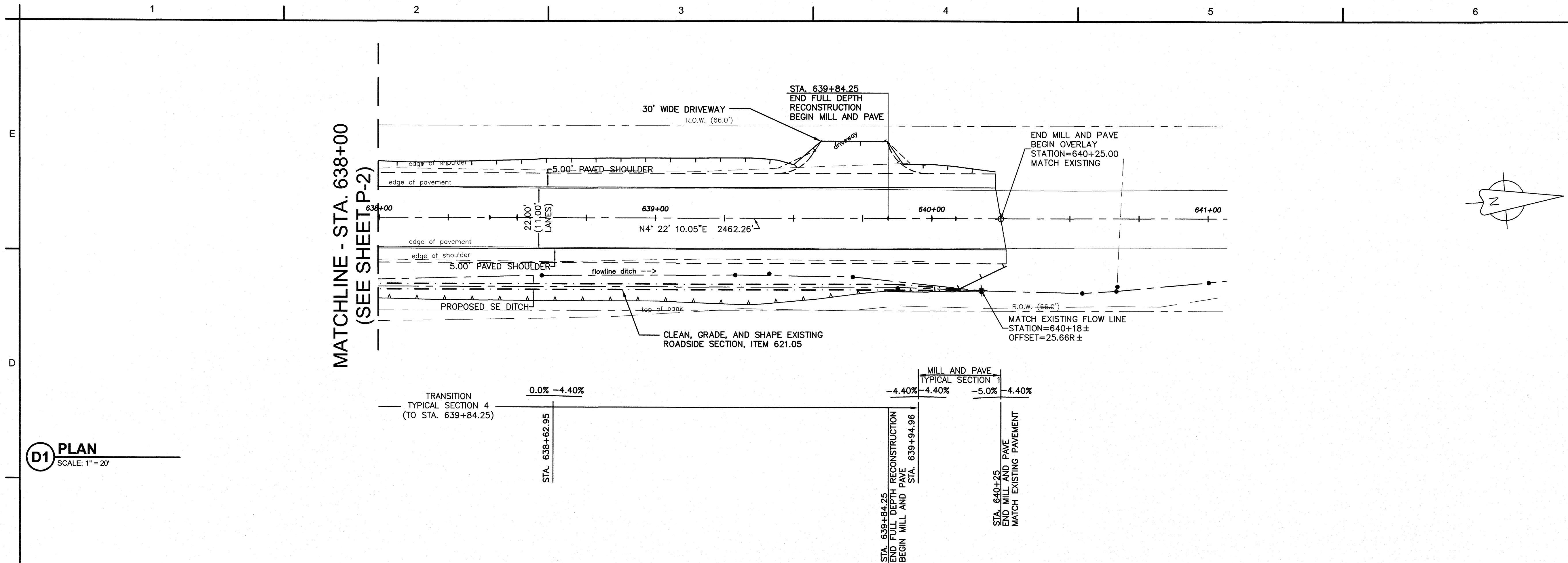
NUSSBAUMER & CLARKE, INC.
A CORPORATION REGISTERED TO
PRACTICE PROFESSIONAL ENGINEERING
& LAND SURVEYING IN THE
STATE OF NEW YORK

NUSSBAUMER & CLARKE, INC.
INCORPORATED
1933
BUFFALO, N.Y.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
ENGINEERING DRAWING IS A VIOLATION OF
SECTION 7209, PROVISION 2 OF THE NEW YORK STATE
EDUCATION LAW.

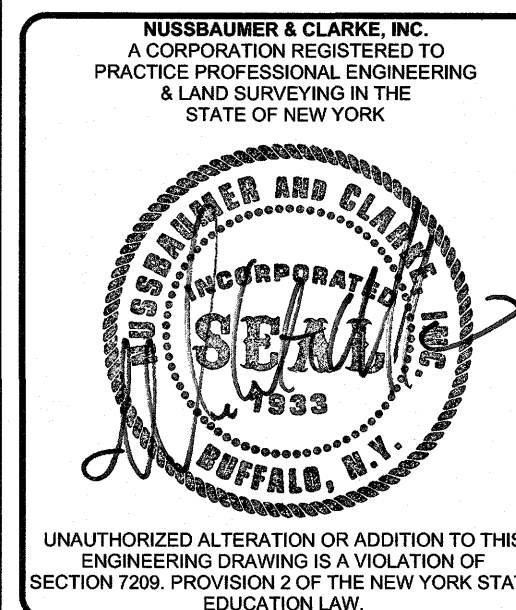
PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
1" = 1 INCH	
SHEET No.	7 OF 9

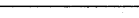
P-2



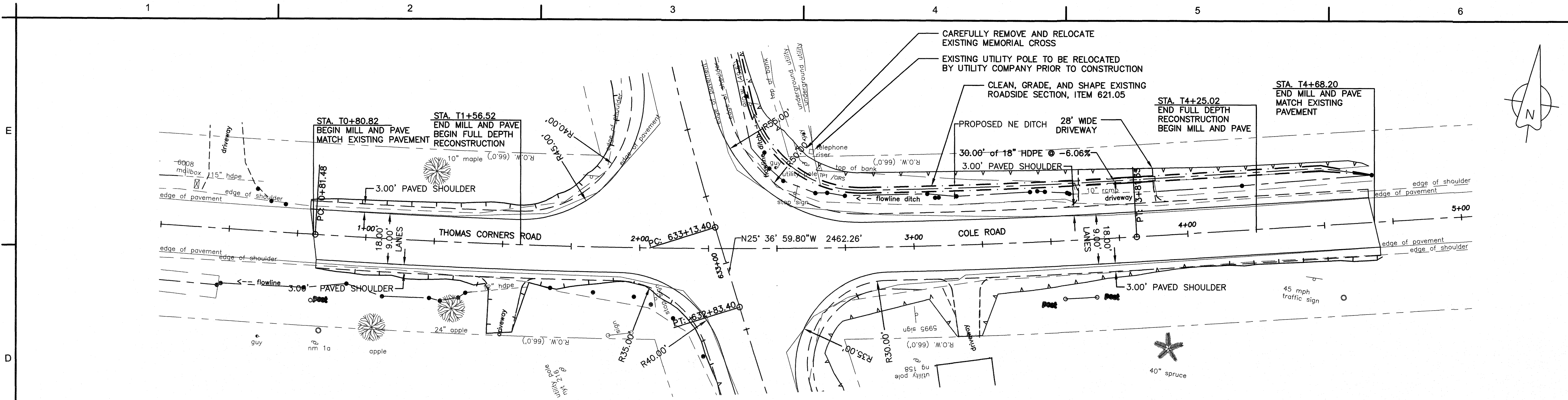
COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

**PLAN AND PROFILE
COUNTY ROAD 32**

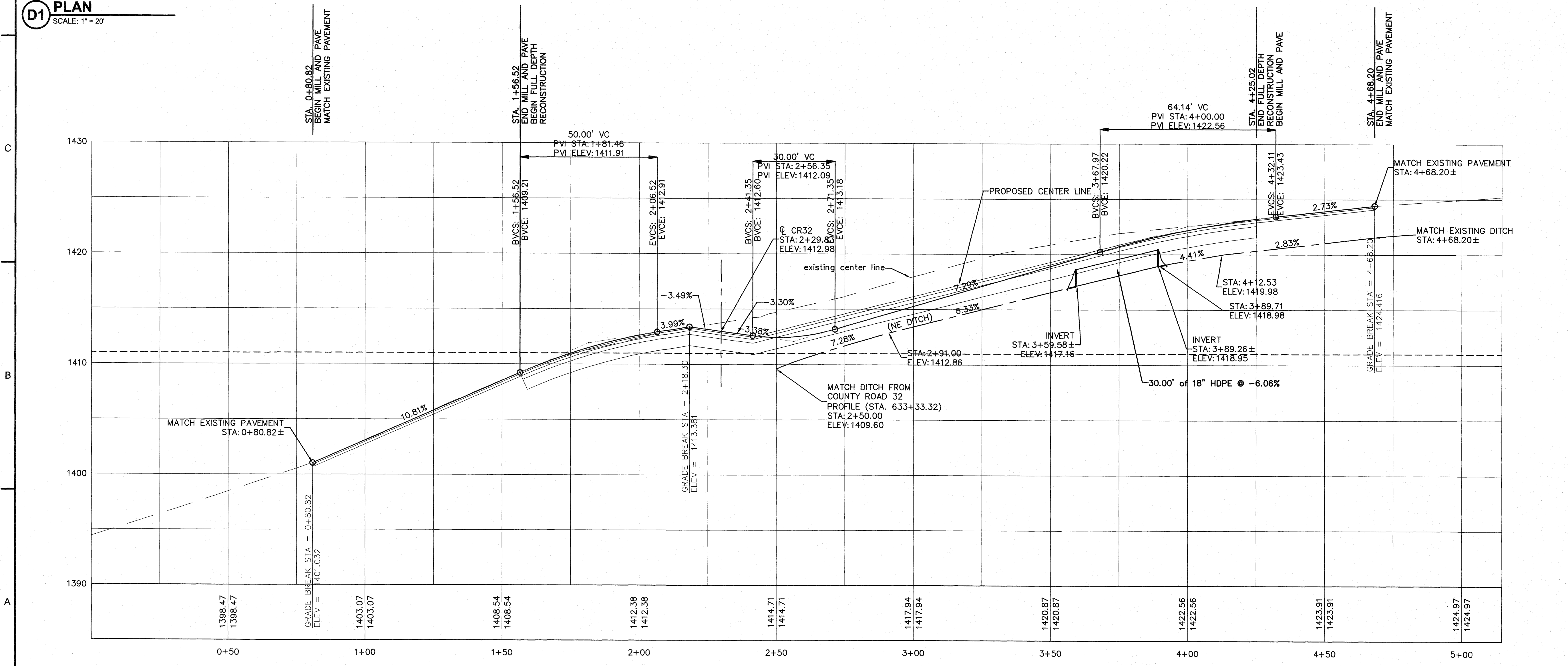
[illegible]

PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CR
APPROVED BY	MTM
SCALE:	AS NOTED
 = 1 INCH	
SHEET No.	8 OF

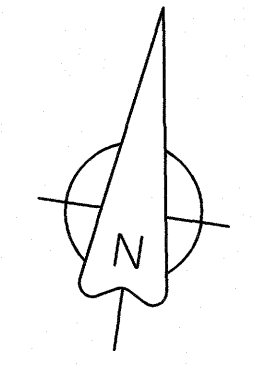
P-3



D1 PLAN
SCALE: 1" = 20'



A1 PROFILE
SCALE: 1" = 20' HOR. 1" = 5' VER.



NUSSBAUMER & CLARKE, INC.
ENGINEERS AND SURVEYORS
EST. 1933
3556 Lake Shore Road, Suite 500 | Buffalo, NY 14219
(716) 827-8000 | (716) 825-7958 fax
www.nussclark.com

COUNTY ROAD 32
THOMAS CORNERS AND COLE ROAD
INTERSECTION RECONSTRUCTION
TOWN OF ASHFORD

**PLAN AND PROFILE
THOMAS CORNERS ROAD
AND COLE ROAD**

REVISIONS		
No.	DESCRIPTION	DATE
0		

NUSSBAUMER & CLARKE, INC.
A CORPORATION REGISTERED TO
PRACTICE PROFESSIONAL ENGINEERING
& LAND SURVEYING IN THE
STATE OF NEW YORK

INCORPORATED 1933
BUFFALO, N.Y.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
ENGINEERING DRAWING IS A VIOLATION OF
SECTION 7209, PROVISION 2 OF THE NEW YORK STATE
EDUCATION LAW.

PROJECT NUMBER	17J1-0190
DATE	JULY 2018
DRAWN BY	IR
DESIGNED BY	IR
CHECKED BY	CRK
APPROVED BY	MTM
SCALE:	AS NOTED
1" = 1 INCH	
SHEET No.	9 OF 9
P-4	