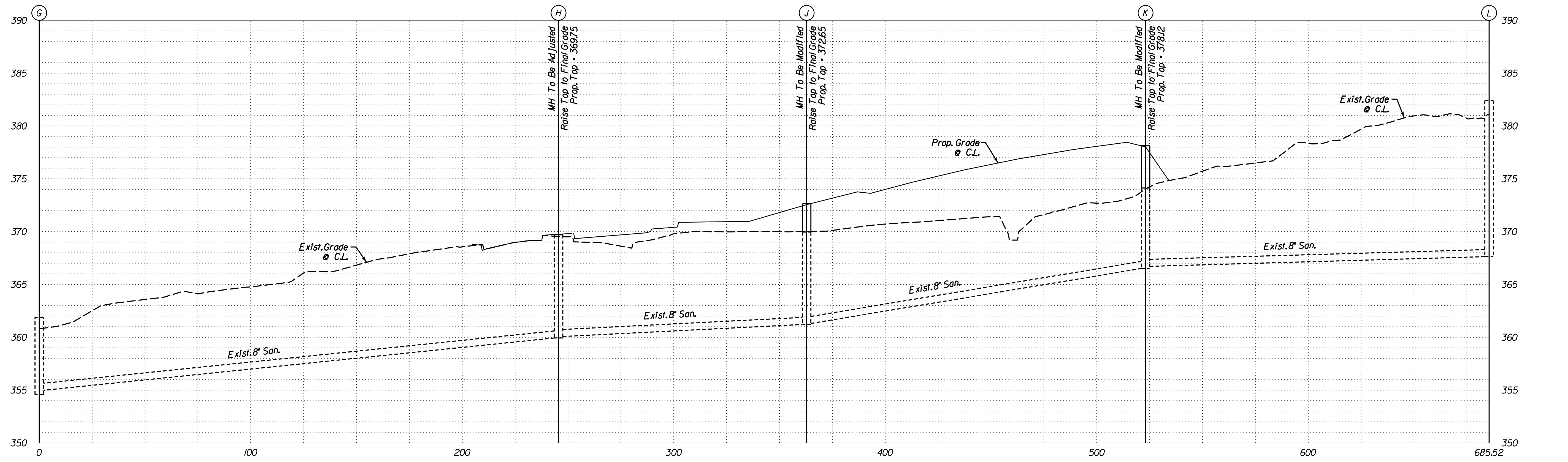
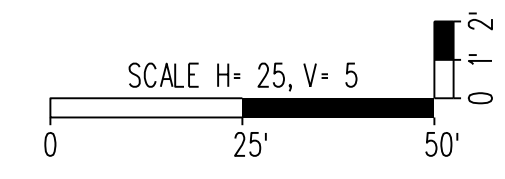


PROJECT MANAGER: Anne Geisler, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

EXISTING 8" SANITARY PROFILE
 MANHOLE "L" TO MANHOLE "G"



ⓐ Ex. Sanitary M.H.
 Ex. Top=361.88
 Ex. Inv. In=354.98
 Ex. Inv. Out=354.58

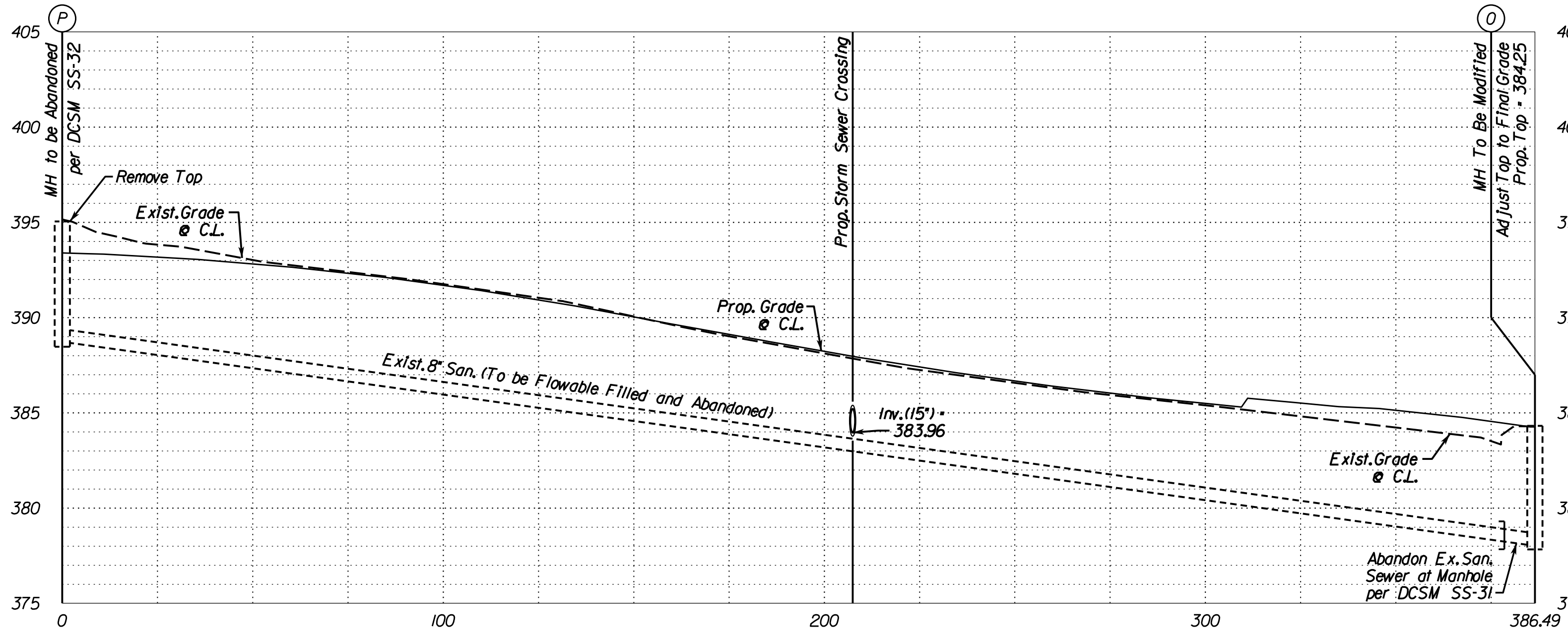
ⓓ Ex. Sanitary M.H.
 Ex. Top=369.70
 Ex. Inv. In=360.13 (From I)
 Ex. Inv. In=360.07 (From J)

ⓔ Ex. Sanitary M.H.
 Ex. Top=369.96
 Ex. Inv. In=361.31
 Ex. Inv. Out=361.21

ⓖ Ex. Sanitary M.H.
 Ex. Top=374.13
 Ex. Inv. In=366.71
 Ex. Inv. Out=366.51

ⓓ Ex. Sanitary M.H.
 Ex. Top=382.41
 Ex. Inv. In=367.83
 Ex. Inv. Out=367.63

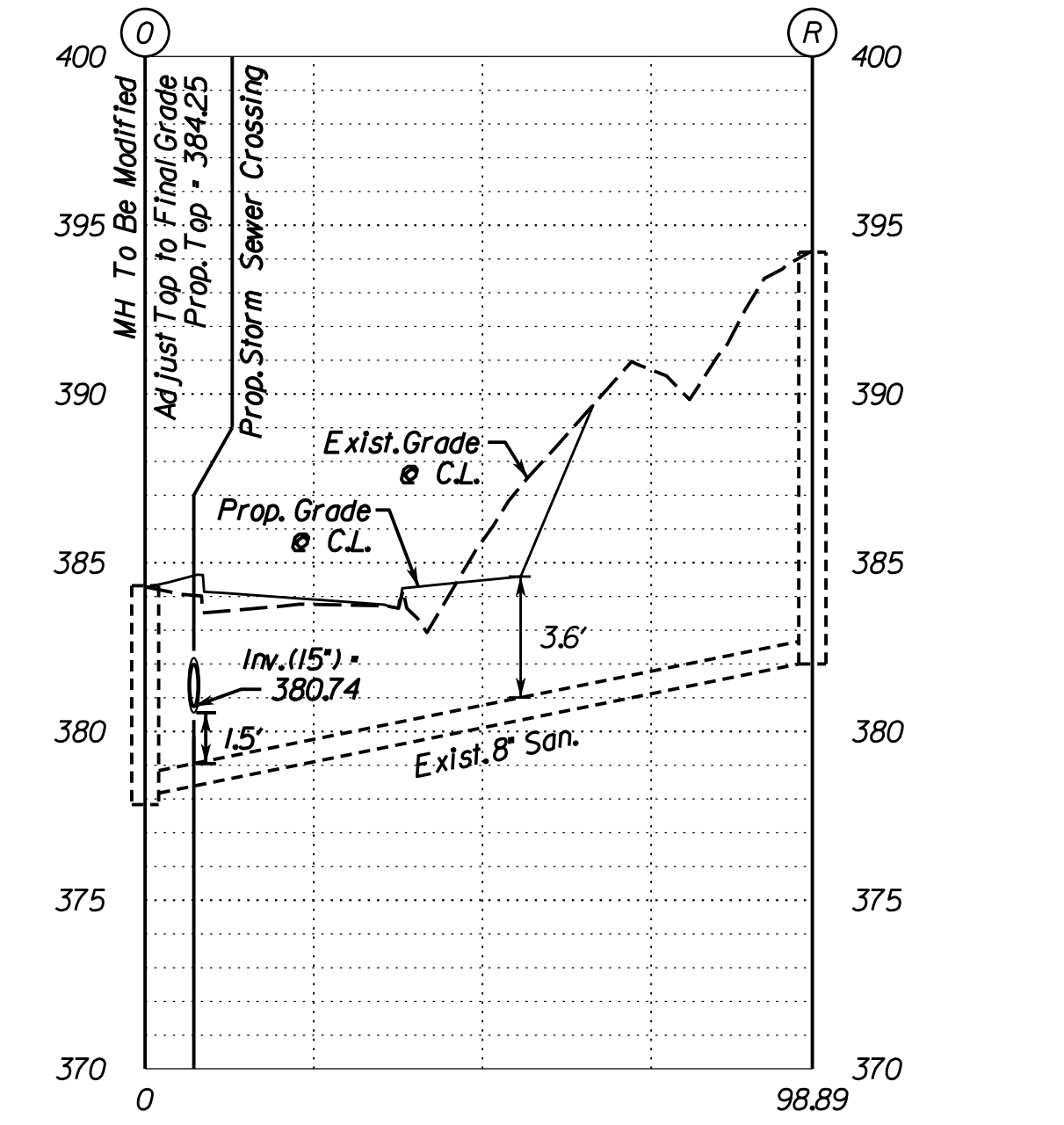
EXISTING 8" SANITARY PROFILE
 MANHOLE "P" TO MANHOLE "O"



ⓐ Ex. Sanitary M.H.
 Ex. Top=395.05
 Ex. Inv. In=388.67
 Ex. Inv. Out=388.47

ⓓ Ex. Sanitary M.H.
 Ex. Top=384.32
 Ex. Inv. In=378.07 (From P - To be Plugged)
 Ex. Inv. In=378.17 (From Unknown)
 Ex. Inv. Out=377.83

EXISTING 8" SANITARY PROFILE
 MANHOLE "R" TO MANHOLE "O"



ⓓ Ex. Sanitary M.H.
 Ex. Top=384.32
 Ex. Inv. In=378.07 (From P - To be Plugged)
 Ex. Inv. In=378.17 (From R)
 Ex. Inv. Out=377.83

ⓓ Ex. Sanitary M.H.
 Ex. Top=394.20
 Ex. Inv. In=382.02
 Ex. Inv. Out=382.00

PROJECT NAME: SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.
 SANITARY SEWER PROFILES
 Loudoun County, Virginia
 Town of Leesburg
 SUBMISSION DATE: 02/21/2018

ENGINEER: Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6000 Decoye Blvd., Suite 200, Manassas Virginia 20108 on the web @ www.rinkerd.com
 Telephone: (703) 368-7373 Fax: (703) 375-5443
 To Make Your Vision Reality

PROJECT MANAGER: MARK A. GUNN, P.E.

ASSOCIATED PLAN: TLCI-2016-0002
 C.I.P. NUMBER: U000-253-312
 VDOT PROJ. NO. U000-253-312
 TOWN NUMBER: TBD

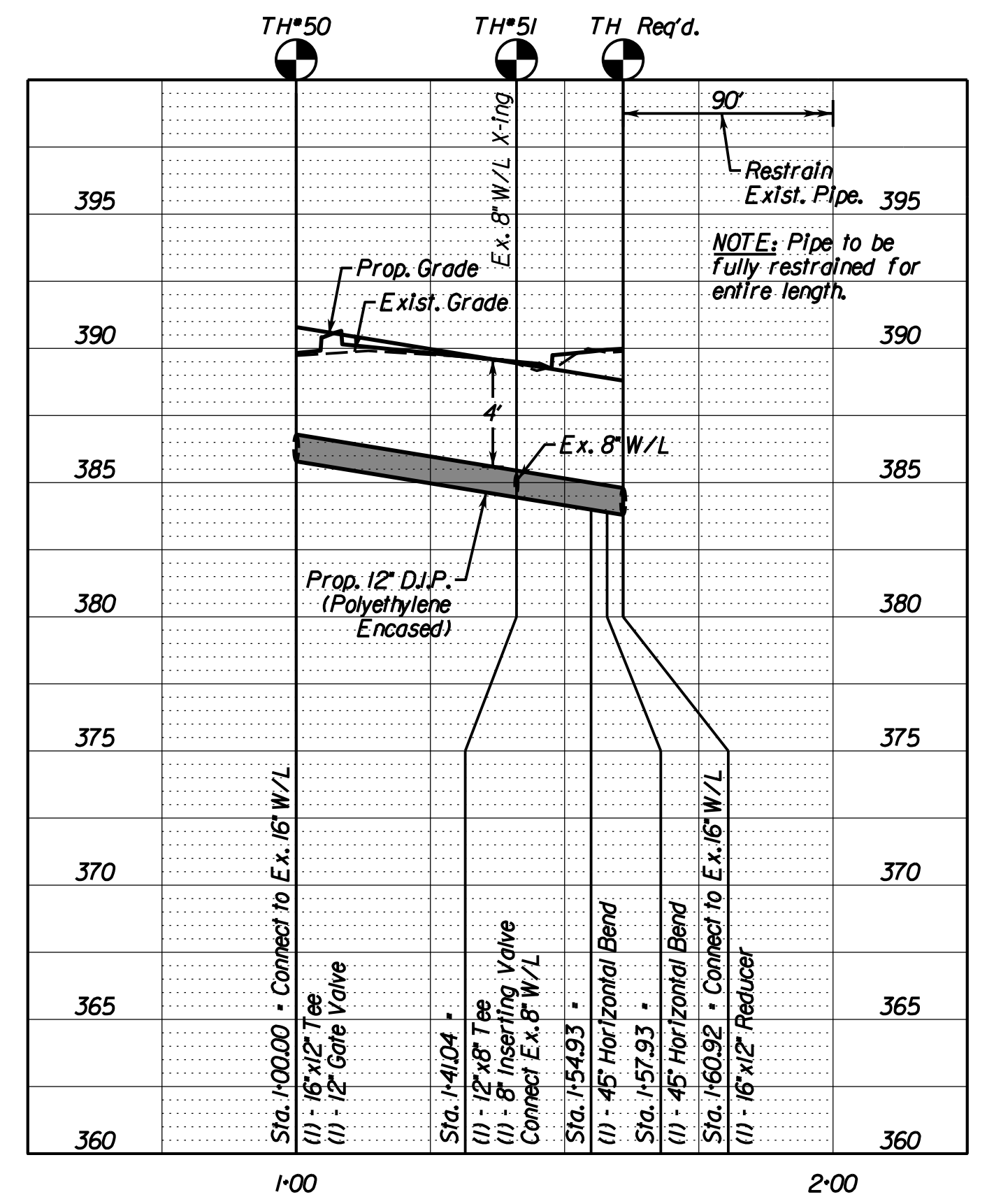
COMMONWEALTH OF VIRGINIA
 MARK A. GUNN
 Lic. No. 038323
 PROFESSIONAL ENGINEER

Mark A Gunn
 2018.02.22 18:44:59 -05'00'

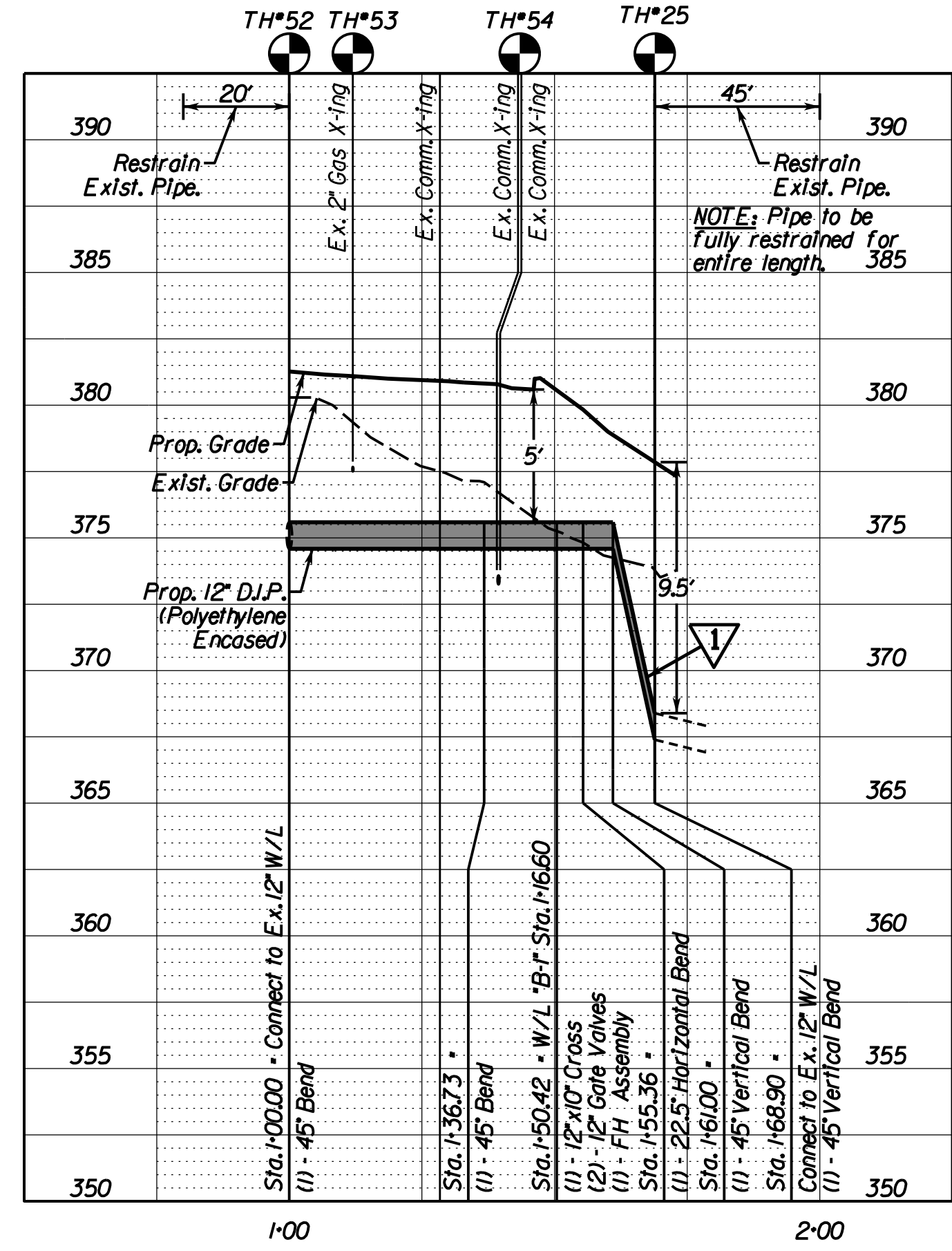
Sheet
 20B(1) of 20

PROJECT MANAGER: Anne Geiger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

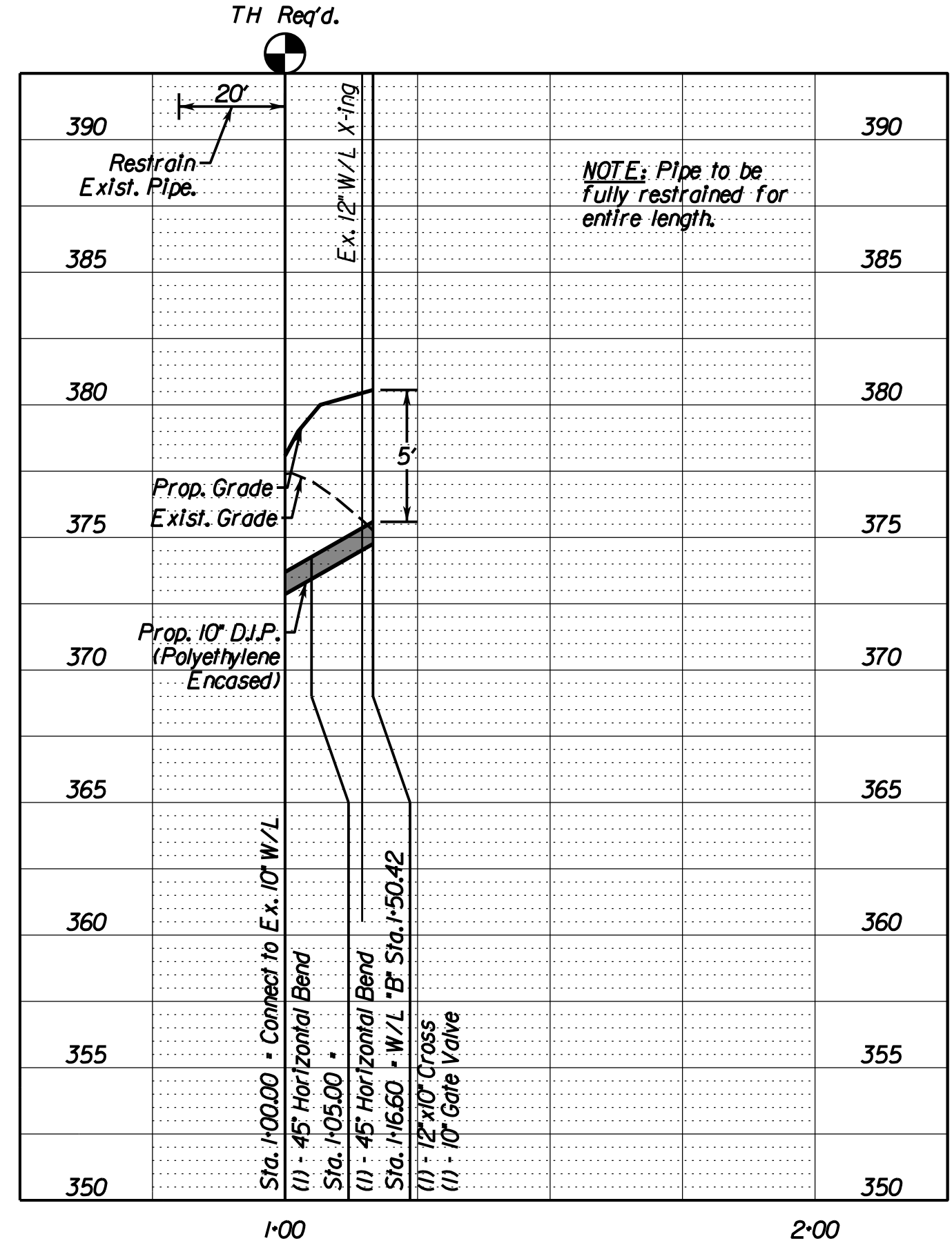
WATERLINE A PROFILE



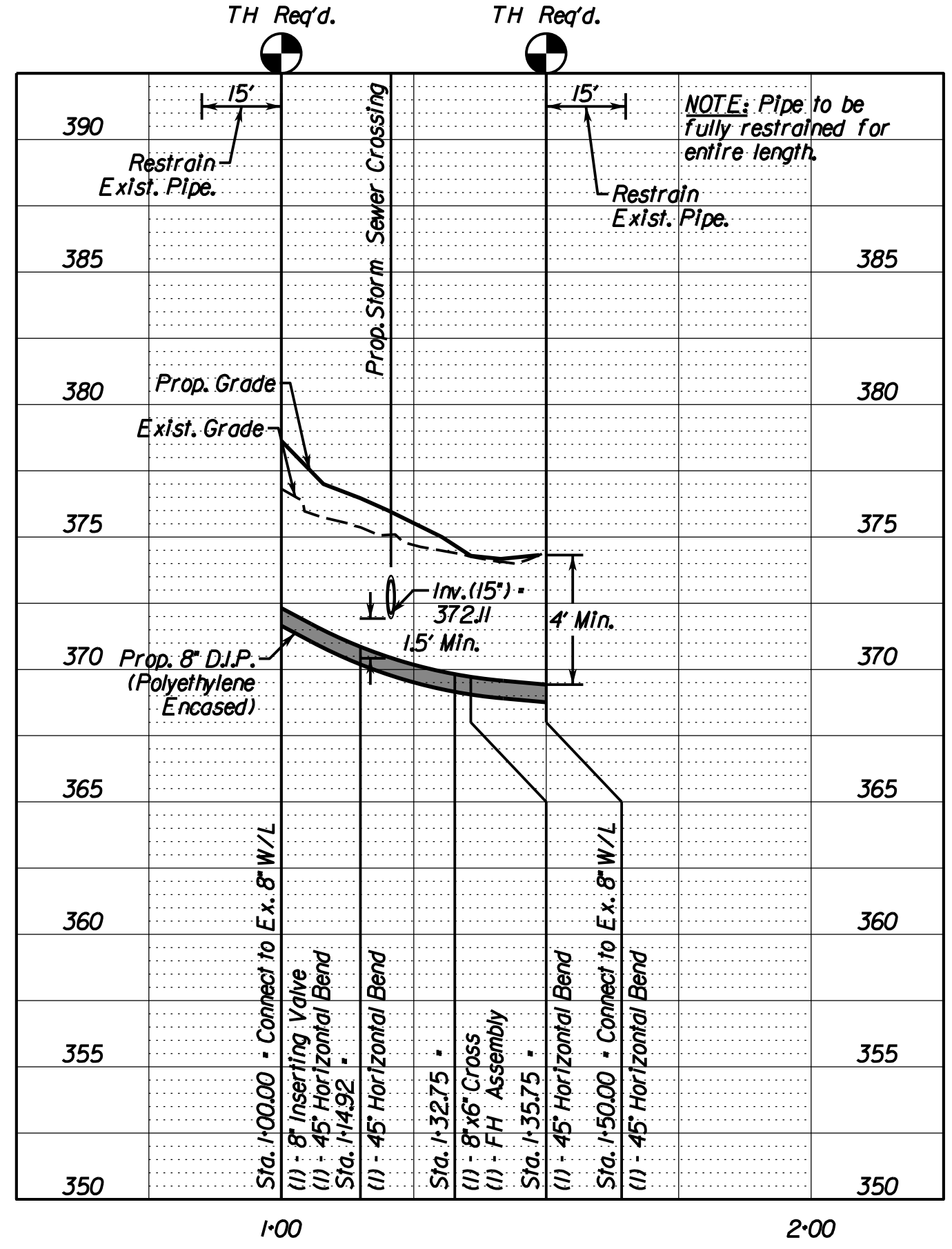
WATERLINE B PROFILE



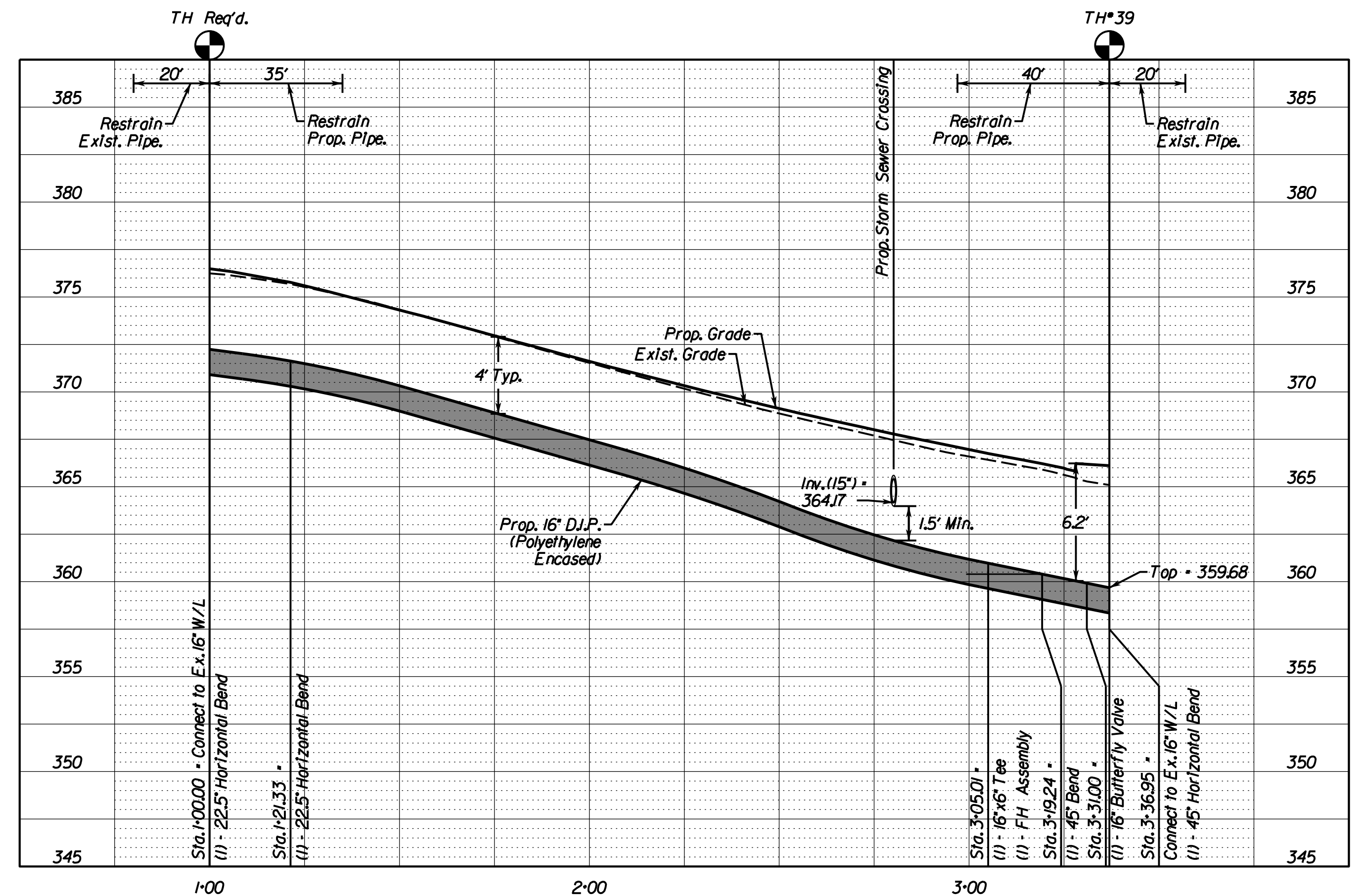
WATERLINE B-I PROFILE



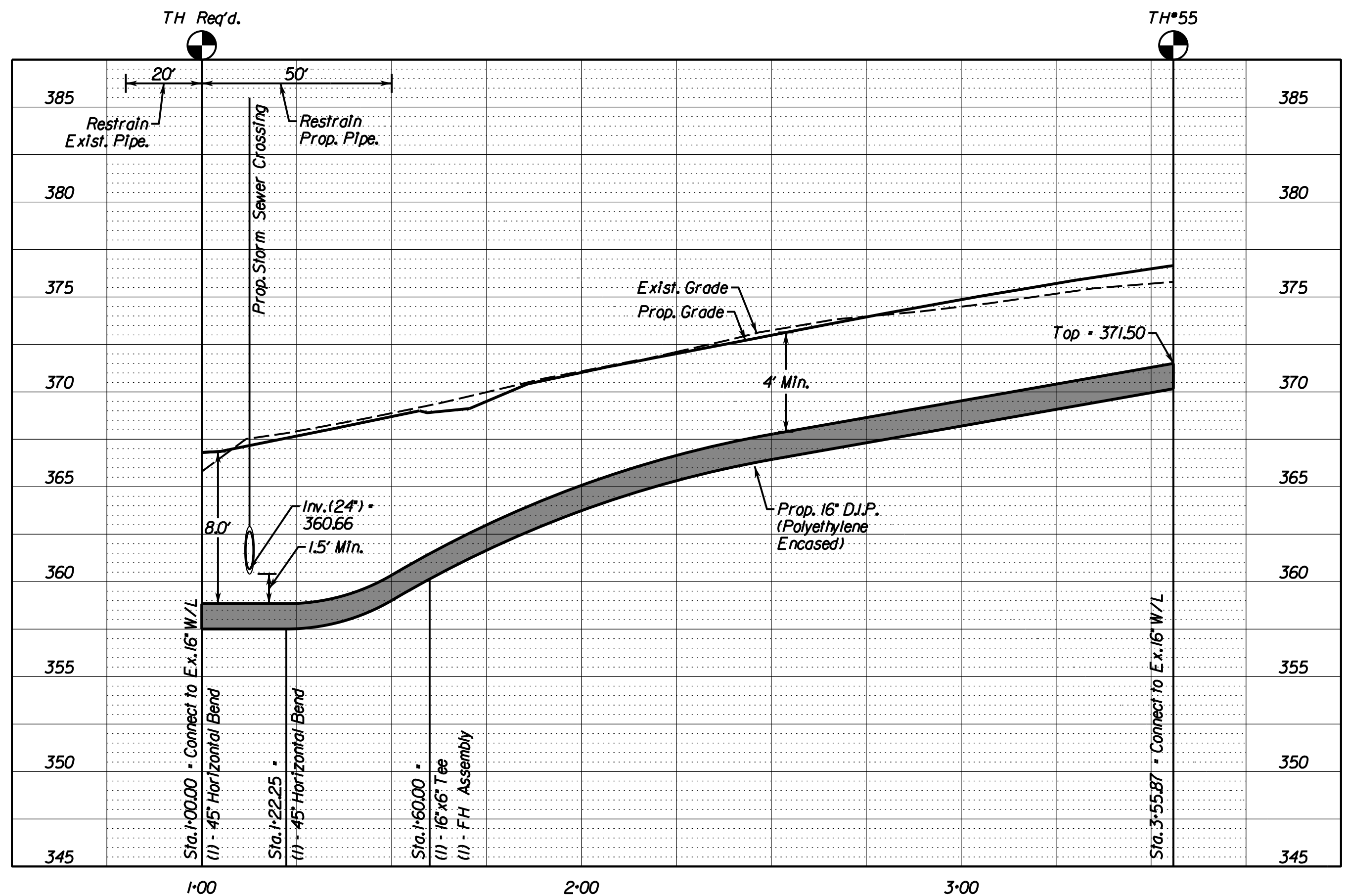
WATERLINE C PROFILE



WATERLINE D PROFILE



WATERLINE E PROFILE



MOD/INTERPRETATION OF DCSM LEGEND
 # Denotes DCSM Modification. See Sheet 1, Town of Leesburg Title Sheet.

100% PLANS

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**

ENGINEER: **Rinker Design Associates, P.C.**
 Engineering • Surveying • Land Planning • Transportation • Environmental Services
 6000 DeSoto Way, Suite 200, Manassas, Virginia 20108
 Telephone: (703) 368-7373 Fax: (703) 368-7343
 Website: www.rinker.com

PROJECT MANAGER: **MARK A. GUNN, P.E.**

WATERLINE PROFILES
 Loudoun County, Virginia

Town of Leesburg
 SUBMISSION DATE: 02/21/2018

ASSOCIATED PLAN NUMBER: **TLCI-2016-0002**
 VDOT PROJ. NO. **U000-253-312**

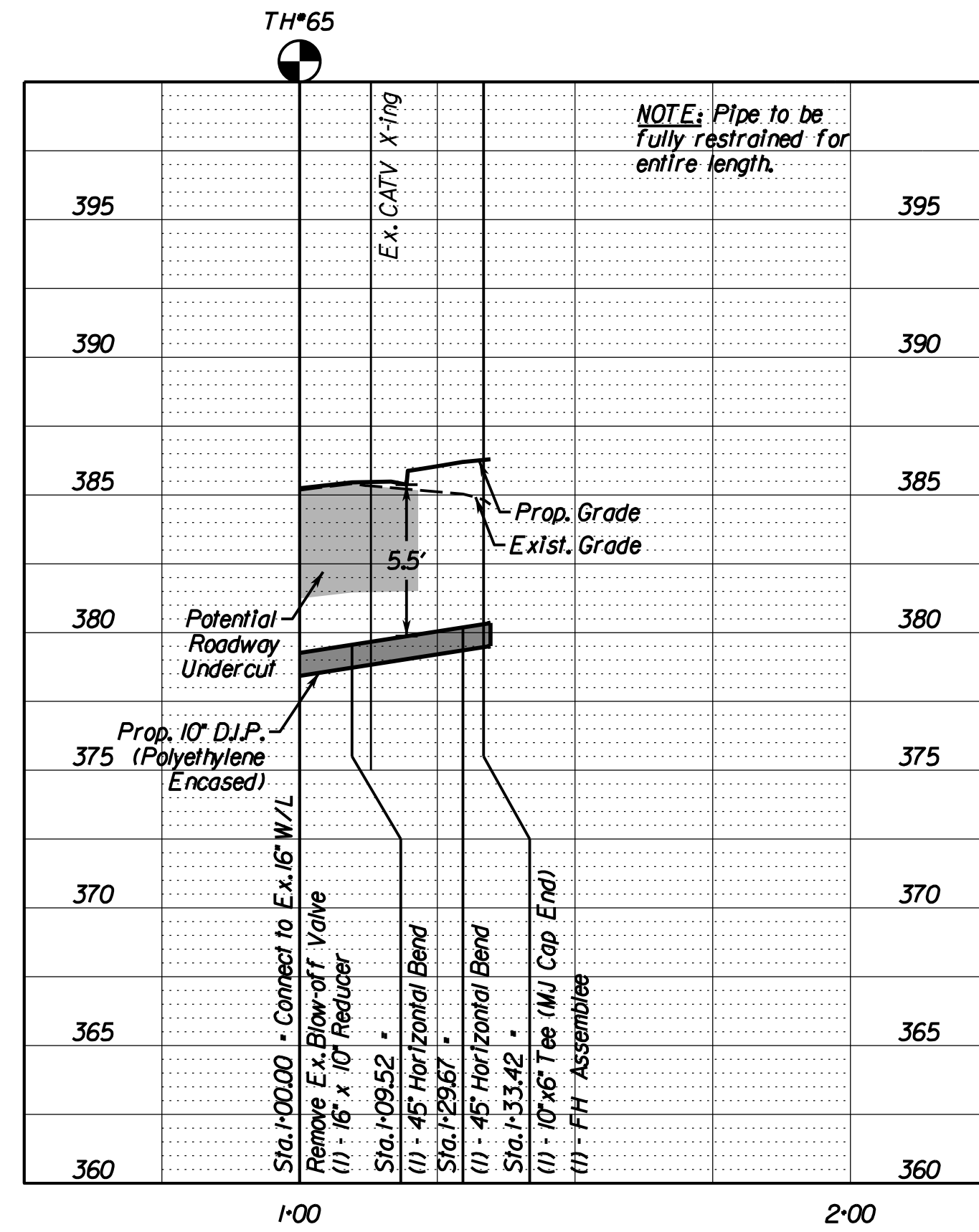
Sheet 20C of 20

PROJECT MANAGER: Anne Geisler, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY: Sidney Thomas, L.S., (703) 368-7373 (2015)
 SUBSURFACE UTILITY BY: AccuMark, (800) 542-2990 (2015)
 DESIGN SUPERVISED BY: Mark A. Gunn, P.E., (703) 368-7373
 DESIGNED BY: Sahab Qadiri, P.E., (703) 368-7373

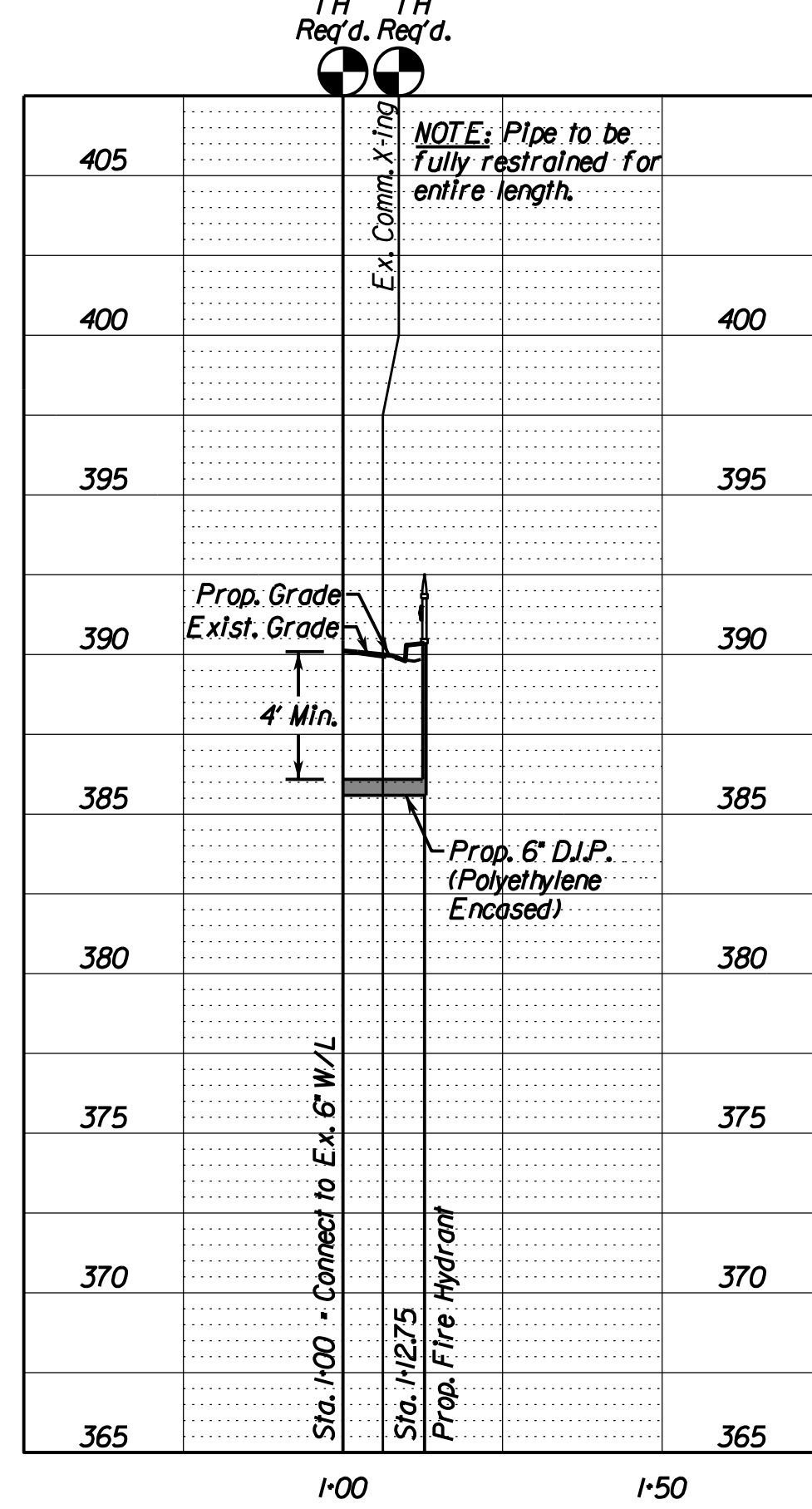
MOD/INTERPRETATION OF DCSM LEGEND

Denotes DCSM Modification. See Sheet 1, Town of Leesburg Title Sheet.

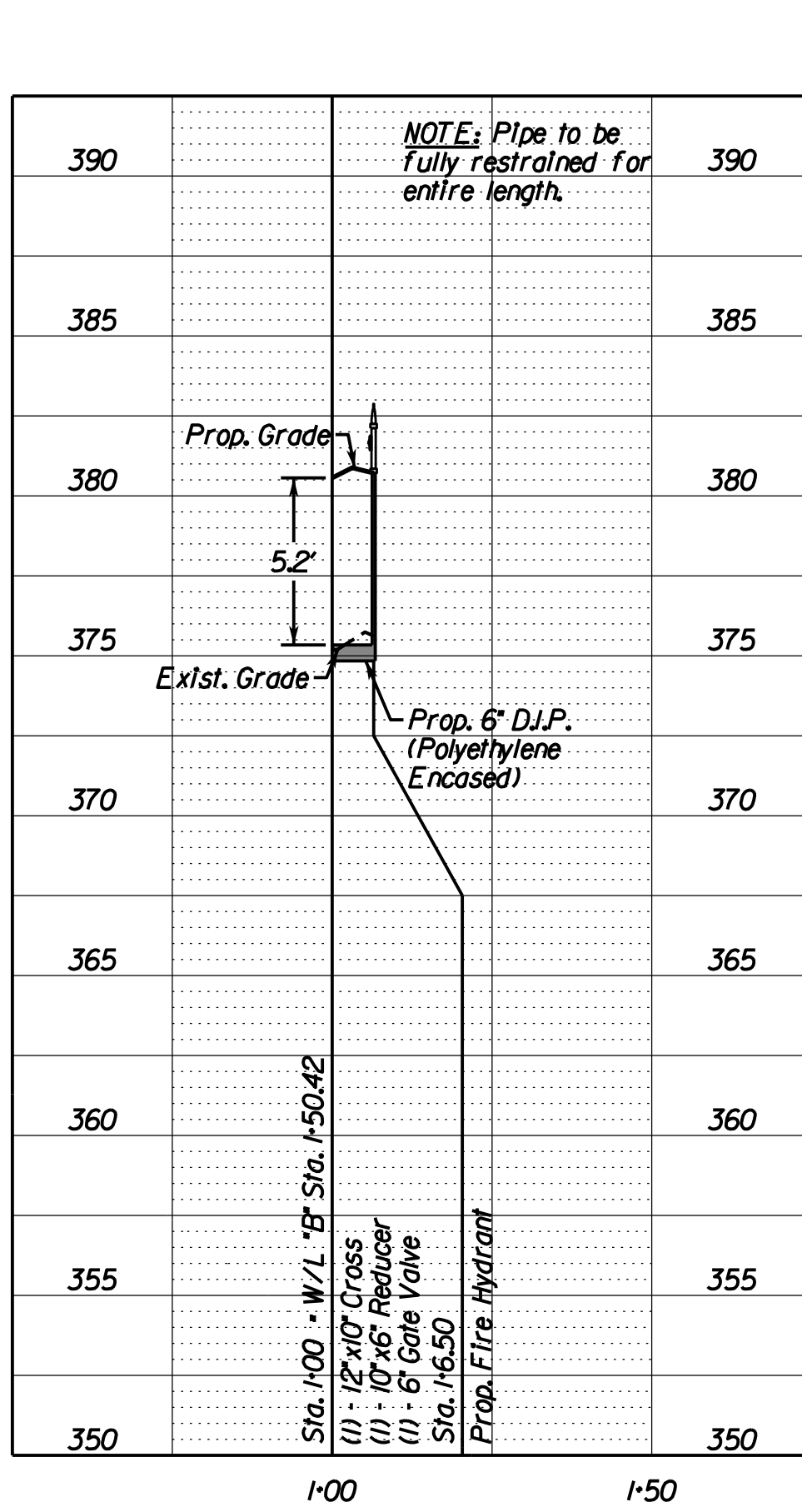
WATERLINE G PROFILE



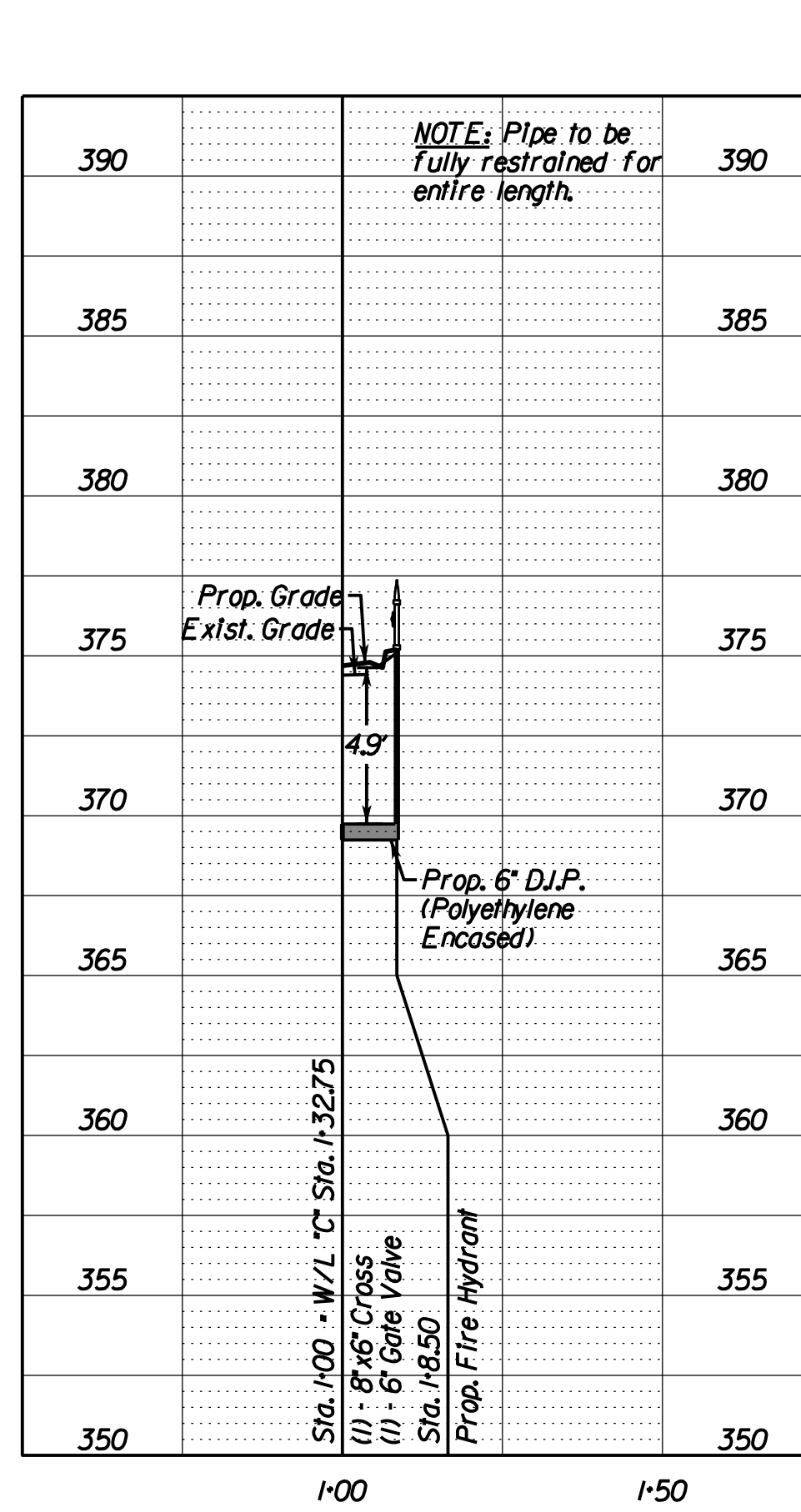
WATERLINE FH "1" PROFILE



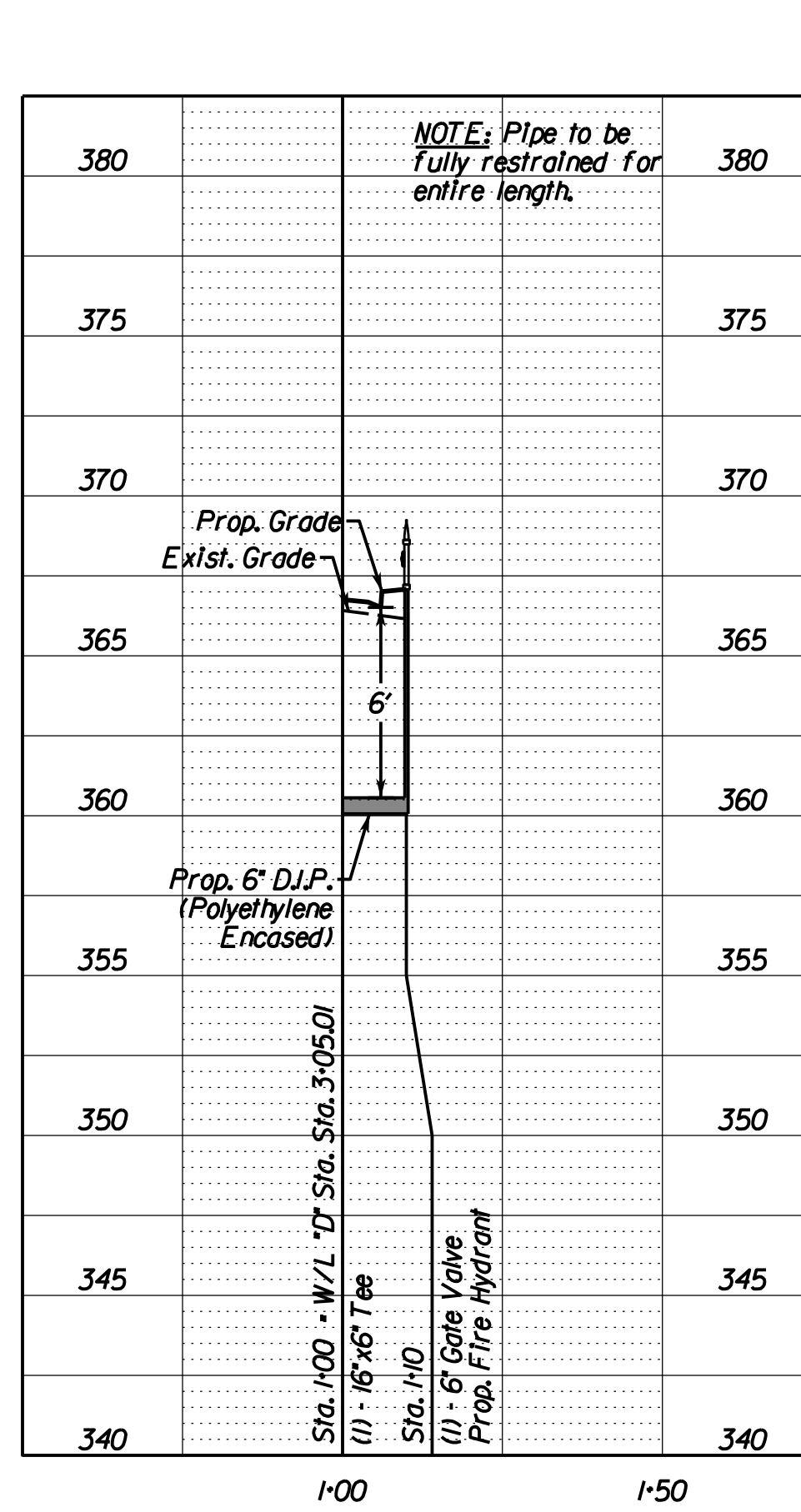
WATERLINE FH "2" PROFILE



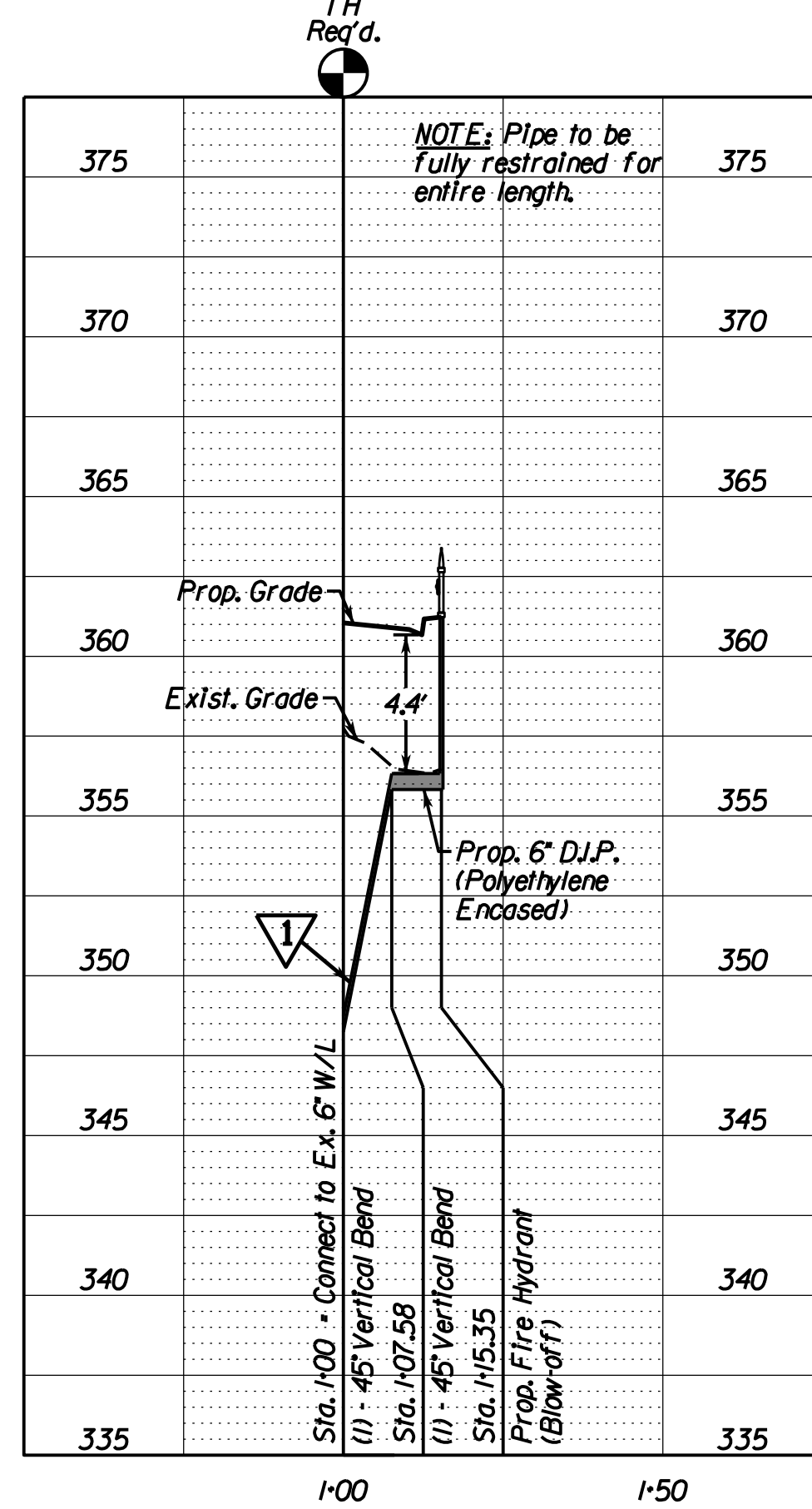
WATERLINE FH "3" PROFILE



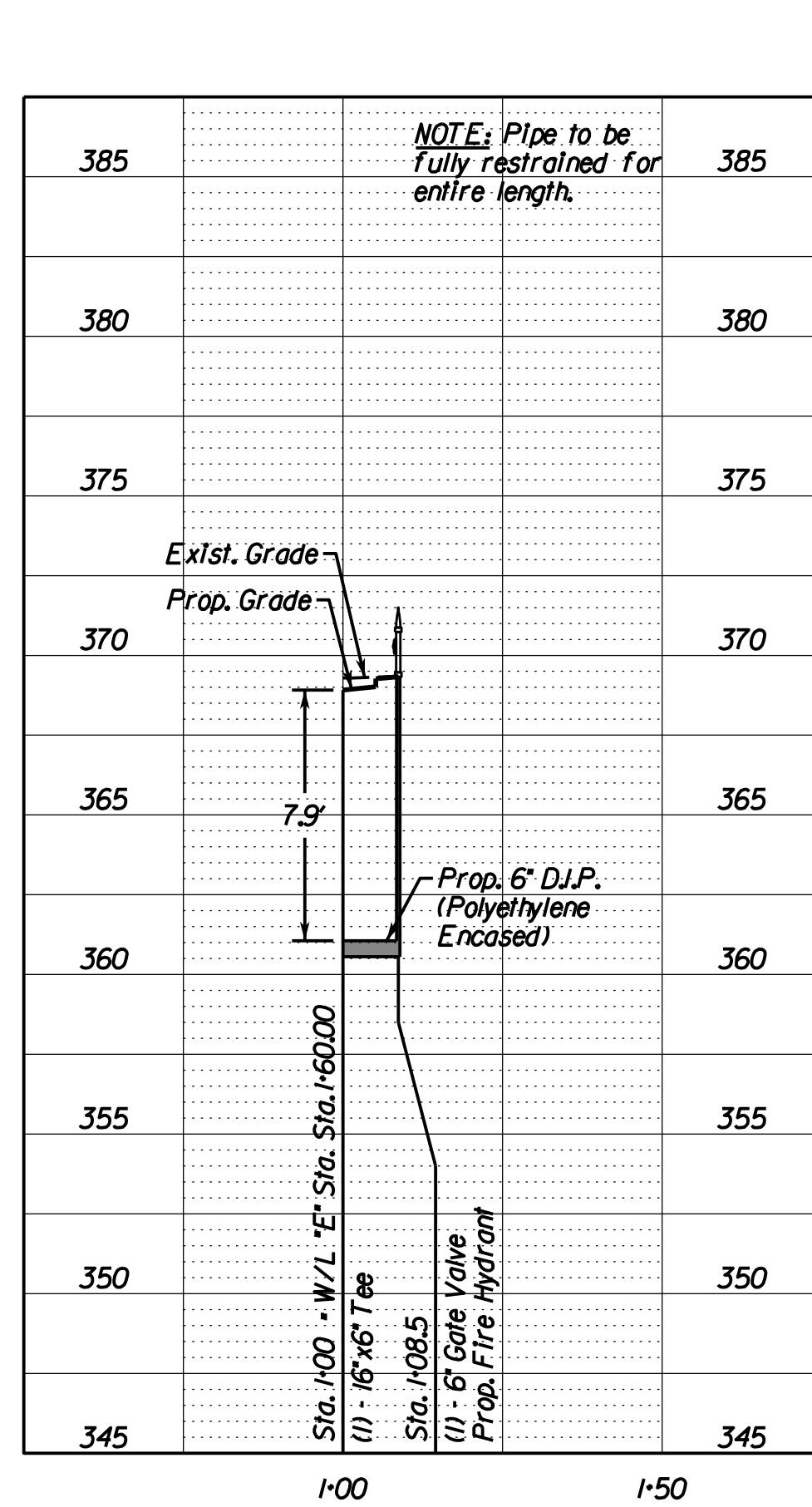
WATERLINE FH "4" PROFILE



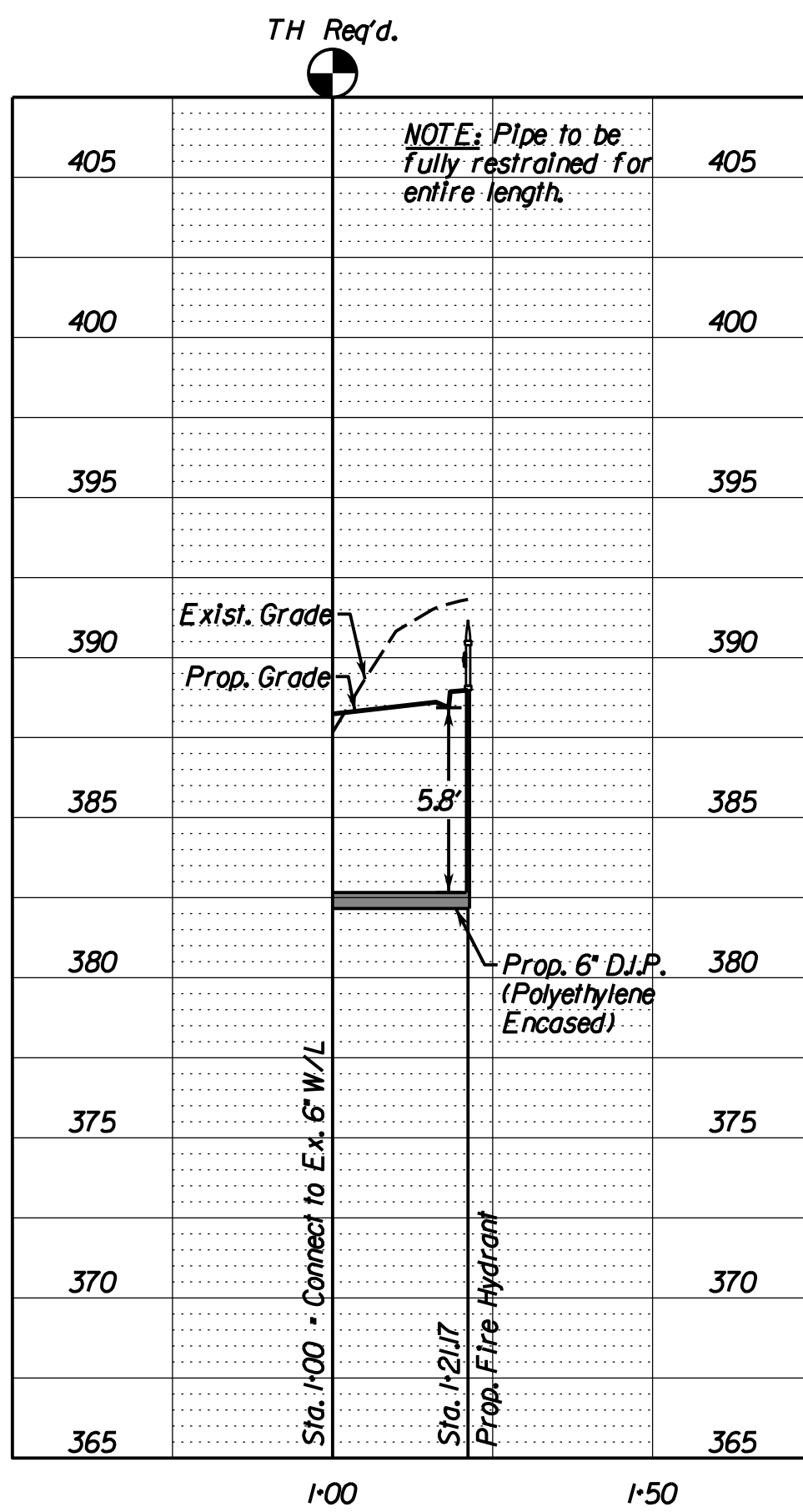
WATERLINE FH "5" PROFILE



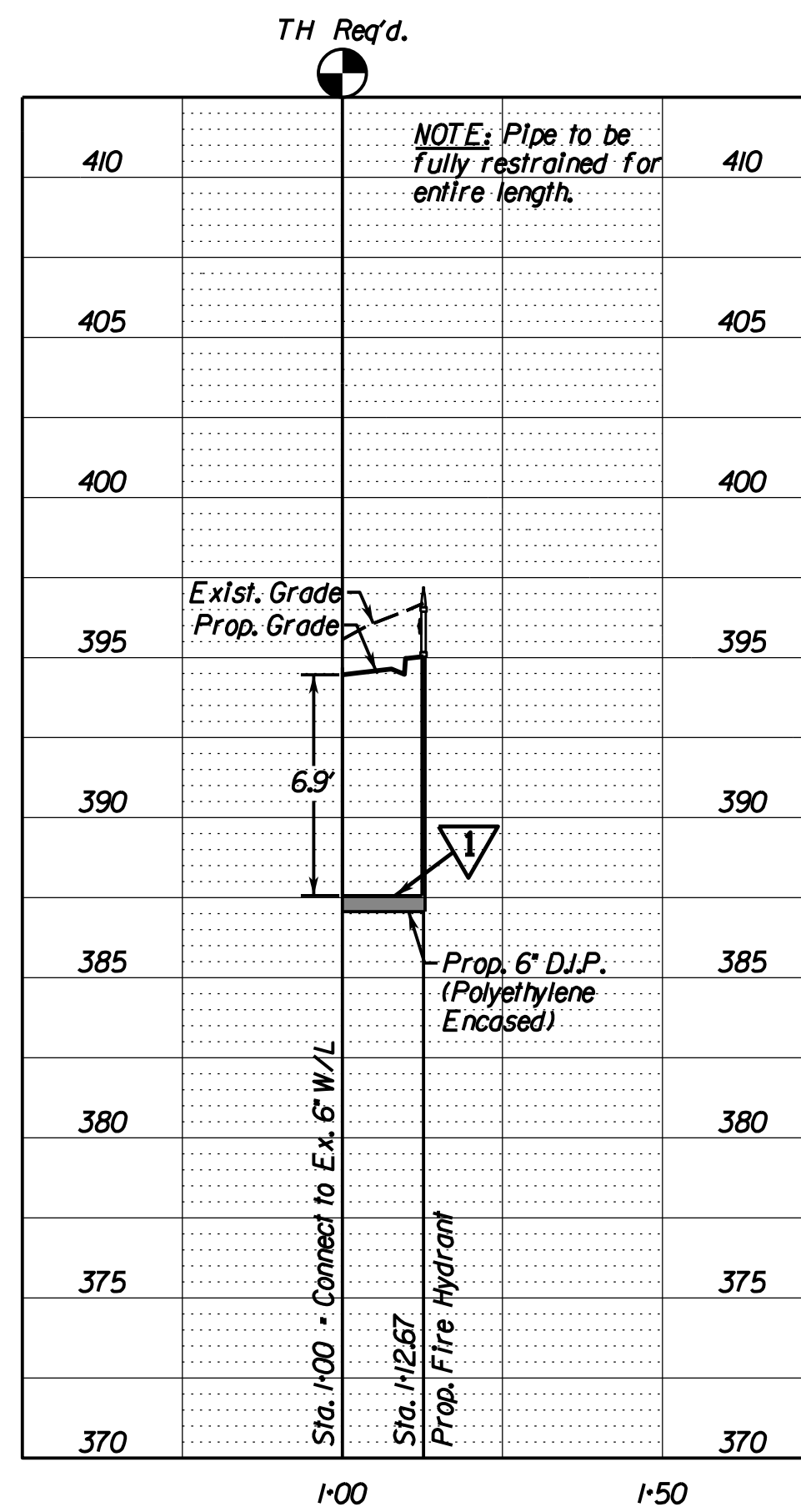
WATERLINE FH "7" PROFILE



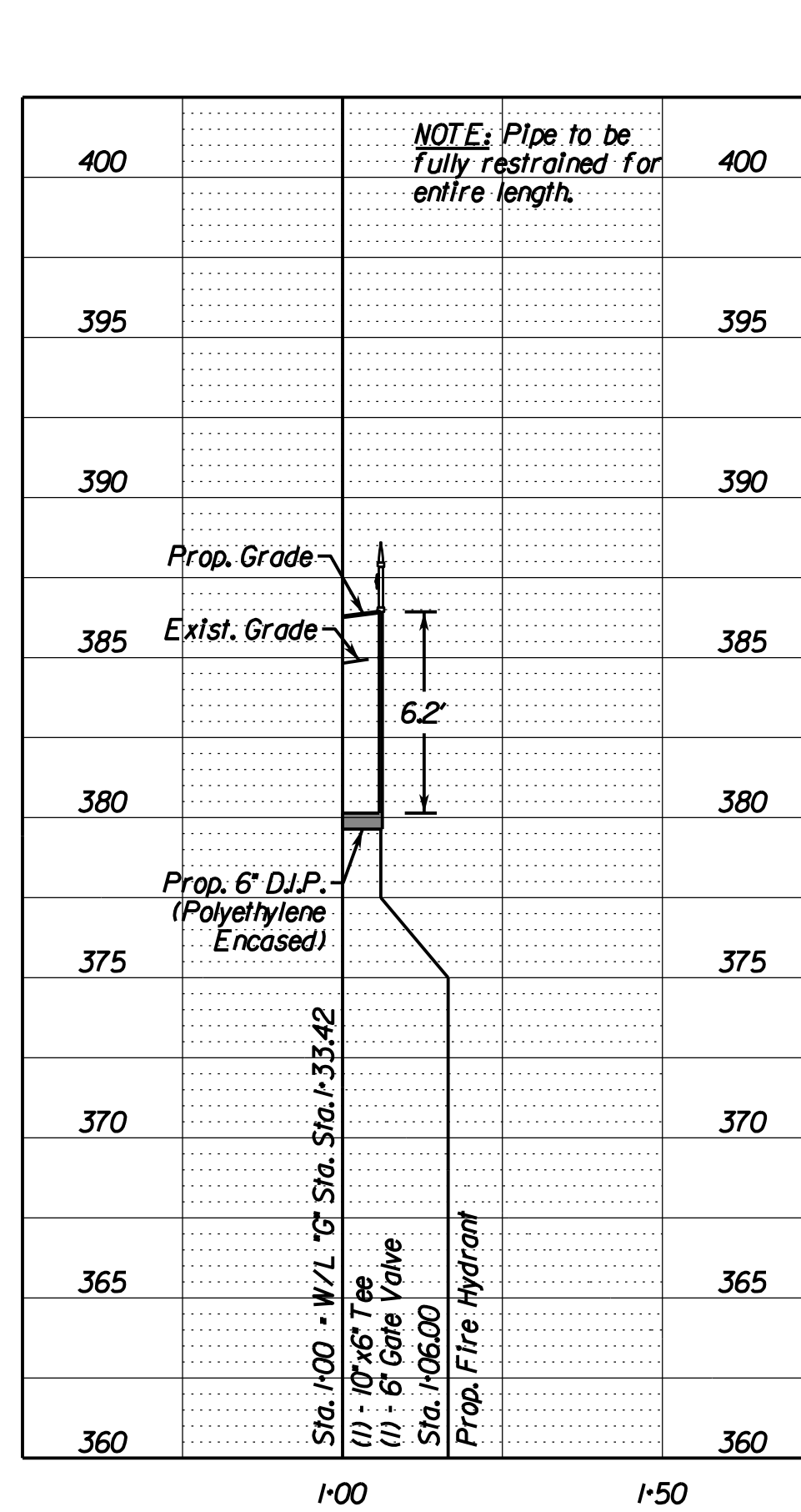
WATERLINE FH "8" PROFILE



WATERLINE FH "9" PROFILE



WATERLINE FH "10" PROFILE



100% PLANS

PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV**
 FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.

ENGINEER: **Rinker Design Associates, P.C.**
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6000 DeSoto Way, Suite 200, Manassas, Virginia 20108
 Telephone: (703) 368-7373 Fax: (703) 368-7343
 www.rinker.com To Make Your Vision Reality

PROJECT MANAGER: **MARK A. GUNN, P.E.**

WATERLINE PROFILES
 Loudoun County, Virginia

Town of Leesburg
 SUBMISSION DATE: 02/21/2018

ASSOCIATED PLAN: **TLCI-2016-0002**
 C.I.P. NUMBER: **U000-253-312**
 VDOT PROJ. NO. **U000-253-312**

Sheet 20C(1) of 20

PROJECT MANAGER **Anne Gelaer, (703) 771-2742 (Town of Leesburg)**
 SURVEYED BY **Sidney Thomas, L.S., (703) 368-7373 (2015)**
 SUBSURFACE UTILITY BY **Accumark, (800) 542-2990 (2015)**
 DESIGN SUPERVISED BY **Mark A. Gunn, P.E., (703) 368-7373**
 DESIGNED BY **Sahab Qadiri, P.E., (703) 368-7373**

The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4L

NOTES:

- Maximum hydrant barrel height is limited to 8'.
- Horizontal setback distance from flow line of gutter or edge of pavement shall be 14" minimum and 24" maximum.
- At contractor's choice, use one of the following arrangements:
 - Strapping between valve and hydrant if the dimensions are less than or equal to 10'.
 - Anchoring coupling between valve and hydrant.
 - Thrust blocks at hydrant.

REVISIONS				Not To Scale	DRAWING	WS-5
NO.	DATE					
1						
2	10/16/07					

BLOW - OFF FIRE HYDRANT

PAGE 7

The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4O

NOTES:

- $f' = 3,000$ PSI at 28 days.
- Carry all bearing surfaces to undisturbed earth or firm subgrade.
- The anchorage dimensions are based on the total pressure of 150 PSI. Where the pressure is different, the volume of concrete (i.e. LxWxD) shall be proportioned to required pressure. Soil bearing pressure is 2,500 PSI.

REVISIONS				Not To Scale	DRAWING	WS-13
NO.	DATE					
1						

ANCHORAGE FOR 11 1/4°, 22 1/2° AND 45° UPPER VERTICAL BENDS

PAGE 15

The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4M

NOTES:

- Tapping saddle must be epoxy coated with stainless steel straps or all brass.
- Acceptable valve manufacturers are: Valmatic, APCO, Crispen, or approved equal.
- Manhole cover must be flush with final grade.
- Localized dips in water mains are not allowed to avoid use of air release valves.
- Manhole has an 8" by 1' - 6" ring bottom as shown.

REVISIONS				Not To Scale	DRAWING	WS-7
NO.	DATE					
1						
2	10/16/07					
3	04/27/10					

AUTOMATIC AIR RELEASE VALVE

PAGE 9

The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4O

NOTES:

- $f' = 3,000$ PSI at 28 days.
- Carry all bearing surfaces to undisturbed earth or firm subgrade.
- The anchorage dimensions are based on the total pressure of 150 psi. Where the pressure is different, the area of concrete block (i.e. LxM) shall be proportioned accordingly. Area adjustment for required pressure shall be made first before making adjustment for soil bearing pressure.

REVISIONS				Not To Scale	DRAWING	WS-14
NO.	DATE					
1						

BUTTRESSES FOR 11 1/4°, 22 1/2° AND 45° LOWER VERTICAL BENDS

PAGE 16

The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4O

Pipe Size Inches	Degree of Bend	150 PSI Working Pressure				
		L	H			
6	90	2.5	2.0			
	45	2.5	1.0			
	22.5	1.5	1.0			
8	90	4.0	2.0			
	45	2.5	2.0			
	22.5	2.5	1.0			
12	90	5.0	4.0			
	45	4.0	2.5			
	22.5	2.5	2.0			
16	90	7.5	4.5			
	45	5.0	3.5			
	22.5	3.0	3.0			
20	90	8.5	6.0			
	45	6.0	4.5			
	22.5	4.5	3.0			
24	90	11.0	6.5			
	45	7.0	5.5			
	22.5	5.0	4.0			

NOTES:

- The above table is based on 3,000 PSF soil bearing capacity.
- Concrete anchor block dimensions for tees to be same as for 90° bends.
- Anchor block design for pipe larger than 24" shall be reviewed on an individual basis by the Director.
- Height of concrete anchor block above pipe centerline is 1/2 the H dimension.
- Concrete strength (f'c) shall be 3,000 psi.
- Anchor block design for pipes larger than 24" shall be reviewed on an individual basis by the Town.
- Wrap fitting with polyethylene sheeting. Concrete must not obstruct access to mechanical joint assembly.

THRUST BLOCKS

REVISIONS				Not To Scale	DRAWING	WS-12
NO.	DATE					
1						
3	04/27/10					

PAGE 14

The Town of Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4P

Valve size	Number of 3/4" dia. bars required	Maximum length of spigot pipe
3"	2	24"
4"	2	24"
6"	2	27"
8"	2	27"
10"	4	27"
12"	6	27"
16"	8	36"
20"	12	36"
24"	16	36"
30"	20	42"

NOTES:

- Rods shall be at least 36,000 PSI yield strength and field coated.
- Duc lugs or Eyebolts are also acceptable.

STRAPPING

REVISIONS				Not To Scale	DRAWING	WS-15
NO.	DATE					
1						

PAGE 17

PROJECT MANAGER *Anne Gelaer, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Qadiri, P.E., (703) 368-7373*

The Town of
Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-260.2 & 2-390.2A

Existing ground surface or finished grade
 18" x 18" x 6" concrete collar
 Valve box as specified
 Water main
 6" Mech. joint gate valve
 6" Anchoring coupling 12' long (min.) or swivel hydrant tee
 3,000 PSI concrete thrust block set on undisturbed or compacted earth
 6" Dia. ductile iron pipe
 15" x 15" x 6" Concrete block set on undisturbed or compacted earth
 3,000 PSI concrete thrust block set on undisturbed or compacted earth
 Screened gravel pit 2' - 0" min. depth extending a min. of 6" above hydrant ring
 Hydrant as specified
 Rotate toward street as indicated on plans
 4' - 0" max.
 1' - 6" min.
 See Note B
 Two 3/4" dia. coated bars are required for strapping

NOTES:

- Maximum hydrant barrel height is limited to 8'.
- Horizontal setback distance from flow line of gutter or edge of pavement shall be 14" minimum and 24" maximum.
- At contractor's choice, use one of the following arrangements:
 - Strapping between valve and hydrant if the dimensions are less than or equal to 10'.
 - Anchoring coupling between valve and hydrant.
 - Thrust blocks at hydrant.

REVISIONS NO.	DATE	DESCRIPTION
1		
2	10/16/07	

Not To Scale
DRAWING WS-18
PAGE 20

FIRE HYDRANT

The Town of
Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-315

Size	A Dia.	B	C	D	Laying length	Defl. angle
6	11.44	3/8	3-1/2	6.51	19' - 11"	4°
8	13.97	3/8	4	7.19	19' - 10"	4°
10	16.44	1/2	4-1/4	7.25	19' - 10"	4°
12	18.75	1/2	4	8.01	19' - 10"	4°
14	20.96	1/2	5-1/4	8.88	19' - 9"	3°
16	23.22	1/2	5-1/4	8.95	19' - 8"	3°
18	25.72	5/8	5-3/8	9.20	19' - 8"	3°
20	27.85	5/8	6	9.88	19' - 7"	3°
24	32.54	5/8	6-1/4	10.58	19' - 6"	3°

Dimensions in inches.

NOTE:

- Snap-lok or approved equal restrained joint pipe will be acceptable.
- Use of mega-lug (or approved equal) joint pipes will be accepted in lieu of proprietary restraint joint piping. Refer to Article 2, Section 2-315 for specifics.

REVISIONS NO.	DATE	DESCRIPTION
1		
3	04/27/10	

Not To Scale
DRAWING WS-20
PAGE 22

RESTRAINED JOINT

The Town of
Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-320.7

Finished grade
 Standard Valve Box
 12" - 24" max.
 2" Square operating nut
 1" Dia. solid steel bar or 1 1/4" dia. steel pipe
 2" Square valve operating nut

NOTE:

- Valve stem extensions to be used when valve nut is 4' or more from the finished grade.
- Valve boxes outside paved areas shall be provided with 18" x 18" x 6" concrete collar with #3 rebar cage.

REVISIONS NO.	DATE	DESCRIPTION
1		
3	04/27/10	

Not To Scale
DRAWING WS-22
PAGE 24

VALVE STEM EXTENSION

The Town of
Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-360.4

Water line
 Mega lug retainer gland or approved equal
 PLAN VIEW
 ELEVATION VIEW
 SECTION VIEW
 4 each "A" Bars (Length - Pipe Dia x 3.0)
 B Bars
 A Bars

ANCHOR COLLAR SCHEDULE				
Line size	W	H	T	BARs
6"	1' - 6"	2' - 0"	1' - 0"	#6 @ 6"
8"	1' - 6"	2' - 0"	1' - 0"	#6 @ 6"
10"	2' - 0"	3' - 0"	1' - 6"	#6 @ 6"
12"	2' - 0"	4' - 0"	1' - 6"	#6 @ 6"
16"	3' - 0"	4' - 6"	2' - 0"	#6 @ 6"

NOTES:

- Bearing area is based on 150 PSI test pressure and a soil bearing pressure of 2,000 PSF.
- Increase block dimensions as required on soils with lower bearing values.
- Concrete strength (f'c) shall be 3000 PSI.
- Anchor collar design for pipes larger than 16" shall be reviewed on an individual basis by the Town.
- Wrap the pipe with polyethylene bags to 6" outside the concrete encasement.

REVISIONS NO.	DATE	DESCRIPTION
1		
2	10/16/07	

Not To Scale
DRAWING WS-26
PAGE 28

ANCHOR COLLAR

The Town of
Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-122.4(O)

Tee of cross
 7/8" I.D. steel pipe sleeve
 Valve
 Spigot pipe
 3/4" Dia. bars threaded 8" on both ends. Bars to be symmetrically placed
 See anchor collar detail WS-26
 Mech. joint plug
 Property line
 3/4" Hex. nut
 Gland
 3/4" Dia. bar
 1/2" Thick steel pipe sleeve (7/8" I.D.) x 2' long max.
 Sleeve to fit curvature of bell
 Gasket
 Spigot
 Bell

Valve size	Number of 3/4" dia. bars required	Maximum length of spigot pipe
3"	2	24"
4"	2	24"
6"	2	27"
8"	2	27"
10"	4	27"
12"	6	27"
16"	8	36"
20"	12	36"
24"	16	36"
30"	20	42"

NOTES:

- Use mechanical joint fittings only.
- Paint all steel with two coats of bituminous paint.
- Use butterfly valves for 12" dia. and larger pipe.
- Use gate valves for 10" dia. and smaller pipe.
- Rods and nuts, 36,000 PSI yield strength, stainless steel and field coated when cut.
- Applies to all directions of the tee.

REVISIONS NO.	DATE	DESCRIPTION
1		
2	10/16/07	

Not To Scale
DRAWING WS-27
PAGE 29

LATERAL WATER CONNECTION

The Town of
Leesburg in Virginia

DESIGN AND CONSTRUCTION STANDARD

ARTICLE 2-310.5

Concrete Cradle
 Concrete Arch
 CLASS A
 CLASS B
 CLASS C
 Shaped Bottom, load factor 1.5
 Granular Bedding, load factor 1.5

NOTES:

- In rock trench, excavate at least 6" (15 cm.) below the bell of the pipe except where concrete cradle is used.
- Compacted granular material for D.I.P. and P.V.C. pipe is VDOT crushed stone No. 68 or No. 78.

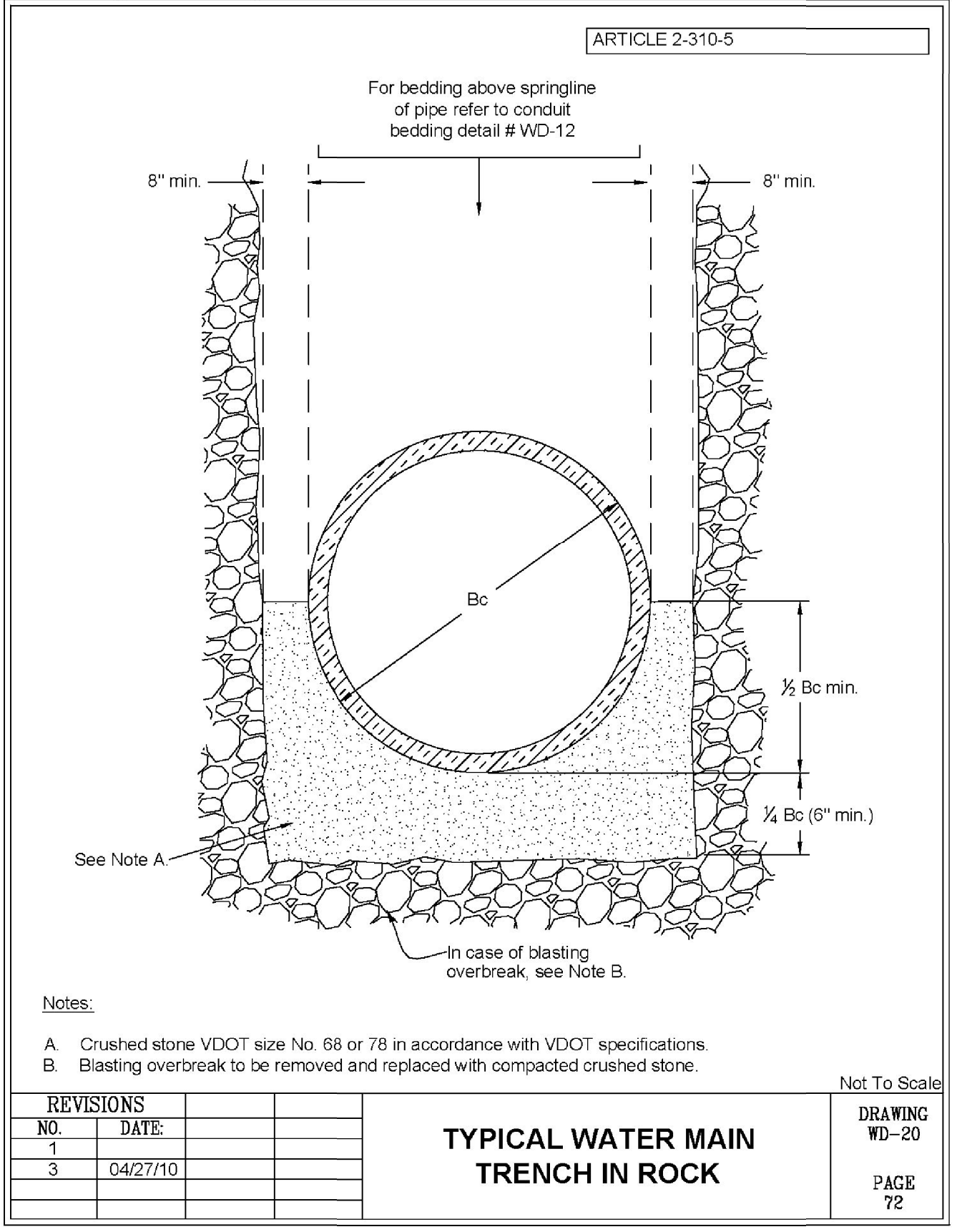
REVISIONS NO.	DATE	DESCRIPTION
1		

Not To Scale
DRAWING WD-12
PAGE 64

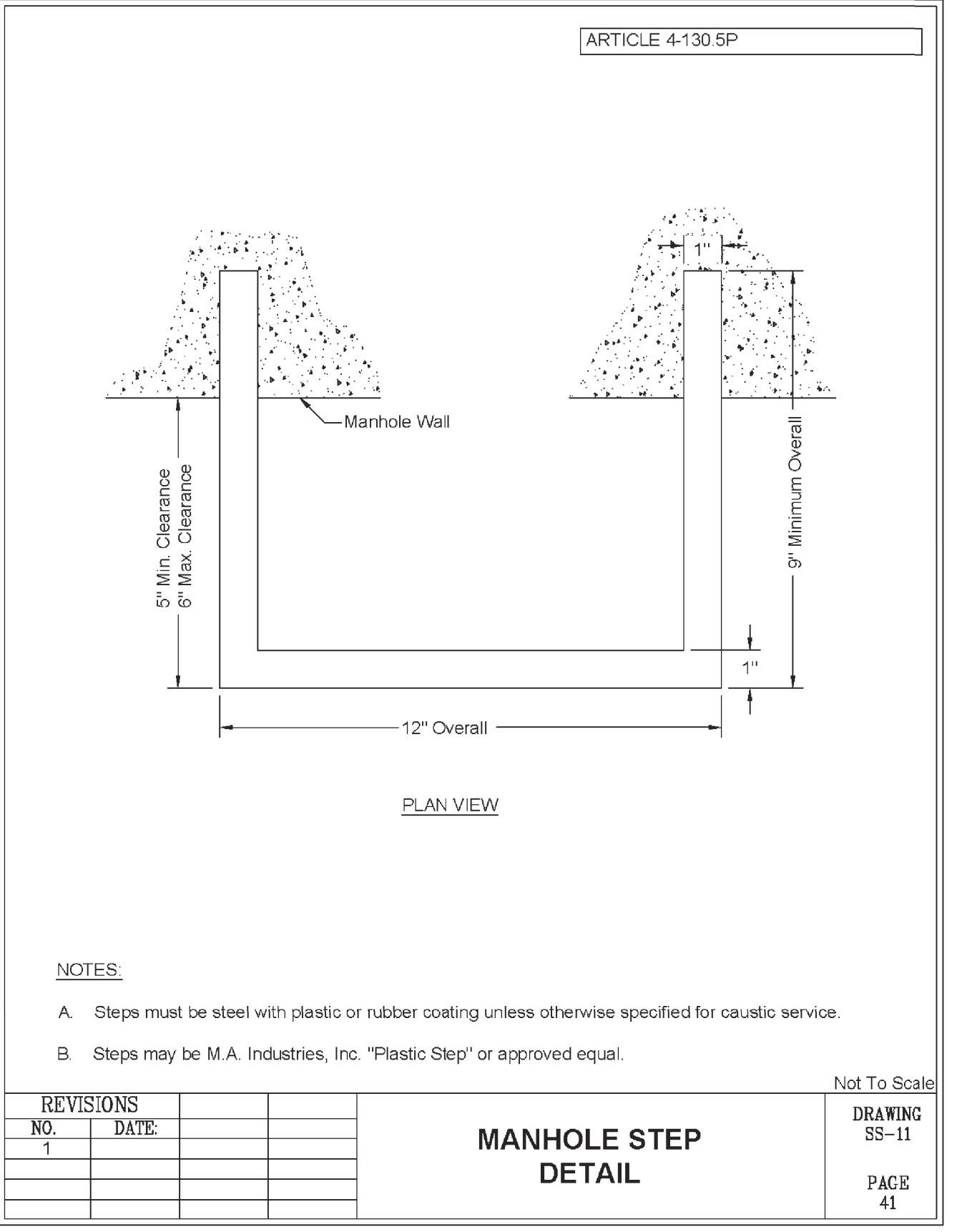
CONDUIT BEDDING WATERLINES

PROJECT MANAGER *Anne Gelaer, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Qadiri, P.E., (703) 368-7373*

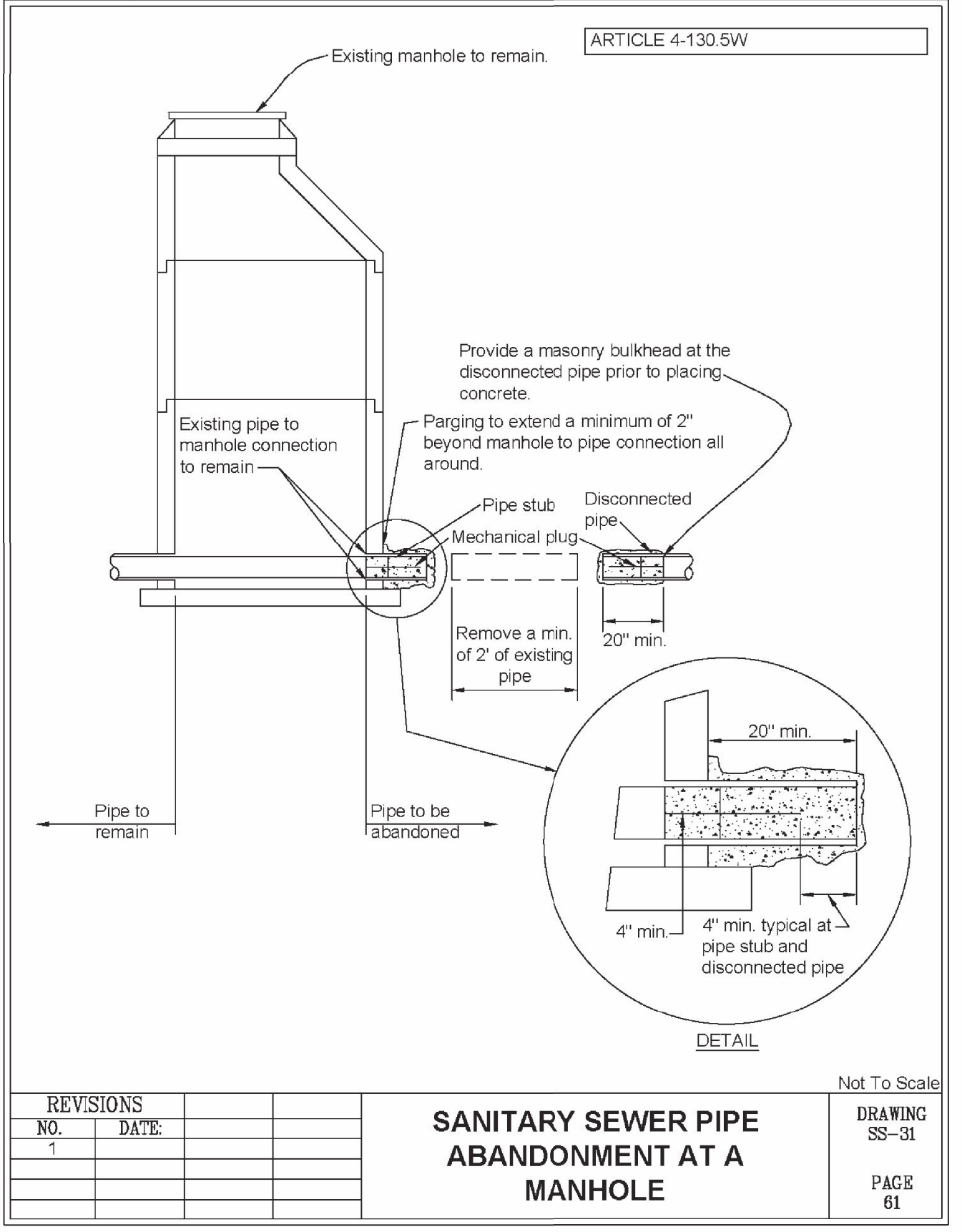
The Town of Leesburg in Virginia DESIGN AND CONSTRUCTION STANDARD



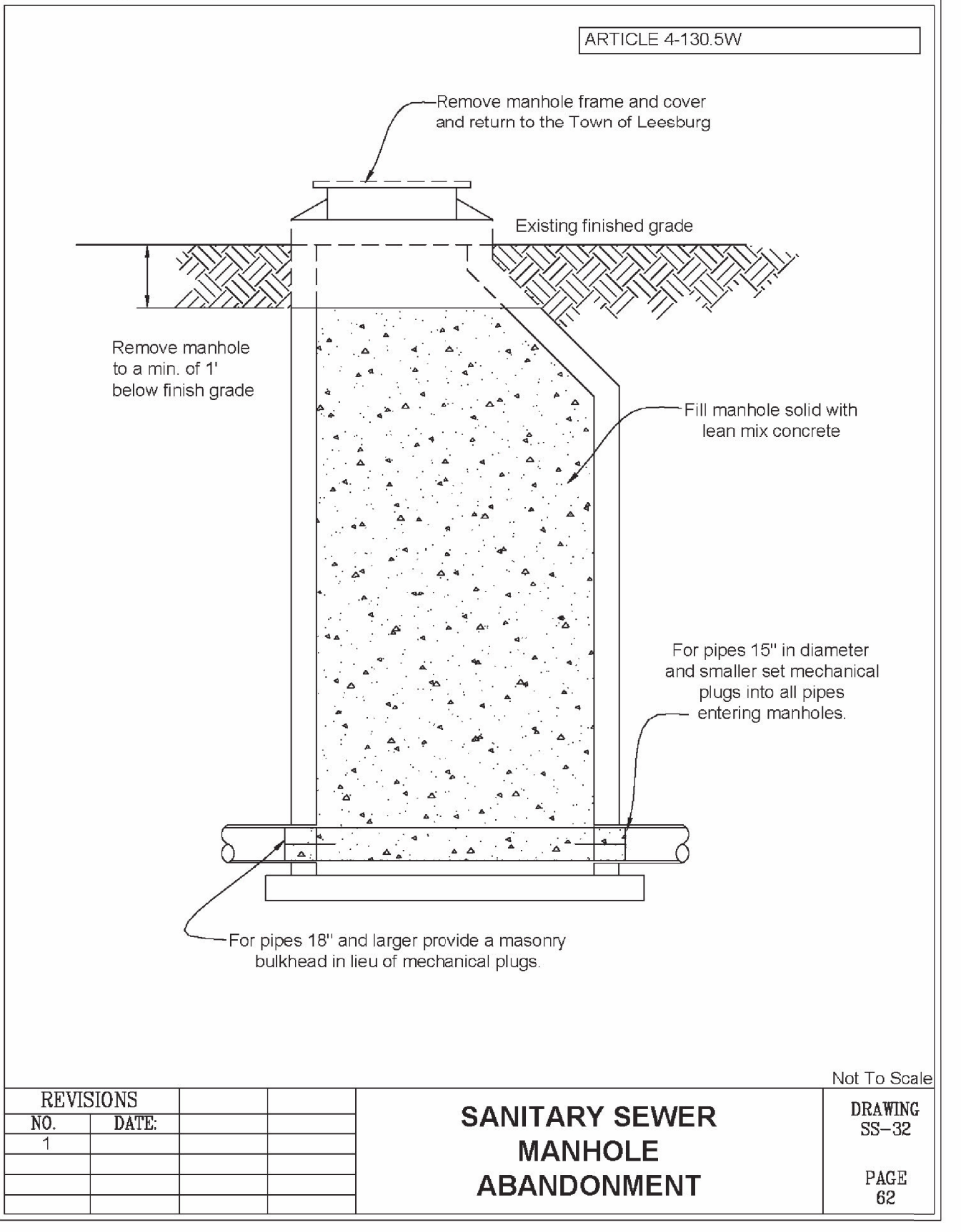
The Town of Leesburg in Virginia DESIGN AND CONSTRUCTION STANDARD



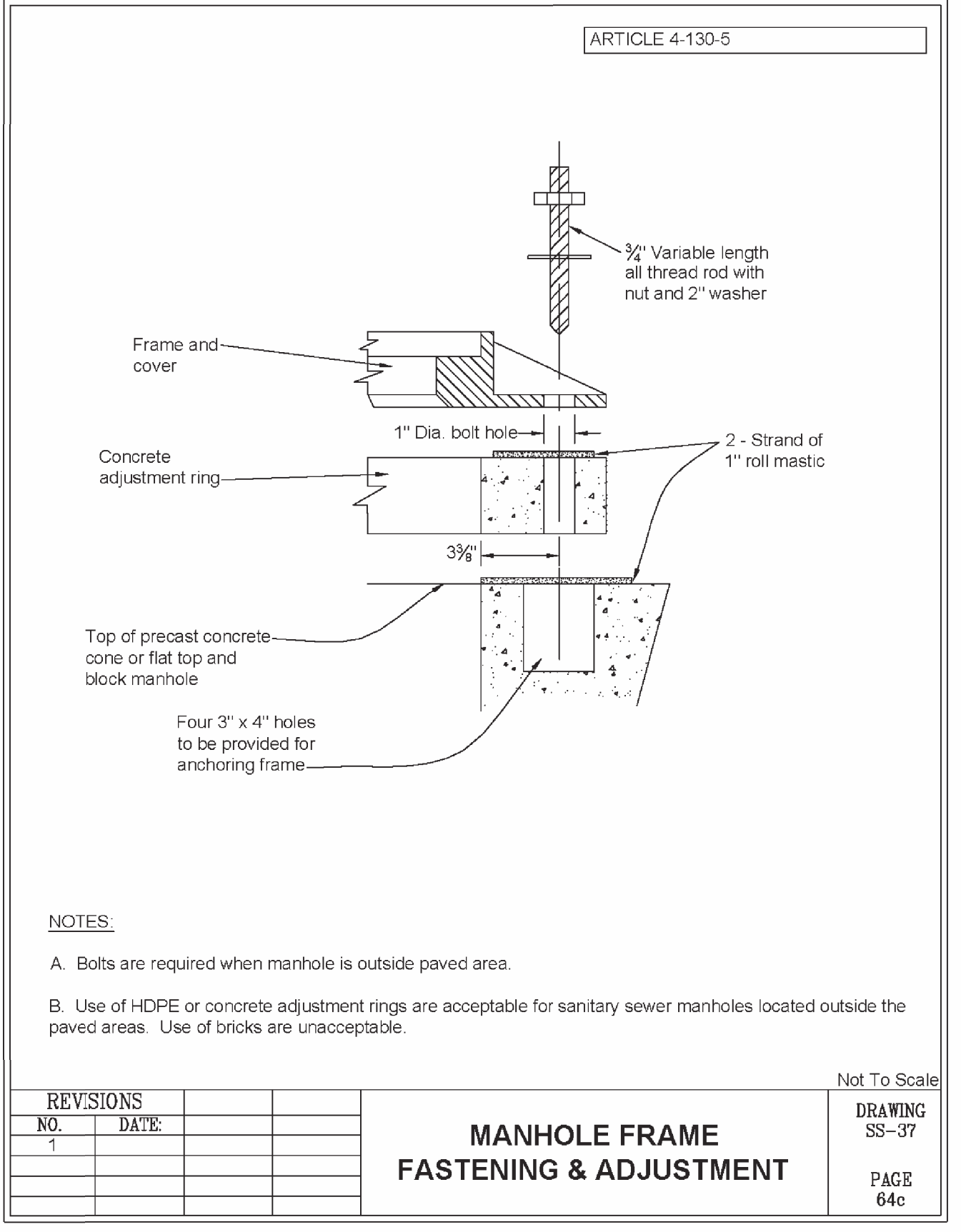
The Town of Leesburg in Virginia DESIGN AND CONSTRUCTION STANDARD



The Town of Leesburg in Virginia DESIGN AND CONSTRUCTION STANDARD



The Town of Leesburg in Virginia DESIGN AND CONSTRUCTION STANDARD



PROJECT NAME: **SYCOLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**
 PROJECT MANAGER: **MARK A. GUNN, P.E.**
 ENGINEER: **Rinker Design Associates, P.C.**
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6000 Decoye Blvd., Suite 200, Manassas Virginia 20108 on the web @ www.rinkrad.com
 Telephone: (703) 368-7373 Fax: (703) 375-5443
 E-mail: info@rinkrad.com

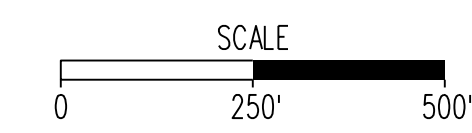
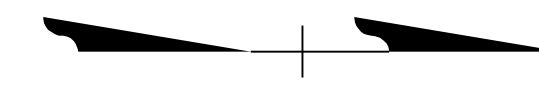
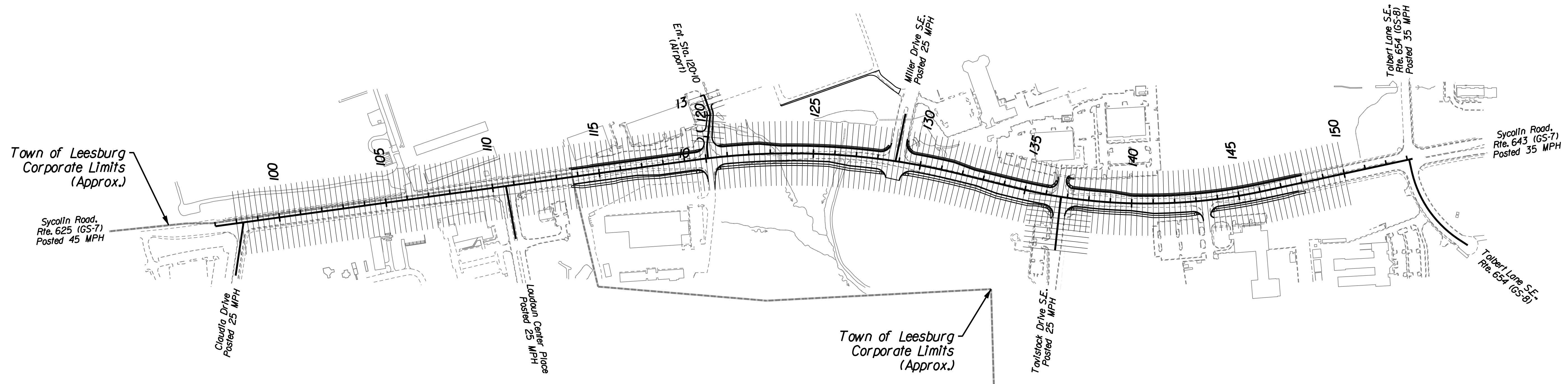
Loudoun County, Virginia
 Waterline Details
 Town of Leesburg
 SUBMISSION DATE: 02/21/2018
 TOWN NUMBER: TBD

ASSOCIATED PLAN
 C.I.P. NUMBER: **TLCI-2016-0002**
 VDOT PROJ. NO. **U000-253-312**

SHEET
 20D(2) of 20

PROJECT MANAGER *Anne Geisler, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY *Sidney Thomas, L.S., (703) 368-7373 (2015)*
 SUBSURFACE UTILITY BY *Accumark, (800) 542-2990 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373*
 DESIGNED BY *Sahab Dadir, P.E., (703) 368-7373*

Project Index of Cross Sections

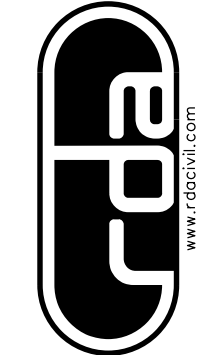


PROJECT INDEX OF CROSS SECTIONS		
Town of Leesburg Project TICI-2016-0002		
Sheet No.	X1	Project Index of Cross Sections
Sheet No.	X2 thru X65	Sycollin Road (Rte. 643)
Sheet No.	X70 thru X71	Entrance Sta. 120+10 Lt. (Airport)
Sheet No.	X72 thru X73	Tavistock Drive S.E.

ASSOCIATED PLAN
 C.I.P. NUMBER: **TLCI-2016-0002**
 VDOT PROJ. NO. **U000-253-312**
 TOWN NUMBER: TBD

PROJECT NAME: **SYCOLLIN ROAD WIDENING PHASE IV FROM CLAUDIA DRIVE TO TOLBERT LANE S.E.**
 PROJECT INDEX OF CROSS SECTIONS
 Town of Leesburg
 Loudoun County, Virginia
 SUBMISSION DATE: 02/21/2018

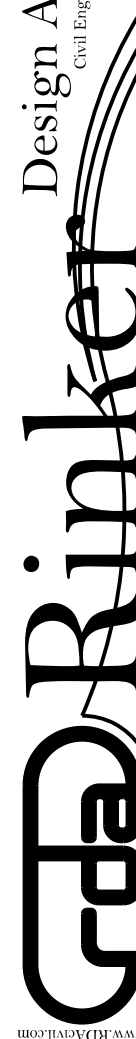
ENGINEER:
Rinker Design Associates, P.C.
 Engineering - Surveying - Land Planning - Transportation - Environmental Services
 6000 Decoy Road, Suite 200, Manassas, Virginia 20108
 Telephone: (703) 368-7373 Fax: (703) 368-7343
 Email: info@rinker.com
 www.rinker.com
 to Make Your Vision Reality



PROJECT MANAGER: **MARK A. GUNN, P.E.**

Office Locations
10100 University Blvd
Suite 1000
Manassas, VA 20108
Phone: (703) 771-2742
Fax: (703) 771-2743

Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services



#TIME\$TAMPS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

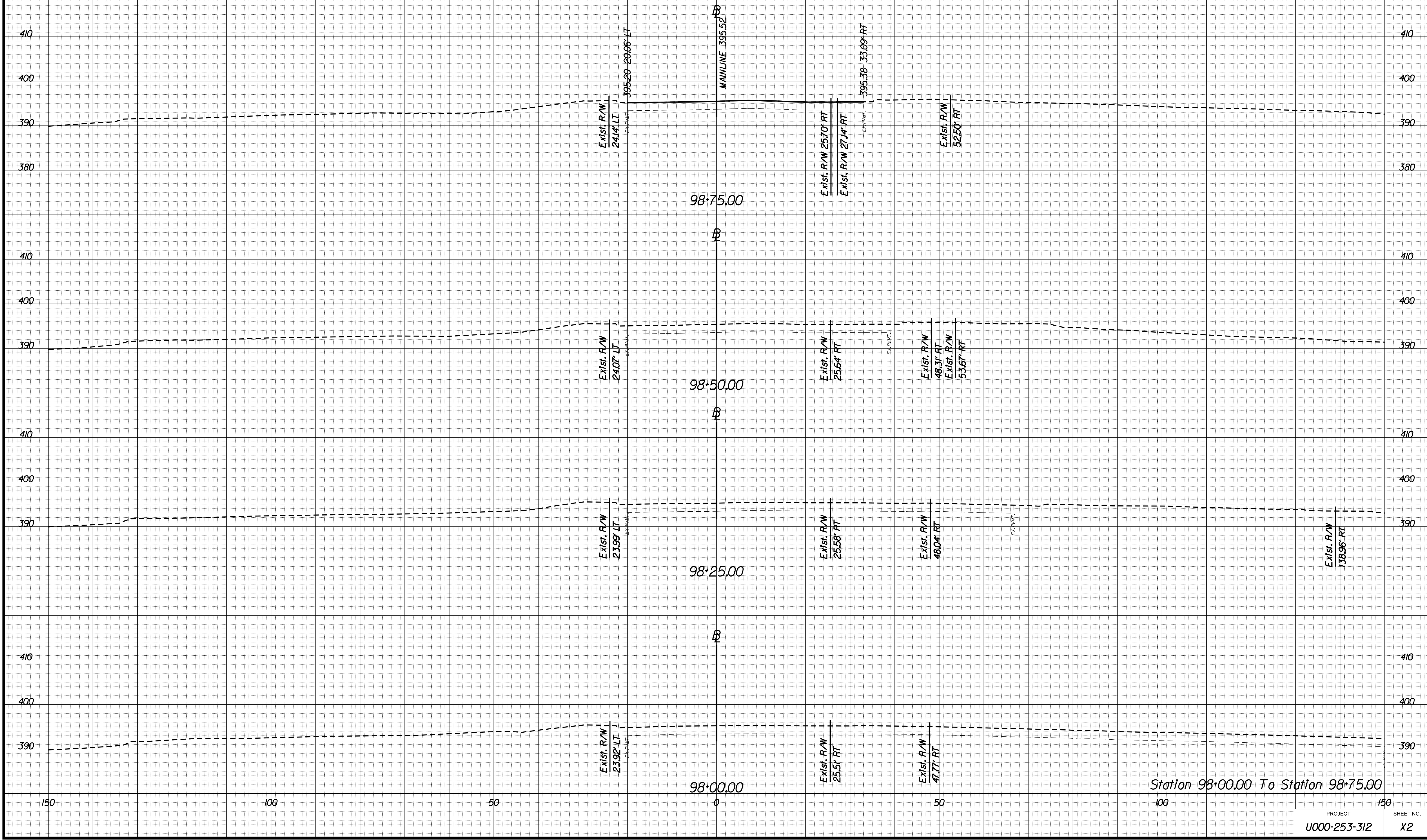
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	643		U000-253-312 P101, R201, C501	X2

Sycolin Road, Route 643



Station 98+00.00 To Station 98+75.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	X2

Office Locations
Rinker Design Associates, P.C.
11000 Lee Road, Suite 100
Manassas, VA 20108
Phone: (703) 368-7373
Fax: (703) 368-7373

Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services

#TIME\$T AMPS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

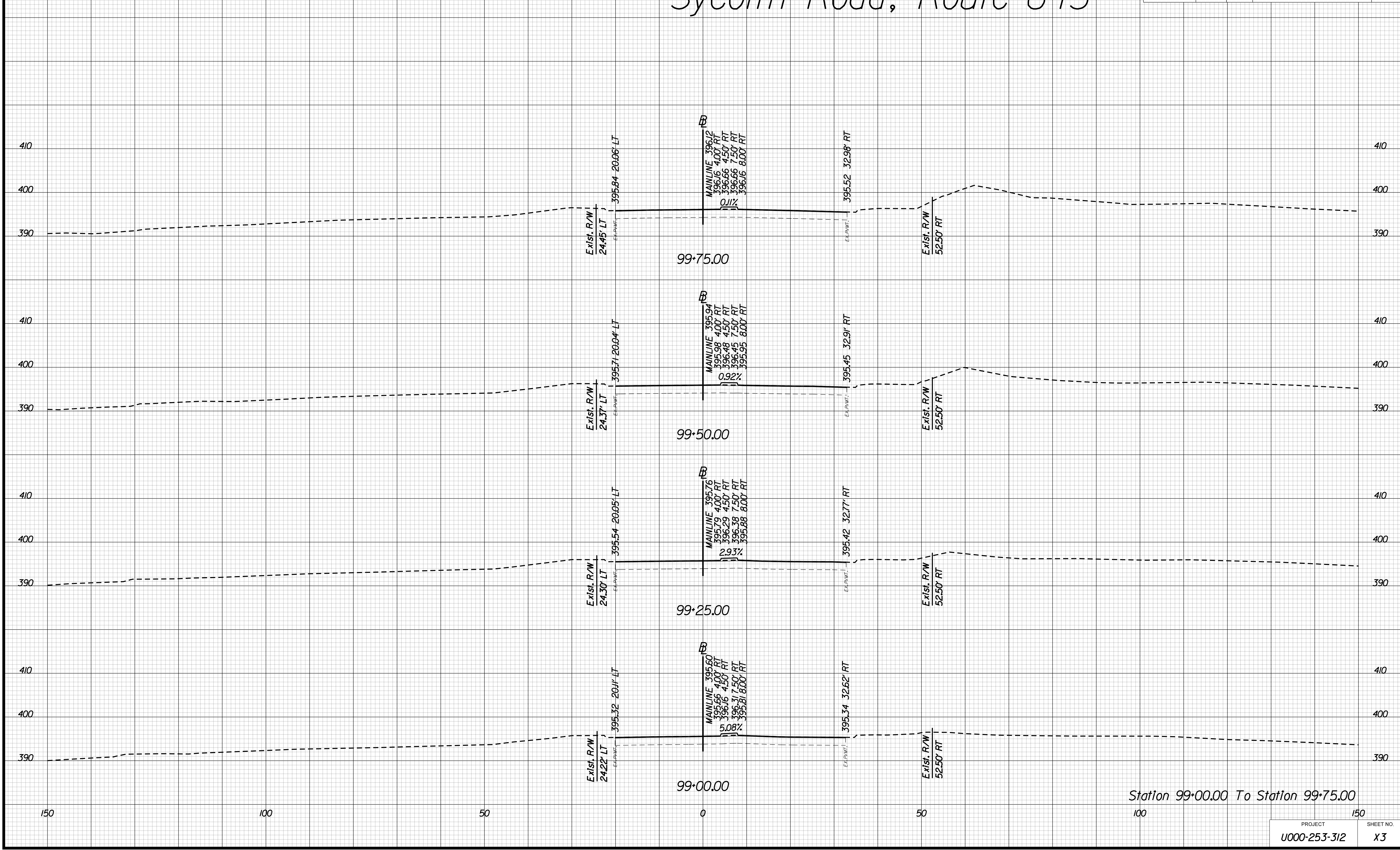
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X3

Sycolin Road, Route 643



Station 99+00.00 To Station 99+75.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	X3

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

Office Locations
 Rinker Design Associates, P.C.
 Civil Engineers
 Transportation - Environmental
 Right of Way Services

#TIME\$TAMPS

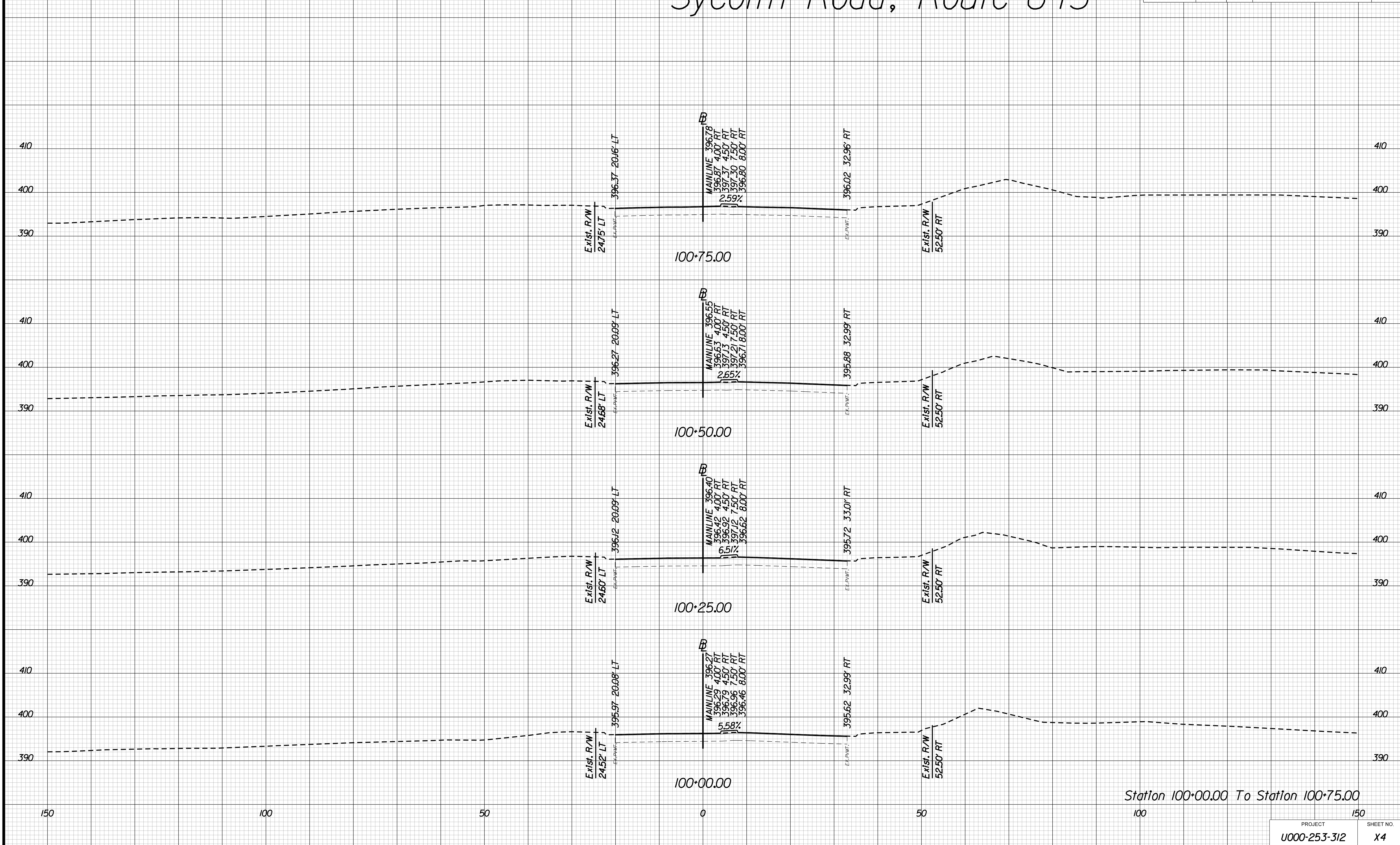
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X4

Sycolin Road, Route 643



100% PLANS

Station 100+00.00 To Station 100+75.00

PROJECT	SHEET NO.
U000-253-312	X4

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

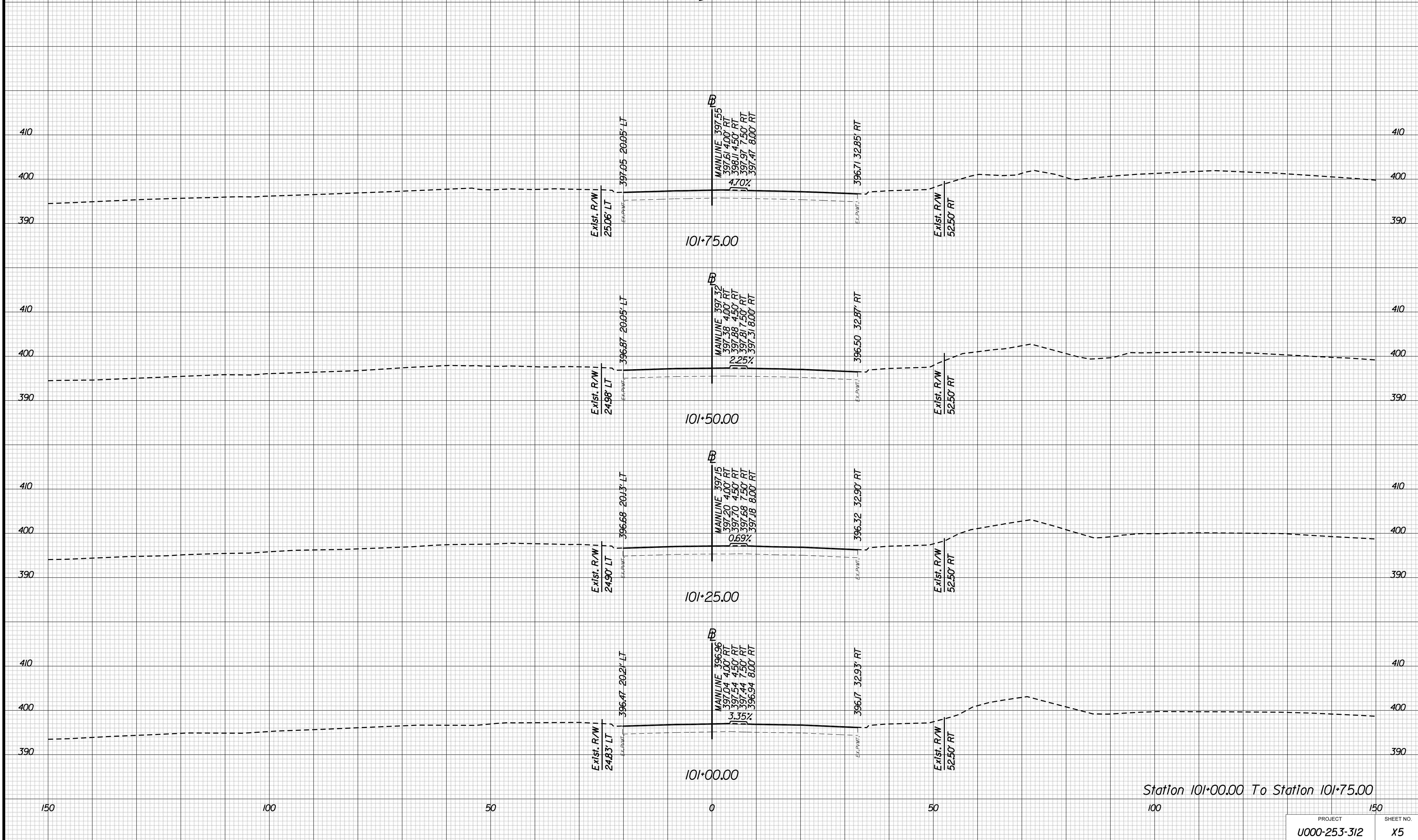
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X5

Sycolin Road, Route 643



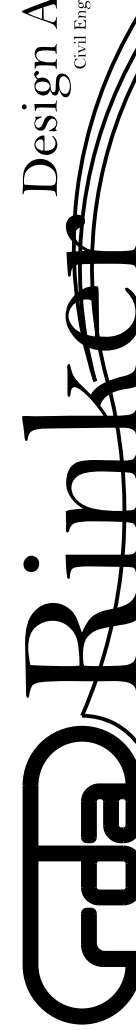
Station 101+00.00 To Station 101+75.00

PROJECT	SHEET NO.
U000-253-312	X5

100% PLANS

Office Locations
Rinker Associates, P.C.
1000 West 10th Street
Lawrence, KS 66044
316-841-1111
www.rinker.com

Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services



8/16/16

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

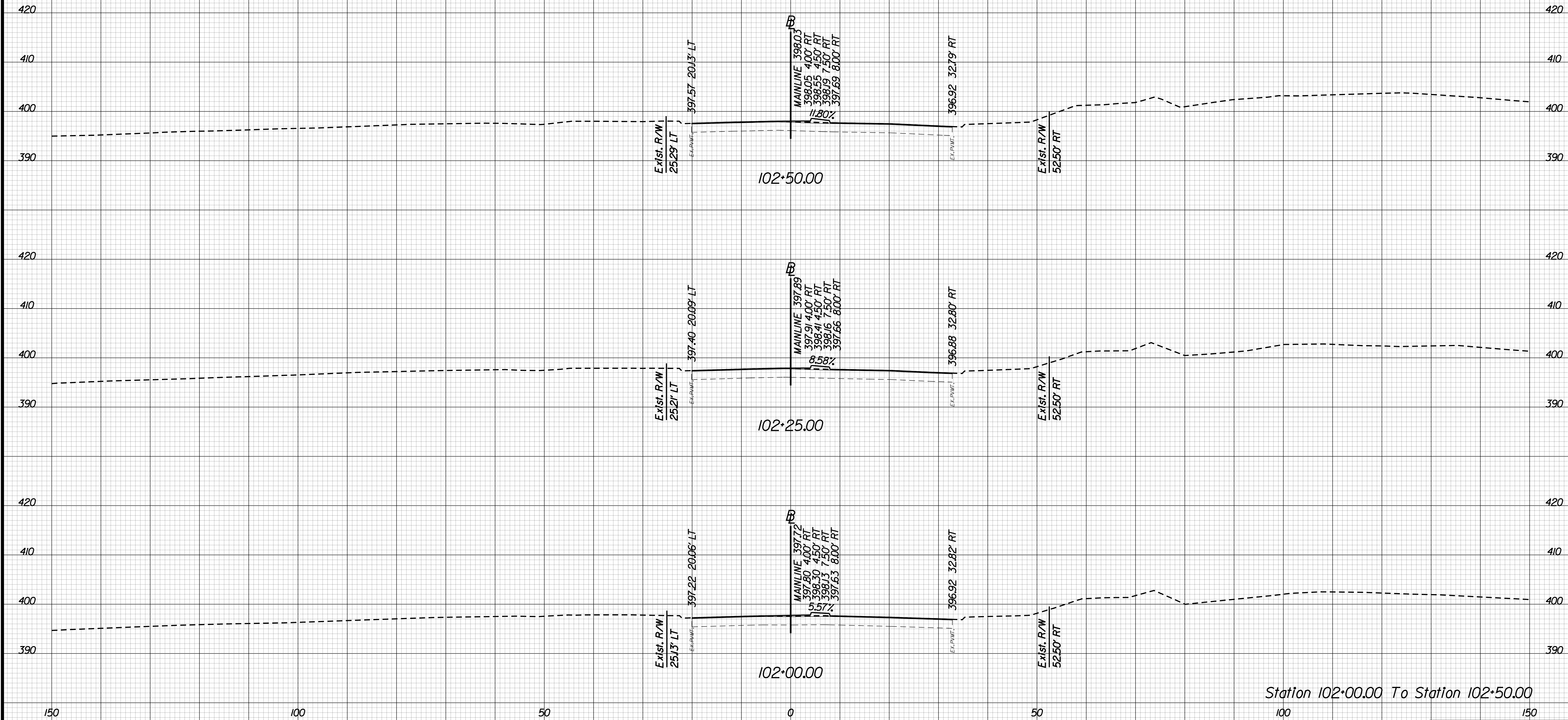
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X6

Sycolin Road, Route 643



100% PLANS

PROJECT	SHEET NO.
U000-253-312	X6

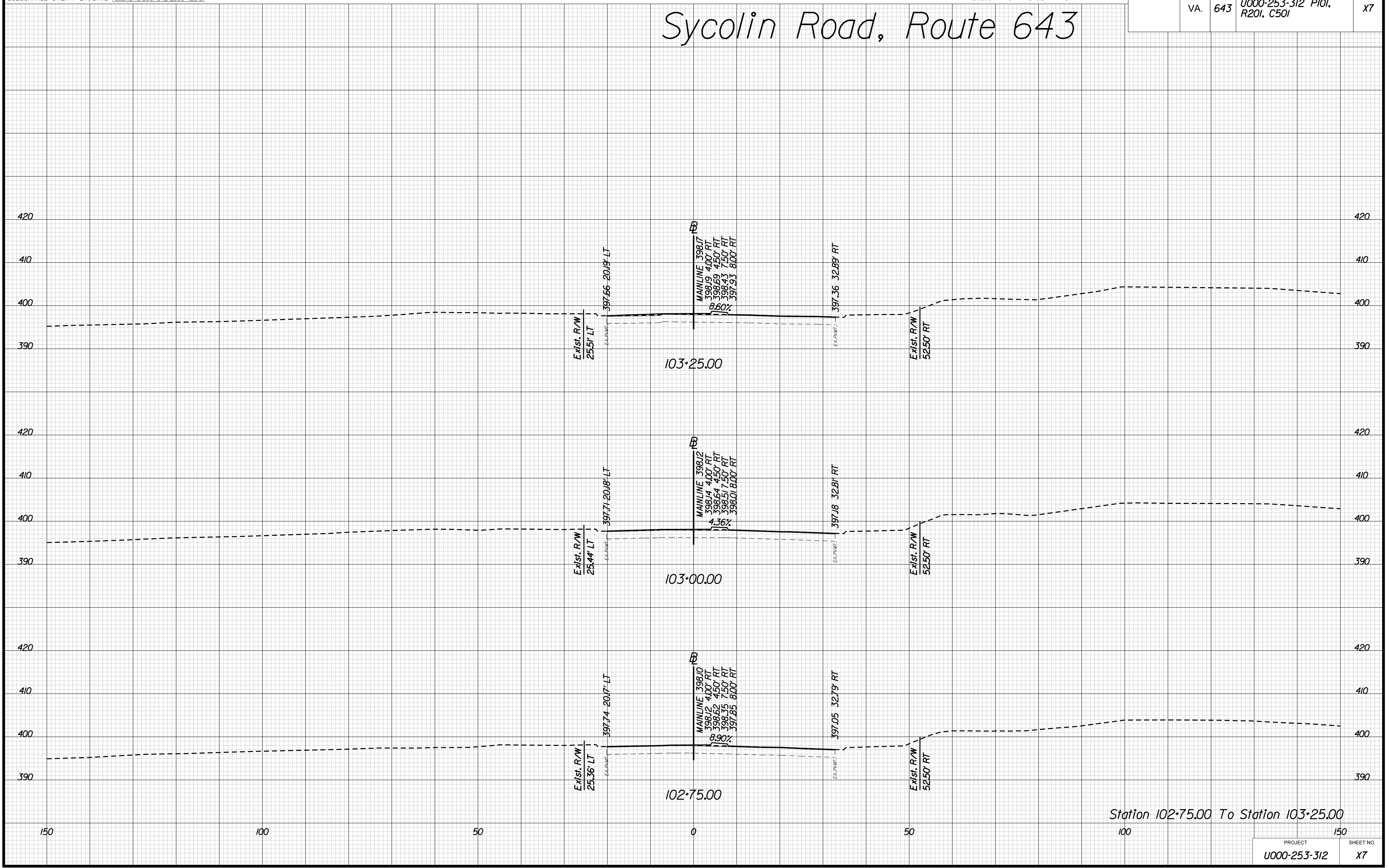
PROJECT MANAGER *Anne Gelger*, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE *Rinker Design Associates*, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E.*, (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE *Accumark*, (800) 542-2990 (2015)

CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X7

Sycolin Road, Route 643



Station 102+75.00 To Station 103+25.00

PROJECT	SHEET NO.
U000-253-312	X7

PROJECT MANAGER *Anne Gelger, (703) 771-2742 (Town of Leesburg)*
 SURVEYED BY, DATE *Rinker Design Associates, (703) 368-7373 (2015)*
 DESIGN SUPERVISED BY *Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)*
 SUBSURFACE UTILITY BY, DATE *AccuMark, (800) 542-2990 (2015)*

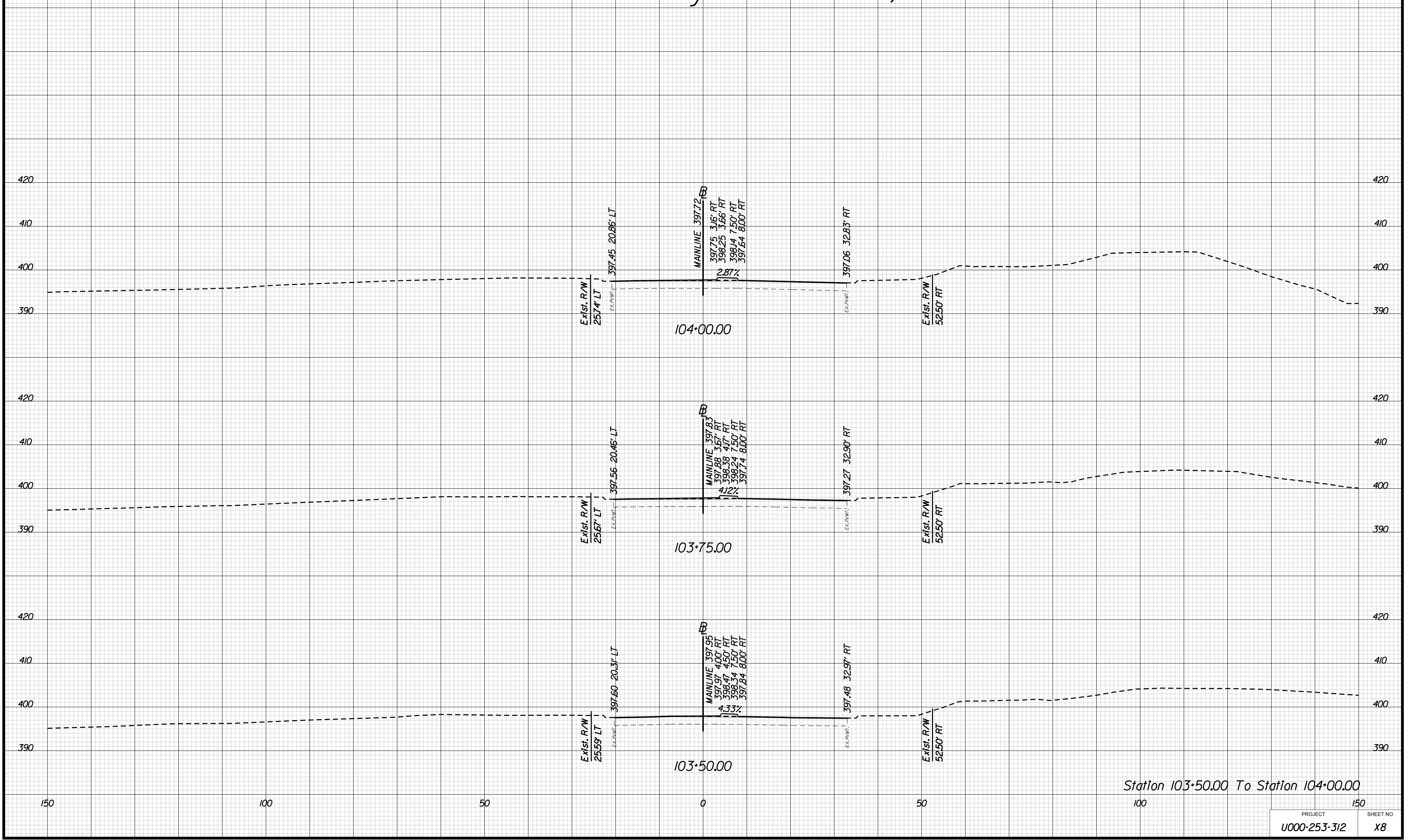
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X8

Sycolin Road, Route 643



100% PLANS

PROJECT	SHEET NO.
U000-253-312	X8

Office Locations
Rinker Design Associates, P.C.
10000 Lee Blvd, Suite 200
Manassas, VA 20108
Tel: (703) 368-7373
Fax: (703) 368-7373

Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services

8/16/16 8:57 AM

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

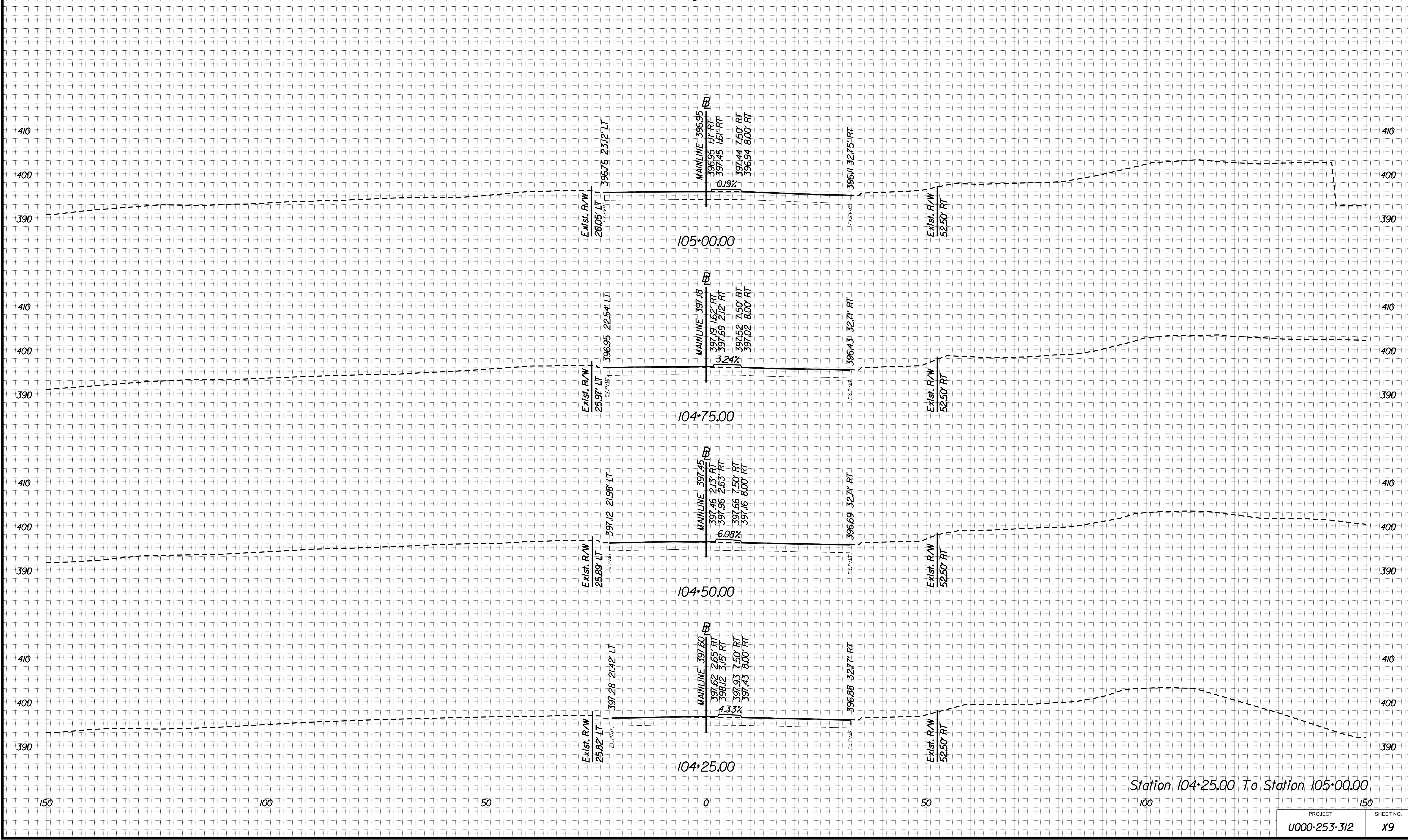
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X9

Sycolin Road, Route 643



Station 104+25.00 To Station 105+00.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	X9

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)

 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)

 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)

 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

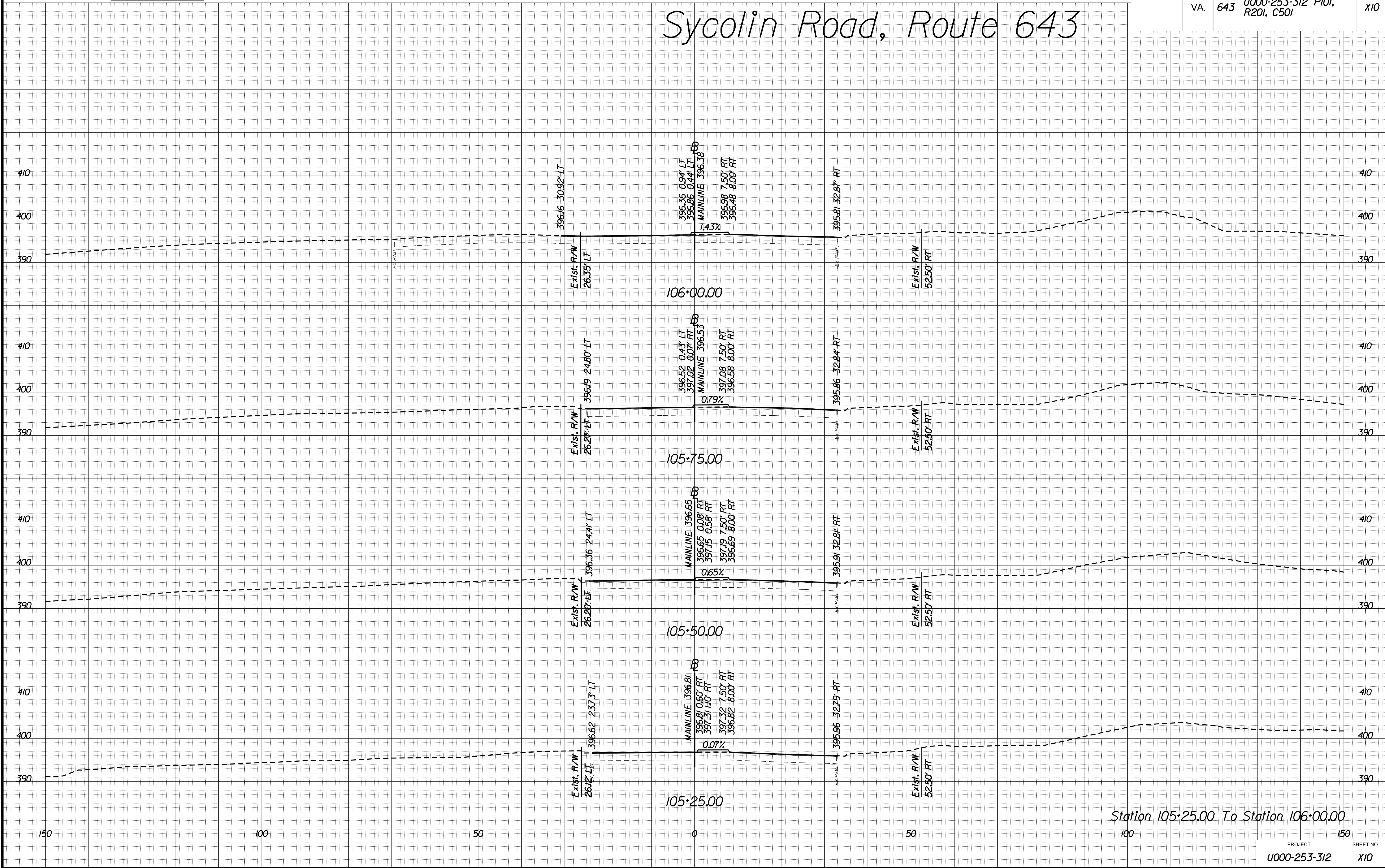
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X10

Sycolin Road, Route 643



Station 105+25.00 To Station 106+00.00

PROJECT	SHEET NO.
U000-253-312	X10

100% PLANS

Office Locations
1111 Commerce Boulevard
Martinsville, VA 22101
1111 Commerce Boulevard
Martinsville, VA 22101
1111 Commerce Boulevard
Martinsville, VA 22101

CDa Rinker
Civil Engineers
Transportation - Environmental
Right of Way Services

#TIME\$T\$AMPS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

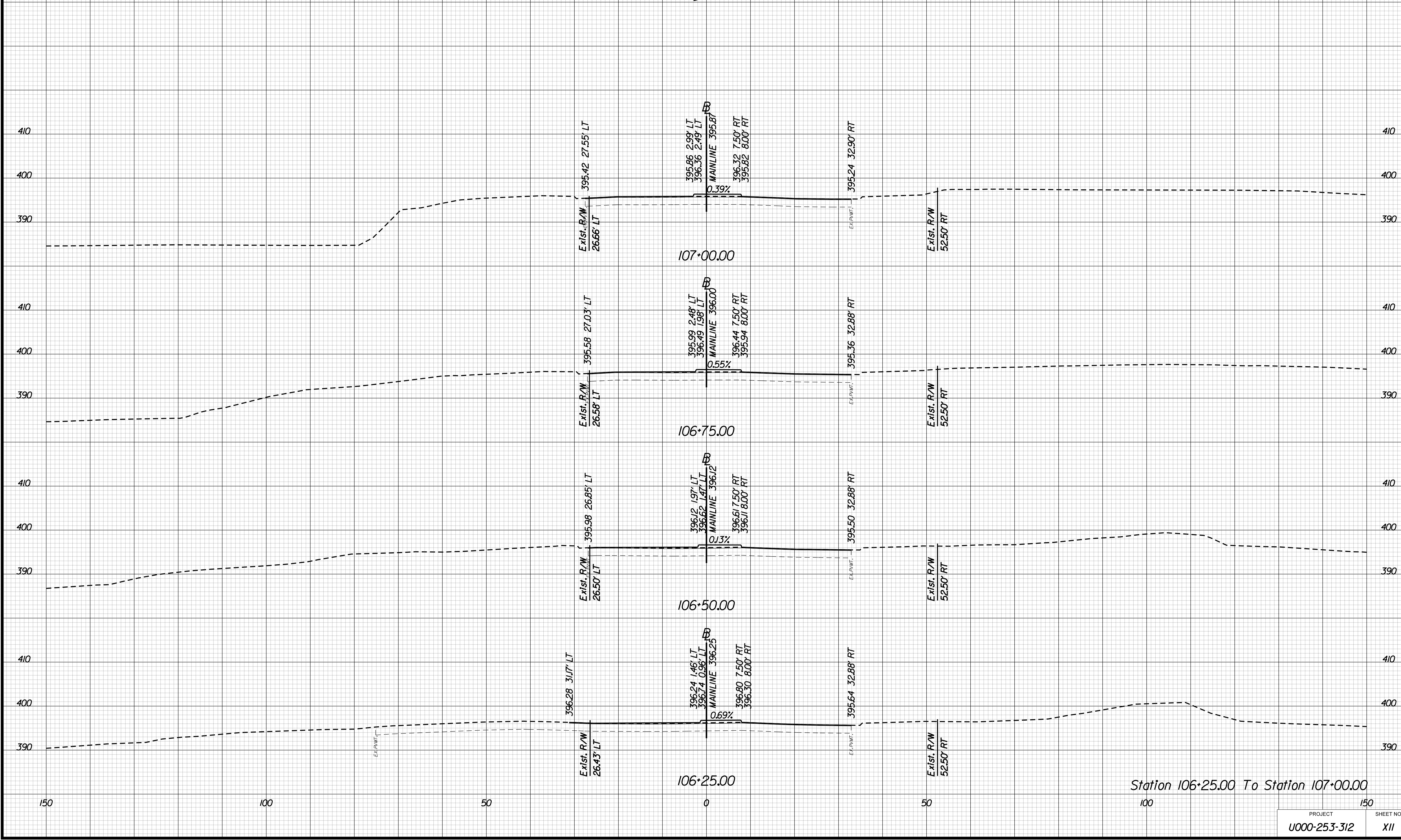
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	XII

Sycolin Road, Route 643



Station 106+25.00 To Station 107+00.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	XII

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

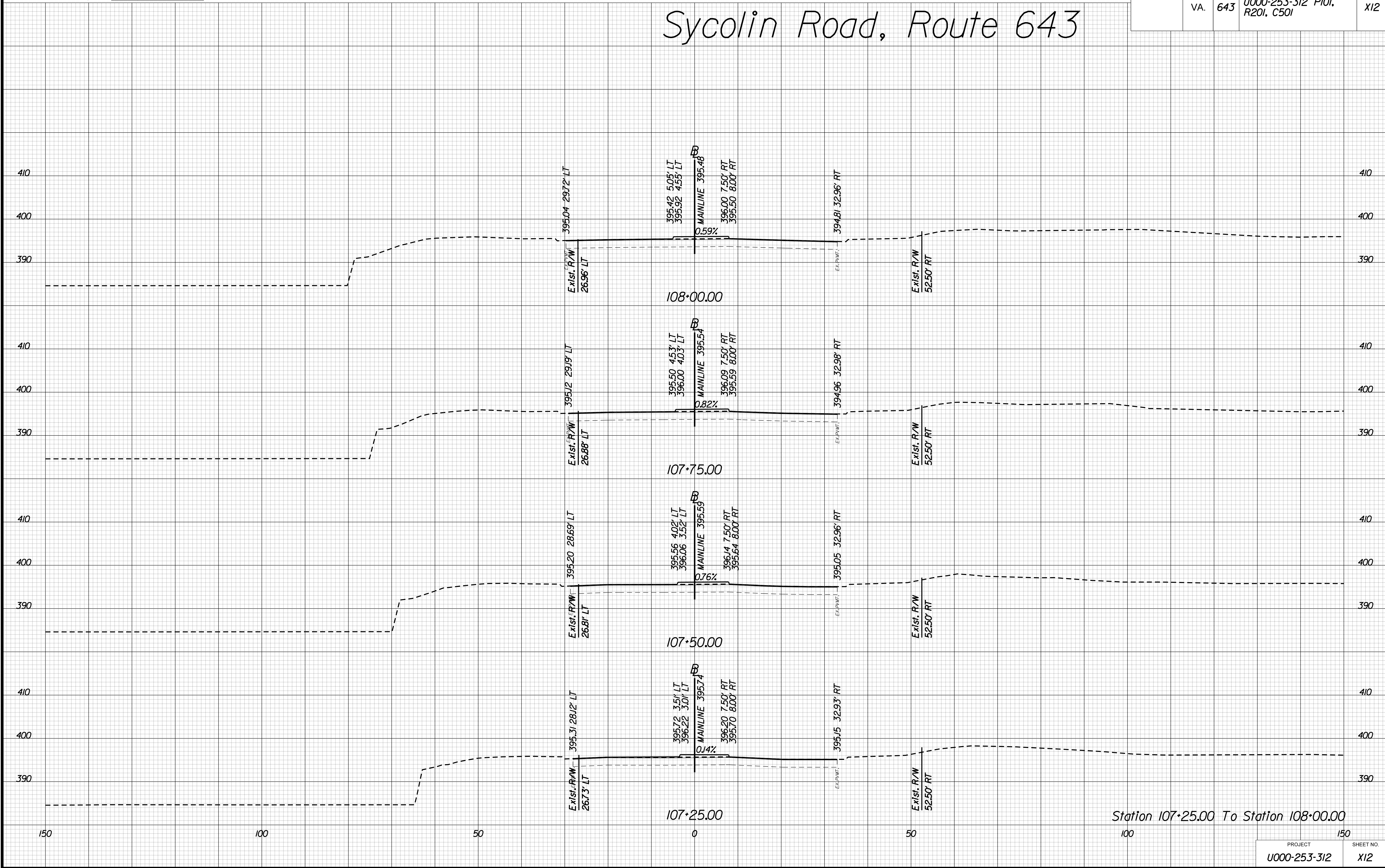
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X12

Sycolin Road, Route 643



Station 107+25.00 To Station 108+00.00

PROJECT	SHEET NO.
U000-253-312	X12

100% PLANS

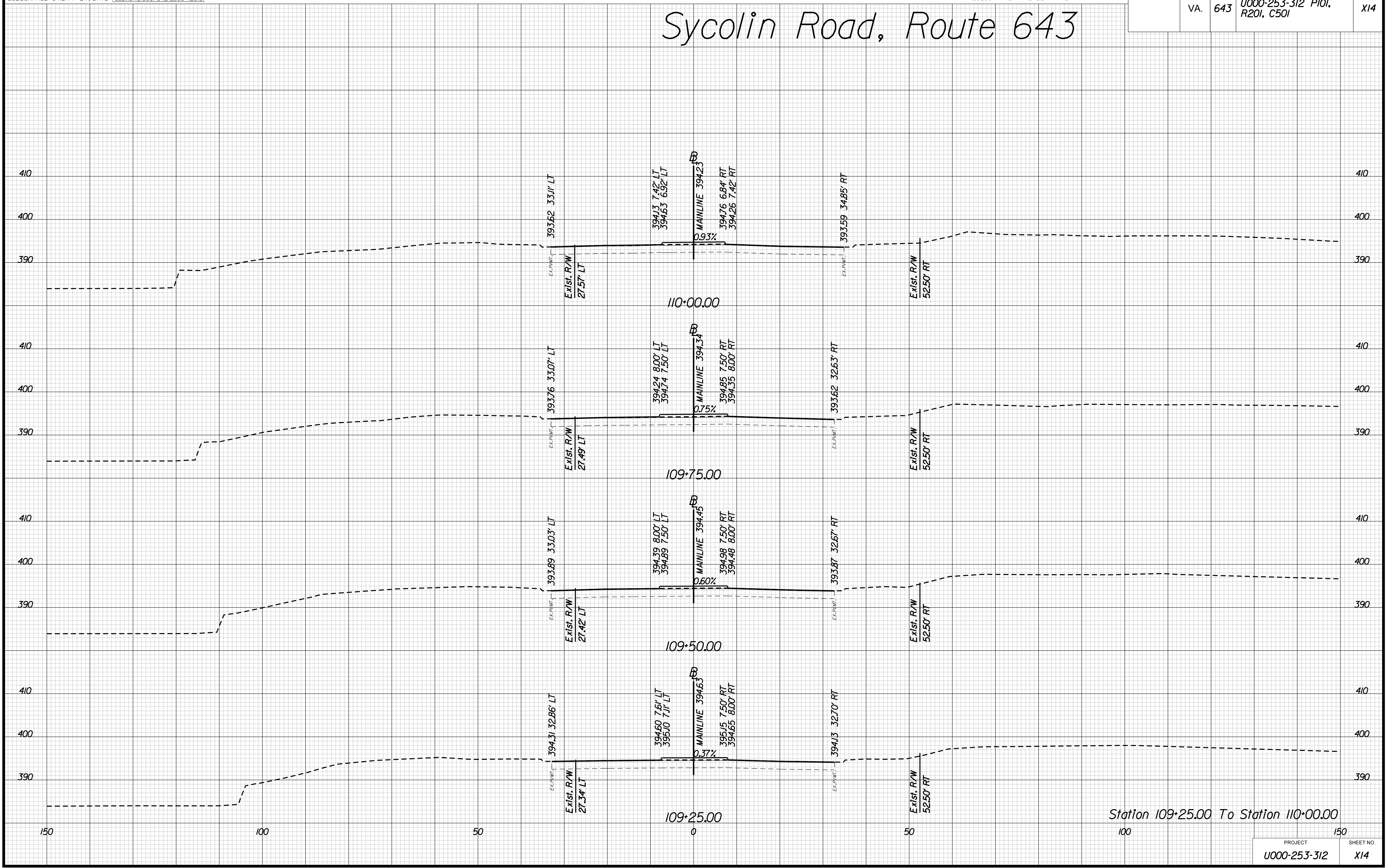
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X14

Sycolin Road, Route 643



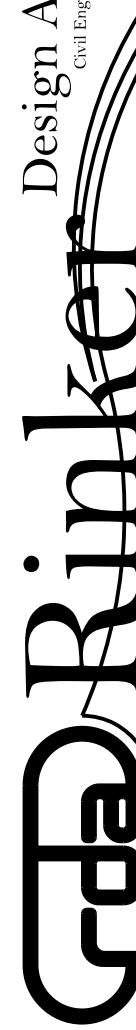
Station 109+25.00 To Station 110+00.00

PROJECT	SHEET NO.
U000-253-312	X14

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

Office Locations
Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services



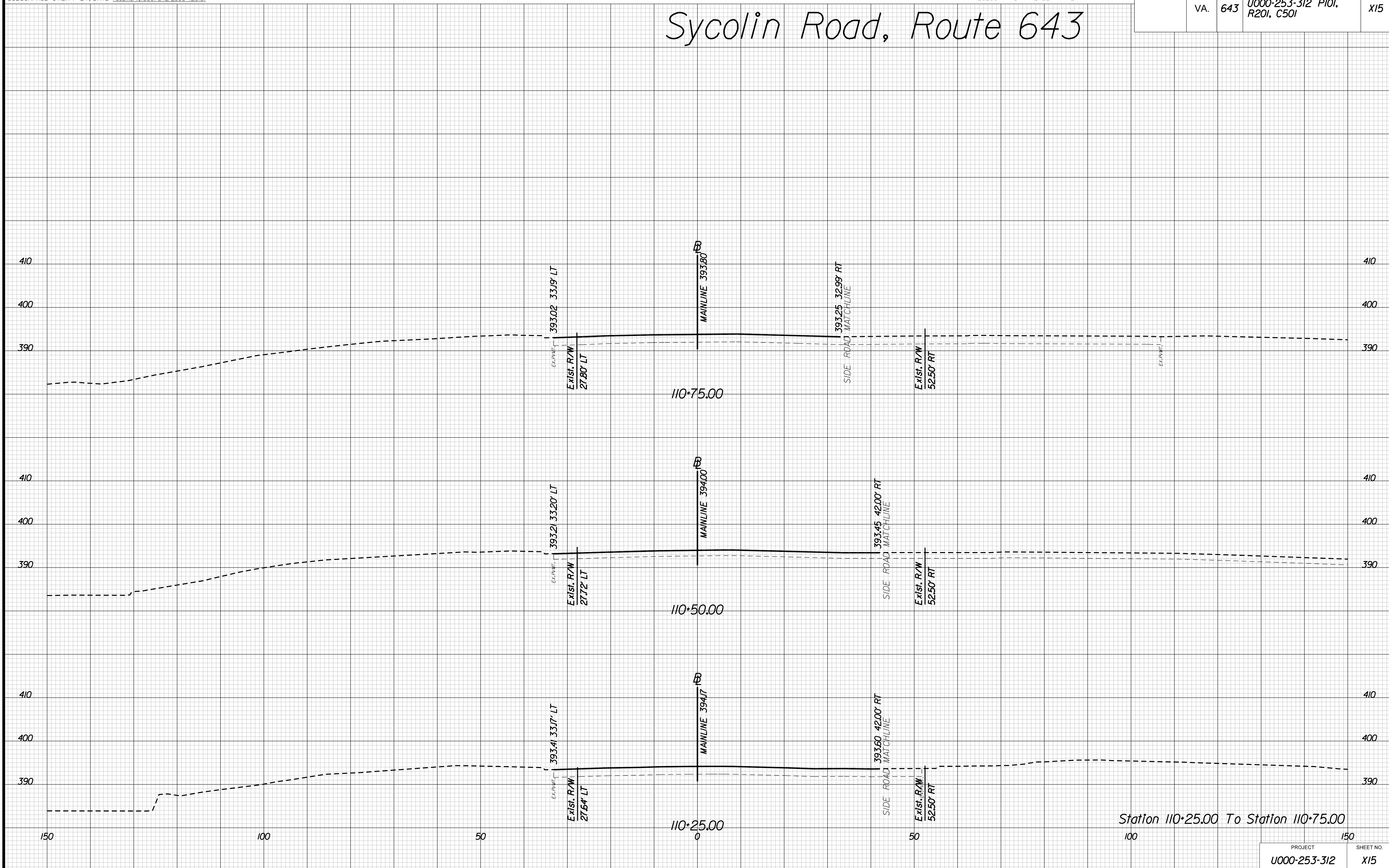
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X15

Sycolin Road, Route 643



Station 110+25.00 To Station 110+75.00

PROJECT	SHEET NO.
U000-253-312	X15

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)

 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)

 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)

 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

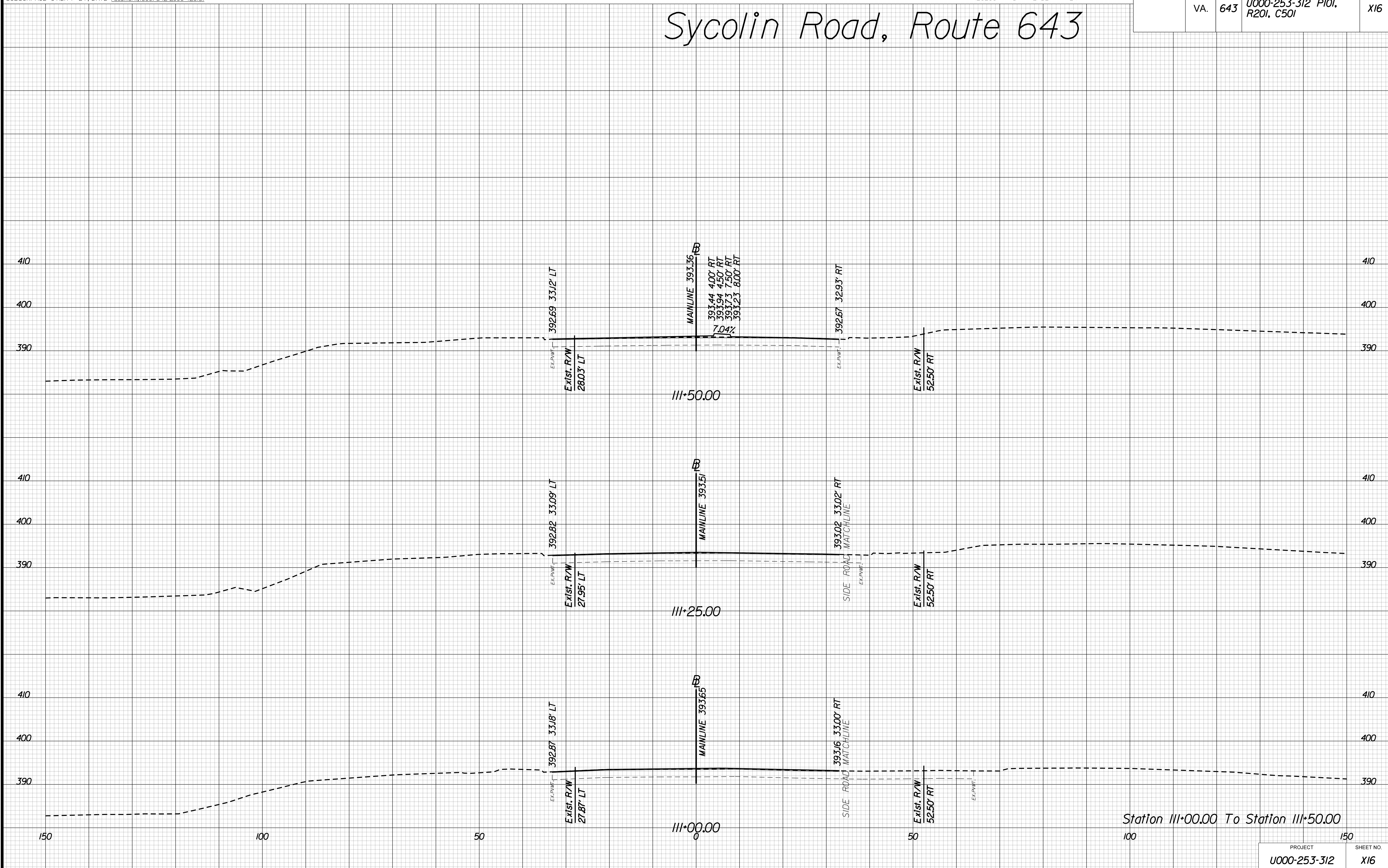
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X16

Sycolin Road, Route 643



Station III+00.00 To Station III+50.00

PROJECT	SHEET NO.
U000-253-312	X16

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)

 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)

 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)

 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION

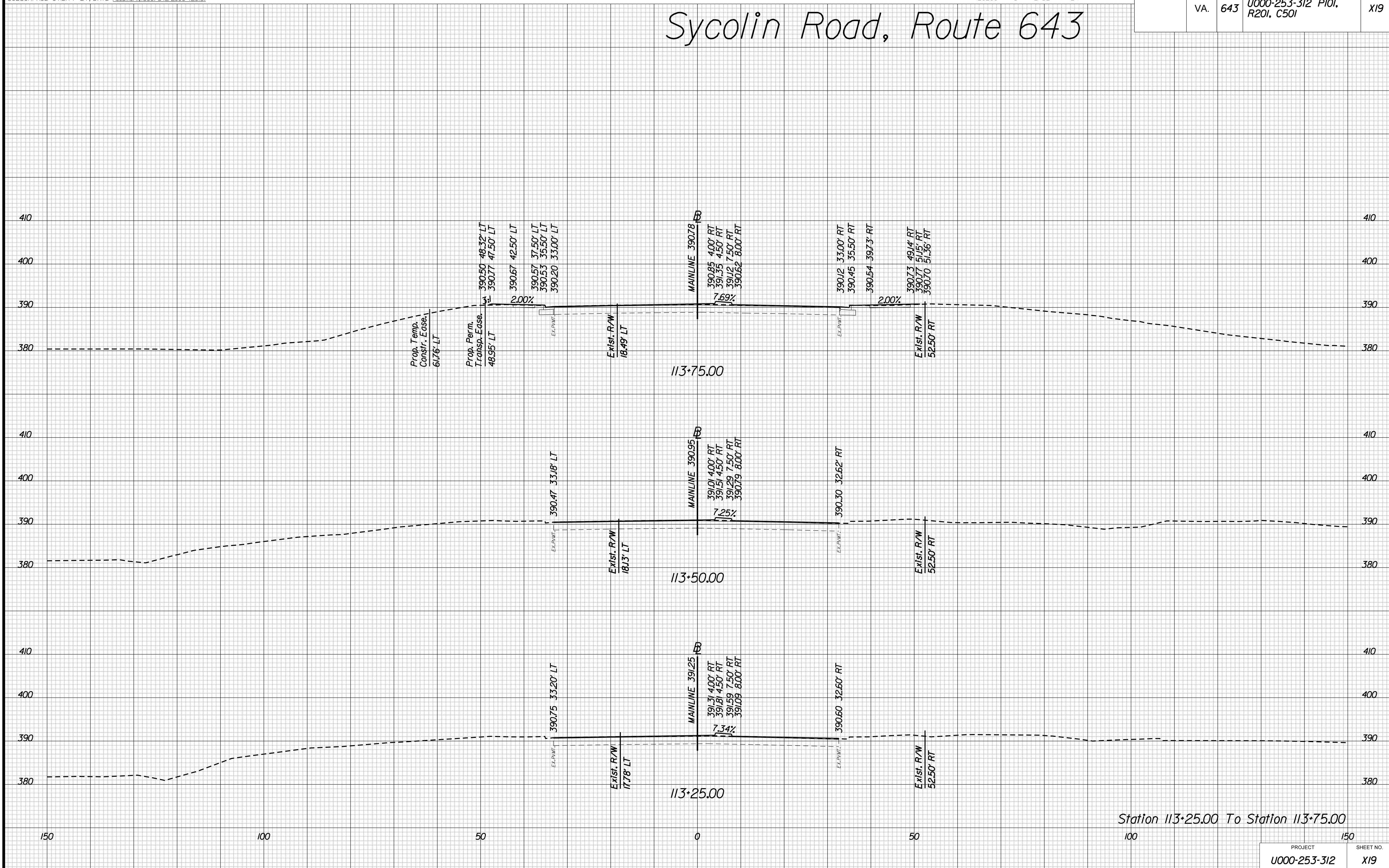
 OR TO REGULATION AND CONTROL OF TRAFFIC

 MAY BE SUBJECT TO CHANGE AS DEEMED

 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X19

Sycolin Road, Route 643



Station 113+25.00 To Station 113+75.00

PROJECT	SHEET NO.
U000-253-312	X19

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

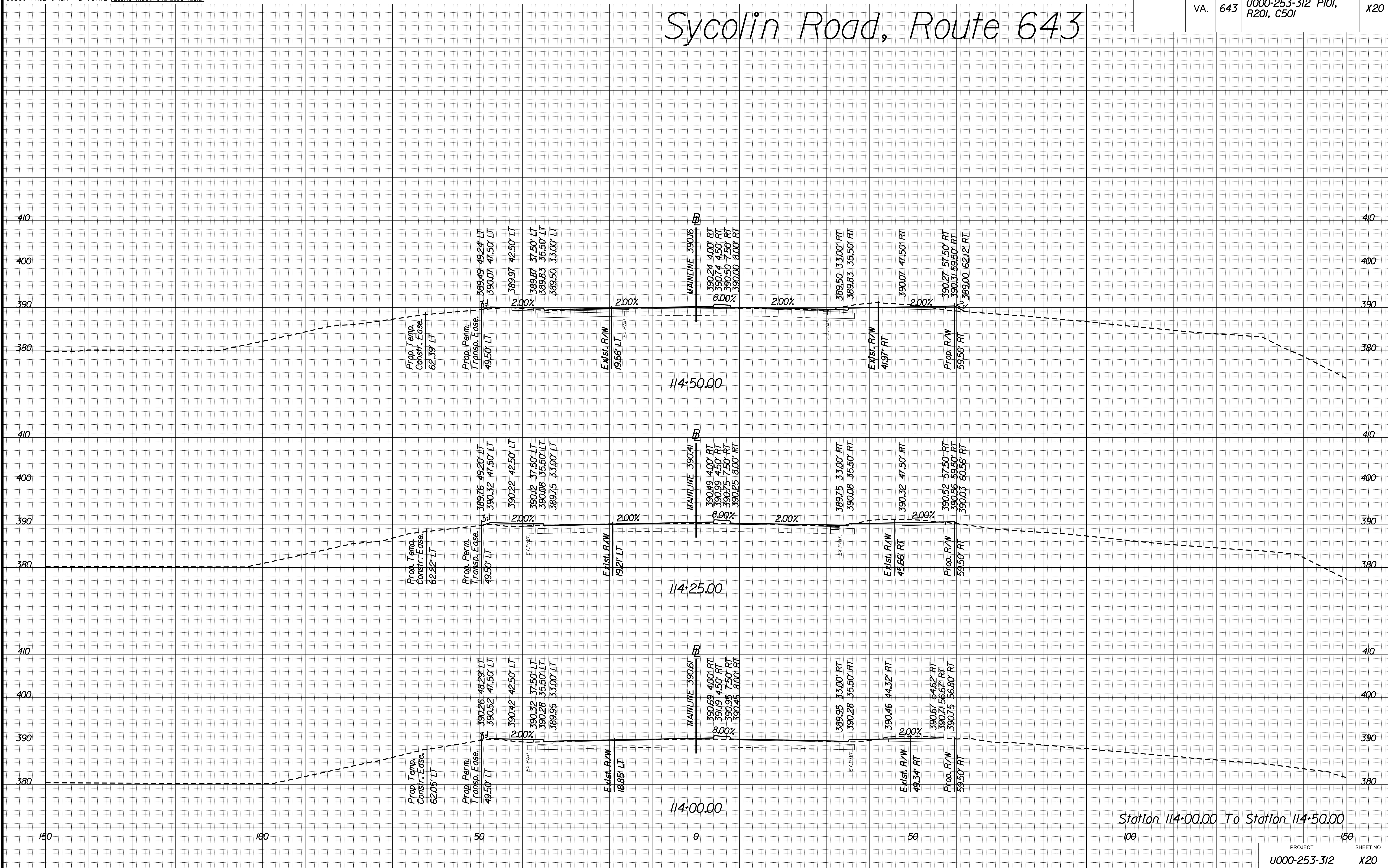
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X20

Sycolin Road, Route 643



Station 114+00.00 To Station 114+50.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	X20

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

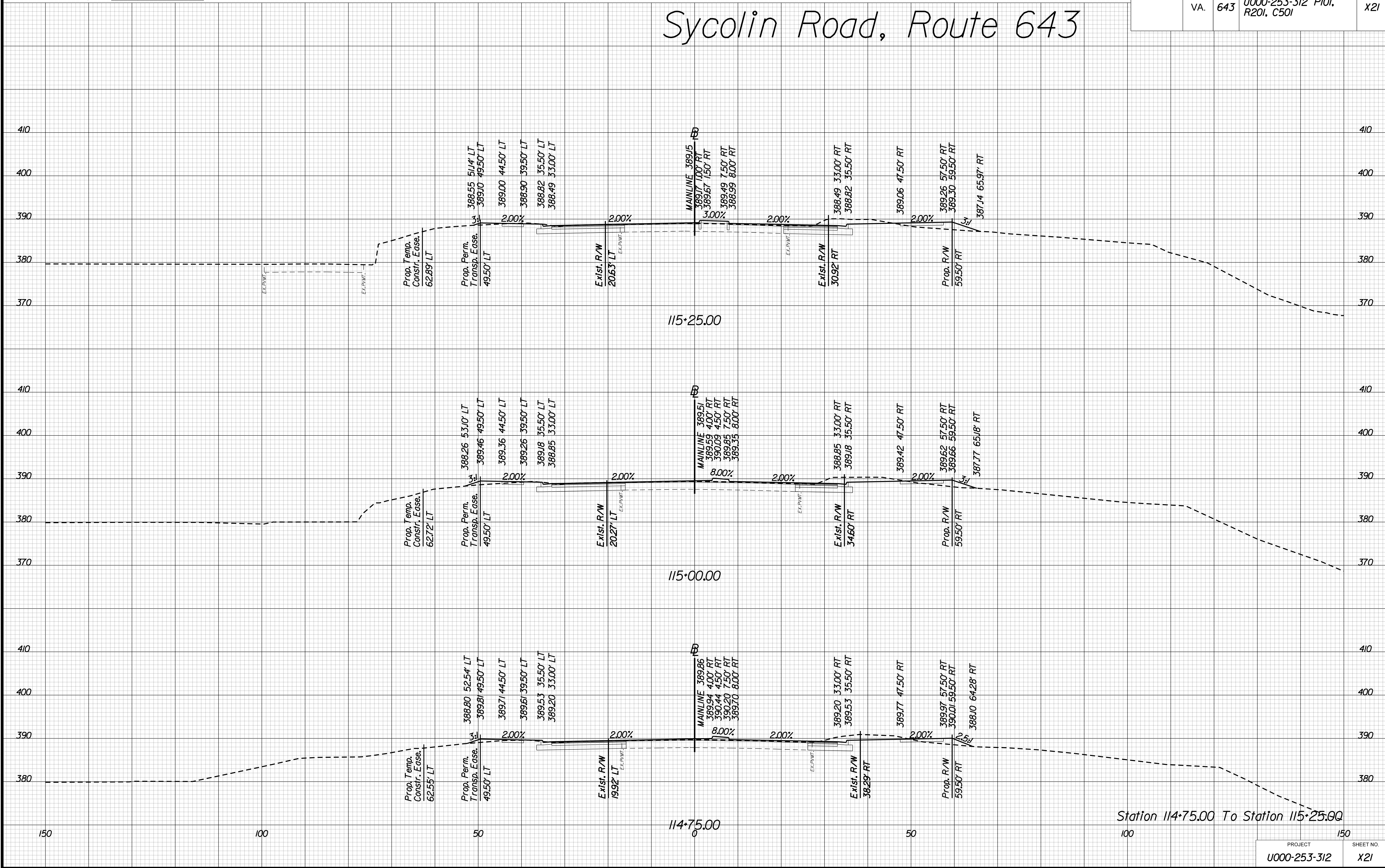
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X21

Sycolin Road, Route 643



Station 114+75.00 To Station 115+25.00

PROJECT	SHEET NO.
U000-253-312	X21

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

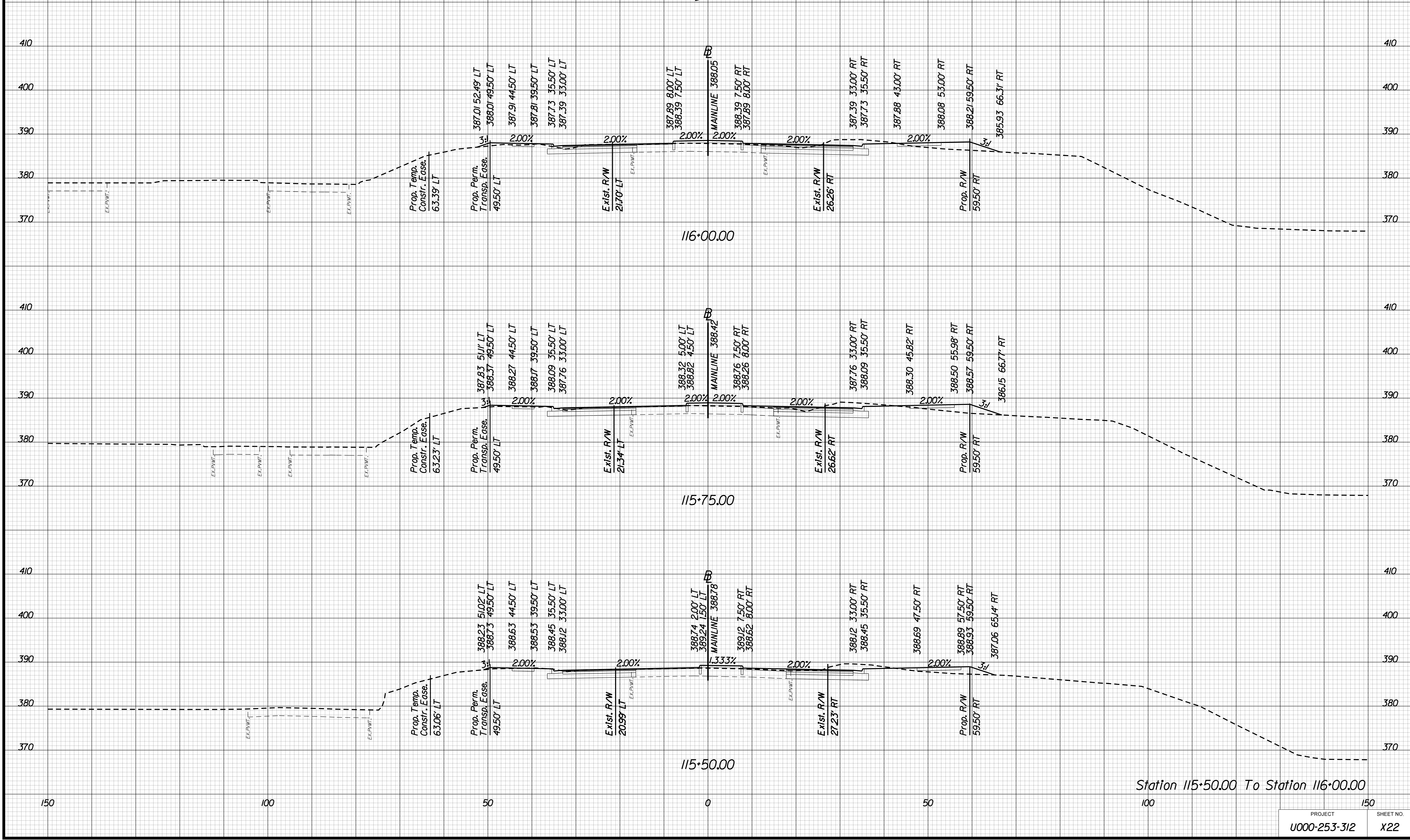
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Table with columns: REVISION, STATE, ROUTE, PROJECT, SHEET NO. Values: VA, 643, U000-253-312 P101, R201, C501, X22

Sycolin Road, Route 643



Station 115+50.00 To Station 116+00.00

Table with columns: PROJECT, SHEET NO. Values: U000-253-312, X22

100% PLANS

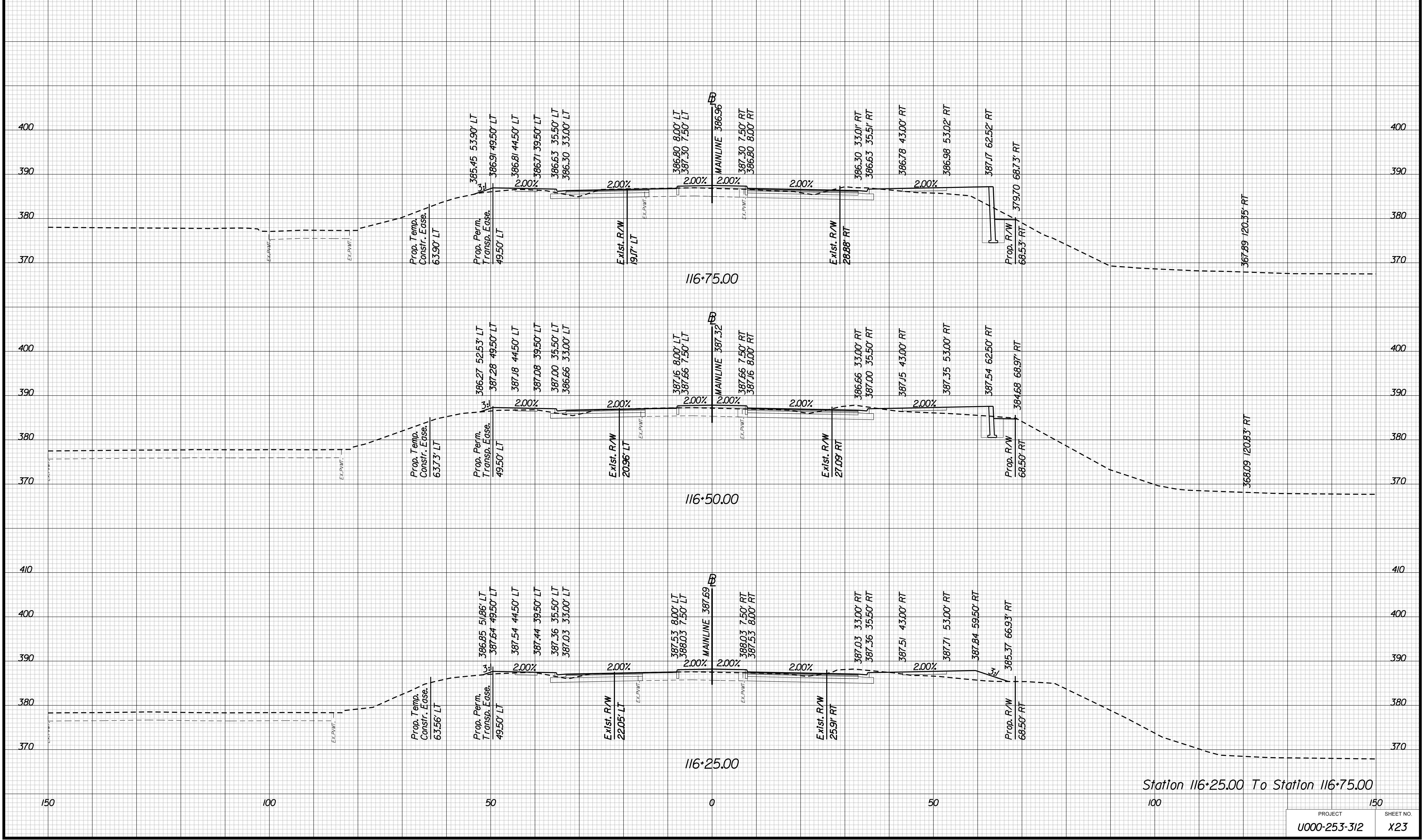
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	643		U000-253-312 P101, R201, C501	X23

Sycolin Road, Route 643



Station 116+25.00 To Station 116+75.00

PROJECT	SHEET NO.
U000-253-312	X23

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

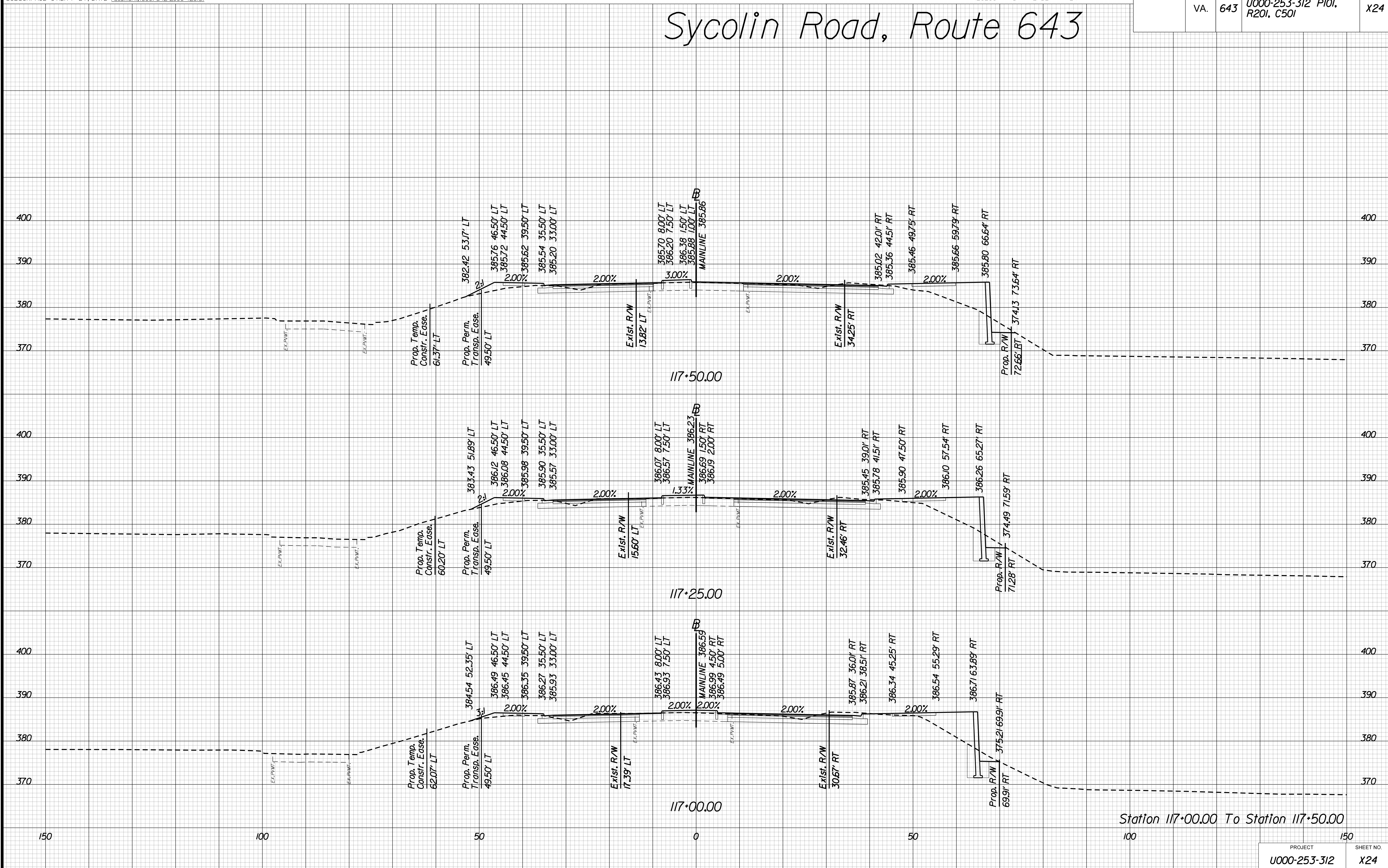
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X24

Sycolin Road, Route 643



100% PLANS

Office Locations

 3015 Commerce Boulevard

 Alexandria, VA 22304

 703.836.1100

 3000 Lakeside Drive, Suite 200

 Fairfax, VA 22031

 703.261.1100

 10000 Lee Highway, Suite 100

 Fairfax, VA 22030

 703.261.1100

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)

 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)

 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)


 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

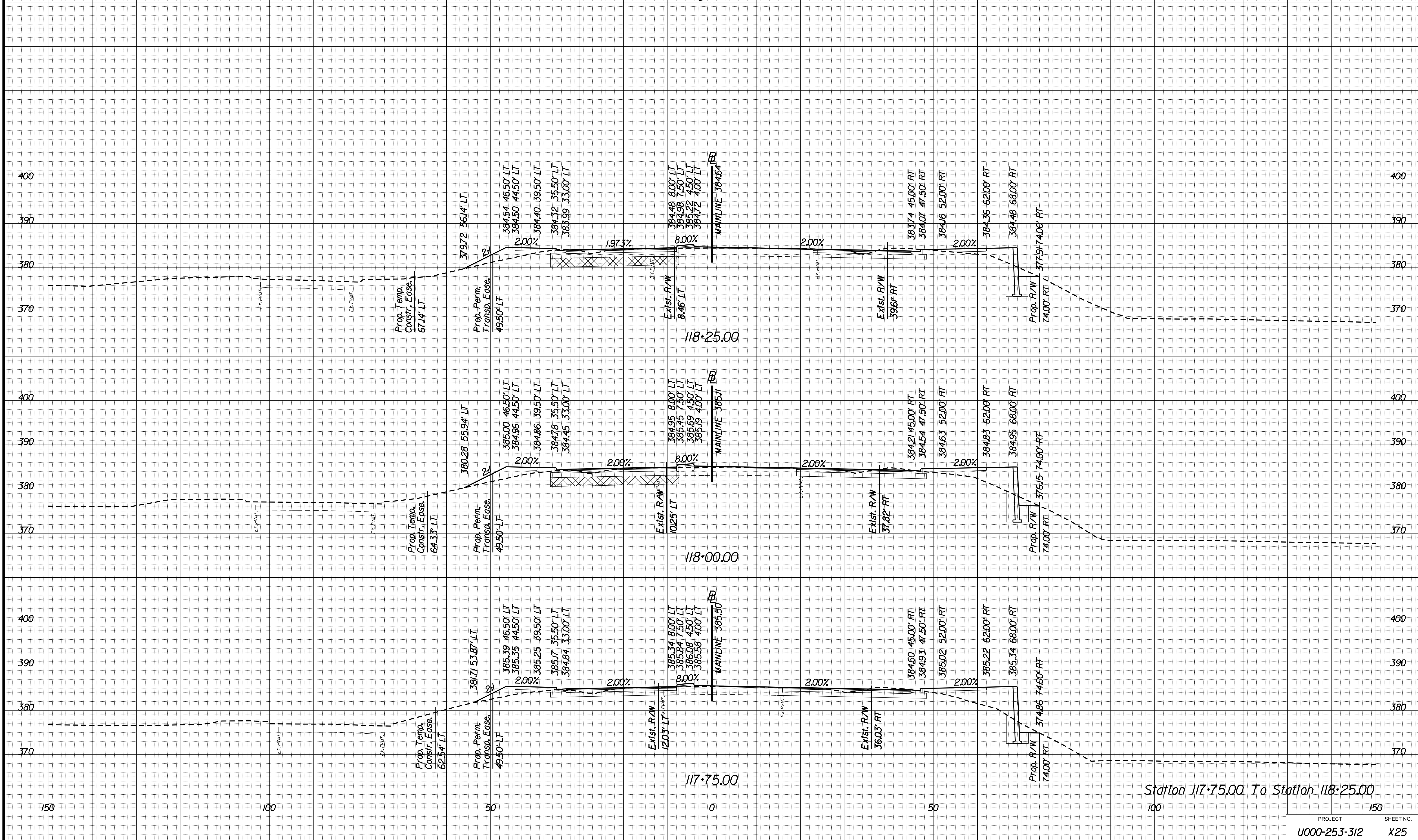
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X25


 Unsuitable material to be removed 2' below proposed subgrade (See Sheet 2A17) for recommended and alternate treatment

Sycolin Road, Route 643



Station 117+75.00 To Station 118+25.00

PROJECT	SHEET NO.
U000-253-312	X25

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

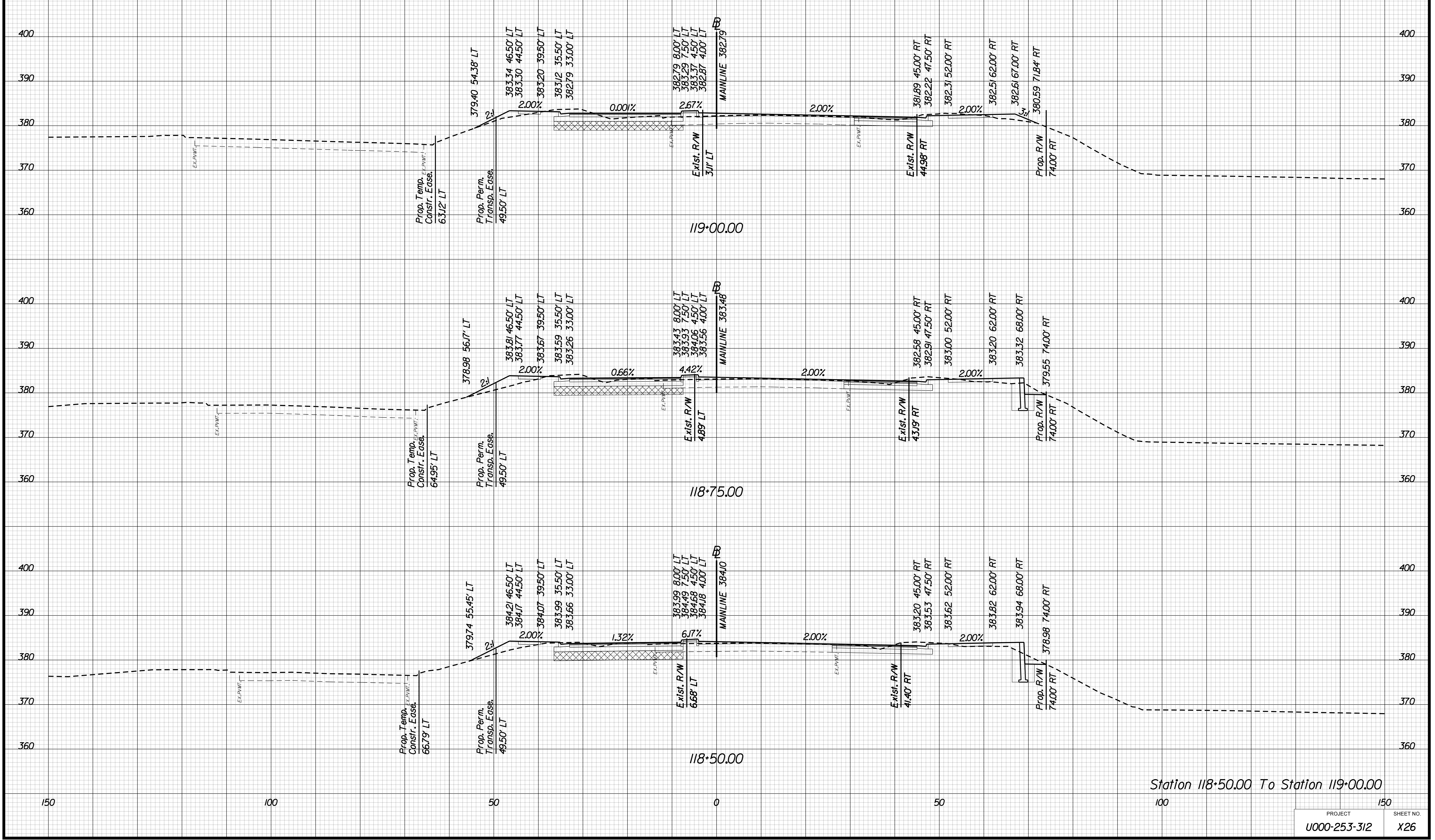
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X26

Unsuitable material to be removed 2' below proposed subgrade (See Sheet 2A17) for recommended and alternate treatment

Sycolin Road, Route 643



Station 118+50.00 To Station 119+00.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	X26

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

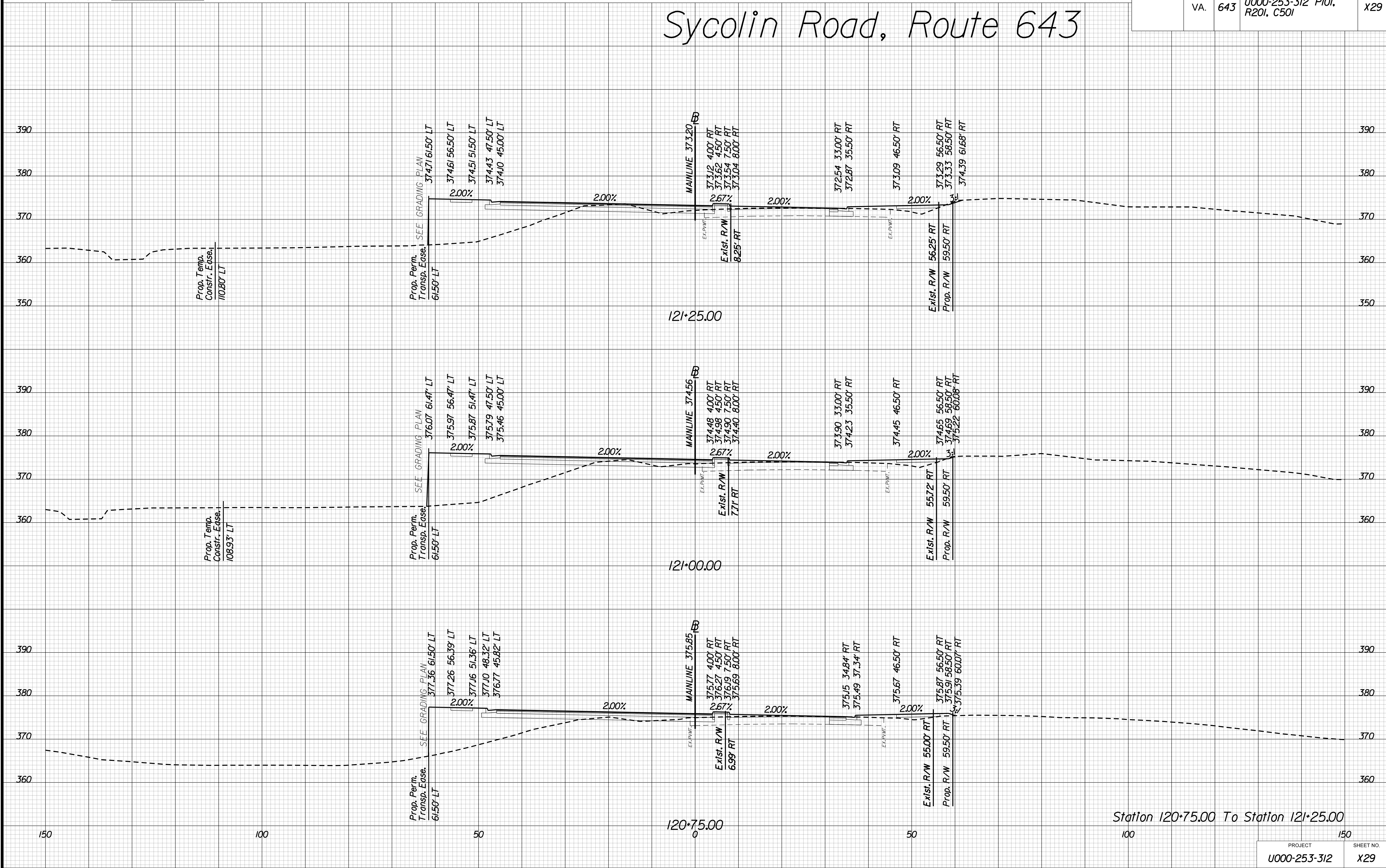
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X29

Sycolin Road, Route 643



Station 120+75.00 To Station 121+25.00

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

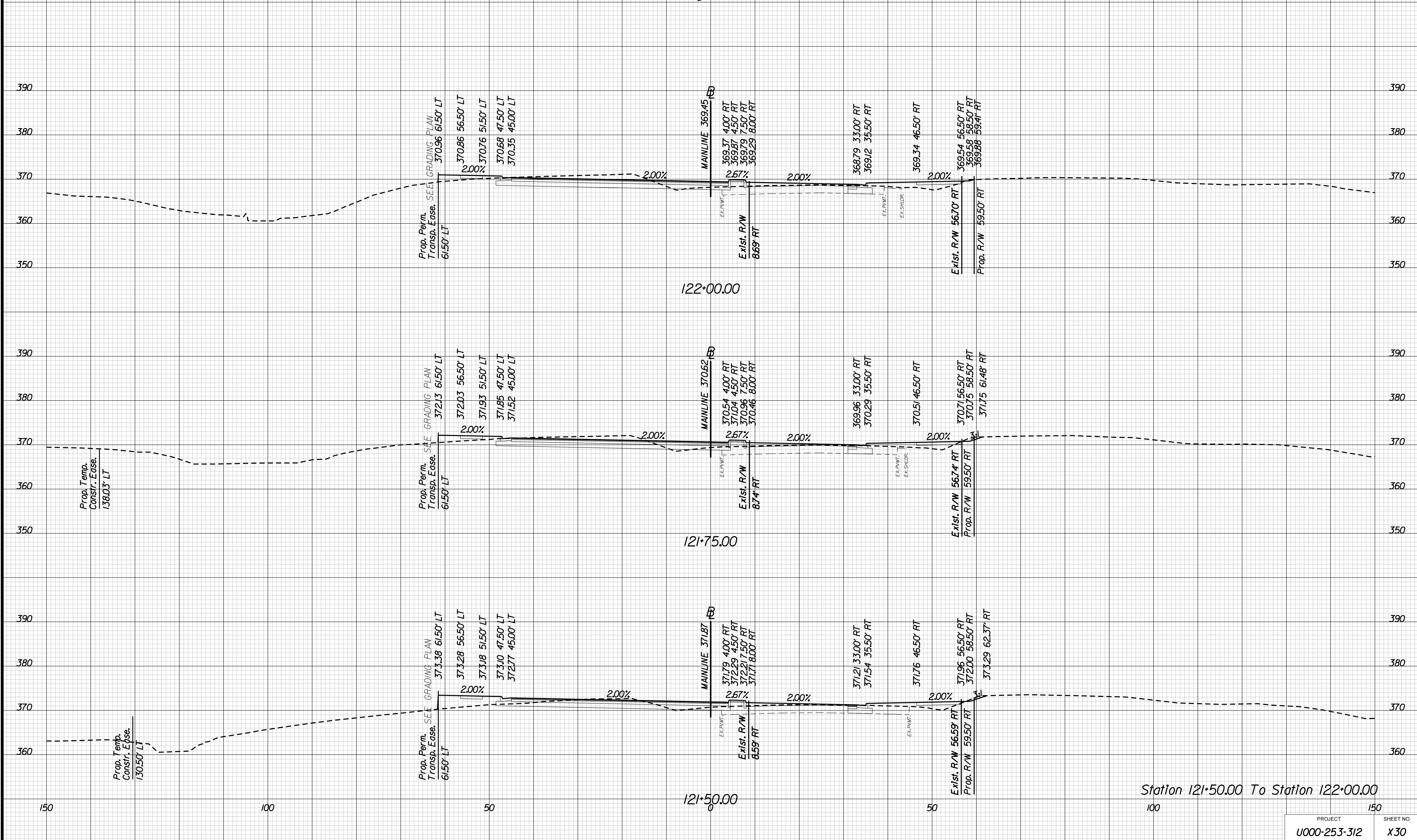
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X30

Sycolin Road, Route 643



Station 121+50.00 To Station 122+00.00

100% PLANS

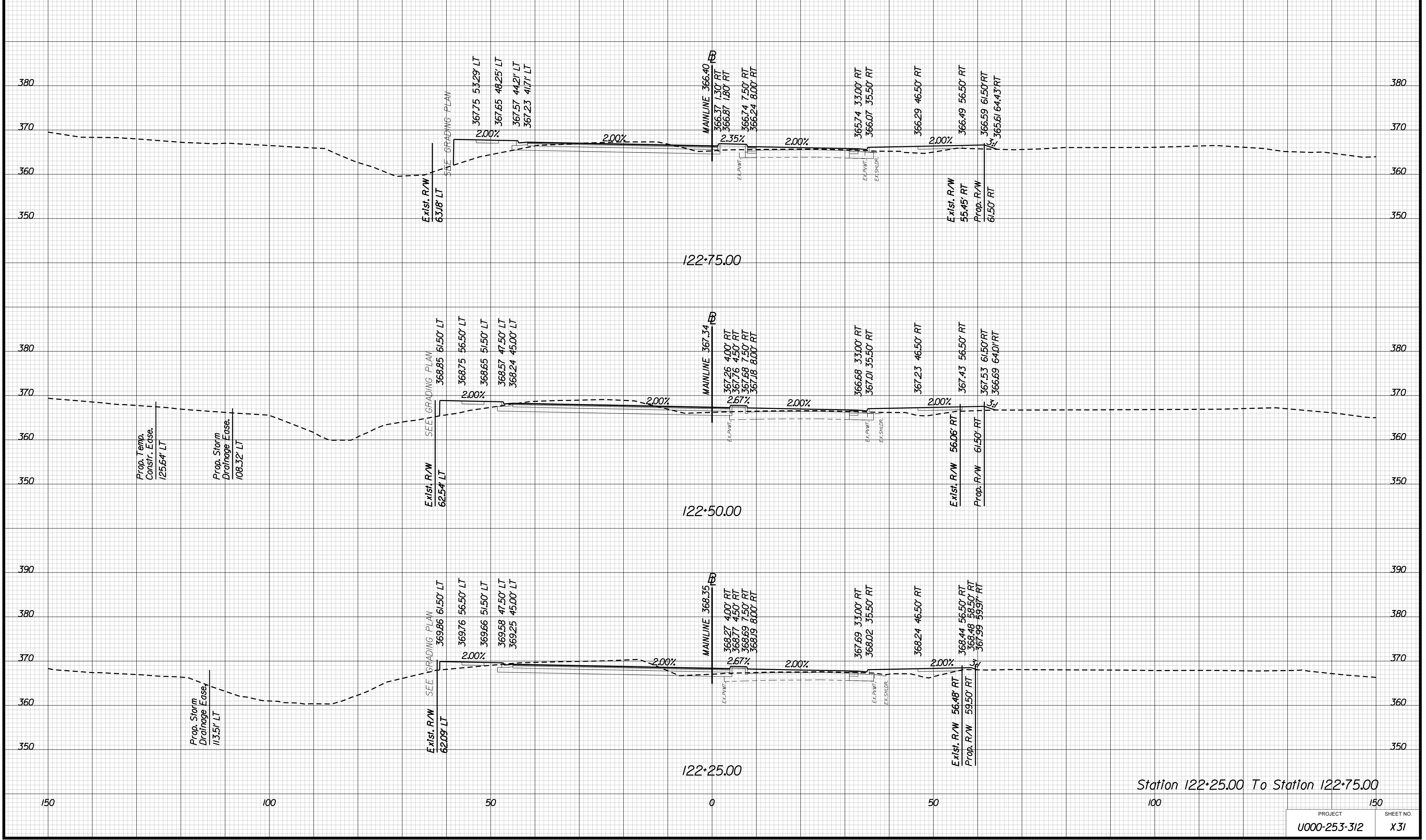
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X31

Sycolin Road, Route 643



100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

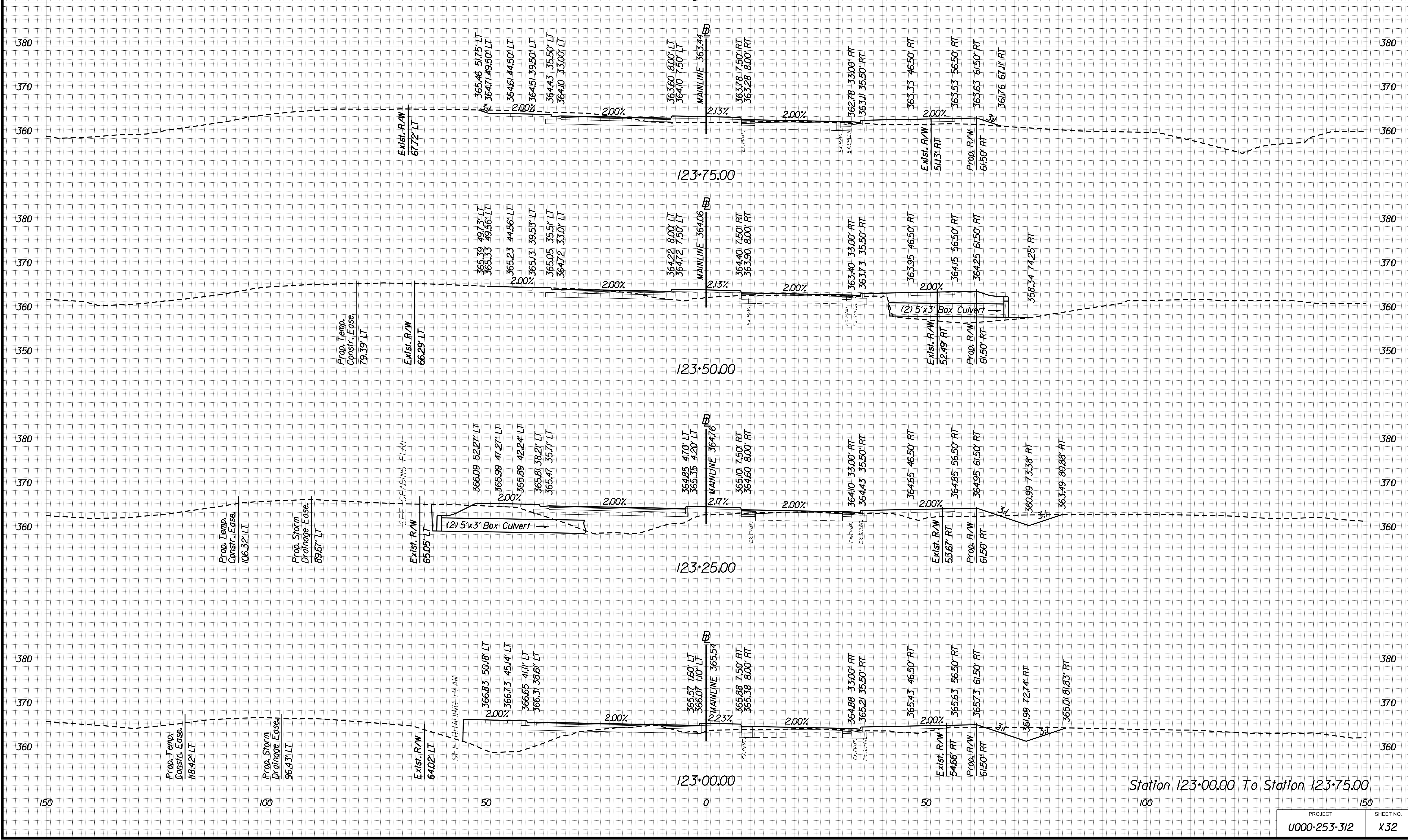
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X32

Sycolin Road, Route 643



100% PLANS

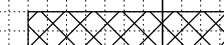
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

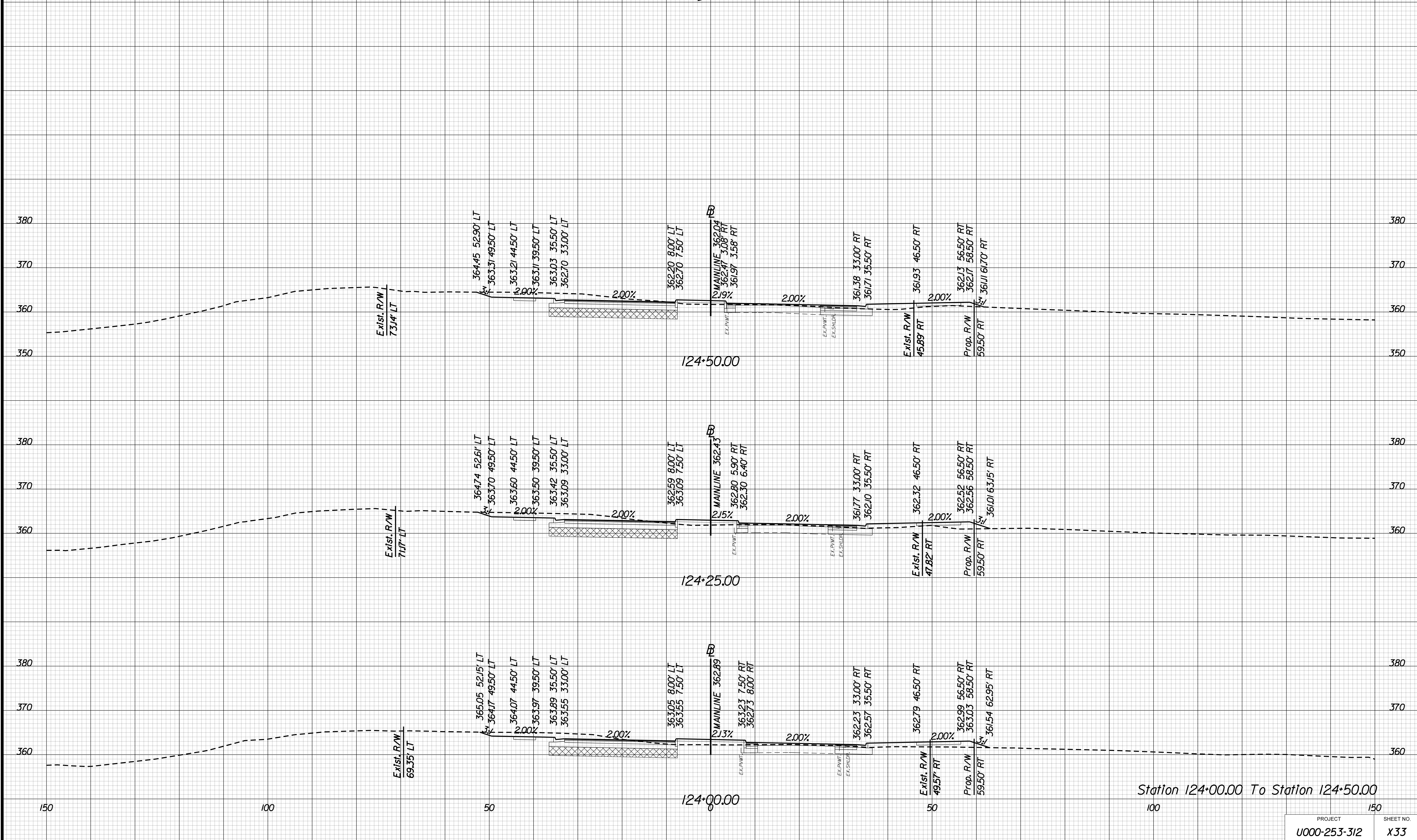
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X33


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment

Sycolin Road, Route 643



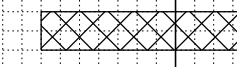
100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

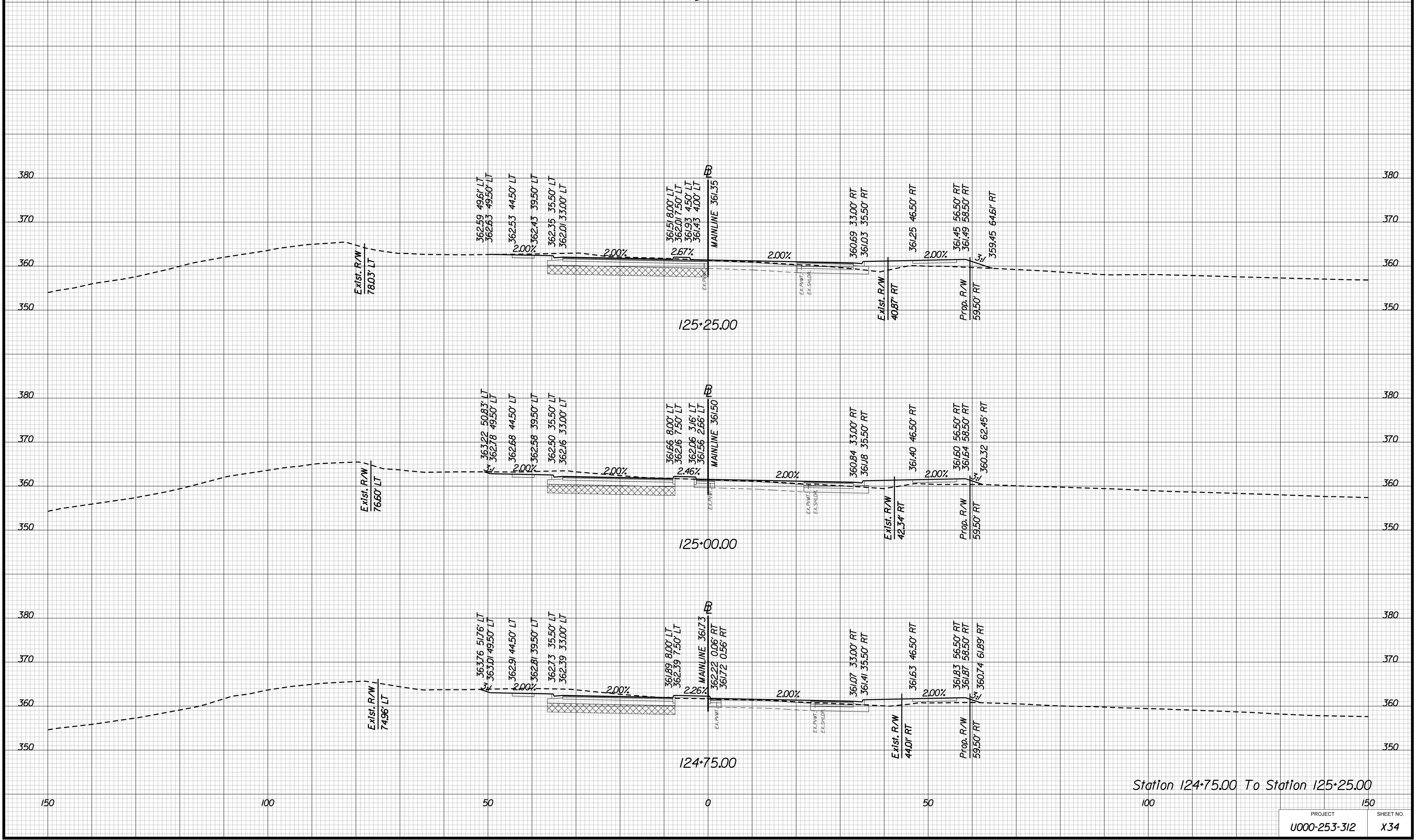
CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X34


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment

Sycolin Road, Route 643



Station 124+75.00 To Station 125+25.00

PROJECT	SHEET NO.
U000-253-312	X34

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

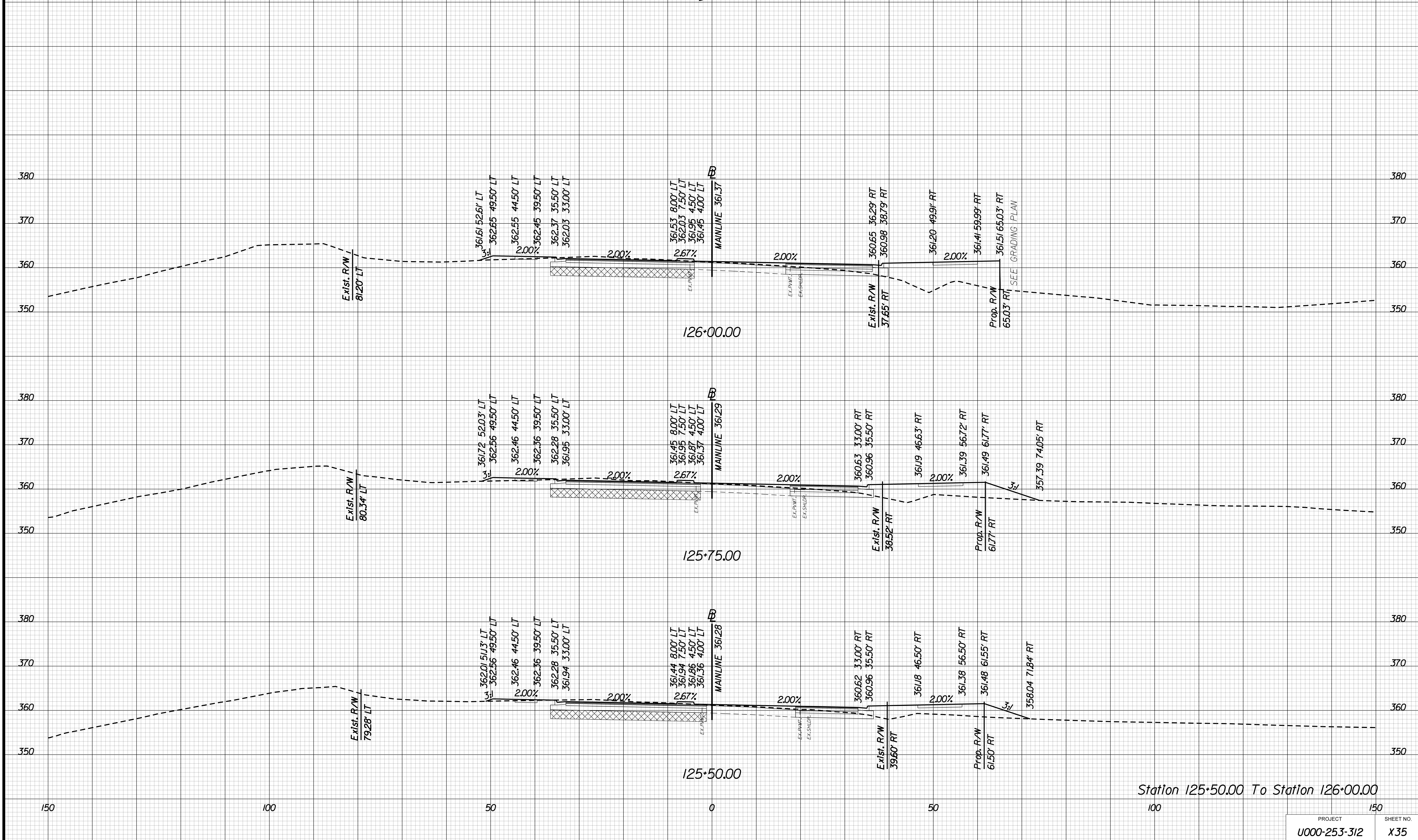
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X35

Unsuitable material to be removed 2' below proposed subgrade (See Sheet 2A17) for recommended and alternate treatment

Sycolin Road, Route 643



Station 125+50.00 To Station 126+00.00

PROJECT	SHEET NO.
U000-253-312	X35

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

Office Locations
 Rinker Design Associates, P.C.
 Civil Engineers
 Transportation - Environmental
 Right of Way Services

8 TIME \$T AMPS

CROSS SECTIONS

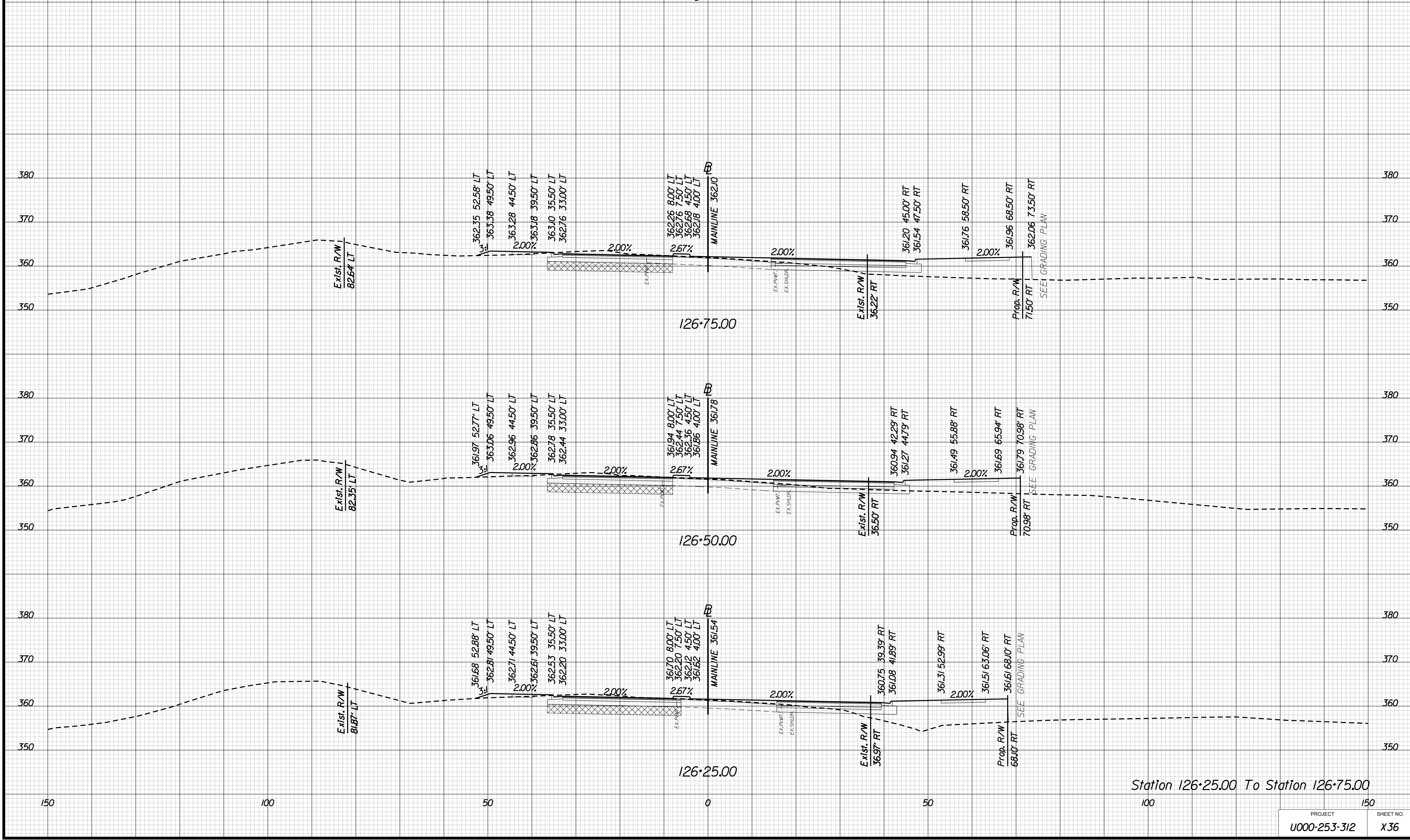
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X36

Unsuitable material to be removed 2' below proposed subgrade (See Sheet 2A17) for recommended and alternate treatment

Sycolin Road, Route 643



Station 126*25.00 To Station 126*75.00

PROJECT	SHEET NO.
U000-253-312	X36

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

Office Locations
Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services

#TIME\$T\$AMPS

CROSS SECTIONS

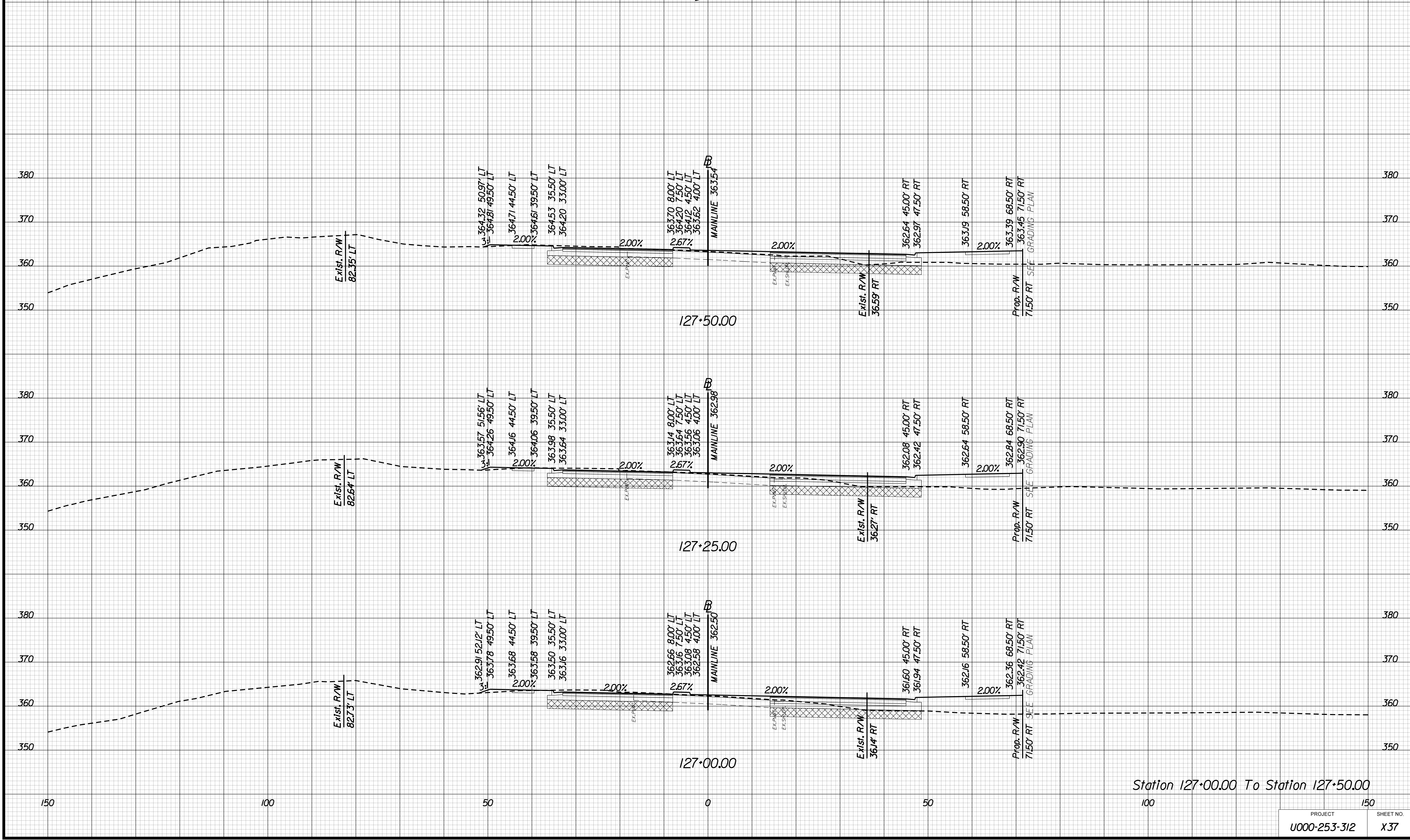
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X37

Unsuitable material to be removed 2' below proposed subgrade (See Sheet 2A17) for recommended and alternate treatment

Sycolin Road, Route 643



100% PLANS


PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

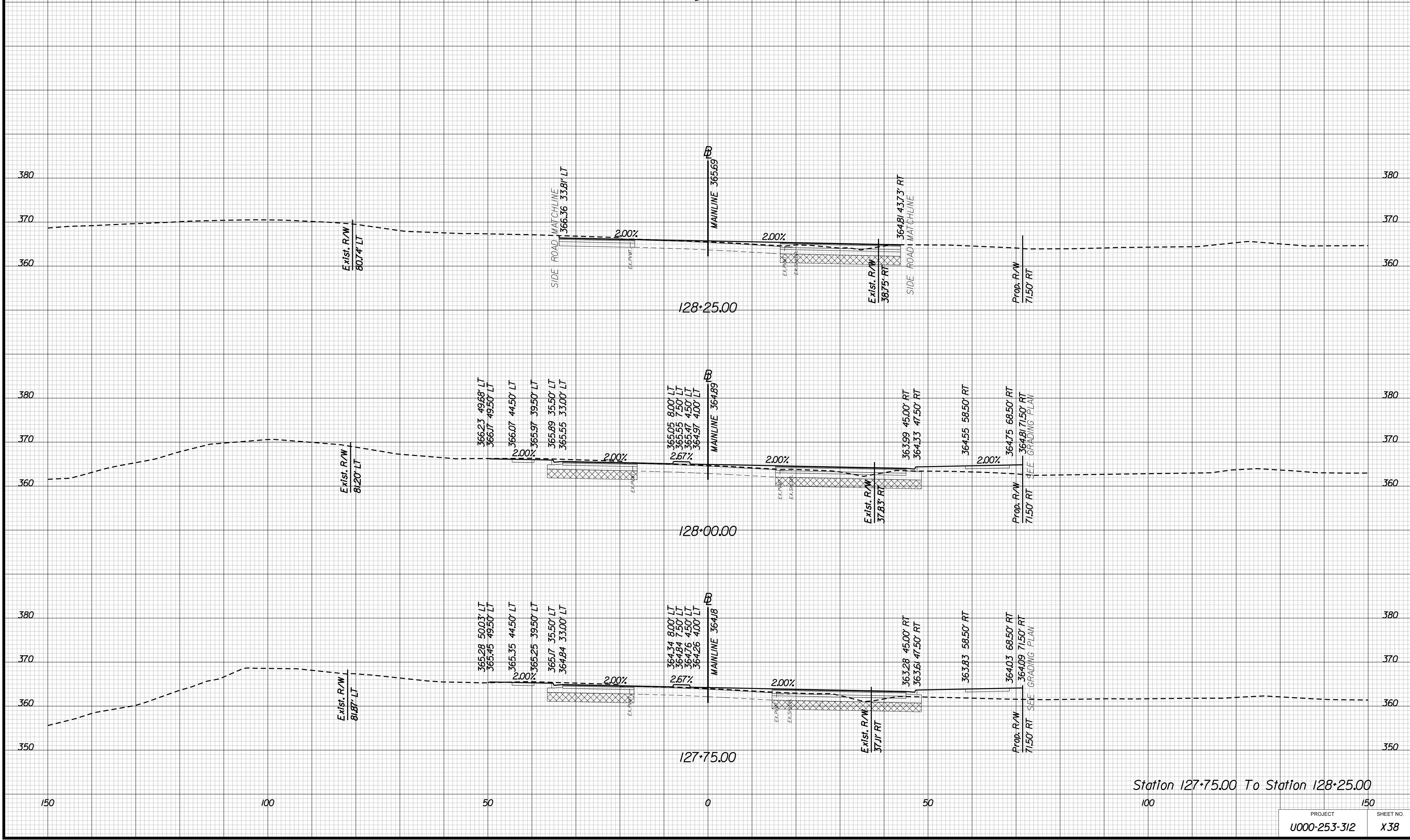
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	643		U000-253-312 P101, R201, C501	X38


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment)

Sycolin Road, Route 643



Station 127+75.00 To Station 128+25.00

PROJECT	SHEET NO.
U000-253-312	X38

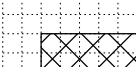
100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

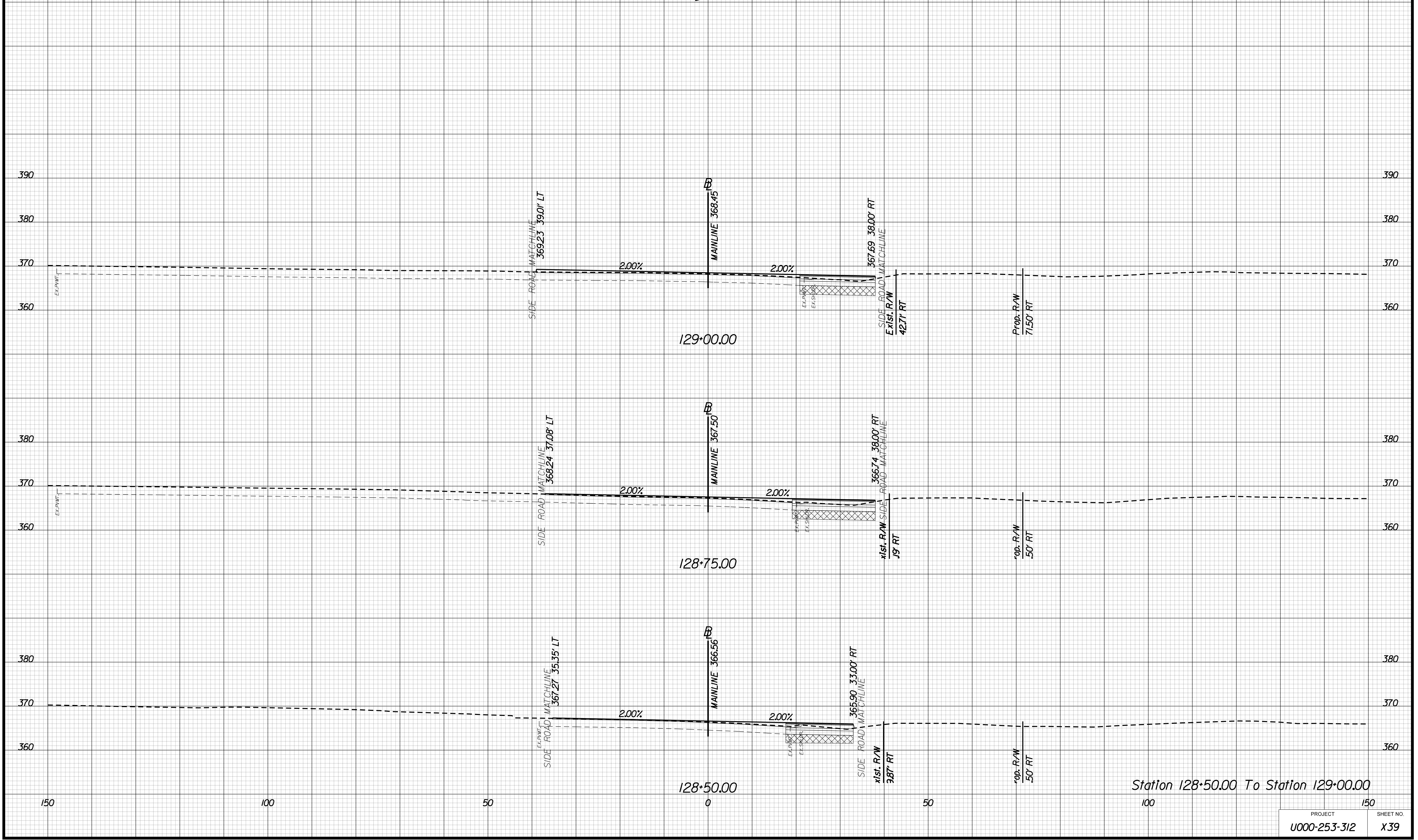
CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X39


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment

Sycolin Road, Route 643



Station 128+50.00 To Station 129+00.00

PROJECT	SHEET NO.
U000-253-312	X39

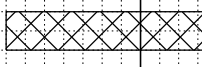
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

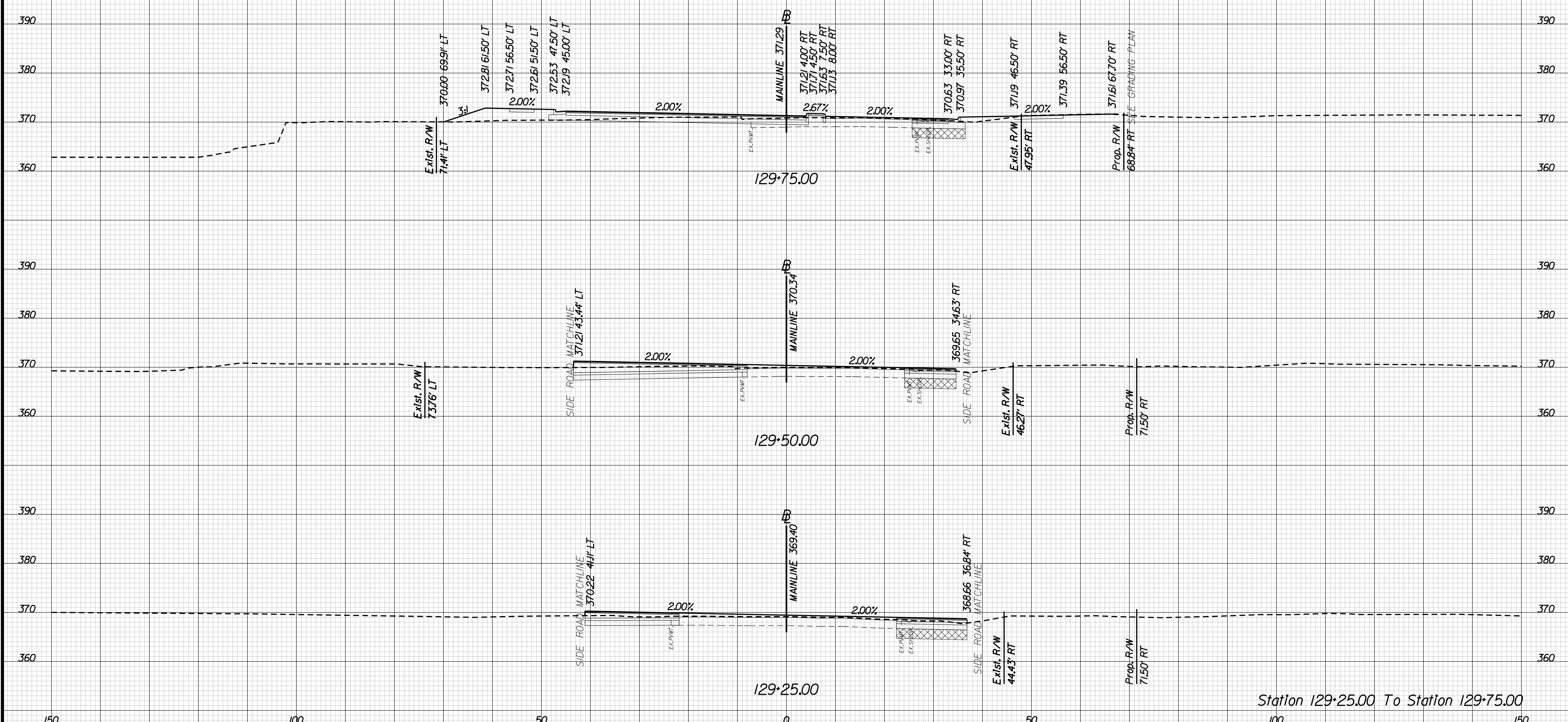
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X40


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment

Sycolin Road, Route 643



Station 129+25.00 To Station 129+75.00

PROJECT	SHEET NO.
U000-253-312	X40

100% PLANS

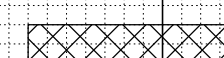
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

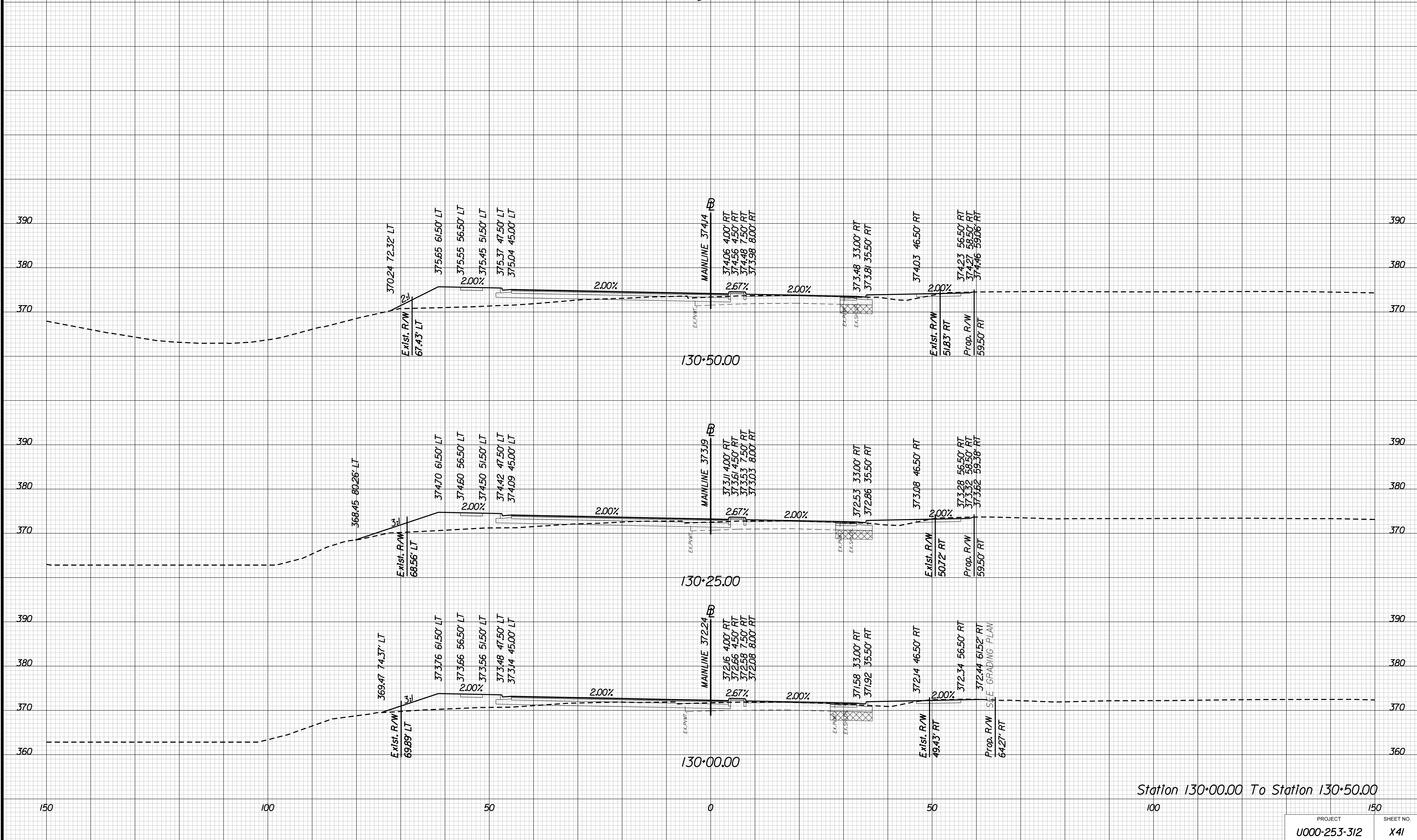
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P10I, R20I, C50I	X4I


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment)

Sycolin Road, Route 643



Station 130+00.00 To Station 130+50.00

PROJECT	SHEET NO.
U000-253-312	X4I

100% PLANS

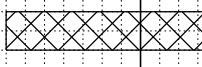
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

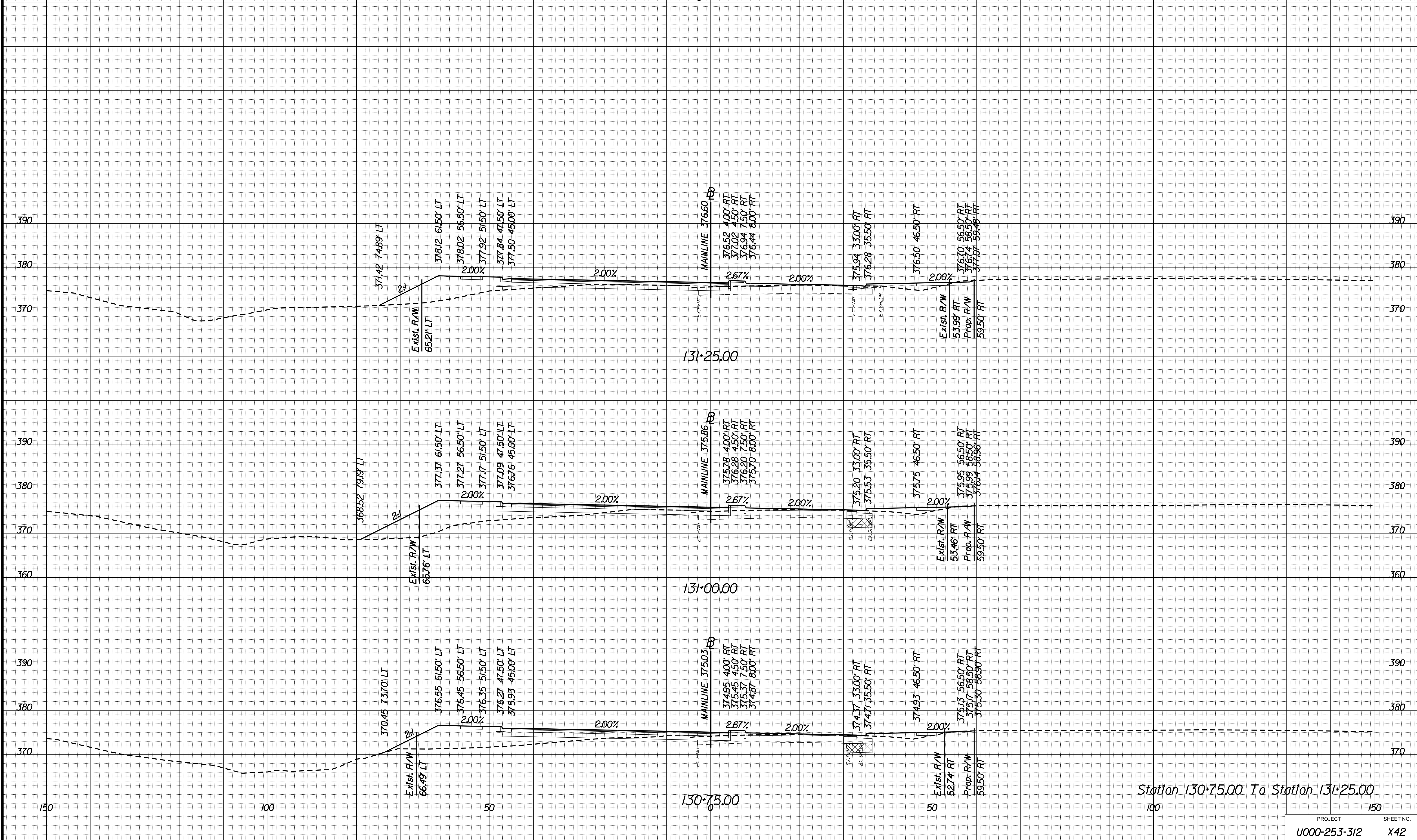
SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X42


 Unsuitable material to be removed
 2' below proposed subgrade
 (See Sheet 2A17) for recommended
 and alternate treatment

Sycolin Road, Route 643



100% PLANS

811 Mark Center Drive

 Mark Center, VA 22091

 Phone: (703) 368-7373

 Fax: (703) 368-7373

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)

 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)

 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)

 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION

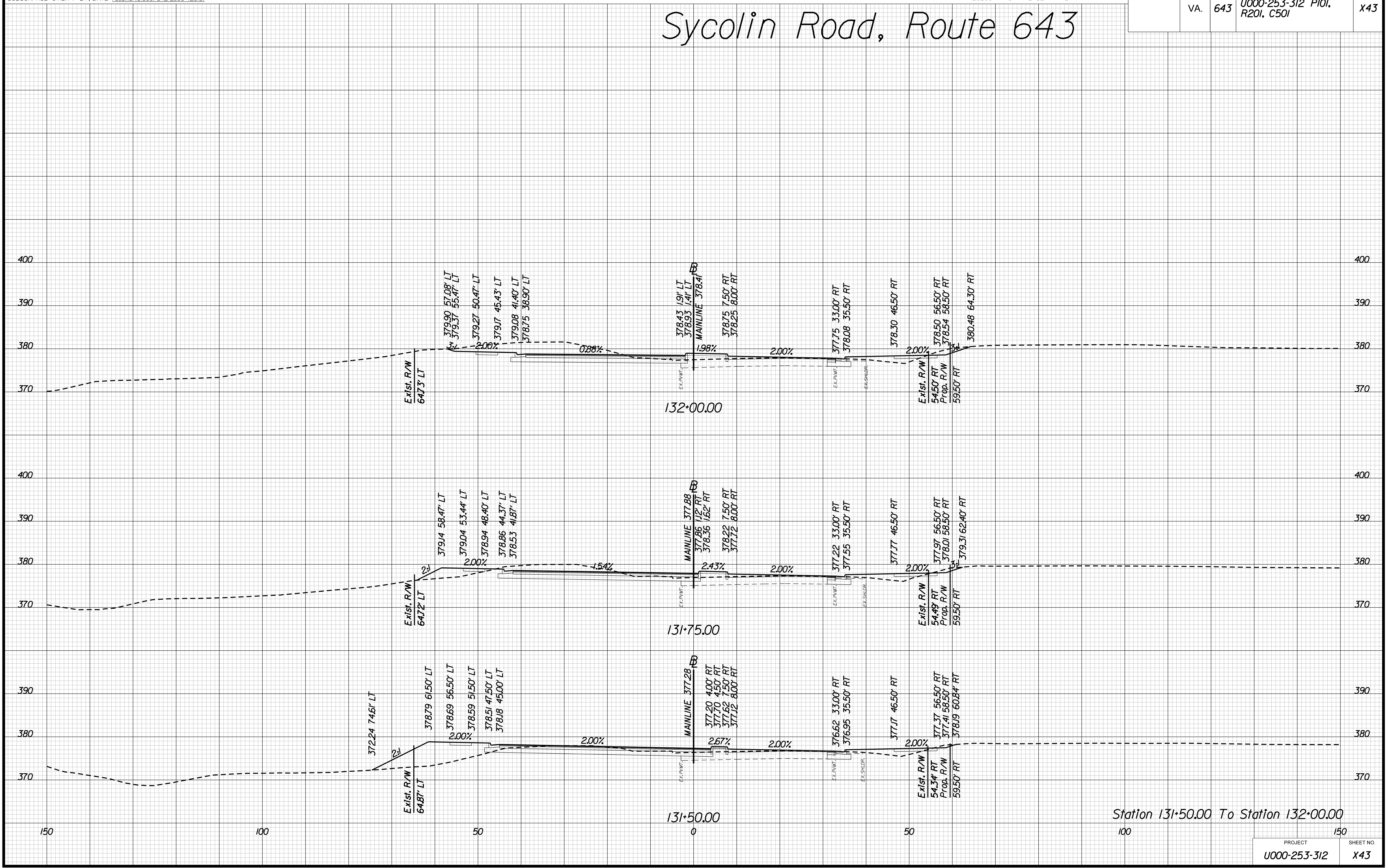
 OR TO REGULATION AND CONTROL OF TRAFFIC

 MAY BE SUBJECT TO CHANGE AS DEEMED

 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X43

Sycolin Road, Route 643



Station 131+50.00 To Station 132+00.00

PROJECT	SHEET NO.
U000-253-312	X43

100% PLANS

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

Office Locations
 Rinker Design Associates, P.C.
 Civil Engineers
 Transportation - Environmental
 Right of Way Services

8 TIME \$T AMPS

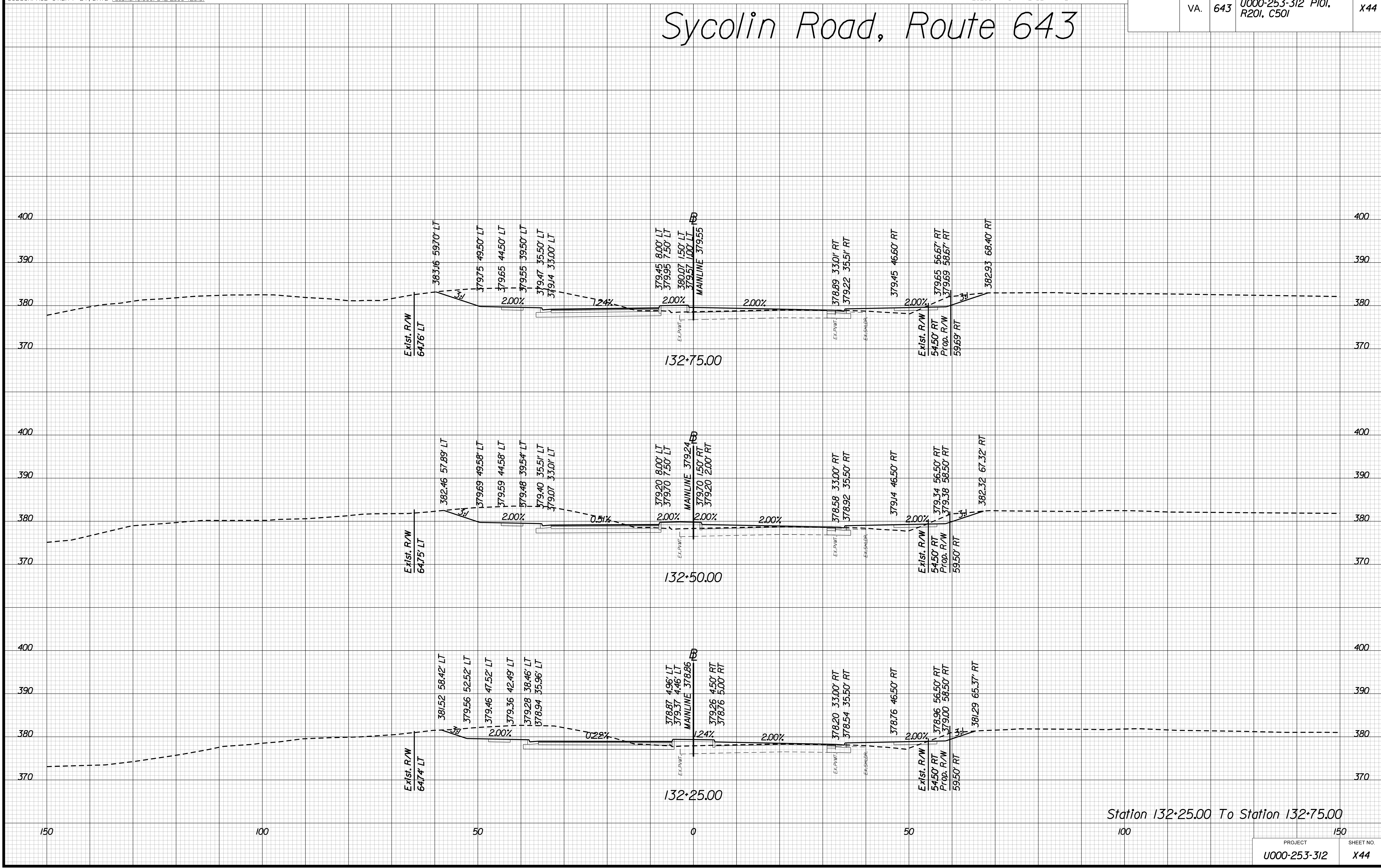
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X44

Sycolin Road, Route 643



Station 132+25.00 To Station 132+75.00

100% PLANS

PROJECT	SHEET NO.
U000-253-312	X44

PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

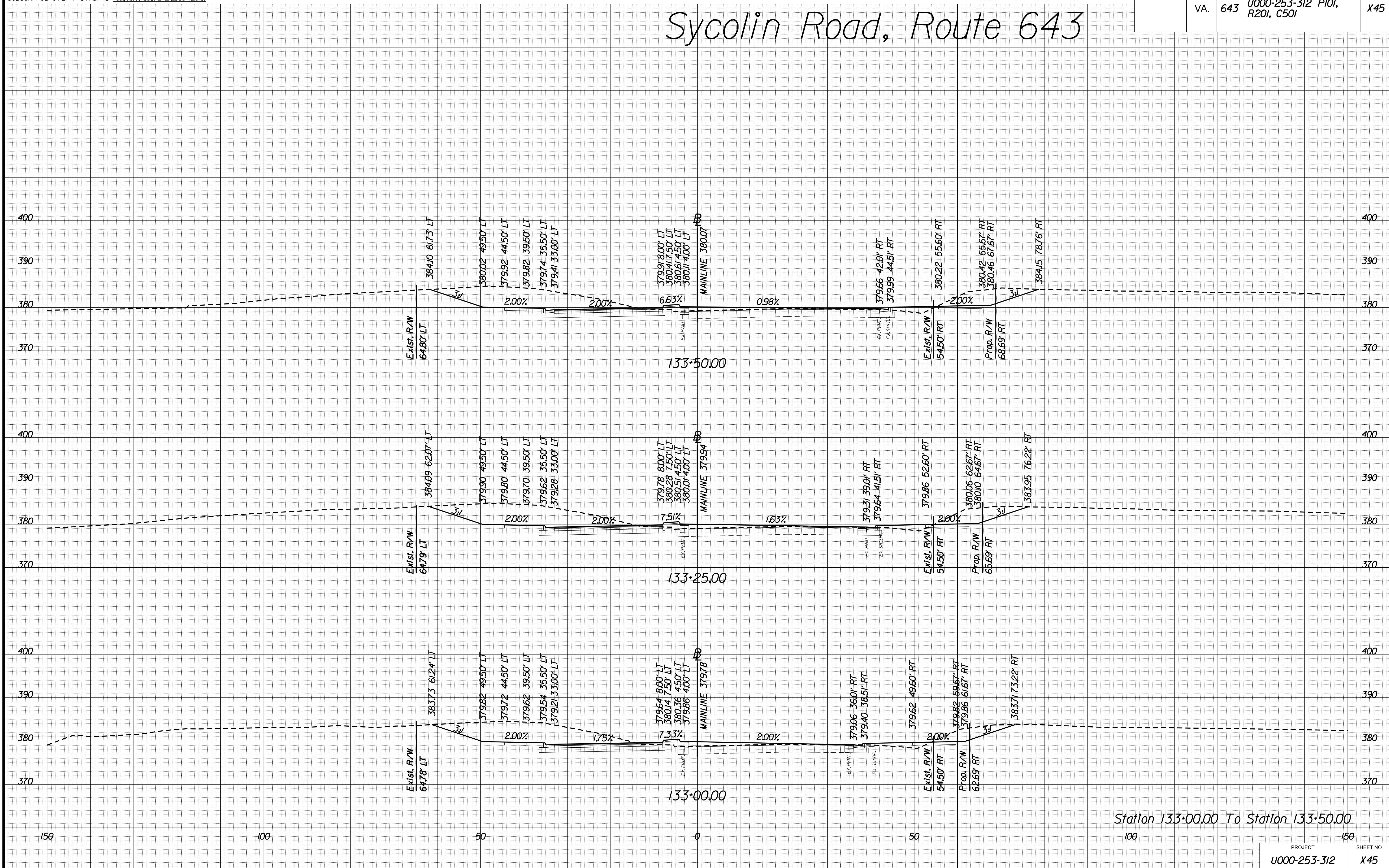
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X45

Sycolin Road, Route 643



Station 133+00.00 To Station 133+50.00

PROJECT	SHEET NO.
U000-253-312	X45

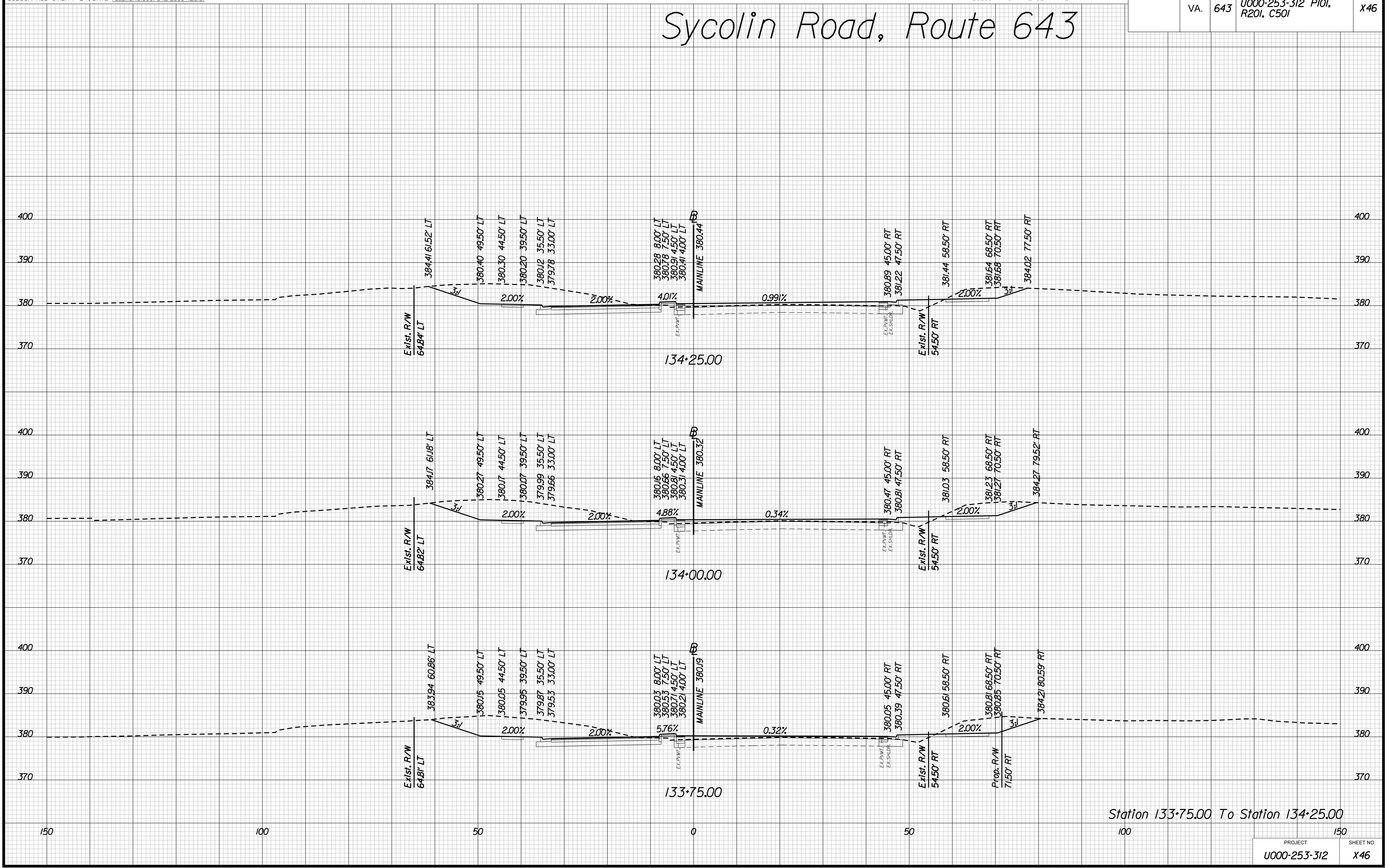
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	643		U000-253-312 P101, R201, C501	X46

Sycolin Road, Route 643



Station 133+75.00 To Station 134+25.00

PROJECT	SHEET NO.
U000-253-312	X46

100% PLANS

Office Locations
 10000 Lakeside Blvd
 Suite 1000
 Fairfax, VA 22030
 703-261-1100
 10000 Lakeside Blvd
 Suite 1000
 Fairfax, VA 22030
 703-261-1100

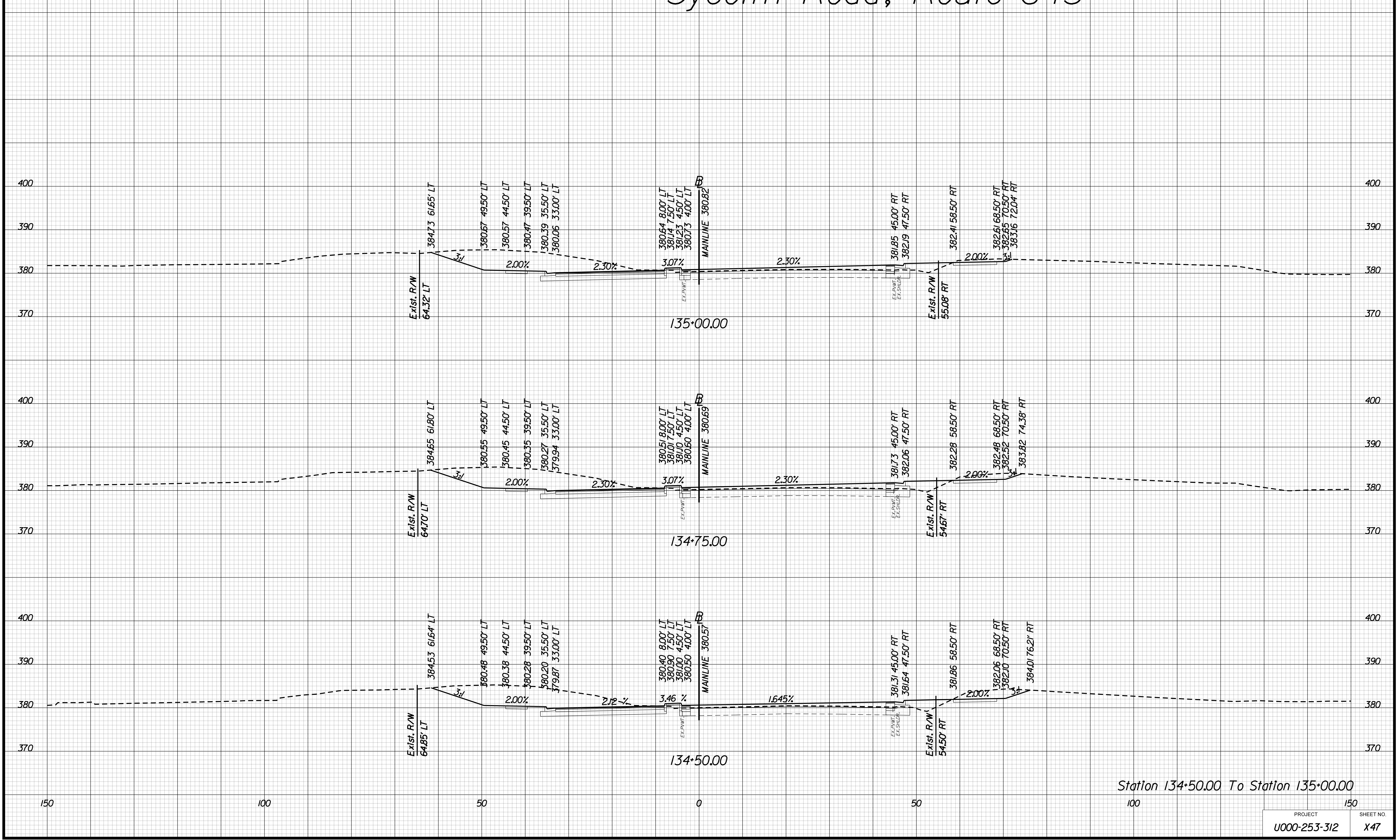
PROJECT MANAGER Anne Gelger, (703) 771-2742 (Town of Leesburg)
 SURVEYED BY, DATE Rinker Design Associates, (703) 368-7373 (2015)
 DESIGN SUPERVISED BY Mark A. Gunn, P.E., (703) 368-7373 (Rinker Design Assoc.)
 SUBSURFACE UTILITY BY, DATE AccuMark, (800) 542-2990 (2015)

CROSS SECTIONS
 SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	643	U000-253-312 P101, R201, C501	X47

Sycolin Road, Route 643



Station 134+50.00 To Station 135+00.00

PROJECT	SHEET NO.
U000-253-312	X47

100% PLANS