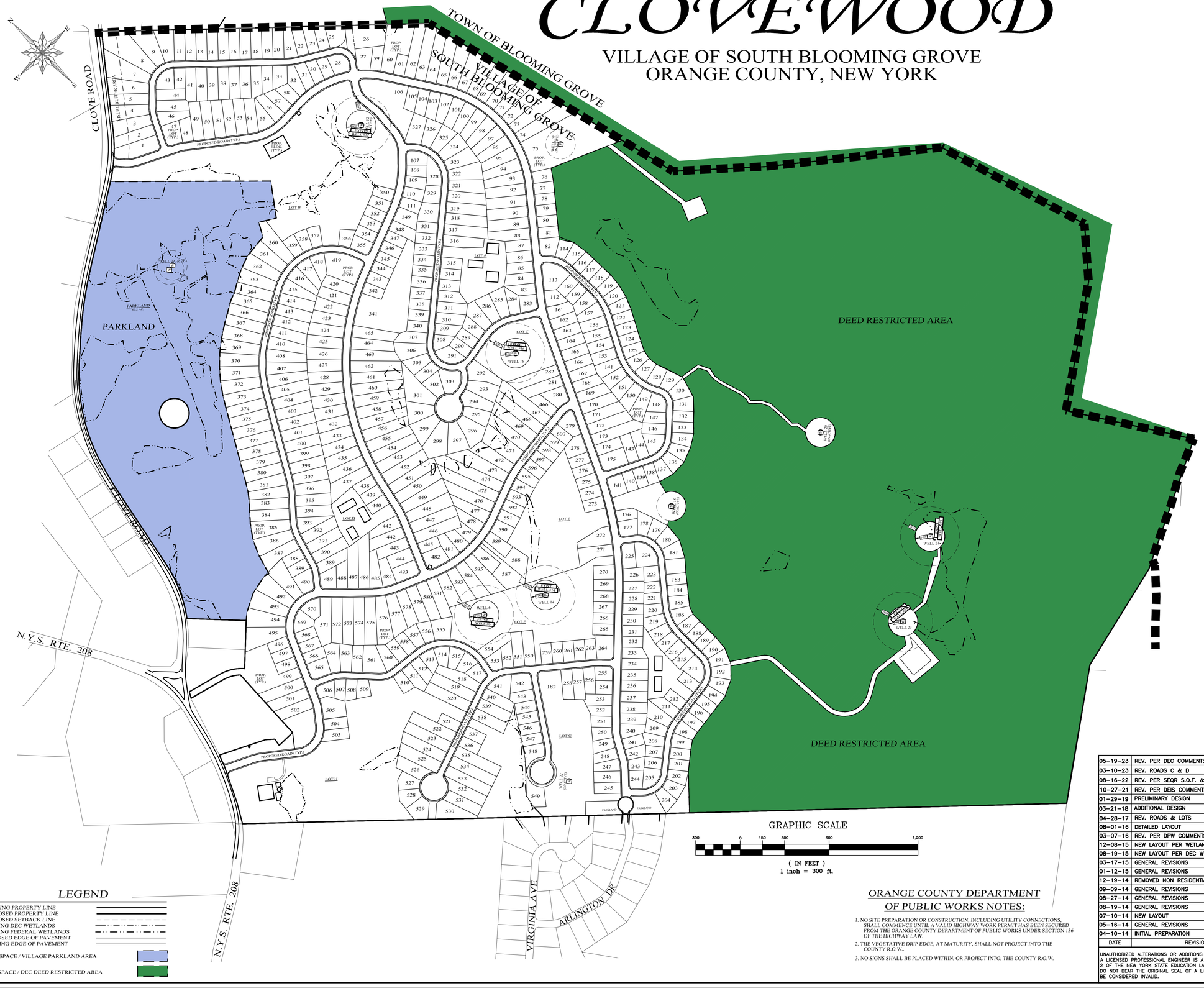
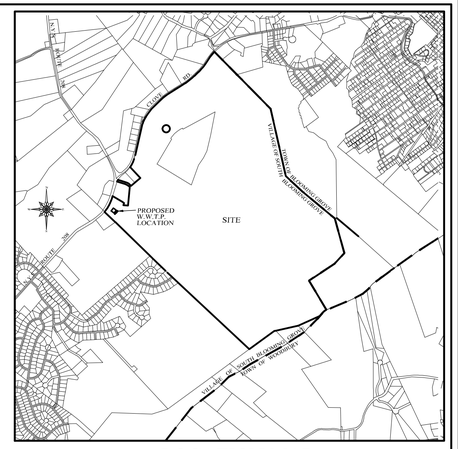
CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE
ORANGE COUNTY, NEW YORK





LOCATION MAP
SCALE : 1" = 2,000'

PROPOSED BULK REQUIREMENTS

	MINIMUM
LOT AREA (S.F.)	10,000
FRONTAGE (FT.)	60*
FRONT YARD (FT.)	33**
REAR YARD (FT.)	40
SIDE YARD (FT.)	15
	MAXIMUM
BUILDING COVERAGE (%)	50

*MINIMUM FRONTAGE ON CURVED LOTS SHALL BE MEASURED AT THE FRONT SETBACK LINE

**MINIMUM FRONT YARD SHALL BE 40 FEET AS MEASURED FROM THE EDGE OF PAVEMENT.

WATER / SEWAGE USE CALCULATIONS

(600 UNITS) (110 GPD / BEDROOM) (4 BEDROOM PER UNIT)= 264,000 GPD
(600) (110) (4) = 264,000 GPD

GENERAL NOTES:

1. VILLAGE OF SOUTH BLOOMING GROVE TAX MAP DESIGNATION: SEC. 208, BLK. 1, LOTS 2 & 3.
2. AREA OF PARCEL PER SURVEY BY LANC & TULLY PC: 708.17± AC.
3. TOTAL PROPOSED NUMBER OF SINGLE FAMILY LOTS: 600
4. TOTAL PROPOSED AFFORDABLE HOUSINGLOTS: 94
5. EXISTING FEATURES AND INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES.
6. LOTS TO BE SREVED BY MUNICIPAL WATER AND SEWER.
7. ALL NEW UTILITIES SHALL BE INSTALLED UNDER GROUND.
8. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER) SHALL NOT BE CHANGED.
9. THE APPROVED PLANS MUST BE FILED WITH THE ORANGE COUNTY CLERK'S OFFICE PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE LAST APPROVAL OF THE FINAL PLANS.
9. NO LOT IS TO BE FURTHER SUBDIVIDED WITHOUT ORANGE COUNTY DEPT OF HEALTH REVIEW AND APPROVAL.
10. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPT OF HEALTH BASED UPON DEVELOPMENT FACTS AND THE REALITY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
11. DUE TO POTENTIAL HABITAT FOR THE INDIANA BAT, TREE CUTTING SHALL BE LIMITED TO NOV 1ST THROUGH MARCH 31ST.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- OPEN SPACE / VILLAGE PARKLAND AREA
- OPEN SPACE / DEC DEED RESTRICTED AREA

ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS NOTES:

1. NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.
2. THE VEGETATIVE DRIP EDGE, AT MATURITY, SHALL NOT PROJECT INTO THE COUNTY R.O.W..
3. NO SIGNS SHALL BE PLACED WITHIN, OR PROJECT INTO, THE COUNTY R.O.W.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
03-10-23	REV. ROADS C & D
08-16-22	REV. PER SEQR S.O.F. & NYS DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-21-18	ADDITIONAL DESIGN
04-28-17	REV. ROADS & LOTS
08-01-16	DETAILED LAYOUT
03-07-16	REV. PER DPW COMMENTS
12-08-15	NEW LAYOUT PER WETLAND BUFFER & WELLS
08-19-15	NEW LAYOUT PER DEC WETLANDS
03-17-15	GENERAL REVISIONS
01-12-15	GENERAL REVISIONS
12-19-14	REMOVED NON RESIDENTIAL USES
09-09-14	GENERAL REVISIONS
08-27-14	GENERAL REVISIONS
08-19-14	GENERAL REVISIONS
07-10-14	NEW LAYOUT
05-16-14	GENERAL REVISIONS
04-10-14	INITIAL PREPARATION

CLOVEWOOD
VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK
PROJECT TITLE

COVER SHEET
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845)988-0620
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	C 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS SHOWN	



LEGEND

- EXISTING PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING STONEWALL
- EXISTING TREELINE
- EXISTING 12% OR GREATER SLOPES
- EXISTING WETLANDS

GRAPHIC SCALE

300 0 150 300 600 1200

(IN FEET)

1 inch = 300 ft.

Lands of

CLOVEWOOD

TOWN OF BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

EXISTING CONDITIONS MAP

DRAWING TITLE

DATE	REVISIONS
11-01-16	UPDATE MAP / REVISE SLOPES
04-27-16	UPDATE TOPOGRAPHY / ADD WELLS & TRAILS
08-19-15	REV. WETLANDS AREAS PER NYS DEC
03-17-15	REV. WETLANDS AREAS / ADD EXISTING WELLS
08-19-14	GENERAL REVISIONS
07-10-14	GENERAL REVISIONS
05-16-14	GENERAL REVISIONS
04-10-14	INITIAL PREPARATION

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	X 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS SHOWN	

NORTH



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- SHEET MATCH LINE

GRADING / UTILITY SHEET NUMBER (20)

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & UTILITY SHEETS KEY MAP

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
10-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	KM1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS SHOWN	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

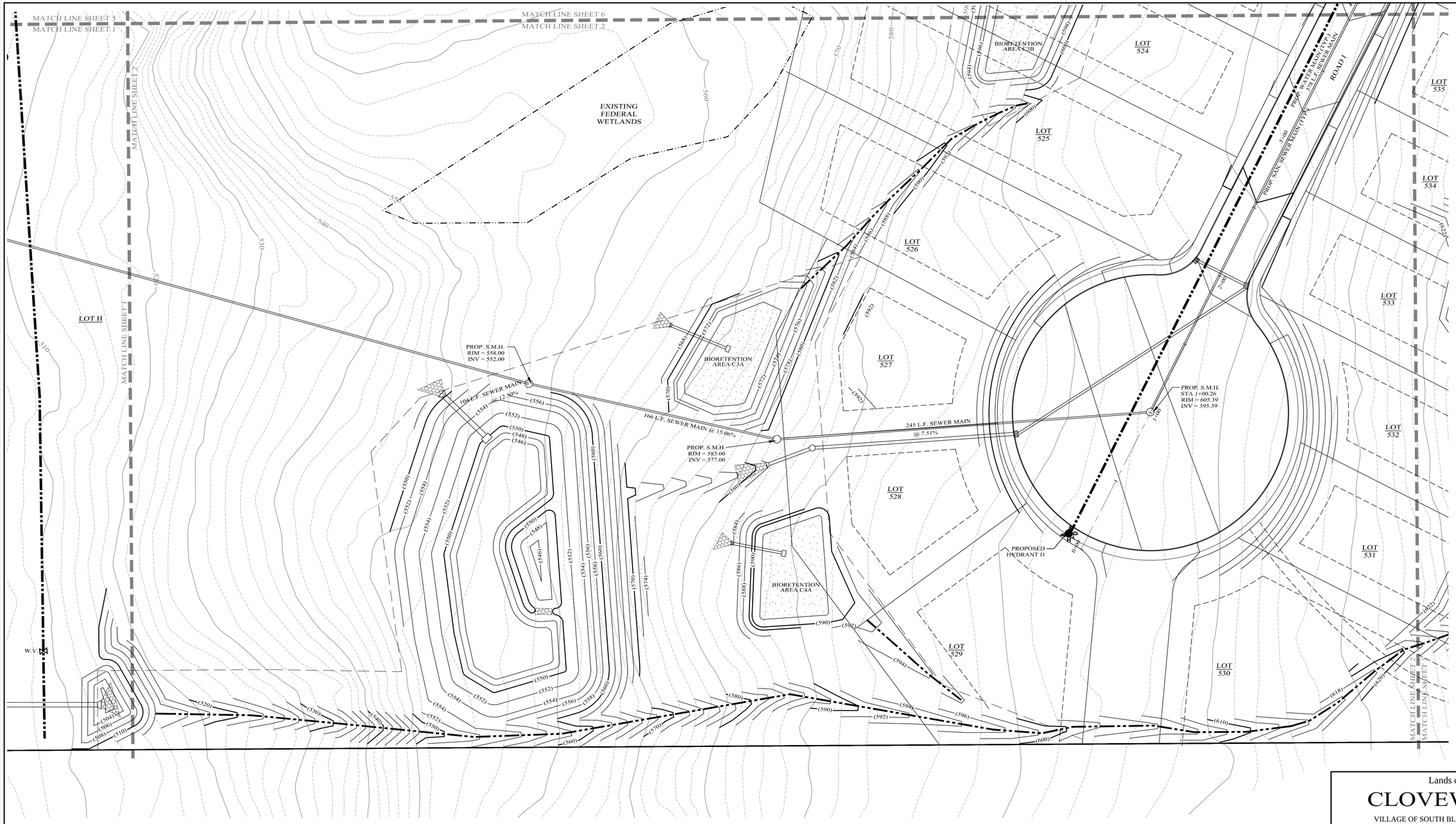
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



NORTH

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

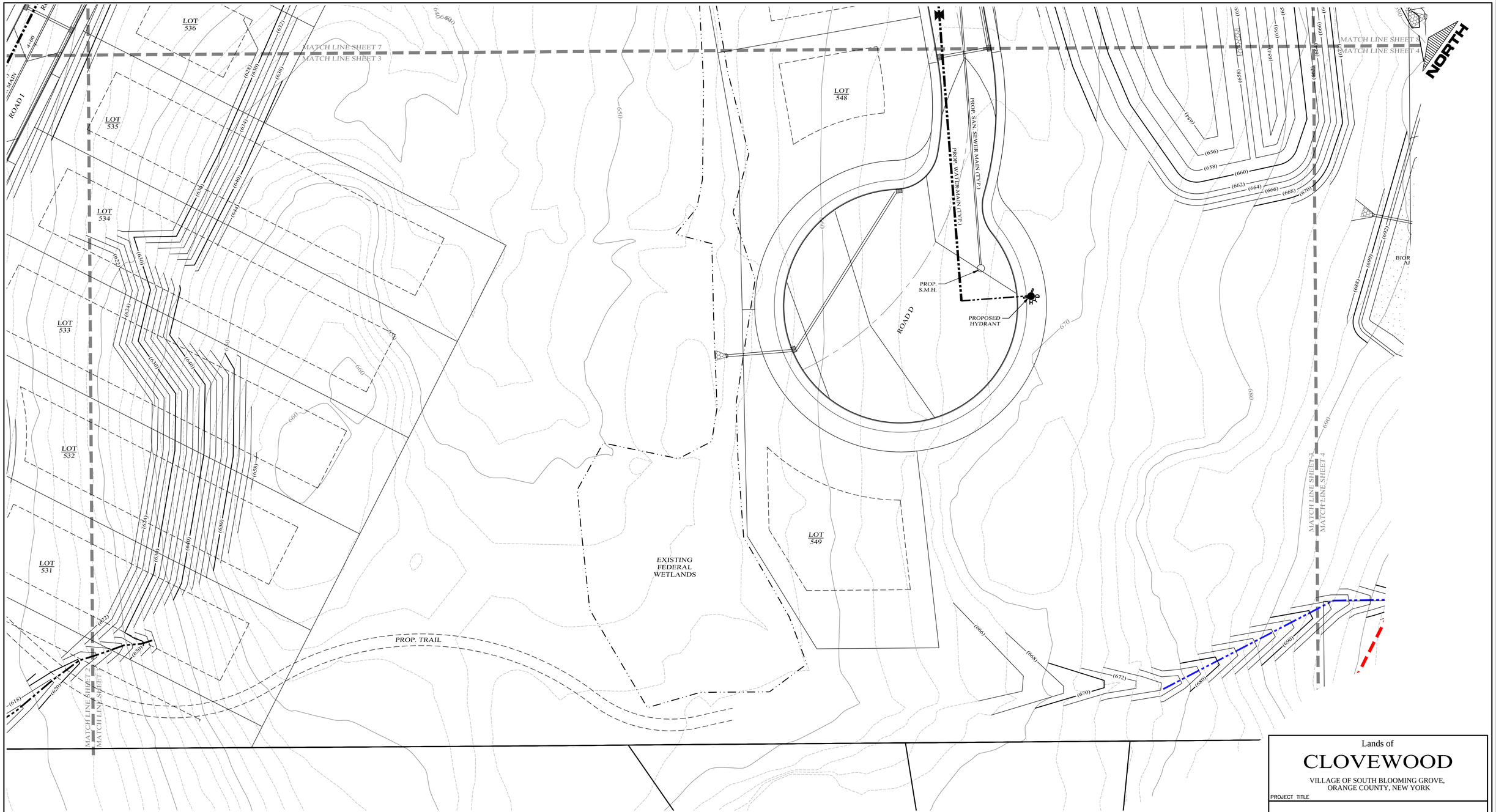
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

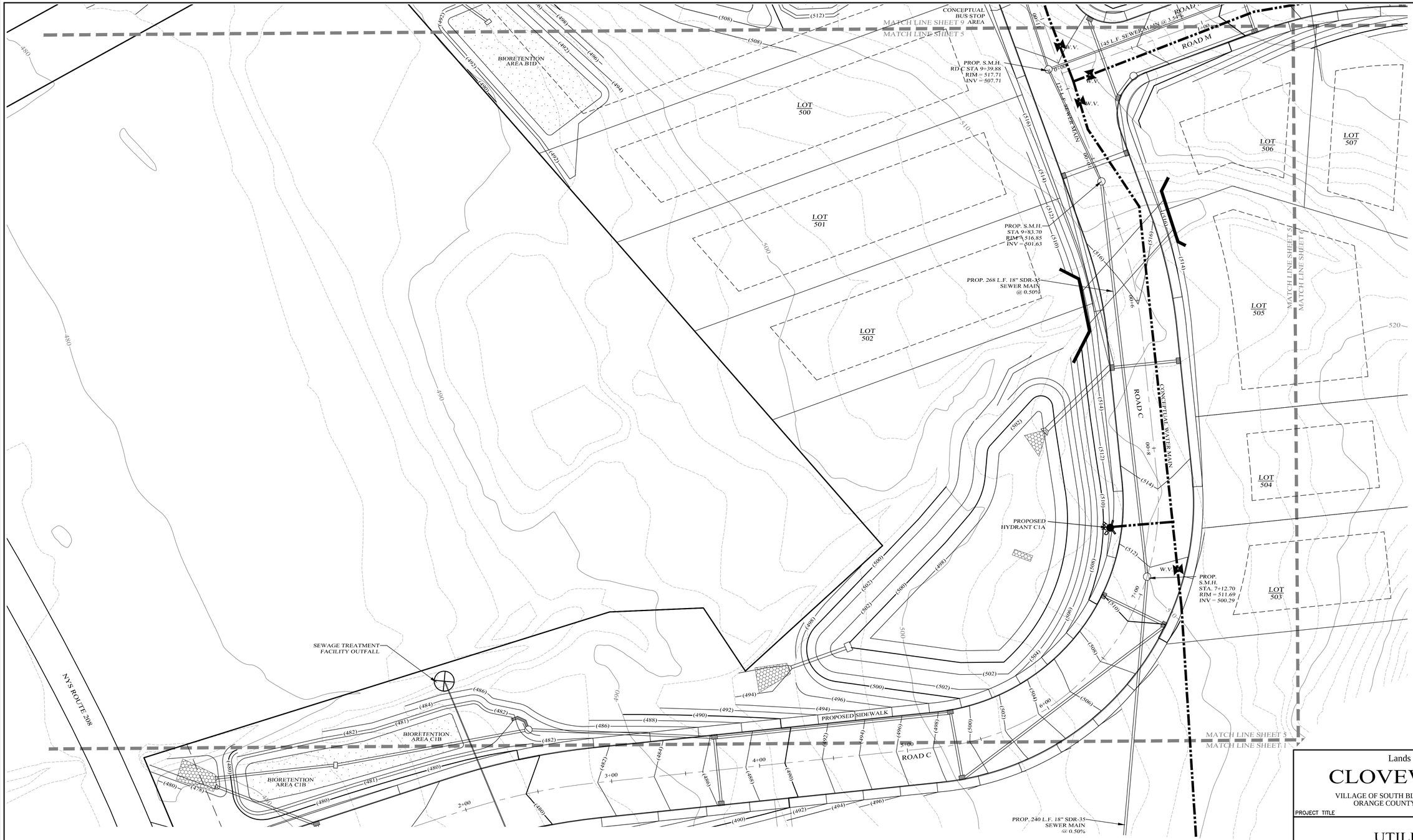
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 3
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

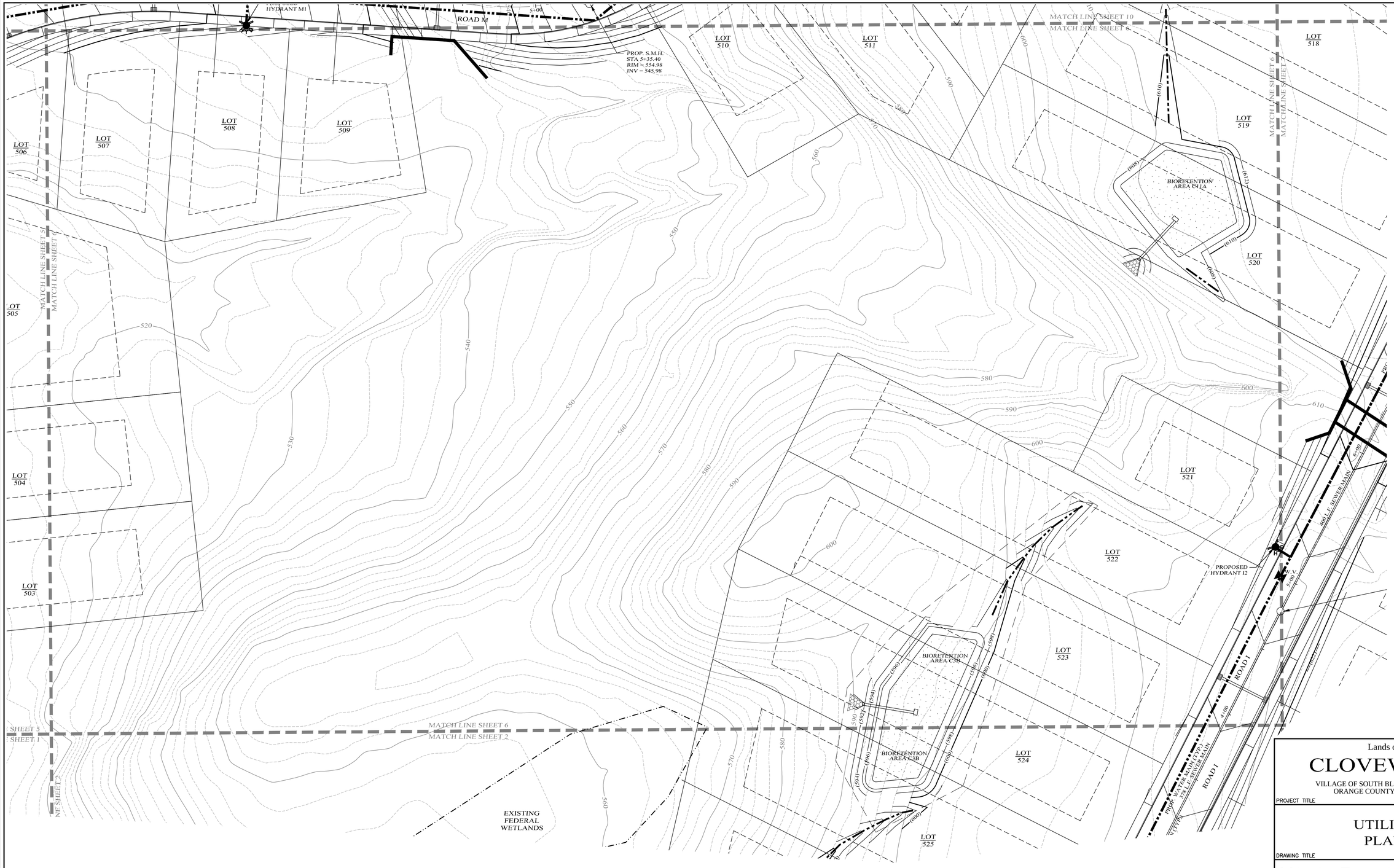
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 5
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

F.D. — F.D.
R.D. — R.D.
W — W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 6
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 7
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 8
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 9
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE

- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 10
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

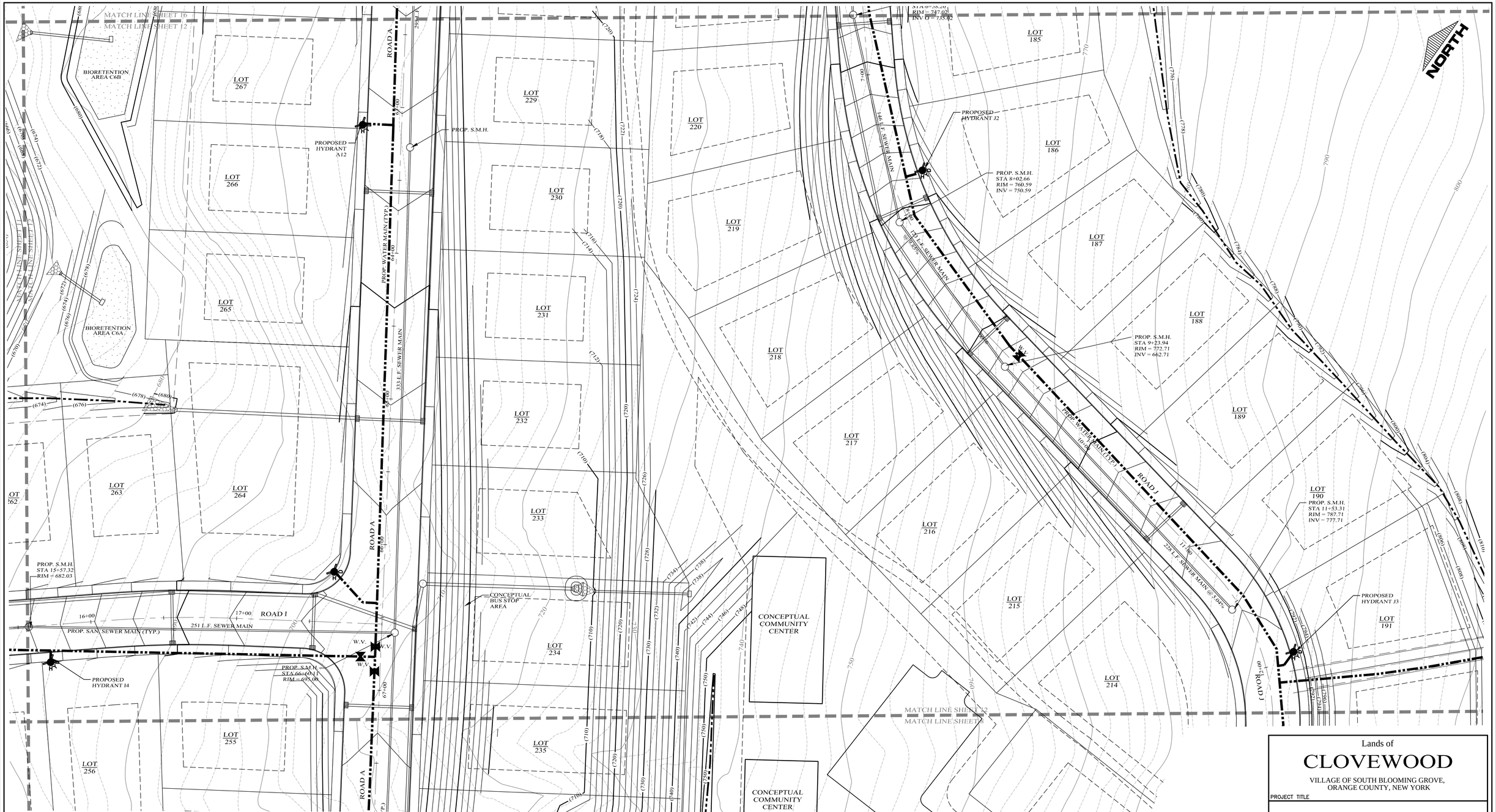
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 11
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 12
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

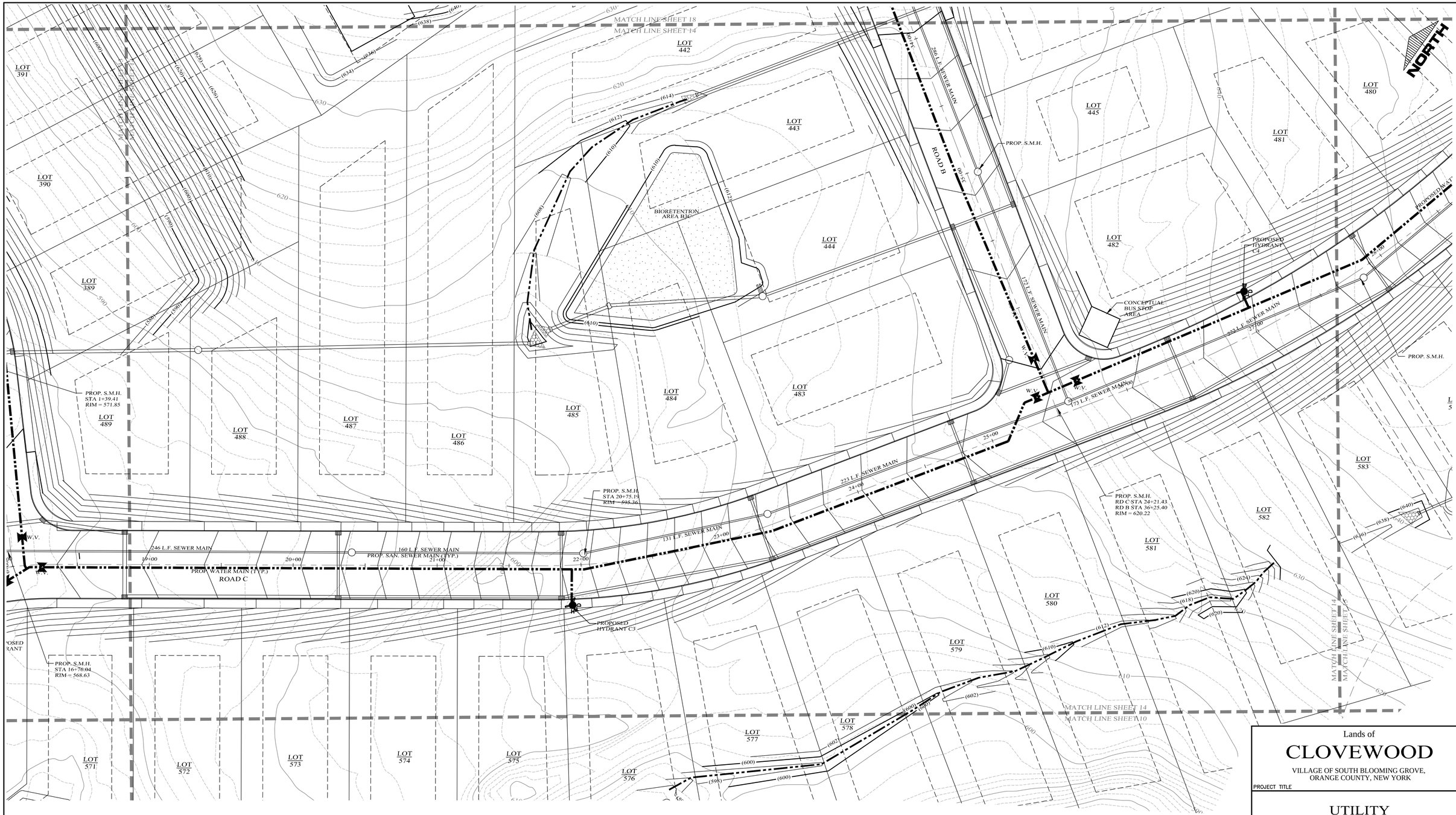
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 13
CAD # 14107 BASE	PROJECT # 14107.0	SCALE AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

F.D. = FOOTING DRAIN
R.D. = ROOF DRAIN
W = WATER SERVICE

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

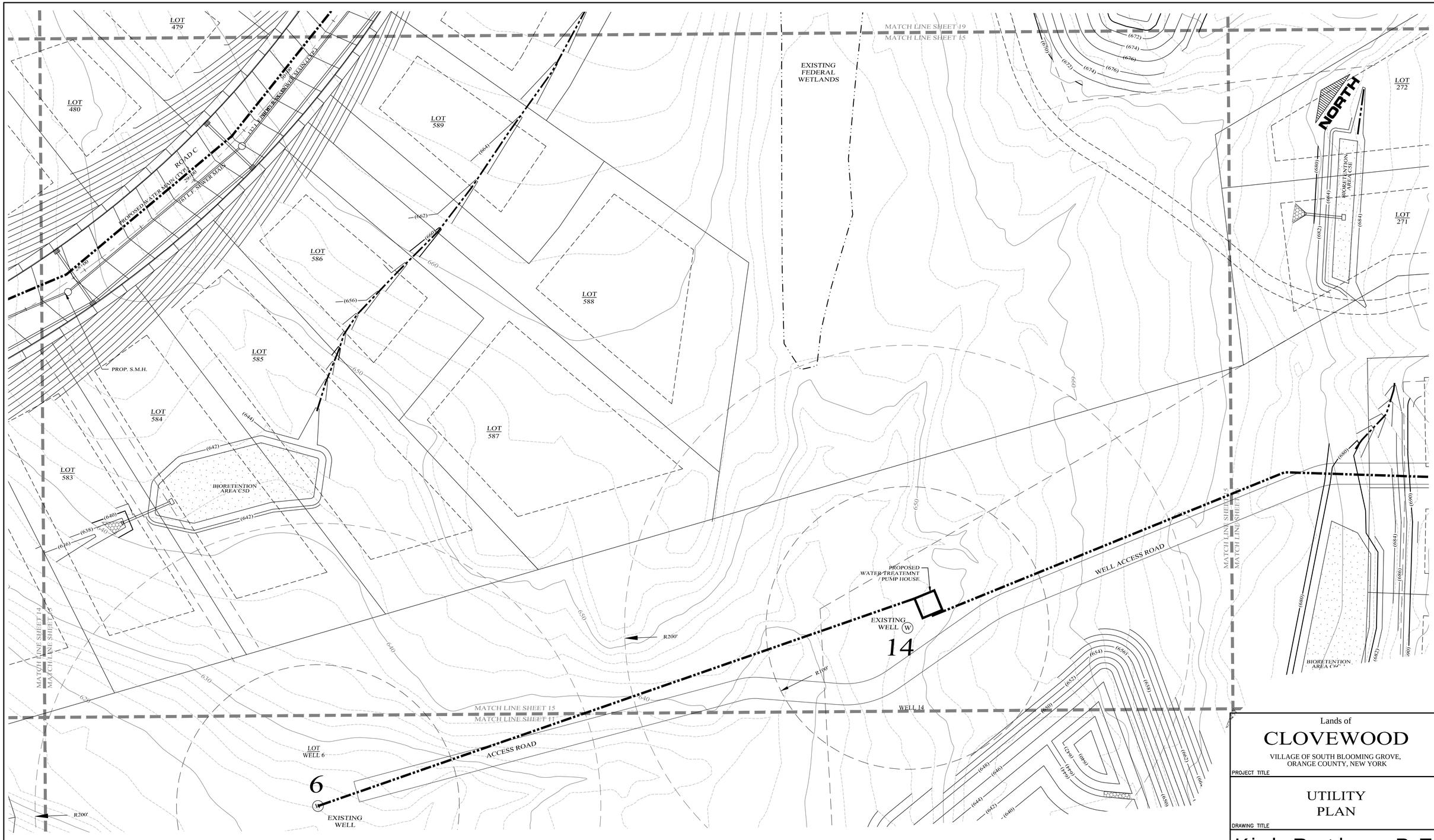
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 14
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

F.D. F.D. R.D. R.D. W W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

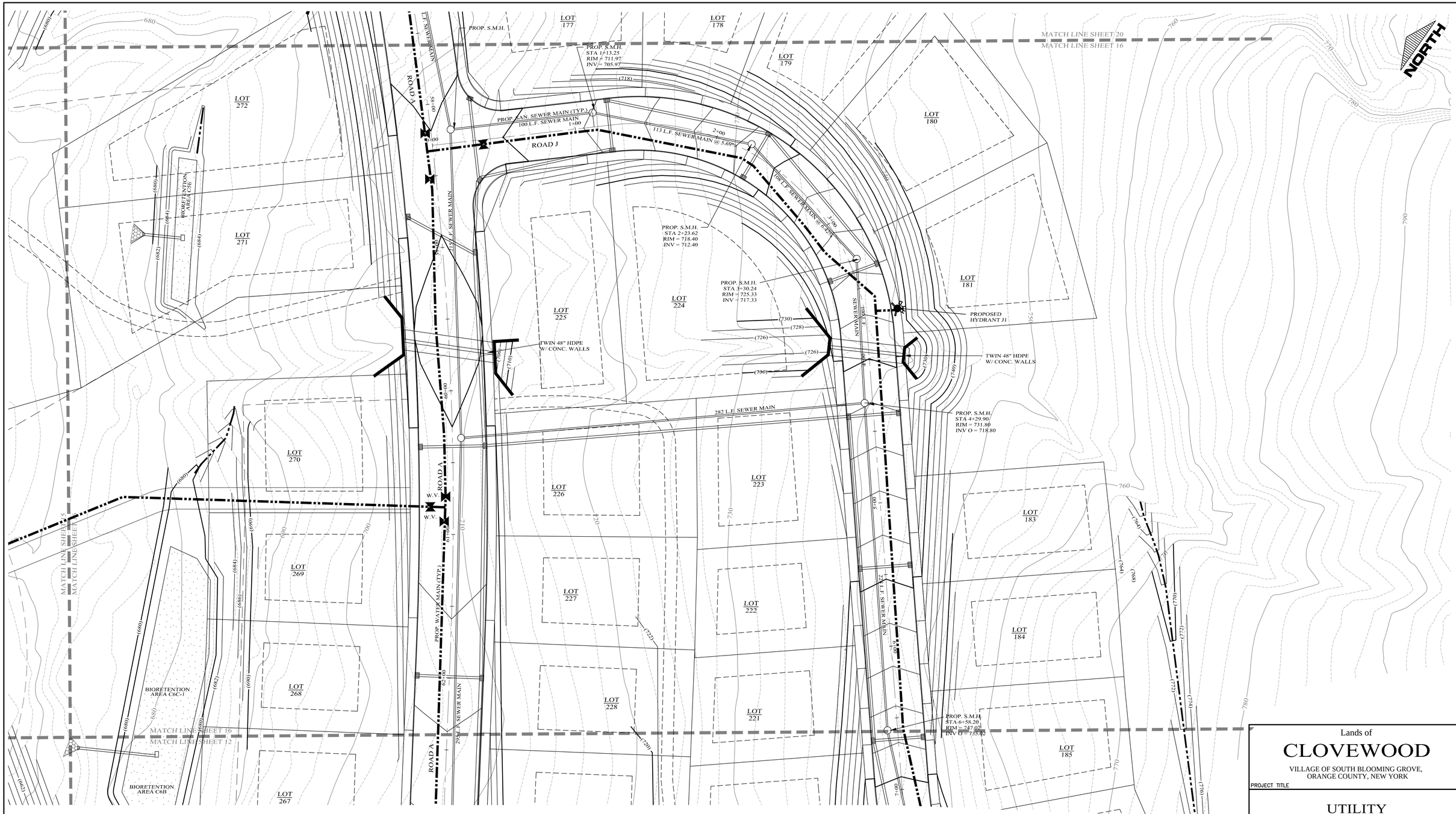
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 15
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	
PROPOSED PROPERTY LINE	
PROPOSED SETBACK LINE	
EXISTING 10' CONTOUR LINE	
EXISTING 2' CONTOUR LINE	
PROPOSED CONTOUR LINE	(600)
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
EXISTING DEC WETLANDS	
EXISTING FEDERAL WETLANDS	
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	
PROPOSED WATER MAIN	
PROPOSED SEWER MAIN	
PROPOSED SEWER MAN HOLE	
PROPOSED SEWER BLDG. LATERAL	
PROPOSED FOOTING DRAIN	F.D. F.D.
PROPOSED ROOF DRAIN	R.D. R.D.
PROPOSED DRAINAGE CULVERT	
PROPOSED DRAINAGE MAN HOLE	
PROPOSED DRAINAGE CATCH BASIN	
PROPOSED DRAINAGE FIELD INLET	
PROPOSED WATER SERVICE	W W
PROPOSED WTR SERV. VALVE BOX	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

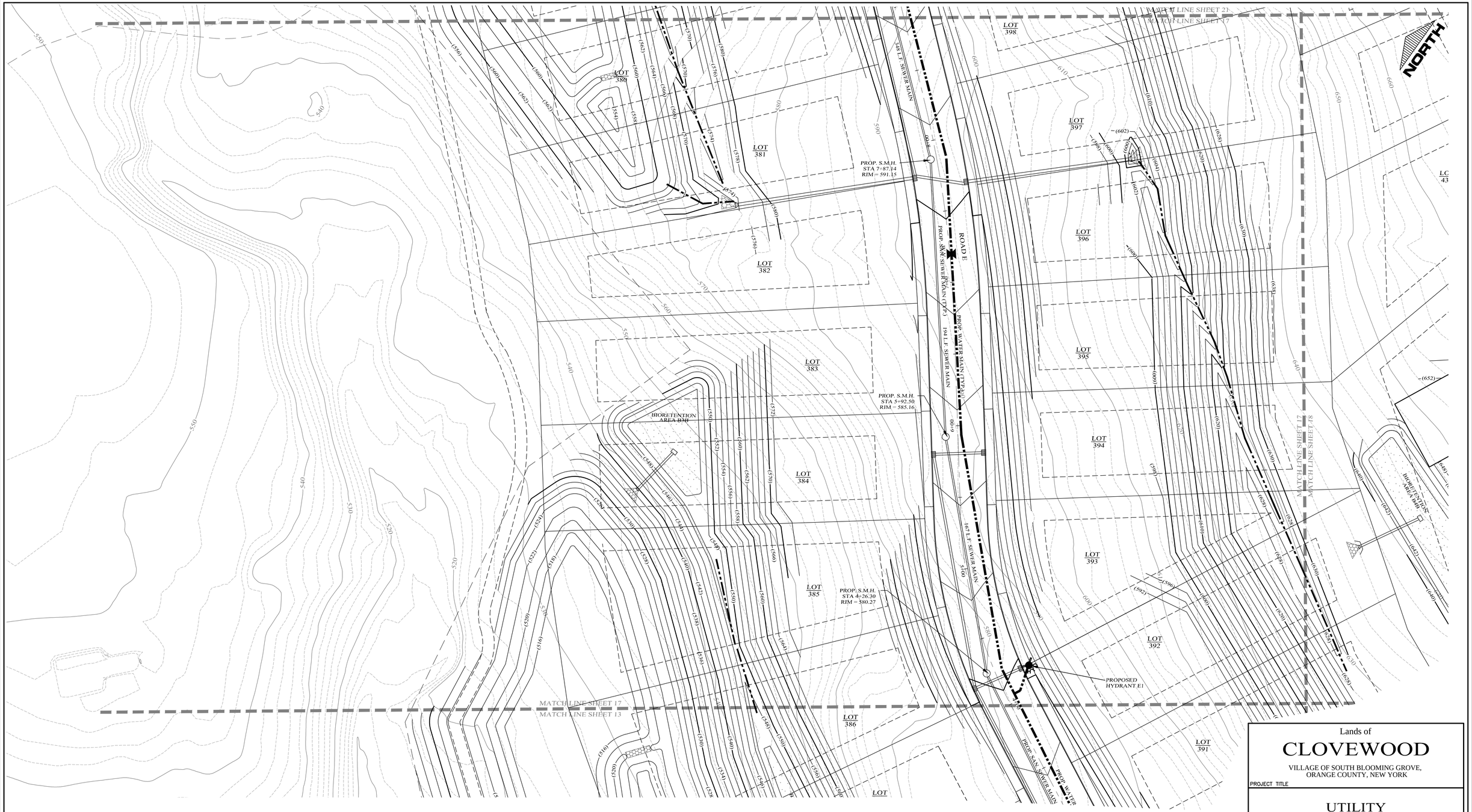
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 16
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 17
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

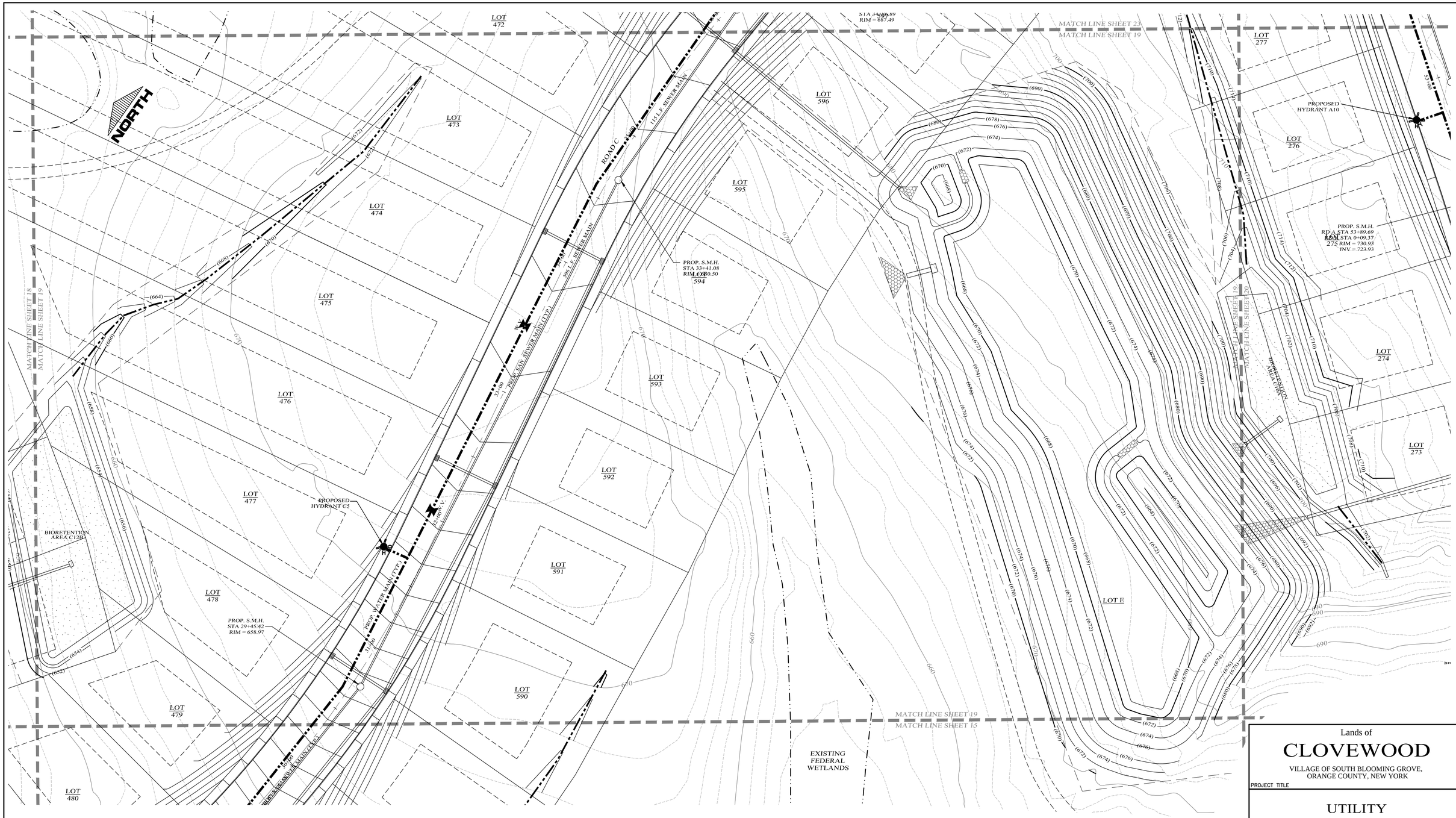
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	D.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 18
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX (W)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 19
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

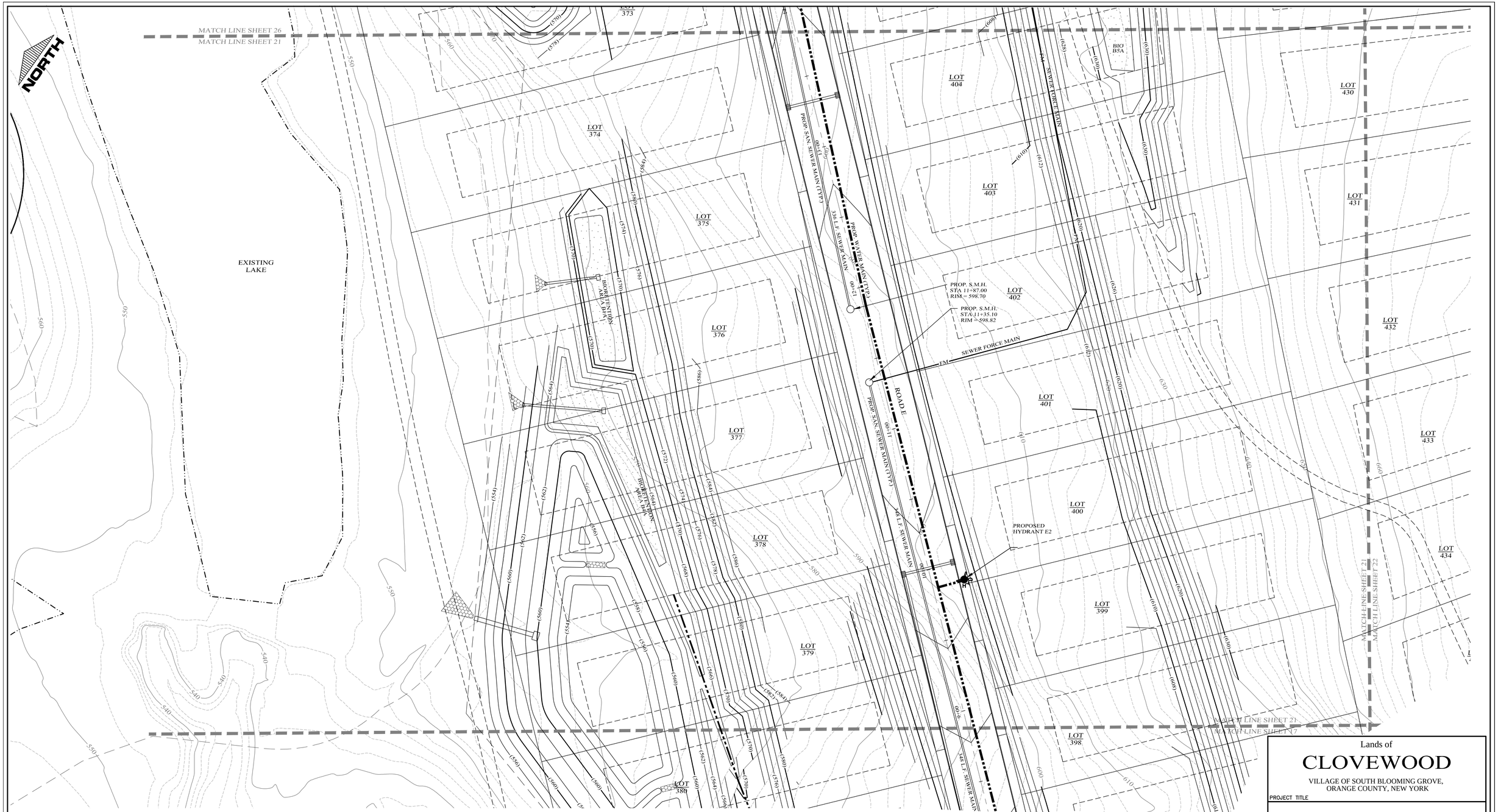
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 20
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX

F.D. R.D. F.D. R.D. W W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

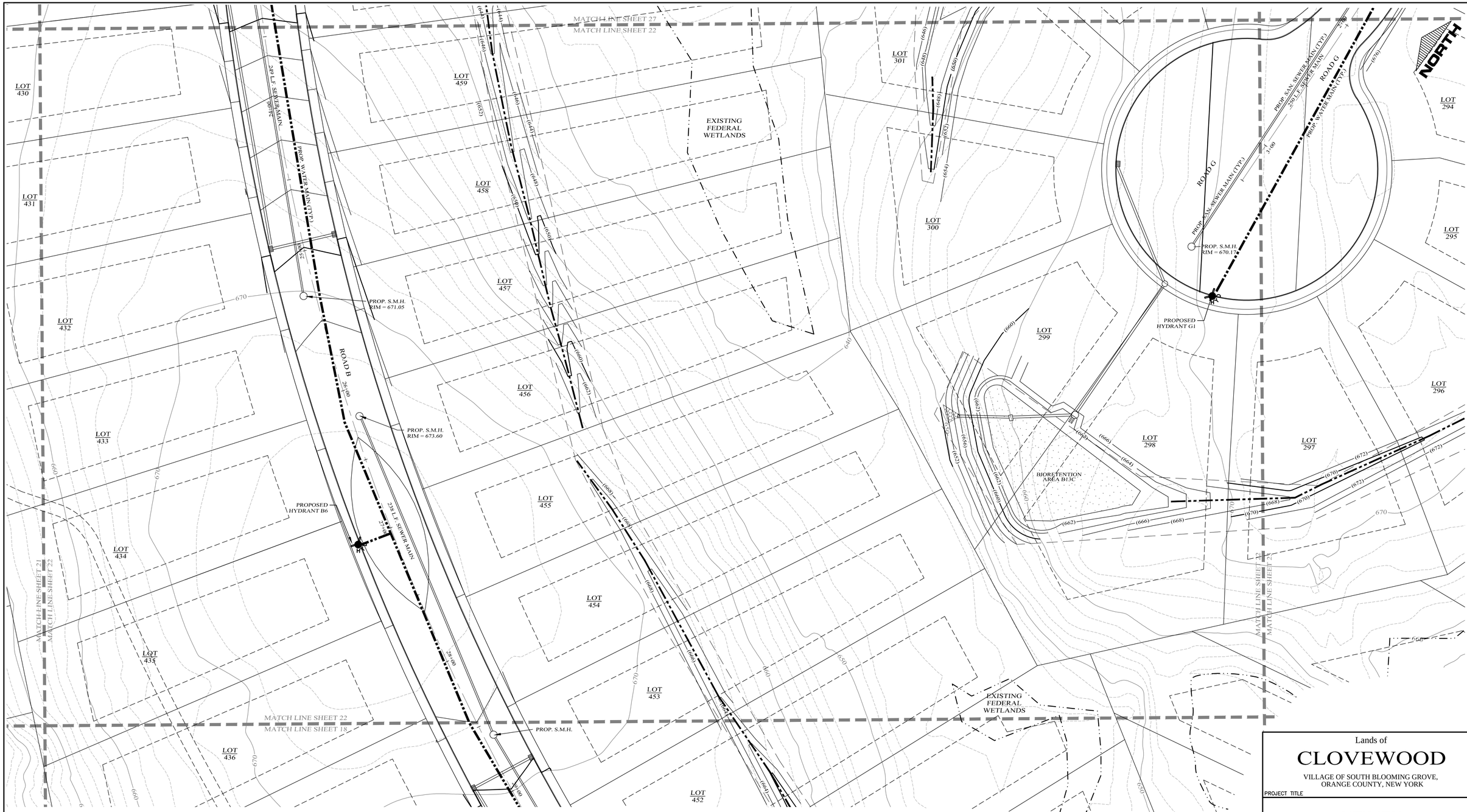
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 21
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE

- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN — F.D. — F.D.
- PROPOSED ROOF DRAIN — R.D. — R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX — W — W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

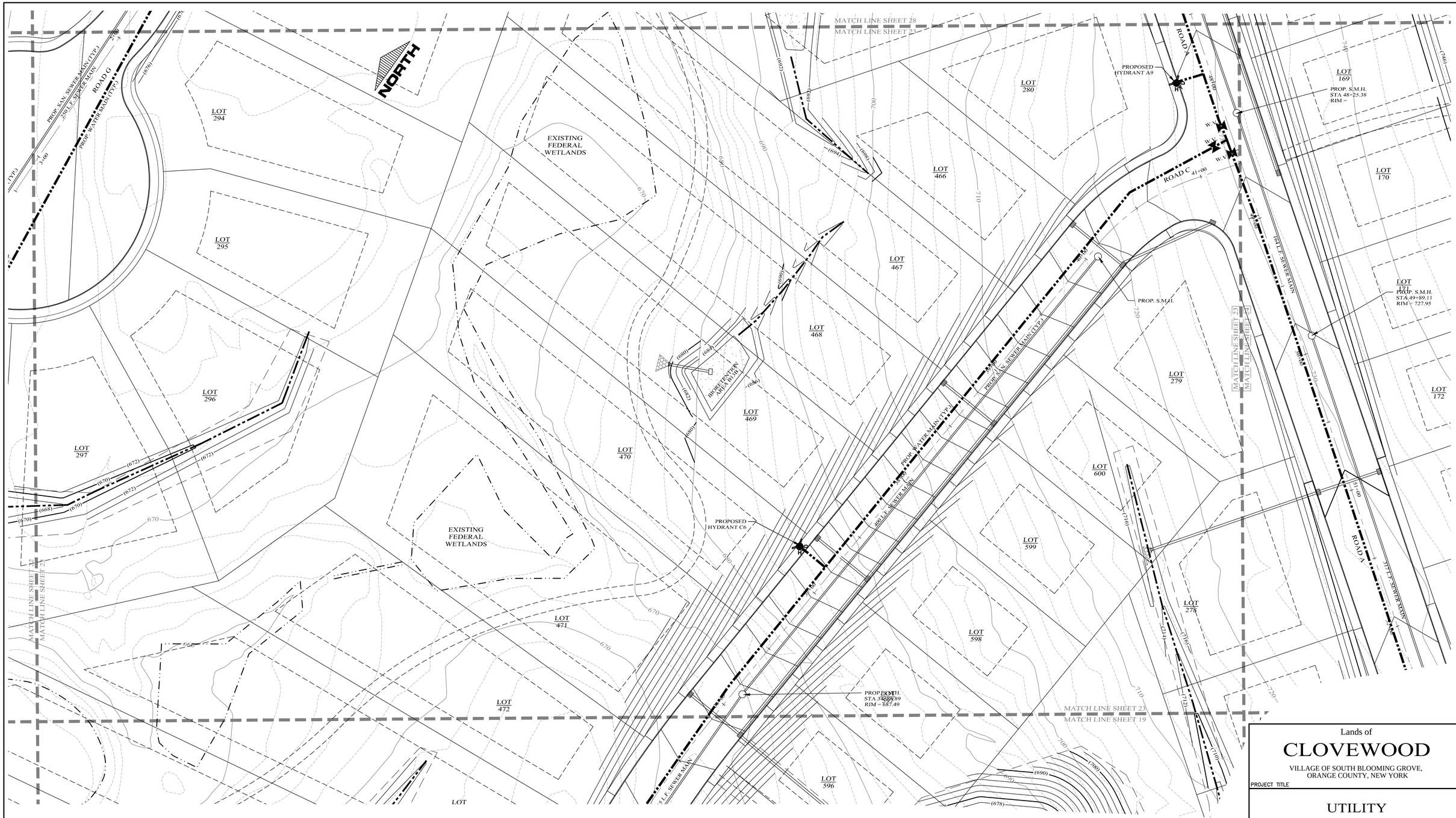
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 22
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN (F.D. / R.D.)
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX (W)
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

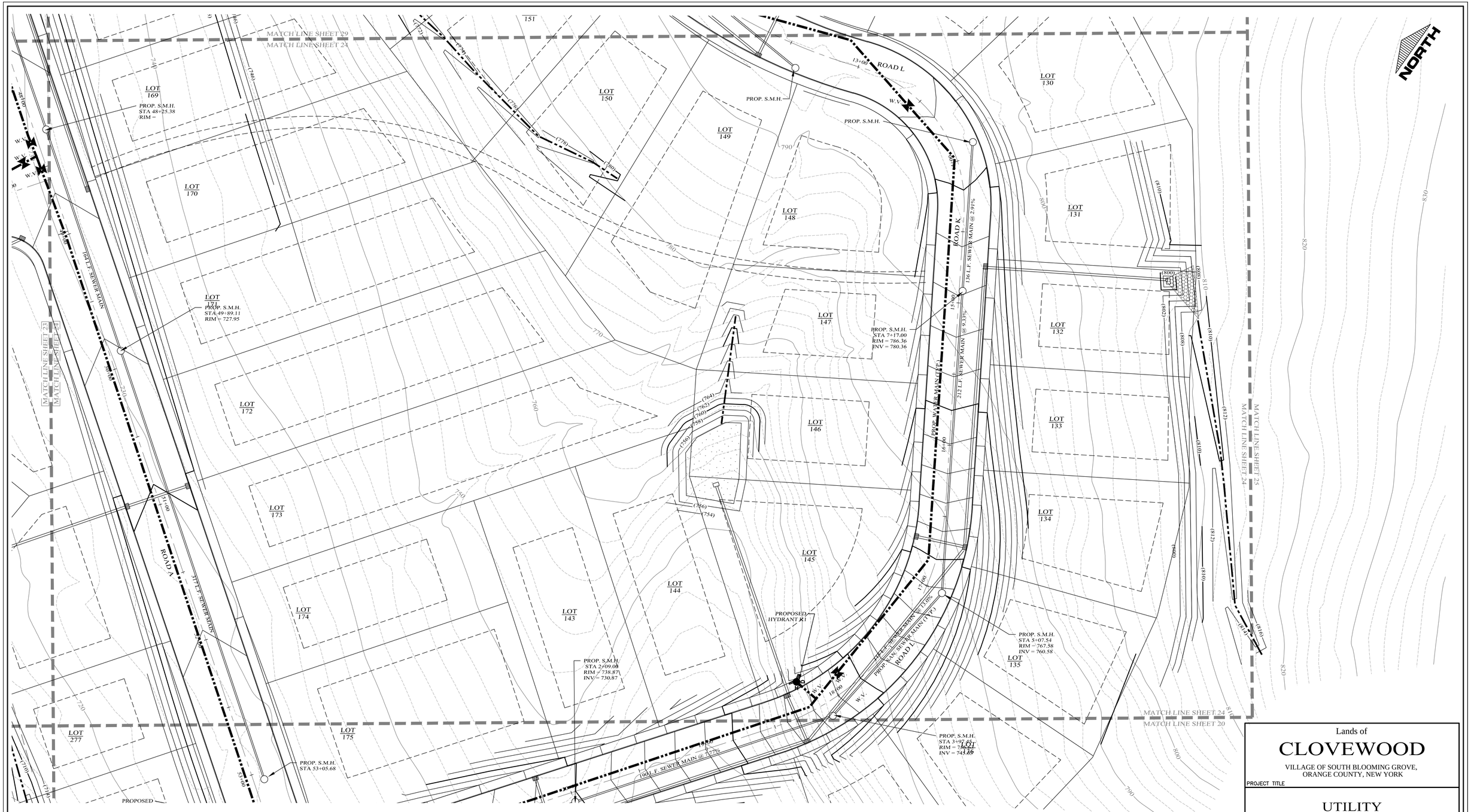
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 23
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 24
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN F.D. F.D. R.D. R.D.
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE W W
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

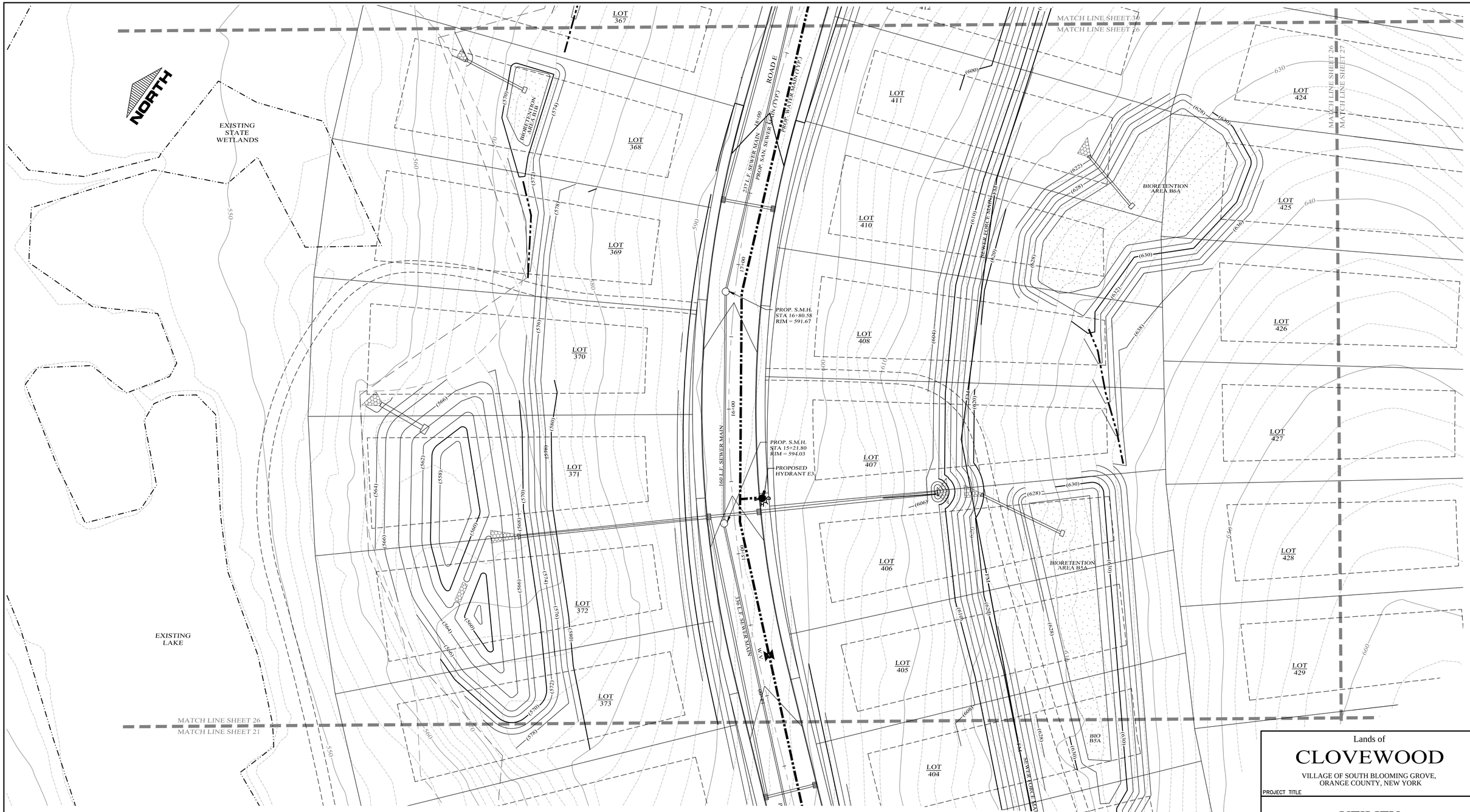
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 25
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

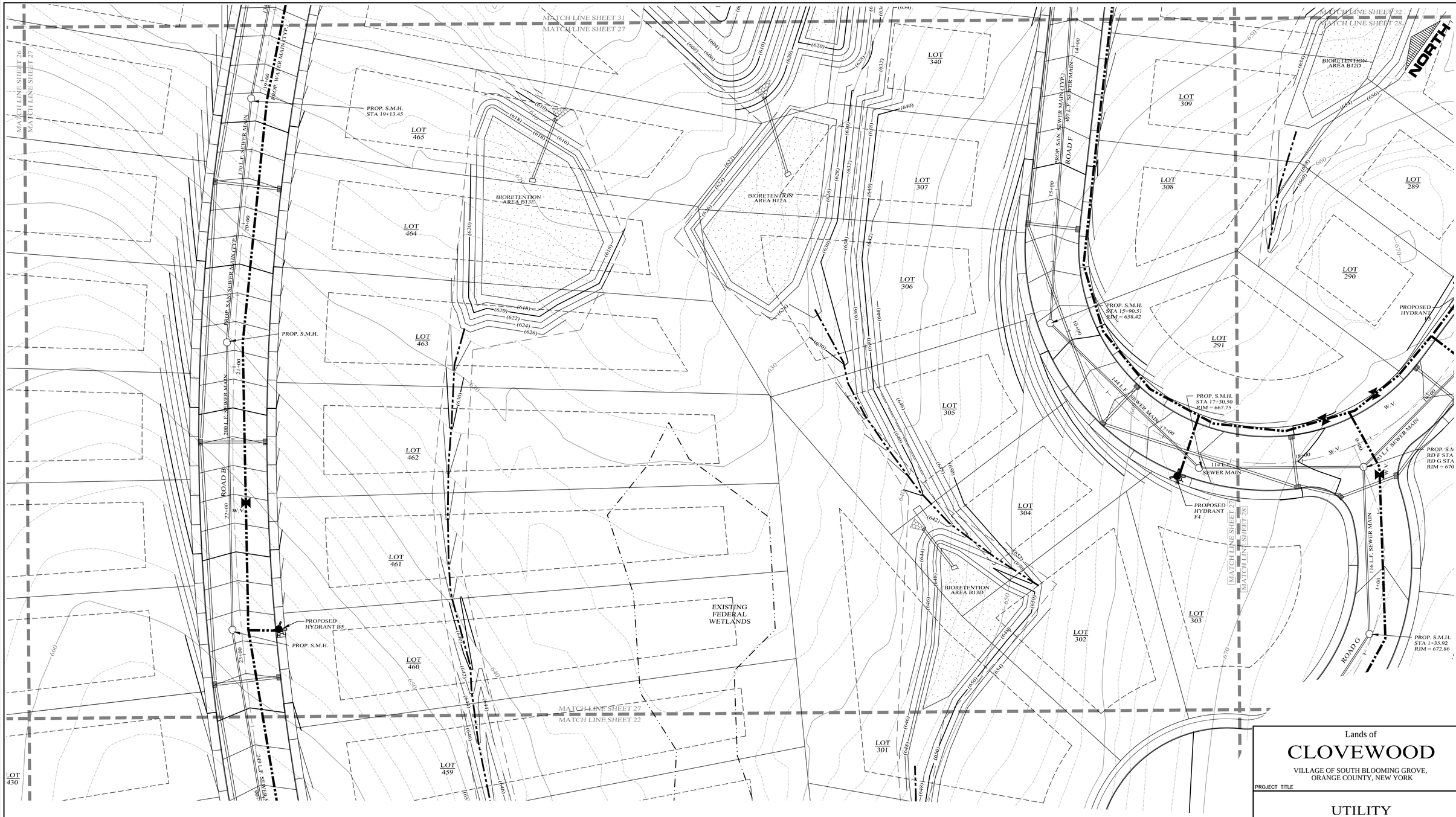
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 26
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

F.D. F.D. R.D. R.D. W W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

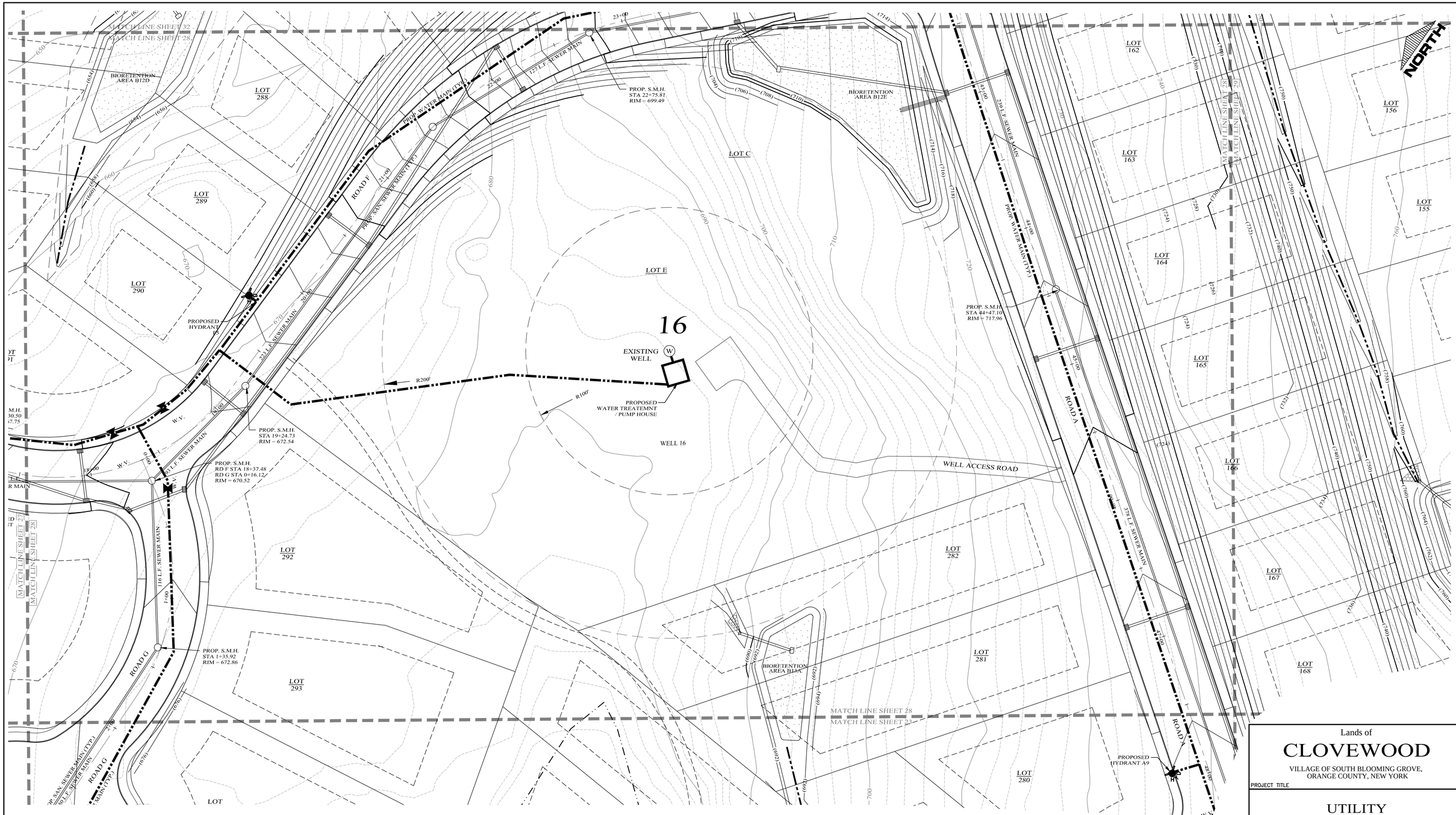
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 27
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 28
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	
PROPOSED PROPERTY LINE	
PROPOSED SETBACK LINE	
EXISTING 10' CONTOUR LINE	
EXISTING 2' CONTOUR LINE	
PROPOSED CONTOUR LINE	(600)
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
EXISTING DEC WETLANDS	
EXISTING FEDERAL WETLANDS	
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	
PROPOSED WATER MAIN	
PROPOSED SEWER MAIN	
PROPOSED SEWER MAN HOLE	
PROPOSED SEWER BLDG. LATERAL	
PROPOSED FOOTING DRAIN	F.D. F.D.
PROPOSED ROOF DRAIN	R.D. R.D.
PROPOSED DRAINAGE CULVERT	
PROPOSED DRAINAGE MAN HOLE	
PROPOSED DRAINAGE CATCH BASIN	
PROPOSED DRAINAGE FIELD INLET	
PROPOSED WATER SERVICE	W W
PROPOSED WTR SERV. VALVE BOX	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 29
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

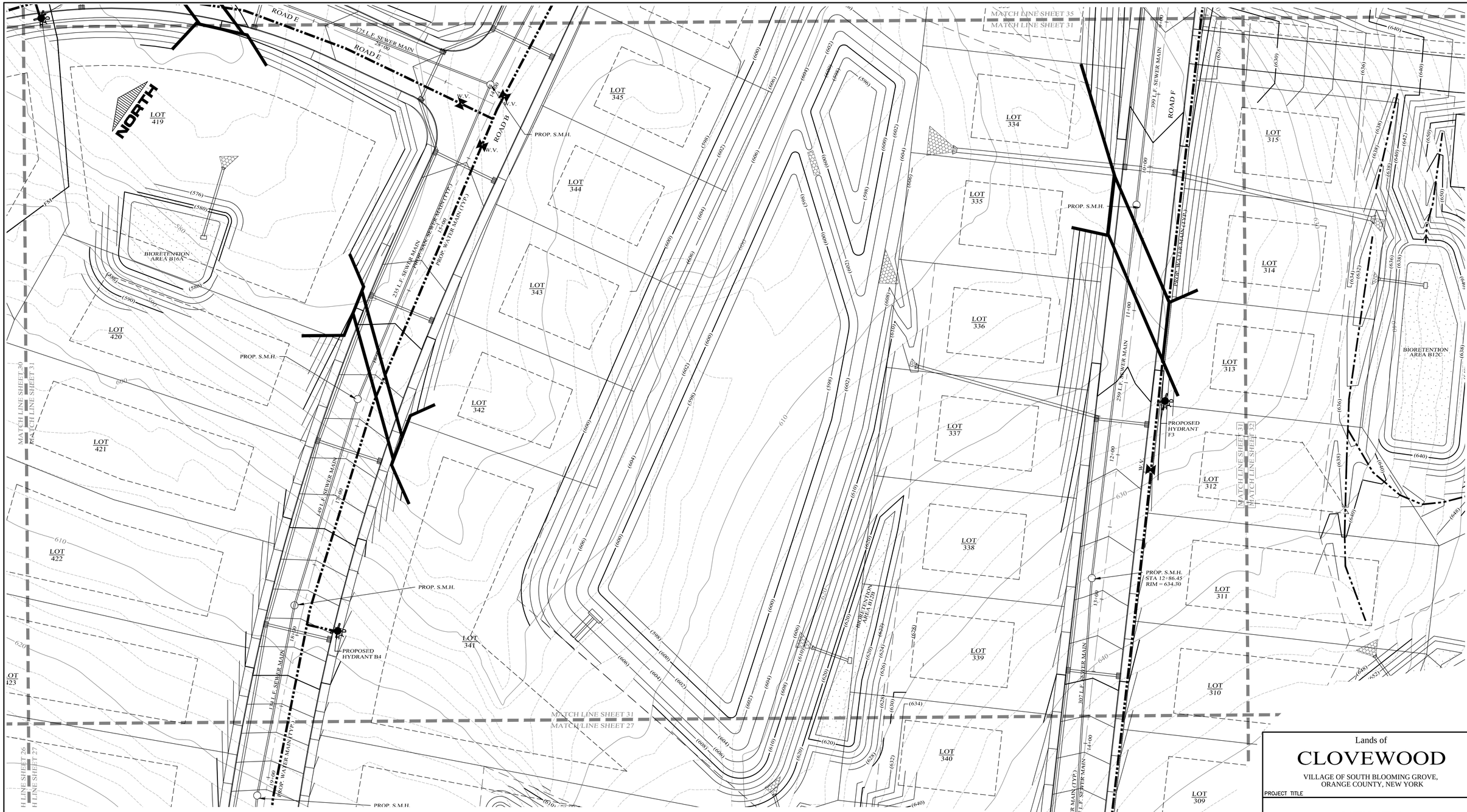
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 30
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX (W)

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 31
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

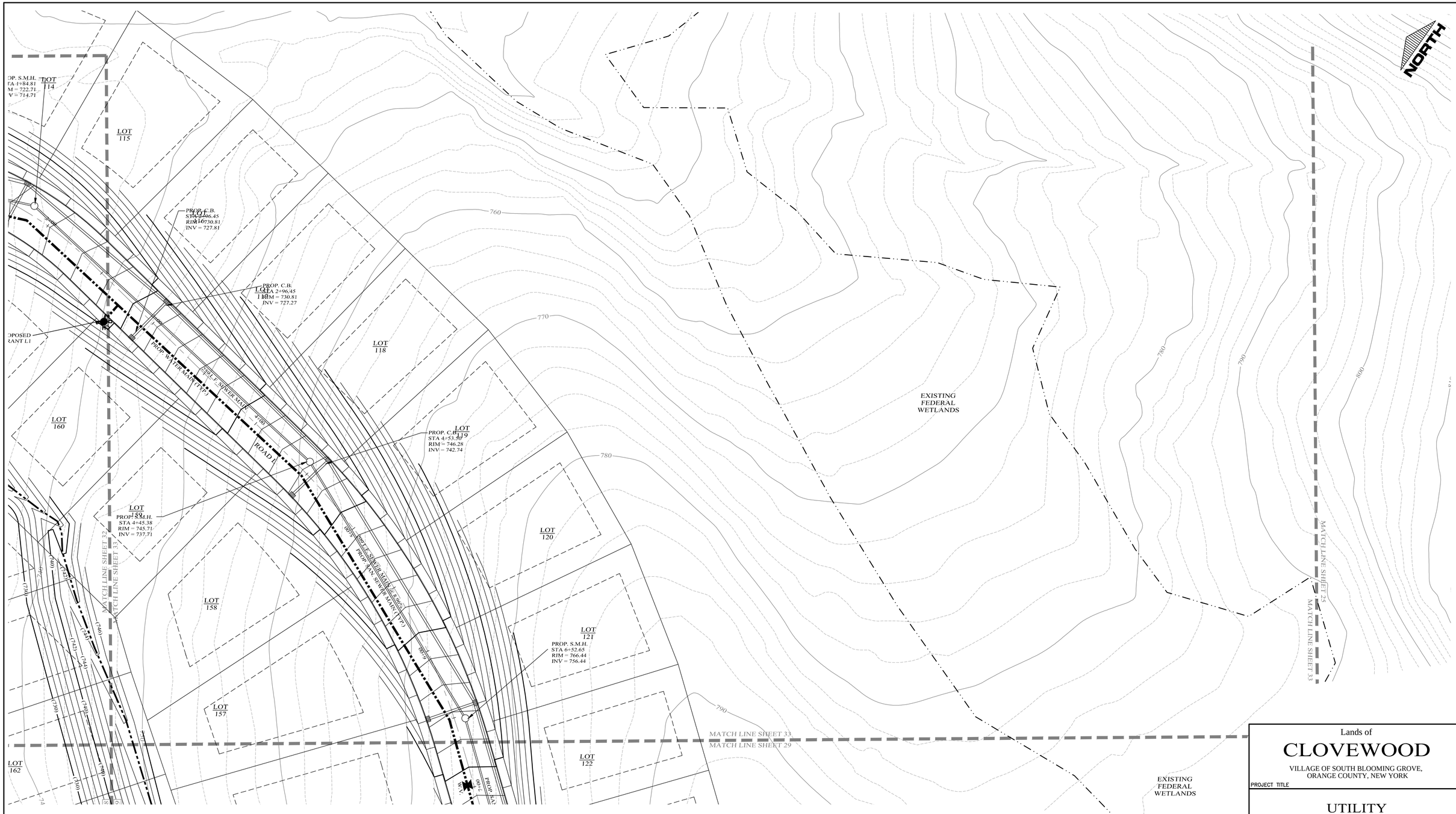
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05–19–23	REV. PER DEC COMMENTS
10–27–21	REV. PER DEIS COMMENTS
01–29–19	PRELIMINARY DESIGN
03–26–18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 32
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

F.D. = FOOTING DRAIN
R.D. = ROOF DRAIN
W = WATER SERVICE

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 33
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

F.D. = FOOTING DRAIN
R.D. = ROOF DRAIN
W = WATER

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

PRELIMINARY UTILITY PLAN

DRAWING TITLE

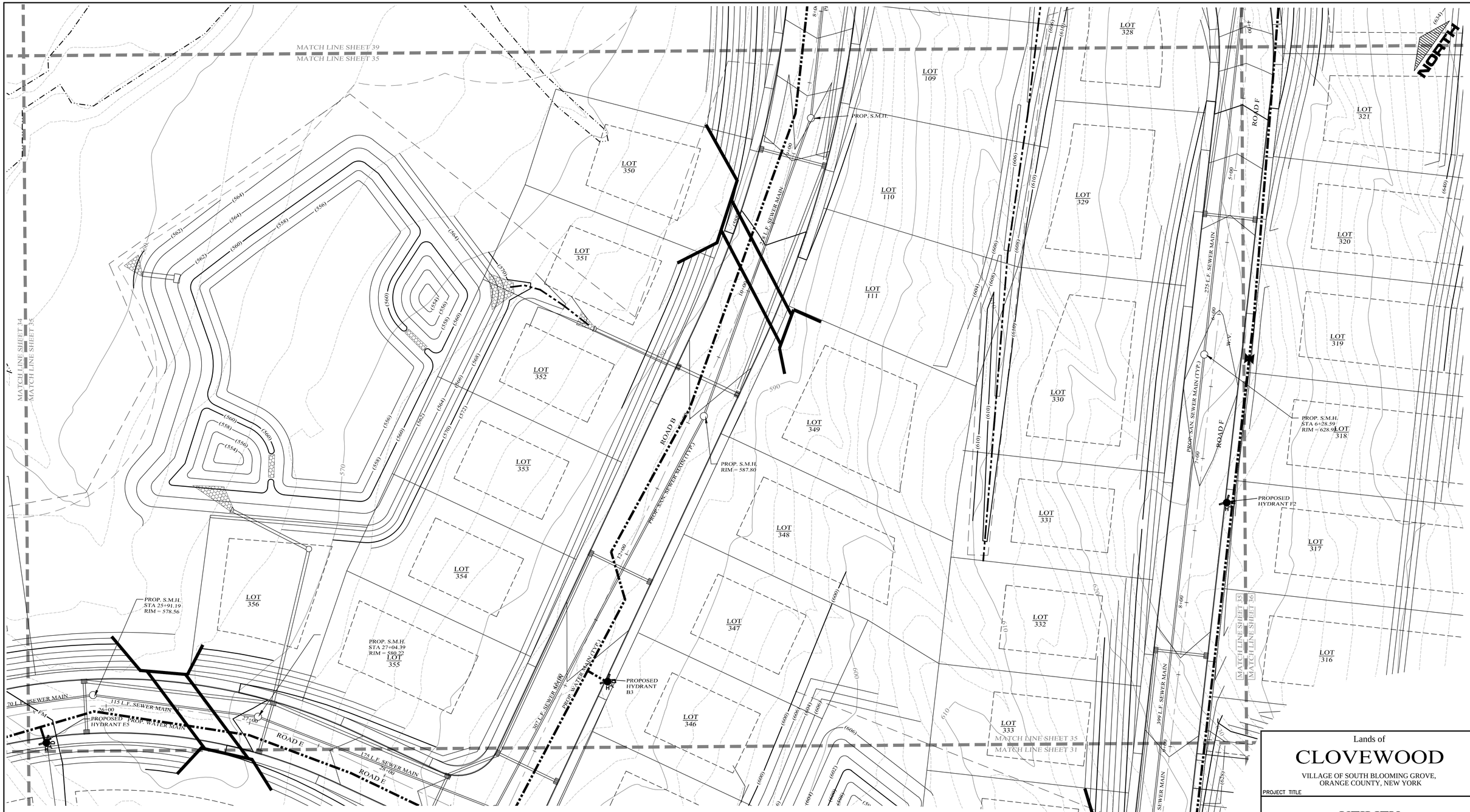
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 34
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 35
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 36
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

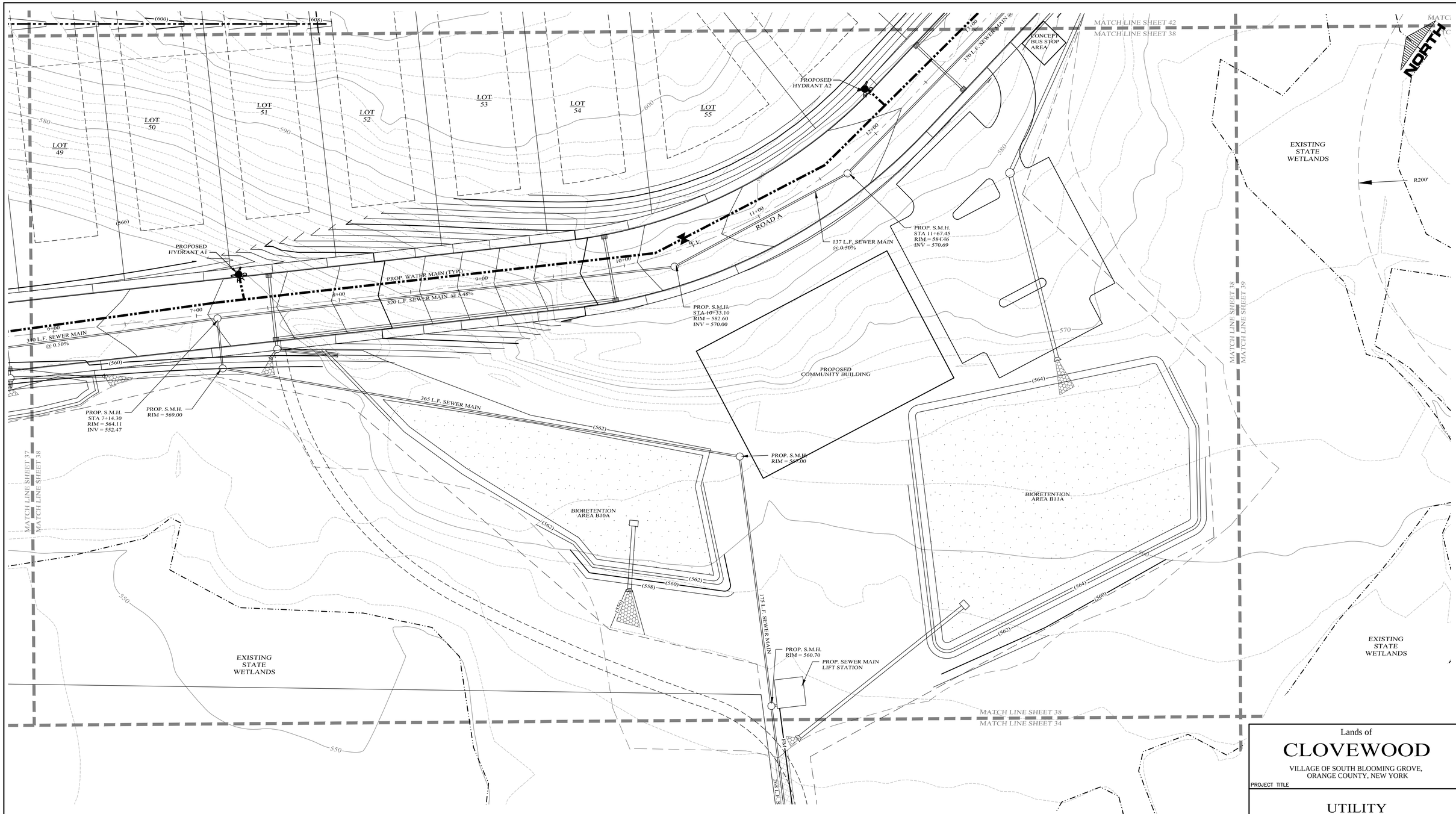
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 37
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05–19–23	REV. PER DEC COMMENTS
10–27–21	REV. PER DEIS COMMENTS
01–29–19	PRELIMINARY DESIGN
03–26–18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 38
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

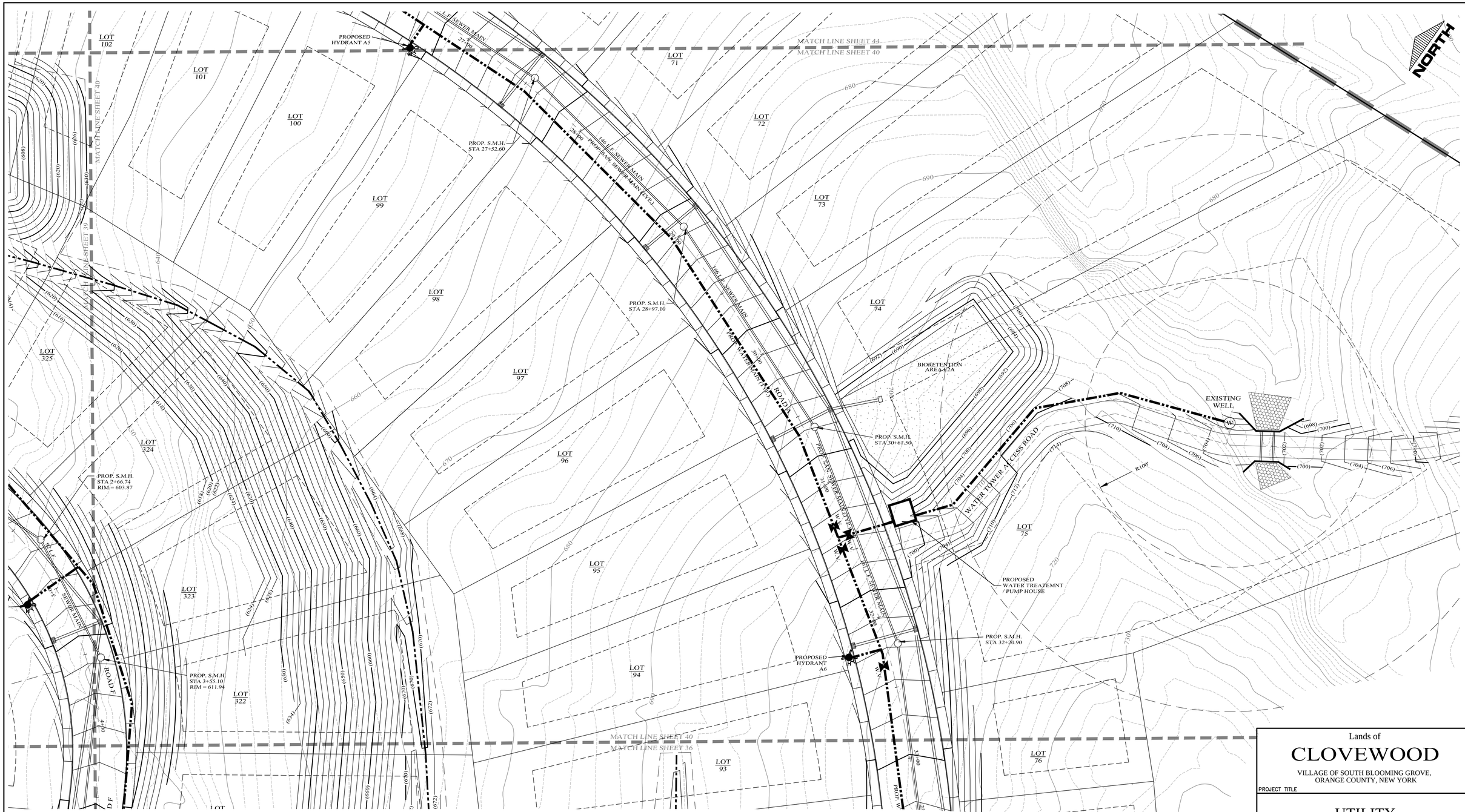
DRAWING TITLE

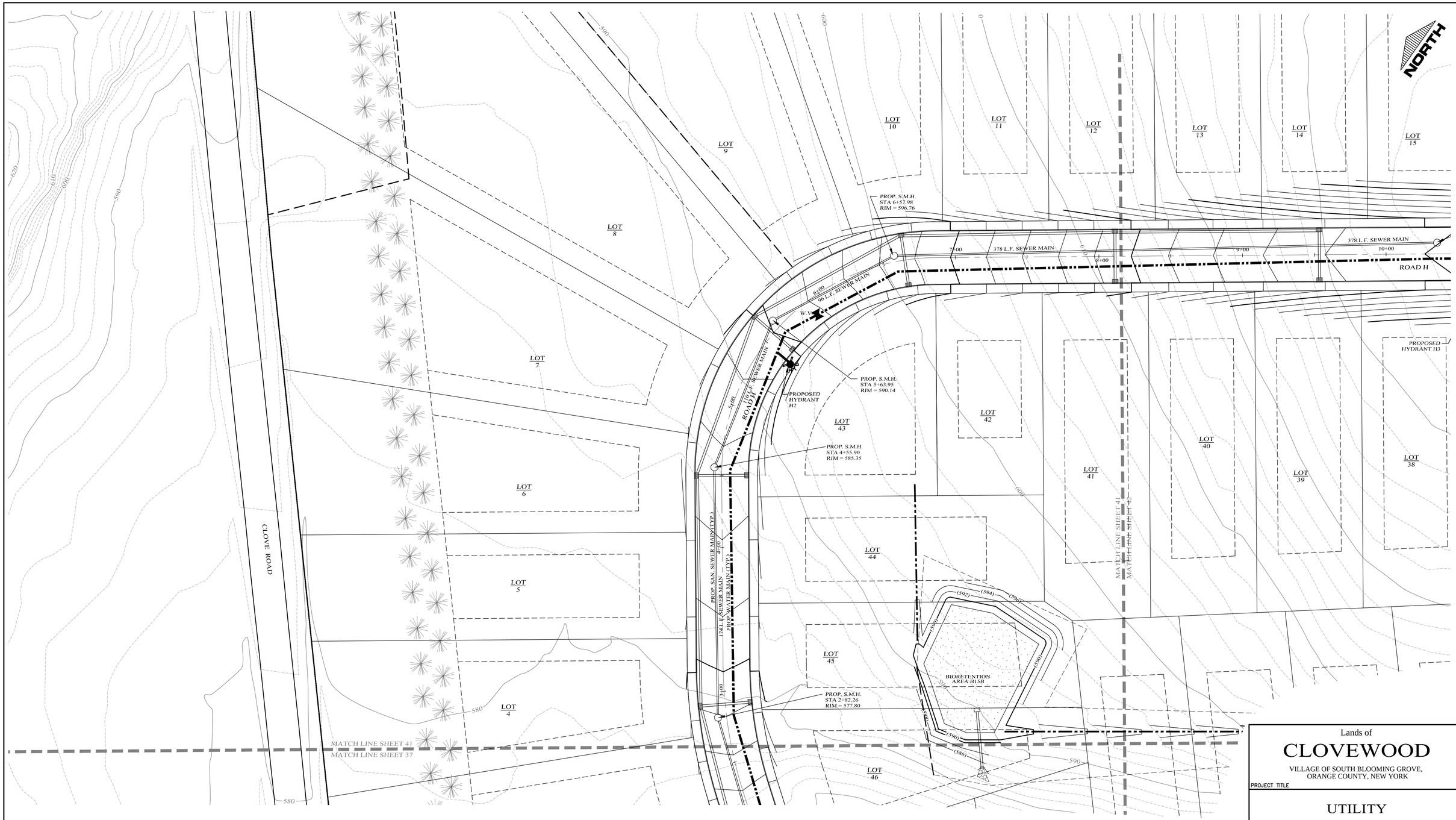
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 39
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	


NORTH
MATCH LINE SHEET 44
MATCH LINE SHEET 40
MATCH LINE SHEET 39
MATCH LINE SHEET 40
MATCH LINE SHEET 40
MATCH LINE SHEET 36
LOT 102
LOT 101
LOT 100
LOT 99
LOT 98
LOT 97
LOT 96
LOT 95
LOT 94
LOT 93
LOT 325
LOT 324
LOT 323
LOT 322
LOT 71
LOT 72
LOT 73
LOT 74
LOT 75
LOT 76
PROPOSED HYDRANT A5
PROP. S.M.H. STA 27+52.60
PROP. S.M.H. STA 28+97.10
PROP. S.M.H. STA 30+61.50
PROP. S.M.H. STA 32+20.90
PROP. S.M.H. STA 2+66.74 RIM = 603.87
PROP. S.M.H. STA 3+55.10 RIM = 611.94
PROPOSED HYDRANT A6
8" L.F. SEWER MAIN
PROP. SAN. SEWER MAIN (TYP.)
16" L.F. WATER MAIN
PROP. WATER MAIN (TYP.)
ROAD A
ROAD F
WATER TOWER ACCESS ROAD
BIORETENTION AREA 2-2A
EXISTING WELL
PROPOSED WATER TREATEMNT / PUMP HOUSE
R100'
R100'
R100'



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

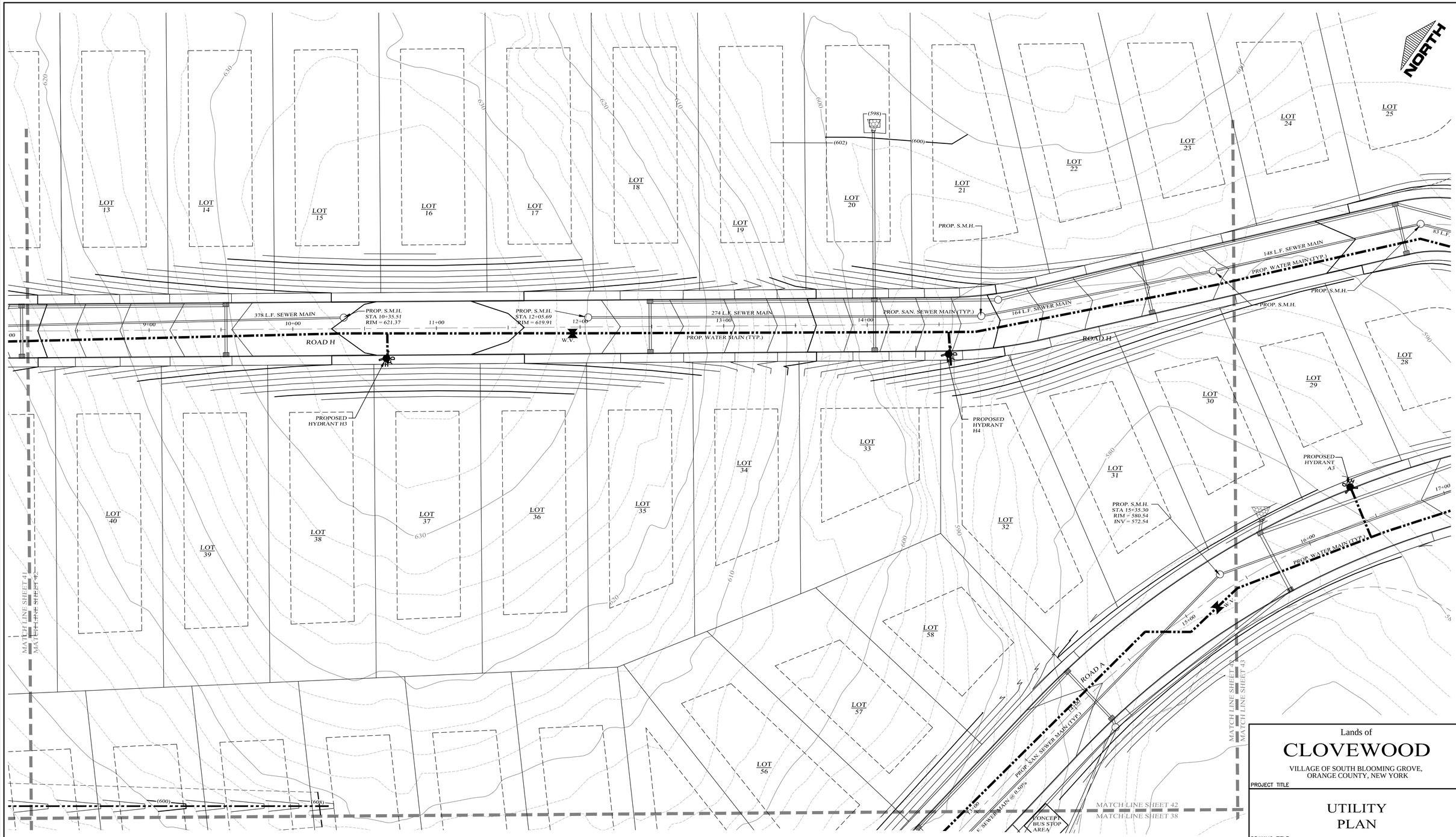
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 41
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 42
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

EXISTING FEDERAL WETLANDS

LOT 24 | LOT 25 | LOT 26 | LOT 27 | LOT 28 | LOT 29 | LOT 59 | LOT 60 | LOT 61 | LOT 62 | LOT 63 | LOT 64 | LOT 65 | LOT 66 | LOT 67 | LOT 103 | LOT 104 | LOT 105 | LOT 106

PROP. S.M.H.
STA 18+75.40
RIM = 587.22
INV = 581.22

148 L.F. SEWER MAIN

83 L.F. SEWER MAIN

PROP. WATER MAIN (TYP.)

PROP. S.M.H.

PROP. S.M.H.

135 L.F. SEWER MAIN

ROAD H

197 L.F. SEWER MAIN @ 1.11%

PROP. WATER MAIN (TYP.)

PROP. S.M.H.
STA 20+08.35
RIM = 591.33
INV = 579.33

PROP. S.M.H.

PROPOSED HYDRANT A3

17+00 283 L.F. SEWER MAIN @ 1.63%

ROAD A

18+00

20+00

185 L.F. SEWER MAIN

ROAD A

21+00

PROP. WATER MAIN (TYP.)

16+00

PROP. WATER MAIN (TYP.)

ROAD B

PROP. S.M.H.
"A" STA 18+14.25
"H" STA
RIM = 585.14
INV = 577.14

22+00

PROP. S.M.H.
STA 24+46.30

23+00

291 L.F. SEWER MAIN

PROP. SAN. SEWER MAIN (TYP.)

24+00

PROPOSED HYDRANT A4

25+00

152 L.F. SEW

PROP. WATER MA

ROAD A

BIORETENTION AREA E2B

WELL ACCESS ROAD

PROPOSED HYDRANT B1

1+00

MATCH LINE SHEET 42
MATCH LINE SHEET 43

MATCH LINE SHEET 43
MATCH LINE SHEET 44

MATCH LINE SHEET 43
MATCH LINE SHEET 39

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

DRAWING TITLE

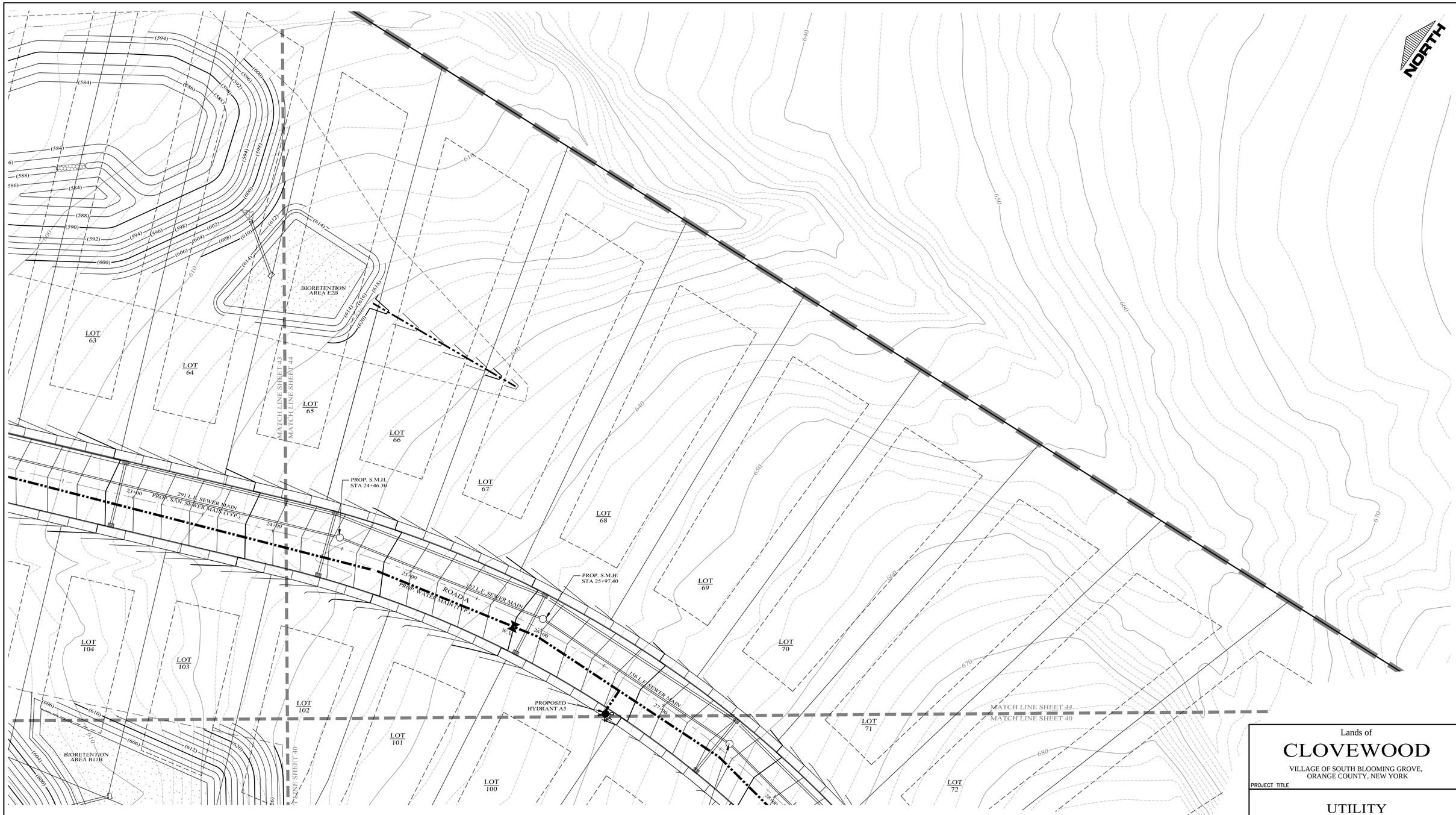
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 43
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

UTILITY PLAN

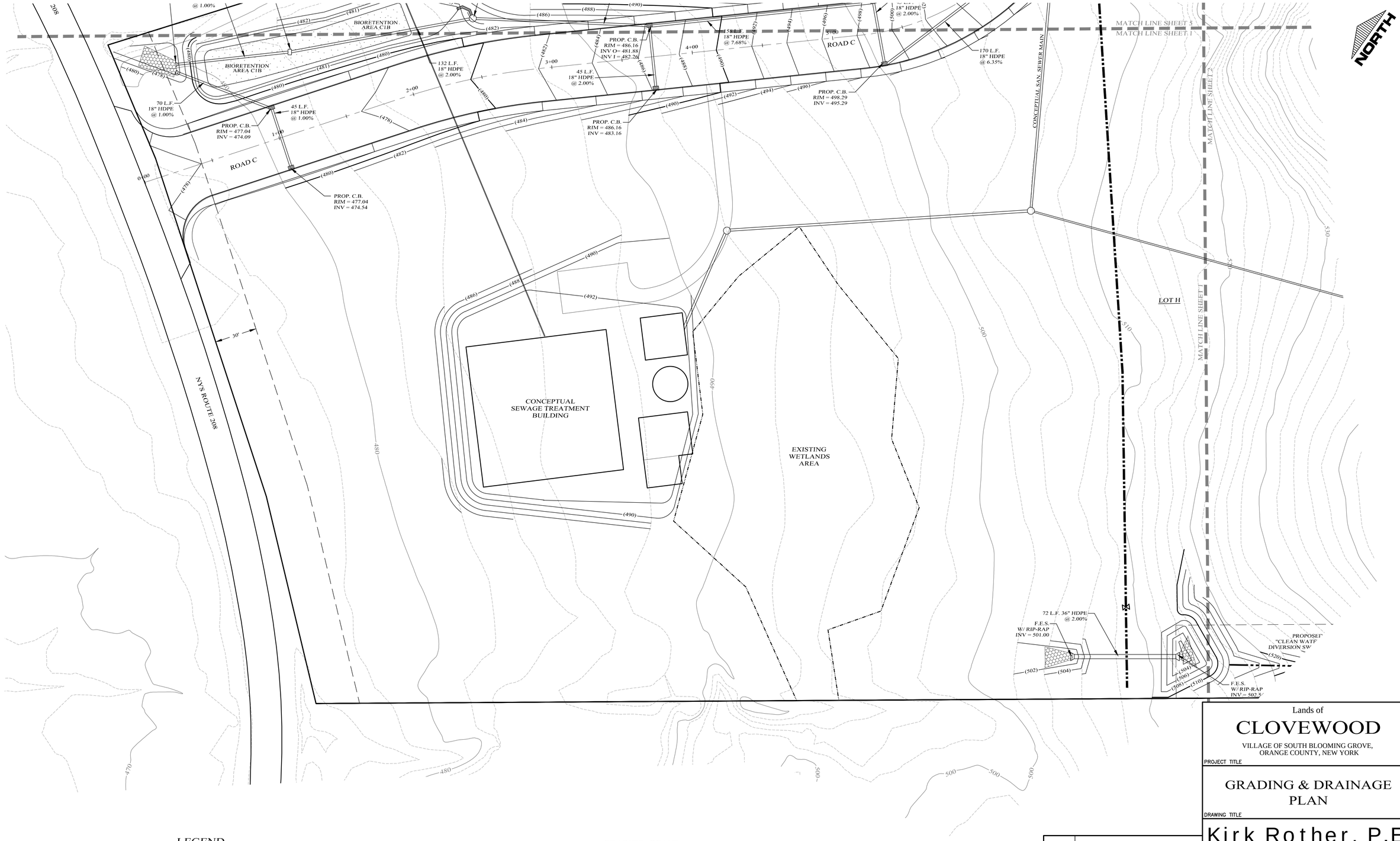
DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	U 44
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

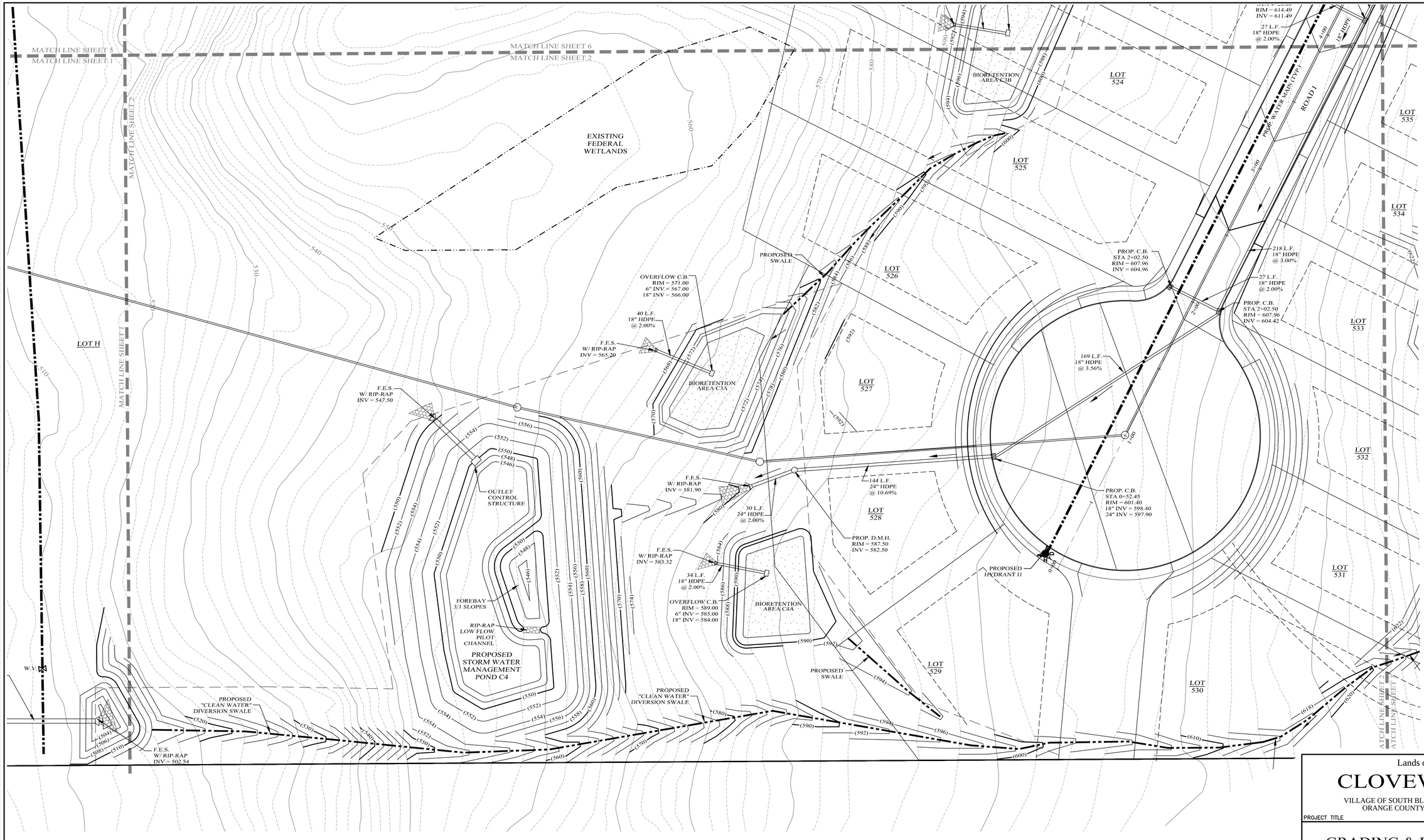
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2. OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

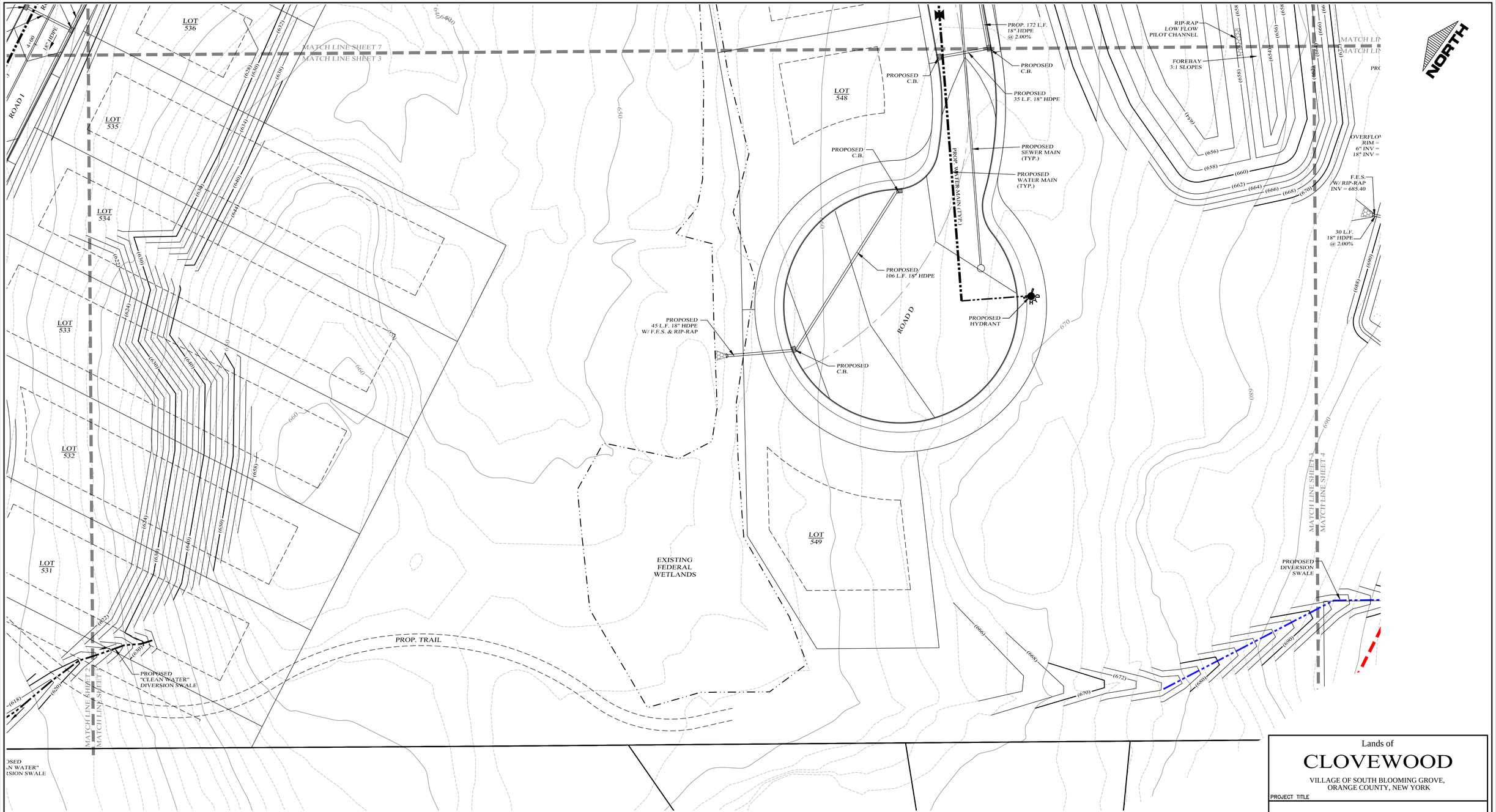
GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN — F.D. —
- PROPOSED ROOF DRAIN — R.D. — R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE — W — W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

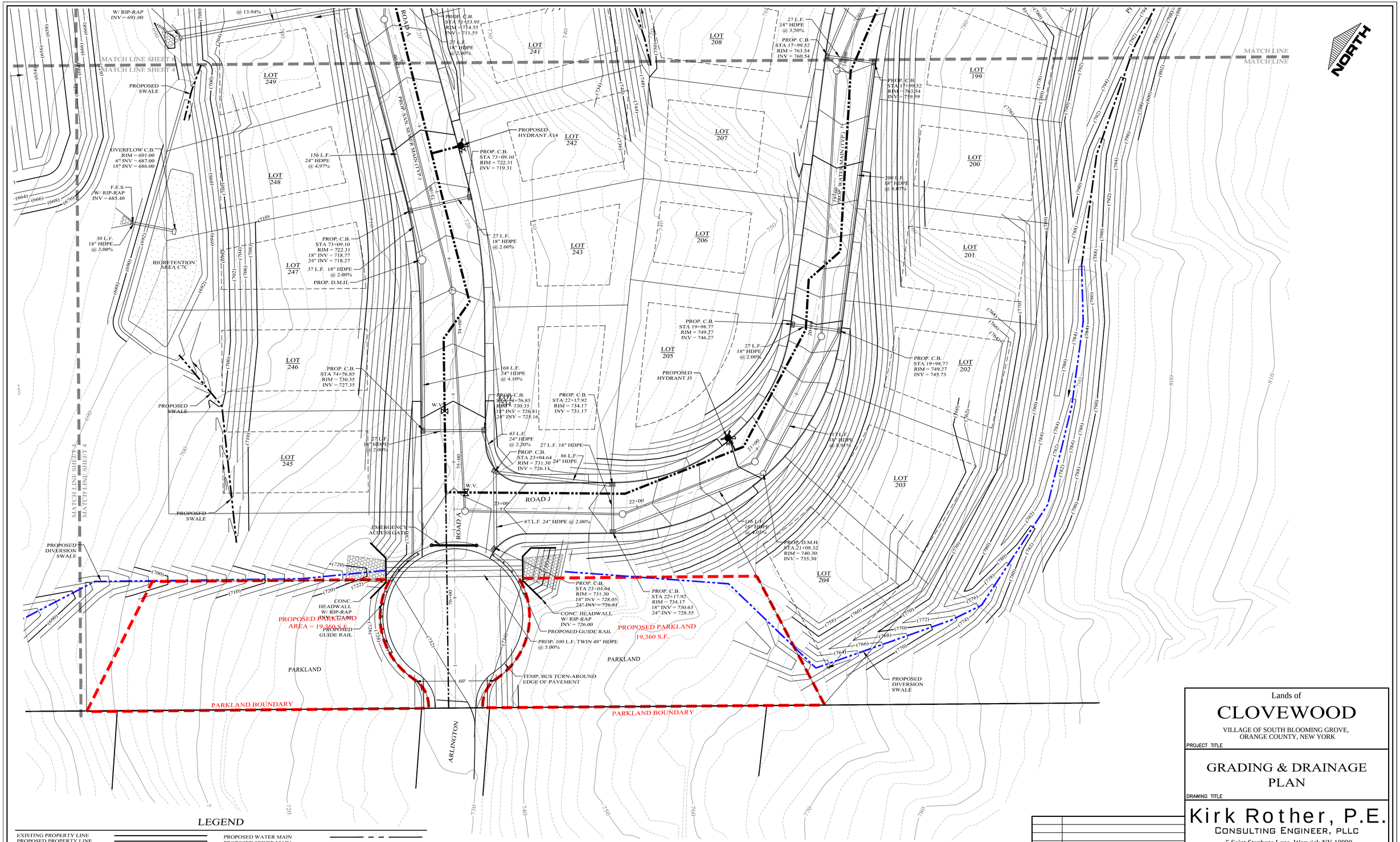
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 3
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

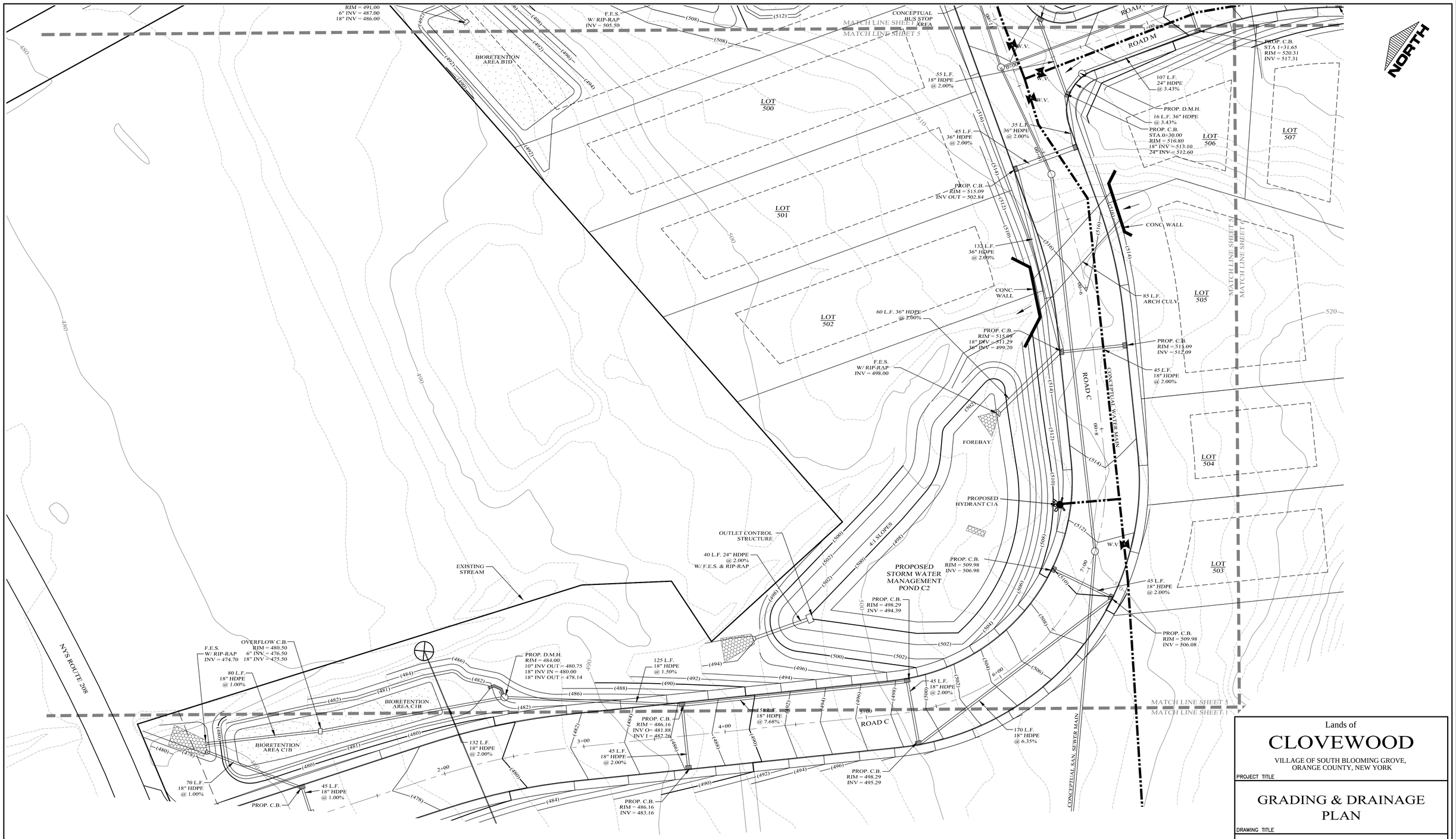
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 4
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

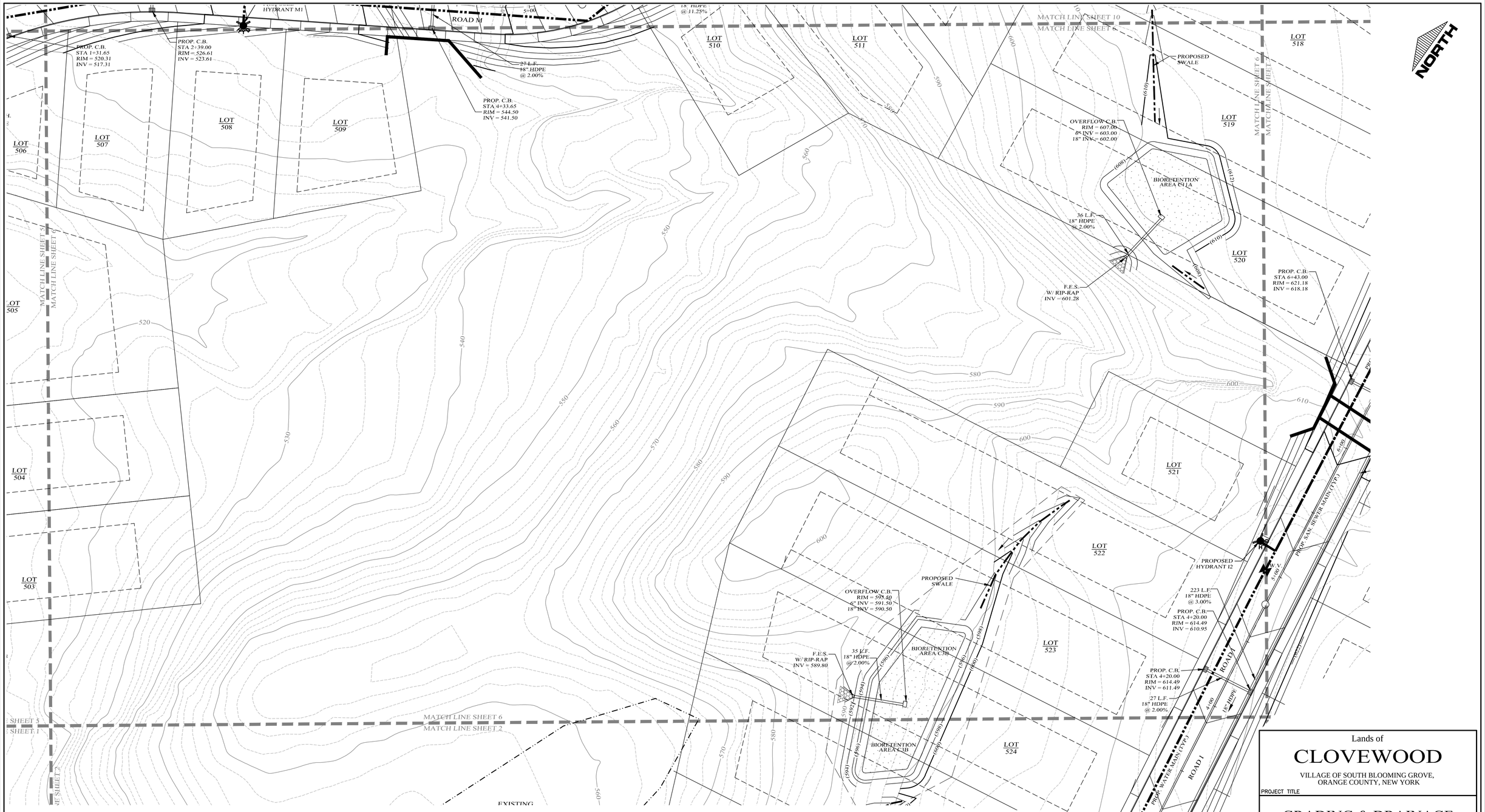
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 5
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	
PROPOSED PROPERTY LINE	
PROPOSED SETBACK LINE	
EXISTING 10' CONTOUR LINE	
EXISTING 2' CONTOUR LINE	
PROPOSED CONTOUR LINE	(600)
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
EXISTING DEC WETLANDS	
EXISTING FEDERAL WETLANDS	
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	
PROPOSED WATER MAIN	
PROPOSED SEWER MAIN	
PROPOSED SEWER MAN HOLE	
PROPOSED SEWER BLDG. LATERAL	
PROPOSED FOOTING DRAIN	F.D. F.D.
PROPOSED ROOF DRAIN	R.D. R.D.
PROPOSED DRAINAGE CULVERT	
PROPOSED DRAINAGE MAN HOLE	
PROPOSED DRAINAGE CATCH BASIN	
PROPOSED DRAINAGE FIELD INLET	
PROPOSED WATER SERVICE	W W
PROPOSED WTR SERV. VALVE BOX	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 6
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 7
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

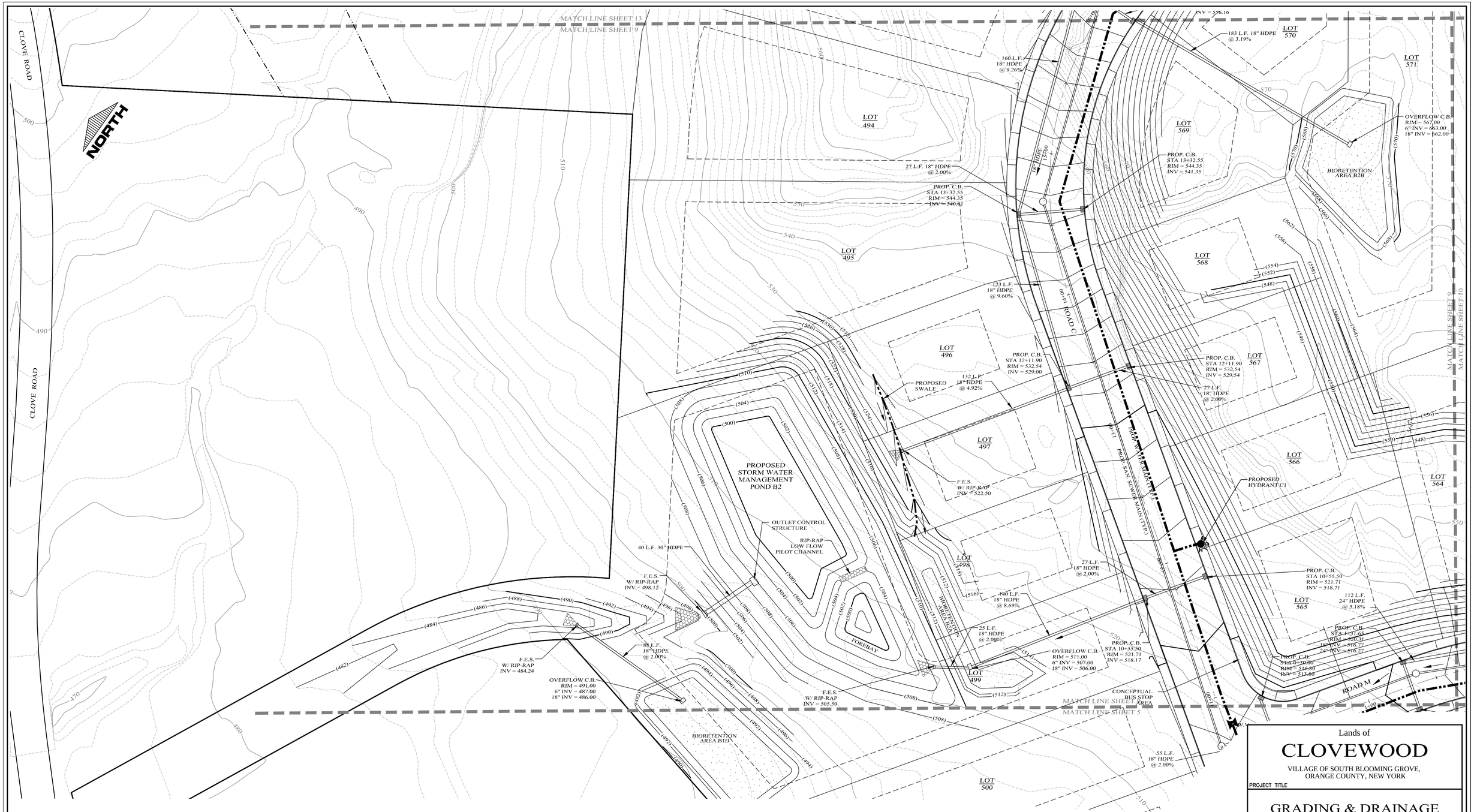
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	D.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 8
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN — F.D. — F.D.
- PROPOSED ROOF DRAIN — R.D. — R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE — W — W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

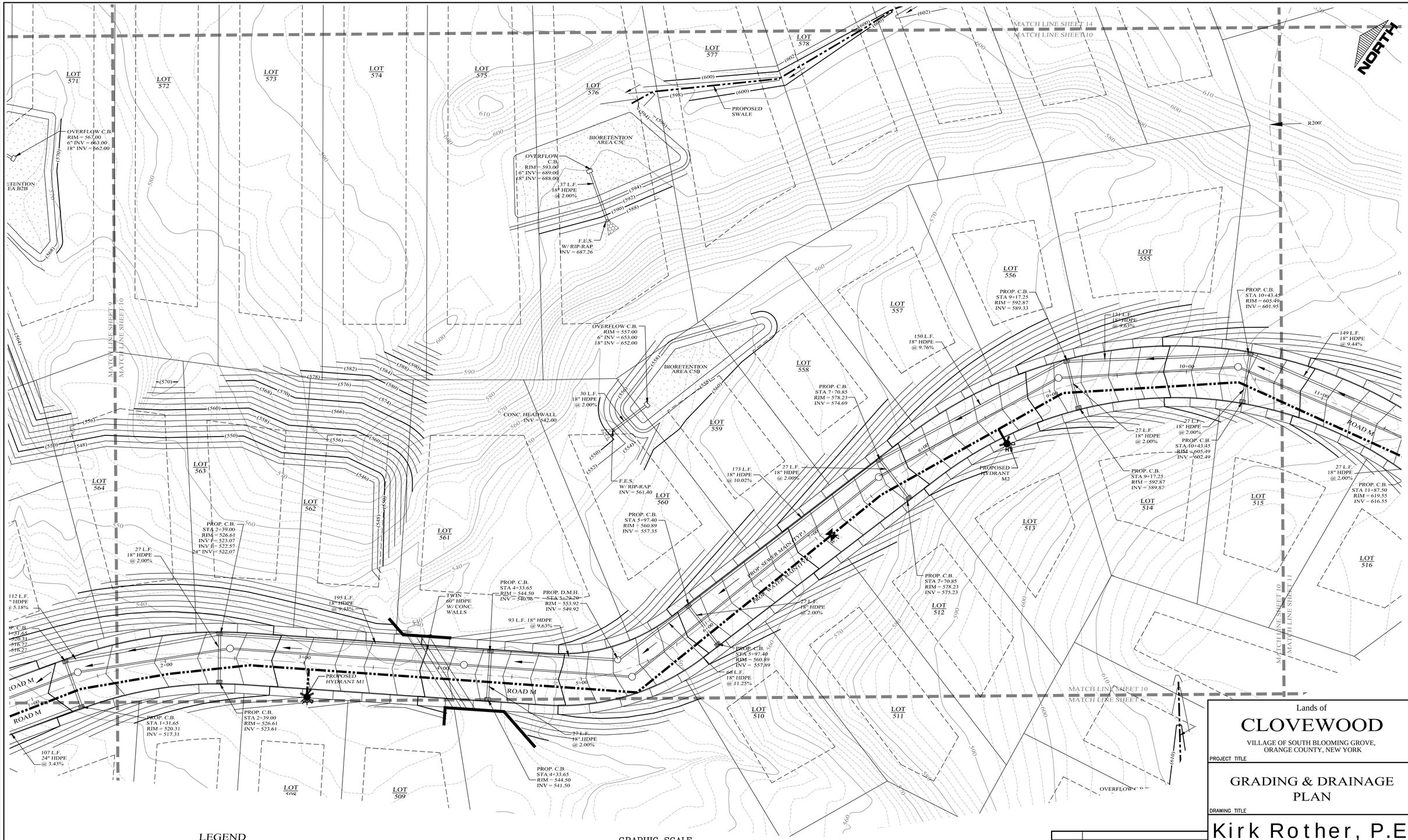
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 9
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 10
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 15
MATCH LINE SHEET 11

WELL 14

MATCH LINE SHEET 16
MATCH LINE SHEET 12

NORTH

LOT WELL 6

6

EXISTING WELL

ACCESS ROAD

R200'

R100'

LOT F

F.E.S. W/ RIP-RAP INV = 672.90

OVERFLOW C.B. RIM = 679.00 6" INV = 678.00 18" INV = 674.00

BIORETENTION AREA C6B

55 L.F. 18" HDPE @ 2.00%

4:1 SLOPES

FOREBAY 3:1 SLOPES

RIP-RAP LOW FLOW PILOT CHANNEL

OUTLET CONTROL STRUCTURE

36" HDPE

PROPOSED STORM WATER MANAGEMENT POND C6

FOREBAY 3:1 SLOPES

RIP-RAP LOW FLOW PILOT CHANNEL

FOREBAY 3:1 SLOPES

4:1 SLOPES

OVERFLOW C.B. RIM = 677.00 6" INV = 673.0 18" INV = 672

34 L.F. 18" HDPE @ 2.00%

BIORETENTION AREA C6A

F.E.S. W/ RIP-RAP INV = 679.50

PROPOSED SWALE

132 L.F. 24" HDPE @ 8.92%

148 L.F. 18" HDPE @ 5.40%

149 L.F. 18" HDPE @ 9.44%

F.E.S. W/ RIP-RAP INV = 615.26

37 L.F. 18" HDPE @ 2.00%

OVERFLOW C.B. RIM = 621.00 6"-INV = 617.00 18" INV = 616.00

BIORETENTION AREA C5A

PROP. C.B. STA 11+87.50 RIM = 619.55 INV = 616.01

ROAD M

11+00

12+00

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 11+87.50 RIM = 619.55 INV = 616.55

135 L.F. 18" HDPE @ 6.13%

PROP. C.B. STA 13+19.25 RIM = 627.83 INV = 624.29

PROP. C.B. STA 9+71.75 RIM = 631.42 INV = 627.42

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 13+19.25 RIM = 627.83 INV = 624.83

31 L.F. 18" HDPE @ 2.00%

178 L.F. 18" HDPE @ 5.65%

PROP. C.B. STA 11+45.10 RIM = 641.18 INV = 636.64

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 11+45.10 RIM = 641.18 INV = 637.18

TWIN 60" HDPE W/ CONC. WALLS

PROP. C.B. STA 13+64.05 RIM = 662.24 INV = 658.70

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 14+87.00 RIM = 674.54 INV = 671.04

PROP. C.B. STA 16+55.85 RIM = 689.30 18" INV = 685.76 24" INV = 685.26

170 L.F. 24" HDPE @ 8.36%

27 L.F. 18" HDPE @ 2.00%

ROAD I

14+00

15+00

16+00

27 L.F. 24" HDPE @ 3.00%

PROP. WATER MAIN (TYP.)

W.V.

PROPOSED HYDRANT I4

PROP. C.B. STA 16+55.85 RIM = 689.30 INV = 686.30

PROP. C.B. STA 14+87.00 RIM = 674.54 INV = 670.23

PROP. C.B. STA 13+64.05 RIM = 662.24 INV = 659.24

MATCH LINE SHEET 11
MATCH LINE SHEET 7

BOX CULVERT

BOX CULVERT

132 L.F. 24" HDPE @ 3.00%

PROP. 144 L.F. 18" HDPE @ 2.00%

PROP. W

54 L.F. 18" HDPE @ 2.68%

27 L.F. 18" HDPE @ 2.00%

PROP. HYDRANT I3

PROP. C.B. STA 9+71.75 RIM = 631.12

67 L.F.

9+00

10+00

MATCH LINE SHEET 10
MATCH LINE SHEET 11

MATCH LINE SHEET 6
MATCH LINE SHEET 7

LOT 516
LOT 517
LOT 518
LOT 542
LOT 554
LOT 552
LOT 553
LOT 551
LOT 550
LOT 260
LOT 259
LOT 261
LOT 262
LOT 263
LOT 257
LOT 182
LOT 267
LOT 266
LOT 265

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 11
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 16
MATCH LINE SHEET 12

F.E.S. W/ RIP-RAP INV = 672.90

OVERFLOW C.B. RIM = 679.00 6" INV = 675.00 18" INV = 674.00 BIORETENTION AREA C6B

55 L.F. 18" HDPE @ 2.00%

LOT 267

ROAD A

58 L.F. 24" HDPE @ 1.50%

LOT 229

LOT 220

PROPOSED HYDRANT A12

27 L.F. 18" HDPE @ 2.00%

LOT 266

PROP. C.B. STA 63+58.00 RIM = 701.89 18" INV = 698.89

PROP. C.B. STA 63+58.00 RIM = 701.89 18" INV = 698.35 24" INV = 694.93

LOT 230

PROP. WATER MAIN (TYP.)

PROP. SEWER MAIN (TYP.)

OVERFLOW C.B. RIM = 677.00 6" INV = 673.00 18" INV = 672.00

34 L.F. 18" HDPE @ 2.00% BIORETENTION AREA C6A

LOT 265

156 L.F. 24" HDPE @ 2.00%

LOT 231

F.E.S. W/ RIP-RAP INV = 679.50

PROPOSED SWALE

132 L.F. 24" HDPE @ 8.92%

PROP. C.B. STA 65+14.40 RIM = 697.20 INV = 691.27

PROP. C.B. STA 65+14.40 RIM = 697.20 INV = 691.81

LOT 232

LOT 263

LOT 264

27 L.F. 24" HDPE @ 2.00%

PROP. C.B. STA 16+55.85 RIM = 689.30 18" INV = 685.76 24" INV = 685.26

170 L.F. 24" HDPE @ 8.36%

98 L.F. 24" HDPE @ 3.59%

PROP. C.B. STA 17+52.75 RIM = 693.78 18" INV = 690.24 24" INV = 688.77

62 L.F. 24" HDPE @ 2.00%

ROAD A

LOT 233

PROP. D.M.H. RIM = 697.50 INV = 691.50

F.E.S. W/ RIP-RAP INV = 702.00

64 L.F. 15" HDPE @ 39.8%

104 L.F. 24" HDPE @ 10.10%

31 L.F. 24" HDPE @ 4.81%

PROP. C.B. STA 66+54.55 RIM = 694.79 INV = 690.01

57 L.F. 24" HDPE @ 2.00%

F.E.S. W/ RIP-RAP INV = 709.00

LOT 234

PROP. C.B. RIM = 737.00 INV = 734.00

CONCEPTUAL COMMUNITY CENTER

PROPOSED SWALE

27 L.F. 18" HDPE @ 2.00%

16+00

17+00

ROAD I

PROPOSED HYDRANT I4

PROP. C.B. STA 16+55.85 RIM = 689.30 INV = 686.30

PROP. C.B. STA 17+52.75 RIM = 693.78 INV = 690.78

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 67+10.95 RIM = 695.19 INV = 592.19

PROP. C.B. STA 67+10.95 RIM = 695.19 18" INV = 591.65 24" INV = 591.15

LOT 255

LOT 256

LOT 235

CONCEPTUAL COMMUNITY CENTER

MATCH LINE SHEET 12
MATCH LINE SHEET 13

LOT 213

LOT 214

LOT 215

LOT 216

LOT 217

LOT 218

LOT 219

LOT 185

PROP. C.B. STA 6+64.62 RIM = 747.28 INV = 744.28

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 6+64.62 RIM = 747.28 INV = 743.74

PROPOSED HYDRANT J2

LOT 186

PROP. C.B. STA 7+94.67 RIM = 759.49 INV = 756.49

134 L.F. 18" HDPE @ 9.11%

PROP. C.B. STA 7+94.67 RIM = 759.49 INV = 755.95

27 L.F. 18" HDPE @ 2.00%

LOT 187

PROP. C.B. STA 9+00.67 RIM = 770.09 INV = 767.09

110 L.F. 18" HDPE @ 9.64%

LOT 188

274 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 9+00.67 RIM = 770.09 INV = 766.55

PROPOSED "CLEAN WATER" DIVERSION SWALE

PROPOSED SWALE

LOT 189

PROP. WATER MAIN (TYP.)

23 L.F. 18" HDPE @ 6.59%

ROAD J

LOT 190

PROP. C.B. STA 10+76.47 RIM = 784.33 INV = 781.33

PROP. C.B. STA 10+76.47 RIM = 784.33 INV = 780.79

27 L.F. 18" HDPE @ 2.00%

PROPOSED HYDRANT J3

LOT 191

11+00

12+00

ROAD J

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN (F.D. / R.D.)
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE (W)
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 12
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

MATCH LINE SHEET 17
MATCH LINE SHEET 13

PROPOSED STORM WATER MANAGEMENT POND B3

RIP-RAP LOW FLOW PILOT CHANNEL

OUTLET CONTROL STRUCTURE

FOREBAY

RIM = 579.78
INV = 576.24

OVERFLOW C.B.
RIM = 547.00
6" INV = 543.00
18" INV = 542.00

157 L.F. 18" HDPE @ 2.99%

PROP. SEWER MAIN (TYP.)

PROP. WATER MAIN (TYP.)

274 L.F. 18" HDPE @ 2.00%

PROP. C.B.
STA 2+63.90
RIM = 575.09
INV I = 571.55
INV O = 571.05

PROP. C.B.
STA 2+63.90
RIM = 575.09
INV = 572.09

ROAD E

27 L.F. 18" HDPE @ 2.00%

F.E.S. W/ RIP-RAP INV = 541.46

111 L.F. 18" HDPE @ 3.14%

131 L.F. 24" HDPE @ 6.53%

27 L.F. 24" HDPE @ 2.00%

PROP. C.B.
STA 1+47.65
RIM = 571.60
INV = 567.60

F.E.S. W/ RIP-RAP INV = 558.50

F.E.S. W/ RIP-RAP INV = 556.50

PROP. C.B.
STA 1+47.65
RIM = 571.60
18" INV = 567.56
24" INV = 567.06

132 L.F. 24" HDPE @ 14.32%

137 L.F. 30" HDPE @ 3.00%

PROP. C.B.
RIM = 568.07
INV = 564.07

PROP. D.M.H.
RIM = 567.11
18" INV = 561.61
30" INV = 560.61

27 L.F. 30" HDPE @ 2.00%

PROP. C.B.
STA 17+56.15
RIM = 571.03
INV = 566.09

PROP. C.B.
RIM = 568.07
INV = 563.53

88 L.F. 18" HDPE @ 3.32%

15" HDPE

W.V.

PROP. C.B.
STA 15+86.15
RIM = 565.41
INV = 561.87

66 L.F. 30" HDPE @ 3.06%

18+00 STA

13 L.F. 18" HDPE @ 2.00%

27 L.F. 18" HDPE @ 2.00%

27 L.F. 30" HDPE @ 1.50%

17+00 STA

ROAD C

PROPOSED HYDRANT C2

PROP. C.B.
STA 14+86.90
RIM = 559.66
INV = 555.62

PROP. C.B.
STA 17+56.15
RIM = 571.03
24" INV = 566.99
30" INV = 566.49

27 L.F. 18" HDPE @ 5.00%

PROP. C.B.
STA 14+86.90
RIM = 559.66
INV = 556.16

PROP. C.B.
STA 15+86.15
RIM = 565.41
INV = 562.41

160 L.F. 18" HDPE @ 9.26%

LOT 386
LOT 387
LOT 388
LOT 389
LOT 390
LOT 391
LOT 489
LOT 490
LOT 491
LOT 492
LOT 493
LOT 494

EXISTING WETLANDS AREA

CLOVE ROAD

MATCH LINE SHEET 13
MATCH LINE SHEET 9

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

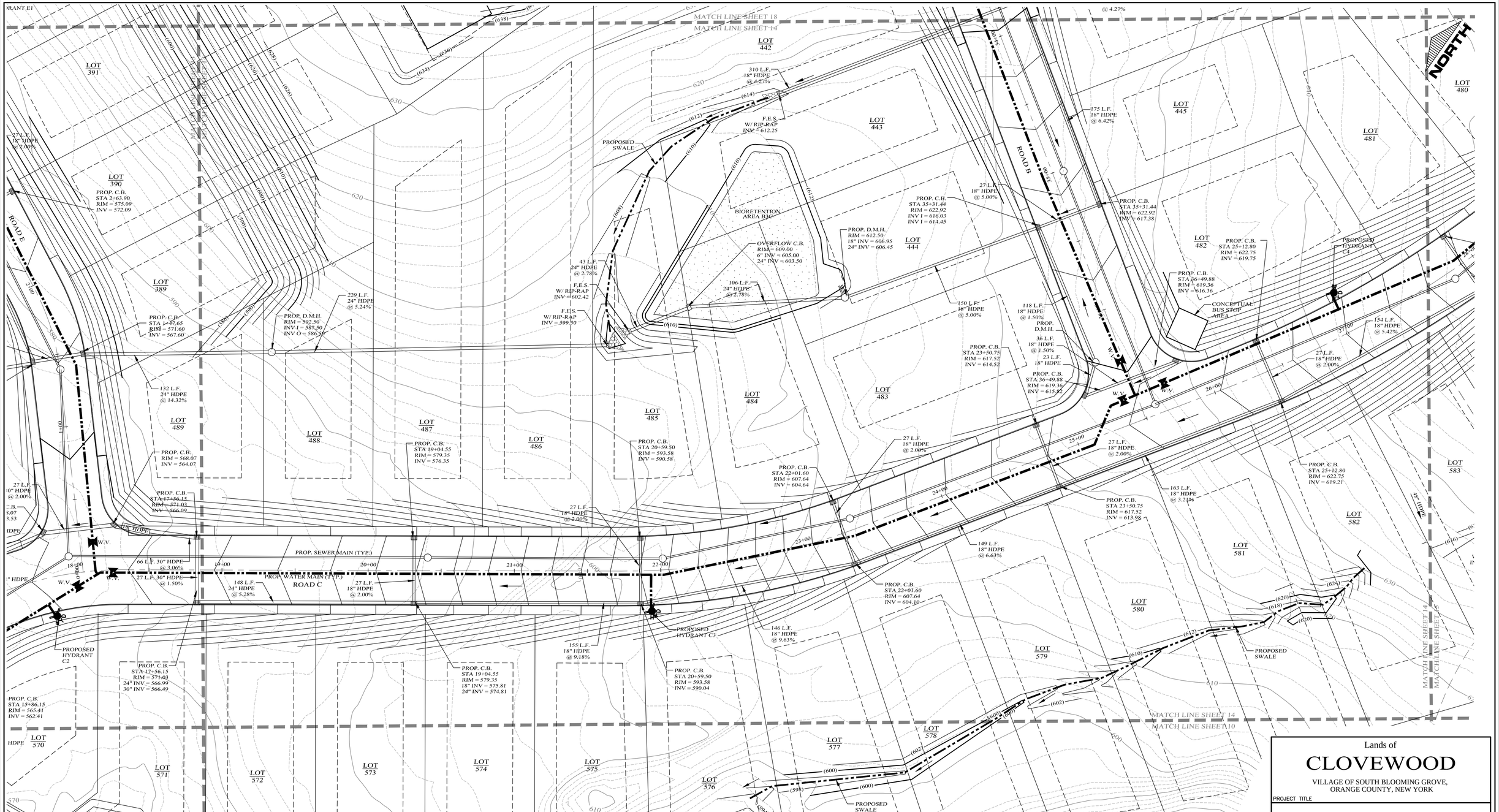
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 13
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 14
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

MATCH LINE SHEET 19
MATCH LINE SHEET 15

LOT 479
LOT 480
LOT 589
LOT 588
LOT 586
LOT 585
LOT 584
LOT 583
LOT 587
LOT 272
LOT 271
LOT WELL 6

45 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 28+08.50 RIM = 644.96 INV = 641.96
146 L.F. 18" HDPE @ 9.88%
PROP. C.B. STA 28+08.50 RIM = 644.96 INV = 641.42
146 L.F. 18" HDPE @ 9.15%
PROP. C.B. RIM = 631.60 INV = 628.60
45 L.F. 18" HDPE @ 2.00%
PROP. C.B. RIM = 631.60 INV I = 628.06 INV O = 627.56
38 L.F. 18" HDPE @ 2.00%
F.E.S. W/ RIP-RAP INV = 635.24
OVERFLOW C.B. RIM = 641.50 6" INV = 637.50 18" INV = 636.50
26 L.F. 18" HDPE @ 2.00%
F.E.S. W/ RIP-RAP INV = 677.48
OVERFLOW C.B. RIM = 683.00 6" INV = 679.00 18" INV = 678.00

ROAD C
PROPOSED WATER MAIN (TYP.)
PROPOSED SEWER MAIN (TYP.)
ACCESS ROAD
WELL ACCESS ROAD
WELL 14

EXISTING FEDERAL WETLANDS

BIORETENTION AREA CSD
PROPOSED SWALE
PROPOSED WATER TREATMNT / PUMP HOUSE
EXISTING WELL 14
EXISTING WELL 6
FOREBAY
4:1 SLOPES
R200'

MATCH LINE SHEET 14
MATCH LINE SHEET 11
MATCH LINE SHEET 15
MATCH LINE SHEET 11

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

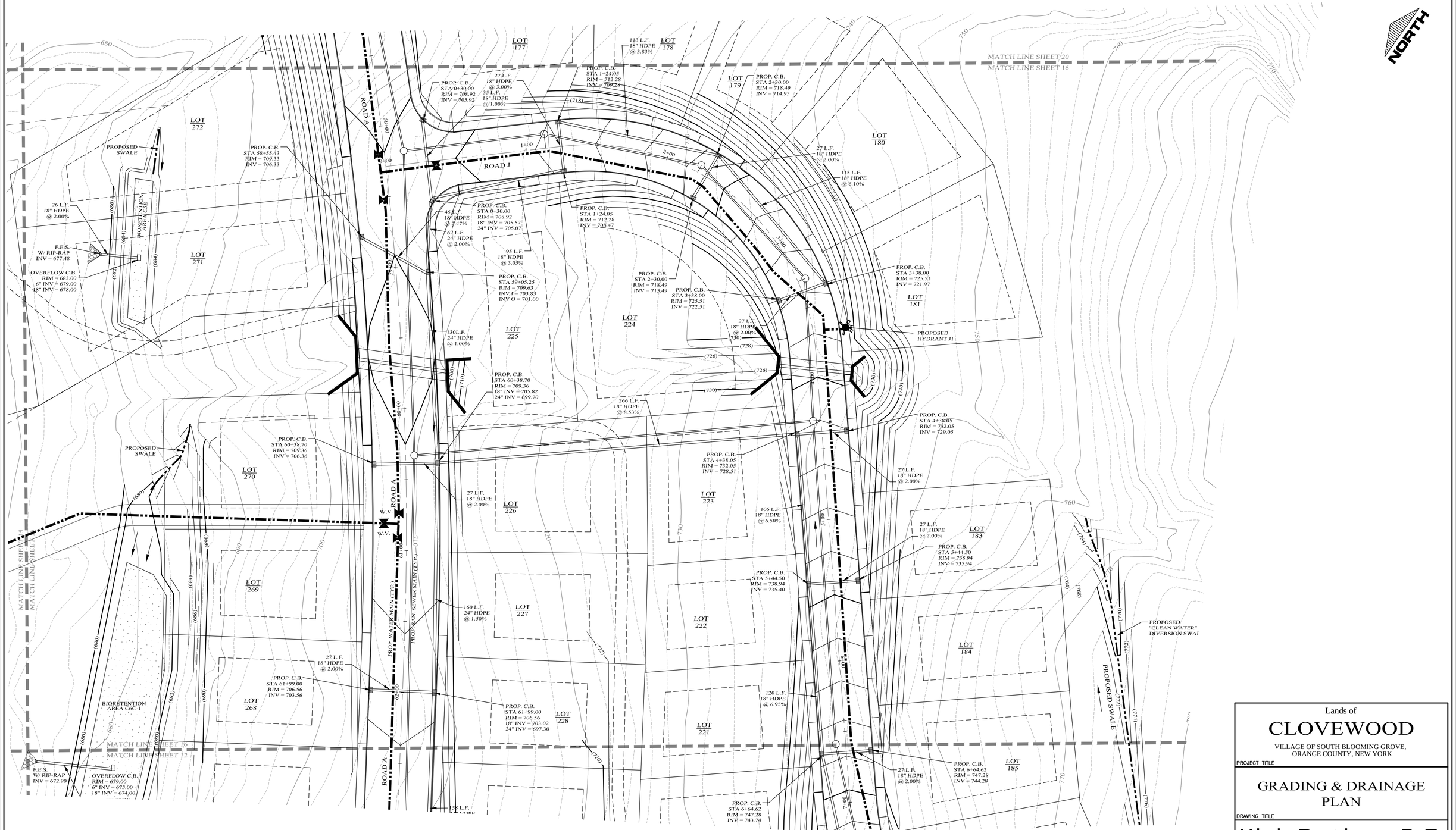
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 15
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 16
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 17
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 22
MATCH LINE SHEET 18
MATCH LINE SHEET 21
MATCH LINE SHEET 17
MATCH LINE SHEET 17
MATCH LINE SHEET 18
MATCH LINE SHEET 18
MATCH LINE SHEET 19
MATCH LINE SHEET 18
MATCH LINE SHEET 14

NORTH

FEDERAL WETLANDS

LOT 436
LOT 437
LOT 438
LOT 439
LOT 440
LOT 452
LOT 451
LOT 450
LOT 449
LOT 448
LOT 447
LOT 446
LOT 445
LOT 442
LOT D

27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 28+85.54 RIM = 670.05 INV = 667.05
PROP. C.B STA 28+85.54 RIM = 670.05 INV = 666.51
170 L.F. 18" HDPE @ 6.05%
PROP. SEWER MAIN (TYP.)
PROP. WATER MAIN (TYP.)
ROAD B
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 30+55.29 RIM = 659.77 INV = 656.23
PROP. C.B. STA 30+55.29 RIM = 659.77 INV = 655.69
154 L.F. 18" HDPE @ 9.01%
PROPOSED SWALE
PROP. C.B. STA 32+09.09 RIM = 645.35 INV = 641.81
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 32+09.09 RIM = 645.35 INV = 642.35
PROPOSED HYDRANT B7
149 L.F. 18" HDPE @ 8.86%
PROP. C.B. STA 33+56.49 RIM = 632.15 INV = 628.61
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 33+56.49 RIM = 632.15 INV = 629.15
310 L.F. 18" HDPE @ 4.27%
310 L.F. 18" HDPE @ 4.27%
175 L.F.

OVERFLOW C.B. RIM = 641.00 6" INV = 637.00 18" INV = 636.00
BIORETENTION AREA B3D
F.E.S. W/ RIP-RAP INV = 635.28
36 L.F. 18" HDPE @ 2.00%
F.E.S. W/ RIP-RAP INV = 625.50
OVERFLOW RIM = 653.00 6" INV = 649. 18" INV = 648
BIORETENTION AREA C13D
F.E.S. W/ RIP-RAP INV = 647.00
50 L.F. 18" HDPE @ 2.00%
45 L.F. 18" HDPE @ 2.00%
F.E.S. W/ RIP-RAP INV = 635.10
OVERFLOW C.B. RIM = 641.00 6" INV = 637.00 18" INV = 636.00
BIORETENTION AREA B4D
PROPOSED SWALE

CONCEPTUAL COMMUNITY CENTER
CONCEPTUAL PLAYGROUND AREA
CONCEPTUAL COMMUNITY CENTER
CONCEPTUAL COMMUNITY CENTER

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

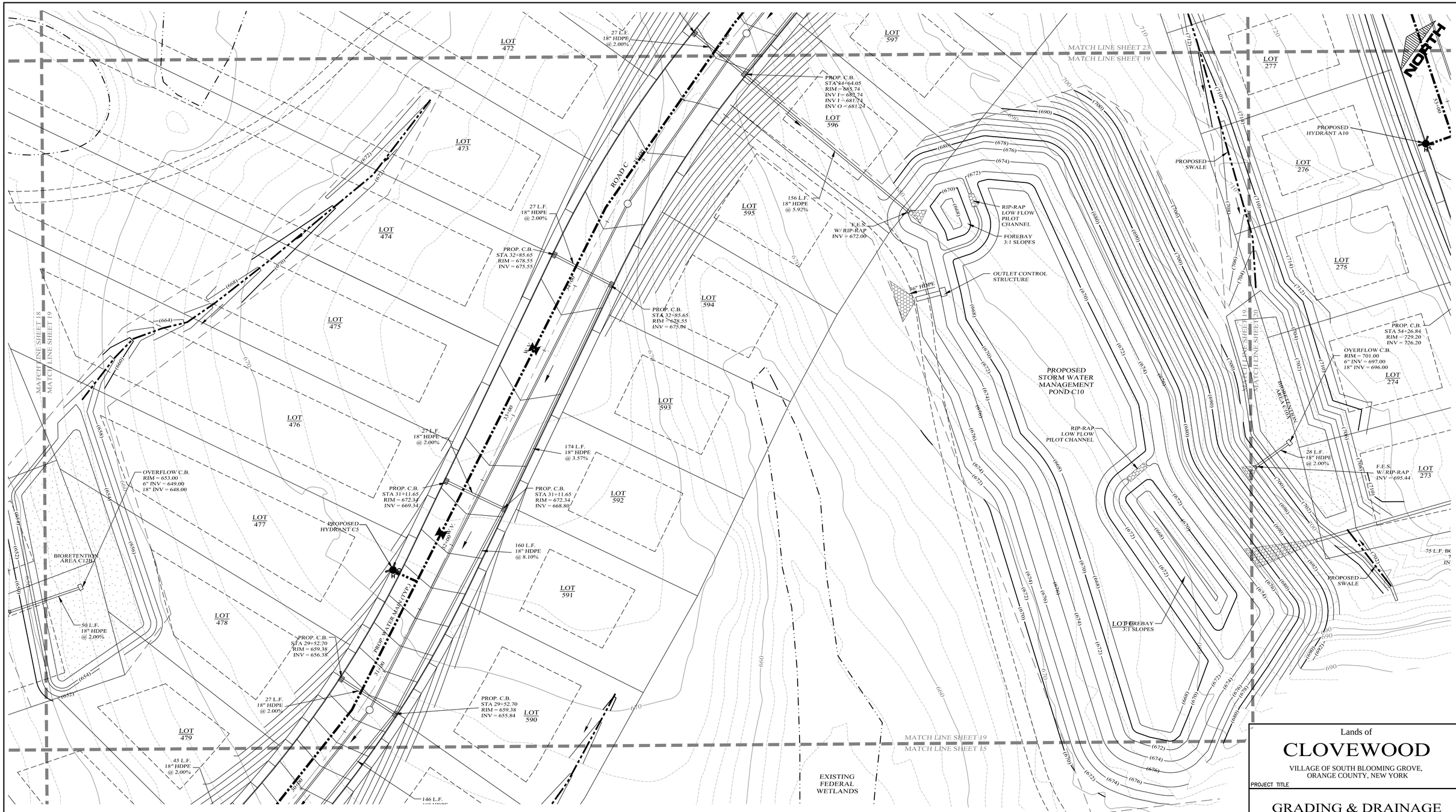
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 18
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 19
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE

- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 20
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 21
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 27
MATCH LINE SHEET 22

LOT 430 | LOT 431 | LOT 432 | LOT 433 | LOT 434 | LOT 435 | LOT 436

LOT 459 | LOT 458 | LOT 457 | LOT 456 | LOT 455 | LOT 454 | LOT 453 | LOT 452

LOT 301 | LOT 300 | LOT 299 | LOT 298 | LOT 297 | LOT 296 | LOT 295 | LOT 294

EXISTING FEDERAL WETLANDS

EXISTING FEDERAL WETLANDS

176 L.F. 18" HDPE @ 6.45%

PROP. SAN. SEWER MAIN (TYP.)

PROP. WATER MAIN (TYP.)

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 24+93.55 RIM = 669.31 INV = 666.31

PROP. C.B. STA 24+93.55 RIM = 669.31 INV = 665.77

ROAD B

PROPOSED HYDRANT B6

PROPOSED SWALE

PROPOSED SWALE

PROPOSED SWALE

PROP. C.B. STA 28+85.54 RIM = 670.05 INV = 667.05

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 28+85.54 RIM = 670.05 INV = 666.51

87 L.F. 18" HDPE @ 3.34%

PROP. C.B. RIM = 669.05 INV = 665.51

ROAD G

PROP. WATER MAIN (TYP.)

PROP. D.M.H. RIM = 667.60 INV = 662.60

PROPOSED HYDRANT G1

110 L.F. 18" HDPE @ 1.45%

44 L.F. 18" HDPE

PROP. D.M.H. RIM = 666.60 INV = 661.60

F.E.S. W/ RIP-RAP INV = 654.20

36 L.F. 18" HDPE @ 5.00%

BIORETENTION AREA B13C

OVERFLOW C.B. RIM = 661.00 6" INV = 657.00 18" INV = 656.00

PROPOSED SWALE

MATCH LINE SHEET 21
MATCH LINE SHEET 22

MATCH LINE SHEET 22
MATCH LINE SHEET 23

MATCH LINE SHEET 22
MATCH LINE SHEET 18

NORTH

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN (F.D. / R.D.)
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX (W)
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

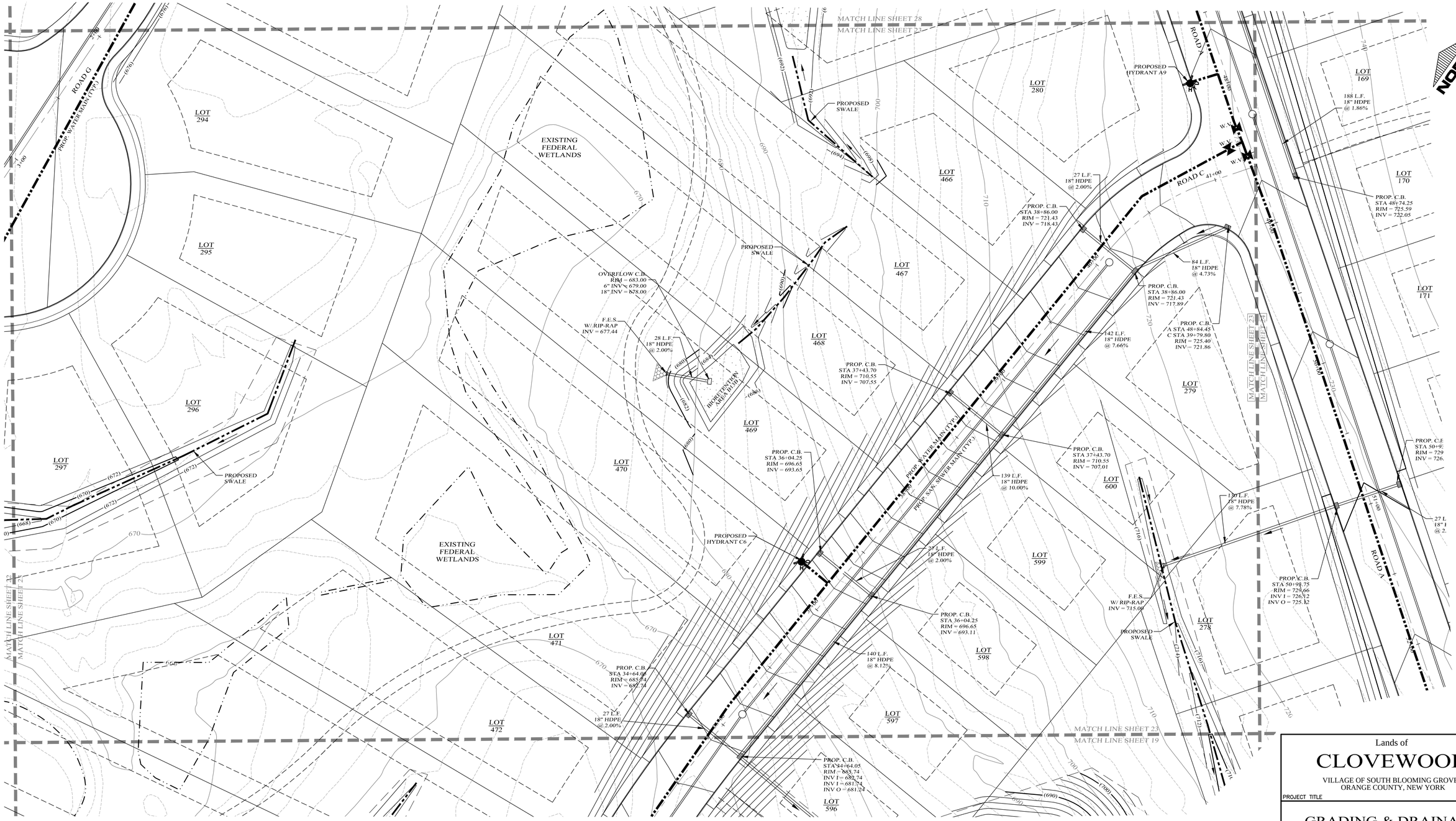
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 22
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

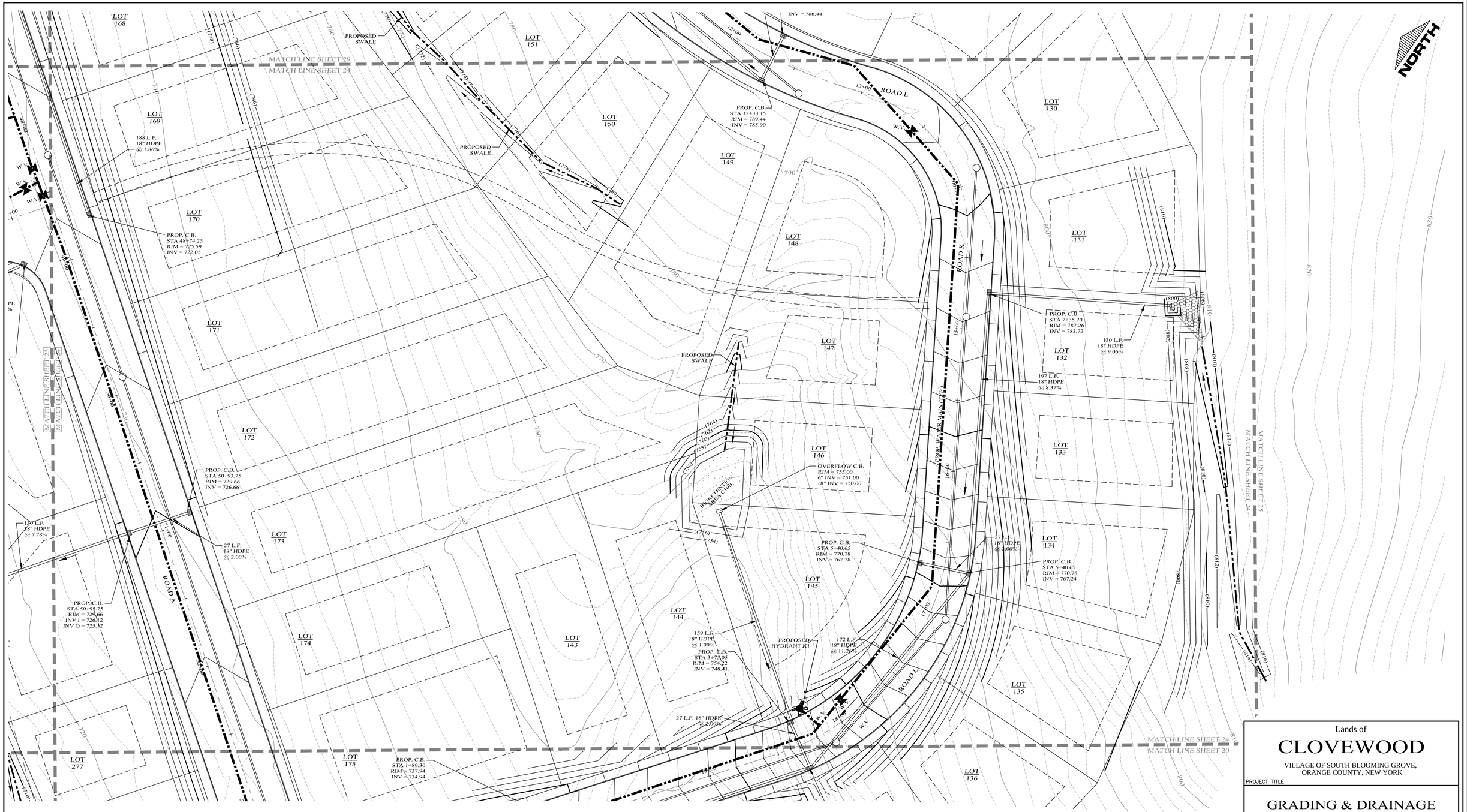
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 23
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 24
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2. OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 25
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

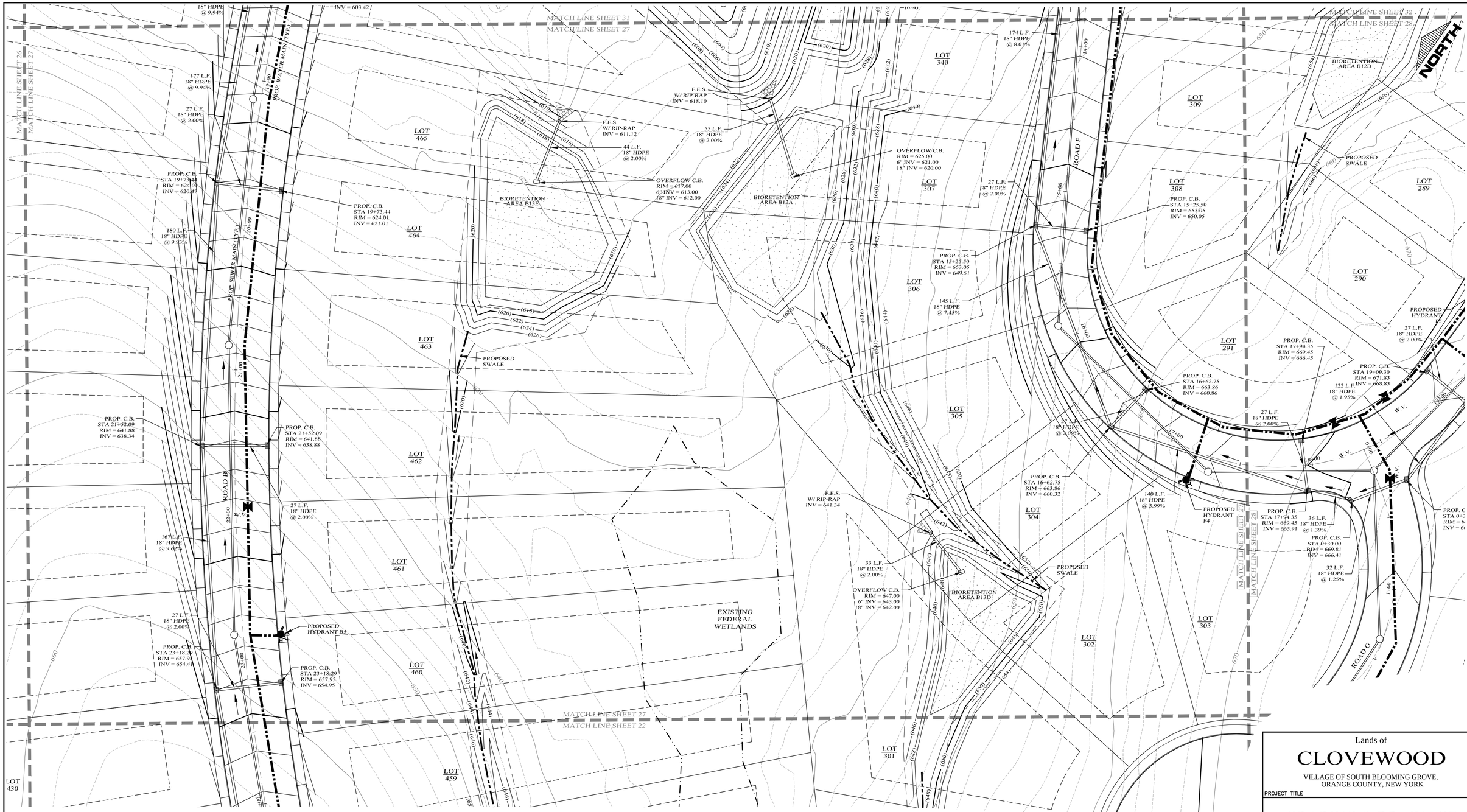
DRAWING TITLE

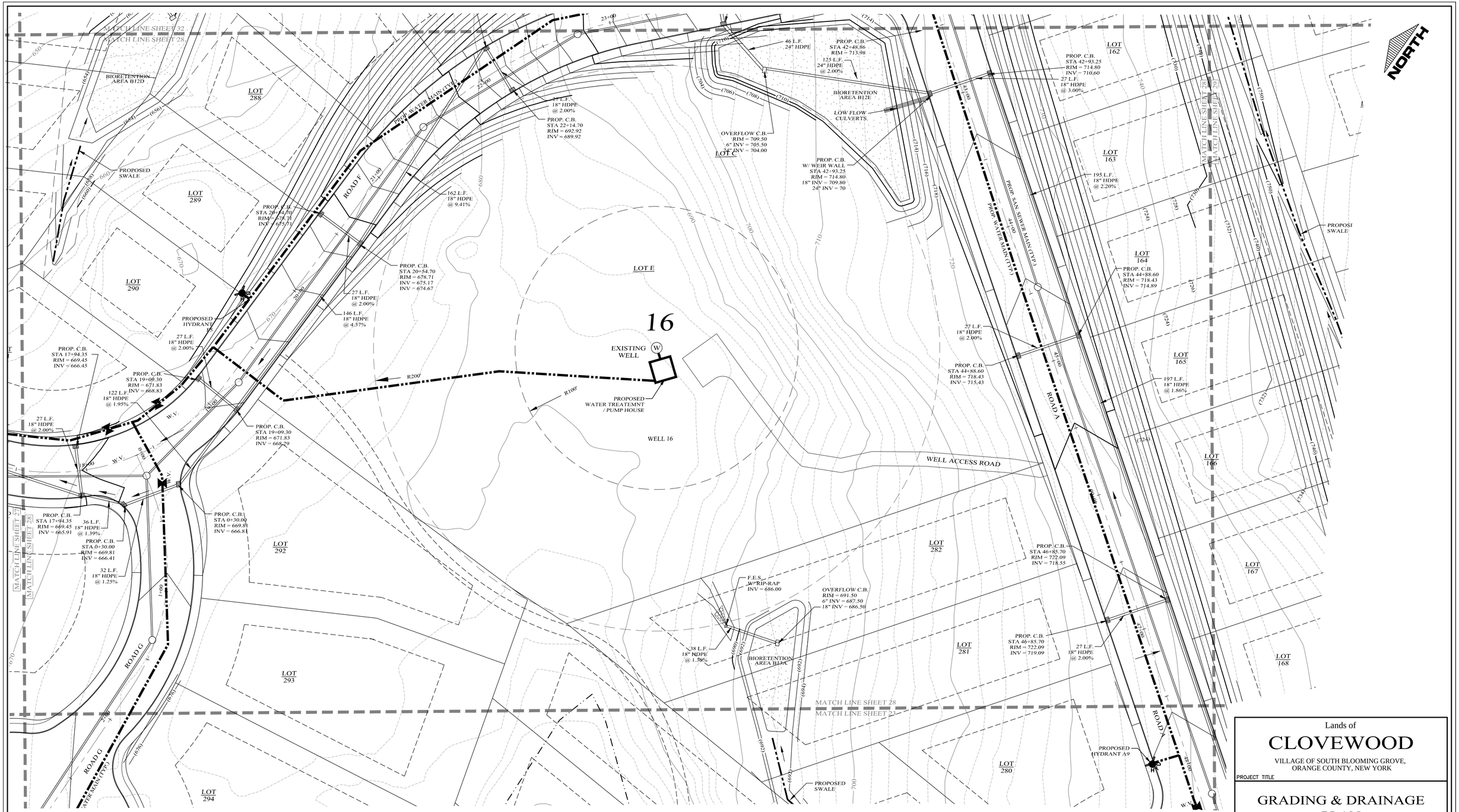
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 26
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	


MATCH LINE SHEET 31
MATCH LINE SHEET 27
MATCH LINE SHEET 32
MATCH LINE SHEET 28
MATCH LINE SHEET 26
MATCH LINE SHEET 27
MATCH LINE SHEET 27
MATCH LINE SHEET 22
NORTH
LOT 465
LOT 464
LOT 463
LOT 462
LOT 461
LOT 460
LOT 459
LOT 430
LOT 340
LOT 307
LOT 306
LOT 305
LOT 304
LOT 309
LOT 308
LOT 291
LOT 290
LOT 289
LOT 303
LOT 302
LOT 301
ROAD B
ROAD F
ROAD G
PROP. SEWER MAIN (TYP.)
PROP. WATER MAIN (TYP.)
177 L.F. 18" HDPE @ 9.94%
27 L.F. 18" HDPE @ 2.00%
180 L.F. 18" HDPE @ 9.93%
167 L.F. 18" HDPE @ 9.62%
INV = 603.42
18" HDPE @ 9.94%
PROP. C.B. STA 19+73.44 RIM = 624.01 INV = 620.47
PROP. C.B. STA 19+73.44 RIM = 624.01 INV = 621.01
PROP. C.B. STA 21+52.09 RIM = 641.88 INV = 638.34
PROP. C.B. STA 21+52.09 RIM = 641.88 INV = 638.88
PROP. C.B. STA 23+18.29 RIM = 657.95 INV = 654.41
PROP. C.B. STA 23+18.29 RIM = 657.95 INV = 654.95
27 L.F. 18" HDPE @ 2.00%
27 L.F. 18" HDPE @ 2.00%
PROPOSED HYDRANT B5
PROPOSED SWALE
F.E.S. W/ RIP-RAP INV = 618.10
F.E.S. W/ RIP-RAP INV = 611.12
44 L.F. 18" HDPE @ 2.00%
55 L.F. 18" HDPE @ 2.00%
OVERFLOW C.B. RIM = 617.00 6" INV = 613.00 18" INV = 612.00
BIORETENTION AREA B13E
BIORETENTION AREA B12A
OVERFLOW C.B. RIM = 625.00 6" INV = 621.00 18" INV = 620.00
F.E.S. W/ RIP-RAP INV = 641.34
33 L.F. 18" HDPE @ 2.00%
OVERFLOW C.B. RIM = 647.00 6" INV = 643.00 18" INV = 642.00
BIORETENTION AREA B13D
EXISTING FEDERAL WETLANDS
174 L.F. 18" HDPE @ 8.01%
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 15+25.50 RIM = 653.05 INV = 649.51
145 L.F. 18" HDPE @ 7.45%
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 16+62.75 RIM = 663.86 INV = 660.32
140 L.F. 18" HDPE @ 3.99%
PROPOSED HYDRANT F4
PROPOSED SWALE
BIORETENTION AREA B12D
PROP. C.B. STA 15+25.50 RIM = 653.05 INV = 650.05
PROPOSED HYDRANT F5
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 17+94.35 RIM = 669.45 INV = 666.45
PROP. C.B. STA 19+09.30 RIM = 671.83 INV = 668.83
122 L.F. 18" HDPE @ 1.95%
PROP. C.B. STA 16+62.75 RIM = 663.86 INV = 660.86
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 17+94.35 RIM = 669.45 INV = 665.91
36 L.F. 18" HDPE @ 1.39%
PROP. C.B. STA 0+30.00 RIM = 669.81 INV = 666.41
32 L.F. 18" HDPE @ 1.25%
PROP. C.B. STA 0+3 RIM = 6 INV = 66
PROPOSED SWALE
PROPOSED SWALE
PROPOSED HYDRANT
W.V.
W.V.
W.V.



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN (F.D.)
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN (R.D.)
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX (W)
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

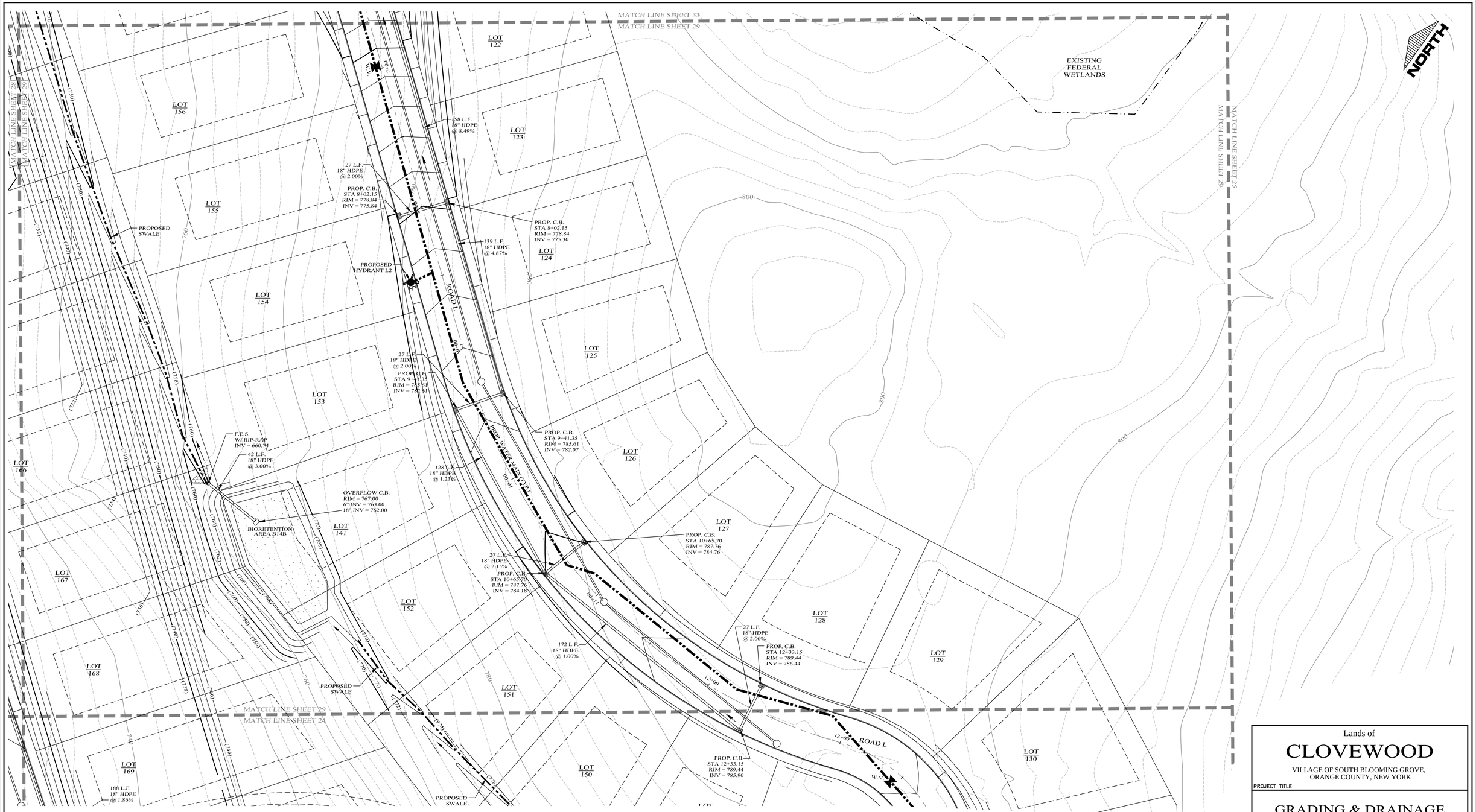
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 28
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

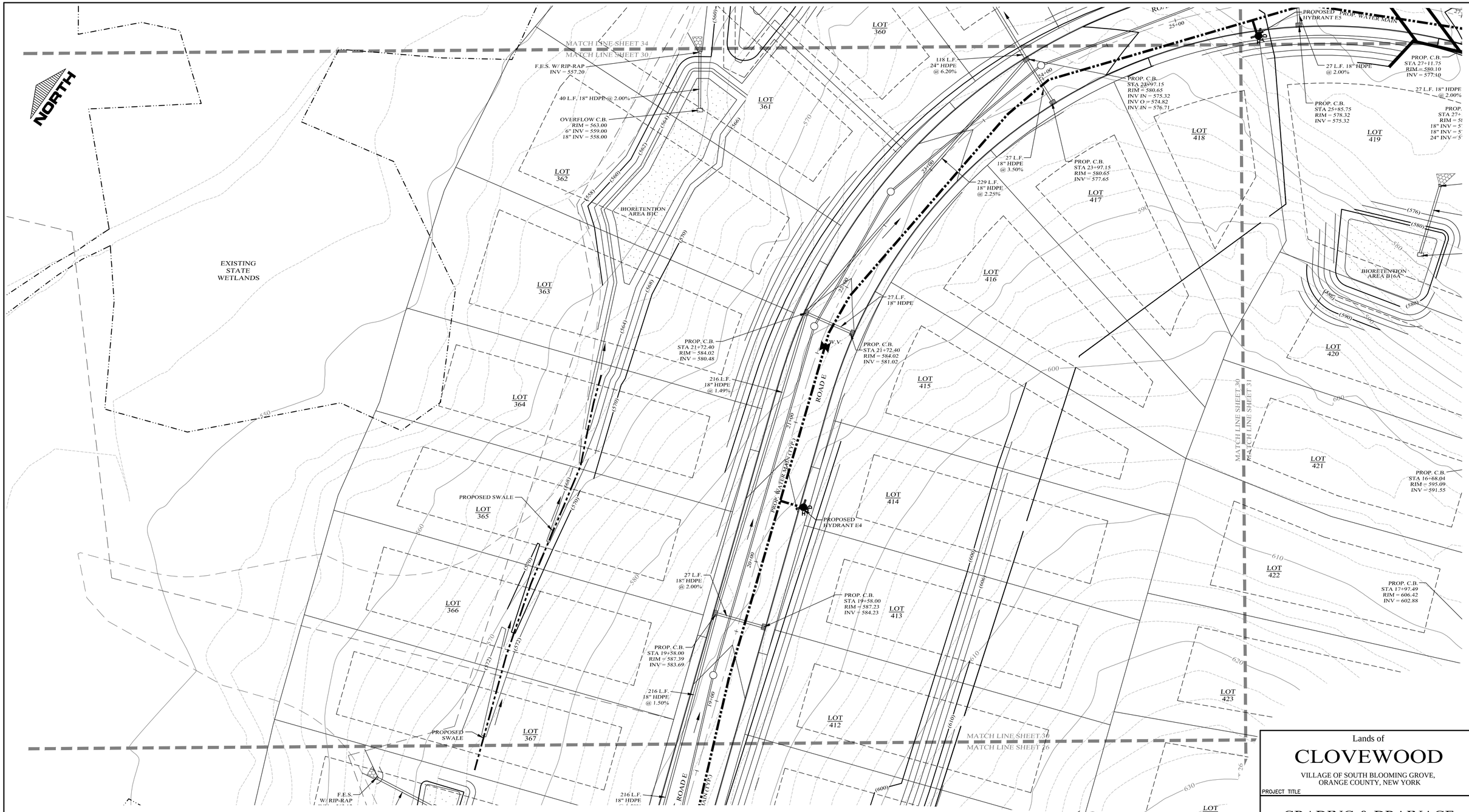
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 29
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

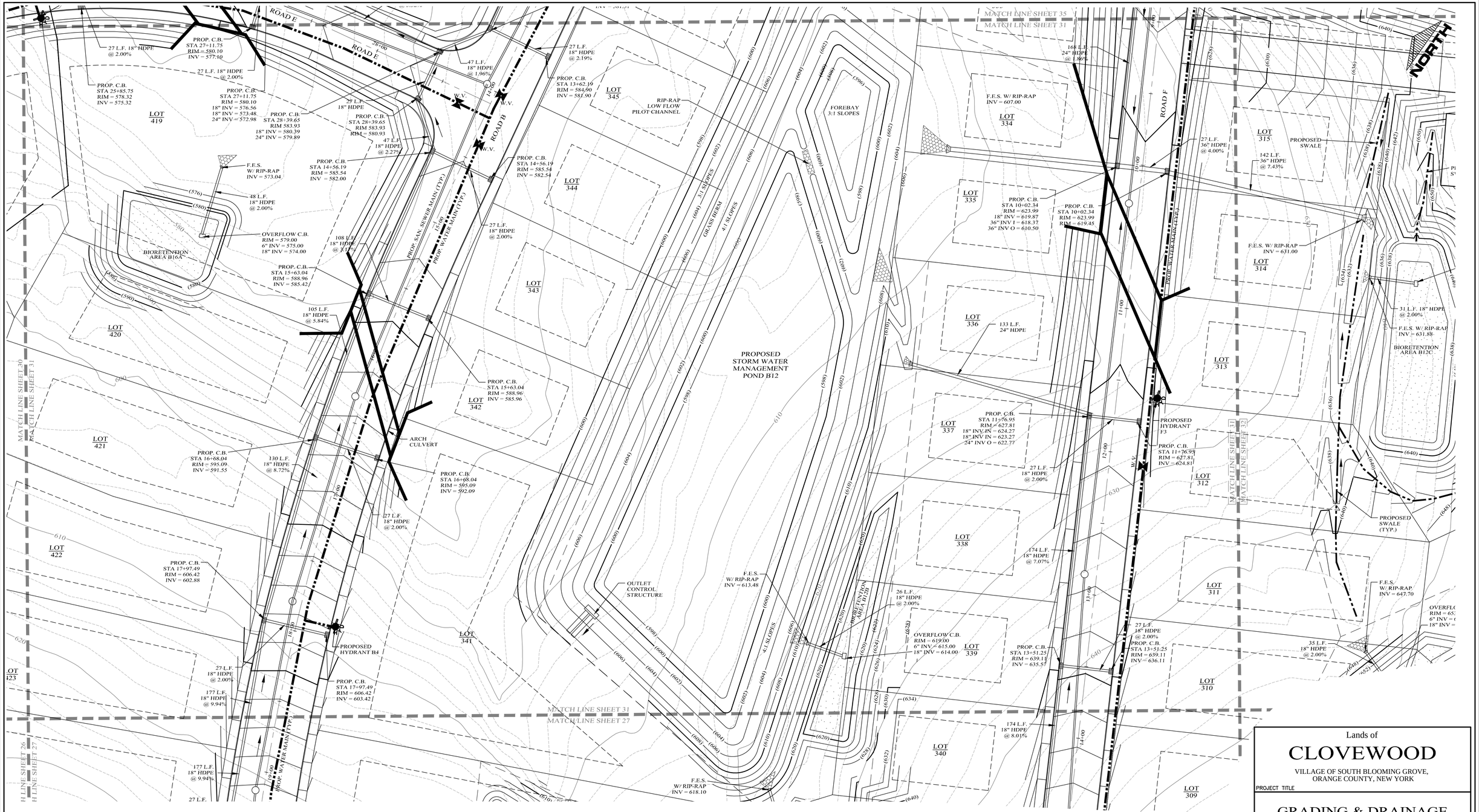
GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 30
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 31
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

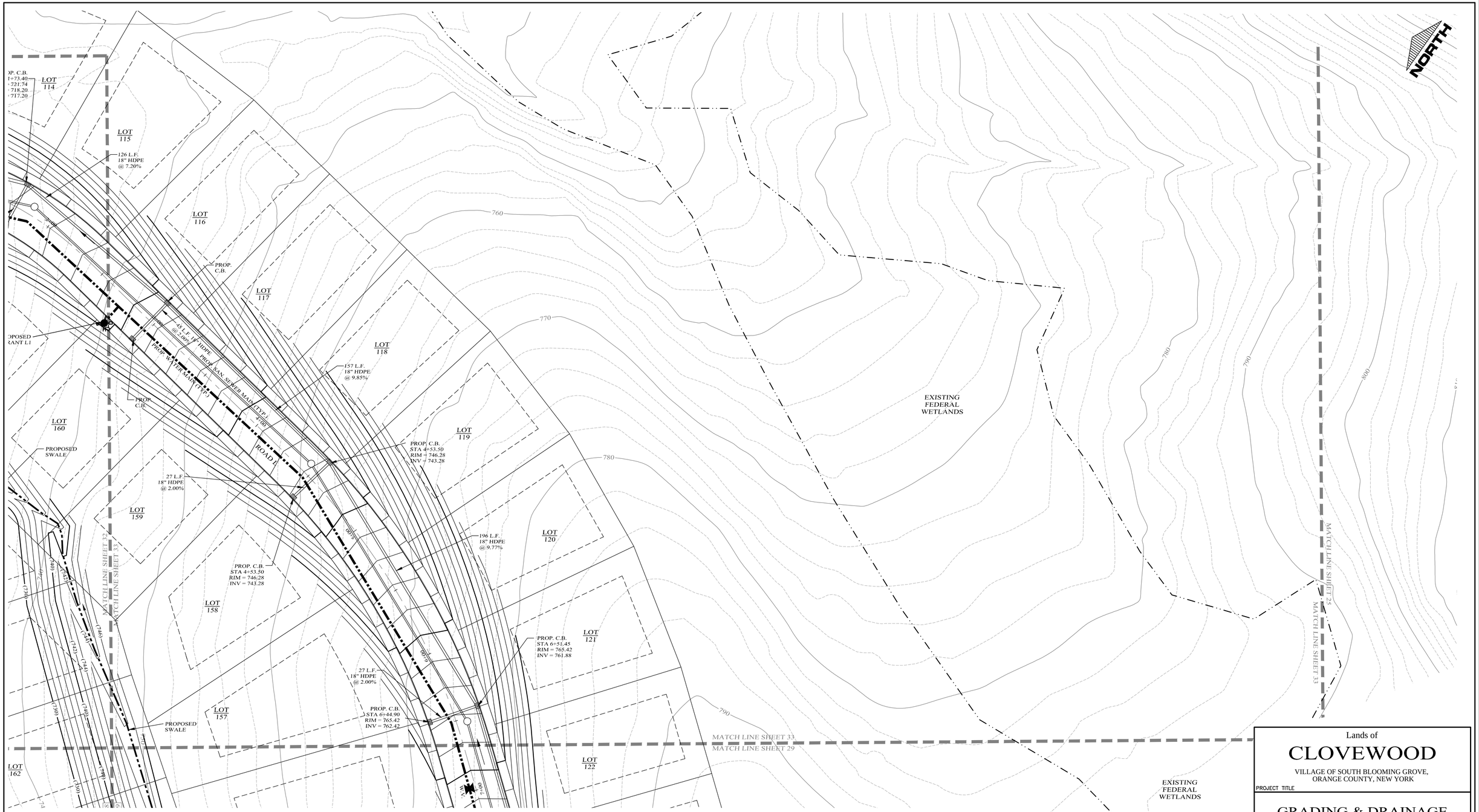
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 32
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE

- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE
- PROPOSED WTR SERV. VALVE BOX

F.D. R.D. F.D. R.D. W W

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05–19–23	REV. PER DEC COMMENTS
10–27–21	REV. PER DEIS COMMENTS
01–29–19	PRELIMINARY DESIGN
03–26–18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 33
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 38
MATCH LINE SHEET 34

MATCH LINE SHEET 34
MATCH LINE SHEET 35

MATCH LINE SHEET 34
MATCH LINE SHEET 30

NORTH

EXISTING STATE WETLANDS

EXISTING STATE WETLANDS

LOT B

F.E.S. W/ RIP-RAP
INV = 554.24

36" HDPE

GRASS BERM

4:1 SLOPES

OUTLET CONTROL STRUCTURE

RIP-RAP LOW FLOW PILOT CHANNEL

PROPOSED STORM WATER MANAGEMENT POND B6

FOREBAY 3:1 SLOPES

SWALE

F.E.S. W/ RIP-RAP
INV = 567.50

118 L.F.
24" HDPE
@ 6.20%

F.E.S. W/ RIP-RAP
INV = 557.20

40 L.F. 18" HDPE @ 2.00%

OVERFLOW C.B.
RIM = 563.00
6" INV = 559.00
18" INV = 559.00

LOT 357

LOT 358

LOT 359

LOT 360

LOT 361

PROP. C.B.
STA 25+85.75
RIM = 578.32
INV = 574.78

130 L.F.
18" HDPE
@ 5.34%

BOX CULVERT

LOT 356

ROAD E

PROPOSED PROP. WATER MAIN

HYDRANT E5

PROP. C.B.
STA 23+97.15
RIM = 580.65
INV IN = 575.32
INV O = 574.82
INV IN = 576.71

118 L.F.
24" HDPE
@ 6.20%

PROPOSED STORM WATER MANAGEMENT POND B7

FOREBAY 3:1 SLOPES

F.E.S. W/ RIP-RAP
INV = 563.50

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 34
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 39
MATCH LINE SHEET 35

NORTH

MATCH LINE SHEET 34
MATCH LINE SHEET 35

PROPOSED STORM WATER MANAGEMENT POND B7

GRASS BERM
4:1 SLOPES
36" HDPE
OUTLET CONTROL STRUCTURE
FOREBAY 3:1 SLOPES
RIP-RAP LOW FLOW PILOT CHANNEL
FOREBAY 3:1 SLOPES
RIP-RAP LOW FLOW PILOT CHANNEL
58 L.F. 24" HDPE @ 2.59%
F.E.S. W/ RIP-RAP INV = 563.50
PROP. D.M.H. RIM = 570.00 INV = 565.00
112 L.F. 24" HDPE @ 7.13%
PROP. C.B. STA 25+85.75 RIM = 578.32 INV = 574.78
130 L.F. 18" HDPE @ 5.33%
BOX CULVERT
PROPOSED HYDRANT E5
PROP. WATER MAIN
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 27+11.75 RIM = 580.10 INV = 577.10
27 L.F. 18" HDPE @ 2.00%
ROAD E
ROAD E
LOT 356
LOT 355
LOT 354
LOT 353
LOT 352
LOT 351
LOT 350
PROPOSED RETAINING WALL
PROP. C.B. STA 9+02.79 RIM = 589.44 INV = 586.44
27 L.F. 18" HDPE @ 2.00%
F.E.S. W/ RIP-RAP INV = 575.01
70 L.F. 24" HDPE @ 3.85%
PROP. C.B. STA 10+67.74 RIM = 587.79 INV = 577.20
27 L.F. 24" HDPE @ 2.00%
PROP. C.B. STA 10+67.74 RIM = 587.79 18" INV = 584.25 24" INV = 577.83
ROAD B
PROP. C.B. STA 12+10.09 RIM = 586.37 INV = 582.85
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 12+10.09 RIM = 586.37 INV = 583.37
PROP. WATER MAIN (TYP.)
PROPOSED HYDRANT B3
PROP. C.B. STA 13+62.19 RIM = 584.90 INV = 581.31
152 L.F. 18" HDPE @ 1.00%
130 L.F. 24" HDPE @ 5.32%
27 L.F. 24" HDPE @ 2.19%
47 L.F. 18" HDPE @ 1.96%
PROP. C.B.
LOT 349
LOT 348
LOT 347
LOT 346
LOT 111
LOT 110
LOT 109
PROP. C.B. STA 9+02.79 RIM = 589.44 18" INV = 585.90 24" INV = 581.17
167 L.F. 24" HDPE @ 2.00%
BOX CULVERT
PROP. C.B. STA 10+67.74 RIM = 587.79 18" INV = 584.25 24" INV = 577.83
LOT 330
LOT 329
LOT 328
PROP. C.B. STA 5+32.15 RIM = 625.53 INV = 621.99
27 L.F. 18" HDPE @ 2.00%
201 L.F. 18" HDPE @ 7.94%
ROAD F
PROP. SAN SEWER MAIN (TYP.)
PROPOSED HYDRANT F2
LOT 331
LOT 332
LOT 333
LOT 321
LOT 320
LOT 319
LOT 318
LOT 317
LOT 316
PROP. C.B. STA 8+34.95 RIM = 626.54 INV = 623.00
27 L.F. 18" HDPE @ 2.00%
PROP. C.B. STA 8+34.95 RIM = 626.54 INV = 623.54
168 L.F. 24" HDPE @ 1.86%
MATCH LINE SHEET 35
MATCH LINE SHEET 36
MATCH LINE SHEET 35
MATCH LINE SHEET 31
ROAD F

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 35
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET 40
MATCH LINE SHEET 36

NORTH

ROAD F

LOT 321
LOT 320
LOT 319
LOT 318
LOT 317
LOT 316
LOT 93
LOT 92
LOT 91
LOT 90
LOT 89
LOT 88
LOT 87
LOT A
LOT 76
LOT 77
LOT 78
LOT 79
LOT 80
LOT 81
LOT 82
LOT 114

PROPOSED SWALE
PROP. C.B.
STA 5+32.15
RIM = 625.53
INV = 622.53
PROPOSED HYDRANT F2
PROP. C.B.
STA 8+34.95
RIM = 626.54
INV = 623.54
MATCH LINE SHEET 35
MATCH LINE SHEET 36

PROP. WATER MAIN (TYP.)
27 L.F. 18" HDPE @ 2.00%
PROP. C.B.
STA 33+89.35
RIM = 714.23
INV = 711.23
PROP. C.B.
STA 33+89.35
RIM = 714.23
INV = 710.69
193 L.F. 18" HDPE @ 1.52%
ROAD A
PROP. C.B.
STA 35+82.35
RIM = 717.17
INV = 713.63
27 L.F. 18" HDPE @ 2.00%
PROPOSED HYDRANT A7

F.E.S. W/ RIP-RAP
INV = 678.49
BIORETENTION AREA B1A
OVERFLOW C.B.
RIM = 685.00
6" INV = 681.00
18" INV = 680.00
PROP. C.B.
STA 35+82.35
RIM = 717.17
INV = 714.17
72 L.F. 18" HDPE @ 2.10%
PROPOSED SWALE
34 L.F. 24" HDPE @ 6.91%
F.E.S. W/ RIP-RAP
INV = 681.00
PROP. D.M.H.
RIM = 688.35
INV = 683.35
96 L.F. 18" HDPE @ 5.89%
120 L.F. 24" HDPE @ 16.79%
PROP. D.M.H.
PROP. C.B.
STA 0+30.00
RIM = 715.83
18" INV = 712.83
24" INV = 711.33
PROP. C.B.
STA 1+73.40
RIM = 721.74
18" INV = 718.20
24" INV = 717.20

CONCEPTUAL COMMUNITY CENTER
MATCH LINE SHEET 36
MATCH LINE SHEET 31

LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

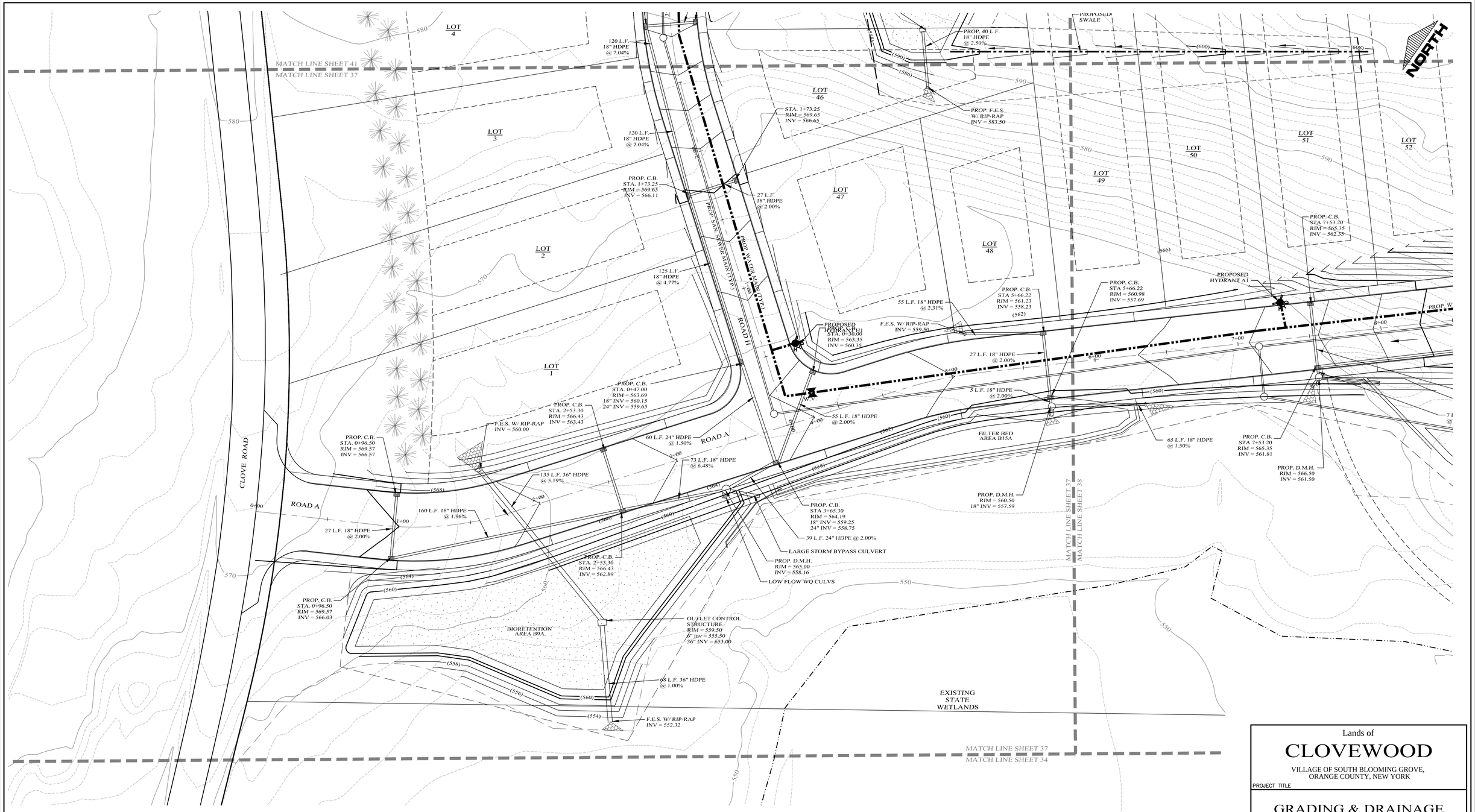
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 36
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

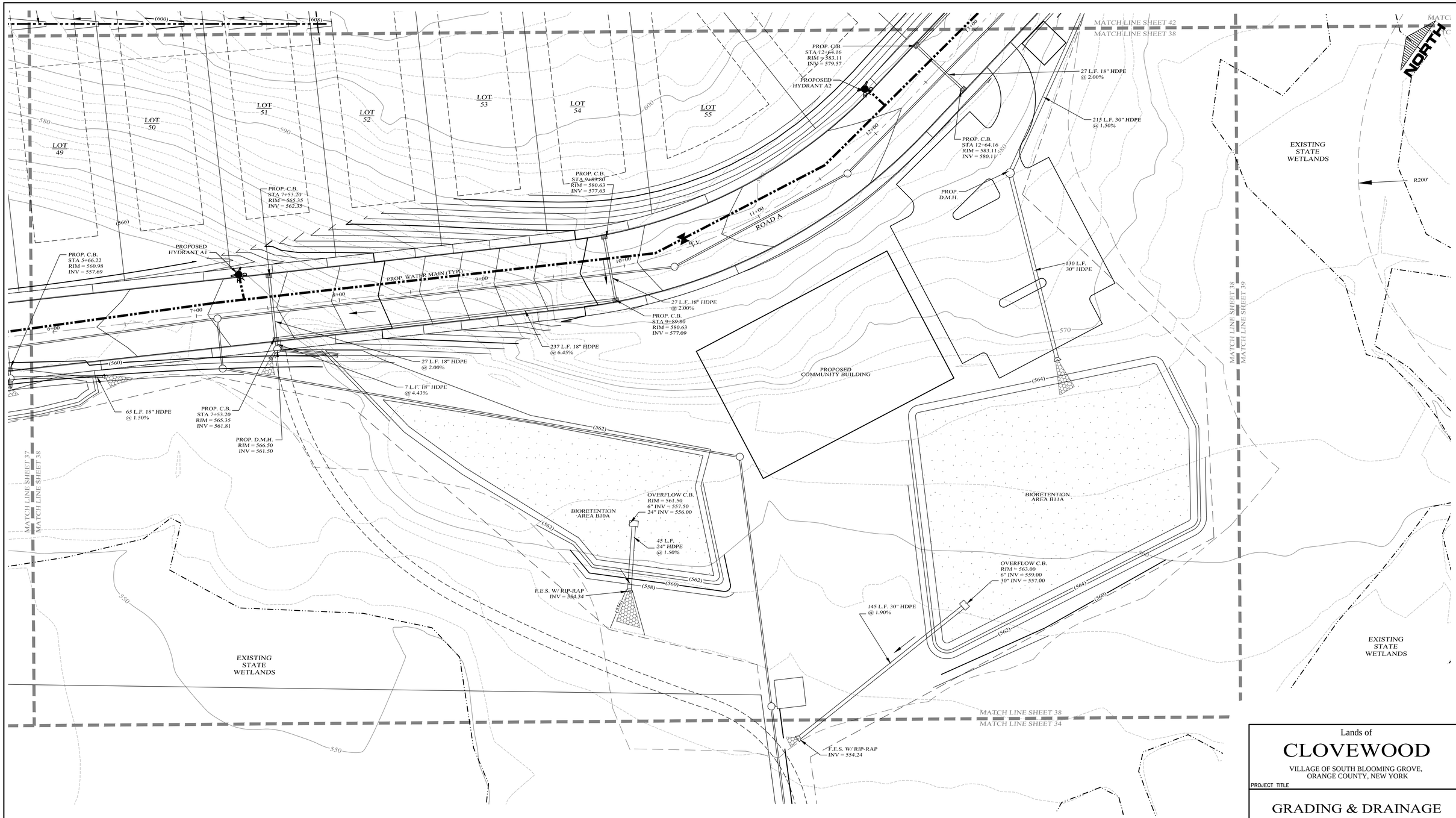
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 37
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE

- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN — F.D. — F.D.
- PROPOSED ROOF DRAIN — R.D. — R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE — W — W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

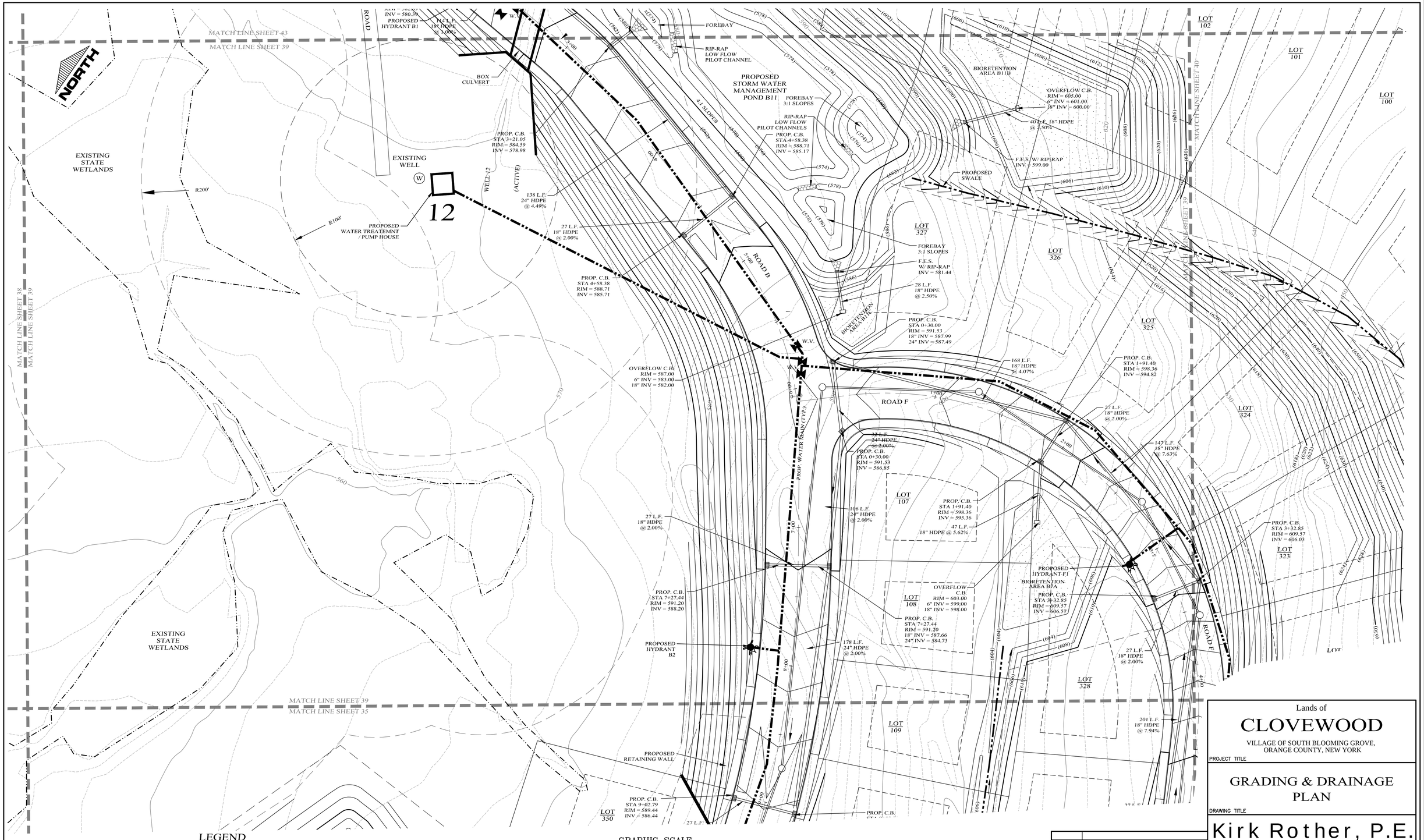
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 38
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05–19–23	REV. PER DEC COMMENTS
10–27–21	REV. PER DEIS COMMENTS
01–29–19	PRELIMINARY DESIGN
03–26–18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

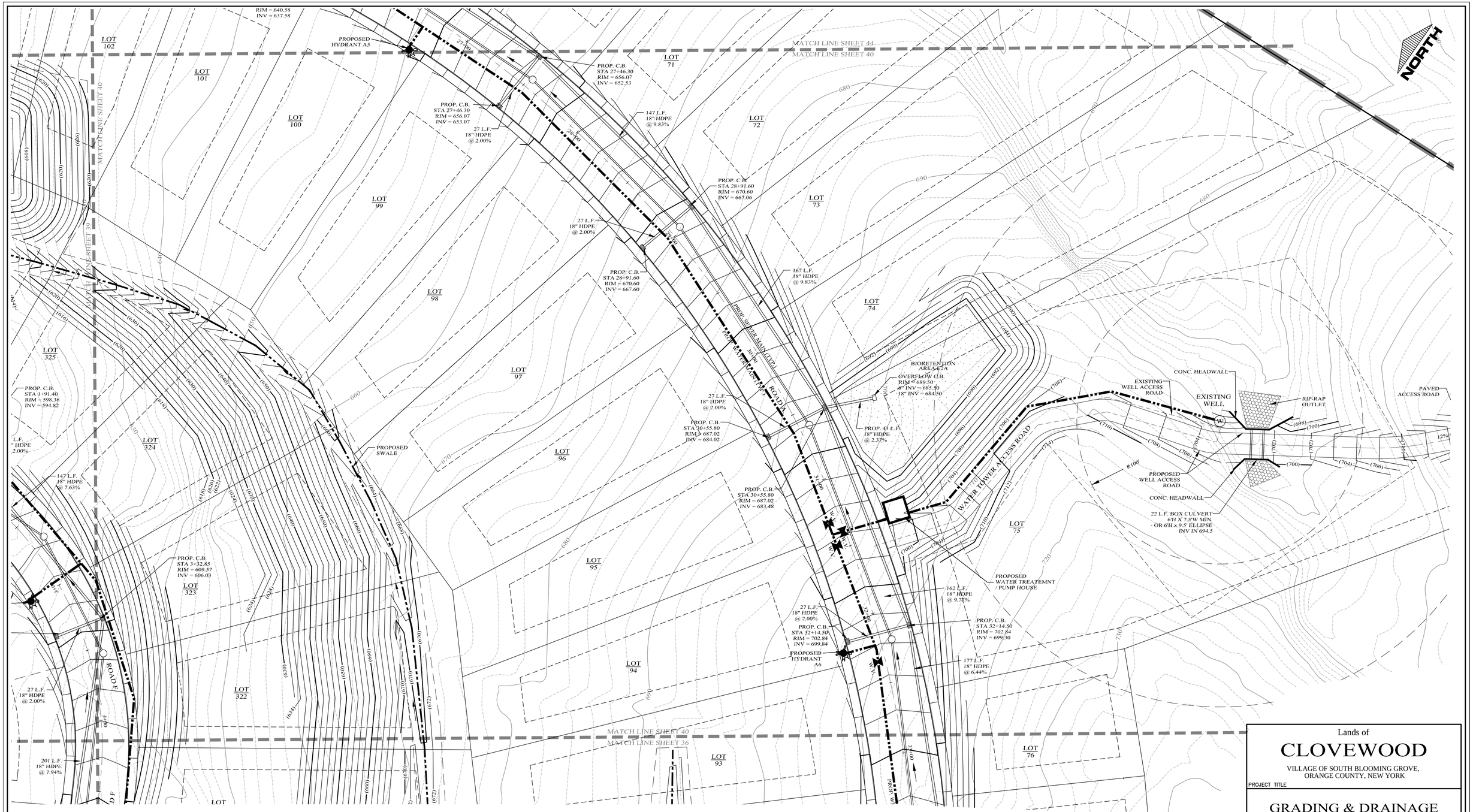
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 39
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	
PROPOSED PROPERTY LINE	
PROPOSED SETBACK LINE	
EXISTING 10' CONTOUR LINE	
EXISTING 2' CONTOUR LINE	
PROPOSED CONTOUR LINE	(600)
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
EXISTING DEC WETLANDS	
EXISTING FEDERAL WETLANDS	
PROPOSED EDGE OF PAVEMENT	
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	
PROPOSED WATER MAIN	
PROPOSED SEWER MAIN	
PROPOSED SEWER MAN HOLE	
PROPOSED SEWER BLDG. LATERAL	
PROPOSED FOOTING DRAIN	F.D. F.D.
PROPOSED ROOF DRAIN	R.D. R.D.
PROPOSED DRAINAGE CULVERT	
PROPOSED DRAINAGE MAN HOLE	
PROPOSED DRAINAGE CATCH BASIN	
PROPOSED DRAINAGE FIELD INLET	
PROPOSED WATER SERVICE	W W
PROPOSED WTR SERV. VALVE BOX	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

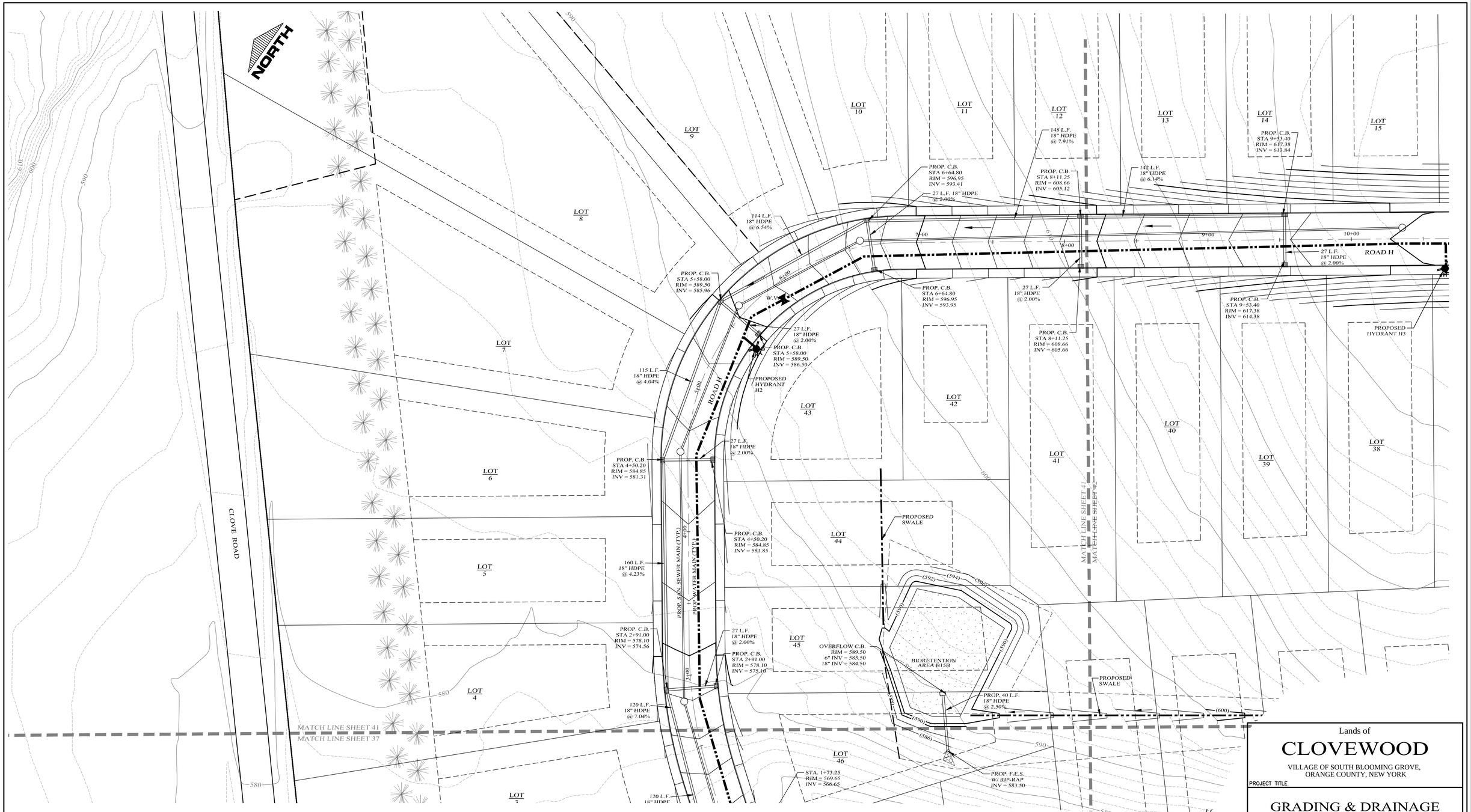
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 40
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN F.D. R.D.
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE W
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 41
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

LOT 13 | LOT 14 | LOT 15 | LOT 16 | LOT 17 | LOT 18 | LOT 19 | LOT 20 | LOT 21 | LOT 22 | LOT 23 | LOT 24 | LOT 25 | LOT 28 | LOT 29 | LOT 30 | LOT 31 | LOT 32 | LOT 33 | LOT 34 | LOT 35 | LOT 36 | LOT 37 | LOT 38 | LOT 39 | LOT 40 | LOT 53 | LOT 56 | LOT 57 | LOT 58

ROAD H

ROAD A

PROP. SAN. SEWER MAIN (TYP.)

PROP. WATER MAIN (TYP.)

9+00 | 10+00 | 11+00 | 12+00 | 13+00 | 14+00 | 15+00 | 16+00 | 17+00

W.V.

142 L.F. 18" HDPE @ 6.14%

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 9+53.40 RIM = 617.38 INV = 613.84

PROP. C.B. STA 9+53.40 RIM = 617.38 INV = 614.38

PROPOSED HYDRANT H3

PROP. C.B. STA 12+48.90 RIM = 616.71 INV = 613.17

PROP. C.B. STA 12+48.90 RIM = 616.71 INV = 613.71

PROP. C.B. STA 14+05.50 RIM = 605.58 INV I = 602.04 INV O = 594.60

156 L.F. 18" HDPE @ 7.13%

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 14+05.50 RIM = 605.58 INV = 602.58

120 L.F. 18" HDPE @ 2.00%

PROP. F.E.S. W/ RIP-RAP INV = 597.00

85 L.F. 18" HDPE @ 1.72%

103 L.F. 18" HDPE @ 3.00%

PROP. C.B. STA 15+97.10 RIM = 593.59 INV = 590.05

27 L.F. 18" HDPE @ 2.00%

182 L.F. 18" HDPE @ 2.60%

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 17+78.90 RIM = 588.85 INV = 585.85

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 15+97.10 RIM = 593.59 INV = 590.59

PROP. D.M.H. STA 14+92.75 RIM = 599.64 INV = 593.14

PROPOSED HYDRANT H4

184 L.F. 24" HDPE @ 2.00%

PROPOSED HYDRANT A3

16 L.F. 24" HDPE W/ F.E.S. & RIP-RAP

27 L.F. 30" HDPE @ 1.50%

PROP. C.B. STA 15+72.9 RIM = 580.27 24" INV = 575.79 30" INV = 575.29

PROP. C.B. STA 15+72.9 RIM = 580.27 INV = 574.88

157 L.F. 30" HDPE @ 1.50%

PROP. C.B. STA 14+13.15 RIM = 581.62 INV = 576.57

140 L.F. 18" HDPE @ 2.00%

45 L.F. 18" HDPE @ 5.00%

PROP. C.B. STA 14+13.15 RIM = 581.62 INV = 576.78

6 L.F. 18" HDPE @ 2.00%

PROP. D.M.H. RIM = 582.50 18" INV = 576.03 30" INV = 572.53

PROP. C.B. STA 12+94.16 RIM = 583.11 INV = 579.57

PROPOSED HYDRANT A2

27 L.F. 18" HDPE @ 2.00%

PROPOSED SWALE

(600) | (602) | (598) | (608)

MATCH LINE SHEET 41
MATCH LINE SHEET 42

MATCH LINE SHEET 42
MATCH LINE SHEET 38

MATCH LINE SHEET 43
MATCH LINE SHEET 39

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE

- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN (F.D.)
- PROPOSED ROOF DRAIN (R.D.)
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE (W)
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

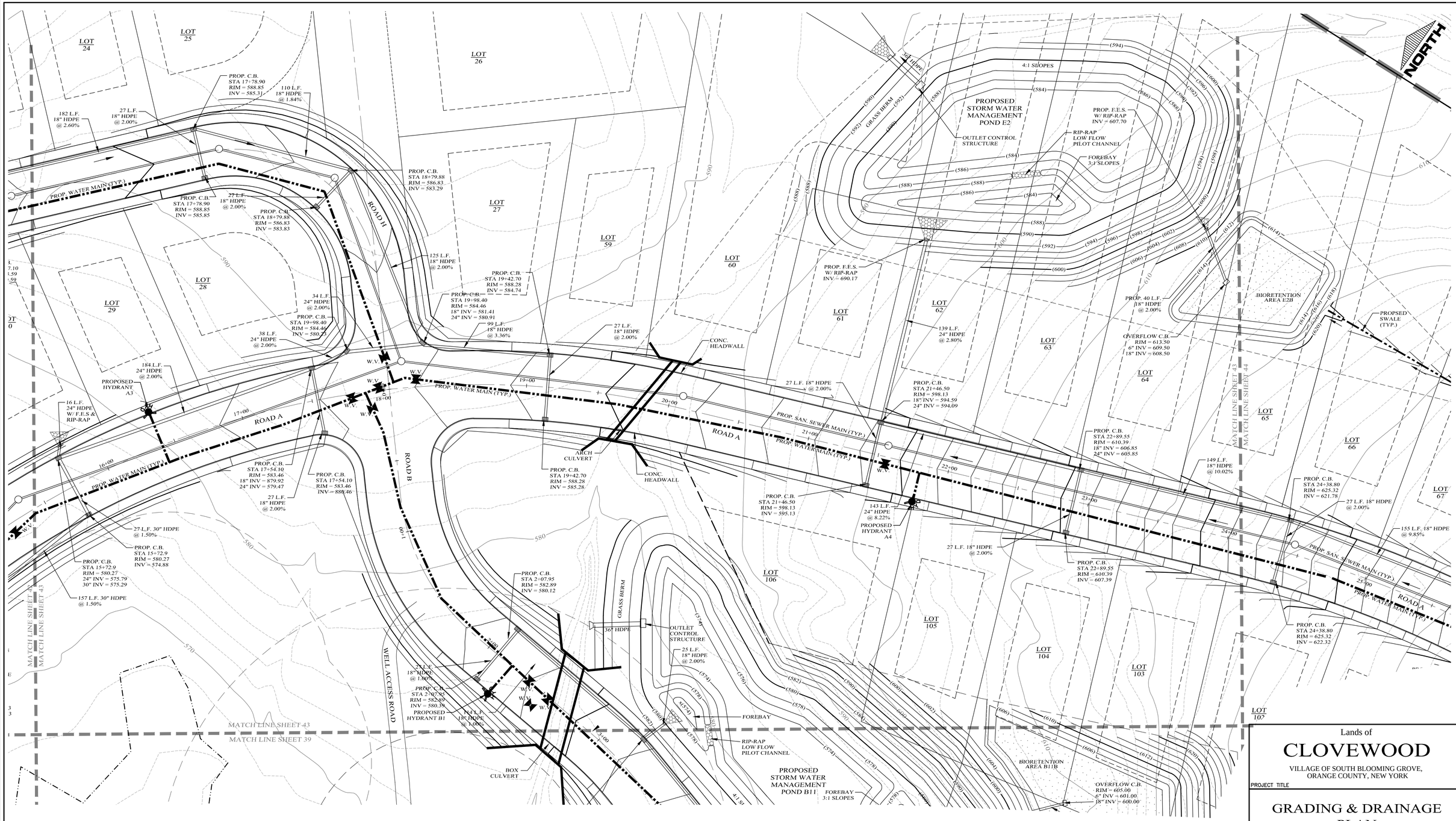
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 42
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING PROPERTY LINE	PROPOSED WATER MAIN
PROPOSED PROPERTY LINE	PROPOSED SEWER MAIN
PROPOSED SETBACK LINE	PROPOSED SEWER MAN HOLE
EXISTING 10' CONTOUR LINE	PROPOSED SEWER BLDG. LATERAL
EXISTING 2' CONTOUR LINE	PROPOSED FOOTING DRAIN
PROPOSED CONTOUR LINE (600)	PROPOSED ROOF DRAIN
PROPOSED EDGE OF PAVEMENT	PROPOSED DRAINAGE CULVERT
PROPOSED ROAD CENTERLINE	PROPOSED DRAINAGE MAN HOLE
EXISTING EDGE OF PAVEMENT	PROPOSED DRAINAGE CATCH BASIN
EXISTING DEC WETLANDS	PROPOSED DRAINAGE FIELD INLET
EXISTING FEDERAL WETLANDS	PROPOSED WATER SERVICE
PROPOSED EDGE OF PAVEMENT	PROPOSED WTR SERV. VALVE BOX
PROPOSED ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
PROPOSED SWALE	

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 43
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

4:1 SLOPES

PROPOSED STORM WATER MANAGEMENT POND E2

PROP. E.E.S. W/ RIP-RAP INV = 607.70

OUTLET CONTROL STRUCTURE

RIP-RAP LOW FLOW PILOT CHANNEL

FOREBAY 3:1 SLOPES

PROP. 40 L.F. 18" HDPE @ 2.00%

BIORETENTION AREA E2B

OVERFLOW C.B. RIM = 613.50 6" INV = 609.50 18" INV = 608.50

PROPSED SWALE (TYP.)

MATCH LINE SHEET 43

MATCH LINE SHEET 44

LOT 63

LOT 64

LOT 65

LOT 66

LOT 67

LOT 68

LOT 69

LOT 70

LOT 71

LOT 72

LOT 104

LOT 103

LOT 102

LOT 101

LOT 100

PROP. C.B. STA 22+89.55 RIM = 610.39 18" INV = 606.85 24" INV = 605.85

149 L.F. 18" HDPE @ 10.02%

PROP. C.B. STA 24+38.80 RIM = 625.32 INV = 621.78

27 L.F. 18" HDPE @ 2.00%

155 L.F. 18" HDPE @ 9.85%

PROP. SAN. SEWER MAIN (TYP.)

PROP. WATER MAIN (TYP.)

ROAD A

PROP. C.B. STA 22+89.55 RIM = 610.39 INV = 607.39

PROP. C.B. STA 24+38.80 RIM = 625.32 INV = 622.32

PROP. C.B. STA 25+91.45 RIM = 640.58 INV = 637.04

27 L.F. 18" HDPE @ 2.00%

PROP. C.B. STA 25+91.45 RIM = 640.58 INV = 637.58

157 L.F. 18" HDPE @ 9.87%

PROPOSED HYDRANT A5

PROP. C.B. STA 27+46.30 RIM = 656.07 INV = 652.53

PROP. C.B. STA 27+46.30 RIM = 656.07 INV = 653.07

147 L.F. 18" HDPE @ 9.83%

27 L.F. 18" HDPE

BIORETENTION AREA B11B

OVERFLOW C.B. RIM = 605.00 6" INV = 601.00 18" INV = 600.00

MATCH LINE SHEET 40

MATCH LINE SHEET 44

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED SWALE
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- PROPOSED SEWER MAN HOLE
- PROPOSED SEWER BLDG. LATERAL
- PROPOSED FOOTING DRAIN F.D.
- PROPOSED ROOF DRAIN R.D.
- PROPOSED DRAINAGE CULVERT
- PROPOSED DRAINAGE MAN HOLE
- PROPOSED DRAINAGE CATCH BASIN
- PROPOSED DRAINAGE FIELD INLET
- PROPOSED WATER SERVICE W
- PROPOSED WTR SERV. VALVE BOX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

GRADING & DRAINAGE PLAN

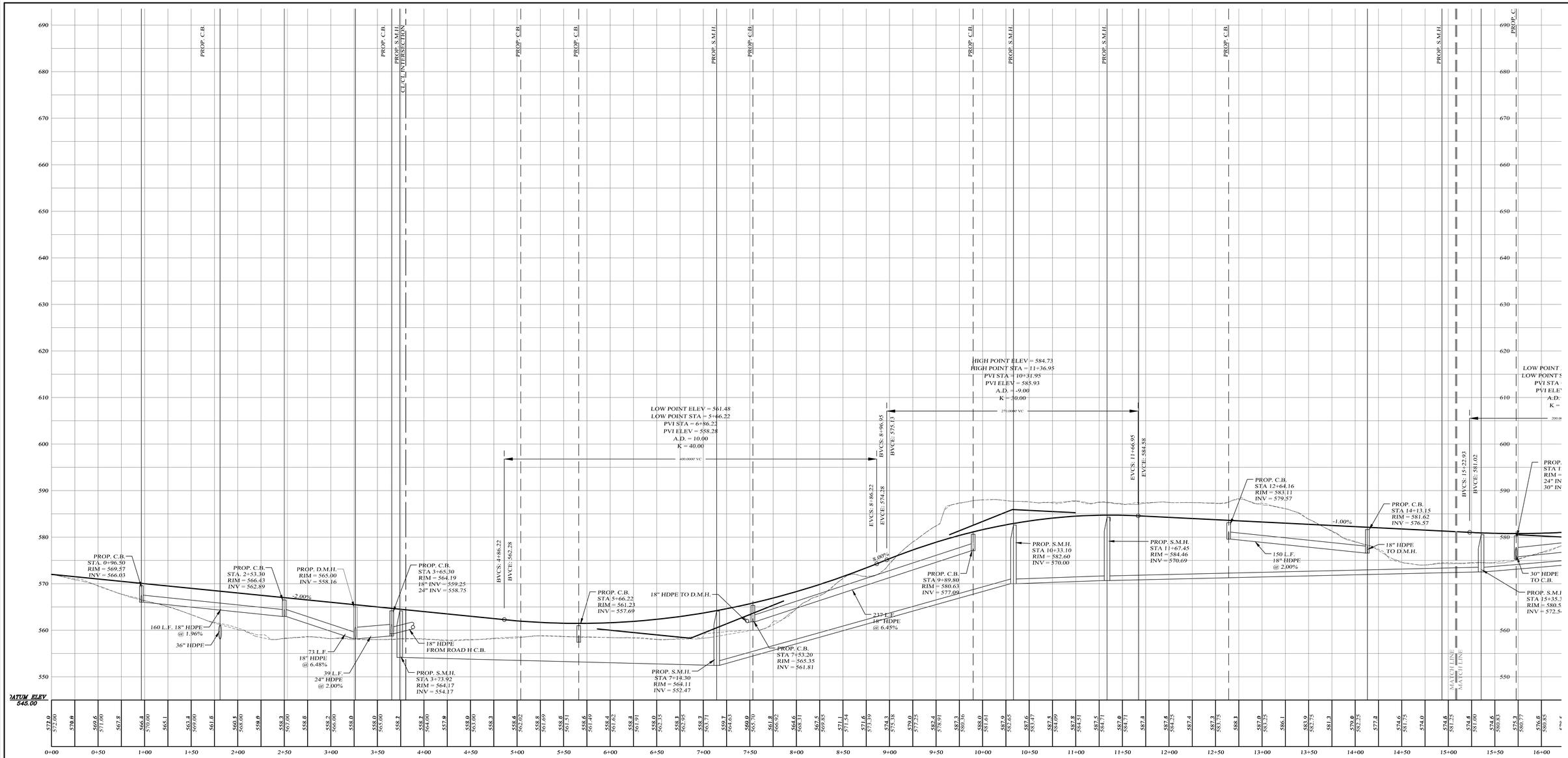
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	G 44
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD A
PROFILE

DRAWING TITLE

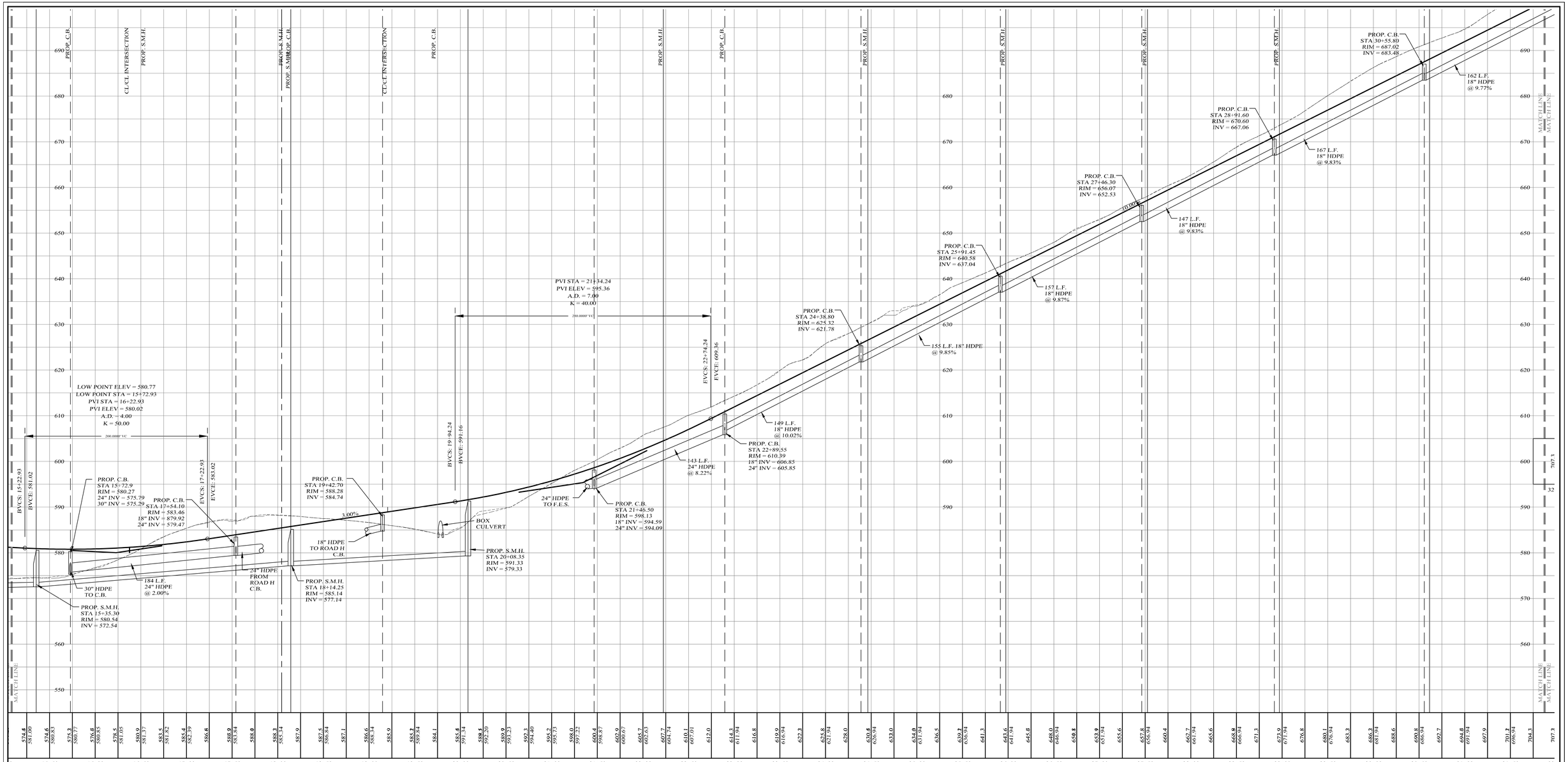
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P A1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD A
PROFILE

DRAWING TITLE

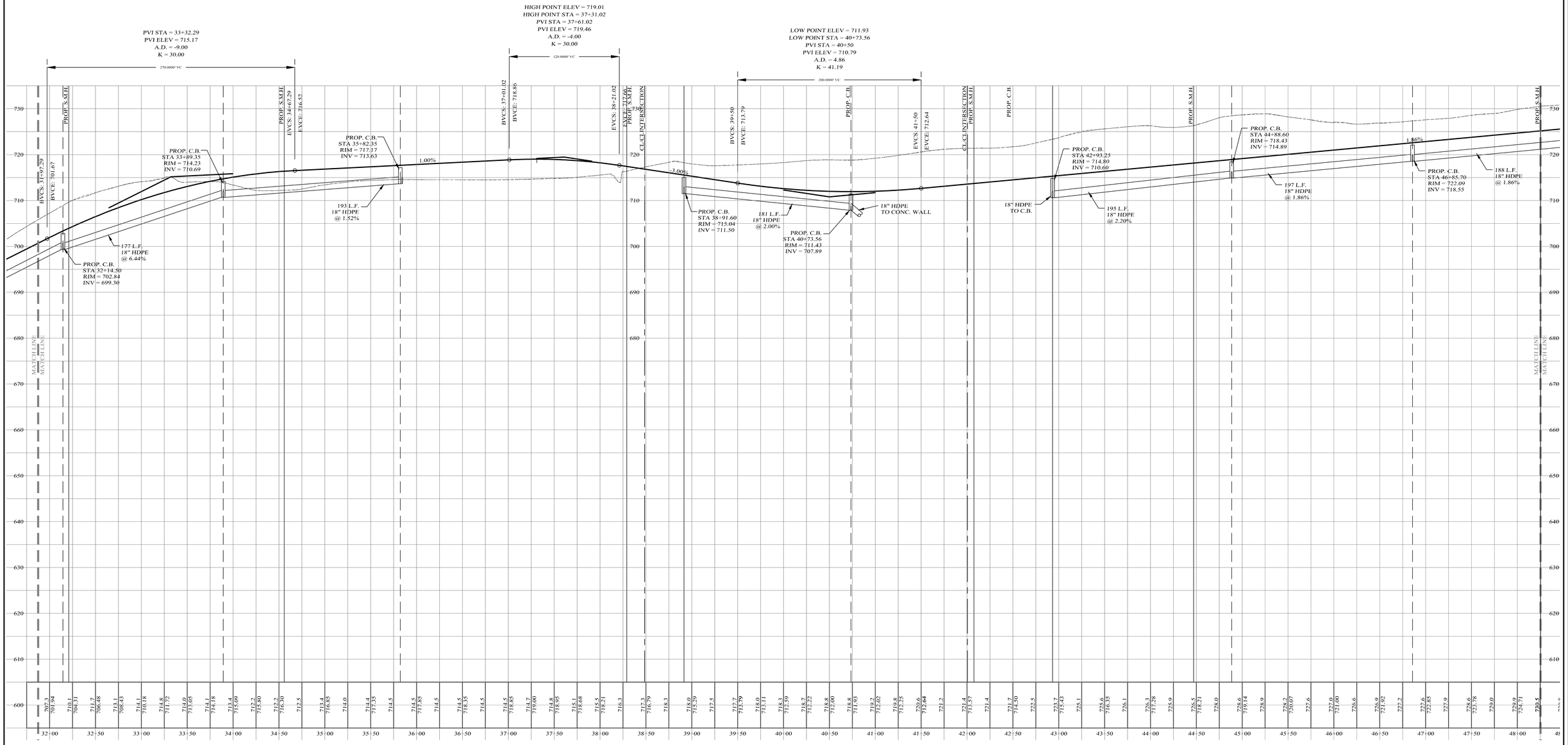
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P A2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD A
PROFILE

DRAWING TITLE

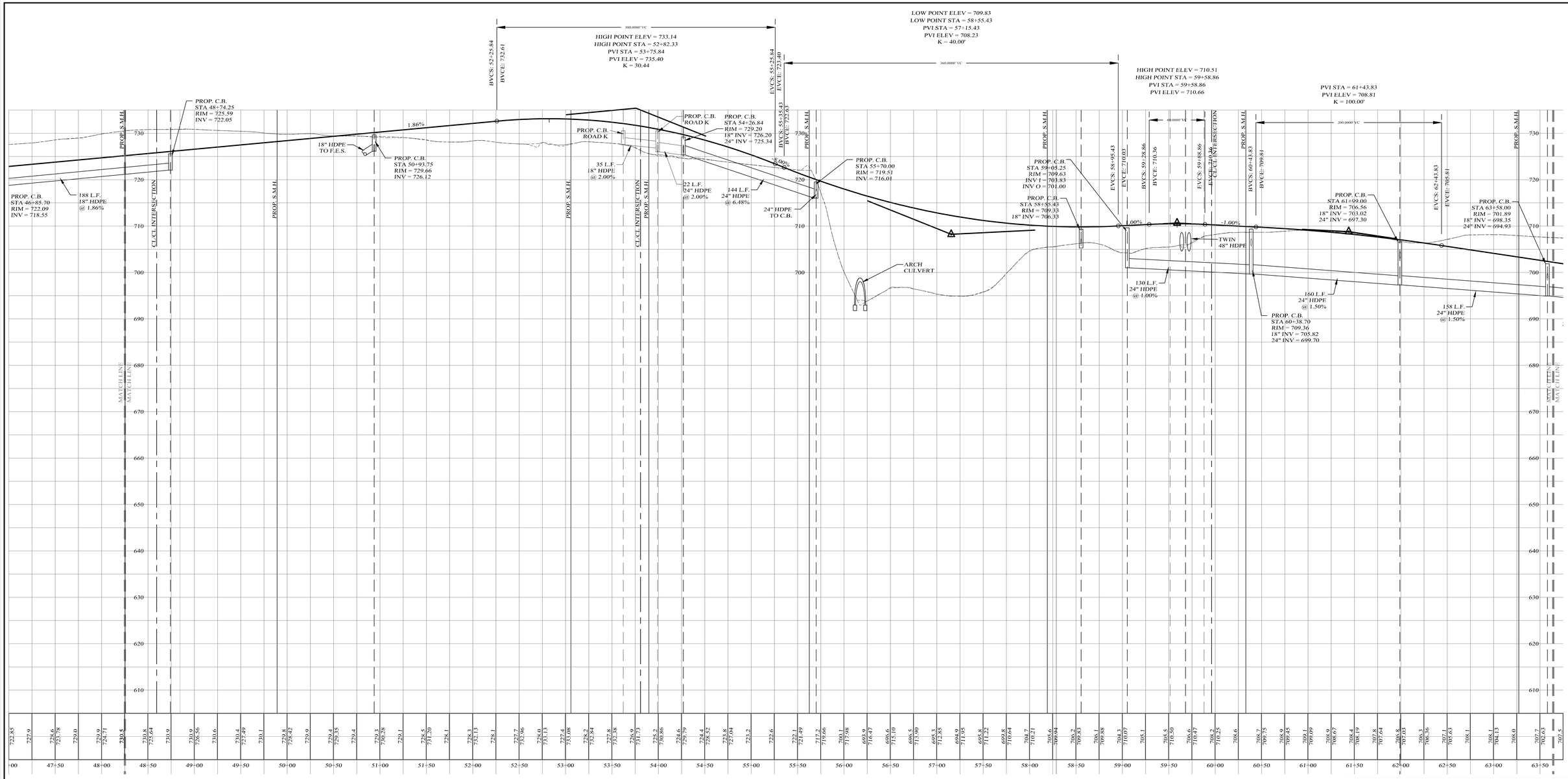
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P A3
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE ----------
PROPOSED GRADE LINE ——————

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD A
PROFILE

DRAWING TITLE

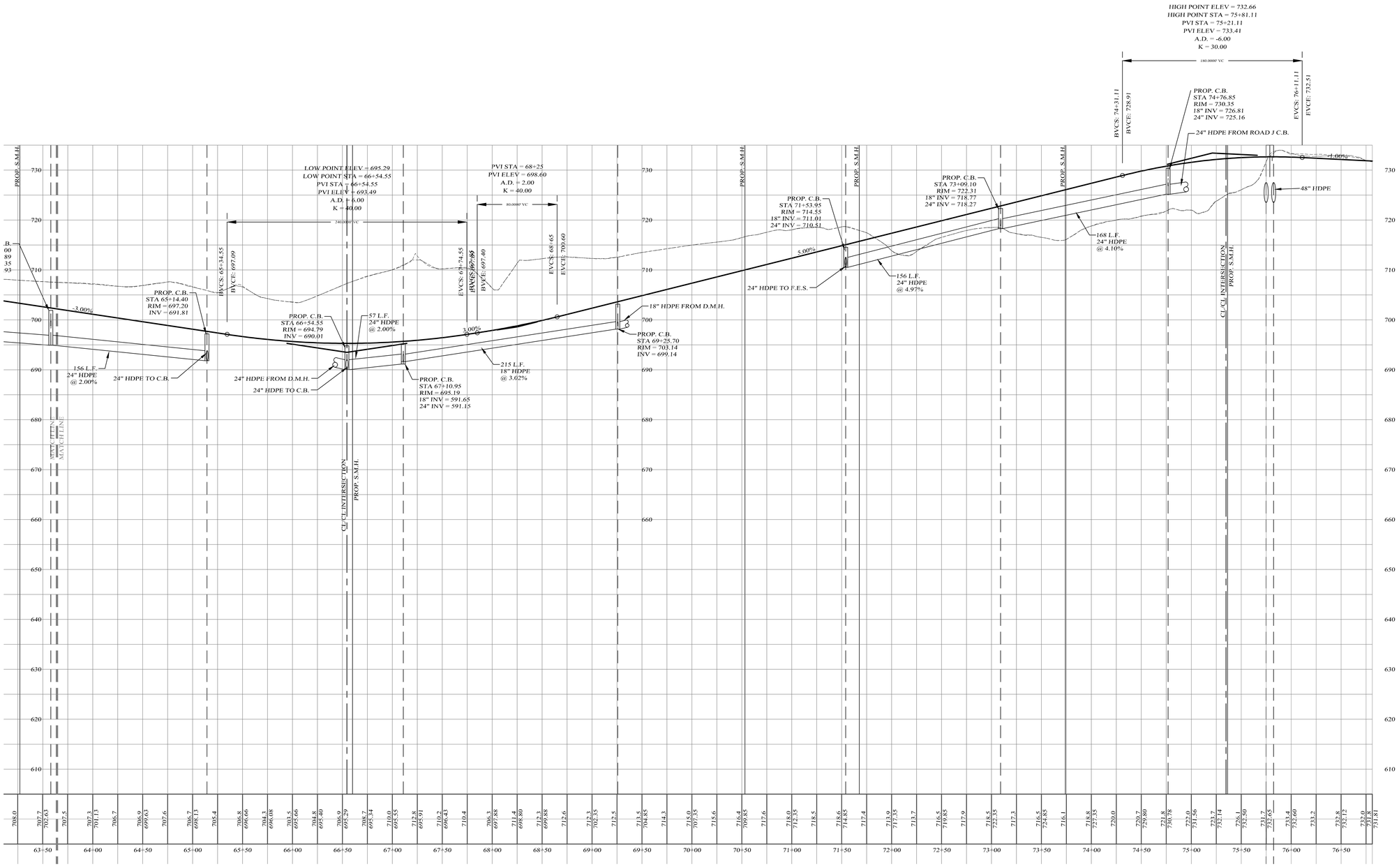
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P A4
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD A PROFILE

DRAWING TITLE

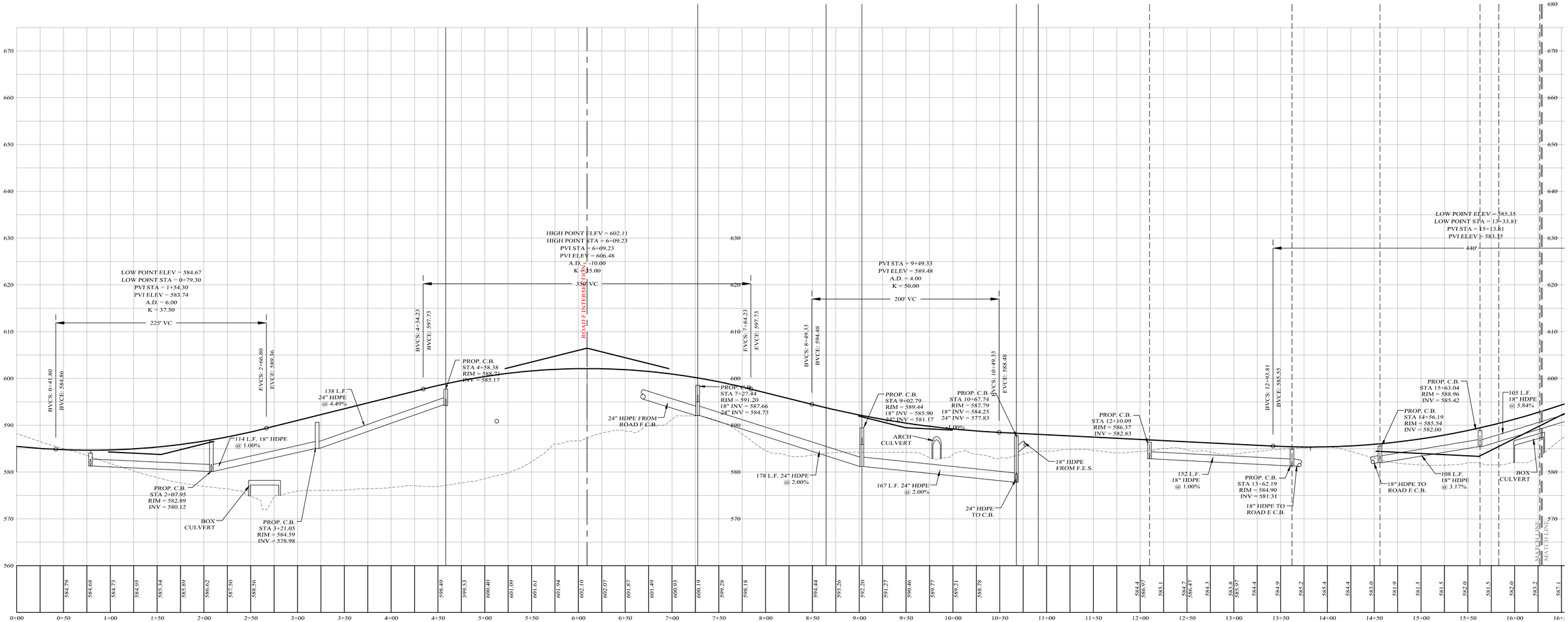
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P A5
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD B
PROFILE

DRAWING TITLE

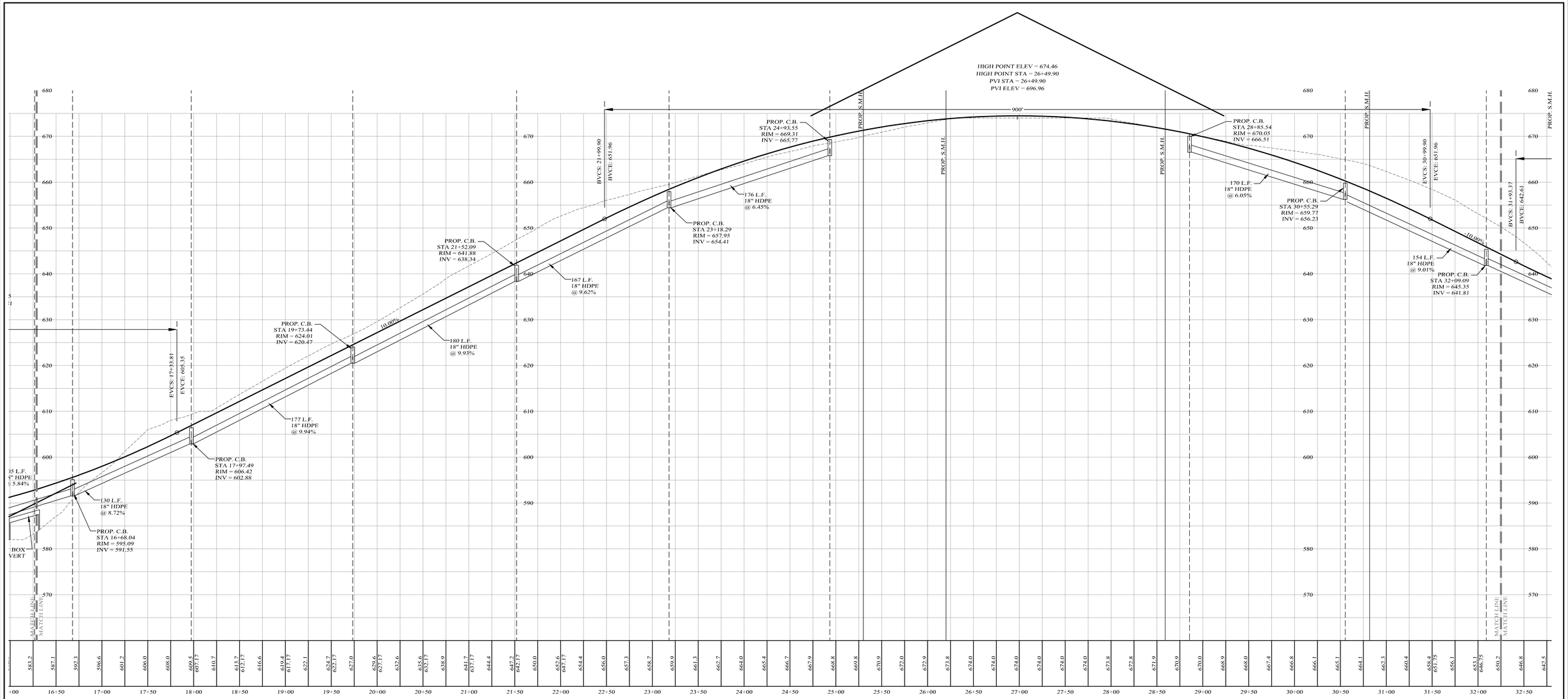
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P B1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE ----------
PROPOSED GRADE LINE ——————

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD B
PROFILE

DRAWING TITLE

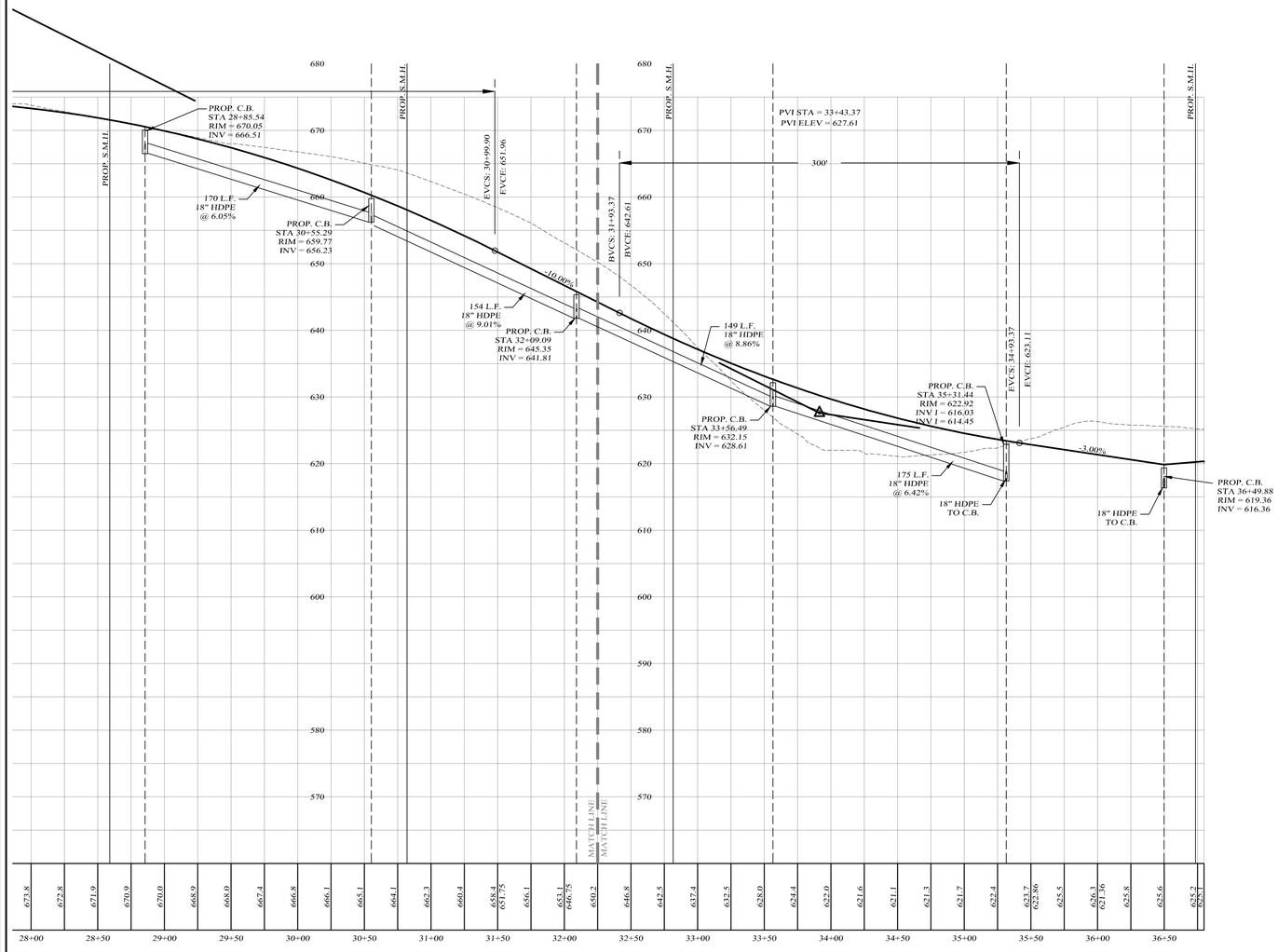
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P B2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD B
PROFILE

DRAWING TITLE

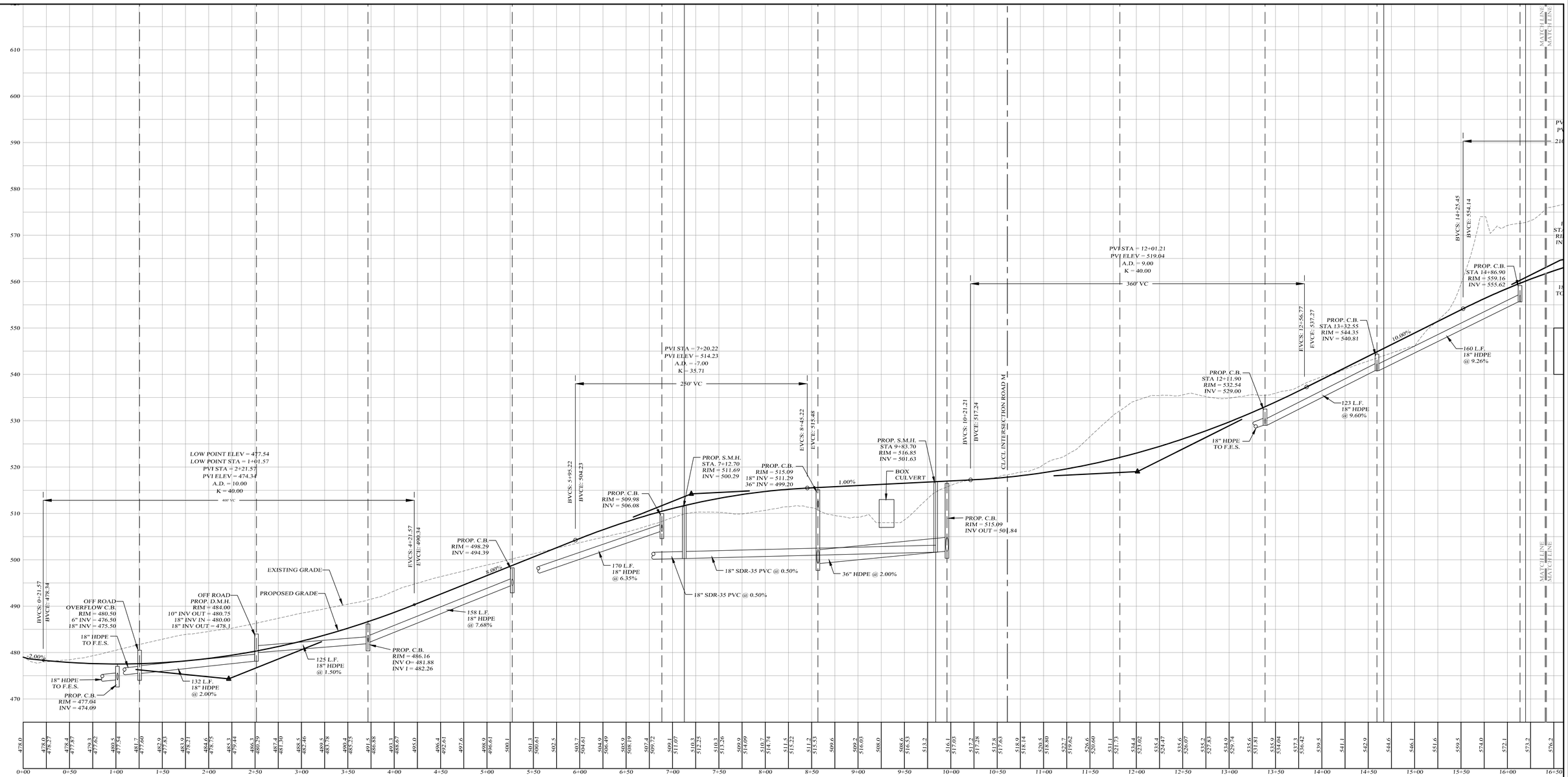
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P B3
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD C
PROFILE

DRAWING TITLE

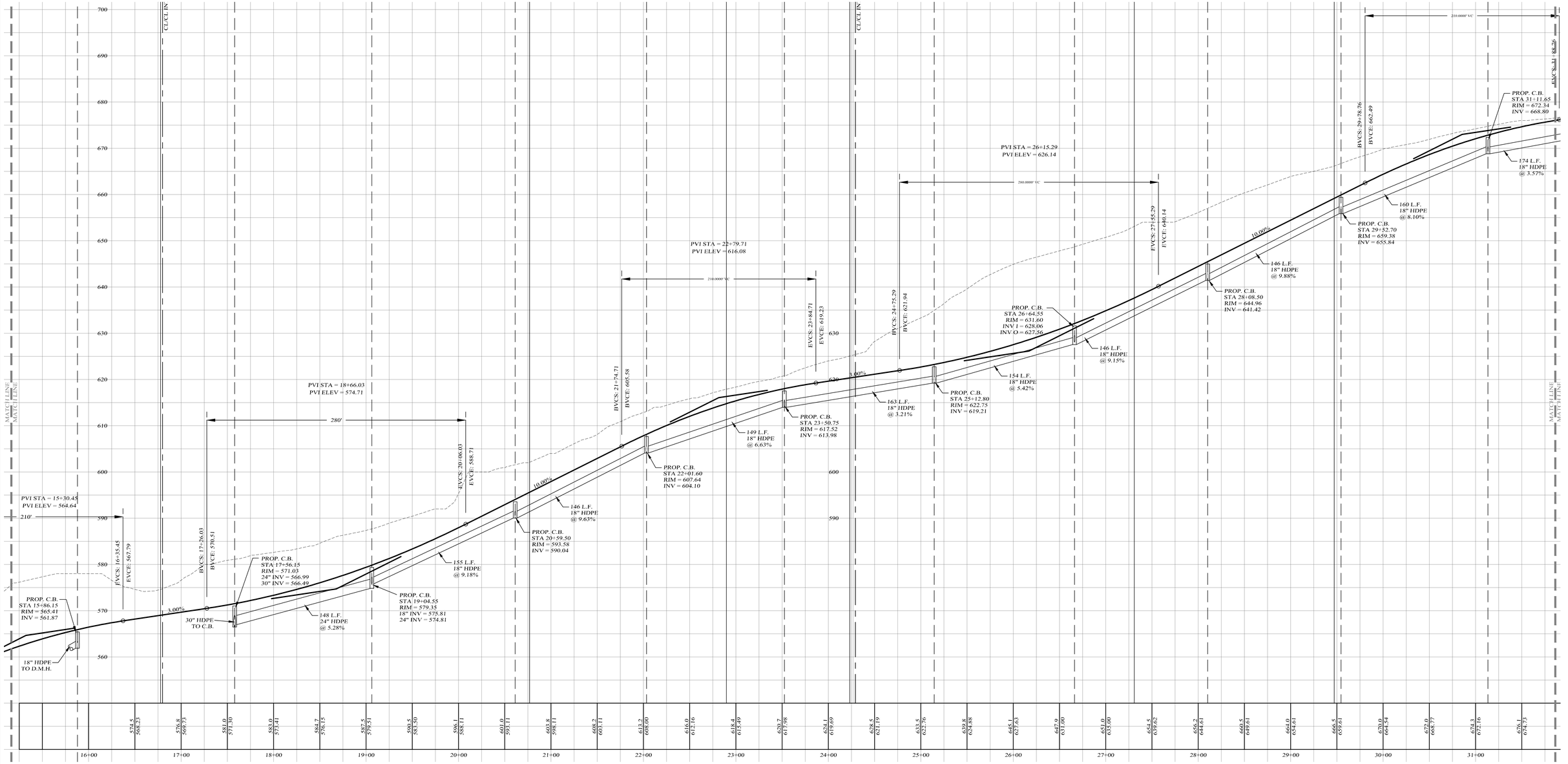
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P C1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD C
PROFILE

DRAWING TITLE

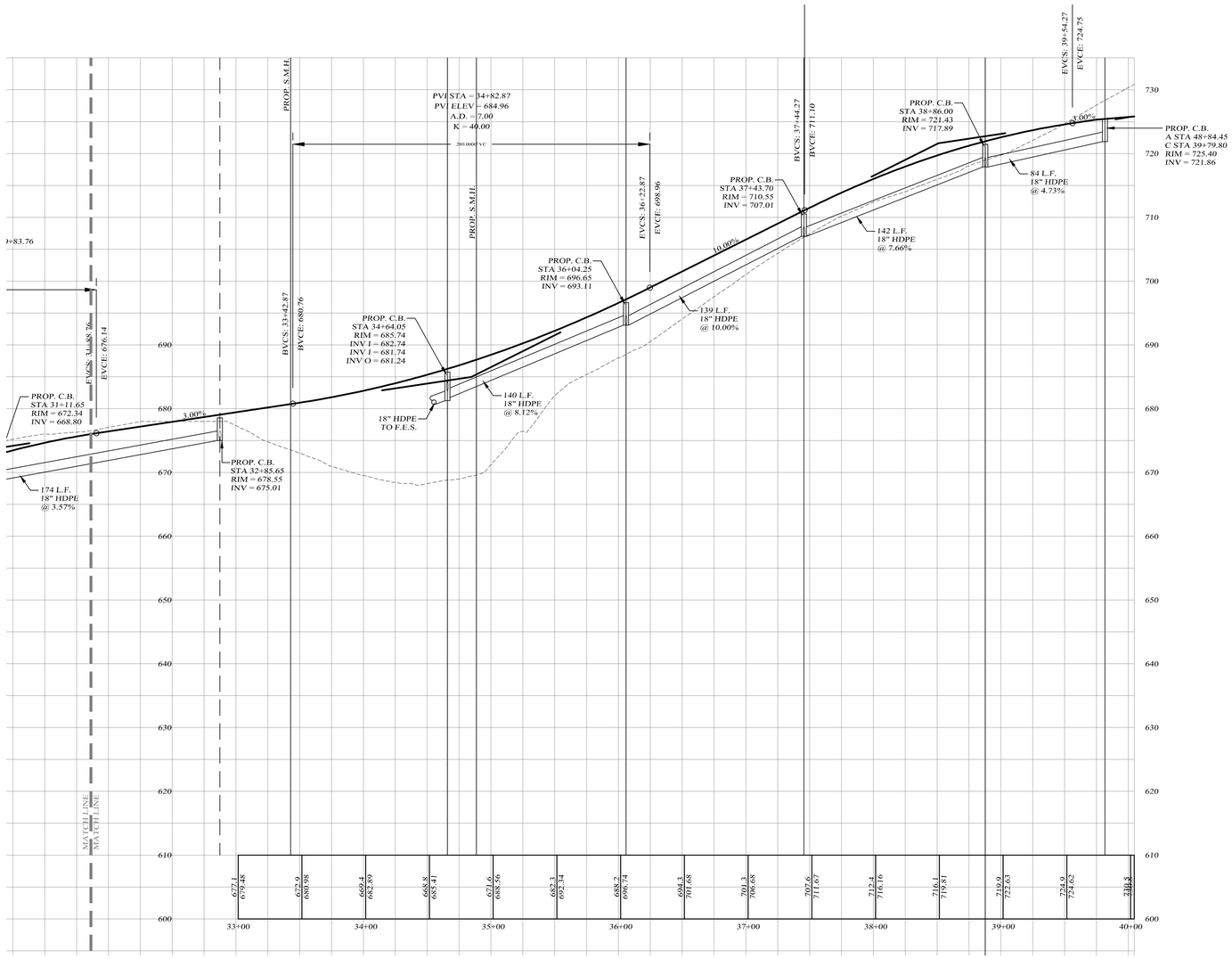
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P C2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD C
PROFILE

DRAWING TITLE

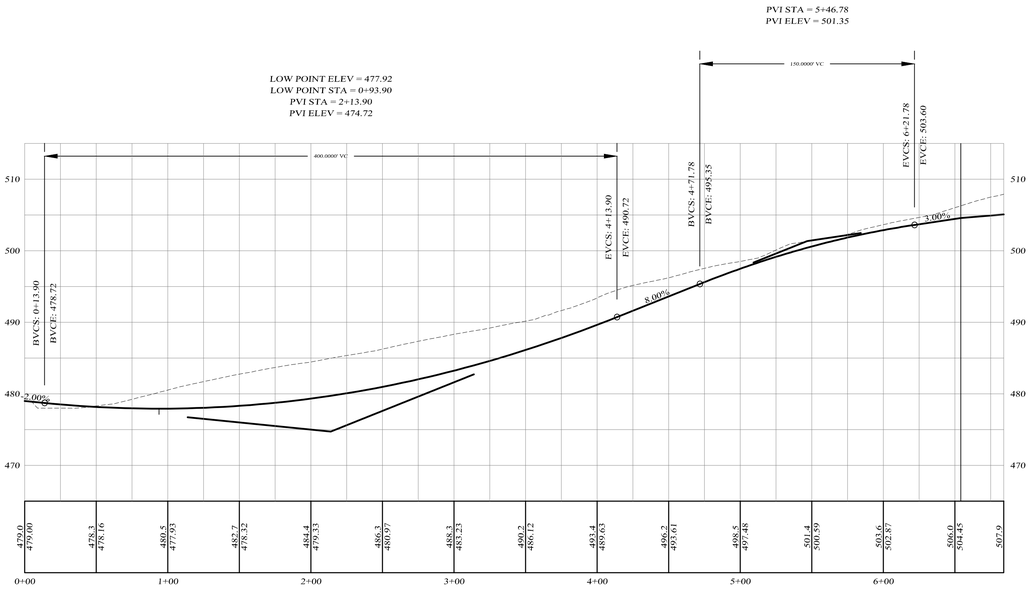
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

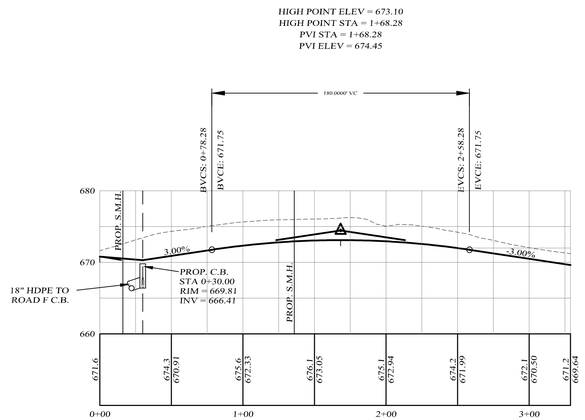
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P C3
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD D PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'



CENTERLINE ROAD G PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD D & G PROFILE

DRAWING TITLE

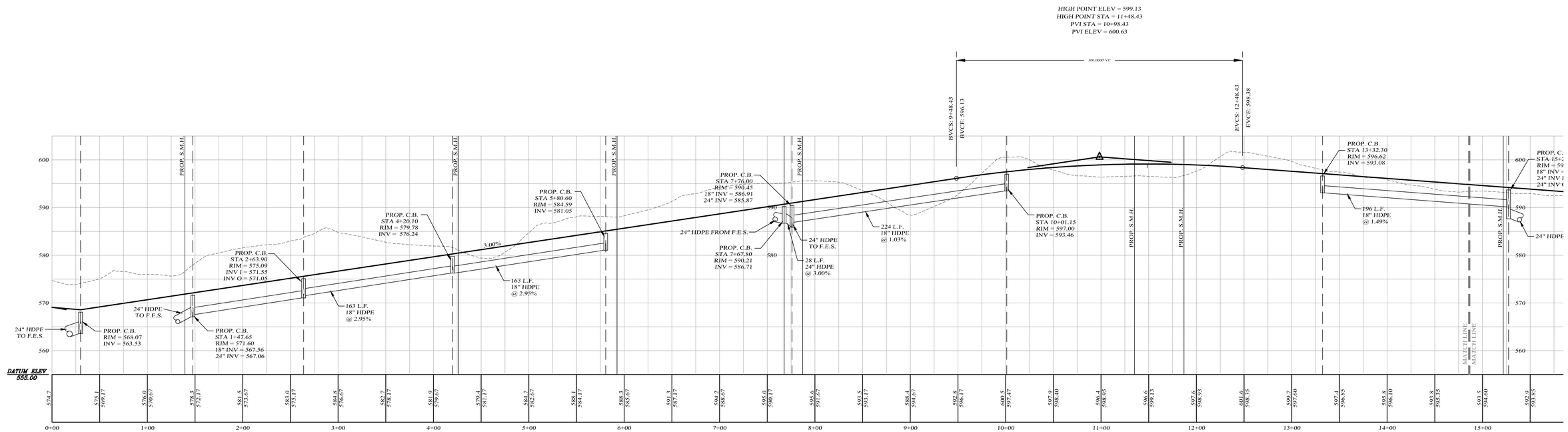
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P DG1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD E
PROFILE

DRAWING TITLE

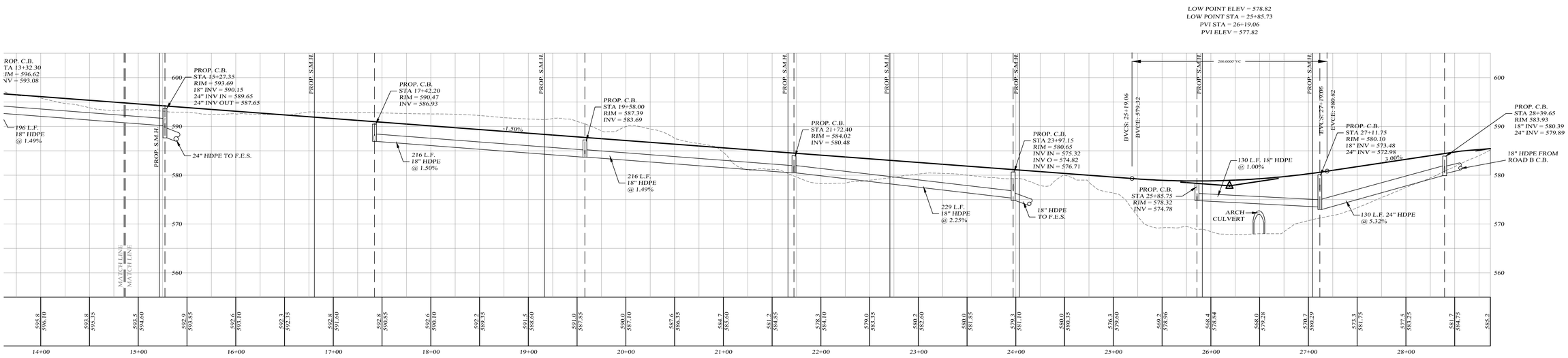
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P E1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD E
PROFILE

DRAWING TITLE

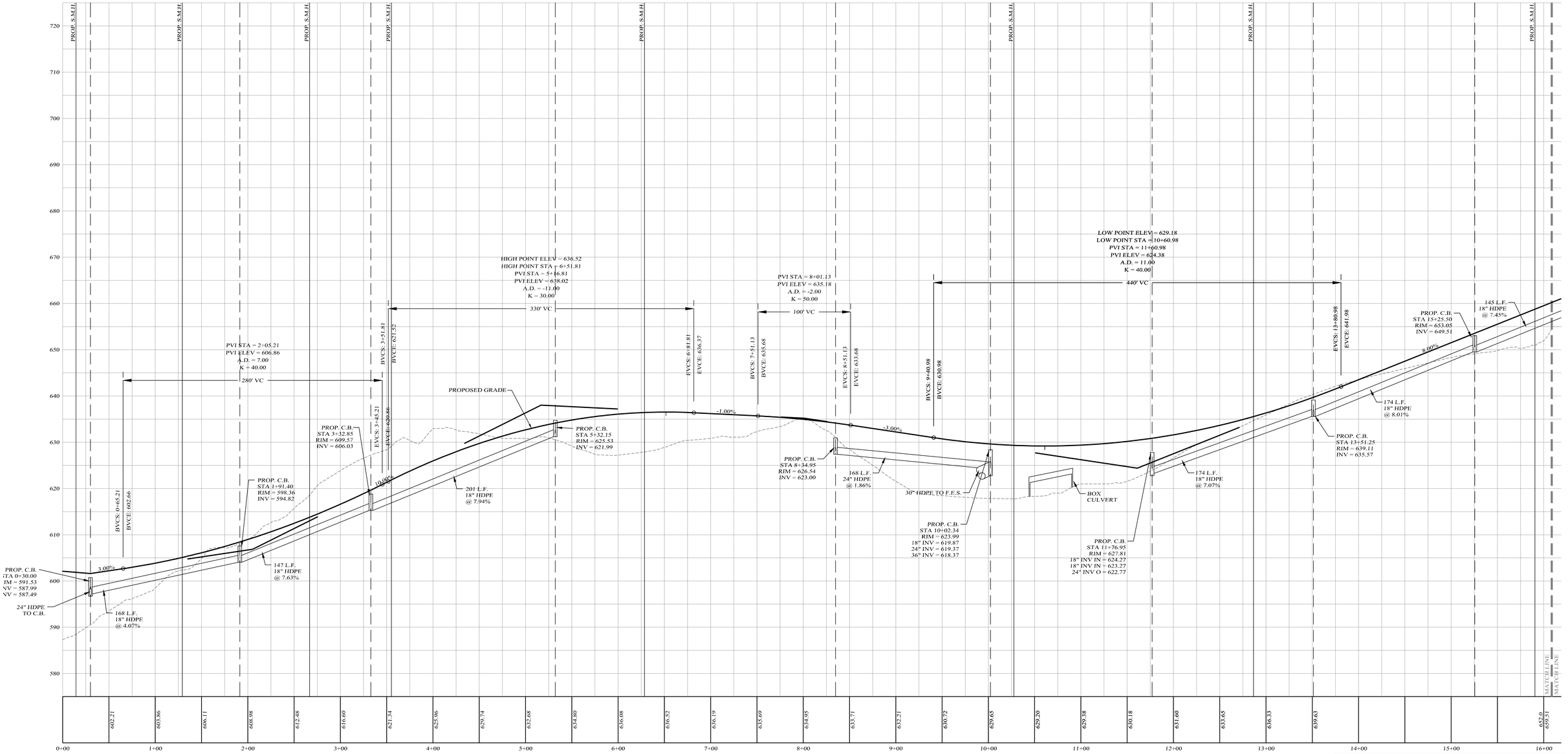
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P E2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD F
PROFILE

DRAWING TITLE

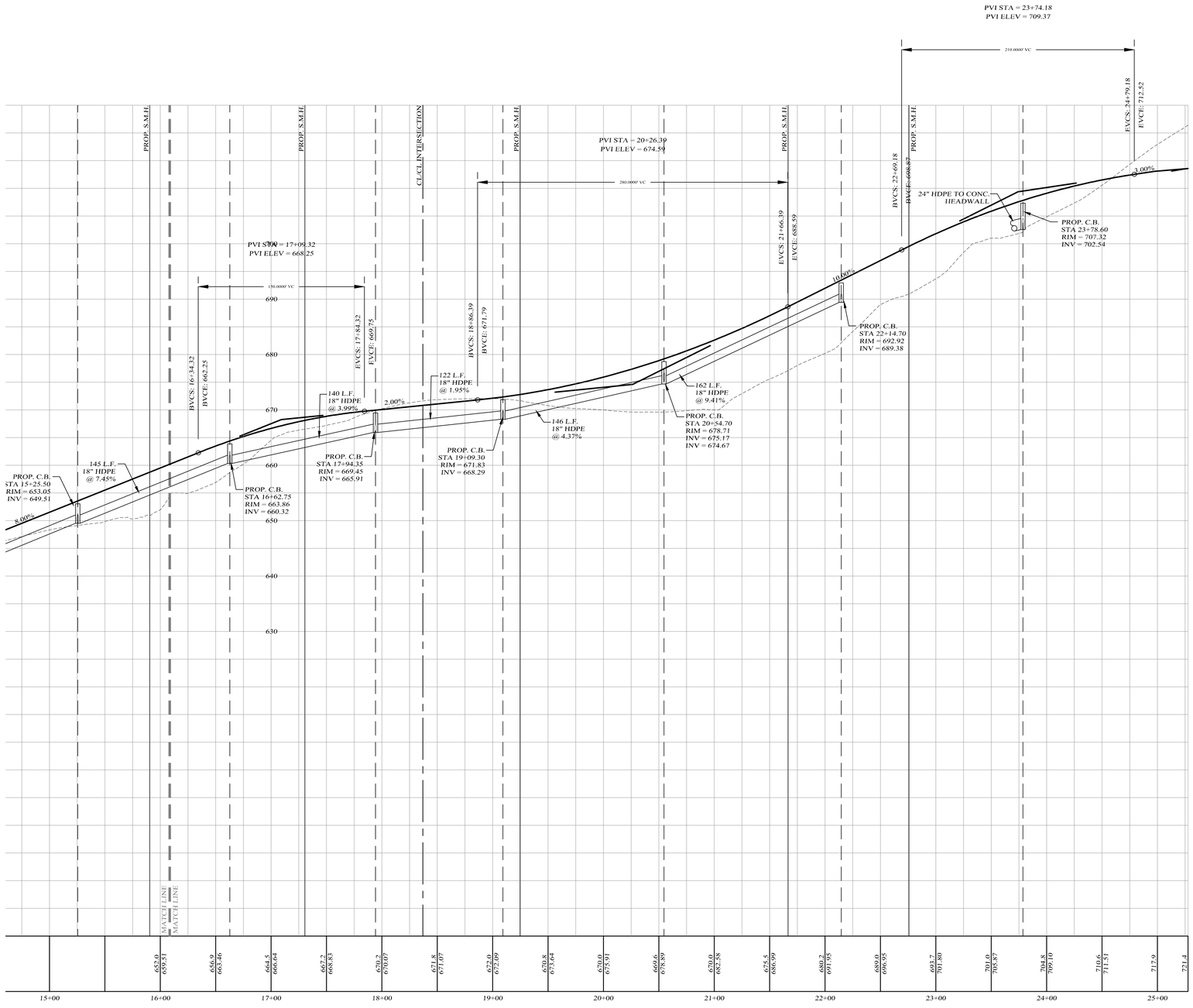
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P F1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD F
PROFILE

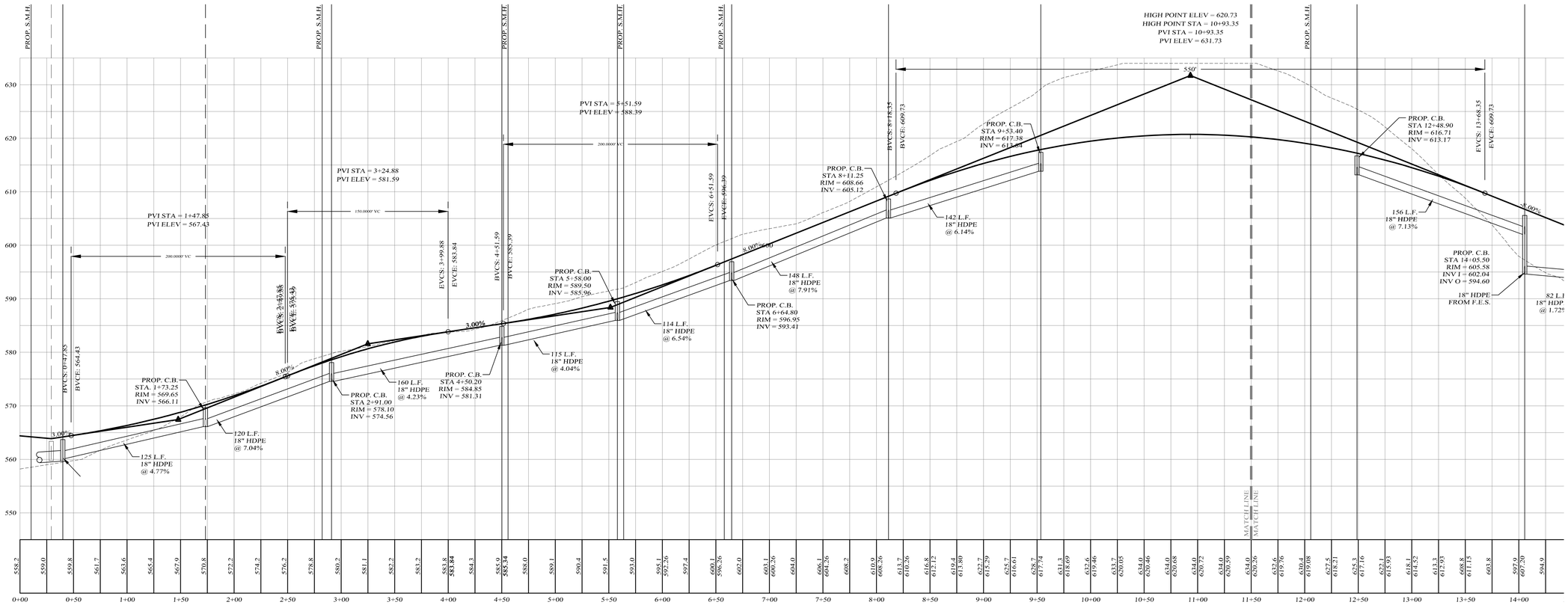
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P F2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD H
PROFILE

DRAWING TITLE

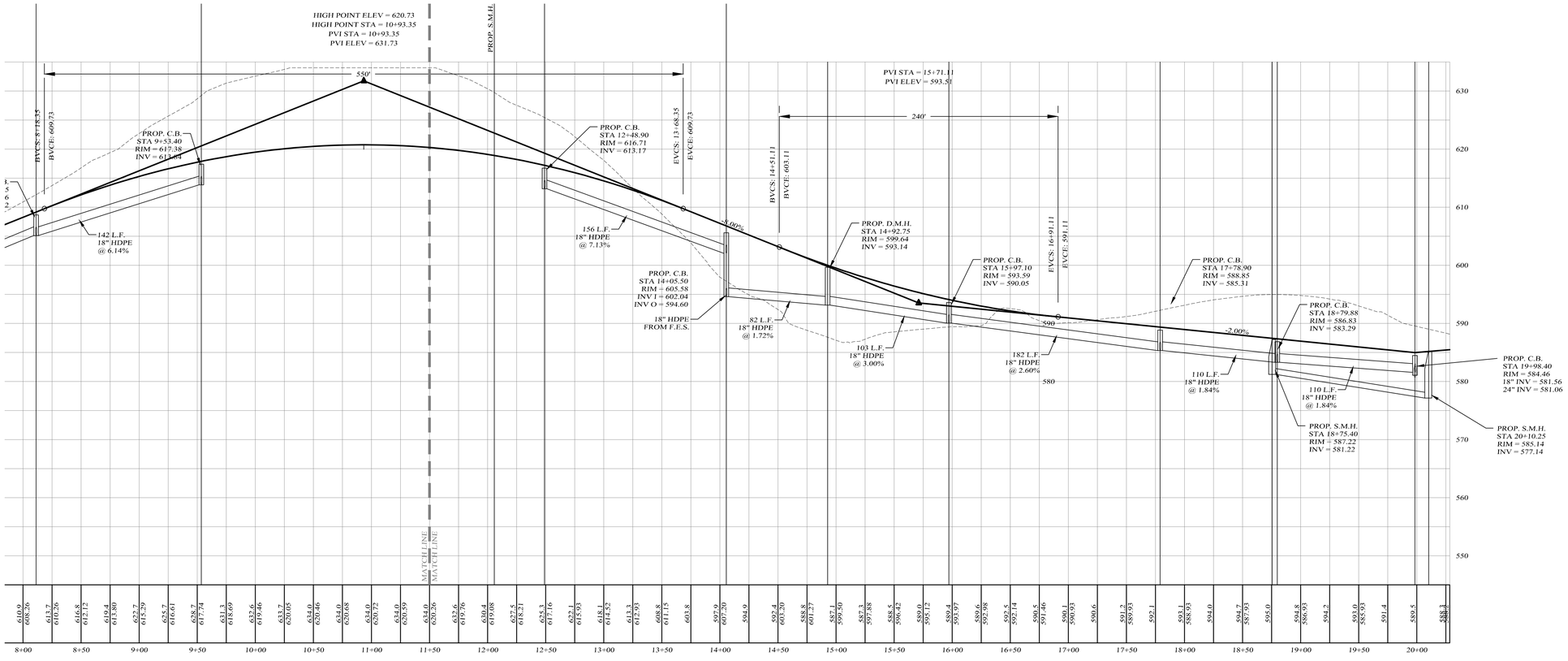
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	D.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P H1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD H
PROFILE

DRAWING TITLE

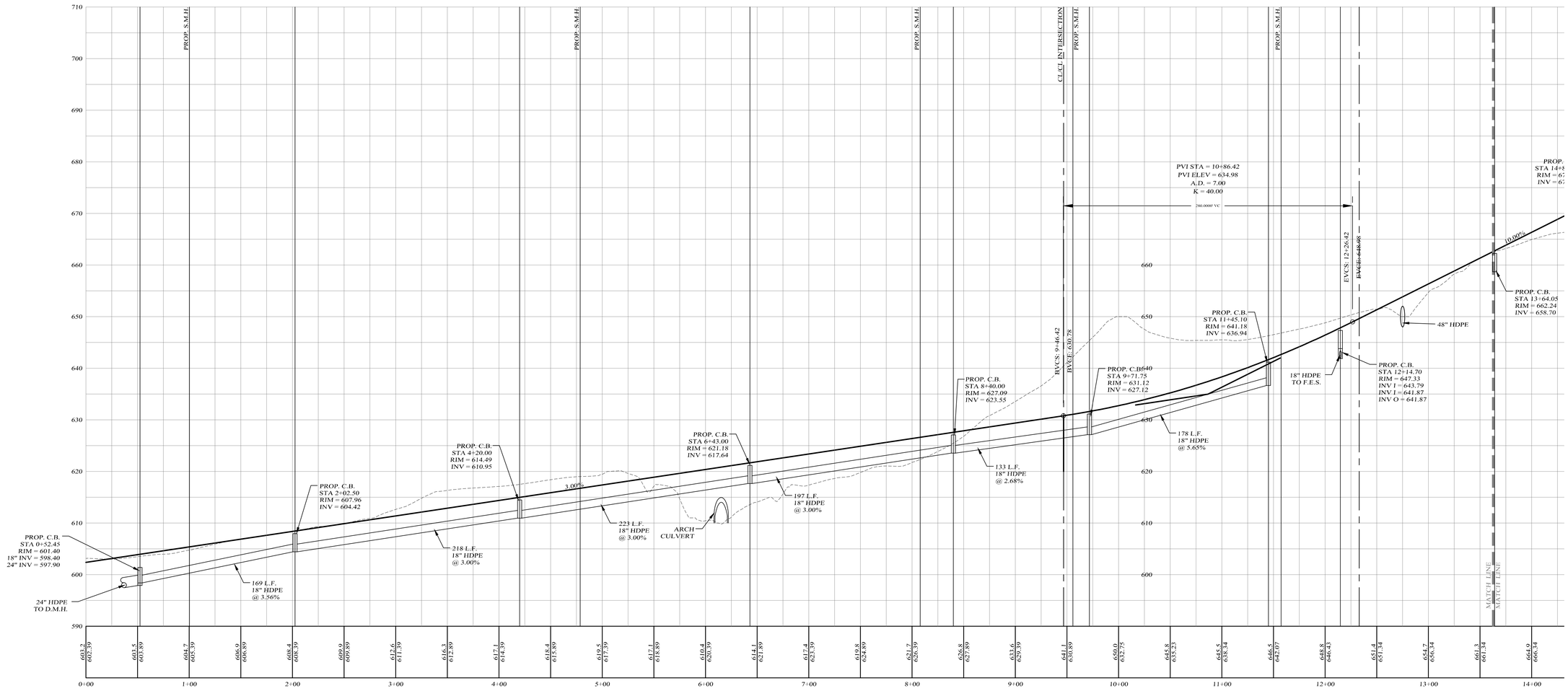
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P H2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE ----------
PROPOSED GRADE LINE ——————

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD I
PROFILE

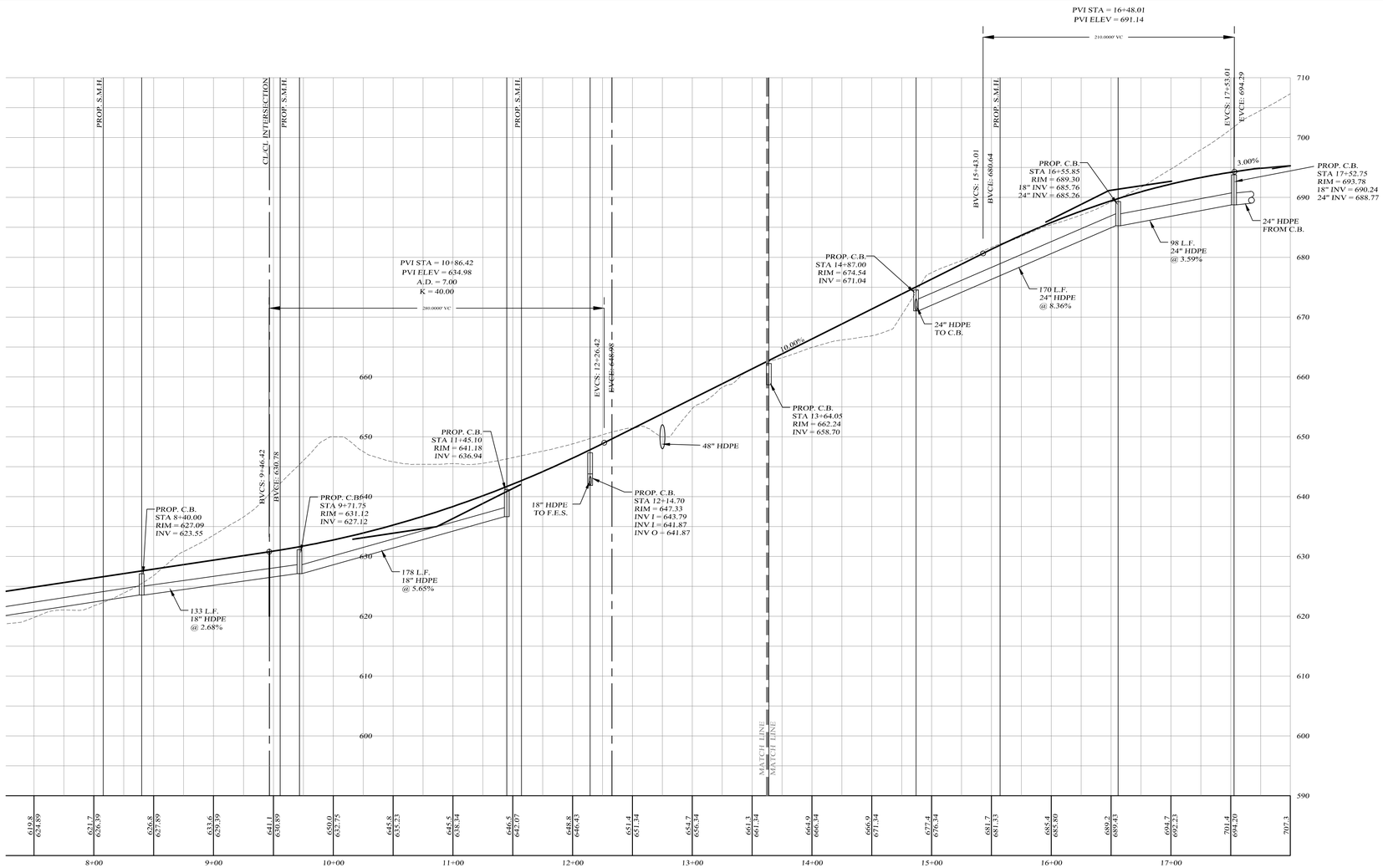
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P I1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD I
PROFILE

DRAWING TITLE

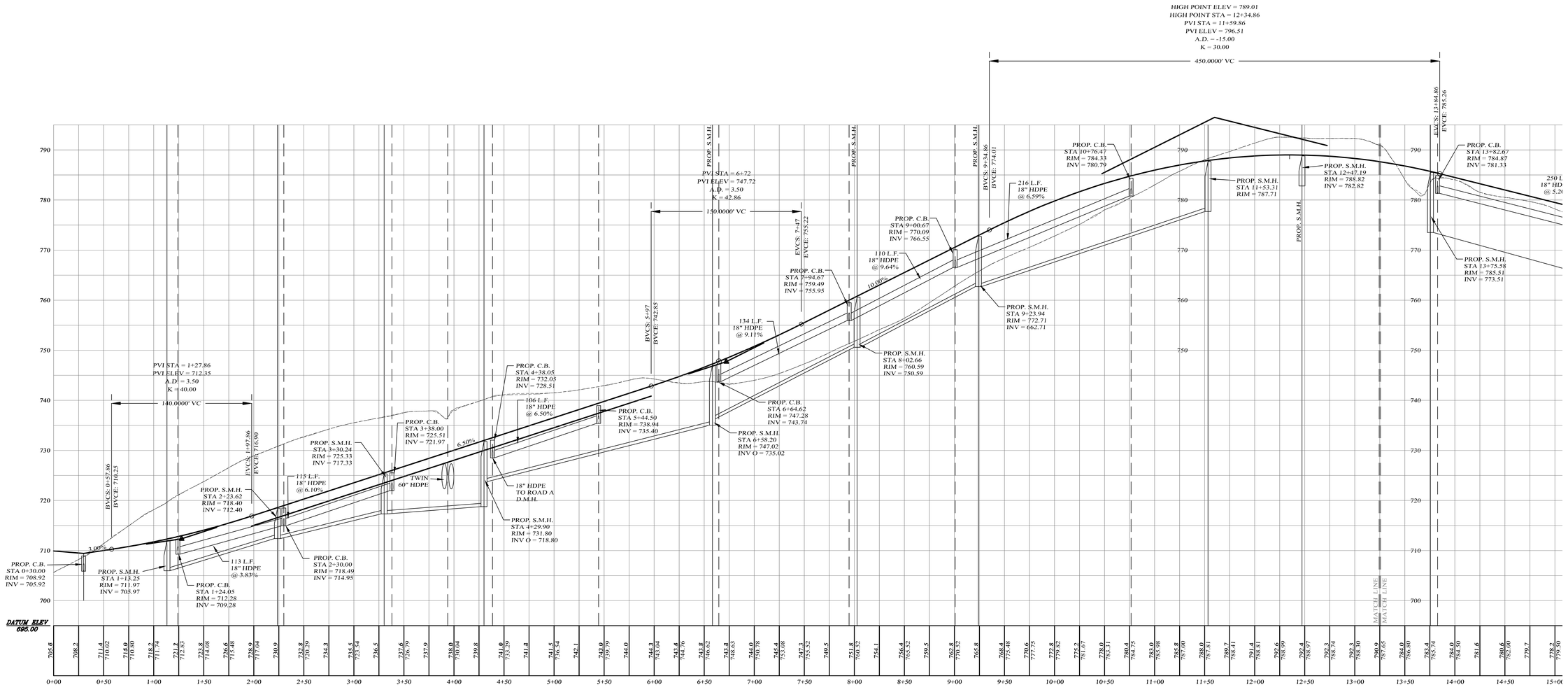
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P I2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE ----------
PROPOSED GRADE LINE ==========

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD J
PROFILE

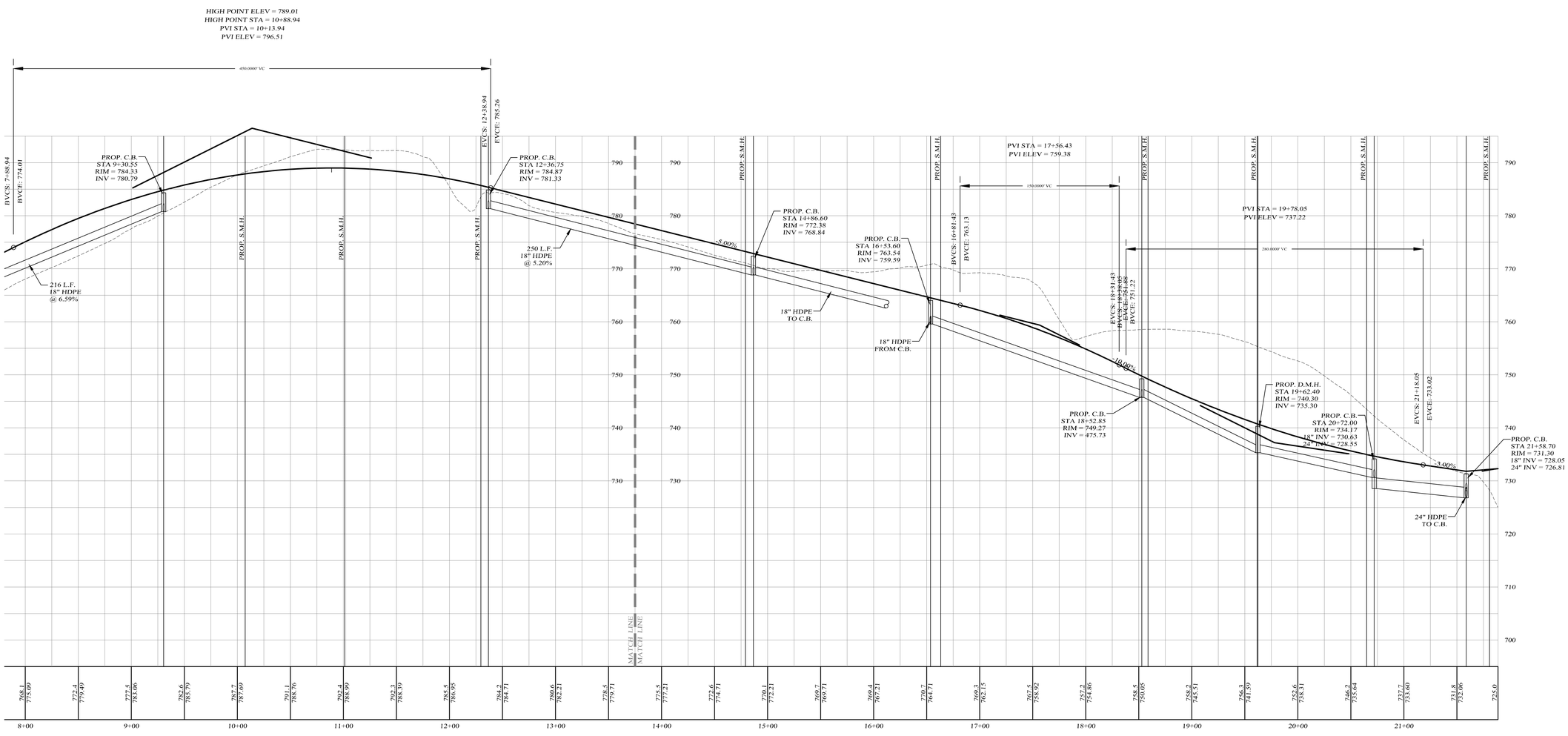
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P J1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD J
PROFILE

DRAWING TITLE

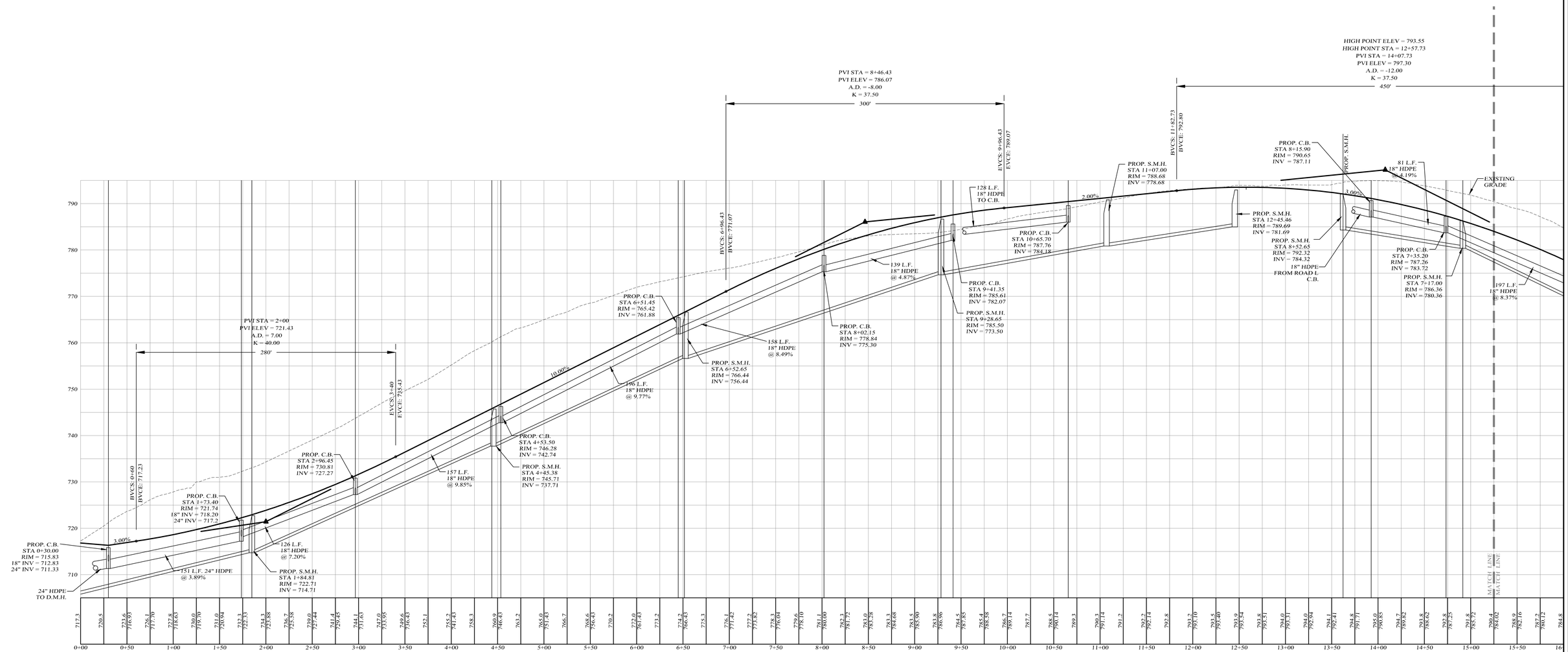
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P J2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE ----------
PROPOSED GRADE LINE ——————

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD L
PROFILE

DRAWING TITLE

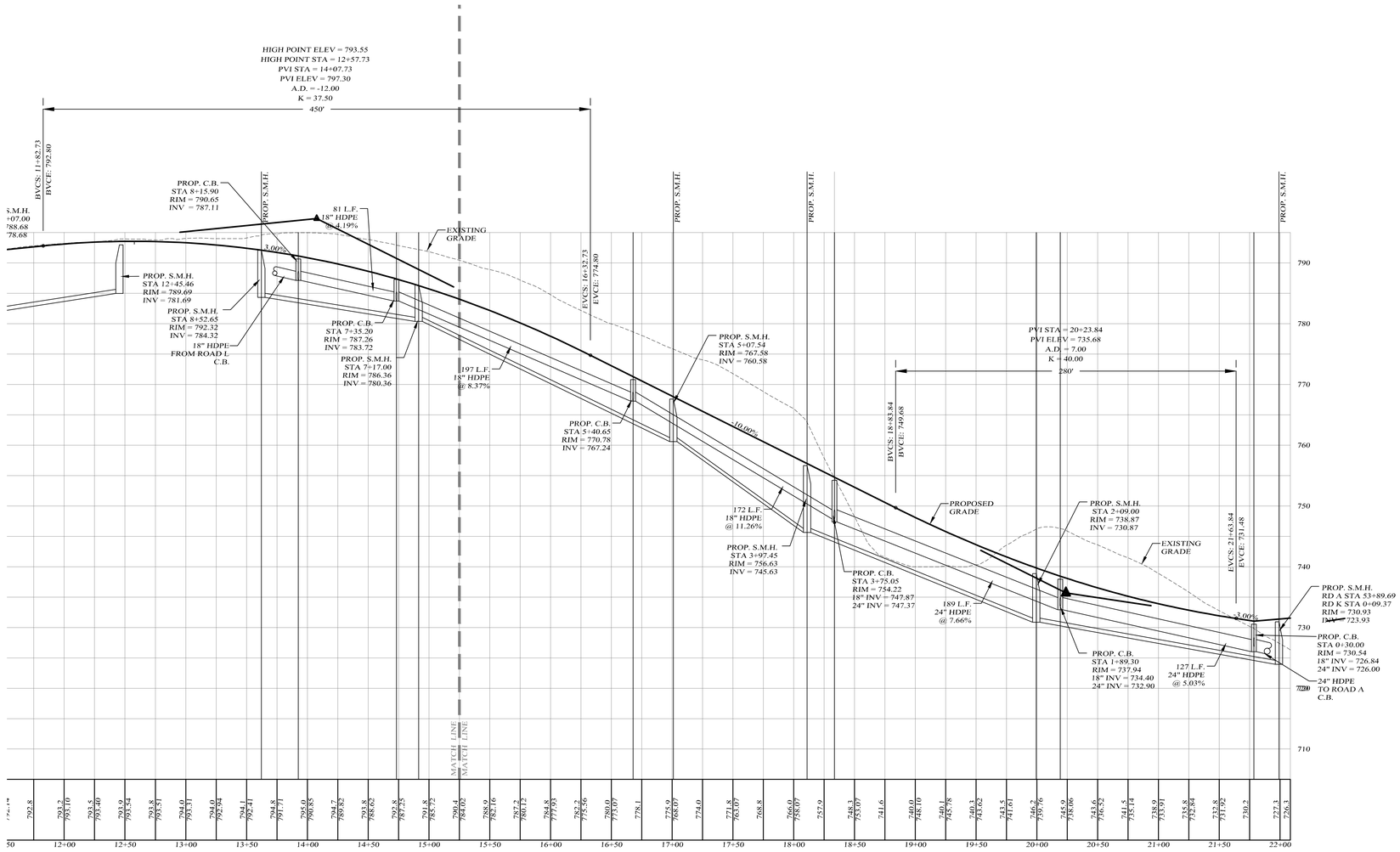
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P L1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

EXISTING GRADE LINE
PROPOSED GRADE LINE

CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD L
PROFILE

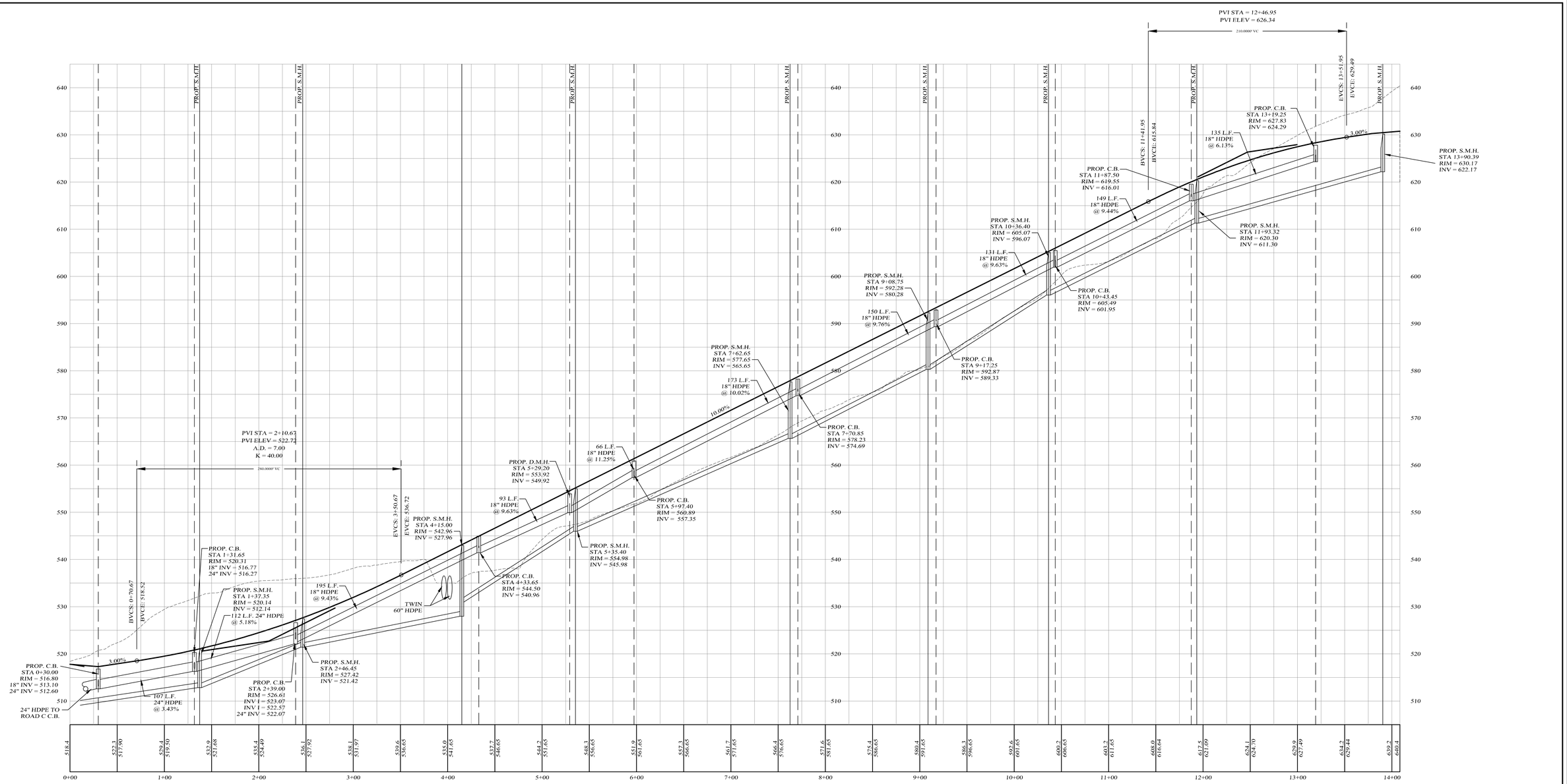
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P L2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



CENTERLINE ROAD PROFILE

SCALES:
HOR: 1" = 50'
VER: 1" = 10'

LEGEND

EXISTING GRADE LINE ----------
PROPOSED GRADE LINE ——————

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

ROAD M
PROFILE

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

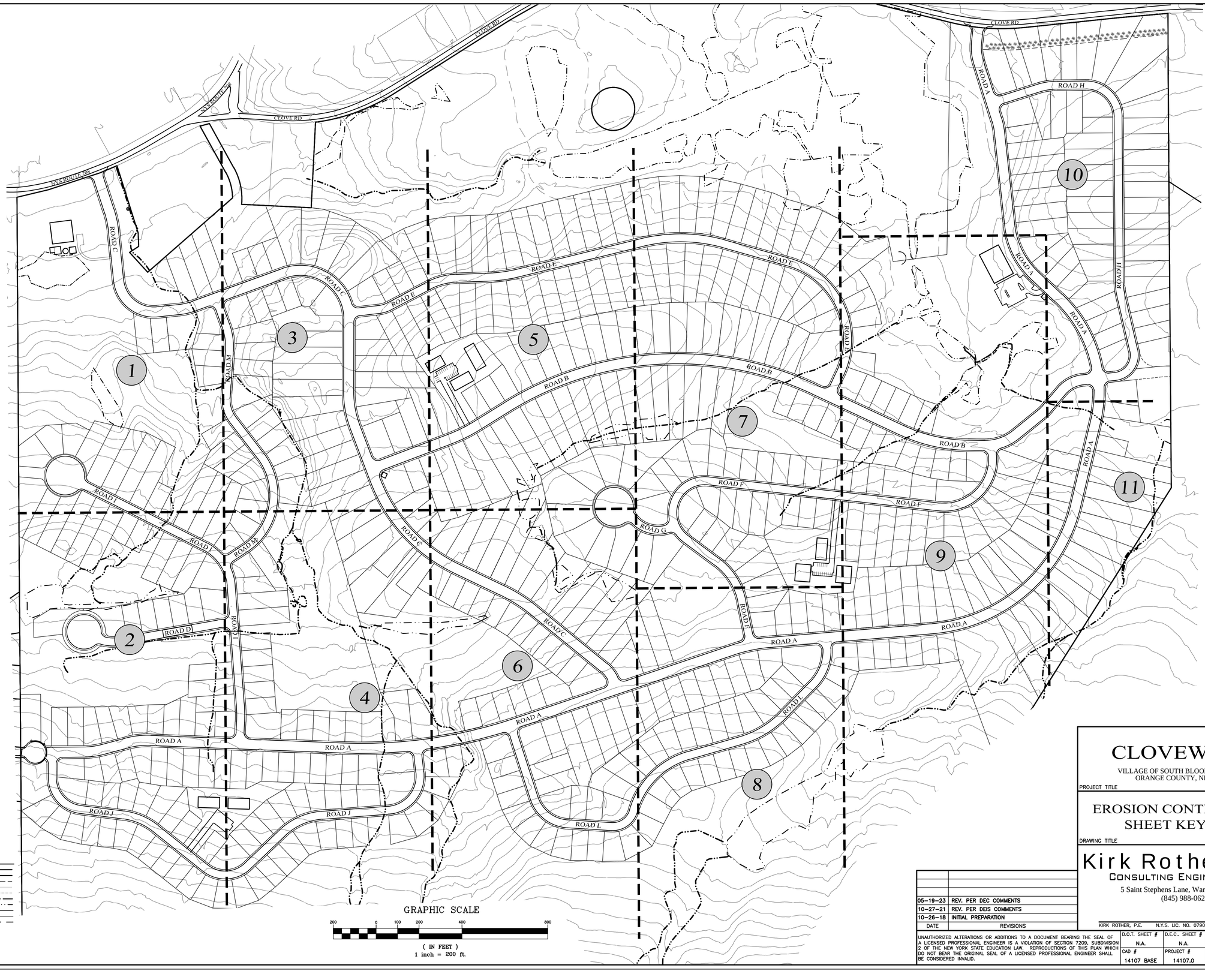
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	P M1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- SHEET MATCH LINE

GRADING / UTILITY SHEET NUMBER

7

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN SHEET KEY MAP

DRAWING TITLE

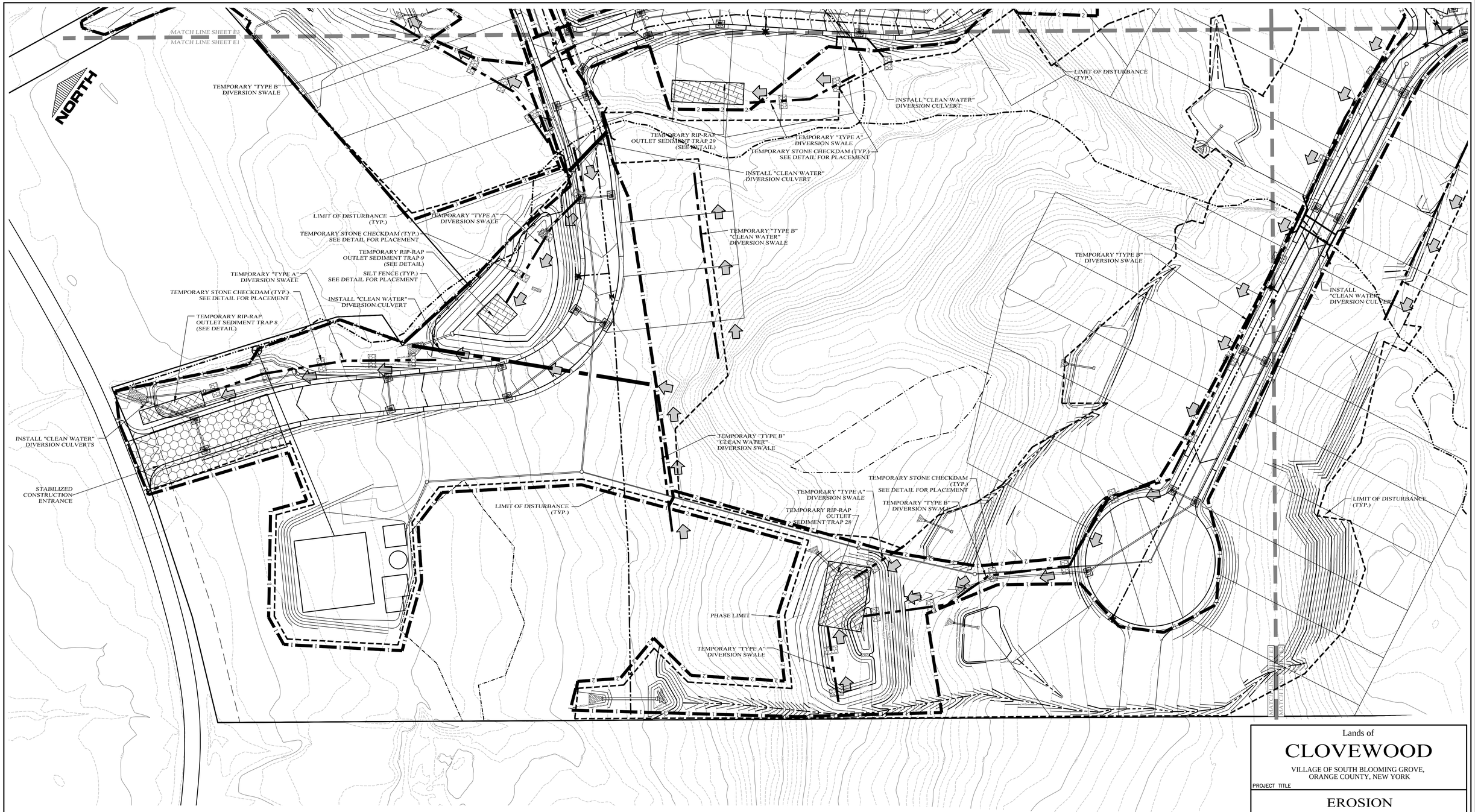
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
10-26-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	KM2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS SHOWN	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

EROSION CONTROL NOTES:

1. SILT FENCE TO BE INSTALLED DOWNHILL OF ALL CONSTRUCTION ACTIVITY (SEE DETAIL).

2. THERE SHALL BE NO MORE THAN 5ACRES DISTURBED AT ONE TIME.

3. PHASES 1 THROUGH 23 INCLUDE THE PROPOSED ROADS, PONDS AND SEDIMENT TRAPS.

4. PHASE 24 AND ON SHALL INCLUDE DEVELOPMENT OF THE RESIDNTIAL LOTS, COMMUNITY BUILDINGS, SEWAGE TREATMENT PLANT, PARK AND RIDE AREAS, BUS STOPS AND ALL OTHER PROPSED IMPROVEMENTS. NO PHASE SHALL EXCEED 5 ACRES AT ONE TIME.

5. CONSTRUCTION PHASE AREAS MUST BE STABILIZED BEFORE CONSTRUCTION BEGINS ON THE NEXT PHASE.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 2
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET E5
MATCH LINE SHEET E3

TEMPORARY "CLEAN WATER" DIVERSION SWALE REMOVE ONCE CONSTRUCTION BEGINS ON PHASE UPHILL OF SWALE

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY "TYPE A" DIVERSION SWALE

SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE B" DIVERSION SWALE

NORTH

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 12 (SEE DETAIL)

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE B" DIVERSION SWALE

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

LIMIT OF DISTURBANCE (TYP.)

LIMI DISTURBA (T

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE A" DIVERSION SWALE

MATCH LINE SHEET E3
MATCH LINE SHEET E5

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 25 (SEE DETAIL)

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 30 (SEE DETAIL)

TEMPORARY "TYPE B" DIVERSION SWALE

INSTALL "CLEAN WATER" DIVERSION CULVERT

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPO DIV

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 11 (SEE DETAIL)

SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

MATCH LINE SHEET E3
MATCH LINE SHEET E1

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY "TYPE B" DIVERSION SWALE

INSTALL "CLEAN WATER" DIVERSION CULVERT

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 3
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET E6
MATCH LINE SHEET E4

MATCH LINE SHEET E3
MATCH LINE SHEET E4

MATCH LINE SHEET E5
MATCH LINE SHEET E5

NORTH

TEMPORARY "TYPE B" DIVERSION SWALE

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

LIMIT OF DISTURBANCE (TYP.)

PERMANENT "TYPE B" "CLEAN WATER" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 24 (SEE DETAIL)

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 25 (SEE DETAIL)

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

PERMANENT "TYPE B" "CLEAN WATER" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

MATCH LINE SHEET E5
MATCH LINE SHEET E2

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 4
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

FOR PLACEMENT

MATCH LINE SHEET E5
MATCH LINE SHEET E5

MATCH LINE SHEET E6
MATCH LINE SHEET E6

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY SOIL STOCKPILE

LIMIT OF DISTURBANCE (TYP.)

SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 16 (SEE DETAIL)

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

PERMANENT "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 12 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 33 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 31 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "CLEAN WATER" DIVERSION SWALE REMOVE ONCE CONSTRUCTION BEGINS ON PHASE UPHILL OF SWALE

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY "TYPE A" DIVERSION SWALE

NORTH

STO

LIMIT OF DISTURBA (TYP.)

OUTLE

MATCH LINE SHEET E5
MATCH LINE SHEET E6

MATCH LINE SHEET E5
MATCH LINE SHEET E5

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 5
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET E7
MATCH LINE SHEET E6

MATCH LINE SHEET E8
MATCH LINE SHEET E6

NORTH

LIMITS OF DISTURBANCE (TYP.)

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE A" DIVERSION SWALE

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 19 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 20 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 21 (SEE DETAIL)

SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

INSTALL "CLEAN WATER" DIVERSION CULVERT

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 22 (SEE DETAIL)

MATCH LINE SHEET E6
MATCH LINE SHEET E4

TEMPORARY "TYPE B" DIVERSION SWALE

LIMIT OF DISTURBANCE (TYP.)

MATCH LINE SHEET E5
MATCH LINE SHEET L6

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

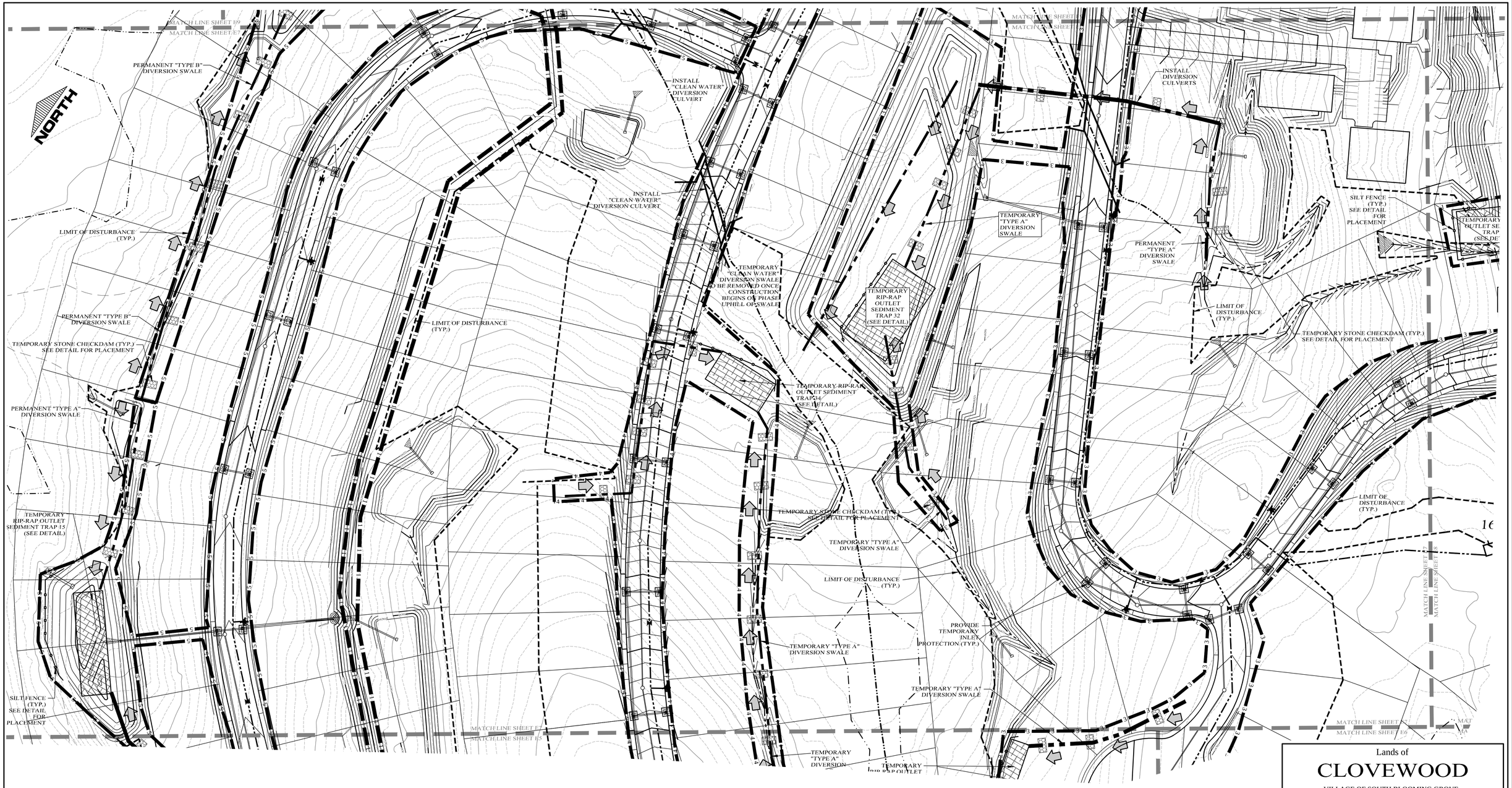
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 6
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 7
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET E9
MATCH LINE SHEET E8

NORTH

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 17 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

CKDAM (TYP.)
ENT

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY SOIL STOCKPILE (SEE DETAIL)

OE
RBANCE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

16

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 18 (SEE DETAIL)

SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

MATCH LINE SHEET E7
MATCH LINE SHEET E6

SHEET E7
SHEET E6
MATCH LINE SHEET E8
MATCH LINE SHEET E6

LIMITS OF DISTURBANCE (TYP.)

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 8
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

MATCH LINE SHEET E10
MATCH LINE SHEET E9

MATCH LINE SHEET E10
MATCH LINE SHEET E9

MATCH LINE SHEET E8
MATCH LINE SHEET E9

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 2 (SEE DETAIL)

APPROX. 2,280 S.F. OF DISTURANCE WITHIN WETLANDS BUFFER

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 14 (SEE DETAIL)

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 13 (SEE DETAIL)

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

INSTALL "CLEAN WATER" DIVERSION CULVERT

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 5 (SEE DETAIL)

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 4 (SEE DETAIL)

PROPOSED SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 7 (SEE DETAIL)

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY "TYPE B" DIVERSION SWALE

INSTALL PERMANENT DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

LIMIT OF DISTURBANCE (TYP.)

LIMIT OF DISTURBANCE (TYP.)

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

LIMIT OF DISTURBANCE (TYP.)

TEMPORARY "TYPE B" DIVERSION SWALE

INSTALL "CLEAN WATER" DIVERSION CULVERT

MATCH LINE SHEET E8
MATCH LINE SHEET E9

MATCH LINE SHEET E9
MATCH LINE SHEET E8

MATCH LINE SHEET E10
MATCH LINE SHEET E9

NORTH

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 9
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

PROVIDE TEMPORARY INLET PROTECTION (TYP.)

LIMIT OF DISTURBANCE (TYP.)

LIMIT OF DISTURBANCE (TYP.)

SEE DEAT

TEM
OUTLET S

STONE CH
SEE DETAIL F

TEMPORARY "T
DIVERSION S

MATCH LINE SHEET E10
MATCH LINE SHEET E11

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 3 (SEE DETAIL)

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY "TYPE A" DIVERSION SWALE

MATCH LINE SHEET E10
MATCH LINE SHEET E9

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE A" DIVERSION SWALE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 5 (SEE DETAIL)

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 4 (SEE DETAIL)

PROPOSED SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

INSTALL "CLEAN WATER" DIVERSION CULVERTS

TEMPORARY "TYPE B" DIVERSION SWALE

TEMPORARY STONE CHECKDAM (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE A" DIVERSION SWALE

LIMITS OF DISTURBANCE

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 2 (SEE DETAIL)

SILT FENCE (TYP.) SEE DETAIL FOR PLACEMENT

TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP 1 (SEE DETAIL)

MATCH LINE SHEET E10
MATCH LINE SHEET E9

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 10
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

NORTH

SILT FENCE (TYP.)
SEE DEATIL FOR PLACEMENT

TEMPORARY RIP-RAP
OUTLET SEDIMENT TRAP 6
(SEE DETAIL)

TEMPORARY
STONE CHECKDAM (TYP.)
SEE DETAIL FOR PLACEMENT

TEMPORARY "TYPE B"
DIVERSION SWALE

MATCH LINE SHEET E10
MATCH LINE SHEET E11

PROVIDE TEMPORARY
INLET PROTECTION (TYP.)

LIMIT OF DISTURBANCE
(TYP.)

RARY "TYPE A"
ERSION SWALE

TEMPORARY RIP-RAP
LET SEDIMENT TRAP 3
(SEE DETAIL)

DAM (TYP.)
PLACEMENT

TEMPORARY "TYPE A"
DIVERSION SWALE

MATCH LINE SHEET E11
MATCH LINE SHEET E9

TEMPORARY "TYPE B"
DIVERSION SWALE

TEMPORARY "TYPE B"
DIVERSION SWALE

LIMIT OF
DISTURBANCE
(TYP.)

TEMPORARY "TYPE A"
DIVERSION SWALE

TEMPORARY RIP-RAP
OUTLET SEDIMENT TRAP 5
(SEE DETAIL)

TEMPORARY RIP-RAP
OUTLET SEDIMENT TRAP 4
(SEE DETAIL)

PROPOSED SILT FENCE (TYP.)
SEE DETAIL FOR PLACEMENT

INSTALL PERMANENT
DIVERSION SWALE

TEMPORARY "TYPE A"
DIVERSION SWALE

TEMPORARY
STONE CHECKDAM (TYP.)
SEE DETAIL FOR PLACEMENT

PROVIDE TEMPORARY
INLET PROTECTION (TYP.)

LIMIT OF DISTURBANCE
(TYP.)

TEMPORARY "TYPE A"
DIVERSION SWALE

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- CONSTRUCTION PHASE LIMIT / 5 5 5
- INLET PROTECTION FOR CATCH BASINS
- PROPOSED STONE CHECK DAM
- PROPOSED DIVESION SWALE
- PROPOSED SOIL STOCKPILE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

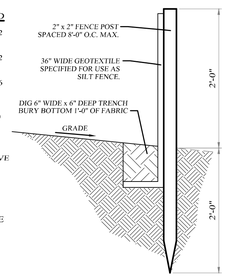
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	D.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 11
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

FENCE PROPERTIES	MINIMUM VALUE	STANDARD
GRAB TENSILE STRENGTH (LBS)	90	ASTMD 1682
ELONGATION AT FAILURE(%)	50	ASTM D1682
MULEN BURST STRENGTH (PSI)	190	ASTM D3786
PUNCTURE STRENGTH (LBS)	40	ASTM D751 (MODIFIED)
SLURRY FLOW RATE (GAL/MIN/SF)	0.3	
EQUIVENT OPENING SIZE	40-80	US STD SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY (%)	90	ASTM G-26

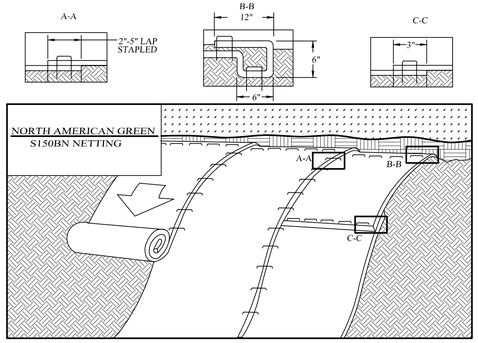
SLOPE STEEPNESS	MAXIMUM FENCE SPACING (FT)
2:1	50
3:1	75
4:1	125
5:1	175
FLATTER THAN 5:1	200



NOTES:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED
3. ALL SILT FENCES SHALL RUN PARALLEL TO THE CONTOUR OF THE LAND.
4. ALL SILT FENCING SHALL MEET THE MINIMUM REQUIREMENTS AS STATED UNLESS OTHERWISE NOTED AND APPROVED BY THE BUILDING INSPECTOR AND ENGINEER.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE EVERY 24" AT TOP AND MID SECTION

FILTER FABRIC SILT FENCE DETAIL

NOT TO SCALE



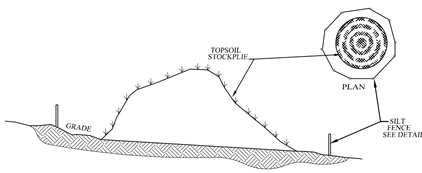
CONSTRUCTION SPECIFICATIONS:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE ADDED PRIOR TO STABILIZATION.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

ROLLED EROSION CONTROL MATTING SLOPE STABILIZATION DETAIL

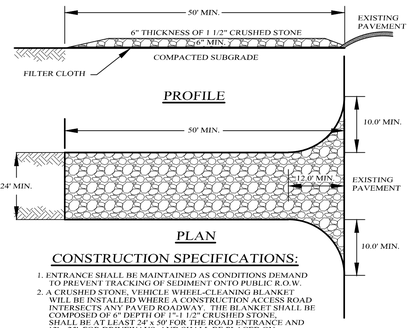
NOT TO SCALE



NOTES:
1. TOPSOIL STOCKPILE TO BE BE SEEDED AS PER THE TEMPORARY SEEDING SPECIFICATIONS.
2. SILT FENCE TO BE INSTALLED DOWN GRADIENT OF STOCKPILE.

TOPSOIL STOCKPILE DETAIL

NOT TO SCALE

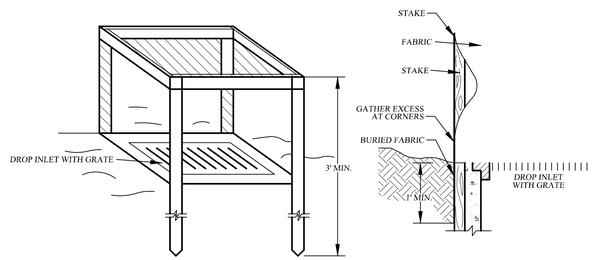


CONSTRUCTION SPECIFICATIONS:

1. ENTRANCE SHALL BE MAINTAINED AS CONDITIONS DEMAND TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC R.O.W.
2. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHERE A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. THE BLANKET SHALL BE COMPOSED OF 6" DEPTH OF 1"-4 1/2" CRUSHED STONE, SHALL BE AT LEAST 24' x 50' FOR THE ROAD ENTRANCE AND 12' x 25' FOR DRIVEWAYS, AND SHALL BE PLACED ON COMPACTED SUB-GRADE.
3. A FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:

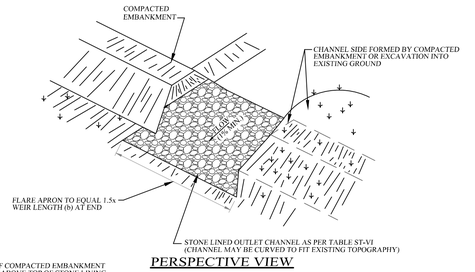
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM OF 18" DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.

FILTER FABRIC DROP INLET PROTECTION

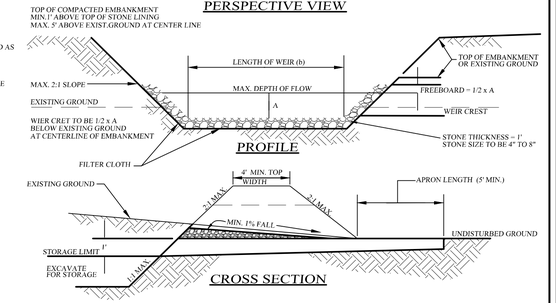
NOT TO SCALE

RIPRAP OUTLET SEDIMENT TRAP CONSTRUCTION SPECIFICATIONS:

1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET. MEASURED AT CENTERLINE OF EMBANKMENT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER.
4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED HEIGHT OF EMBANKMENT.
5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE WEIR CREST.
6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
7. STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCHES (RIP RAP). TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
9. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND SHALL BE REPAIRED AS NEEDED.
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
12. DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES.



PERSPECTIVE VIEW



RIPRAP OUTLET SEDIMENT TRAP

NOT TO SCALE

MAX.DRAINAGE AREA = 15 ACRES

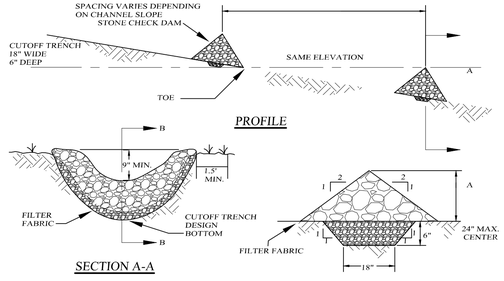
SEDIMENT TRAP CRITERIA

	TRAP #1	TRAP #2	TRAP #3	TRAP #4	TRAP #5	TRAP #6	TRAP #7	TRAP #8	TRAP #9
DRAINAGE AREA	11.6± ACRES	7.6± ACRES	9.5± ACRES	3± ACRES	15± ACRES	11± ACRES	11± ACRES	2.5± ACRES	1.5± ACRES
STORAGE REQUIRED	41,760 cu. ft.	27,360 cu. ft.	34,200 cu. ft.	10,800 cu. ft.	54,000 cu. ft.	39,600 cu. ft.	39,600 cu. ft.	9,000 cu. ft.	5,400 cu. ft.
STORAGE PROVIDED	45,000 cu. ft.	30,000 cu. ft.	40,500 cu. ft.	12,500 cu. ft.	55,000 cu. ft.	40,000 cu. ft.	42,250 cu. ft.	9,500 cu. ft.	8,000 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	150' x 60'	200' x 30'	80' x 90'	50' x 50'	200' x 50'	100' x 80'	130' x 65'	95' x 20'	40' x 40'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'	5'	5'

	TRAP #10	TRAP #11	TRAP #12	TRAP #13	TRAP #14	TRAP #15	TRAP #16	TRAP #17	TRAP #18
DRAINAGE AREA	6± ACRES	14± ACRES	14.5± ACRES	7± ACRES	8± ACRES	7± ACRES	10± ACRES	7.5± ACRES	7± ACRES
STORAGE REQUIRED	21,600 cu. ft.	50,400 cu. ft.	52,200 cu. ft.	25,200 cu. ft.	25,800 cu. ft.	25,200 cu. ft.	36,000 cu. ft.	27,000 cu. ft.	25,200 cu. ft.
STORAGE PROVIDED	22,500 cu. ft.	54,000 cu. ft.	55,000 cu. ft.	32,000 cu. ft.	30,000 cu. ft.	28,000 cu. ft.	39,000 cu. ft.	30,000 cu. ft.	26,250 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	150' x 30'	180' x 60'	220' x 50'	80' x 80'	120' x 50'	140' x 40'	130' x 60'	100' x 60'	75' x 70'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'	5'	5'

	TRAP #19	TRAP #20	TRAP #21	TRAP #22	TRAP #23	TRAP #24	TRAP #25	TRAP #26	TRAP #27
DRAINAGE AREA	3± ACRES	8.5± ACRES	6.5± ACRES	7± ACRES	4± ACRES	14.5± ACRES	5± ACRES	13± ACRES	6.5± ACRES
STORAGE REQUIRED	10,800 cu. ft.	30,600 cu. ft.	23,400 cu. ft.	25,200 cu. ft.	14,400 cu. ft.	52,200 cu. ft.	18,000 cu. ft.	46,800 cu. ft.	23,400 cu. ft.
STORAGE PROVIDED	11,250 cu. ft.	31,250 cu. ft.	24,000 cu. ft.	27,000 cu. ft.	15,000 cu. ft.	55,250 cu. ft.	20,000 cu. ft.	52,000 cu. ft.	24,000 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	90' x 25'	125' x 50'	160' x 30'	90' x 60'	100' x 30'	130' x 85'	80' x 50'	130' x 80'	80' x 60'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'	5'	5'

	TRAP #28	TRAP #29	TRAP #30	TRAP #31	TRAP #32	TRAP #33	TRAP #34
DRAINAGE AREA	7± ACRES	3± ACRES	3.5± ACRES	8.5± ACRES	11.5± ACRES	2± ACRES	4.5± ACRES
STORAGE REQUIRED	25,200 cu. ft.	10,800 cu. ft.	12,600 cu. ft.	30,600 cu. ft.	41,400 cu. ft.	7,200 cu. ft.	16,200 cu. ft.
STORAGE PROVIDED	27,000 cu. ft.	15,000 cu. ft.	15,125 cu. ft.	32,500 cu. ft.	42,000 cu. ft.	7,500 cu. ft.	17,000 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	90' x 60'	100' x 30'	55' x 55'	100' x 60'	120' x 70'	60' x 25'	85' x 40'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'

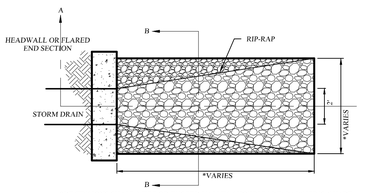


CONSTRUCTION SPECIFICATIONS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATION OF THE CREST OF THE DOWN STREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.
6. MAXIMUM DRAINAGE AREA IS 2 ACRES ABOVE THE CHECK DAM.

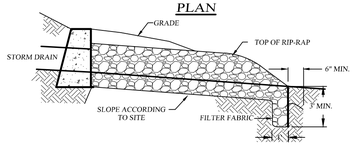
CHECK DAM DETAILS

NOT TO SCALE



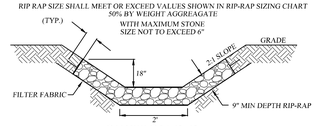
*DIMENSIONS SHALL MEET OR EXCEED VALUES SHOWN IN RIP-RAP SIZING CHART

PLAN



SECTION A-A

RIP RAP SIZE SHALL MEET OR EXCEED VALUES SHOWN IN RIP-RAP SIZING CHART
50% BY WEIGHT AGGREAGATE WITH MAXIMUM STONE SIZE NOT TO EXCEED 6"



SECTION B-B

RIP-RAP OUTLET DETAIL

NOT TO SCALE

PERMANENT SEEDING MIXTURES

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

SPECIES	APPLICATION RATE
EMPIRE BIRDSFOOT TREFOIL	8 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
	5 LBS/ACRE

GENERAL RECREATION AREAS AND LAWNS

SPECIES	APPLICATION RATE
SUNNY SITES (WELL, MODERATELY WELL AND SOMEWHAT POORLY DRAINED SOILS)	
65% KENTUCKY BLUEGRASS BLEND	85-114 LBS/ACRE
20% PERENNIAL RYEGRASS	26-35 LBS/ACRE
15% FINE FESCUE	19-26 LBS/ACRE
SUNNY DROUGHTY SITES (SOMEWHAT TO EXCESSIVELY DRAINED SOILS)	
65% FINE FESCUE	114-143 LBS/ACRE
15% PERENNIAL RYEGRASS	26-33 LBS/ACRE
20% KENTUCKY BLUEGRASS BLEND	35-44 LBS/ACRE

SHADY DRY SITES (WELL TO SOMEWHAT POORLY DRAINED SOILS)
80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND
20% PERENNIAL RYEGRASS

SHADY WET SITES (SOMEWHAT POOR TO POORLY DRAINED SOILS)
70% ROUGH BLUEGRASS
80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND

SITE PREPARATION
A. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEEDED TO DESIRED GRADES USING A MINIMUM OF 4" OF TOPSOIL.
B. PREPARE SEED BED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES
C. LIME TO A pH OF 6.5
D. FERTILIZE PER SOIL TESTS, OR, IF FERTILIZER IS TO BE APPLIED BEFORE SOIL TESTS, APPLY 850 POUNDS OF 5-10-10 OR EQUIVALENT PER ACRE (20 LBS. / 1000 SQ. FT.)
E. INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF SOIL.
F. SMOOTH. REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER. FIRM SEED BED.
G. APPLY SEED PER PERMANENT SEEDING SCHEDULE.

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

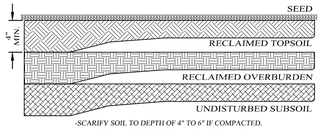
SLOPES OF 4:1 OR GREATER (HORIZONTAL:VERTICAL)
SLOPES SHALL BE HYDROSEEDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY ROLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

GENTLE SLOPES AND FLAT AREAS
AREAS SHALL BE SEEDED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS/ACRE. BROADCAST AREAS SHALL MULCHED WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE. AREAS SEEDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.

TEMPORARY SEEDING SPECIFICATIONS

AREAS REMAINING DISTURBED FOR 14 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:
SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS/ACRE 5-10-10 FERTILIZER IF REQ., SEED WITH SPECIES AND RATE SHOWN BELOW, MULCH WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)	30 LBS/ACRE (0,7 LBS/1000 SF)



-SCARIFY SOIL TO DEPTH OF 4" TO 6" IF COMPACTED.
-REMOVE LARGE STONES, STUMPS, ROOTS & DEBRIS.
-LIME AS REQUIRED TO ACHIEVE A pH OF 6.0.
-FERTILIZE AT 600/ACRE OF 5-10-10 FERTILIZER, IF NEEDED.
-ROUGHEN TOP 4" OF SOIL, SEED AND MULTCH.

RECLAMATION DETAIL

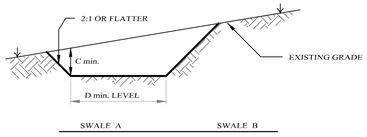
NOT TO SCALE

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 ACOR LESS)	B (5 AC-10 AC)
1.	0.5-3.0	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2.	3.1-5.0	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3.	5.1-8.0	SEED WITH JUTE OR EXCELSIOR SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4.	8.1-20	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

TEMPORARY DIVERSION SWALE DETAIL

NOT TO SCALE



SWALE	A	B
C	1'	1'
D	4'	6'

CROSS SECTION



PLAN VIEW

CONSTRUCTION SPECIFICATIONS:

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH IMPEDE NORMAL FLOW.
6. ALL FILLS ARE TO BE MECHANICALLY COMPACTED.
7. ALL EARTH REMOVED AND NOT NEEDED SHALL BE PLACED AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. REEFER TO CHART FOR STABILIZATION OF FLOW CHANNEL.
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

EROSION CONTROL DETAILS

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 12
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

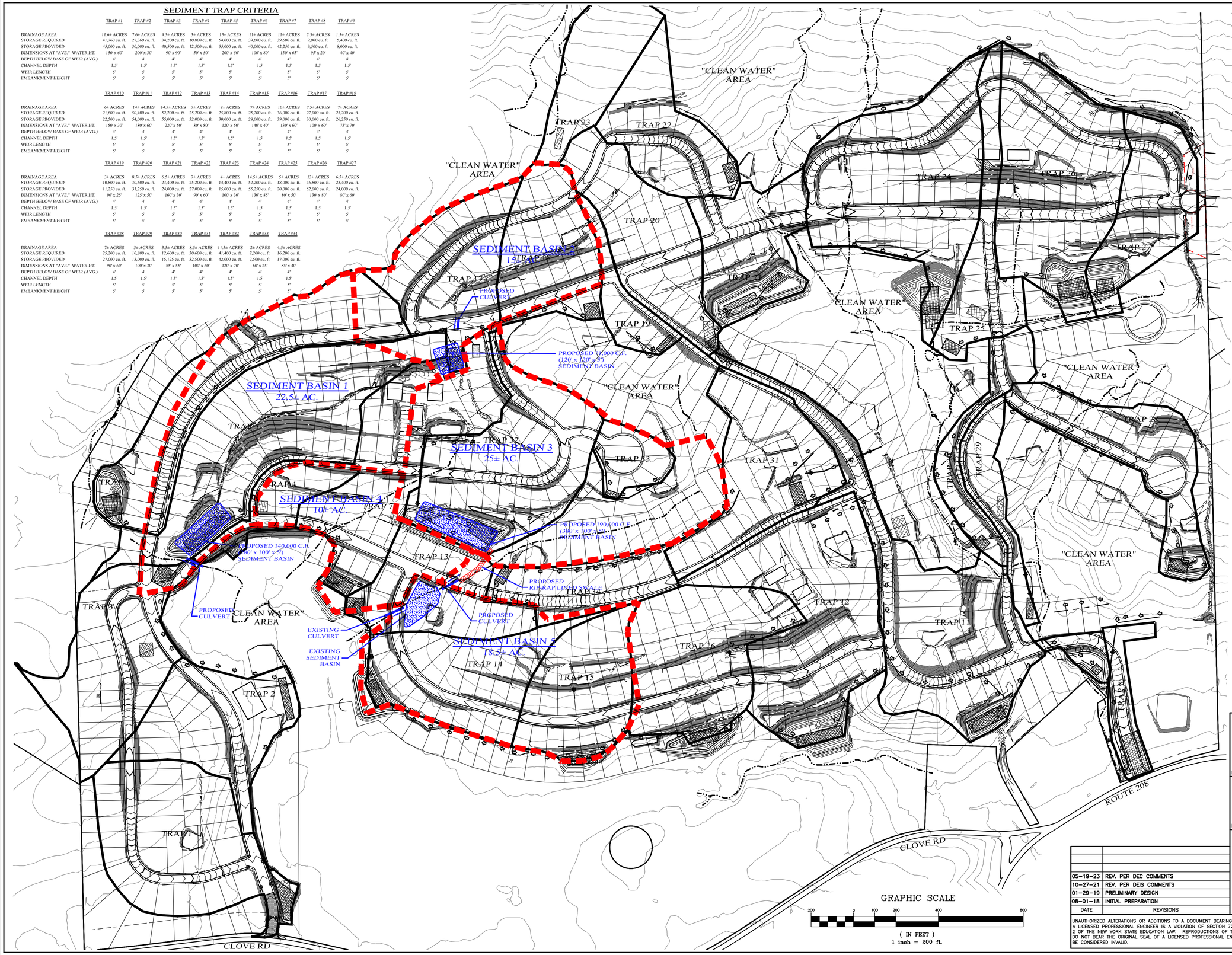
SEDIMENT TRAP CRITERIA

	TRAP #1	TRAP #2	TRAP #3	TRAP #4	TRAP #5	TRAP #6	TRAP #7	TRAP #8	TRAP #9
DRAINAGE AREA	11.6± ACRES	7.6± ACRES	9.5± ACRES	3± ACRES	15± ACRES	11± ACRES	11± ACRES	2.5± ACRES	1.5± ACRES
STORAGE REQUIRED	41,760 cu. ft.	27,360 cu. ft.	34,200 cu. ft.	10,800 cu. ft.	54,000 cu. ft.	39,600 cu. ft.	39,600 cu. ft.	9,000 cu. ft.	5,400 cu. ft.
STORAGE PROVIDED	45,000 cu. ft.	30,000 cu. ft.	40,500 cu. ft.	12,500 cu. ft.	55,000 cu. ft.	40,000 cu. ft.	42,250 cu. ft.	9,500 cu. ft.	8,000 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	150' x 60'	200' x 30'	90' x 90'	50' x 50'	200' x 50'	100' x 80'	130' x 65'	95' x 20'	40' x 40'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'	5'	5'

	TRAP #10	TRAP #11	TRAP #12	TRAP #13	TRAP #14	TRAP #15	TRAP #16	TRAP #17	TRAP #18
DRAINAGE AREA	6± ACRES	14± ACRES	14.5± ACRES	7± ACRES	8± ACRES	7± ACRES	10± ACRES	7.5± ACRES	7± ACRES
STORAGE REQUIRED	21,600 cu. ft.	50,400 cu. ft.	52,200 cu. ft.	25,200 cu. ft.	25,800 cu. ft.	25,200 cu. ft.	36,000 cu. ft.	27,000 cu. ft.	25,200 cu. ft.
STORAGE PROVIDED	22,500 cu. ft.	54,000 cu. ft.	55,000 cu. ft.	32,000 cu. ft.	30,000 cu. ft.	28,000 cu. ft.	39,000 cu. ft.	30,000 cu. ft.	26,250 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	150' x 30'	180' x 60'	220' x 50'	80' x 80'	120' x 50'	140' x 40'	130' x 60'	100' x 60'	75' x 70'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'	5'	5'

	TRAP #19	TRAP #20	TRAP #21	TRAP #22	TRAP #23	TRAP #24	TRAP #25	TRAP #26	TRAP #27
DRAINAGE AREA	3± ACRES	8.5± ACRES	6.5± ACRES	7± ACRES	4± ACRES	14.5± ACRES	5± ACRES	13± ACRES	6.5± ACRES
STORAGE REQUIRED	10,800 cu. ft.	30,600 cu. ft.	23,400 cu. ft.	25,200 cu. ft.	14,400 cu. ft.	52,200 cu. ft.	18,000 cu. ft.	46,800 cu. ft.	23,400 cu. ft.
STORAGE PROVIDED	11,250 cu. ft.	31,250 cu. ft.	24,000 cu. ft.	27,000 cu. ft.	15,000 cu. ft.	55,250 cu. ft.	20,000 cu. ft.	52,000 cu. ft.	24,000 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	90' x 25'	125' x 50'	160' x 30'	90' x 60'	100' x 30'	130' x 85'	80' x 50'	130' x 80'	80' x 60'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'	5'	5'

	TRAP #28	TRAP #29	TRAP #30	TRAP #31	TRAP #32	TRAP #33	TRAP #34
DRAINAGE AREA	7± ACRES	3± ACRES	3.5± ACRES	8.5± ACRES	11.5± ACRES	2± ACRES	4.5± ACRES
STORAGE REQUIRED	25,200 cu. ft.	10,800 cu. ft.	12,600 cu. ft.	30,600 cu. ft.	41,400 cu. ft.	7,200 cu. ft.	16,200 cu. ft.
STORAGE PROVIDED	27,000 cu. ft.	15,000 cu. ft.	15,125 cu. ft.	32,500 cu. ft.	42,000 cu. ft.	7,500 cu. ft.	17,000 cu. ft.
DIMENSIONS AT "AVE." WATER HT.	90' x 60'	100' x 30'	55' x 55'	100' x 60'	120' x 70'	60' x 25'	85' x 40'
DEPTH BELOW BASE OF WEIR (AVG.)	4'	4'	4'	4'	4'	4'	4'
CHANNEL DEPTH	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
WEIR LENGTH	5'	5'	5'	5'	5'	5'	5'
EMBANKMENT HEIGHT	5'	5'	5'	5'	5'	5'	5'



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED SILT FENCE
- TRAP TRIBUTARY AREA
- PROPOSED TEMPORARY RIP-RAP OUTLET SEDIMENT TRAP

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

SEDIMENT TRAP TRIBUTARY AREA MAP

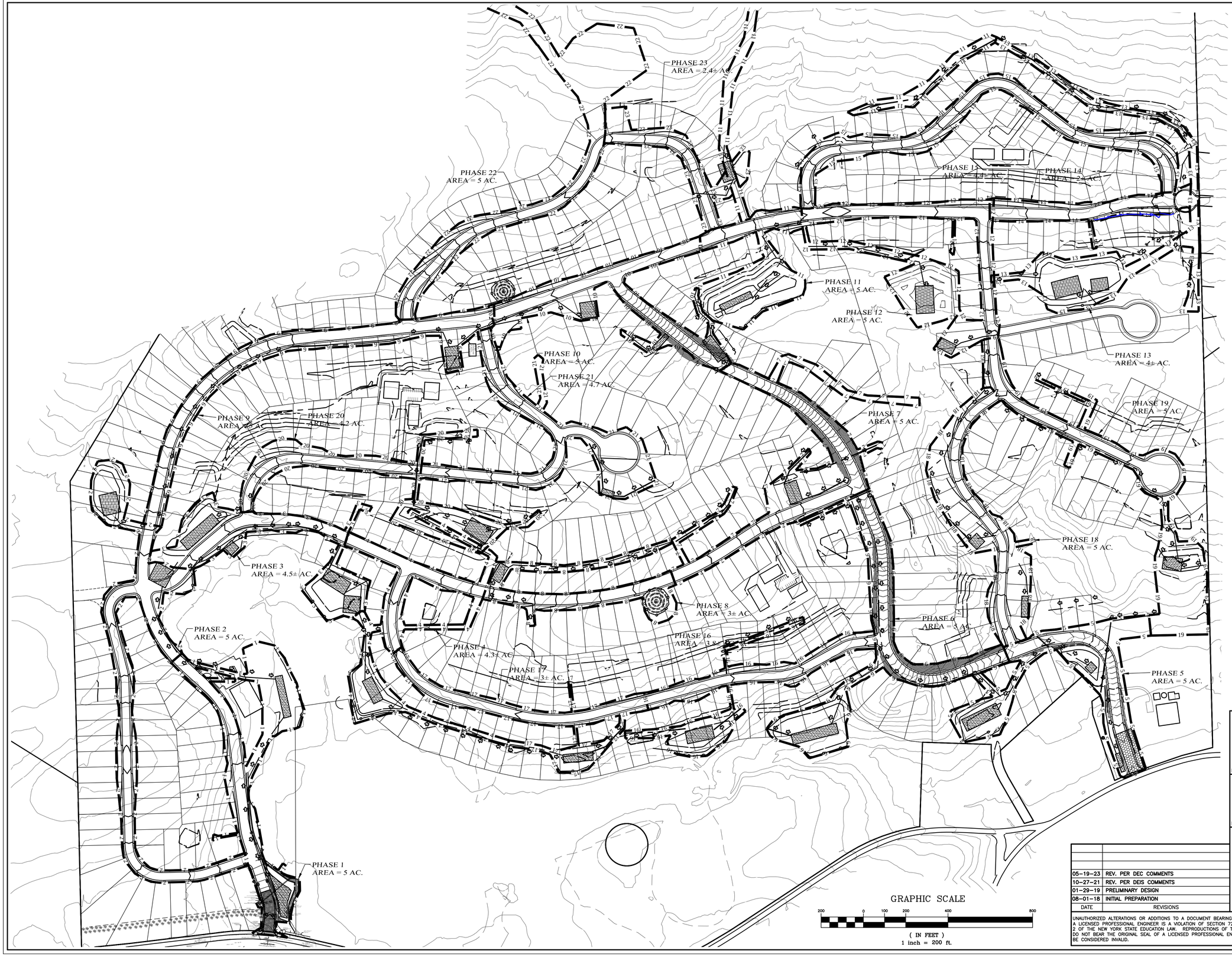
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 13
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
08-01-18	INITIAL PREPARATION

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

CONSTRUCTION PHASING PLAN

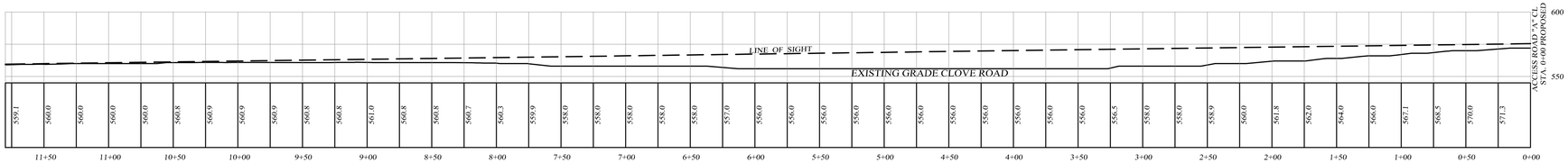
DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	E 14
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	



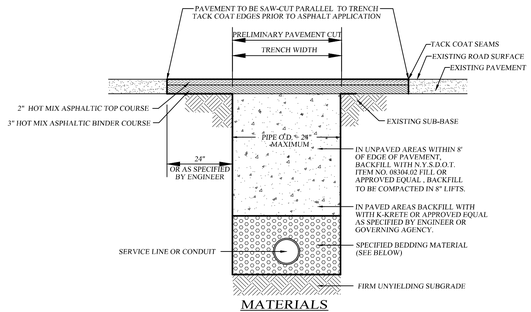
SIGHT DISTANCE PROFILE LOOKING LEFT ONTO CLOVE ROAD

SCALE: 1" = 50'



SIGHT DISTANCE PROFILE LOOKING RIGHT ONTO CLOVE ROAD

SCALE: 1" = 50'



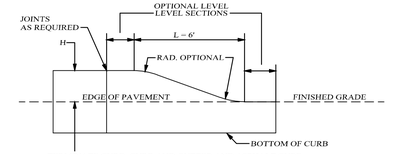
MATERIALS

PIPE ZONE BEDDING MATERIAL:
1. WATER MAINS: SAND OR RUN-OF-BANK GRAVEL, AS APPROVED BY SOILS ENGINEER.
2. SEWER MAINS: 1/4" CHRUSHED STONE.
3. STORM SEWER: 1/4" CRUSHED STONE.

PIPE ZONE BACKFILL MATERIAL:
1. WATER MAINS: ON-SITE MATERIAL FREE OF STONE, CLAY FOREIGN MATERIAL OR FROZEN EARTH AS APPROVED BY SOILS ENGINEER.
2. SEWER MAINS: 1/4" CHRUSHED STONE.
3. STORM SEWER:ON-SITE MATERIAL FREE OF STONE, CLAY FOREIGN MATERIAL OR FROZEN EARTH AS APPROVED BY SOILS ENGINEER.

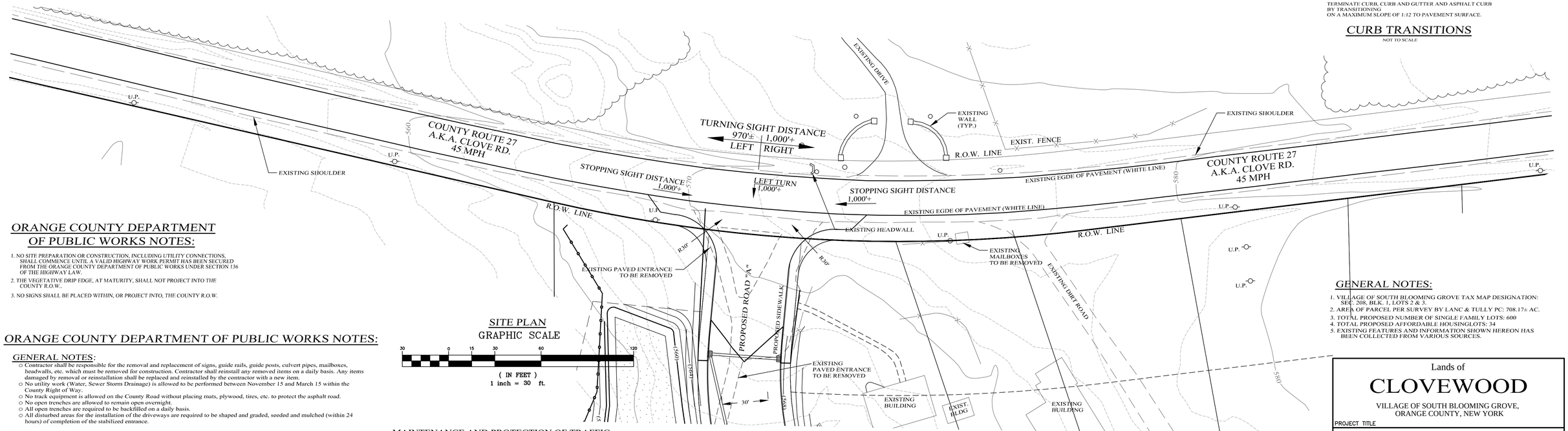
PIPE BEDDING AND BACKFILL DETAIL
(WITHIN TOWN OR COUNTY R.O.W.)

NOT TO SCALE



CURB TRANSITIONS

NOT TO SCALE



ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS NOTES:

1. NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.
2. THE VEGETATIVE DRIP EDGE, AT MATURITY, SHALL NOT PROJECT INTO THE COUNTY R.O.W..
3. NO SIGNS SHALL BE PLACED WITHIN, OR PROJECT INTO, THE COUNTY R.O.W.

ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS NOTES:

GENERAL NOTES:
- Contractor shall be responsible for the removal and replacement of signs, guide rails, guide posts, culvert pipes, mailboxes, headwalls, etc. which must be removed for construction. Contractor shall reinstall any removed items on a daily basis. Any items damaged by removal or reinstallation shall be replaced and reinstalled by the contractor with a new item.
- No utility work (Water, Sewer Storm Drainage) is allowed to be performed between November 15 and March 15 within the County Right of Way.
- No track equipment is allowed on the County Road without placing mats, plywood, tires, etc. to protect the asphalt road.
- No open trenches are allowed to remain open overnight.
- All open trenches are required to be backfilled on a daily basis.
- All disturbed areas for the installation of the driveways are required to be shaped and graded, seeded and mulched (within 24 hours) of completion of the stabilized entrance.

LANDSCAPING:
- Any planting and landscaping features are required to be offset from the property line by 4 feet.

BACKFILL MATERIALS:
- Provide Cross Section Details for Backfill Requirements within the Asphalt, Within 8 feet of the Edge of Pavement, and 8 feet beyond from the Edge of Pavement.
- Dry K Crete shall be used at all road crossing (town roads), commercial entrances, and all trenches within Asphalt or as directed by Orange County Inspector.
- Item No. 4: Item 304.12 Subbase Course Type 2 is required to be used as backfill from edge of pavement out eight feet.
- Excavated material is allowed to be used as backfill material 8 ft beyond the edge of pavement. No boulders/rocks over 12 inches are allowed to be used as backfill.
- Material tickets are required to be provided to the Orange County Inspector on a daily basis for all material used in the County Right of Way.

ASPHALT RESTORATION:
- All pavement restoration needs to be completed on a daily basis.
- Ragged trench edges must saw cut prior to any paving (temporary or permanent).
- It will be the responsibility of the contractor to maintain the 5" of binder course flush
- with the existing pavement surface throughout the duration of the project. Final asphalt
- restoration is to be completed at the completion of the project.
- All temporary asphalt is required to be five (5) inches thick and placed in two (2) lifts of 2 ½ inches.
- All edges of existing asphalt are required to be swept and tack coated prior to paving.
- All Asphalt is required to be saw cut parallel or perpendicular to the trench or to the existing asphalt. No ragged edges are acceptable.
- All saw cutting is required to be performed prior to placing Asphalt Binder. Milling out the jagged edges on the top course or final asphalt will not be accepted by Orange County.
- All Asphalt Joints are required to be crack sealed upon completing final paving.

MAINTENANCE AND PROTECTION OF TRAFFIC:

- Provide notes that all work is to be performed in accordance with Orange County Requirements. The following signs are required to be placed in each direction to perform the work per the approved plans: Road Work 1500 Ft, Road Work 1000 Ft, Road Work 500 Ft, One Lane Road

  Ahead, Flagger Symbol on each approach when taking a travel lane. When work is performed on the shoulder the following signs are required: Road Work 1500 Ft, Road Work 1000 Ft, Road Work 500 Ft, No Shoulder. Flagger Symbols are required to be available for a "No Shoulder" Work Zone in case flaggers are used to direct traffic.
- All Maintenance and Protection of Traffic Construction Signage shall be installed and in place prior any work starting. All construction signage is required to meet the requirements as per the "National Manual of Uniform Traffic Control Devices for Streets and Highways" and NYS Supplement latest edition and revisions. In a case where County requirements are more stringent with regard required MPT signage, the County requirements are the standard to be adhered to. The construction signage shall be installed on permanent posts, on breakaway posts or on wind- masters and covered and uncovered on a daily basis. The contractor must have all the necessary construction signs to perform the work safely; i.e Additional signage: One Lane Road Ahead, Flagger Symbol, if a lane has to be closed to perform work.
- All construction signage is required to be **730-05.02 - ASTM Type III (Class B)** as per NYS Standard Specifications: Construction and Materials. Hi-intensity reflective sheeting
- often referred to as high intensity. It is recommended for highway signs, construction signs, delineators, and other work zone devices.
- Work zone is required to be properly delineated with cones or construction barrels.
- Orange County reserves the right to preclude all work and lane closures during any inclement weather or other unforeseen circumstances (i.e. wet, icy conditions, reduced visibility, traffic accidents on state, county, town or village road, or other emergencies).
- No lanes closures will be permitted from 12 noon prior to a holiday and until 10 am the day after the holiday.
- Flaggers shall not control more than one approach at any time throughout the duration of the work zone. Additional flaggers are required to control all approaches in a work zone.
- Eighteen (18) inch stop and slow paddles are required to direct traffic.
- Two way radios are required for flaggers to communicate between each other.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED CONTOUR LINE (600)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- PROPOSED ROAD CENTERLINE
- EXISTING EDGE OF PAVEMENT

GENERAL NOTES:

1. VILLAGE OF SOUTH BLOOMING GROVE TAX MAP DESIGNATION: SEC. 208, BLK. 1, LOTS 2 & 3.
2. AREA OF PARCEL PER SURVEY BY LANC & TULLY PC: 708.17± AC.
3. TOTAL PROPOSED NUMBER OF SINGLE FAMILY LOTS: 600
4. TOTAL PROPOSED AFFORDABLE HOUSINGLOTS: 34
5. EXISTING FEATURES AND INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES.

Lands of
CLOVEWOOD
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

COUNTY ROAD ENTRANCE PLAN

DRAWING TITLE

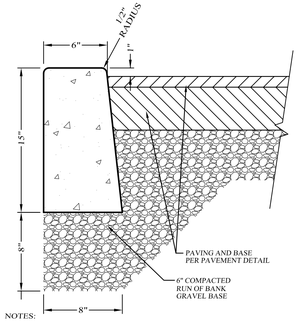
Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
03-26-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	OC 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS NOTED	

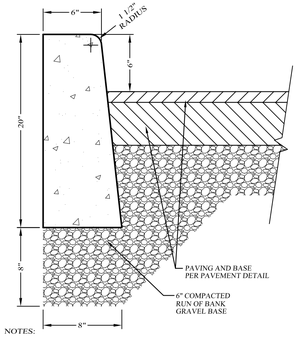


NOTES:

1. CURB SHALL BE CAST IN PLACE CONCRETE WITH CELLULOSE, OR EQUIVALENT, EXPANSION JOINTS INSTALLED AT TEN (10) FOOT INTERVALS.

2. MIX DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES FOR CONCRETE EXPOSED TO FREEZING, THAWING AND DE-ICING CHEMICALS. CONCRETE SHALL HAVE A WATER - CEMENTITIOUS RATIO OF 0.45 AND AIR ENTRAINMENT OF 4 1/2% FOR A 1" NOMINAL AGGREGATE SIZE. CONCRETE TO TEST 4000 PSI AT 28 DAYS.

CONCRETE DROP CURB DETAIL
NOT TO SCALE

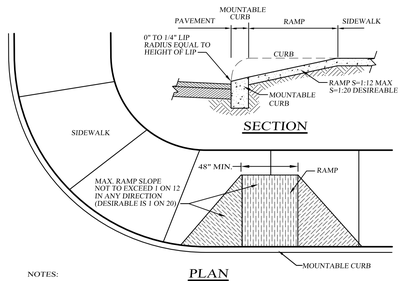


NOTES:

1. CURB SHALL BE CAST IN PLACE CONCRETE WITH CELLULOSE, OR EQUIVALENT, EXPANSION JOINTS INSTALLED AT TEN (10) FOOT INTERVALS.

2. MIX DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES FOR CONCRETE EXPOSED TO FREEZING, THAWING AND DE-ICING CHEMICALS. CONCRETE SHALL HAVE A WATER - CEMENTITIOUS RATIO OF 0.45 AND AIR ENTRAINMENT OF 4 1/2% FOR A 1" NOMINAL AGGREGATE SIZE. CONCRETE TO TEST 4000 PSI AT 28 DAYS.

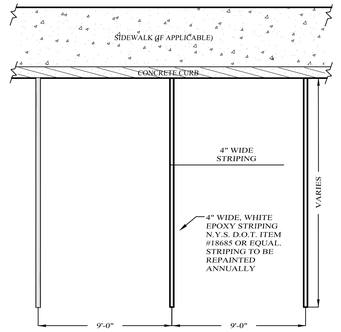
CONCRETE CURB DETAIL (WITHIN SITE)
NOT TO SCALE



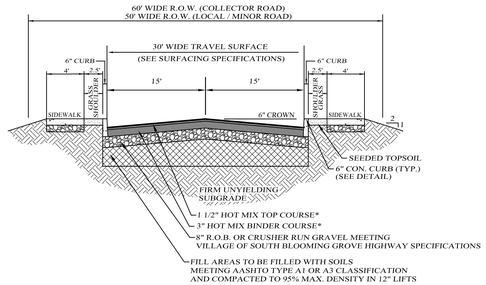
NOTES:

1. CONSTUCTION OF ALL HANDICAP ACCESSABLE FEATURES SHALL CONFORM THE TO LATEST REVISION OF ALL APPLICABLE REGULATORY STANDARDS INCLUDING THE AMERICANS WITH DISABILITIES ACT.

DROP CURB HANDICAP ACCESSIBLE RAMP DETAIL
NOT TO SCALE

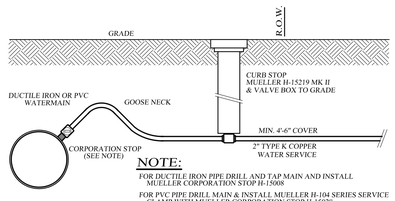


PARKING SPACE STRIPING DETAIL
NOT TO SCALE



*WEARING COURSE, BITUMINOUS MIX COURSE & BASE COURSE PER VILLAGE OF SOUTH BLOOMING GROVE HIGHWAY SPECIFICATIONS.

TYPICAL ROAD CROSS SECTION
NOT TO SCALE



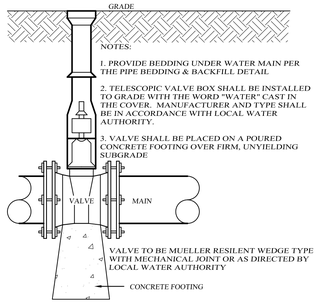
NOTE:

FOR DUCTILE IRON PIPE DRILL AND TAP MAIN AND INSTALL MUELLER CORPORATION STOP H-15008

FOR PVC PIPE DRILL MAIN & INSTALL MUELLER H-104 SERIES SERVICE CLAMP WITH MUELLER CORPORATION STOP H-15028

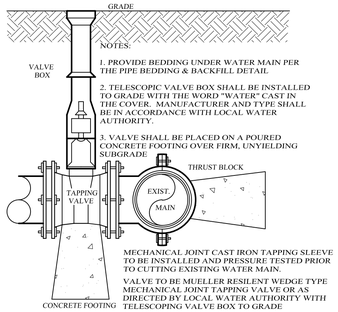
ALL NEW SERVICE LINES SERVING NON-SPRINKLERED BUILDINGS MAY BE COPPER PIPE AND FITTINGS, BUT MUST HAVE A MAXIMUM DIA. OF 1 1/2". SHOULD DESIGN REQUIREMENTS FOR SUCH BUILDINGS SHOW THE NEED FOR A 2" DIA. OR LARGER SERVICE LINE, THE DESIGN MUST CONFORM TO THAT OF A SPRINKLERED BUILDING (3" MIN. DIA WITH DUCTILE IRON).

WATER SERVICE CONNECTION DETAIL (NON SPRINKLERED BUILDINGS)
NOT TO SCALE

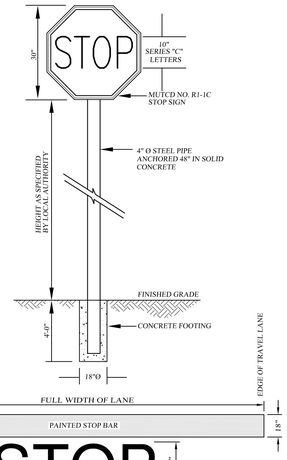


WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST REVSION OF ALL APPLICABLE STANDARDS RELATING TO THE CONSTRUCTION OF WATER WORKS FOR POTABLE CONSUMPTION INCLUDING AWWA, ANSI, ASTM, NSF AND MANUFACTURER, AMOUNG OTHERS.

IN-LINE WATER VALVE DETAIL
NOT TO SCALE

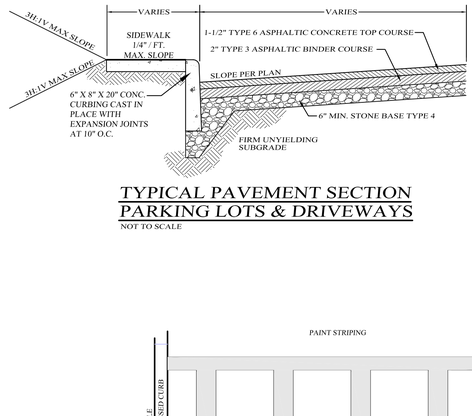


WATER MAIN TAPPING VALVE DETAIL
NOT TO SCALE

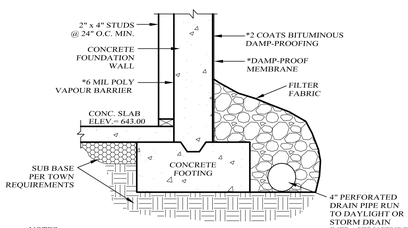


NOTES:
1. INSTALLATION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 640 OF NYS DOT STANDARDS AND SPECIFICATIONS, LATEST REVISION.
2. PAVEMENT SURFACE TO BE CLEANED AND PREPARED PRIOR TO PLACEMENT OF PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 635 OF NYS DOT STANDARDS AND SPECIFICATIONS.
3. REFER TO APPROVED PLANS FOR ACTUAL LOCATION OF STOP LINE. SIZE AND LOCATION TO CONFORM TO MUTCD STANDARDS.
4. REFLECTORIZED PAVEMENT MARKINGS TO BE WHITE EPOXY WITH WET NIGHT VISIBILITY SPHERES. NYS DOT ITEM #18685.
5. ALL PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE NYS MANUAL OF TRAFFIC CONTROL DEVICES 260.

STOP BAR AND SIGN DETAIL
NOT TO SCALE



TYPICAL PAVEMENT SECTION PARKING LOTS & DRIVEWAYS
NOT TO SCALE

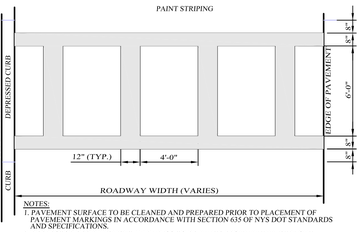


NOTES:

* 1. ALL WATERPROOFING MATERIAL TO BE APPROVED BY THE TOWN ENGINEER.

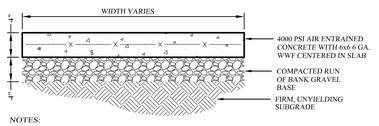
2. STRUCTURAL ELEMENTS OF BUILDING ARE SHOWN AS CONCEPTUAL. ACTUAL PLANS PREPARED BY A LICENSED PROFESSIONAL ARCHITECT, MUST BE SUBMITTED TO THE TOWN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

TYPICAL FOOTING DRAIN
NOT TO SCALE



NOTES:
1. PAVEMENT SURFACE TO BE CLEANED AND PREPARED PRIOR TO PLACEMENT OF PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 635 OF NYS DOT STANDARDS AND SPECIFICATIONS.
2. REFLECTORIZED PAVEMENT MARKINGS TO BE WHITE EPOXY WITH WET NIGHT VISIBILITY SPHERES. NYS DOT ITEM #18685.
3. ALL PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE NYS MANUAL OF TRAFFIC CONTROL DEVICES 260.

CROSS-WALK STRIPING DETAIL
NOT TO SCALE



NOTES:

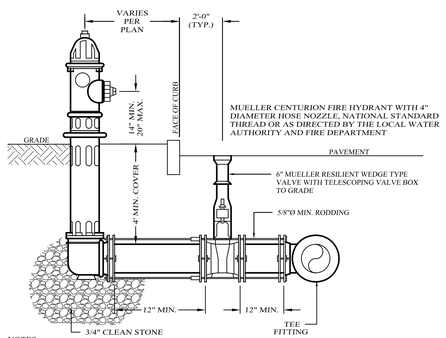
1. SIDEWALKS SHALL BE CAST IN PLACE CONCRETE WITH 1" DEEP JOINTS INSTALLED AT SPACING EQUAL TO THE SIDEWALK WIDTH.

2. CELLULOSE, OR EQUIVALENT, EXPANSION JOINTS SHALL BE INSTALLED 20 FOOT ON CENTER. IF THE SIDEWALK IS POURED AGAINST CONCRETE CURBS, BUILDINGS OR OTHER STRUCTURES, AN EXPANSION JOINT SHALL BE INSTALLED ALONG THE ENTIRE LENGTH OF CONTACT. SIDEWALKS SHALL SLOPE AWAY FROM BUILDINGS TO PROVIDE POSITIVE DRAINAGE AND CONFORM TO THE LATEST REVISION OF ALL APPLICABLE REGULATORY STANDARDS INCLUDING THE AMERICANS WITH DISABILITIES ACT.

3. MIX DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES FOR CONCRETE EXPOSED TO FREEZING, THAWING AND DE-ICING CHEMICALS. CONCRETE SHALL HAVE A WATER - CEMENTITIOUS RATIO OF 0.45 AND AIR ENTRAINMENT OF 4 1/2% FOR A 1" NOMINAL AGGREGATE SIZE. CONCRETE TO TEST 4000 PSI AT 28 DAYS.

4. SIDEWALK SURFACE TO BE A BROOM FINISH WITH GROOVES RUNNING PERPENDICULAR TO THE LENGTH OF SIDEWALK.

CONCRETE SIDEWALK DETAIL
NOT TO SCALE

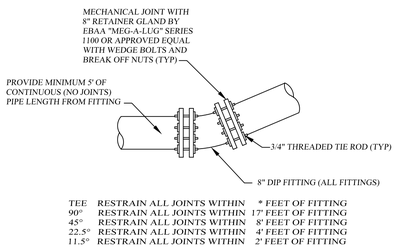


NOTES:
1. INSTALL 1/2 CUBIC YARD 3/4" CLEAN STONE AROUND THE HYDRANT BASE FOR HYDRANT DRAIN.

2. ALL CONNECTIONS TO BE MECHANICAL JOINT TYPE RESTRAINED BY 5/8"Ø RODDING OR AS SPECIFIED BY LOCAL AUTHORITY

WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST REVSION OF ALL APPLICABLE STANDARDS RELATING TO THE CONSTRUCTION OF WATER WORKS FOR POTABLE CONSUMPTION INCLUDING AWWA, ANSI, ASTM, NSF AND MANUFACTURER, AMOUNG OTHERS.

FIRE HYDRANT DETAIL
NOT TO SCALE

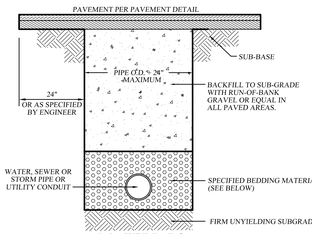


TEE	RESTRAIN ALL JOINTS WITHIN	* FEET OF FITTING
90°	RESTRAIN ALL JOINTS WITHIN	17' FEET OF FITTING
45°	RESTRAIN ALL JOINTS WITHIN	8' FEET OF FITTING
22.5°	RESTRAIN ALL JOINTS WITHIN	4' FEET OF FITTING
11.5°	RESTRAIN ALL JOINTS WITHIN	2' FEET OF FITTING

* THE "T" FITTING SHALL HAVE A MINIMUM LENGTH OF 10' OF PIPE WITHOUT JOINTS OR FITTINGS SHALL BE PROVIDED IN EACH DIRECTION OF THE THROUGH RUN AS MEASURED FROM THE BRANCH.

NOTE: VALUE ABOVE FOR 6" D.I.P. TEST PRESSURE OF 150 PSI, SM SOIL CLASSIFICATION AND FACTOR OF SAFETY OF 2:1

PIPE RESTRAINT DETAIL
NOT TO SCALE



MATERIALS

PIPE ZONE BEDDING MATERIAL:
1. WATER MAINS: SAND OR RUN-OF-BANK GRAVEL, AS APPROVED BY SOILS ENGINEER.
2. SEWER MAINS: 1/4" CHRUSHED STONE.

PIPE ZONE BACKFILL MATERIAL:
1. WATER MAINS: ON-SITE MATERIAL FREE OF STONE, CLAY FOREIGN MATERIAL OR FROZEN EARTH AS APPROVED BY SOILS ENGINEER.
2. SEWER MAINS: 1/4" CHRUSHED STONE.

PIPE BEDDING AND BACKFILL DETAIL
NOT TO SCALE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

SITE DETAILS

DRAWING TITLE

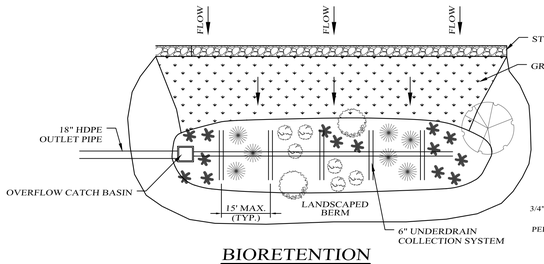
KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
01-29-19	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

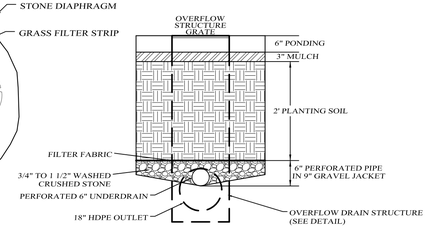
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	D1
CAD #	PROJECT #	SCALE	
14107 SP	14107	AS SHOWN	



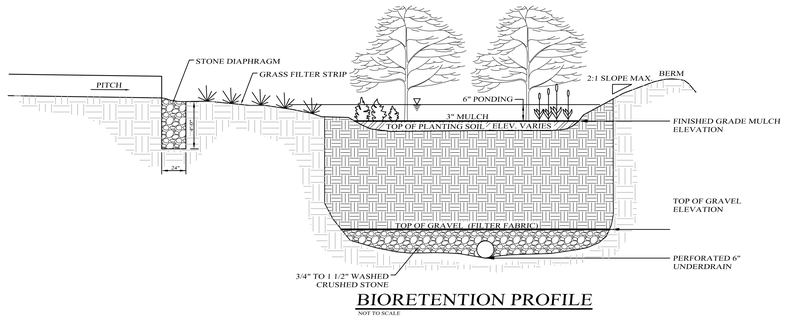
BIORETENTION PLAN VIEW

NOT TO SCALE



TYPICAL SECTION

NOT TO SCALE



BIORETENTION PROFILE

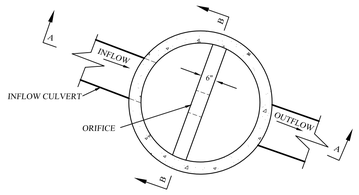
NOT TO SCALE

BIORETENION AREA PLANTING SCHEDULE

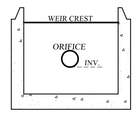
SYMBOL	PLANT NAME	SCIENTIFIC NAME	SIZE	SPACING
	Red Maple	Acer rubrum	B & B 2-1/2" TO 3" CALIPER	15' O.C.
	Tupelo	Nyssa sylvatica vari	B & B 5' - 6' IN HEIGHT	10' O.C.
	Red-Osier Dogwood	Cornus stolonifera	2 GAL.	4' O.C.
	Sweet Pepperbush	Clethra alnifolia	2 GAL.	6' O.C.
	Fox Sedge	Carex vulpinoidea	2 GAL.	2' O.C.
	MULCH			52 C.Y.

NOTES:

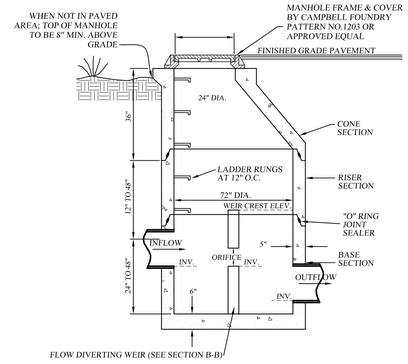
1. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER THE CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED.
2. LANDSCAPING SHALL FOLLOW THE APPROVED PLANS OR A PLAN MUST BE PROVIDED BY A LANDSCAPE ARCHITECT FOR ALL BIORETENTION AREAS.
3. PLANT MATERIALS SHOULD CONFORM TO THE AMERICAN STANDARD NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, AND SHOULD BE SELECTED FROM CERTIFIED, REPUTABLE NURSERIES.
4. SILT/SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH.
5. WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 48 HOURS THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED IN AN ACCEPTABLE MANNER (i.e., LANDFILL) AND REPLACED WITH FRESH MATERIAL.
6. AREAS DEVOID OF MULCH SHALL BE RE-MULCHED ANNUALLY.
7. DEAD OR DISEASED PLANTS SHALL BE REMOVED AND REPLACED AS NECESSARY.
8. GRASS AROUND BIORETENTION AREA SHALL BE MOWED A MINIMUM OF 3 TIMES PER YEAR TO MAINTAIN MAX. GRASS HEIGHT OF 12"
9. FILTERBED AREA SHALL BE INSPECTED FOR SAND BUILD-UP FOLLOWING THE SPRING MELT EVENT.
10. THE MULCH LAYER SHOULD BE STANDARD LANDSCAPE STYLE, SINGLE OR DOUBLE, SHREDDED HARDWOOD MULCH OR CHIPS. THE MULCH LAYER SHOULD BE WELL AGED (STOCKPILED OR STORED FOR AT LEAST 12 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. THE MULCH SHOULD BE APPLIED TO A MAXIMUM DEPTH OF THREE INCHES. GRASS CLIPPINGS SHOULD NOT BE USED AS A MULCH MATERIAL.



PLAN



SECTION B-B



SECTION A-A

MANHOLES SHALL BE PLACED DIRECTLY ON UNDISTURBED NATURAL SOIL OR A MAXIMUM OF 1' OF SAND IF NEEDED TO ACHEIVE PROPER ELEVATION.

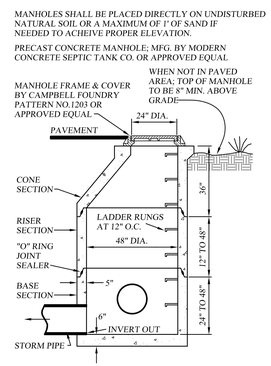
PRECAST CONCRETE MANHOLE; MFG. BY MODERN CONCRETE SEPTIC TANK CO. OR APPROVED EQUAL

OUTLET CONTROL STRUCTURE DRAINAGE MANHOLE DETAIL

NOT TO SCALE

MANHOLES SHALL BE PLACED DIRECTLY ON UNDISTURBED NATURAL SOIL OR A MAXIMUM OF 1' OF SAND IF NEEDED TO ACHEIVE PROPER ELEVATION.

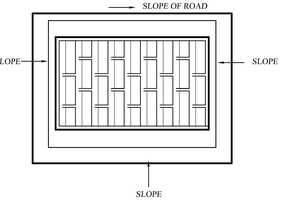
PRECAST CONCRETE MANHOLE; MFG. BY MODERN CONCRETE SEPTIC TANK CO. OR APPROVED EQUAL



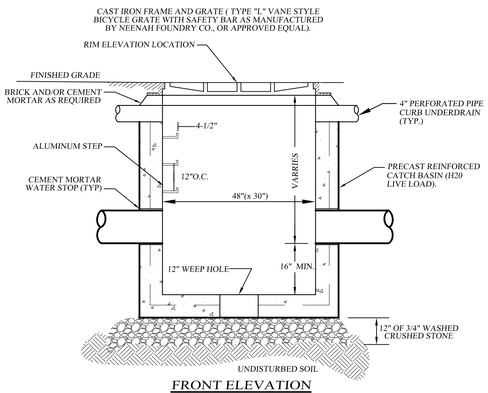
ALL INSIDE CONCRETE SURFACES SHALL BE SEALED WITH TWO COATINGS OF A BITUMINOUS COATING TO MINIMIZE CORROSION.

STORM SEWER MANHOLE DETAIL

NOT TO SCALE



PLAN

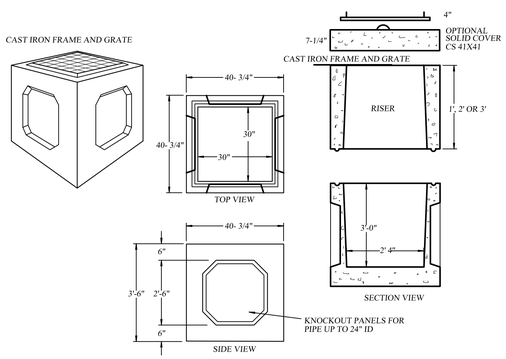


FRONT ELEVATION

NOTES:
1. BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX. 8" LIFTS.
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF CATCH BASIN AND ADEQUATELY MORTARED.
3. PRECAST CONCRETE TO BE 4000 PSI @ 28 DAYS

PRECAST CONCRETE CURB INLET DETAIL

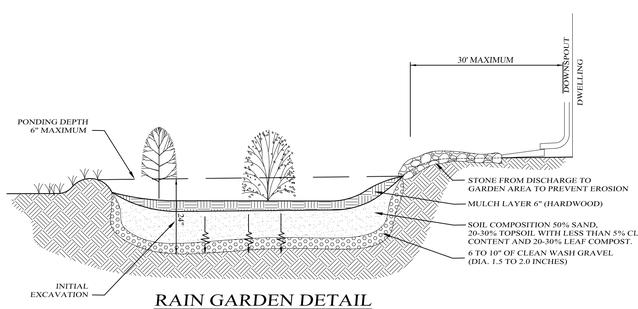
NOT TO SCALE



NOTES:
1. BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX. 8" LIFTS.
2. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF CATCH BASIN AND ADEQUATELY MORTARED.
3. PRECAST CONCRETE TO BE 4000 PSI @ 28 DAYS

PRECAST CONCRETE FIELD INLET DETAIL

NOT TO SCALE

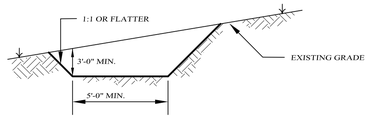


RAIN GARDEN DETAIL

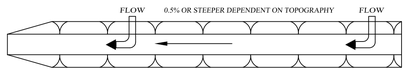
NOT TO SCALE

NOTES:

1. RELATIVLELY FLAT SLOPES ARE REQUIRED TO ACCOMADATE RUNOFF FILTERING THROUGH THE SYSTEM, WHEN MODERATE SLOPES ARE PRESENT THE USE OF A BERM OR WALL MAY BE REQUIRED.
2. RUNOFF MUST ENTER AT THE SURFACE.
3. USE PLANTS AND SHRUBS WHICH ARE NATIVE TO THE SURROUNDING COMMUINITY THE FOLLOWING IS A LIST OF PLANTS AND SHRUBS WHICH CAN BE USED TO STABLIZE THE PONDING AREA BUT ARE NOT LIMITED TO:
   - SHURBS-WITCH HAZEL,WINTERBERRY, ARROWWOOD, BROOK-SIDE ALDER, RED-OSIER DOGWOOD, SWEER PEPPERBUSH.
   - HERBACEOUS PLANTS-CINNAMON FERN, CUTLEAF CONEFLOWER, WOOLGRASS, NEW ENGLAND ASTER, FOX SEDGE, SPOTTED JOE-PYE WEED, SWITCH GRASS, GREAT BLUE LOBELIA, WILD BERGAMOT, RED MILKWEED.
4. WEEDING AND WATERING ARE ESSENTIAL FOR THE FRIST YEAR TO ESTABLISH HARDY GROWTH. REPLACE PLANTS AS REQUIRED.
5. LENGTH TO WIDTH RATIO OF 2:1, WITH THE LONG AXIS PERPENDICULAR TO THE SLOPE OF THE FLOW PATH.



CROSS SECTION



PLAN VIEW

CONSTRUCTION SPECIFICATIONS:

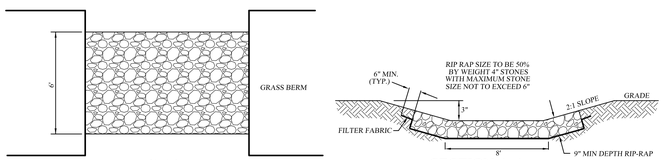
1. ALL TEMPORARY SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED SO TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH IMPEDE NORMAL FLOW.
6. ALL FILLS ARE TO BE MECHANICALLY COMPACTED.
7. ALL EARTH REMOVED AND NOT NEEDED SHALL BE PLACED AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. REEFER TO CHART FOR STABILIZATION OF FLOW CHANNEL.
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC-10 AC)
1.	0.5-3.0 %	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2.	3.1-5.0 %	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3.	5.1-8.0 %	SEED WITH JUTE OR EXCELSIOR:SOD	LINED RIP-RAP 4-8"
4.	8.1-20 %	LINED 4-8" RIP-RAP	RECYCLED CONCRETE EQUIVALENT ENGINEERED DESIGN

PERMANENT DIVERSION SWALE DETAIL

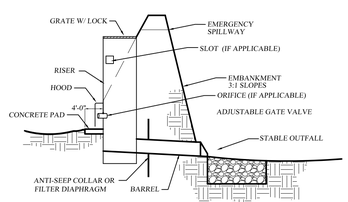
NOT TO SCALE



PLAN SECTION A-A

EMERGENCY SPILLWAY DETAIL

NOT TO SCALE



TYPICAL POND SECTION

NOT TO SCALE

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

DRAINAGE DETAILS

DRAWING TITLE

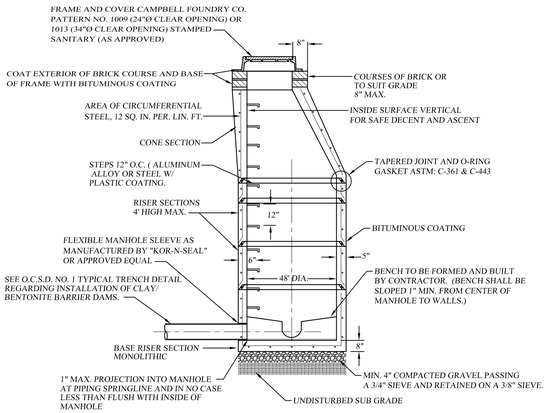
KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
01-29-19	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	DD1
CAD #	PROJECT #	SCALE	
14107 SP	14107	AS SHOWN	



MANHOLE ASSEMBLY

PRECAST REINFORCED CONCRETE MANHOLE

NOT TO SCALE

-MANHOLE TO MEET CURRENT REQUIREMENTS OF ASTM: C-478

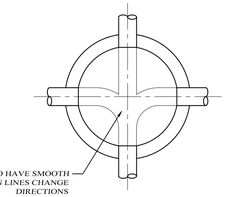
-JOINTS: LOCK TYPE WITH ROUND RUBBER GASKETS. THE WEIGHT OF EACH SECTION MUST MAKE AN INFILTRATION PROOF JOINT BY FORCING THE GASKET TIGHT.

-ALL MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE VILLAGE OF SOUTH BLOOMING GROVE

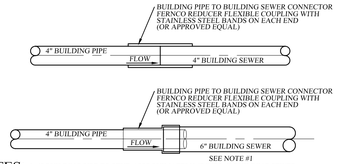
-MANHOLE TO BE SUITABLE FOR H-20 LOADING.

-MANHOLE EXTERIOR MUST BE 100% BITUMINOUS COATING.

-ALL MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS, CONSTRUCTION MATERIALS, DATED 2002 (NEW YORK STATE STANDARD SPECIFICATIONS) WITH ALL ADDENDUMS. ALL FACILITIES MUST BE NEW YORK STATE DEPARTMENT OF TRANSPORTATION APPROVED.



MANHOLE BASE PLAN

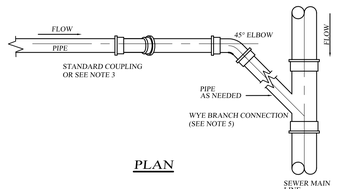


NOTES:

1. 4" BUILDING PIPE TO STUB APPROXIMATELY 6" INTO 6" BUILDING SEWER.
2. EACH 4" BUILDING SEWER MAY BE APPROVED FOR CONSTRUCTION OF SINGLE (1) AND TWO (2) FAMILY DWELLINGS ONLY.
3. EACH 6" BUILDING SEWER SHALL BE REQUIRED FOR ALL COMMERCIAL USES AND SERVE NO MORE THAN TWELVE (12) EQUIVALENT LIVING UNITS, AS DETERMINED BY OCSD1, UNLESS A REQUESTED DEVIATION IS APPROVED IN WRITING BYLOCAL AUTHORITY.
4. BUILDING PIPE SHALL NOT EXCEED MORE THAN 10' FROM EXTERIOR OF BUILDING FOUNDATION.
5. 6" BUILDING PIPE TO 6" BUILDING SEWER SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 262 HYRAX COUPLING (OR APPROVED EQUAL).

BUILDING PIPE TO BUILDING SEWER CONNECTION

NOT TO SCALE



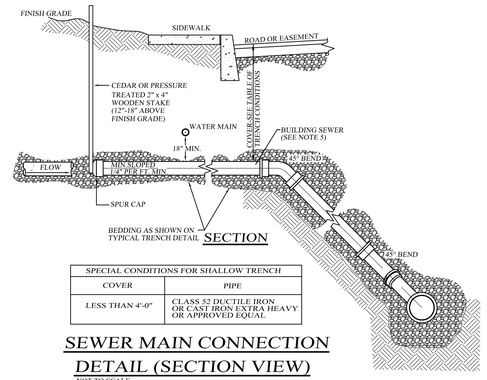
PLAN

NOTES:

1. ALL APPROVED BUILDING SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
2. MINIMUM HORIZONTAL SEPARATION BETWEEN SPUR CAP AND SIDEWALK SHALL BE 2'-0", IN ALL CASES THE SPUR CAP LOCATION SHALL EXTEND A MINIMUM HORIZONTAL DISTANCE OF 2'-0" ONTO ALL BUILDING LOT PROPERTIES.
3. TRANSITION BETWEEN DIFFERENT PIPE MATERIAL (AS APPROVED) SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 262 HYMAX COUPLING (OR APPROVED EQUAL).
4. WYE BRANCH CONNECTION SHALL BE A FITTING CONSTRUCTED SPECIFICALLY FOR THE INSTALLED MAIN LINE SEWER MATERIAL CLASS (OR APPROVED EQUAL).
5. THE BUILDINGS SEWER SHOWN FROM THE MAIN LINE SOURCE WYE BRANCH CONNECTION FITTING TO THE SPUR CAP SHALL MEET THE SPECIFICATIONS SHOWN FOR ii) 6" SEWER SERVICE LATERALS.
6. 4" BUILDING SEWER LATERAL MAY BE APPROVED FOR CONSTRUCTION OF SINGLE (1) AND TWO (2) FAMILY DWELLINGS ONLY. ALL OTHER BUILDING LATERAL SEWERS (INCLUDING COMMERCIAL) SHALL BE 6" IN DIA. -

SEWER MAIN CONNECTION DETAIL (PLAN VIEW)

NOT TO SCALE

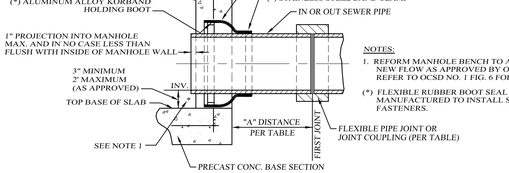


SECTION

SPECIAL CONDITIONS FOR SHALLOW TRENCH	
COVER	PIPE
LESS THAN 4'-0"	CLASS 52 DUCTILE IRON OR CAST IRON EXTRA HEAVY OR APPROVED EQUAL

SEWER MAIN CONNECTION DETAIL (SECTION VIEW)

NOT TO SCALE



NOTES:

1. REFORM MANHOLE BENCH TO ACCOMODATE NEW FLOW AS APPROVED BY OCSD NO. 1 IN ACCORDANCE TO OCSD NO. 1 FIG. 6 FOR TYP. DETAILS.

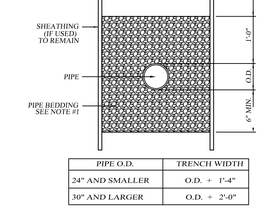
(*) FLEXIBLE RUBBER BOOT SEAL SHALL BE MANUFACTURED TO INSTALL SHOWN FASTENERS.

FLEXIBLE JOINT REQUIREMENTS

SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE FT.
VIRTIFIED CLAY	STD. ELASTOMETRIC GASKETED PIPE JOINT ONLY	3" MAX.
ABS TRUSS	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX
CAST IRON (EXTRA HEAVY) OR DUCTILE IRON	STD. ELASTOMETRIC GASKETED PIPE JOINT ONLY	10' MAX
PVC TRUSS	STD. ELASTOMETRIC GASKETED PIPE JOINT ONLY	3" MAX.
PVC TRUSS	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX
PVC SDR 26	STD. ELASTOMETRIC GASKETED PIPE JOINT ONLY	3" MAX.
PVC SDR 26	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX
PVC SDR 35	STD. ELASTOMETRIC GASKETED PIPE JOINT ONLY	3" MAX.
PVC SDR 35	STD. SOLVENT WELDED PIPE JOINT ONLY	10' MAX

CORED HOLE FLEXIBLE PIPE TO M.H. JOINT

NOT TO SCALE



PIPE O.D.	TRENCH WIDTH
24" AND SMALLER	O.D. + 1'-4"
30" AND LARGER	O.D. + 2'-0"

TYPICAL TRENCH DETAIL (SANITARY SEWER)

NOT TO SCALE

Notes:

1) PIPE BEDDING SHALL BE A CLASS I ASTM D2321 EMBEDMENT MATERIAL THAT SHALL BE EITHER CRUSHED STONE OR WASHED GRAVEL PASSING A 3/4 " SIEVE AND RETAINED ON A 3/8 " SIEVE. THE EMBEDMENT MATERIAL SHALL BE HAND TAMPED AND COMPACTED TO 90 % OF THE MAXIMUM DENSITY OF THE EMBEDMENT MATERIAL AS DETERMINED BY STANDARD PROTECTOR TEST IN ACCORDANCE WITH AASHTO DESIGNATION T-99. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A GO-NO-GO TESTING GAUGE, AS DEFINED IN THE GREEN-TITE (TRADEMARK) PVC GRAVITY SEWER PIPE INSTALLATION GUIDE AS PUBLISHED BY J-M PIPE (OR APPROVED EQUAL) FOR TESTING DEFLECTION OF MAIN LINE SEWER PIPE, AS DIRECTED BY OCSD. MAXIMUM MAIN LINE SEWER DEFLECTION SHALL BE NO GREATER THAN 5%.

2) BACKFILL FROM 12 IN. TO 24 IN. ABOVE THE PIPE EMBEDMENT MATERIAL SHALL BE FINE EARTH FREE FROM CINDERS AND SHALL BE MECHANICALLY COMPACTED. REMAINING BACKFILL SHALL BE FREE FROM LARGE CLODS, NATURAL DEBRIS, ROCKS, AND CINDERS.

3) PLACE EMBEDMENT MATERIAL BY HAND AND HAND COMPACT UNDER AND AROUND SIDES OF PIPE. PLACE EMBEDMENT MATERIAL IN 6" LAYERS ABOVE TOP OF PIPE, AND HAND COMPACT TO A POINT 12 INCH MAXIMUM ABOVE THE TOP OF PIPE.

4) THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPETENT PERSON DURING ALL PHASES OF CONSTRUCTION WHOSE DUTY SHALL BE TO INSURE THAT ALL PHASES OF CONSTRUCTION ARE IN FULL COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES, RULES, REGULATIONS AND LAWS INCLUDING, BUT NOT LIMITED TO, UNITED STATES DEPARTMENT OF LABOR FOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND N.Y.S. DEPARTMENT OF LABOR FOR SECTION 1910.146 PERMIT REQUIRED CONFINED SPACE ENTRY, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION SECTION 1926.650 EXCAVATION GENERAL PROTECTION REQUIREMENTS AND OSHA SECTION 1926.651 TRENCHING AND SHORING,STATE OF NEW YORK UNIFORM FIRE PREVENTION AND BUILDING CODES AND NATIONAL FIRE PROTECTION ASSOCIATION CODES.

5) ALL APPROVED MAIN LINE SEWER PIPE SHALL BE THE SAME MATERIAL FROM MAN-HOLE TO MAN-HOLE.

6) FILL SECTION AREA MUST BE GRADED WITH THE PLACEMENT OF SUITABLE SOIL MATERIAL, AS DETERMINED BY THE PROJECT SITE ENGINEER, IN 12" (MAX) LAYERS COMPACTED TO 95% OF THE MAXIMUM DENSITY OF THE SOIL AS DETERMINED BY THE STANDARD PROTECTOR TEST (ASSHTO DESIGNATION T-99) TO 2'-0" (MIN.) ABOVE TOP OF PIPE AT A MINIMUM WIDTH OF O.D. + 4'-0" BEFORE TRENCH EXCAVATING.

7) WHERE ROCK IS ENCOUNTERED IN TRENCH BOTTOM, UNDERCUT MUST BE MADE BETWEEN 12" MIN. TO 24" MAX.

8) WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN TRENCH BOTTOM, UNDERCUT TO SUITABLE MATERIAL (AS APPROVED BY TOWN ENGINEER).

- SANITARY SEWER SPECIFICATIONS (FOR BUILDING SEWERS AND SEWER MAIN LINE)

I) REQUIRED MAIN LINE SEWER (OR APPROVED EQUAL):

A) ABS-TRUSS PIPE:
- I) PIPE: STAMPED ASTM D2680.
- II) FITTINGS: STAMPED ASTM D2680.
- III) JOINTS: SOLVENT WELD, ASTM D2235.

B) PVC-TRUSS PIPE:
- I) PIPE: STAMPED ASTM D2680.
- II) FITTINGS: STAMPED ASTM D2680.
- III) JOINTS: SOLVENT WELD, ASTM D2564 OR ELASTOMERIC (GASKET).

C) PVC - SDR 26 HEAVY WALL PIPE
- I) PIPE (8"-15" DIAMETER): STAMPED ASTM 3034. PIPE (18" AND GREATER DIAMETER): STAMPED ASTM F679.
- II) FITTINGS: STAMPED ASTM 3034 OR F679.
- III) JOINTS: SOLVENT WELD ASTM 2564 OR ELASTOMERIC (GASKET).

D) PVC - SDR 35 SOLID WALL PIPE
- I) PIPE (8"-15" DIAMETER): STAMPED ASTM D3034. PIPE (18" OR GREATER DIAMETER): STAMPED ASTM F769.
- II) FITTINGS: STAMPED ASTM 3034 OR F679.
- III) JOINTS: BELL & SPIGOT WITH ELASTOMETRIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.

II) REQUIRED 6" BUILDING LATERAL SEWER (OR APPROVED EQUAL):

A) PVC - SDR 35 SOLID WALL PIPE
- I) PIPE STAMPED ASTM D3034 AND SDR 35.
- II) FITTINGS: STAMPED SDR 35 AND ASTM 3034.
- III) JOINTS: BELL & SPIGOT WITH ELASTOMETRIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.

B) PVC - SDR 26 HEAVY WALL PIPE
- I) PIPE STAMPED ASTM D3034 AND SDR 26.
- II) FITTINGS: STAMPED D3034 AND SDR 26.
- III) JOINTS: BELL & SPIGOT WITH ELASTOMETRIC GASKET ASTM D3034 OR SOLVENT WELD ASTM D2564.

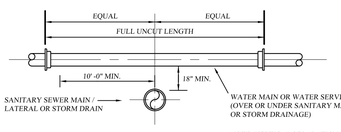
C) PVC - SDR 23.5 ABS SOLID WALL PIPE
- I) PIPE STAMPED ASTM D2751 AND SDR 23.5.
- II) FITTINGS: STAMPED SDR 23.3 AND ASTM D2751.
- III) JOINTS: SOLVENT WELD ASTM D2564.

III) OTHER REQUIRED PIPE MATERIALS FOR 6" LATERAL AND SEWER MAIN LINE (OR APPROVED EQUAL):

A) CAST IRON, EXTRA HEAVY, COATED, HUB & PLAIN END, ASTM C-74 WITH ELASTOMERIC COMPRESSION GASKET (ASTM C-564).

B) DUCTILE IRON PIPE: CLASS 52, CEMENT LINED AND TAR COATED INSIDE AND OUT.

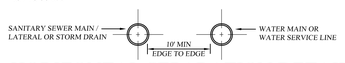
SEWER MAIN CONNECTION DETAIL NOTES



NOTE: VERTICAL SEPARATION BETWEEN STORM DRAINAGE & SEWER TO BE 6" MINIMUM

VERTICAL SEPARATION DETAIL

NOT TO SCALE



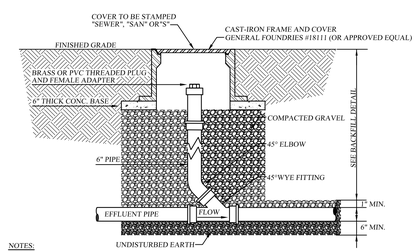
HORIZONTAL SEPARATION DETAIL

NOT TO SCALE

NOTE: THE SEPARATION REQUIREMENT SHALL CONFORM TO CURRENT ORANGE COUNTY DEPARTMENT OF HEALTH STATUES, CODES, RULES, REGULATIONS AND LAWS AS THEY APPLY. ANY DEVIATION FROM THE ABOVE SEPARATION REQUIREMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE ORANGE COUNTY DEPARTMENT OF HEALTH.

WATER/SEWER SEPARATION REQUIREMENTS

NOT TO SCALE



NOTES:

1. EACH BUILDING SEWER SHALL HAVE A CLEANOUT INSTALLED APPROXIMATELY 2' DOWNSTREAM OF THE BUILDING PIPE TO BUILDING SEWER CONNECTION. THEREAFTER, CLEANOUTS SHALL BE INSTALLED ALONG THE BUILDING SEWER APPROXIMATELY EVERY 100' (MAXIMUM), FOR THE PURPOSE OF CLEANOUT LOCATIONS. DISTANCE SHALL BE MEASURED FROM THE FIRST CLEANOUT LOCATED DOWNSTREAM OF THE HOUSE PIPE TO BUILDING SEWER CONNECTION, HENCE DOWNSTREAM ALONG THE BUILDING SEWER TO THE CENTER OF THE SEWER MAIN LINE (GENERALLY LOCATED IN THE CENTER OF THE STREET).
2. A CLEANOUT LOCATED IN A ROAD, DRIVEWAY OR PARKING AREA SHALL REQUIRE A CAMBELL FOUNDARY #4164 CAST IRON FRAME AND COVER. (OR APPROVED EQUAL)

BUILDING SEWER CLEAN-OUT DETAIL

NOT TO SCALE

GENERAL NOTES:

1. WATER MAIN LOCATION MUST BE VERIFIED IN FIELD (V.I.F.) BEFORE ANY CONSTRUCTION WORK BEGINS. A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT IS REQUIRED FOR CONNECTION.
2. A PERMIT FOR SEWER CONNECTION SHALL BE OBTAINED FROM THE VILLAGE OF SOUTH BLOOMING GROVE. PRIOR TO CONSTRUCTION.
3. A HIGHWAY WORK PERMIT SHALL BE OBTAINED FROM THE TOWN OF NEWBURGH PUBLIC WORKS PRIOR TO CONSTRUCTION.
4. "THE MORE STRICT OF ANY REQUIREMENT, CODE, RULE, REGULATION AND LAW ESTABLISHED BY THE TOWN OF NEWBURGH OR OTHER GOVERNMENTAL AGENCY, INCLUDING BUT NOT LIMITED TO THE ORANGE COUNTY DEPARTMENT OF HEALTH, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, U.S.CORPS OF ENGINEERS, U.S. ENVIRONMENTAL PROTECTION AGENCY, UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND NEW YORK STATE DEPARTMENT OF LABOR FOR SANITARY SEWER SIZE, SLOPE, ALIGNMENT, MATERIALS OF CONSTRUCTION AND APPURTENANCES AND METHODS FOR EXCAVATING, PIPE PLACEMENT, JOINTING, TESTING AND TRENCH BACKFILLING SHALL BE COMPILED WITH DURING ALL PHASES OF CONSTRUCTION."
5. " ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS THAT ARE APPROVED BY THE LOCAL AURHORITY. ANY DEVIATION FROM THE APPROVED PLANS AND/ OR SPECIFICATIONS SHALL REQUIRE REVIEW AND APPROVAL BY THE SAME LOCAL AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE PROJECT ENGINEER AND THE MUNICIPAL ENGINEER OF ANY PLANNED DEVIATION(S) FROM THE APPROVED PLAN AND /OR SPECIFICATIONS."

NOTE
CONTACT UNDERGROUND FACILITIES PROTECTION ORGANIZATION 3 DAYS PRIOR TO CONSTRUCTION @ "DIG SAFELY N.Y. 800-962-7962".

Lands of

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE, ORANGE COUNTY, NEW YORK

PROJECT TITLE

SANITARY SEWER DETAILS

DRAWING TITLE

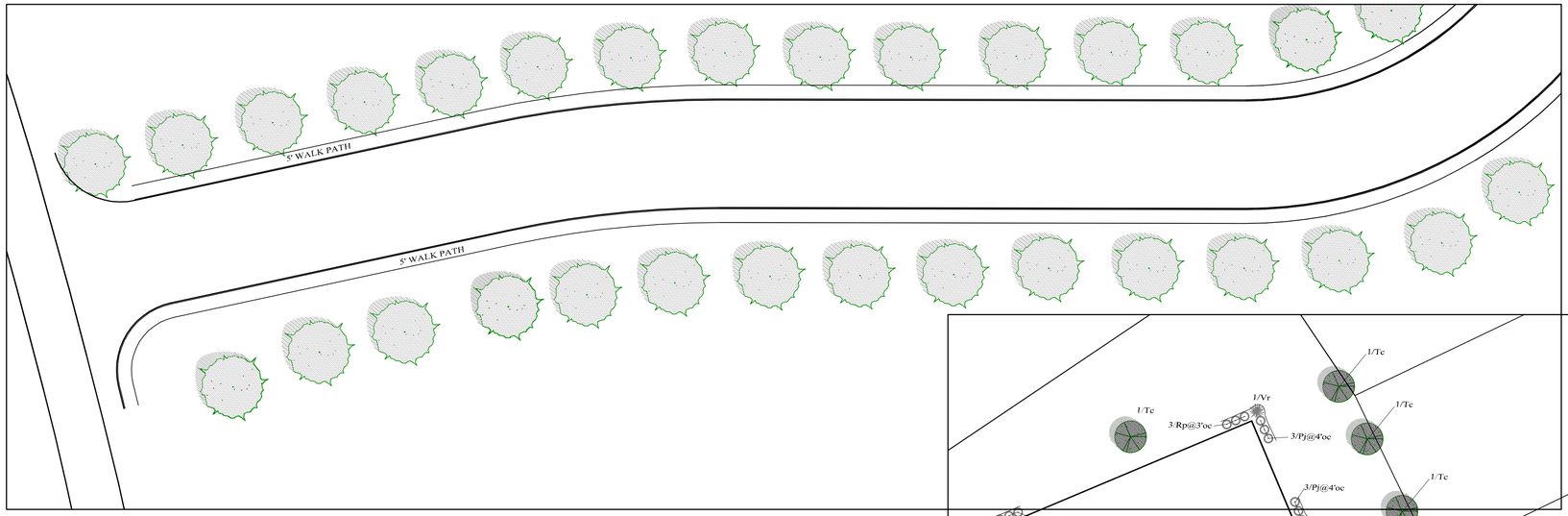
KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

DATE	REVISIONS
01-29-19	INITIAL PREPARATION

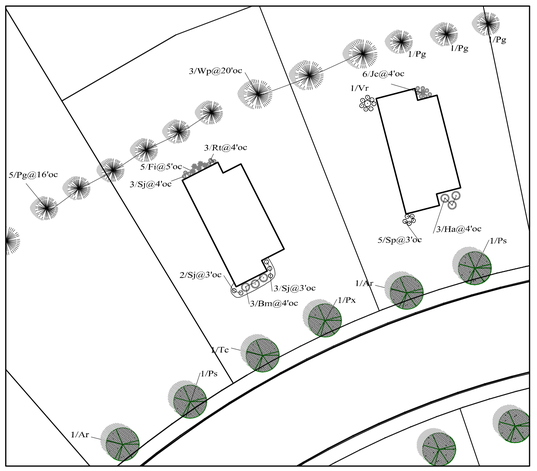
KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

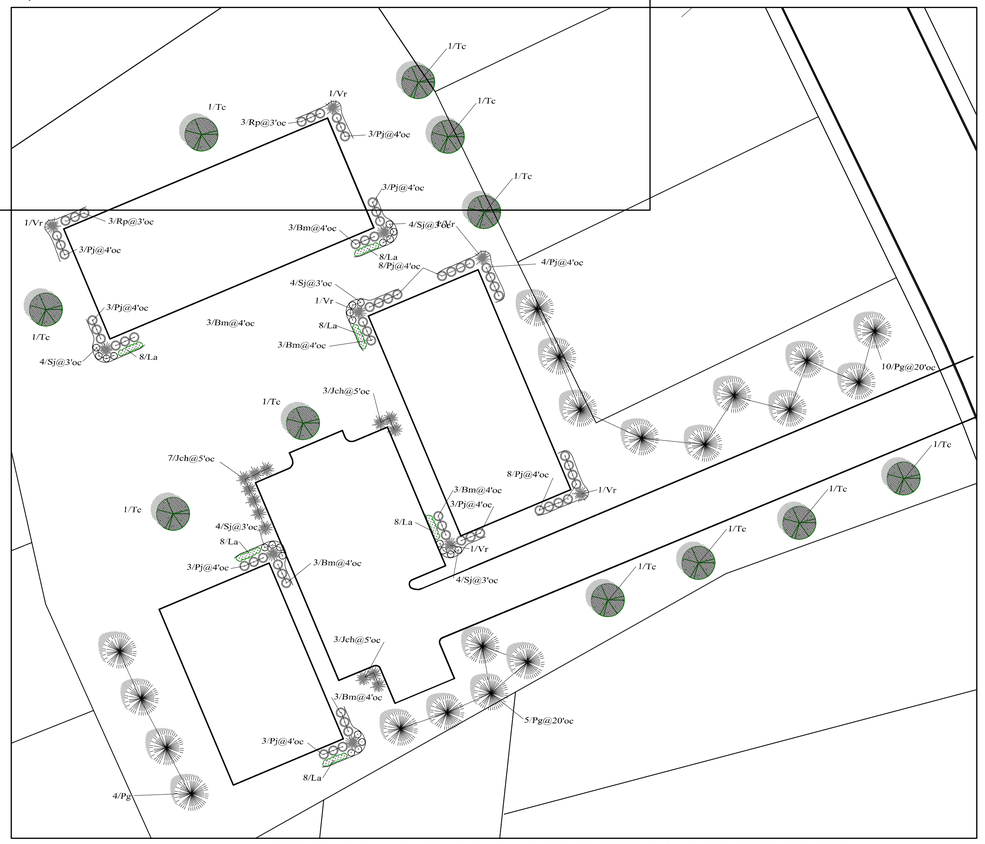
D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	SD1
CAD #	PROJECT #	SCALE	
14107 SP	14107	AS SHOWN	



TYPICAL LANDSCAPING FOR ENTRANCE DETAIL



TYPICAL LANDSCAPING AROUND THE UNITS- NORTH AND SOUTH EXPOSURE



TYPICAL LANDSCAPING AROUND THE COMMUNITY CENTER

GENERAL PLANTING NOTES:

1. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE OF PROJECT PLANTING. DEAD, DYING, UNHEALTHY AND/OR PLANTS IN POOR CONDITION SHALL BE REPLACED IN THE SAME PLANTING SEASON THAT THE LANDSCAPE ARCHITECT HAS DEEMED THE PLANT UNACCEPTABLE. PLANTINGS THAT REQUIRE REPLACEMENT SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
2. EXISTING VEGETATION AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE TOPSOILED AND SEEDED UPON COMPLETION OF WORK.
3. NEW PLANTING ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING THE PLANT.
4. ALL PLANTINGS SHOWN ON APPROVED SITE DEVELOPMENT PLAN OR SPECIAL PERMIT PLAN SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF CONSTRUCTION AND PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT GROWING SEASON.
5. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED.
6. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND OBTAIN AS-BUILT INFORMATION. DRAWINGS WERE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED OF ANY DISCREPANCIES.
7. CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND OTHER OBSTRUCTIONS AND COORDINATE WITH OWNER'S REPRESENTATIVE IN WRITING PRIOR TO INITIATING OPERATIONS.
8. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING). PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE LISTED ON THE PLANT LIST.
9. CONTRACTOR SHALL FIELD STAKE THE LOCATIONS OF ALL PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT.
10. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
11. ALL TREES PLANTED IN LAWN AREA SHALL RECEIVE A 4' DIAMETER MULCH RING AT A DEPTH OF 4".
12. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
13. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND SPECIFICATIONS FOR FURTHER AND COMPLETE INSTRUCTIONS.

PERMANENT SEEDING SCHEDULE

1. TOPSOIL SHALL BE SPREAD TO A COMPACTED UNIFORM THICKNESS OF 4".
2. TOPSOIL SURFACE SHALL BE FINELY GRADED AND LOOSENED BY MECHANICAL RAKES TO ENSURE SEED ACCEPTANCE AND SEED TO SOIL CONTACT.
3. FERTILIZER SHALL BE APPLIED AT 6 LBS. OF 5-10-10 COMMERCIAL FERTILIZER/1000 SQ. FT.
4. SEEDING SHALL BE INSTALLED AT 5 LBS./1000 SQ. FT. OF:
   60% KENTUCKY BLUE GRASS
   20% CHEWINGS FESCUE
   20% PERENNIAL RYE

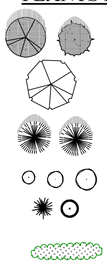
PLANTING SCHEDULE

TREES & SHRUBS	SPRING PLANTING	FALL PLANTING
EVERGREEN	APRIL 1 - JUNE 30	SEPT. 1 - OCT. 15
DECIDUOUS	MARCH 1 - JUNE 30	OCT. 1 - DEC. 1

STREET TREE NOTE

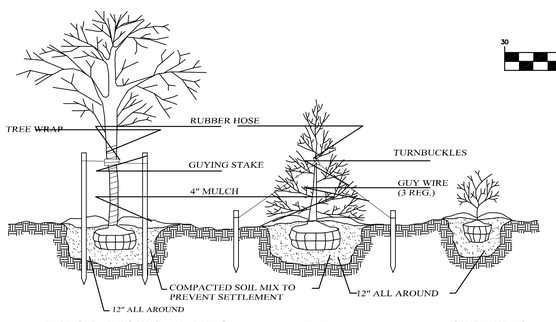
REFER TO PROPOSED STREET TREE PLAN FOR ALL PROPOSED STREET TREE LOCATION, DESIGN AND SPECIFICATIONS.

PLANTS LEGEND



PLANTS LIST

TYPE	KEY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
DECIDUOUS TREES	Ar	Acer Rubrum	Red Maple	3"-3-1/2" c	B&B
	Pc	Pyrus Calleryana "Whitehouse"	Whitehouse Callery Pear	2"-2-1/2" c	B&B
	Ps	Prunus Serrulata "Kwanzan"	Kwanzan Cherry	2"-2-1/2" c	B&B
	Px	Prunus x Yedoensis	Yoshino Cherry	2"-2-1/2" c	B&B
	Tc	Tilia Cordata "Greenspire"	Greenspire Linden	3"-3-1/2" c	B&B
EVERGREEN TREES	Pg	Picea Glauca	White Spruce	7' - 8' hgt	B&B
	Wp	Pinus Strobus	White Pine	7' - 8' hgt	B&B
EVERGREEN SHRUBS	Bm	Buxus Microphylla Japonica "Winter Gem"	Winter Gem Boxwood	30"-34"	Container
	Ha	Rhododendron Obtusum	Hiryu Azalea	30"-34"	Container
	Jc	Juniperus Chinensis "Gold Coast"	Gold Coast Juniper	30"-34"	Container
	Jch	Juniperus Chinensis "Hetzii"	Hetzii Juniper	40"-44"	Container
	Pj	Pieris Japonica	Japanese Andromeda	30"-36"	B&B
	Rh	Rhododendron "Nova Zembla"	Nova Zembla Rhododendron	34"-36"	B&B
	Vr	Viburnum Rhytidophyllum	Leatherleaf Viburnum	34"-36"	B&B
DECIDUOUS SHRUBS	Fi	Forsythia x Intermedia	Spring Glory Forsythia	34"-36"	B&B
	Rt	Cornus Alba Sibirica	Red Twig Dogwood	30"-34"	Container
	Sj	Spiraea Japonica	Little Princess Spiraea	24"-30"	Container
	Sp	Syringa Patula "Miss Kim"	Miss Kim Lilac	30"-34"	Container
PERENNIALS	La	Lavandula Angustifolia	English Lavender	24" oc	1 gal.



DECIDUOUS TREES EVERGREEN TREES SHRUBS
PLANTING & GUYING DETAIL

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

PRELIMINARY LANDSCAPING PLAN

DRAWING TITLE

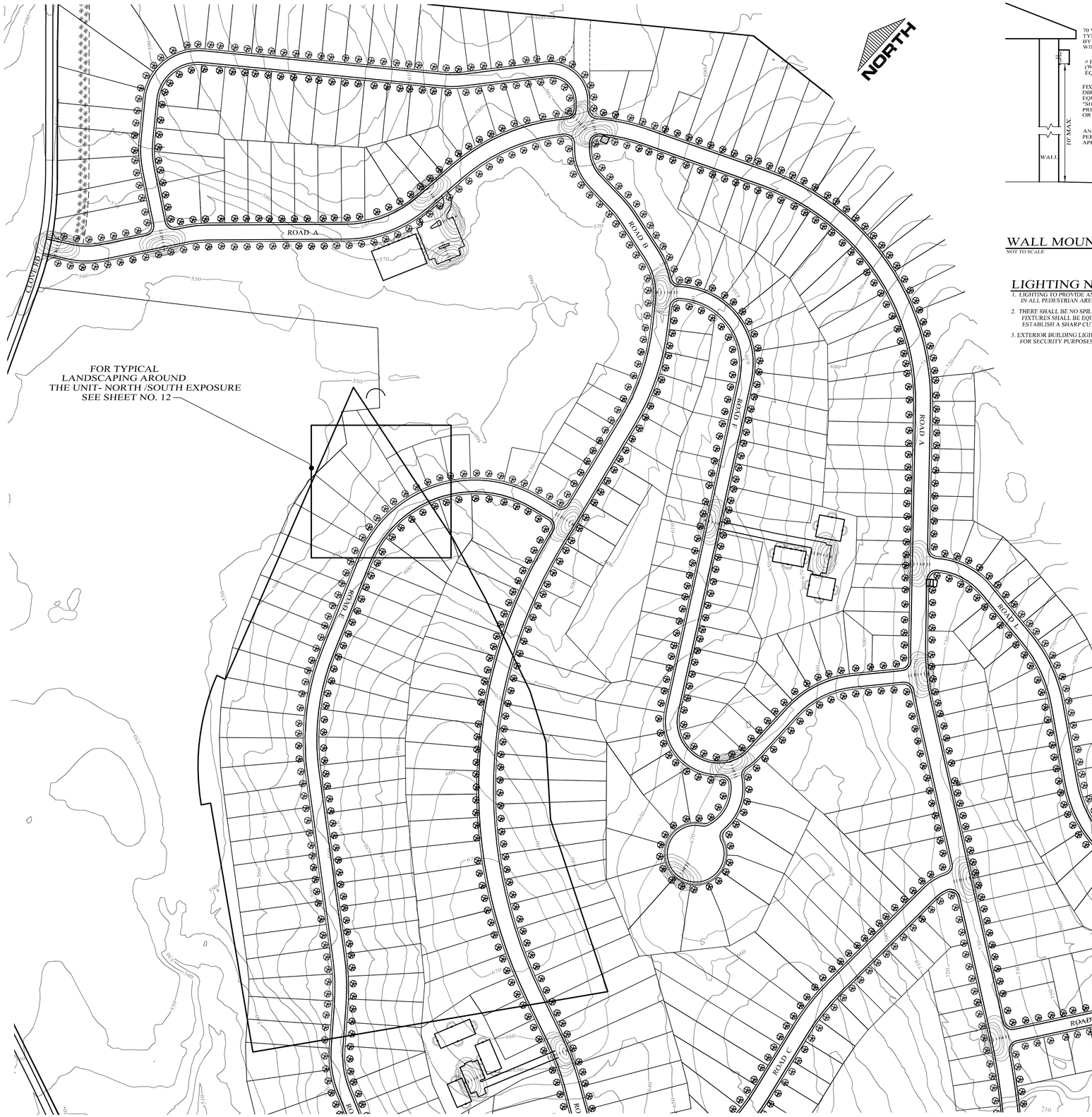
KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

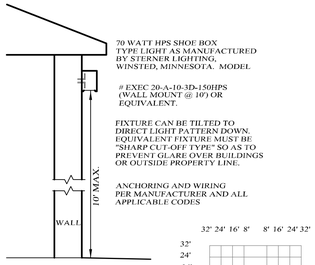
DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
08-06-18	GENERAL REVISION
03-18-18	INITIAL PREPARATION

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	LD 1
CAD # 14107	PROJECT #	SCALE	
SP Light Land	14107.0	AS SHOWN	



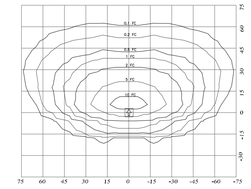


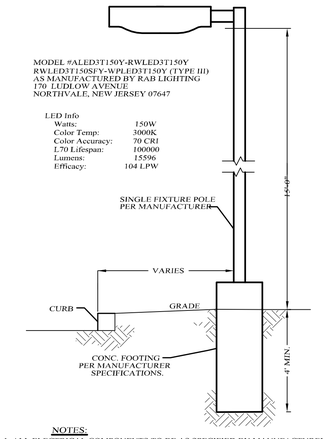
WALL MOUNTED LIGHT DETAIL

NOT TO SCALE

LIGHTING NOTES:

1. LIGHTING TO PROVIDE AN AVERAGE 1.0 FOOT-CANDLE LUMINESCENCE IN ALL PEDESTRIAN AREAS
2. THERE SHALL BE NO SPILL OVER OF GLARE OUTSIDE PROPERTY LINE. FIXTURES SHALL BE EQUIPPED WITH "HOUSE SIDE SHIELDS" TO ESTABLISH A SHARP CUTOFF OF LIGHT BEHIND THE PROPOSED FIXTURE.
3. EXTERIOR BUILDING LIGHTS SHALL UTILIZE A MOTION SENSOR SYSTEM FOR SECURITY PURPOSES.

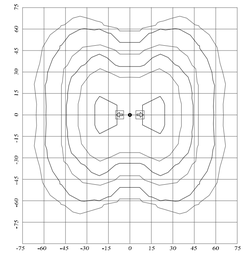


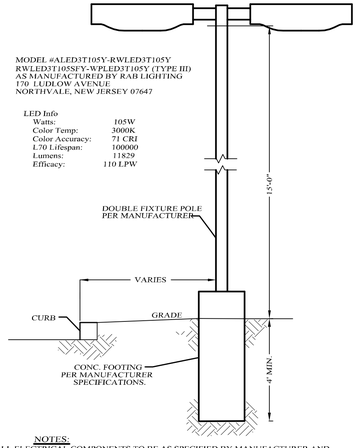


NOTES:
1. ALL ELECTRICAL COMPONENTS TO BE AS SPECIFIED BY MANUFACTURER AND INSTALLED IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES.

POLE MOUNTED SINGLE LIGHT DETAIL

NOT TO SCALE





NOTES:
1. ALL ELECTRICAL COMPONENTS TO BE AS SPECIFIED BY MANUFACTURER AND INSTALLED IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES.

POLE MOUNTED DOUBLE LIGHT DETAIL

NOT TO SCALE

GRAPHIC SCALE

160 0 80 160 320 720

(IN FEET)
1 inch = 160 ft.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

PRELIMINARY LIGHTING PLAN

DRAWING TITLE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
08-06-18	GENERAL REVISION
03-18-18	INITIAL PREPARATION

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	LT 2
CAD # 14107 SP Light Land	PROJECT # 14107.0	SCALE AS SHOWN	



GRAPHIC SCALE

160 0 80 160 320 720

(IN FEET)
1 inch = 160 ft.

LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- PROPOSED SETBACK LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

PRELIMINARY LIGHTING PLAN

DRAWING TITLE

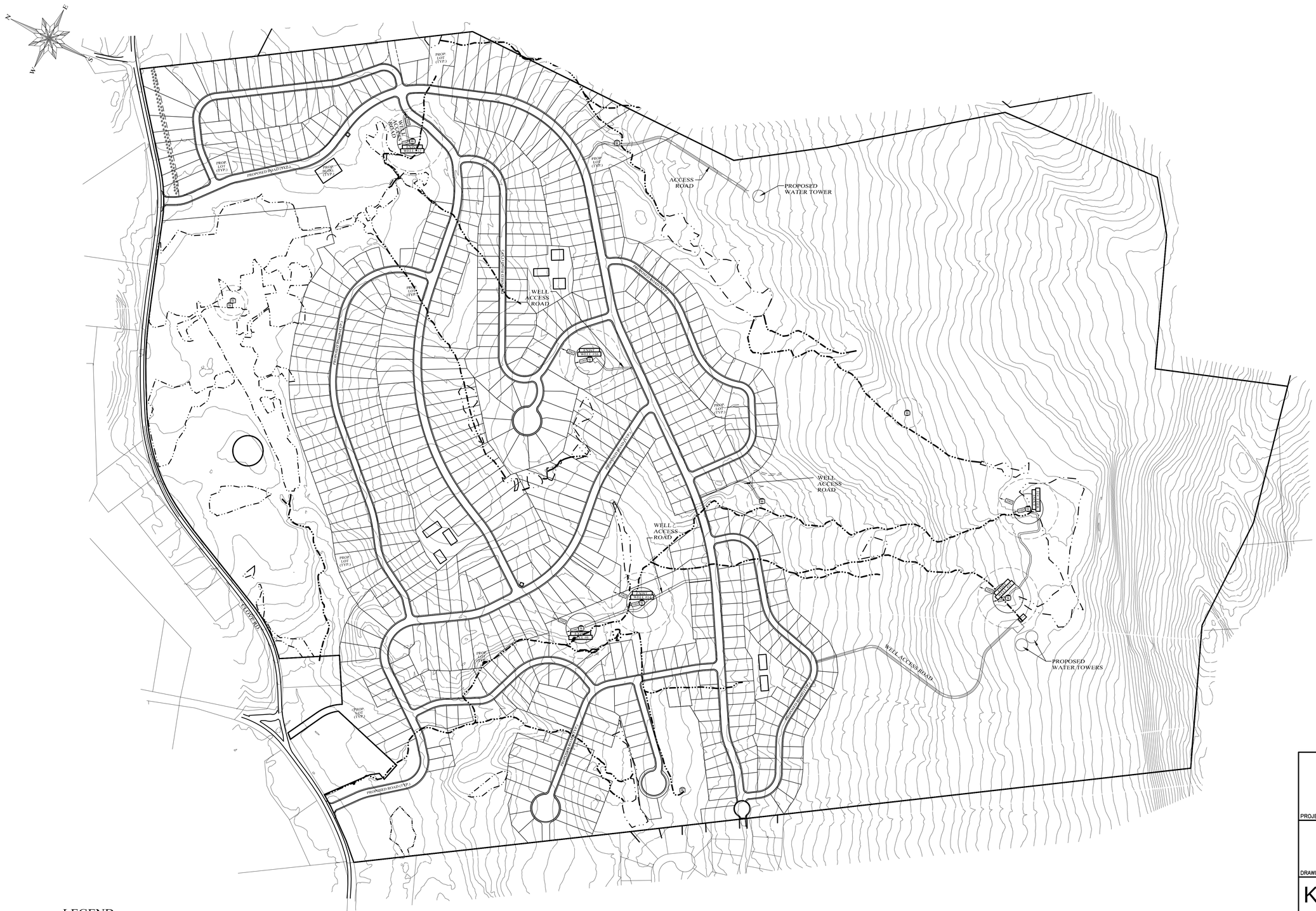
KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
08-06-18	GENERAL REVISION
03-18-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	LT 1
CAD # 14107 SP Light Land	PROJECT # 14107.0	SCALE AS SHOWN	



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING 10' CONTOUR LINE
- EXISTING 2' CONTOUR LINE
- EXISTING DEC WETLANDS
- EXISTING FEDERAL WETLANDS
- PROPOSED EDGE OF PAVEMENT
- EXISTING EDGE OF PAVEMENT

GRAPHIC SCALE

300 0 150 300 600 1200

(IN FEET)
1 inch = 300 ft.

CLOVEWOOD

VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

WELL ACCESS ROAD PLAN

DRAWING TITLE

Kirk Rother, P.E.
CONSULTING ENGINEER, PLLC
5 Saint Stephens Lane, Warwick NY 10990
(845) 988-0620

KIRK ROTHER, P.E. N.Y.S. LIC. NO. 079053 DATE

DATE	REVISIONS
05-19-23	REV. PER DEC COMMENTS
10-27-21	REV. PER DEIS COMMENTS
01-29-19	PRELIMINARY DESIGN
10-26-18	ADD WATER TOWER LOCATION
08-06-18	INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

D.O.T. SHEET #	D.E.C.. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	WA 1
CAD #	PROJECT #	SCALE	
14107 BASE	14107.0	AS SHOWN	