



# PLAN LEGEND

- PROPOSED SEWER COLLECTION LINE W/ MANHOLE (DESIGNATED SC-XXX)
- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- BOUNDARY LINE

# KAATERSKILL ASSOCIATES

## SURVEYORS, ARCHITECTS AND ENGINEERS

CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION

### REVISIONS

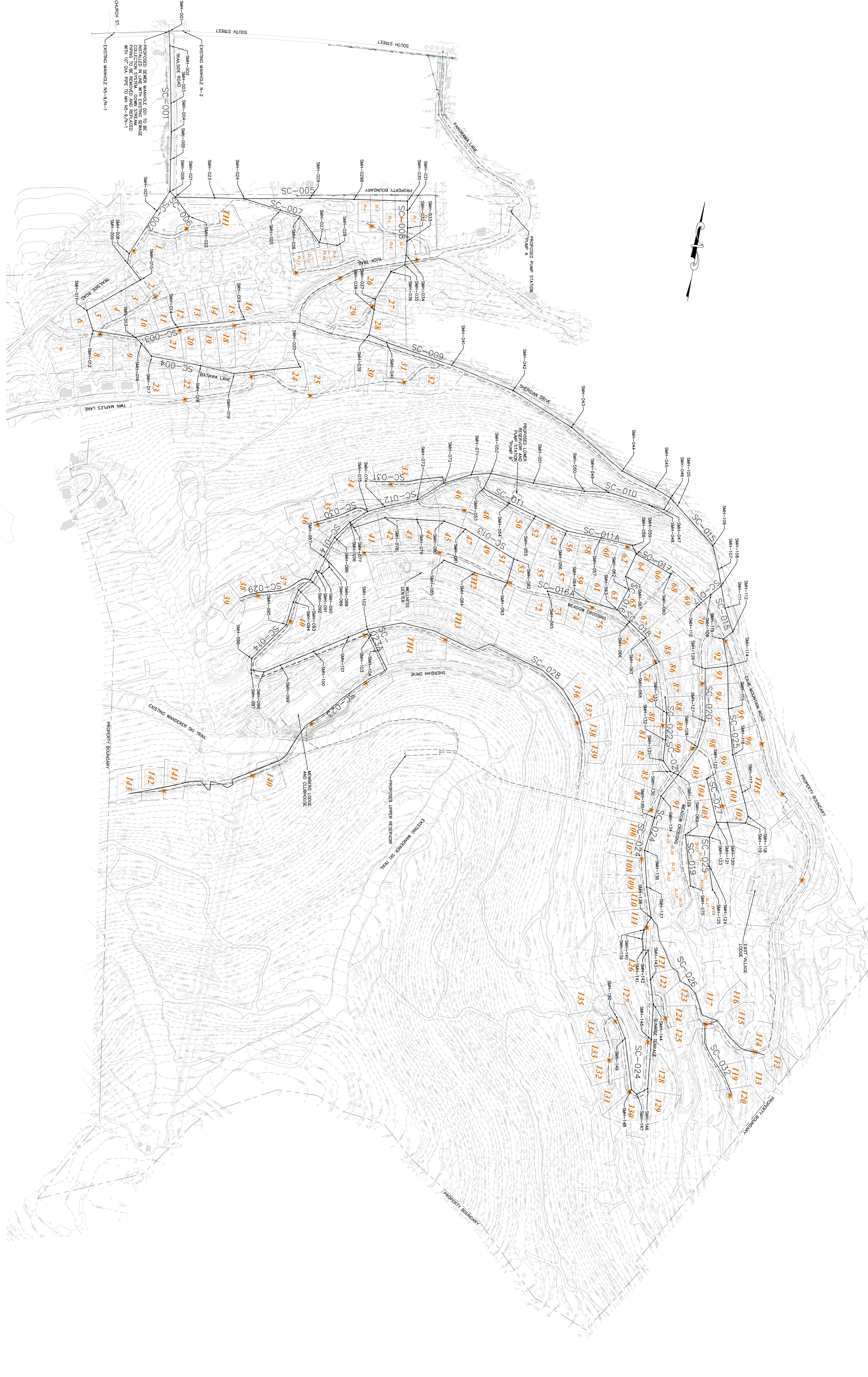
APR	TOWN OF WINDHAM

### PRELIMINARY SEWAGE COLLECTION PLANS

## FOR WINDHAM MOUNTAIN SPORTING CLUB

TOWN OF WINDHAM GREENE COUNTY, NY

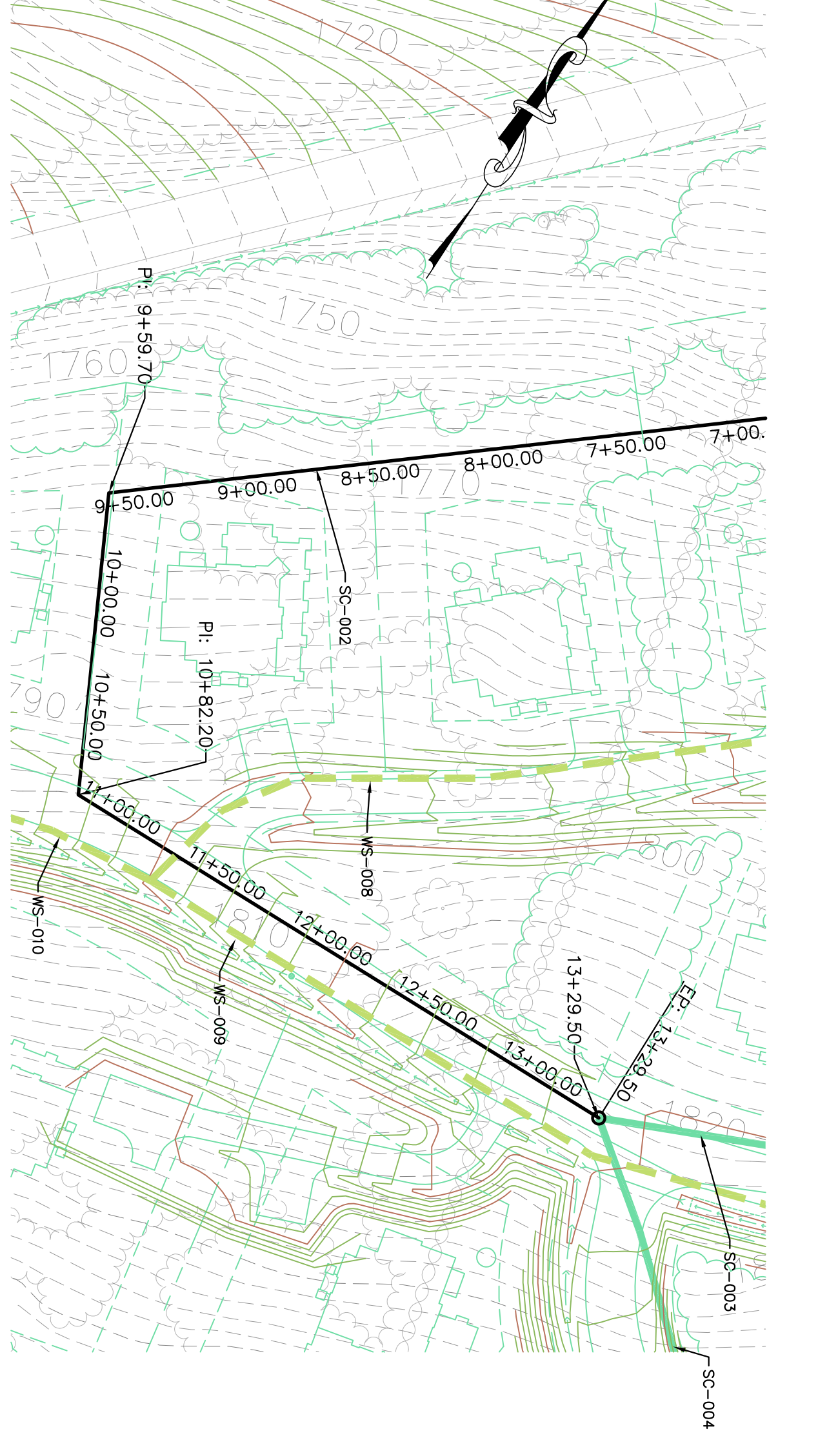
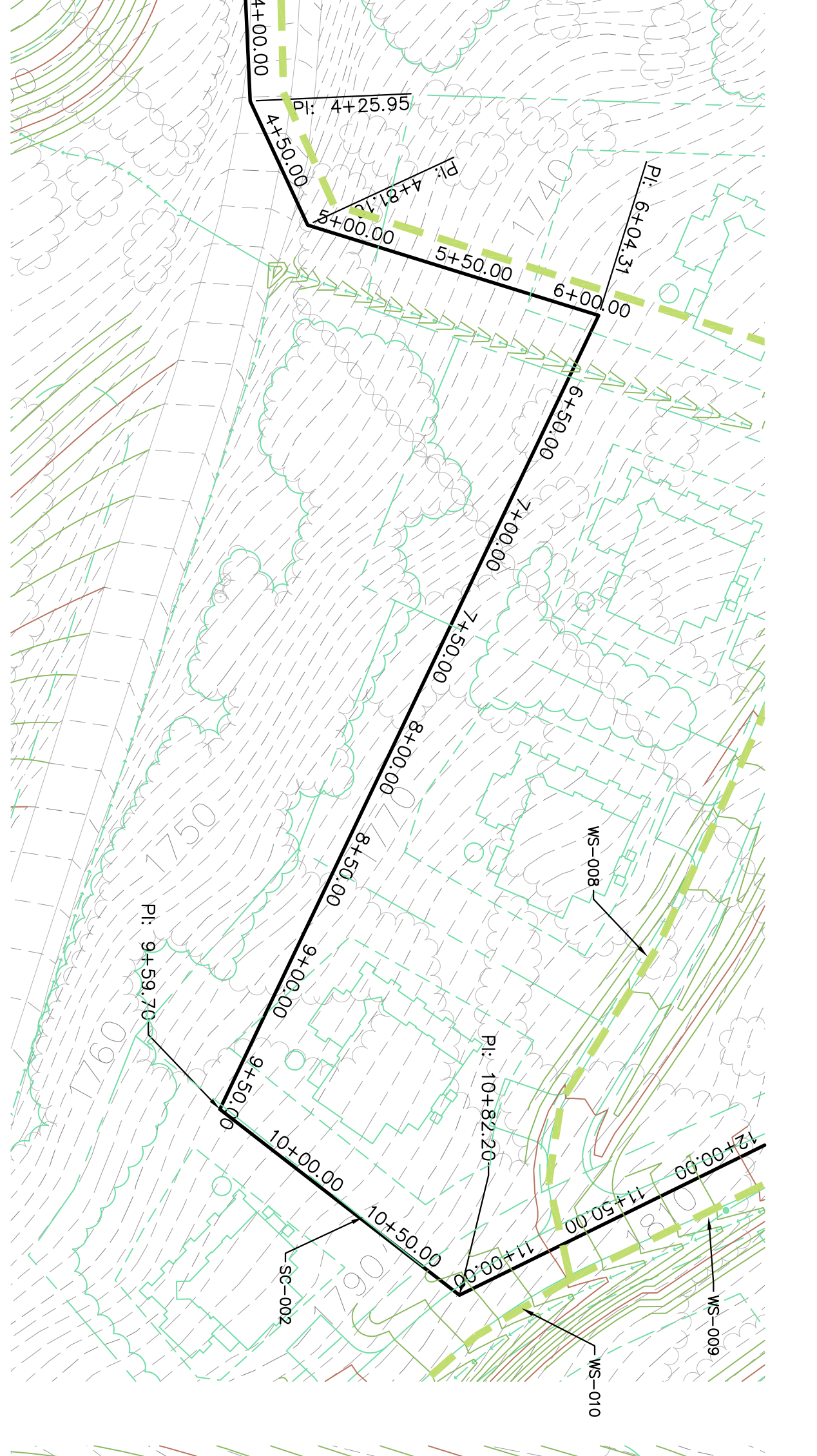
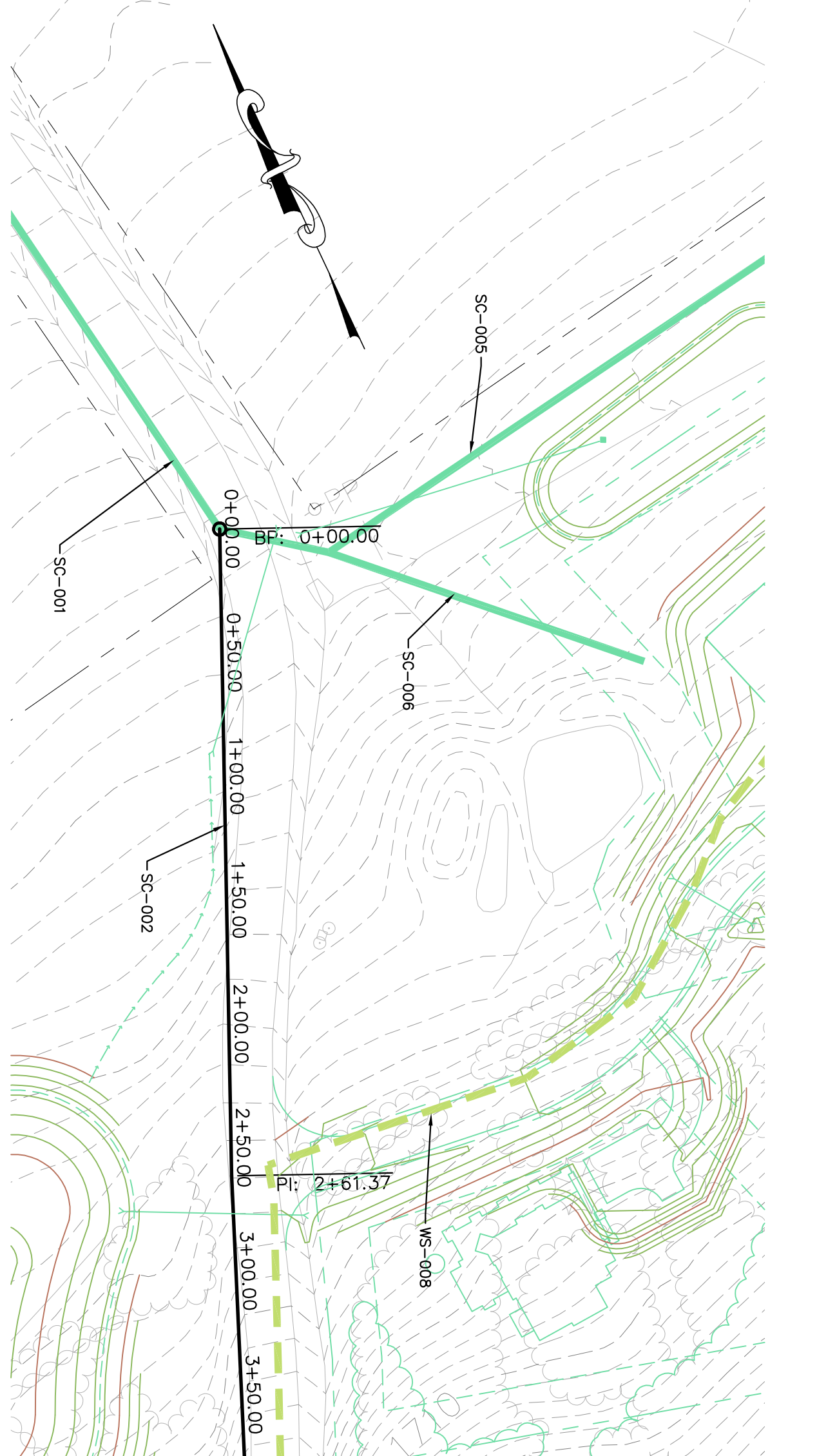
PROJECT:	164207-02	DRAWING:	SC-02
DATE:	NOV 2011	CHECKED BY:	KAS DOE
SCALE:	AS NOTED	DESIGNED BY:	KAS DOE
DRAWN BY:	KAS, LIS, SJP		
CHECKED BY:	KAS DOE		



1 SEWAGE COLLECTION SYSTEM KEY MAP  
 SCALE: 1"=200'

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE NECESSARY INFORMATION FOR THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

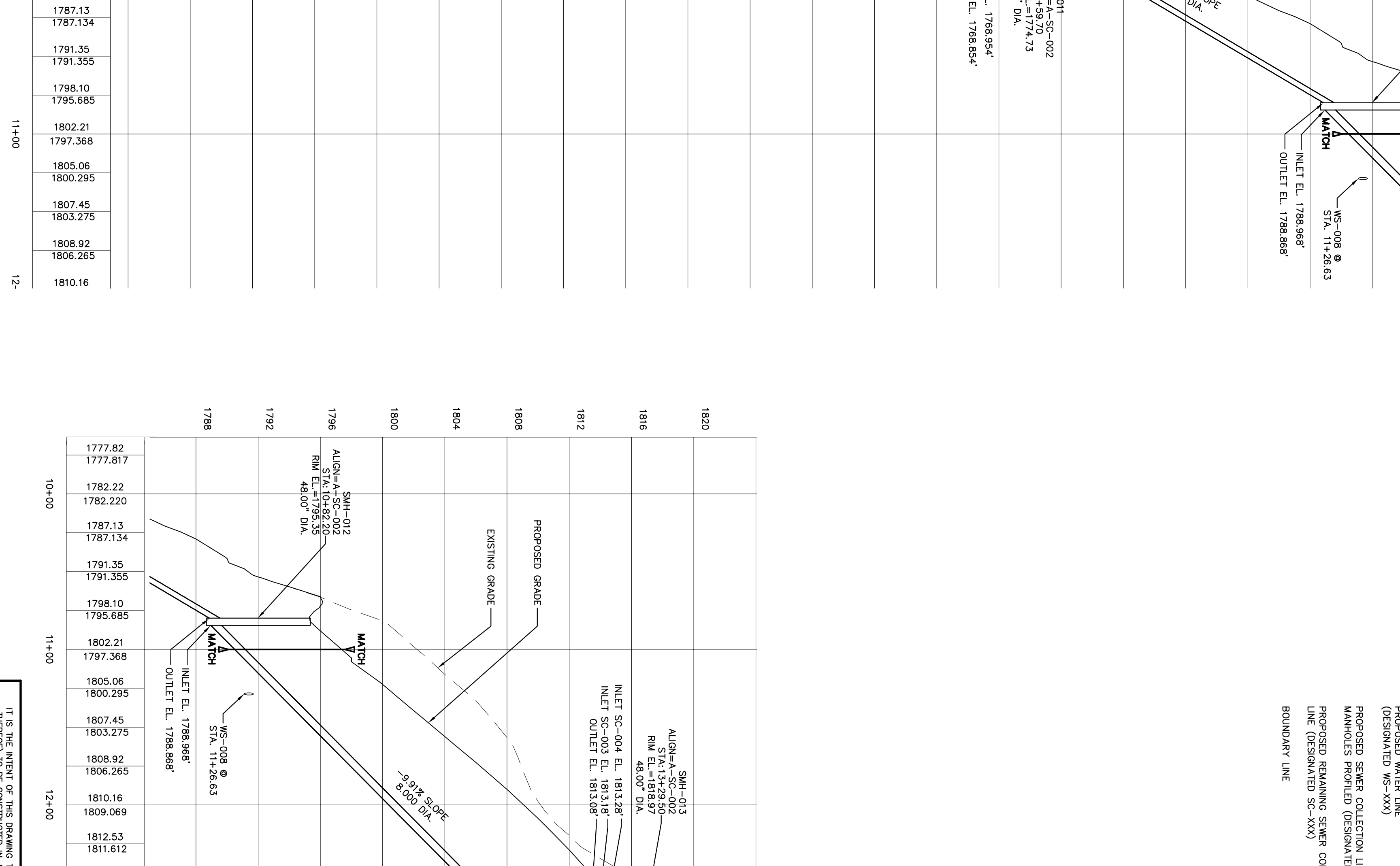
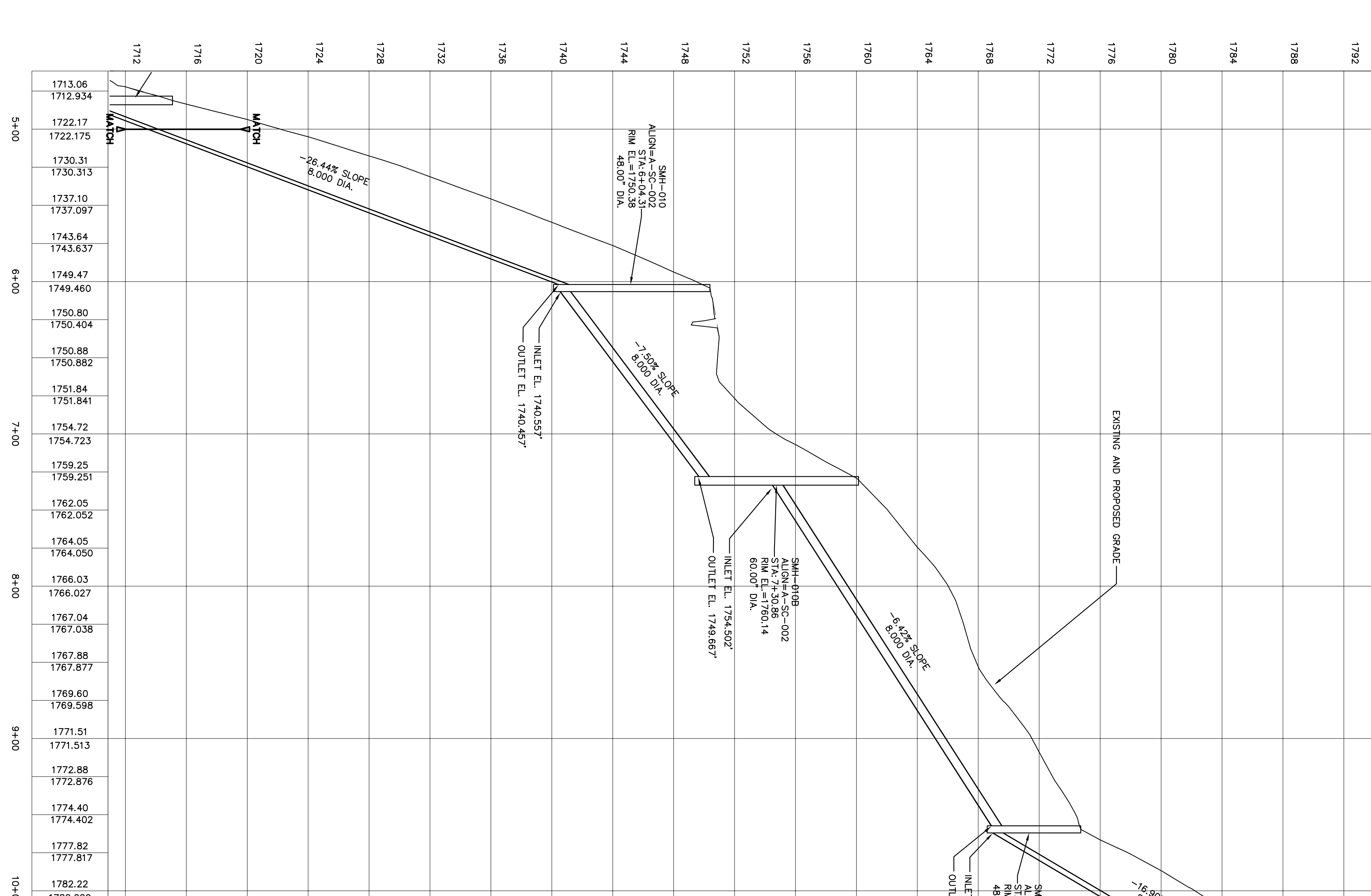
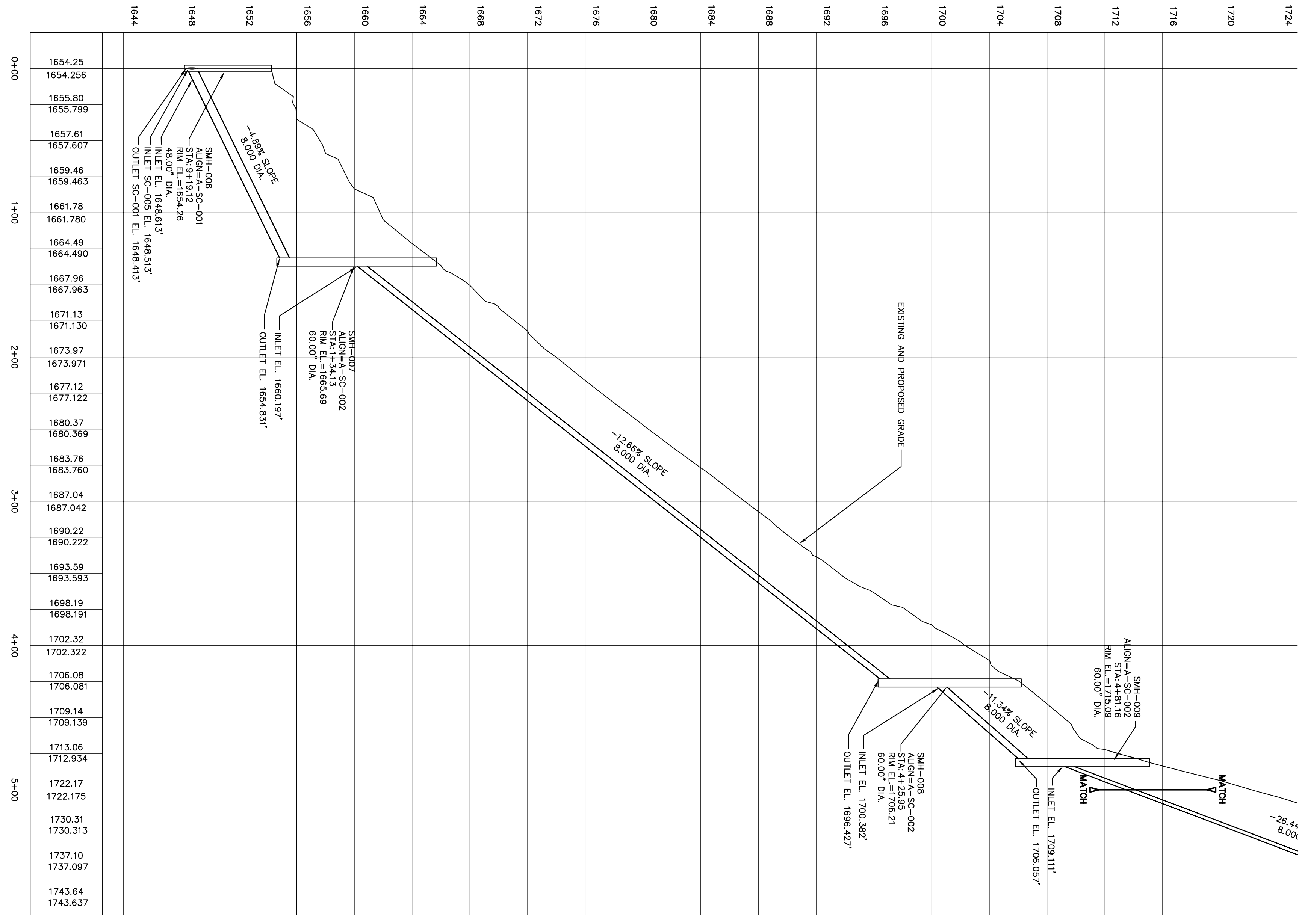




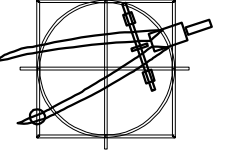
1 SC-002 PLAN  
SCALE: 1"=50'

**PLAN LEGEND**

- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLE PROFILES (DESIGNATED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-XXX)
- BOUNDARY LINE



2 SC-002 PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



**KAATERSKILL ASSOCIATES**  
SURVEYORS, ARCHITECTS AND ENGINEERS  
CARO, NY (518)622-9667

REV	DATE

**REVISIONS**

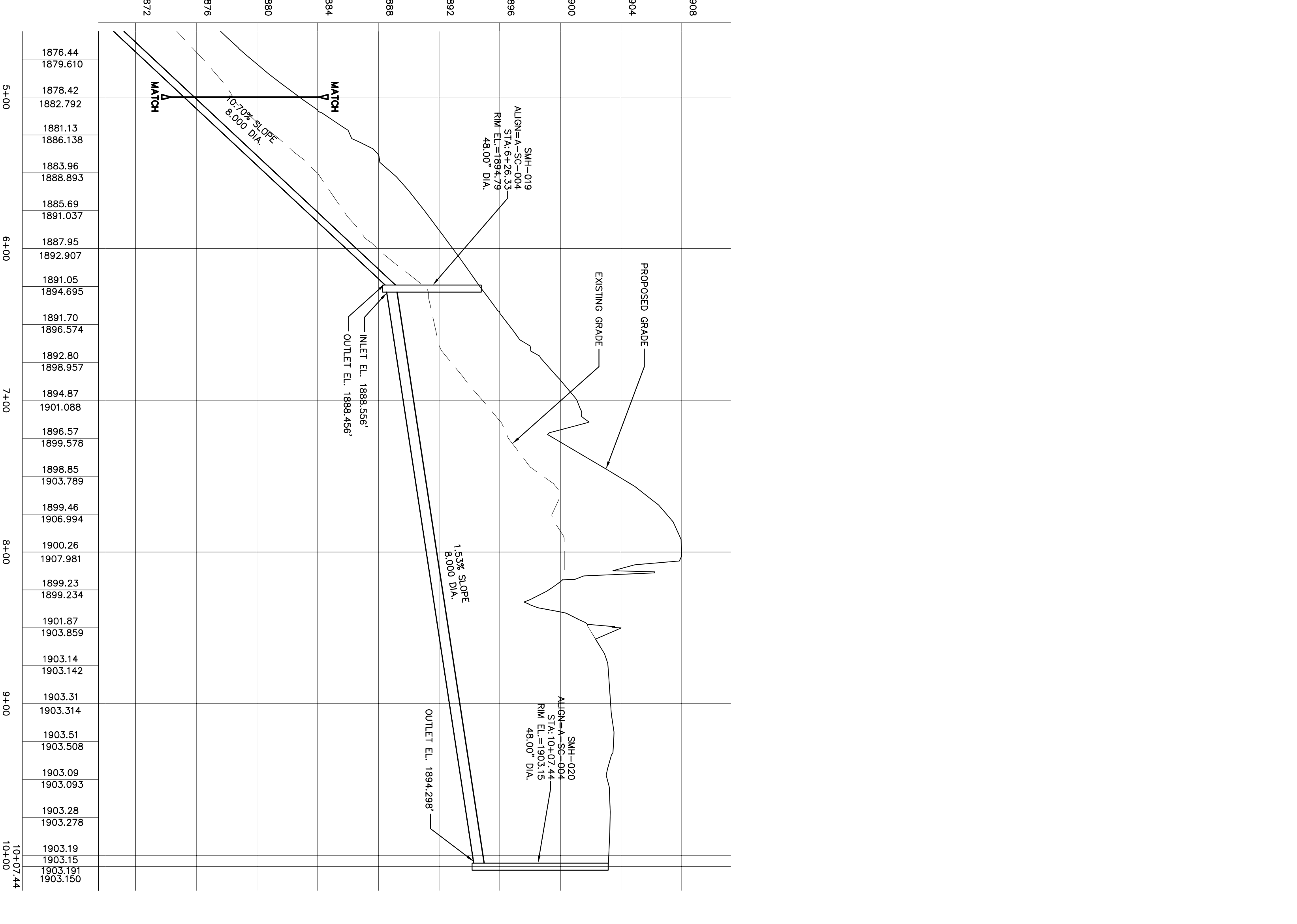
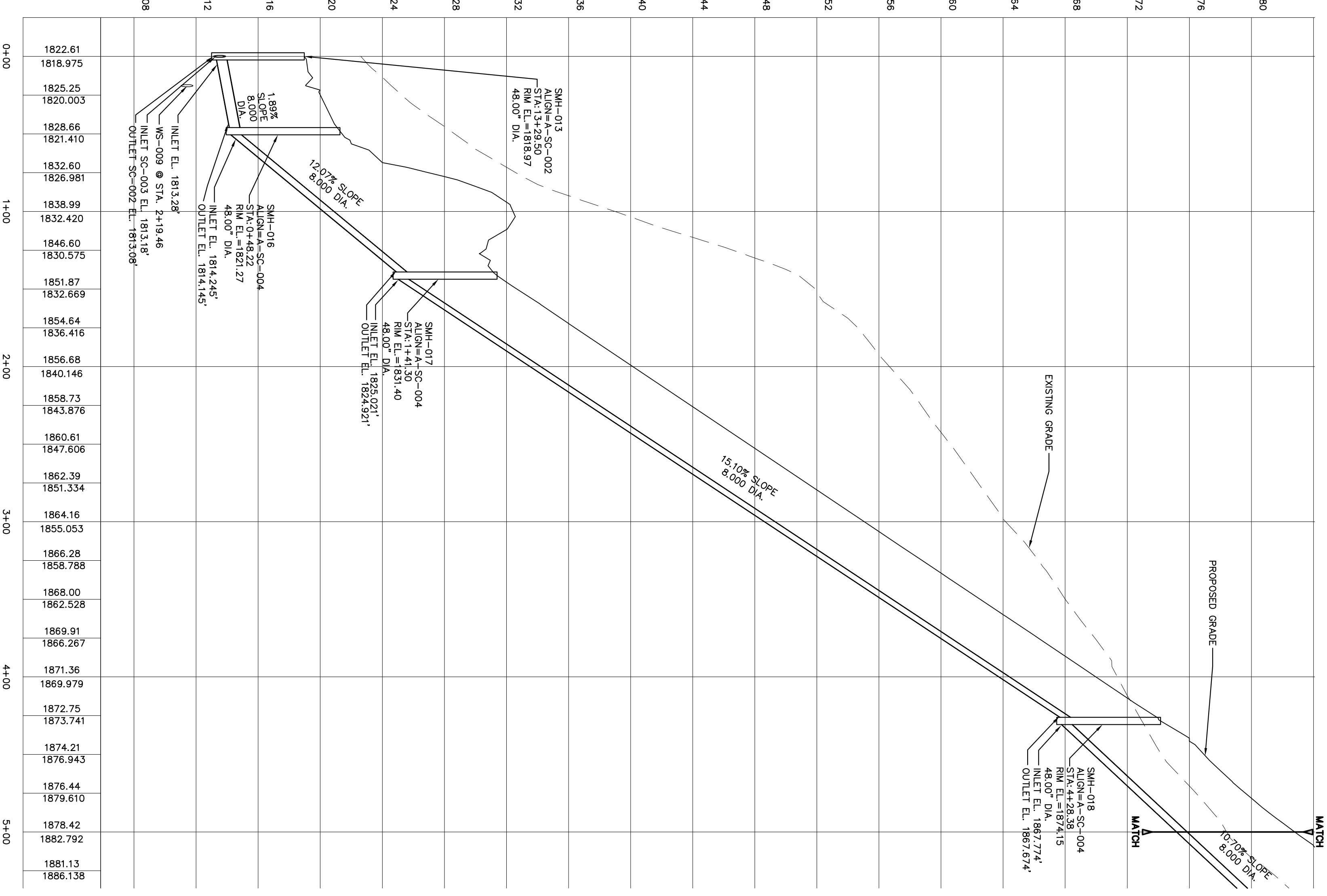
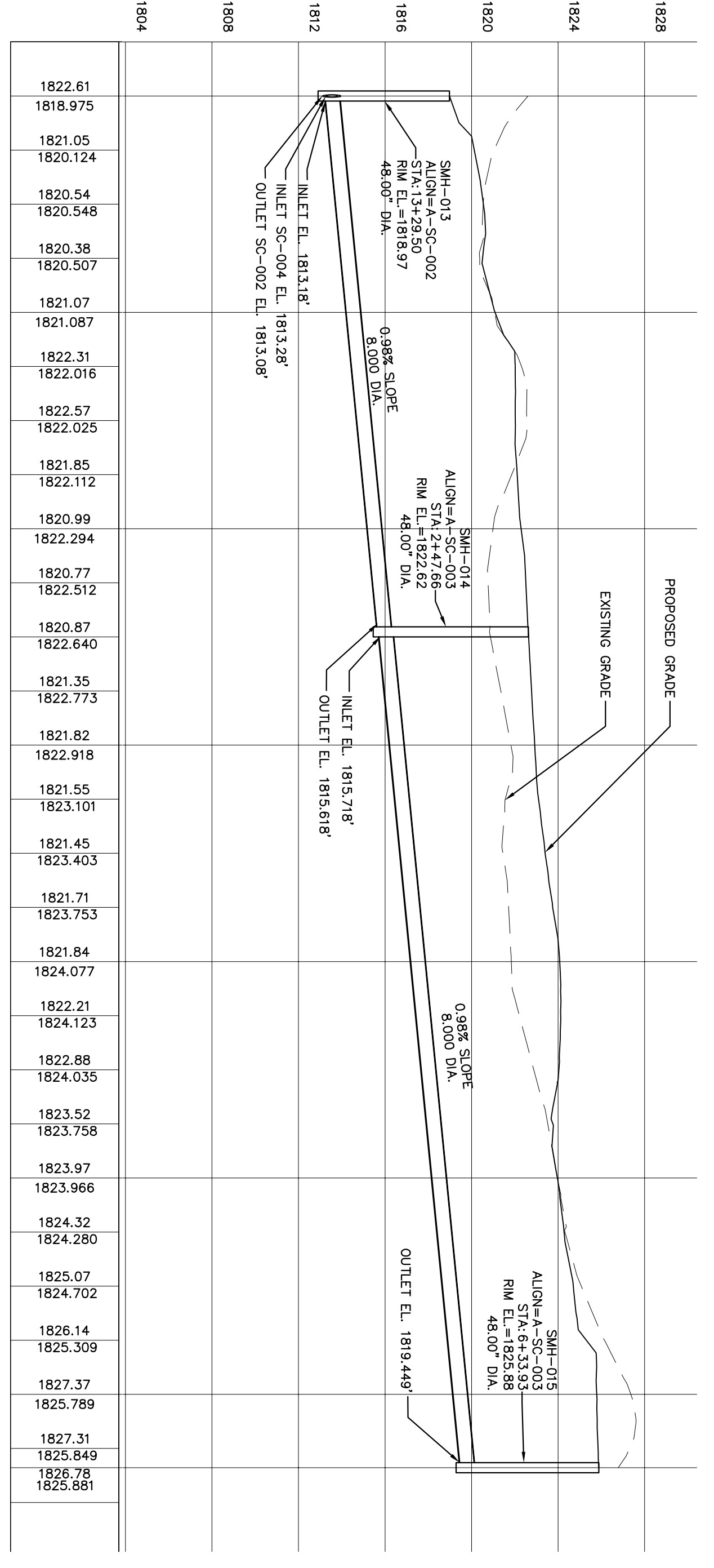
NO.	DATE	DESCRIPTION

**PRELIMINARY SEWAGE COLLECTION PLANS**  
FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
TOWN OF WINDHAM  
GREENE COUNTY, NY

PROJECT: 164207/02  
DATE: NOV. 2011  
SCALE: AS NOTED  
DRAWN BY: KAS, US, SNP  
CHECKED BY: KAS, DOE

**SC-04**  
DRAWING:  
SHEET 4 OF 28

IT IS THE DUTY OF THE ENGINEER TO EXAMINE A CONTRACTOR'S CONTRACT PROJECT FOR ANY  
 DEFICIENCIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY WORK OR  
 MATERIALS NOT APPROVED BY THE ENGINEER SHOULD NOT BE USED. THE ENGINEER'S  
 OPINION IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT AND DOES NOT  
 INCLUDE THE GENERAL CONDITION OF THE PROJECT OR THE FITNESS OF THE RESULT  
 WILL BE FURNISHED AND PERFORMED WITHOUT THE ENGINEER'S RESPONSIBILITY. THE  
 ENGINEER'S OPINION IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT AND DOES NOT  
 INCLUDE THE GENERAL CONDITION OF THE PROJECT OR THE FITNESS OF THE RESULT  
 SPECIALTY PROFESSIONAL (ARCHITECT, ENGINEER, LANDSCAPE ARCHITECT, SURVEYOR) A LICENSED



### PLAN LEGEND

- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROFILED (DESIGNATED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-XXX)
- BOUNDARY LINE

**KAATERSKILL ASSOCIATES**  
 SURVEYORS, ARCHITECTS AND ENGINEERS  
 CAIRO, NY (518)622-9667

REV.	DATE	DESCRIPTION

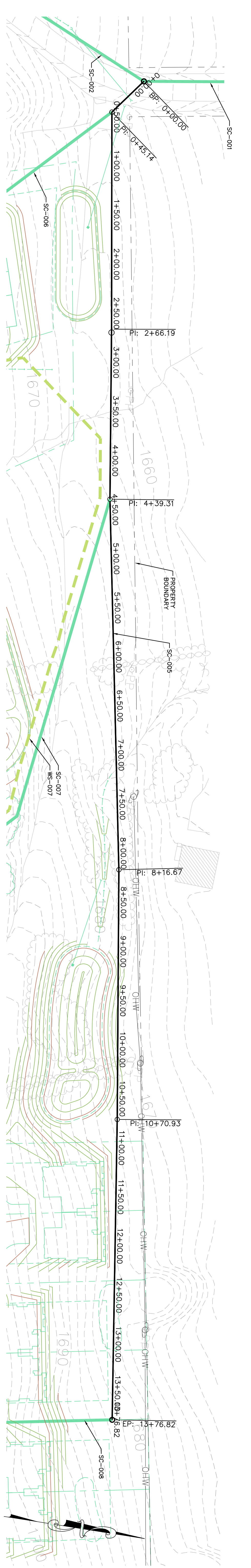
**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

PROJECT: 164207-02  
 DATE: NOV 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LIS, SNP  
 DESIGNED BY: KAS, DOE  
 CHECKED BY: KAS, DOE

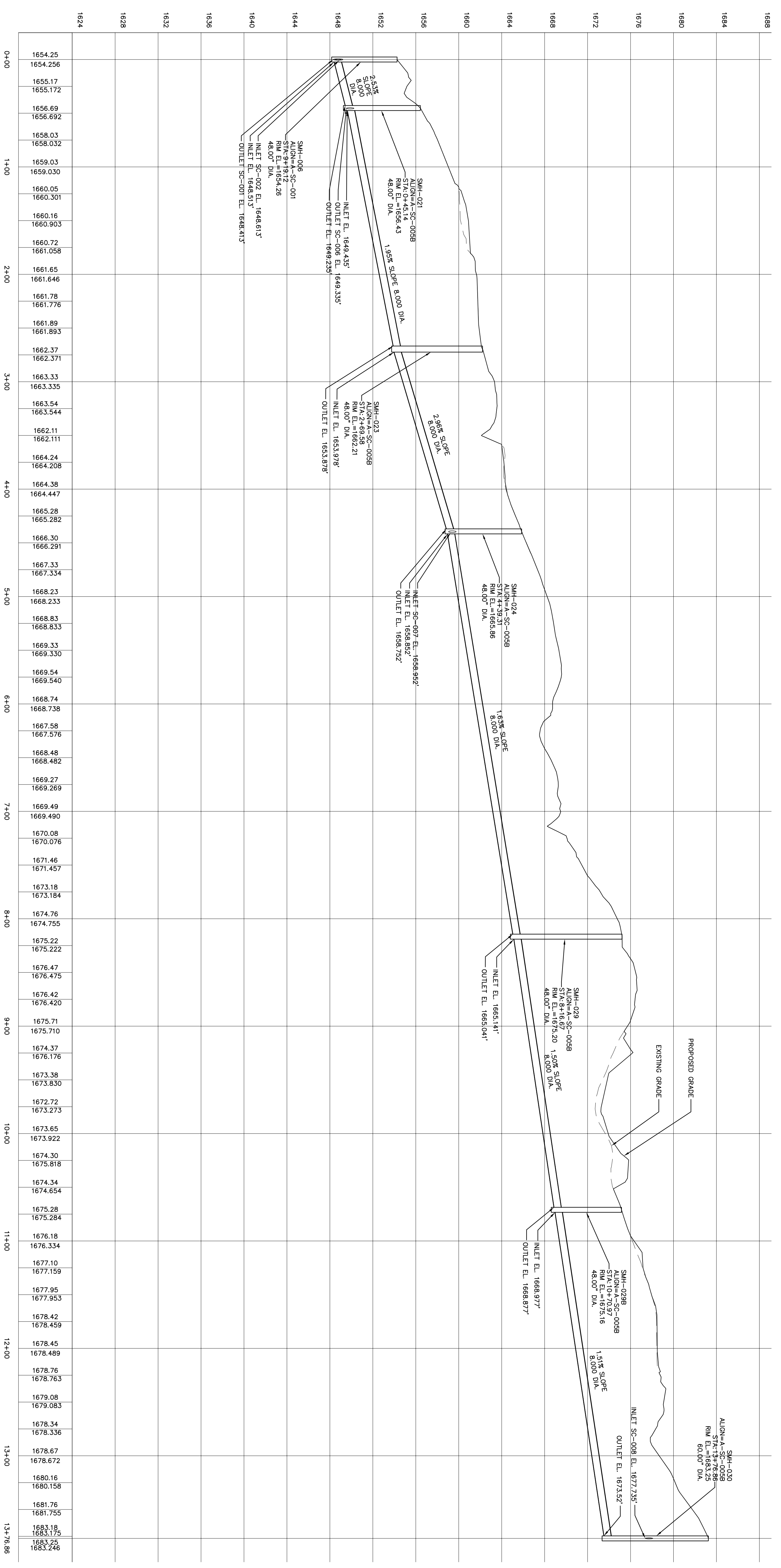
IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A PRELIMINARY COMPLETE PROJECT (OR PART THEREOF) AND NOT TO BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON.

PROJECT: 164207-02  
 DATE: NOV 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LIS, SNP  
 DESIGNED BY: KAS, DOE  
 CHECKED BY: KAS, DOE

SC-003 AND SC-004 PLAN AND PROFILE  
 SHEET 5 OF 28



1 SC-005 PLAN  
 SCALE: 1"=30'



2 SC-005 PROFILE  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'

PLAN LEGEND

- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROFILED (DESIGNATED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-XXX)
- BOUNDARY LINE

**KAATERSKILL ASSOCIATES**  
 SURVEYORS, ARCHITECTS AND ENGINEERS  
 CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION

**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

**SC-005 PLAN AND PROFILE**

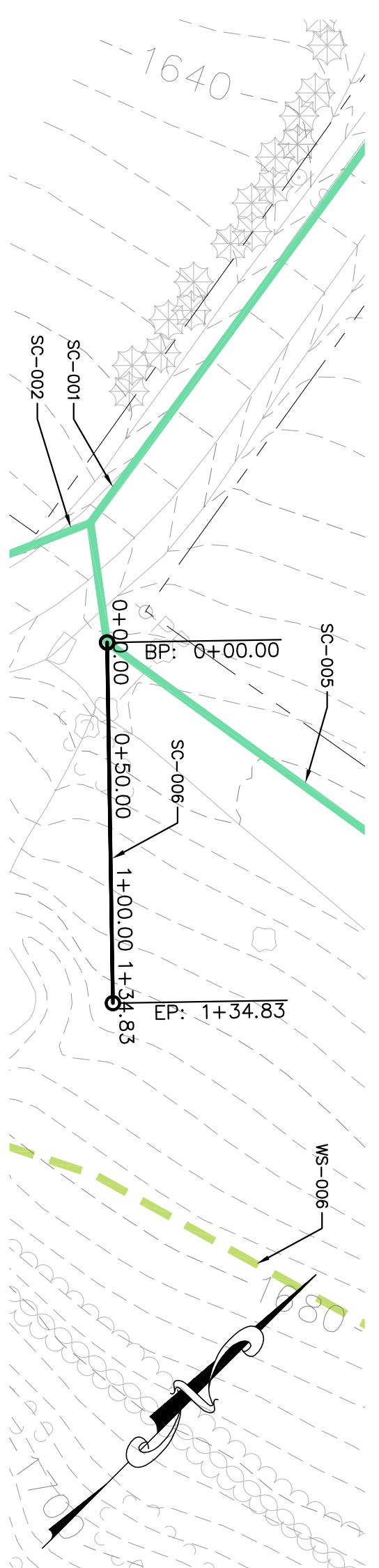
PROJECT: 164207-02  
 DATE: NOV. 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LJS, SJP  
 DESIGNED BY: KAS, DOE  
 CHECKED BY: KAS, DOE

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE NECESSARY INFORMATION TO THE CONTRACTOR TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

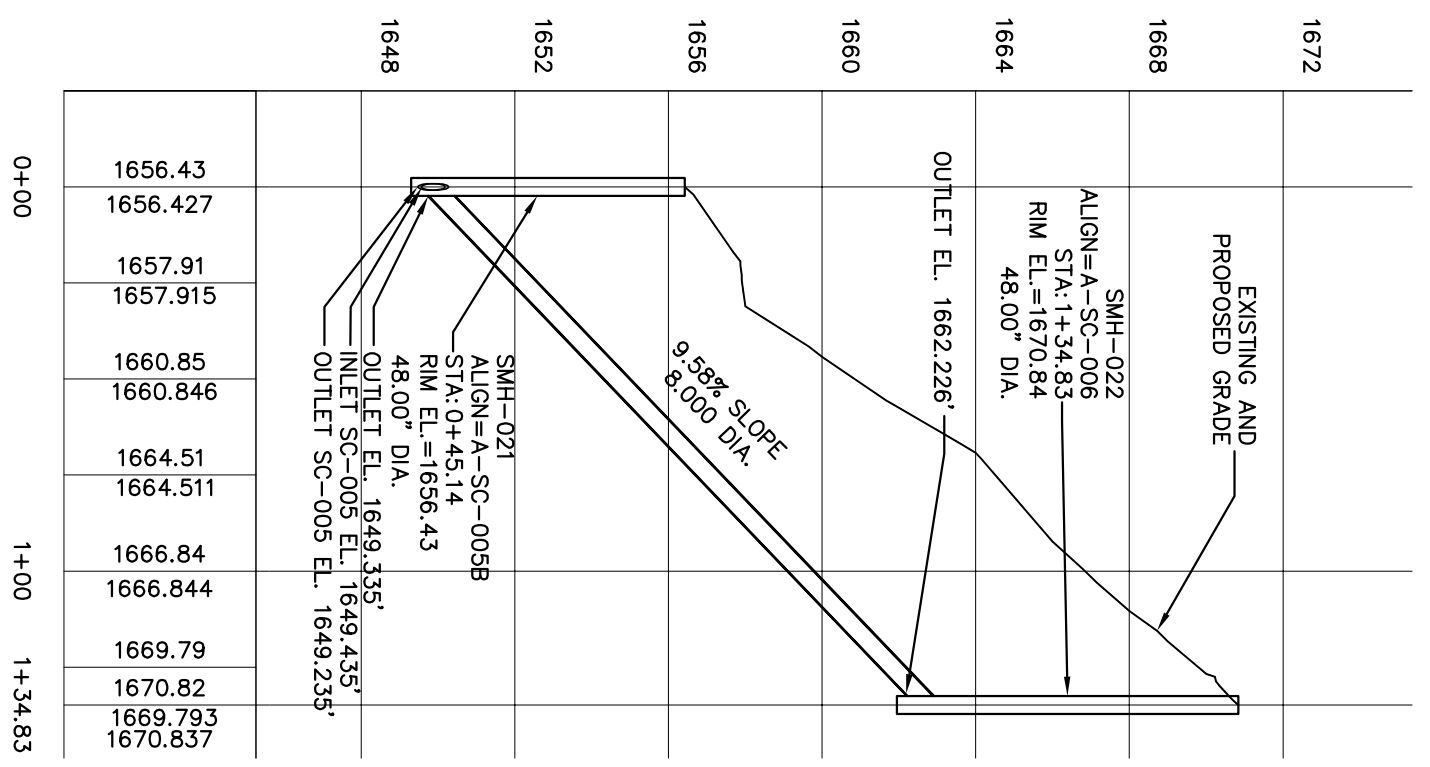
DRAWING:  
**SC-06**  
 SHEET 6 OF 28

**PLAN LEGEND**

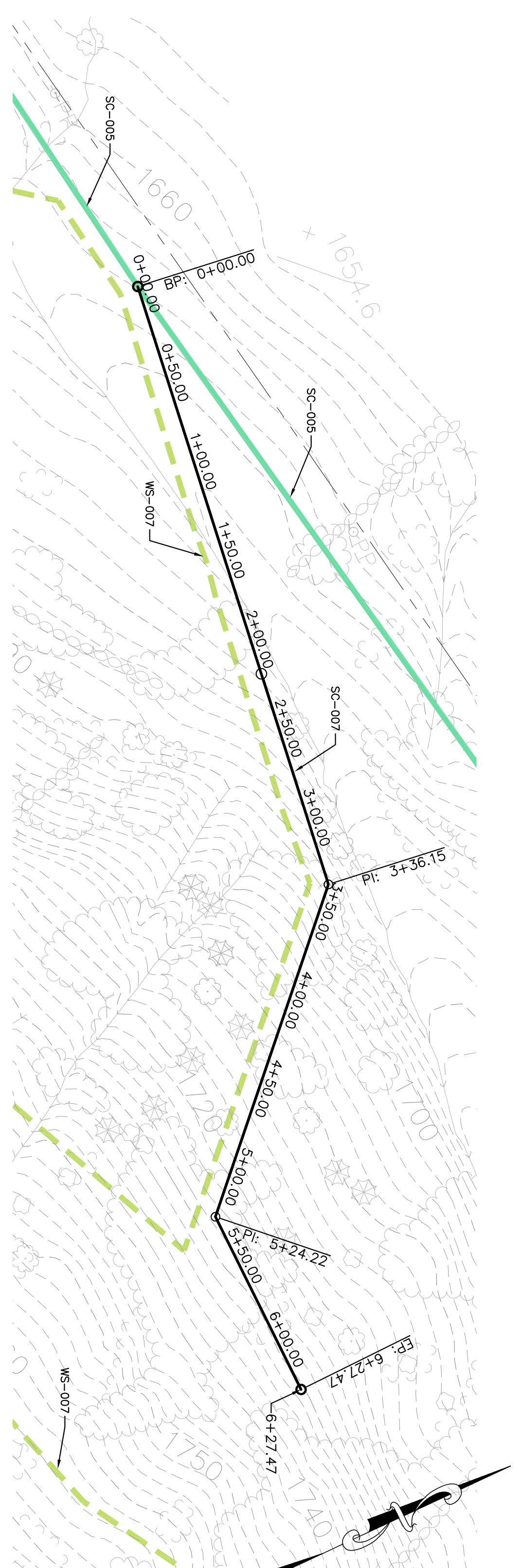
- PROPOSED WREN LINE (PRESENTED WS-WX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROVIDED (RESERVED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (RESERVED SC-WX)
- BOUNDARY LINE



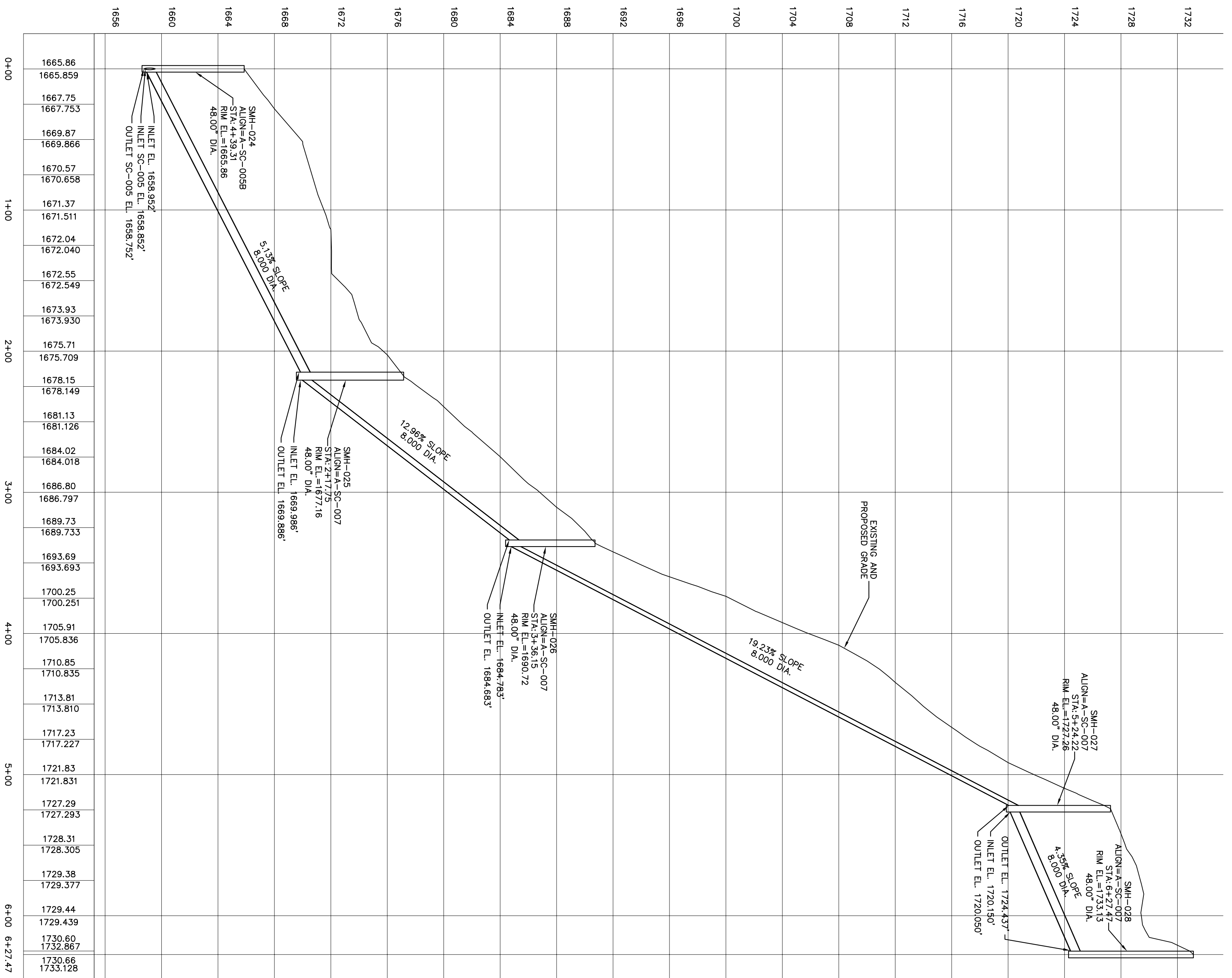
**1 SC-006 PLAN**  
SCALE 1"=50'



**2 SC-006 PROFILE**  
VERTICAL SCALE 1"=3'

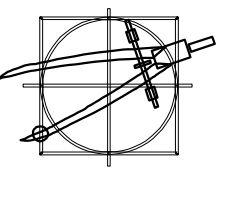


**3 SC-007 PLAN**  
SCALE 1"=50'



**4 SC-007 PROFILE**  
VERTICAL SCALE 1"=3'

File: L:\2007\16420702-16420702-P5-SC-PROF.dwg Plot: 16420702-SC-PROF.dwg User: Sarah Dec 08, 2011 11:46am



**KAATERSKILL ASSOCIATES**

SURVEYORS, ARCHITECTS AND ENGINEERS

CAIRO, NY (518)622-9667

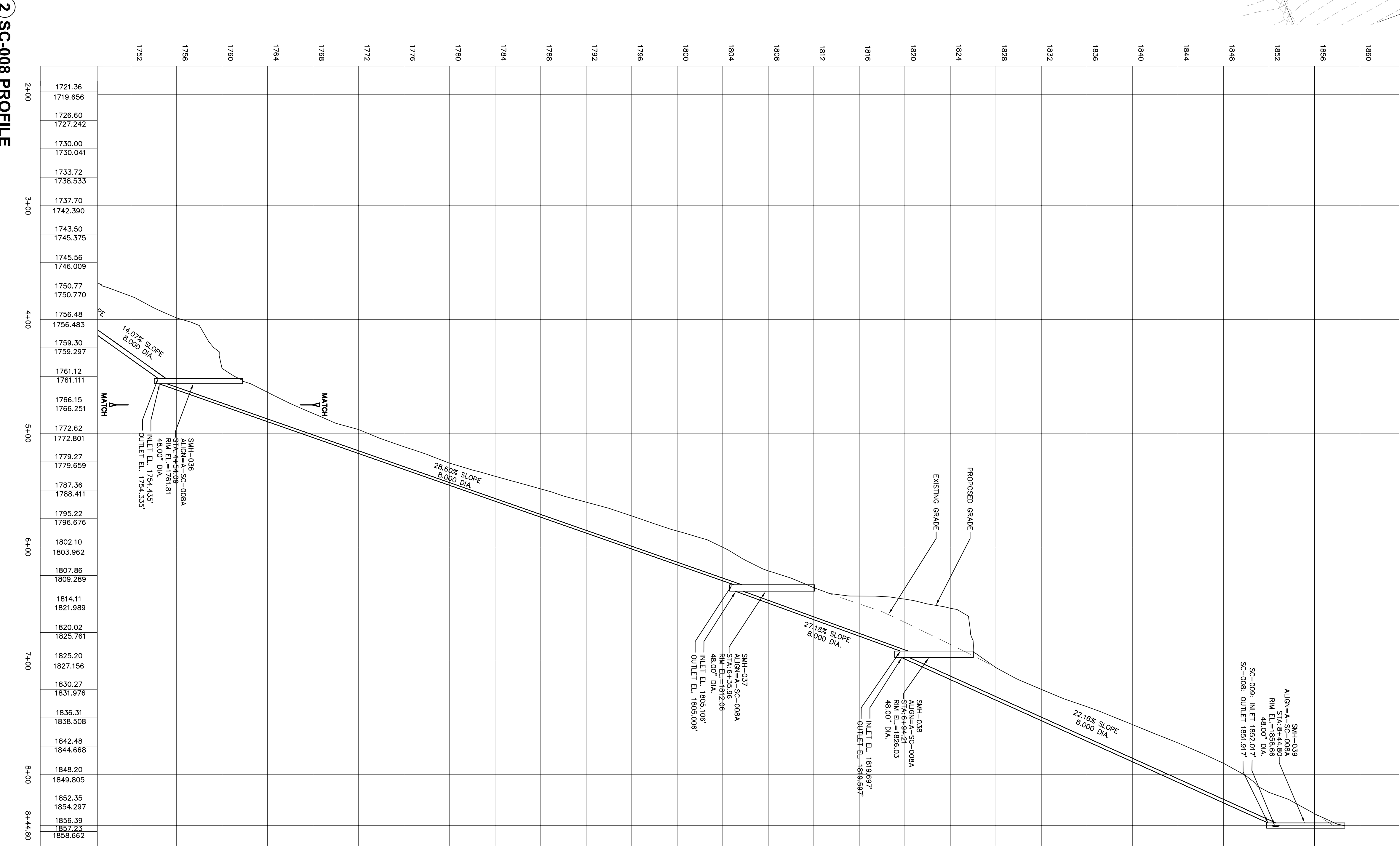
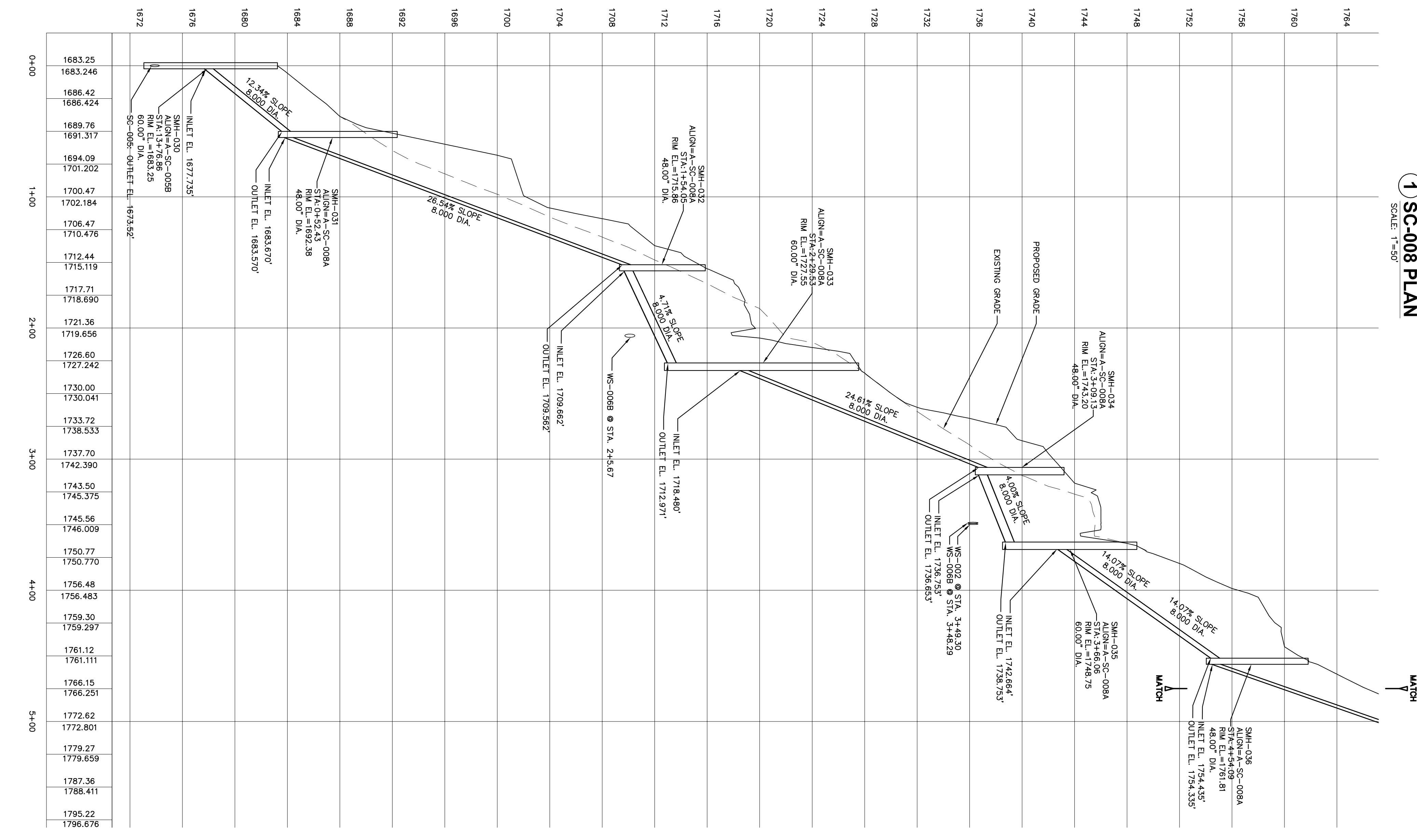
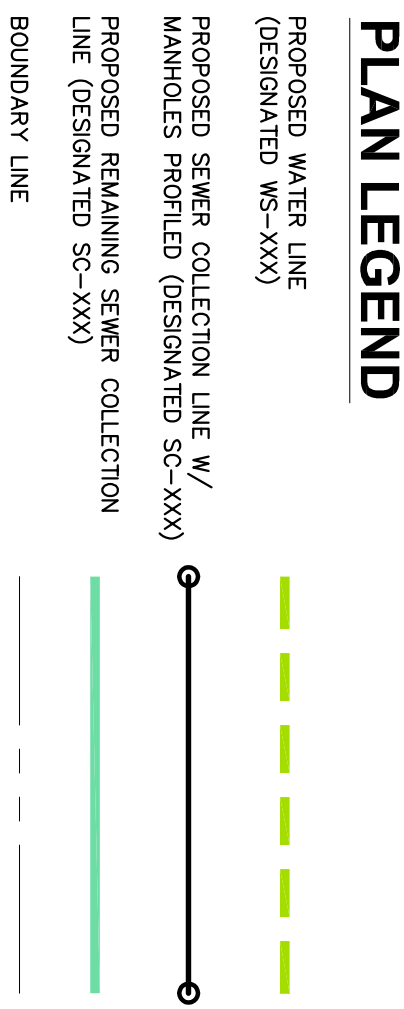
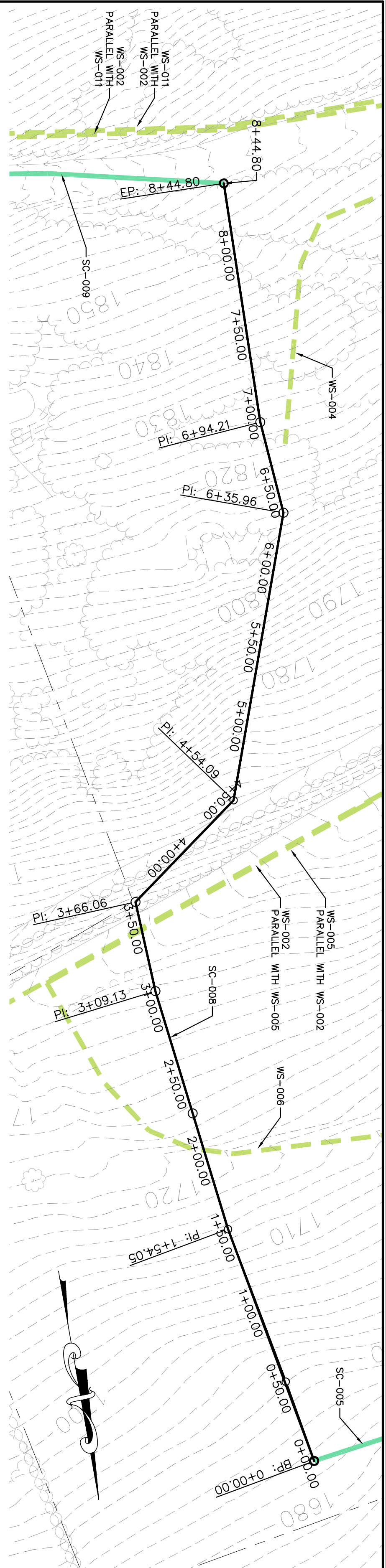
REV	DATE	DESCRIPTION	APP

PRELIMINARY SEWAGE COLLECTION PLANS  
FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
TOWN OF WINDHAM  
**SC-006 AND SC-007 PLAN AND PROFILE**  
GREENE COUNTY, NY

PROJECT: 16420702  
DATE: NOV 2011  
SCALE: AS NOTED  
DRAWN BY: KAS, LJS, SNP  
CHECKED BY: KAS, DEC

DESIGNED BY: KAS, DEC

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) TO THE EXTENT NECESSARY TO OBTAIN A PERMIT TO CONSTRUCT THE PROJECT. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF KAATERSKILL ASSOCIATES. THE CLIENT ASSUMES ALL LIABILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT BY THE CLIENT. THE CLIENT ASSUMES ALL LIABILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE CLIENT BY THE CLIENT.



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 SURVEYORS, ARCHITECTS AND ENGINEERS  
 CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION

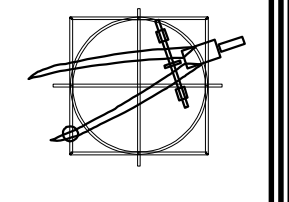
REV	DATE	DESCRIPTION

**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

PROJECT: 16420702  
 DATE: NOV 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LIS, SJP  
 CHECKED BY: KAS, DOE

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE NECESSARY INFORMATION FOR THE CONTRACTOR TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE CONTRACTOR'S RECORD DRAWING ARCHIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE CONTRACTOR'S RECORD DRAWING ARCHIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE CONTRACTOR'S RECORD DRAWING ARCHIVE.





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SURVEYORS, ARCHITECTS AND ENGINEERS  
 CAIRO, NY (518)622-9667

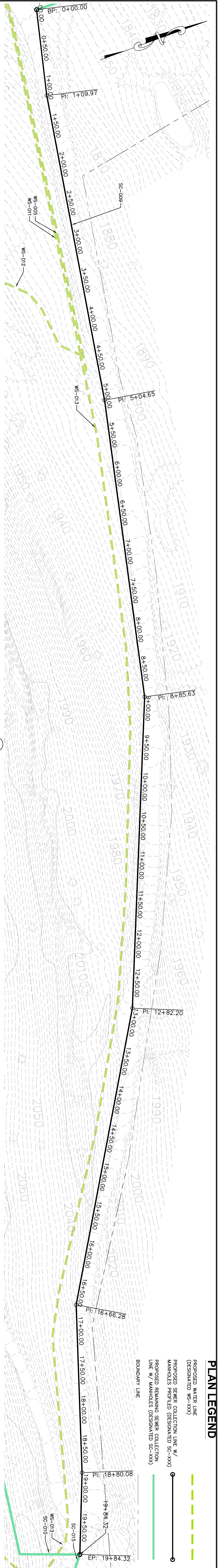
REV	DATE	DESCRIPTION

**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

PROJECT: 164207-02  
 DATE: NOV 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LJS, SJP  
 DESIGNED BY: KAS, DOE  
 CHECKED BY: KAS, DOE

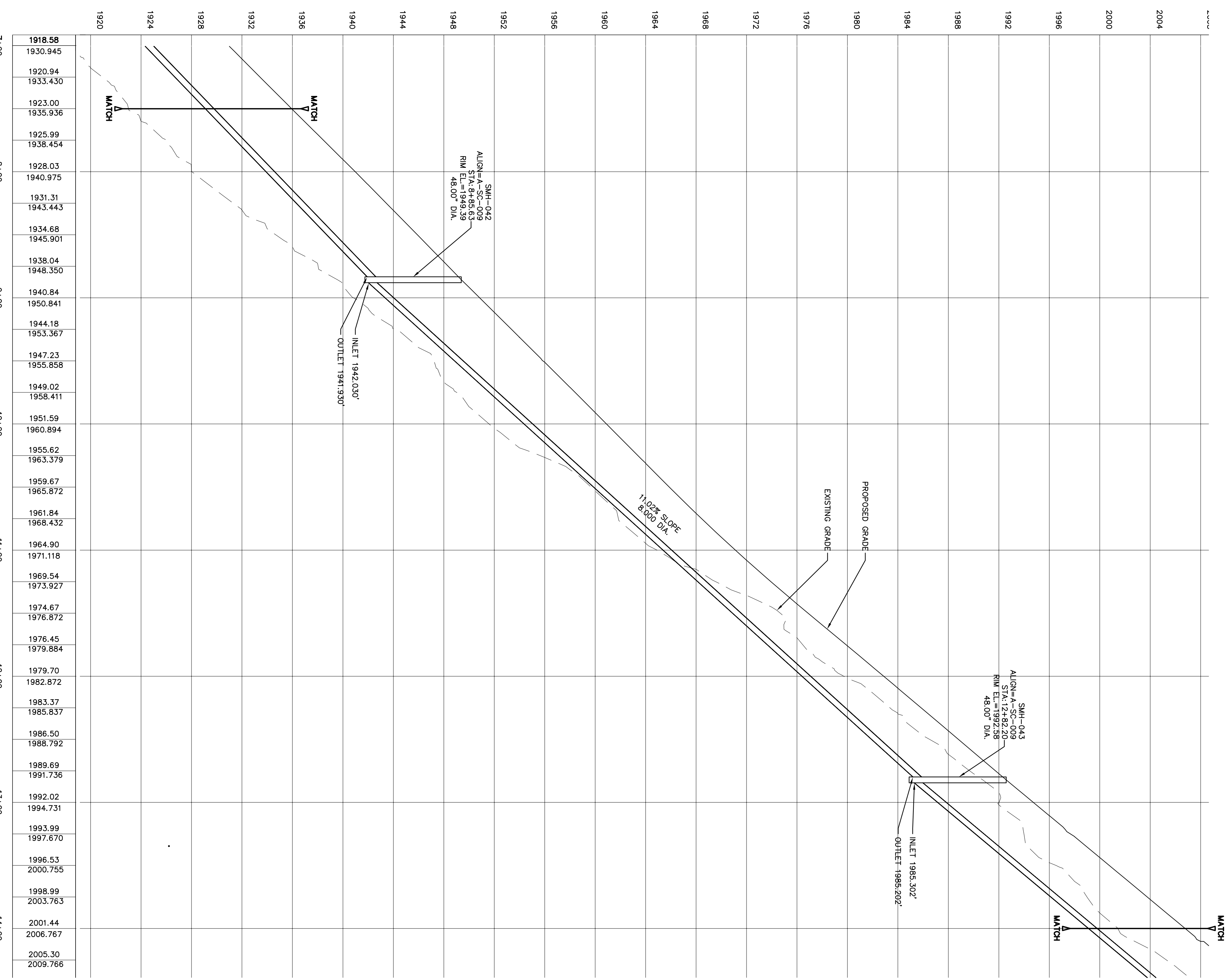
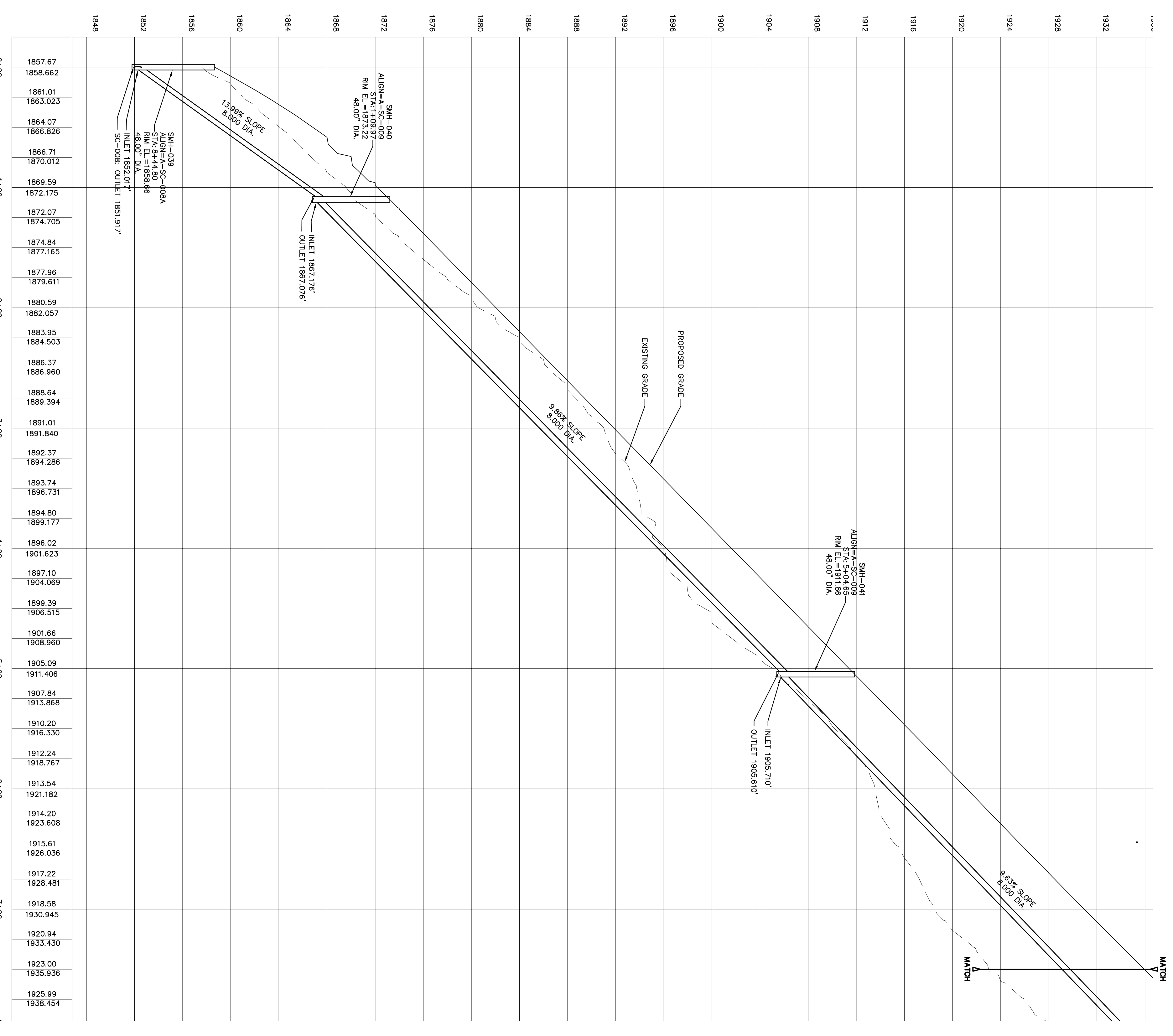
DRAWING:  
**SC-09**

SHEET 9 OF 28



**PLAN LEGEND**

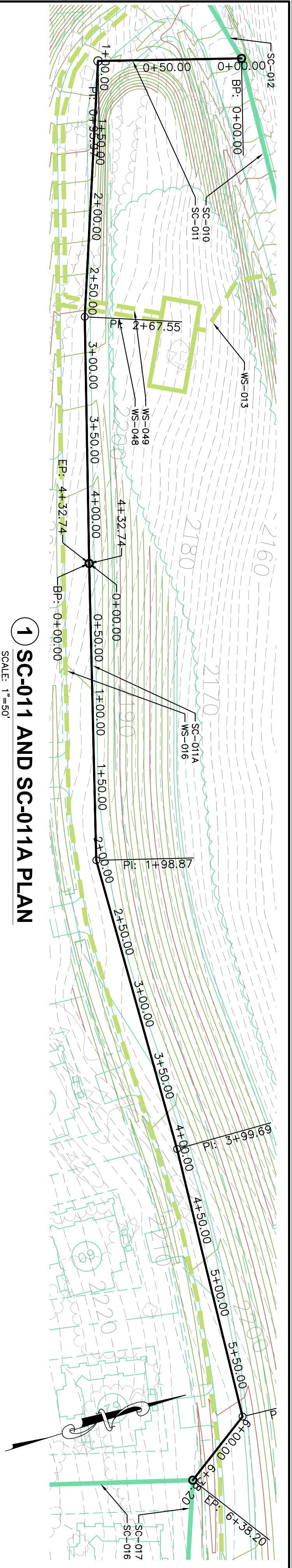
- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROFILE (DESIGNATED SC-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES (DESIGNATED SC-XXX)
- BOUNDARY LINE



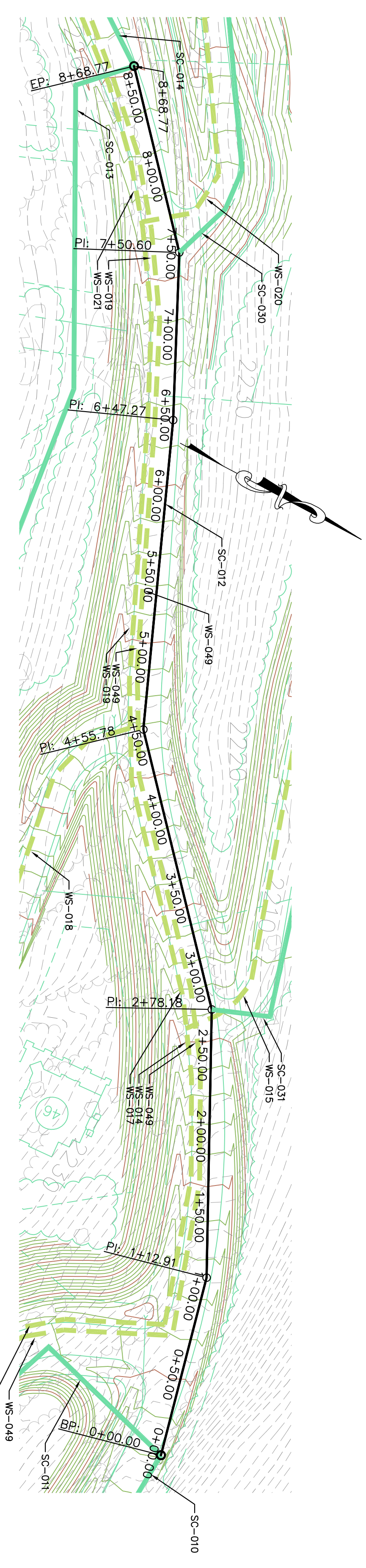
**SC-009 PROFILE**  
 VERTICAL SCALE: 1" = 5'

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE OWNER WITH SUFFICIENT INFORMATION TO PROCEED WITH THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON.





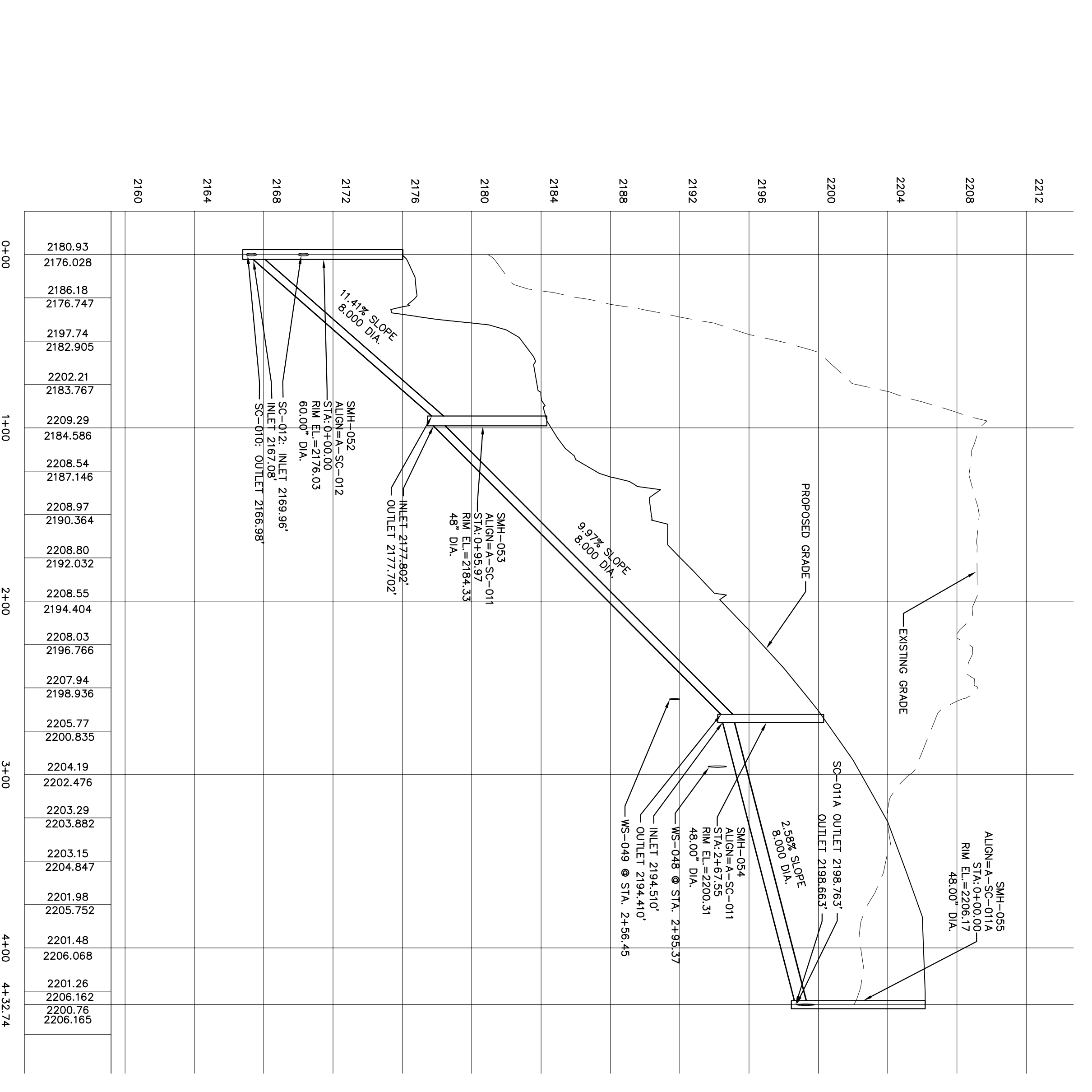
1 SC-011 AND SC-011A PLAN  
SCALE: 1"=50'



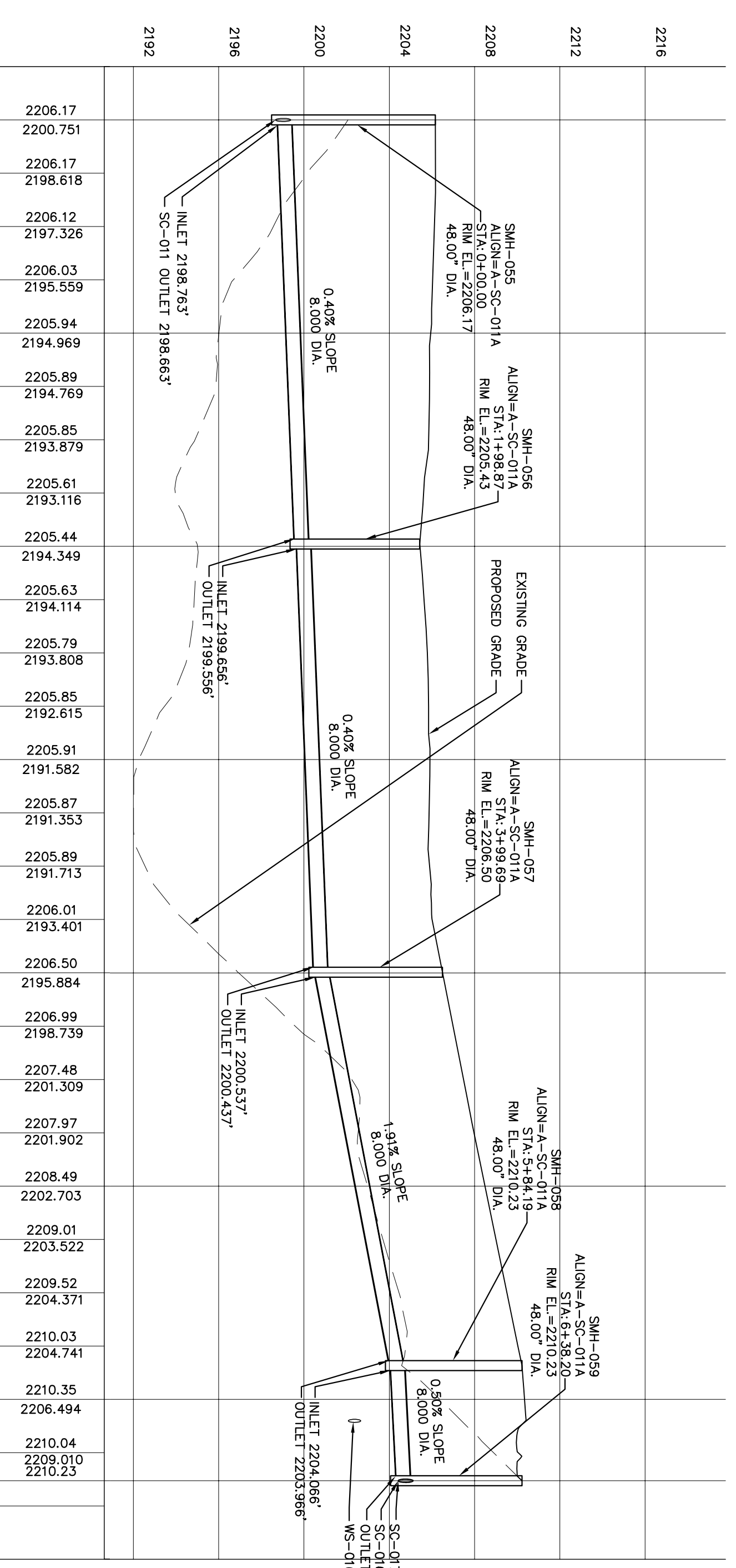
3 SC-012 PLAN  
SCALE: 1"=50'

PLAN LEGEND

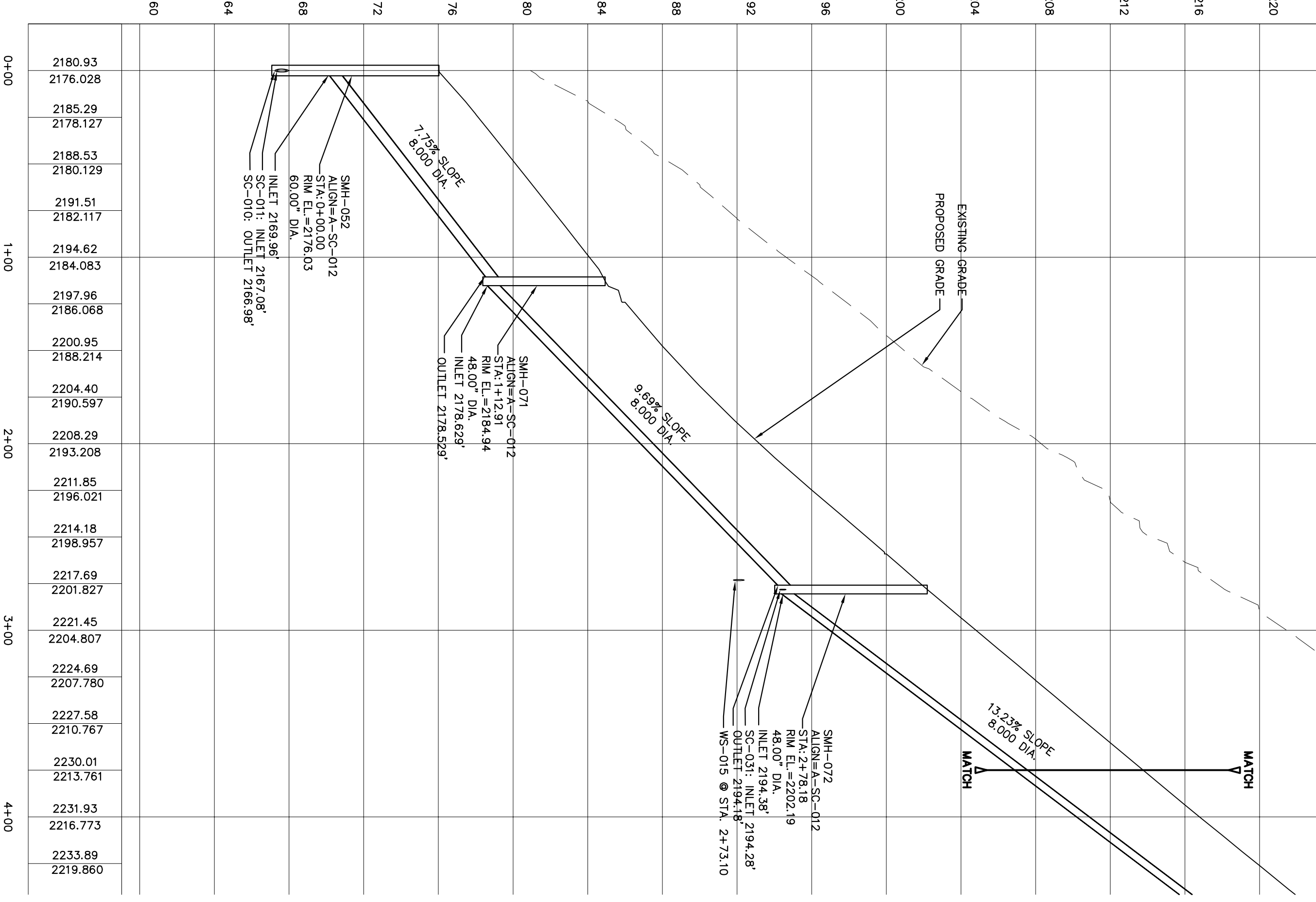
- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROFILE (DESIGNATED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-XXX)
- BOUNDARY LINE



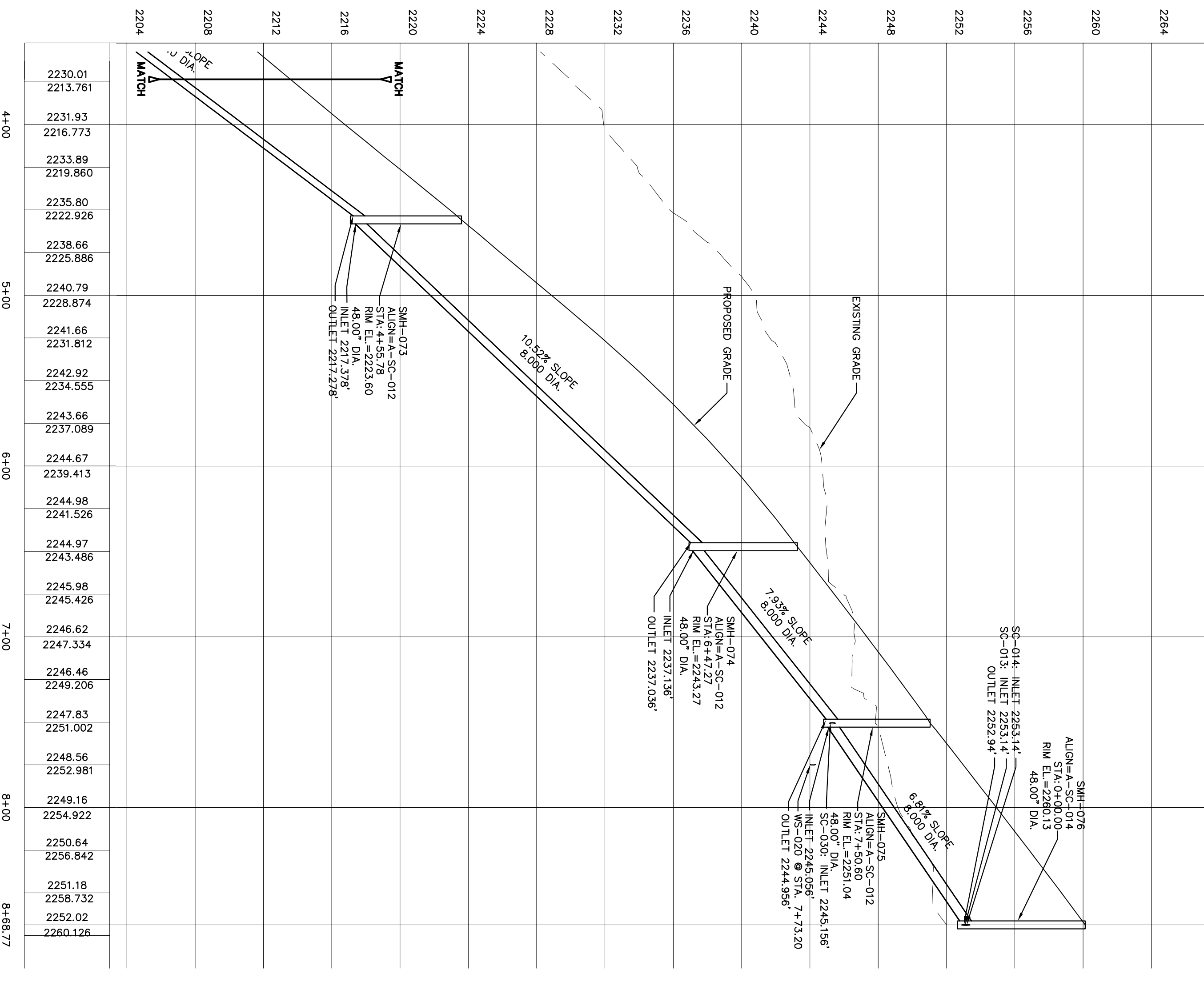
2 SC-011 PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



3 SC-011A PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



4 SC-012 PROFILE  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



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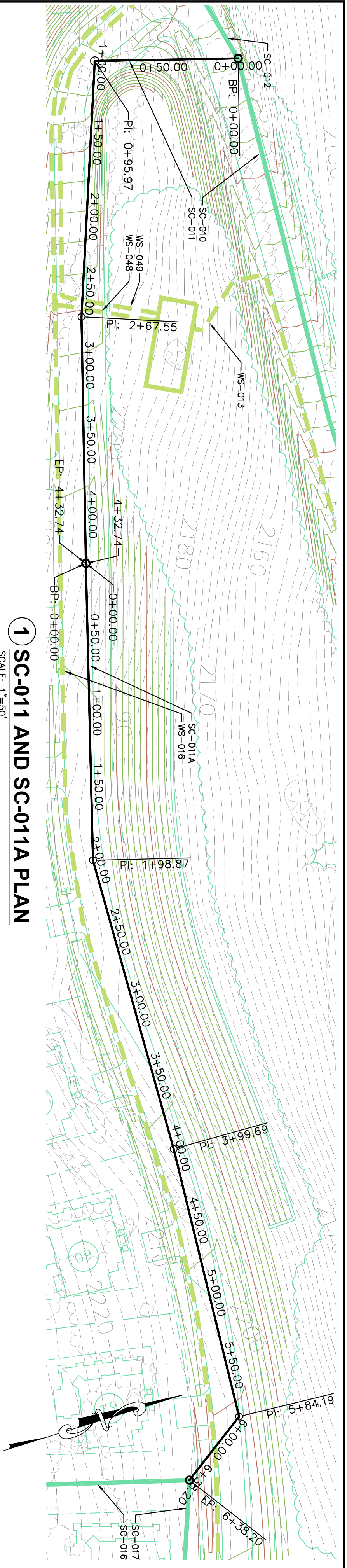
REV	DATE	DESCRIPTION

**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

PROJECT: 16420702  
 DATE: NOV 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LJS, SJP  
 CHECKED BY: KAS, DOE

DRAWING:  
**SC-11**

SHEET 11 OF 28



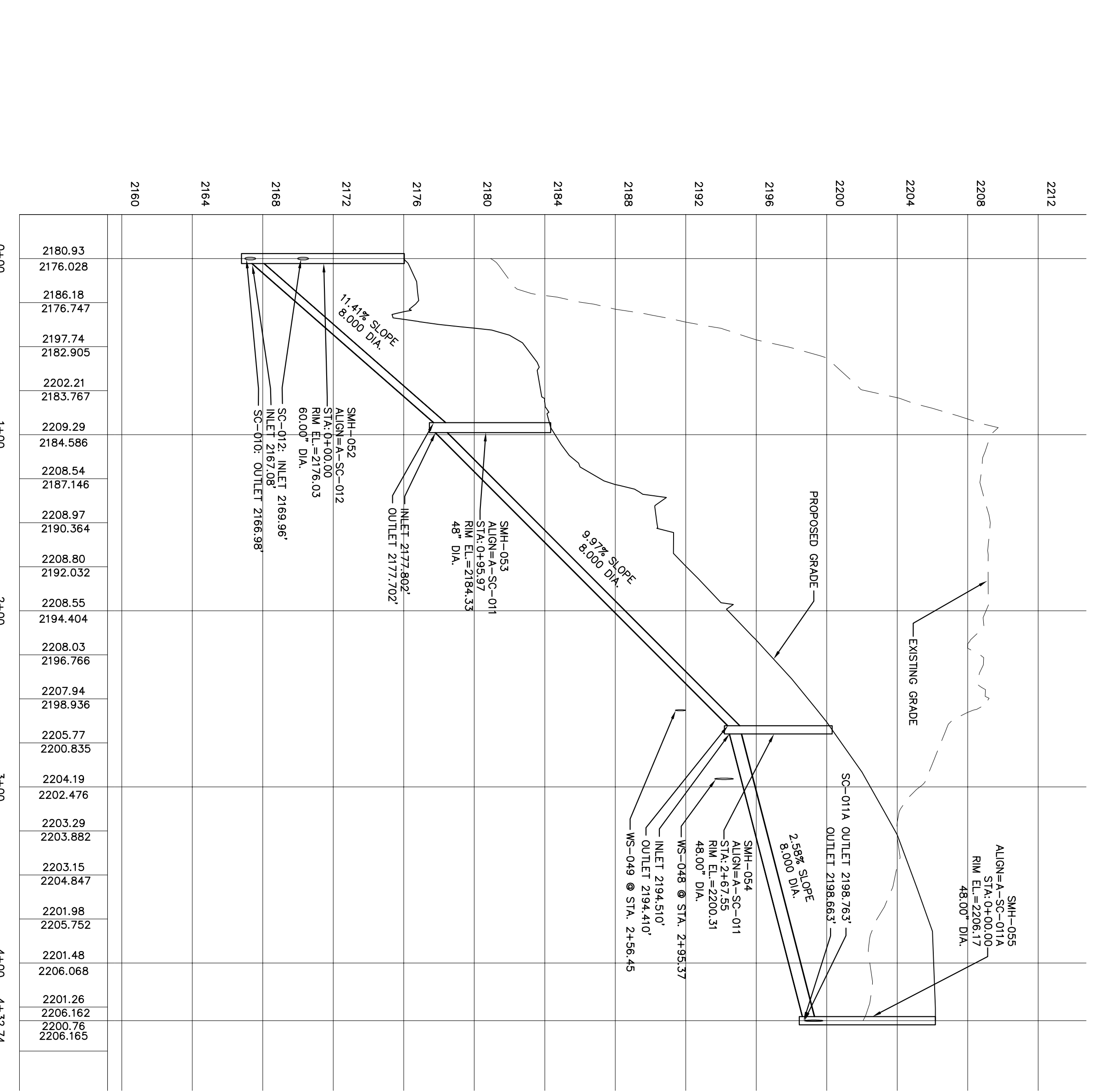
1 SC-011 AND SC-011A PLAN  
 SCALE: 1"=50'



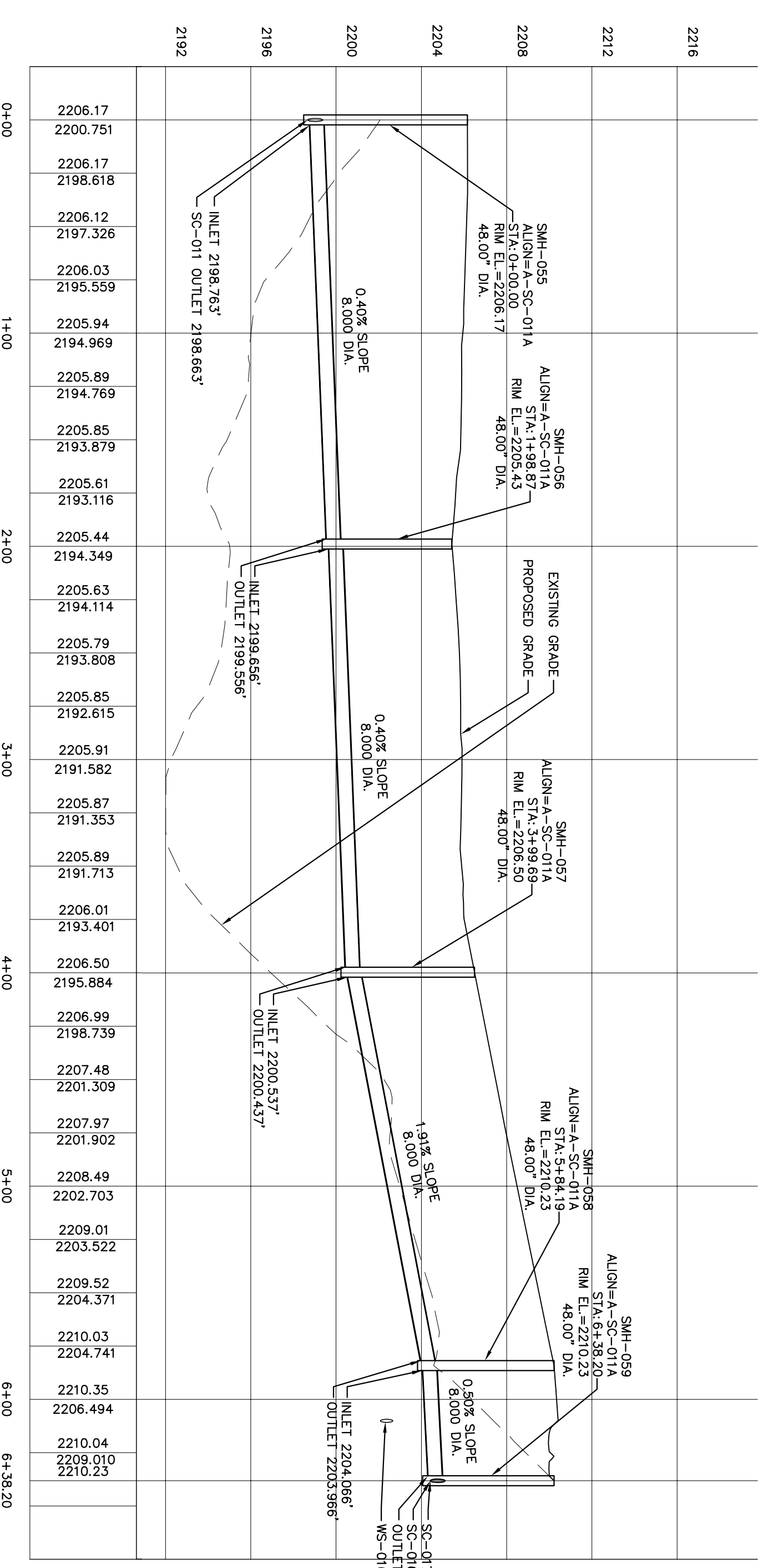
3 SC-012 PLAN  
 SCALE: 1"=50'

PLAN LEGEND

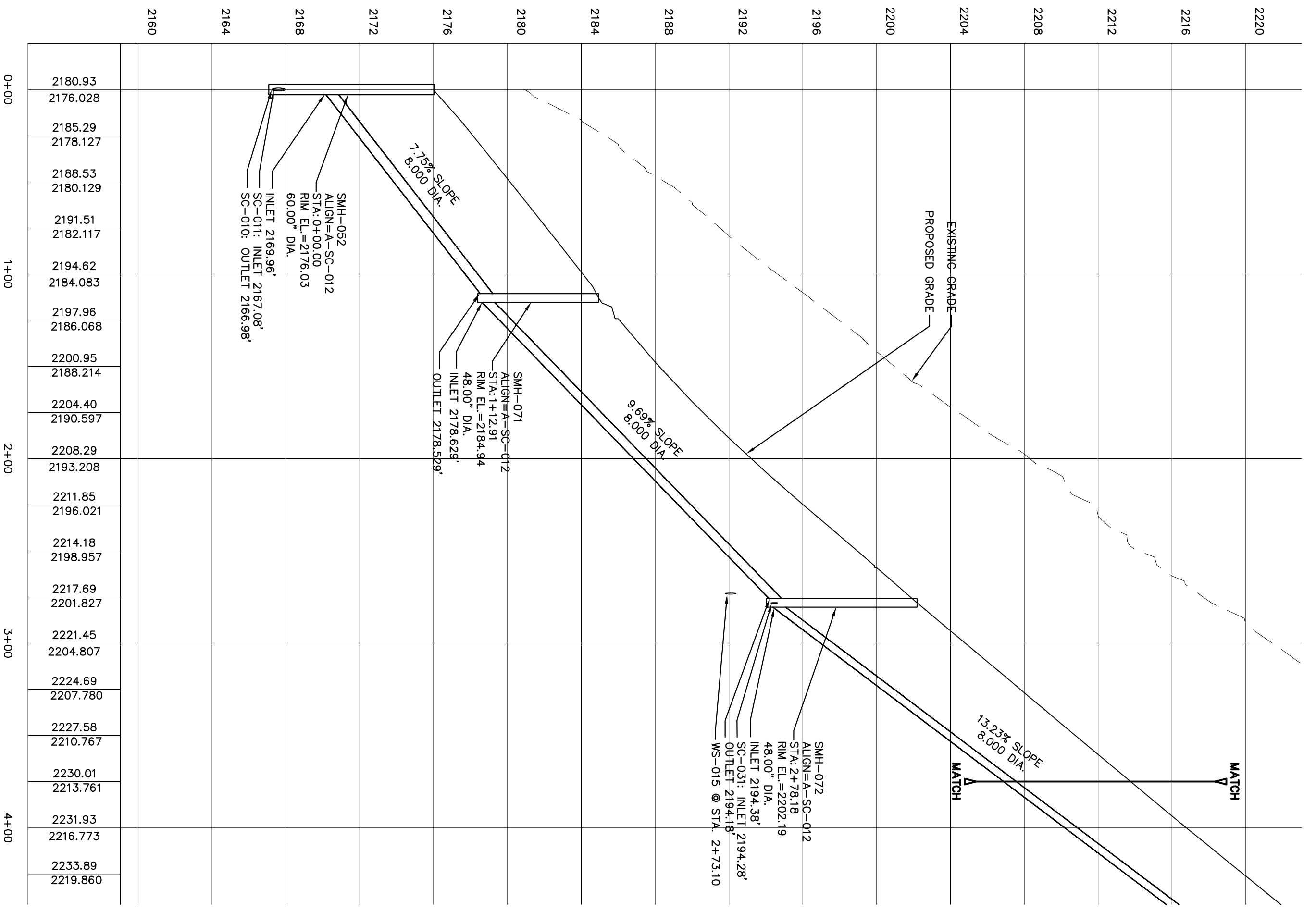
- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROFILE (DESIGNATED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-XXX)
- BOUNDARY LINE



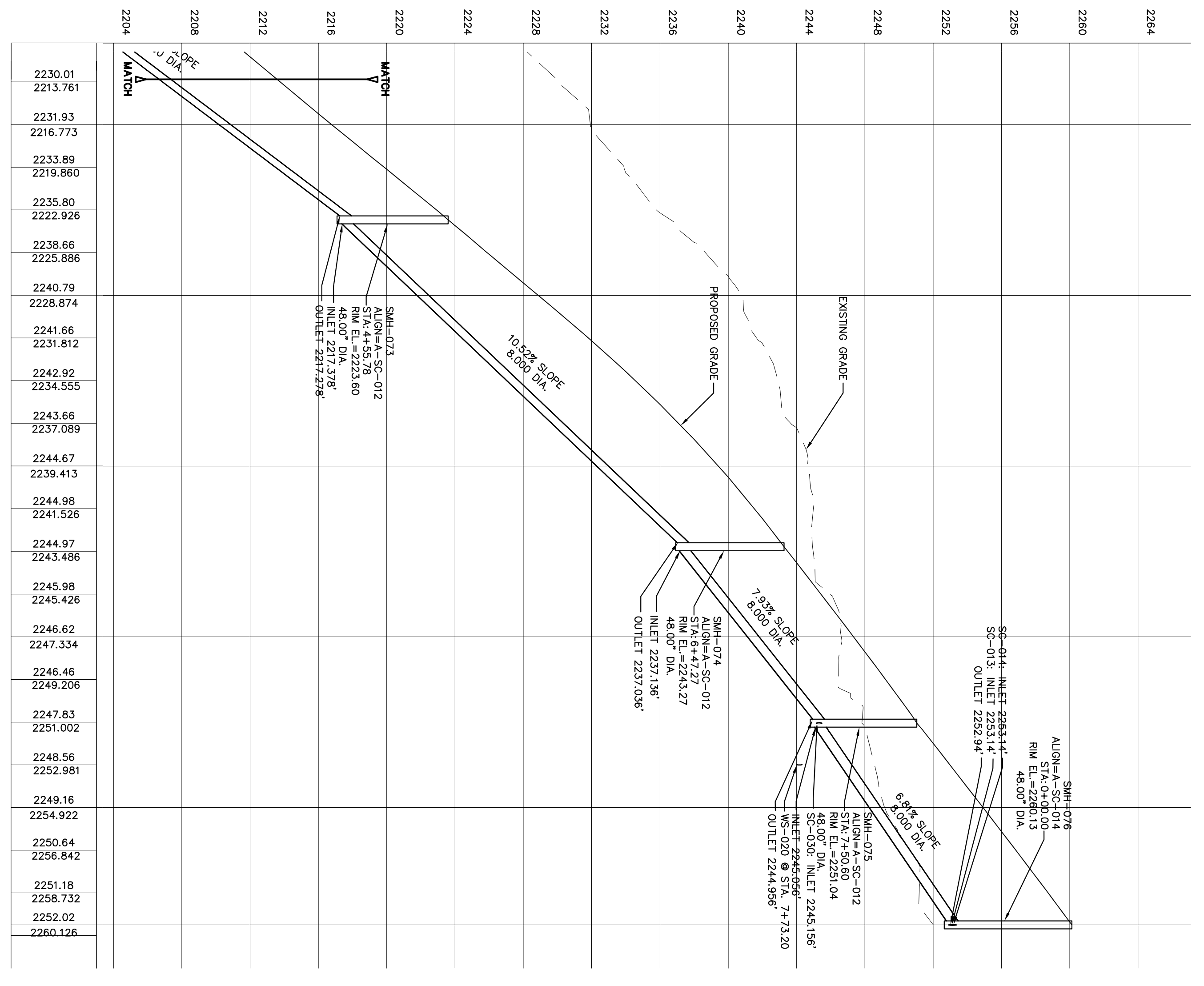
2 SC-011 PROFILE  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=45'



3 SC-011A PROFILE  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=45'



4 SC-012 PROFILE  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=45'



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 SUREYORS, ARCHITECTS AND ENGINEERS  
 CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION

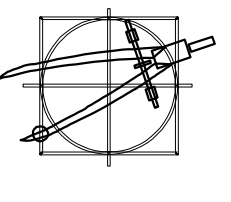
PRELIMINARY SEWAGE COLLECTION PLANS  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

PROJECT: 164207-02  
 DATE: NOV 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LJS, SNP  
 DESIGNED BY: KAS, DOE  
 CHECKED BY: KAS, DOE

DRAWING:  
**SC-11**

SHEET 11 OF 28

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE NECESSARY INFORMATION FOR THE CONTRACTOR TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED HEREON.



# KAATERSKILL ASSOCIATES

SURVEYORS, ARCHITECTS AND ENGINEERS

CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION	APP

**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 TOWN OF WINDHAM  
 GREENE COUNTY, NY

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**SC-013 PLAN AND PROFILE**

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PROJECT: 16420702  
 DATE: NOV. 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, SJP  
 CHECKED BY: KAS, DEC

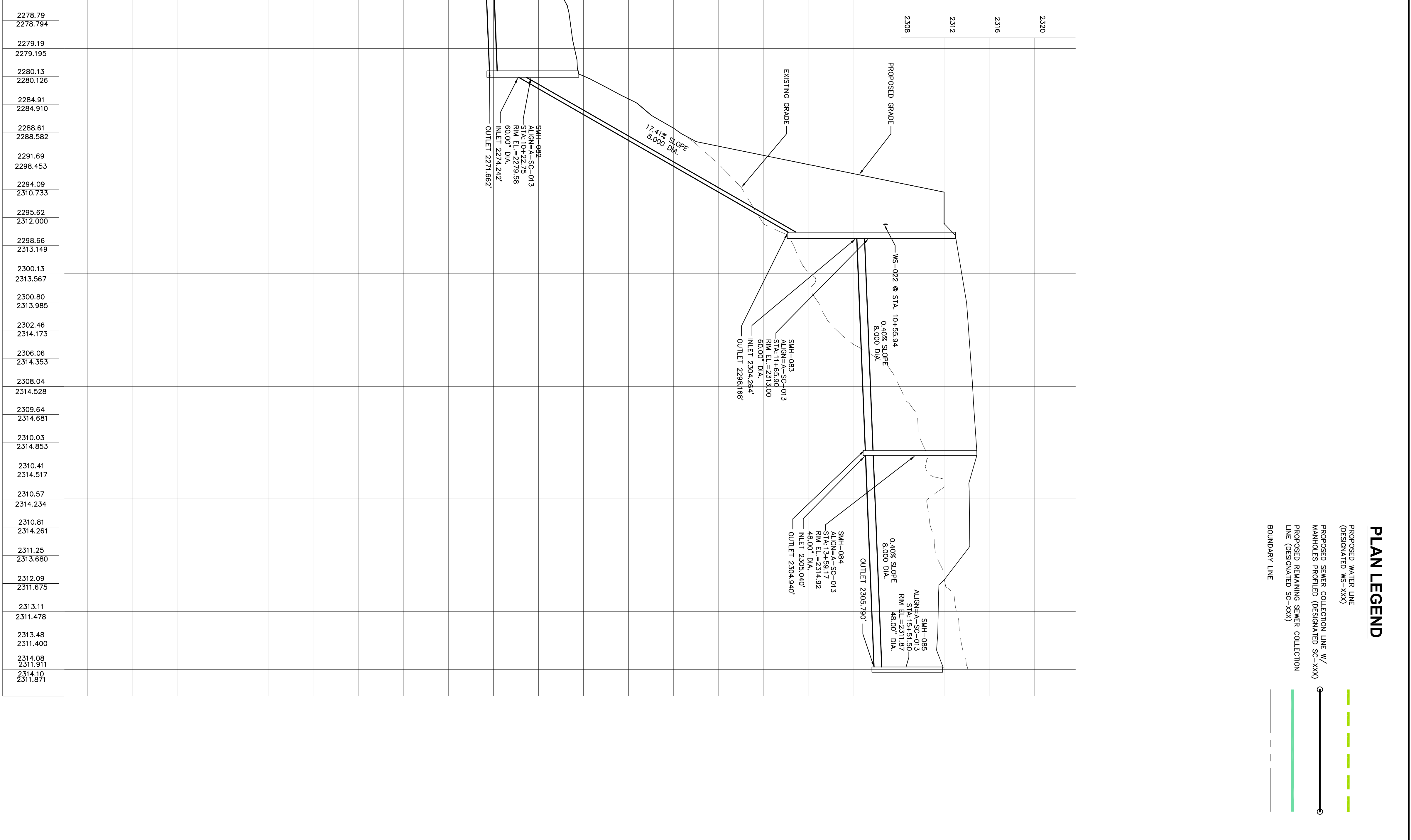
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DRAWING:  
**SC-12**  
 SHEET 12 OF 28

**1 SC-013 PLAN**  
 SCALE: 1"=50'



**2 SC-013 PROFILE**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'

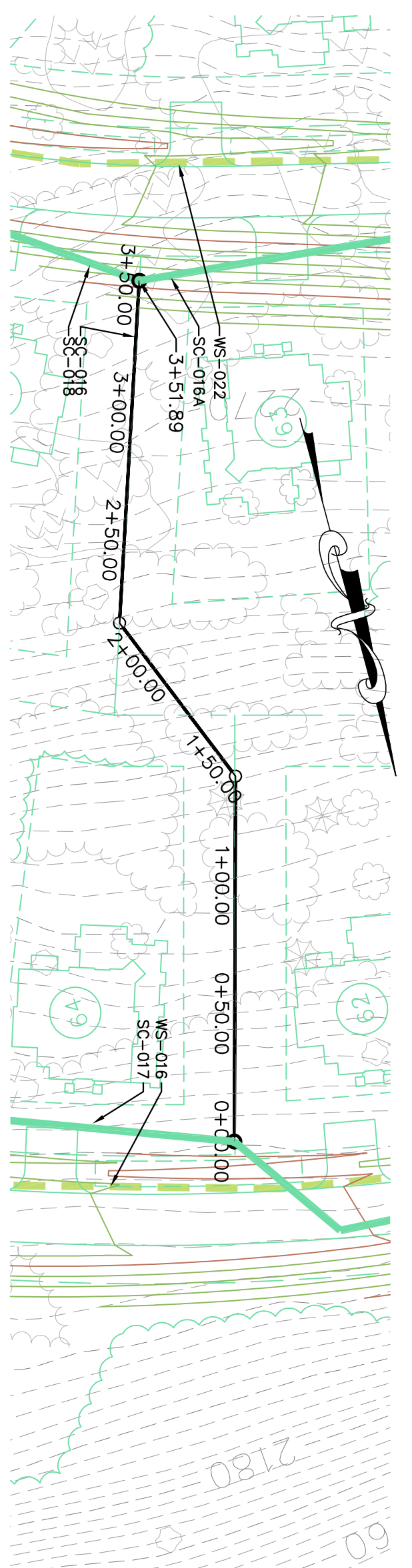


**PLAN LEGEND**

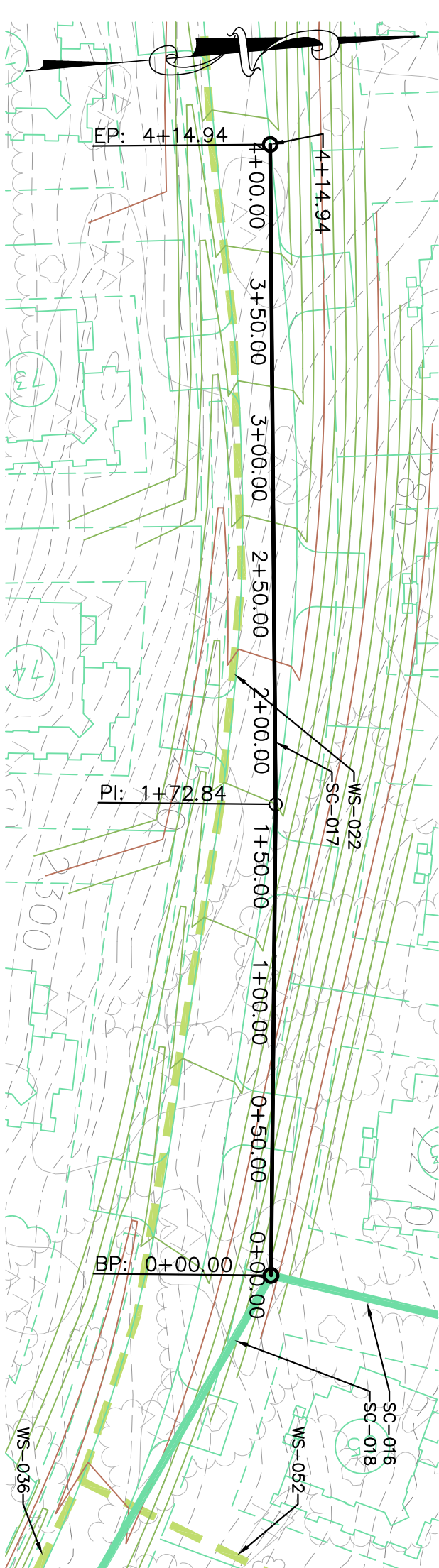
- PROPOSED WATER LINE (DESIGNATED WS-XXX)
- PROPOSED SEWER COLLECTION LINE W/ MANHOLE PROFILES (DESIGNATED SC-XXX)
- PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-XXX)
- BOUNDARY LINE

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO SHOW THE LOCATION AND CHARACTERISTICS OF THE PROPOSED SEWER COLLECTION SYSTEM AND TO PROVIDE THE NECESSARY INFORMATION FOR THE DESIGN OF A FINAL CONTRACT DOCUMENT. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE OWNER. THE DESIGNER ASSUMES NO LIABILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE DESIGNER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY THE DESIGNER. THE DESIGNER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY THE DESIGNER.

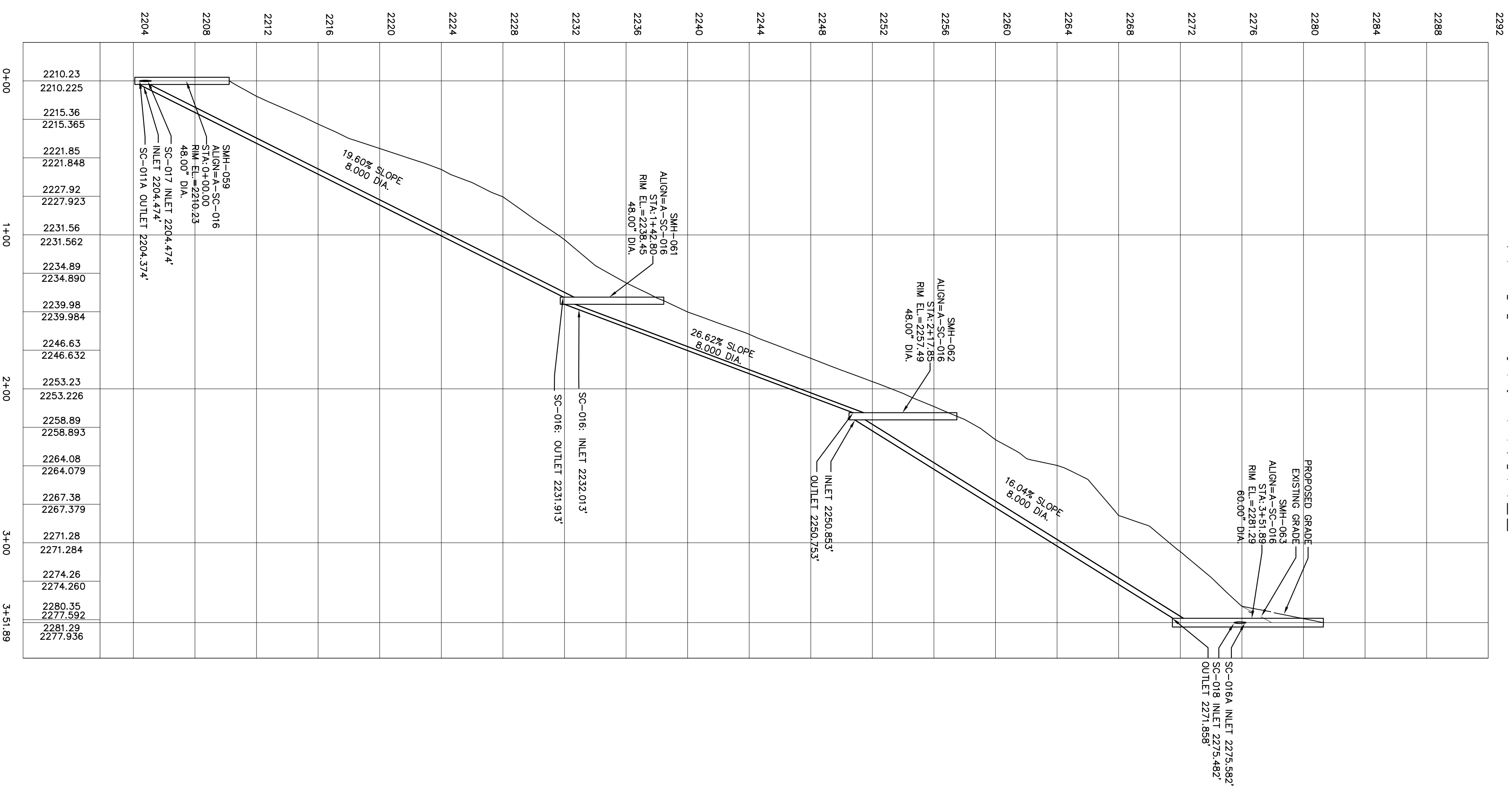




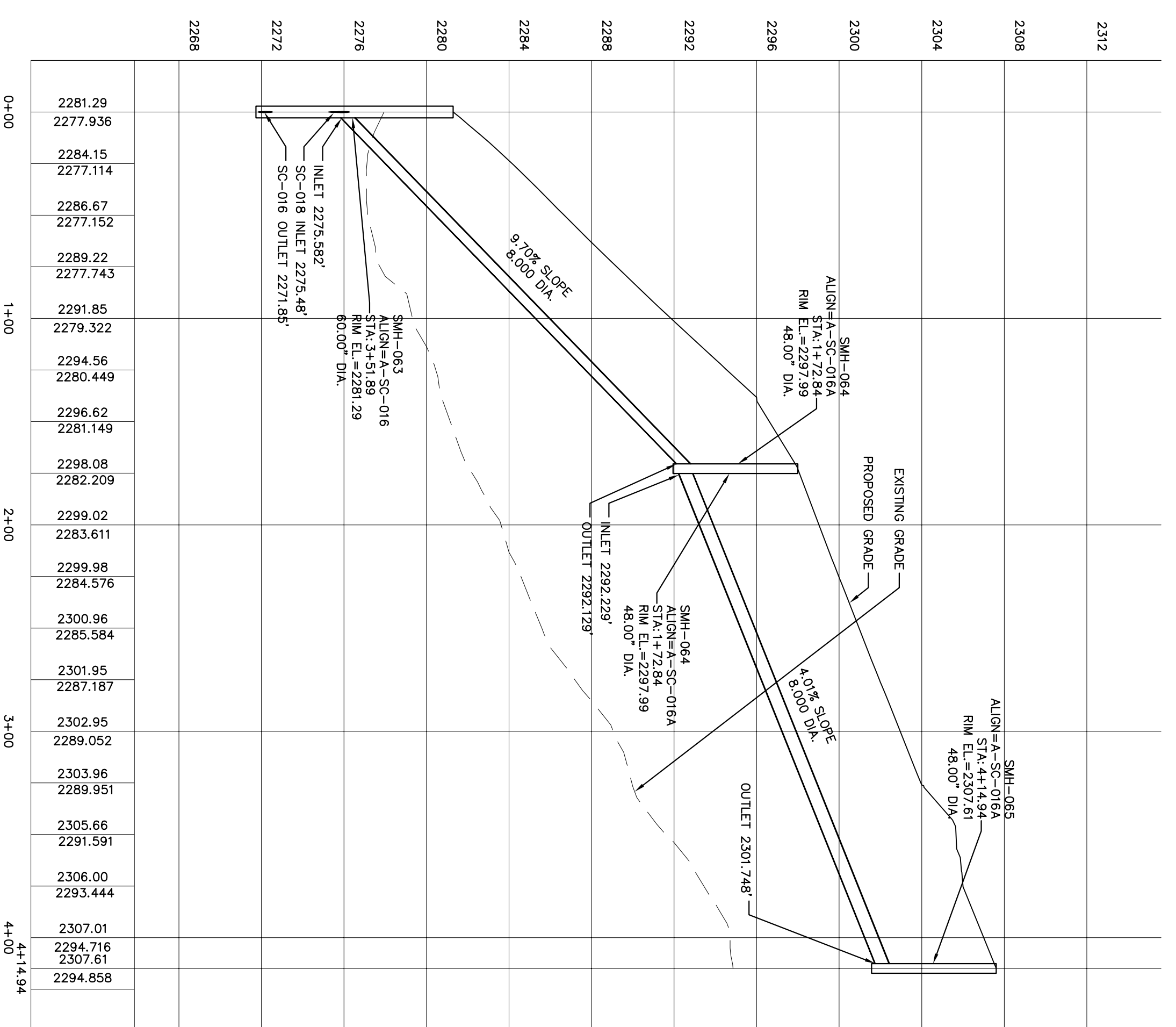
1 SC-016 PLAN  
SCALE: 1"=50'



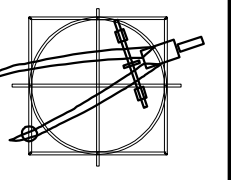
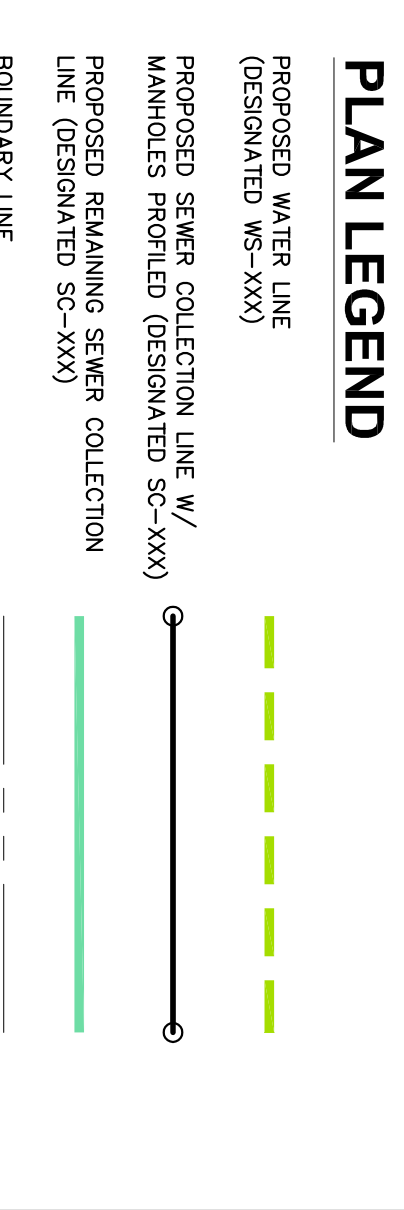
3 SC-016A PLAN  
SCALE: 1"=50'



2 SC-016 PROFILE  
VERTICAL SCALE: 1"=30'



4 SC-016A PROFILE  
VERTICAL SCALE: 1"=30'



# KAATERSKILL ASSOCIATES

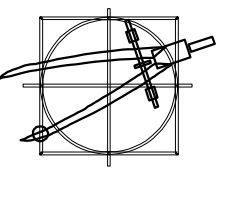
SURVEYORS, ARCHITECTS AND ENGINEERS

CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION

PRELIMINARY SEWAGE COLLECTION PLANS FOR <b>WINDHAM MOUNTAIN SPORTING CLUB</b>		PROJECT: 164207/02	DATE: NOV 2011
TOWN OF WINDHAM		SCALE: AS NOTED	DRAWN BY: KAS, LUS, SNP
GREENE COUNTY, NY		CHECKED BY: KAS, DOE	DESIGNED BY: KAS, DOE
SC-016 AND SC-016A PLAN AND PROFILE		DRAWING: SC-15	SHEET 15 OF 28

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A FUNCTIONALLY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE OWNER WITH A BASIS FOR OBTAINING PERMITS FROM THE COMPETENT AGENCIES OR AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING THE NECESSARY INFORMATION TO THE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING THE NECESSARY INFORMATION TO THE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROVIDING THE NECESSARY INFORMATION TO THE AGENCIES.



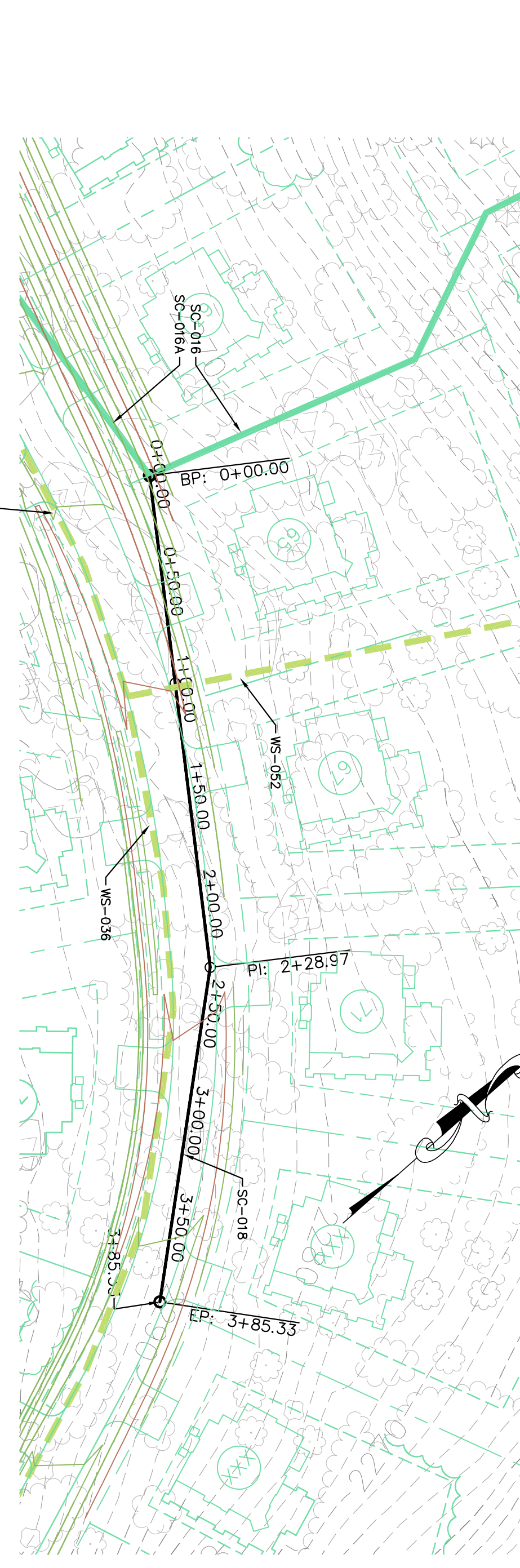
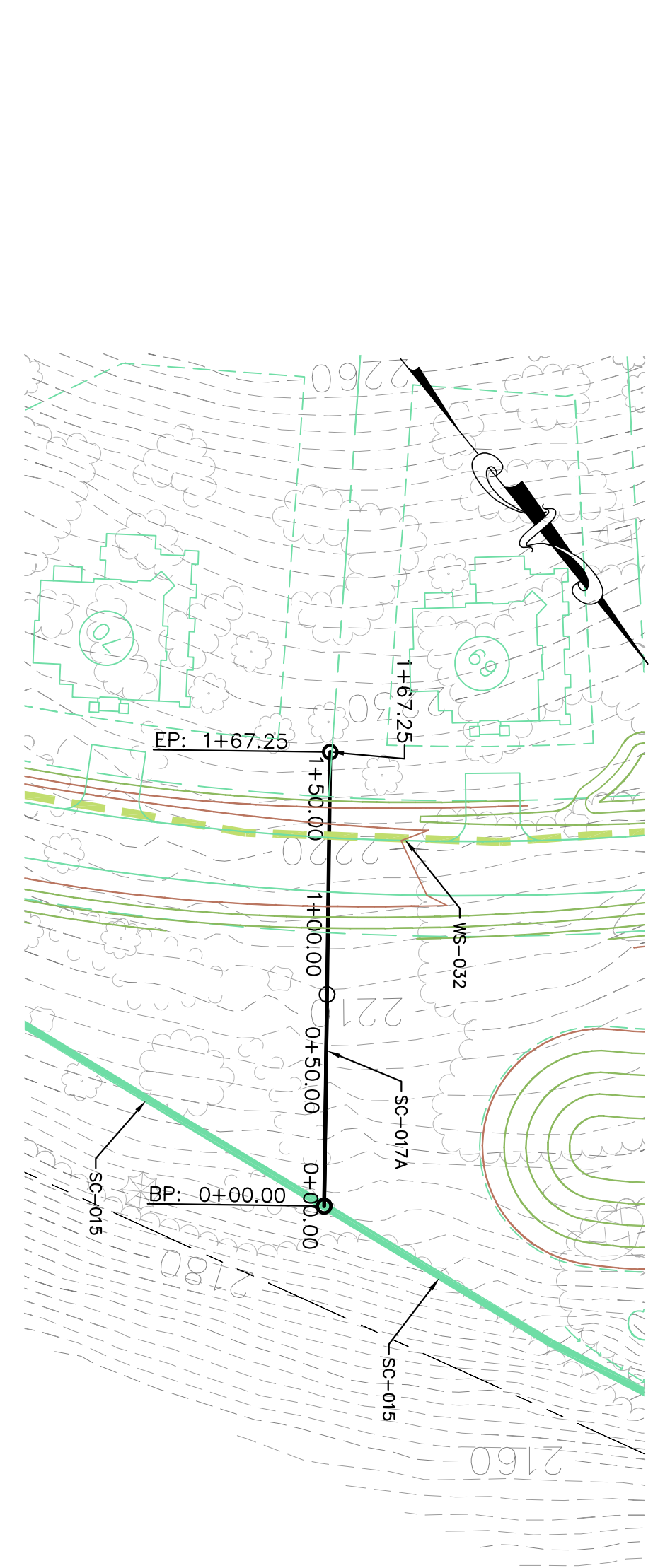
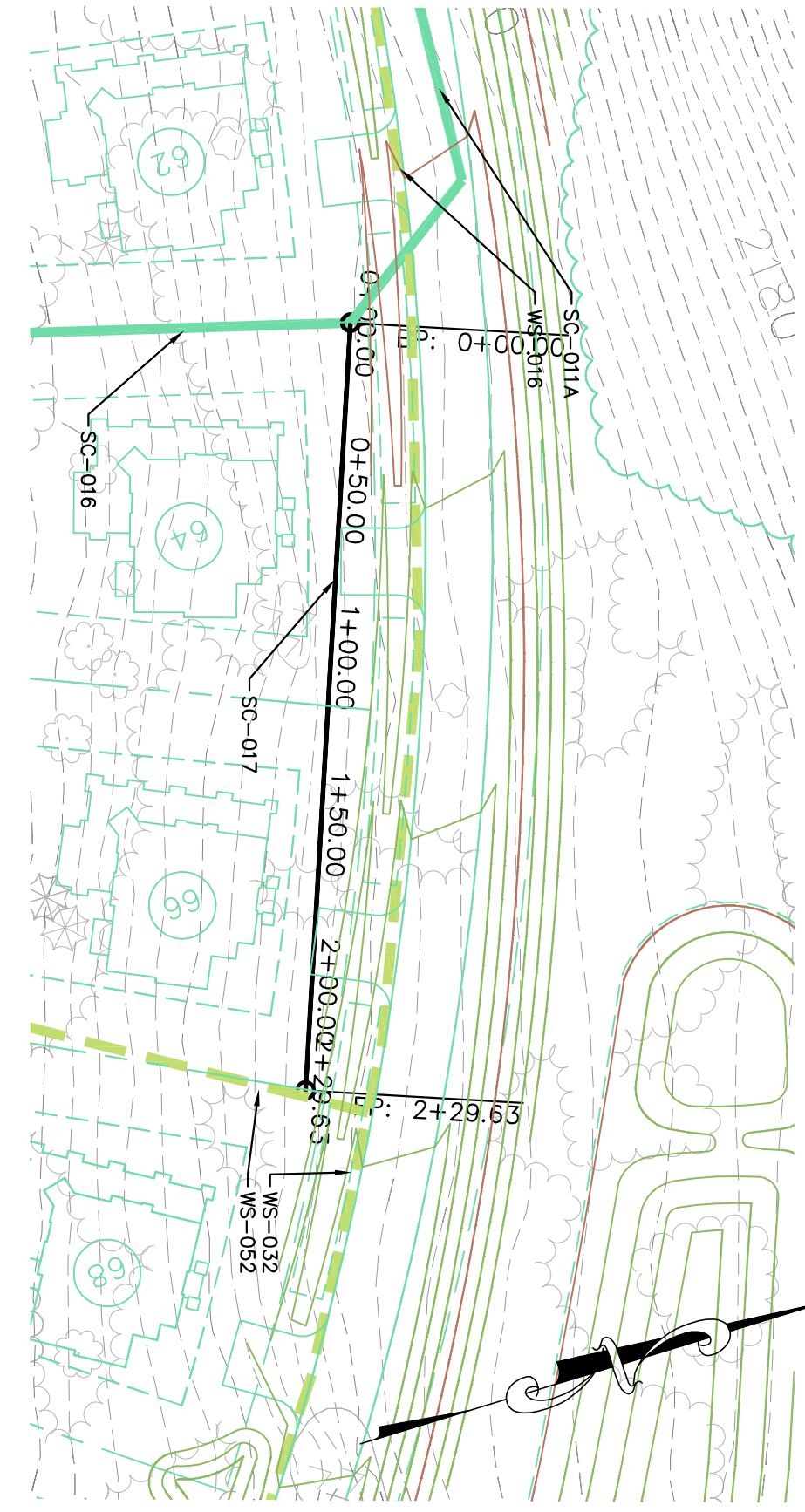
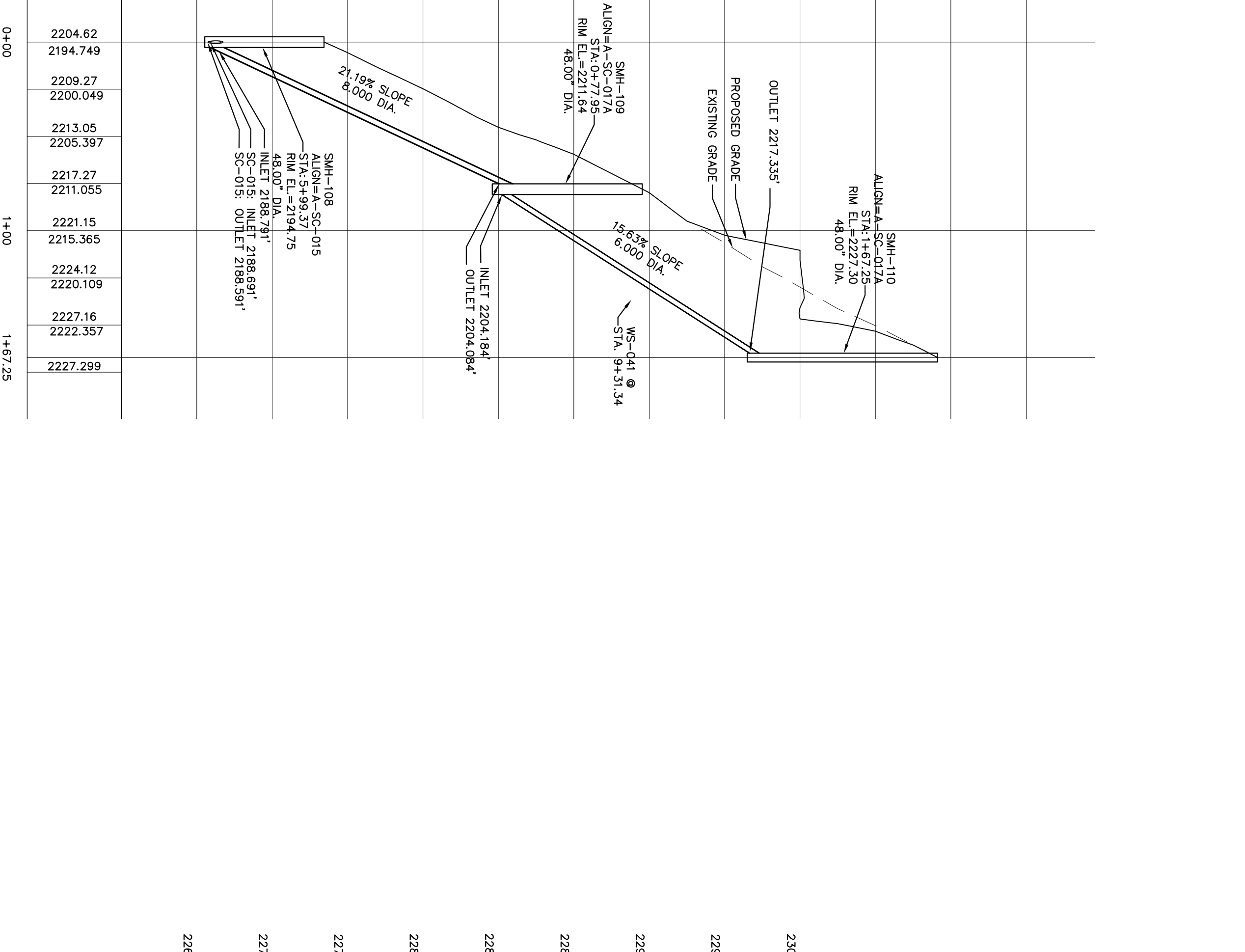
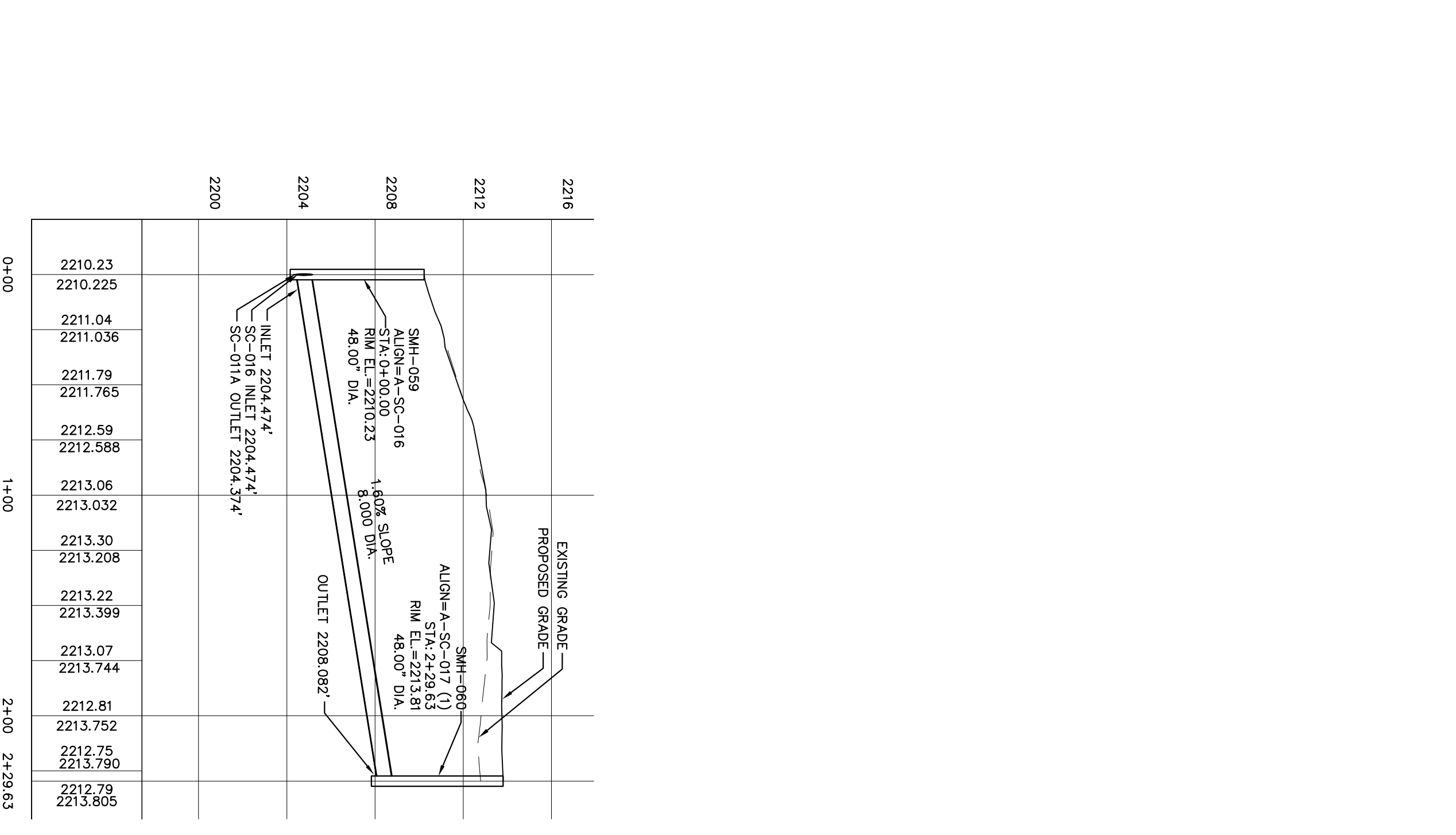
# KAATERSKILL ASSOCIATES

SURVEYORS, ARCHITECTS AND ENGINEERS  
 CAIRO, NY (518)622-9667

REV	DATE	DESCRIPTION	APP

PRELIMINARY SEWAGE COLLECTION PLANS	
FOR	
<b>WINDHAM MOUNTAIN SPORTING CLUB</b>	
TOWN OF WINDHAM	
GREENE COUNTY, NY	
PROJECT:	164207.02
DATE:	NOV. 2011
SCALE:	AS NOTED
DRAWN BY:	KAS, LJS, SJP
DESIGNED BY:	KAS, DOE
CHECKED BY:	KAS, DOE

IT IS THE INTENT OF THIS DRAWING TO DESCRIBE A PRELIMINARY COMPLETE PROJECT (OR PART THEREOF) AND TO PROVIDE THE OWNER WITH THE INFORMATION REQUIRED TO OBTAIN THE NECESSARY PERMITS AND TO CONSTRUCT THE PROJECT. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ENGINEER. THE ENGINEER'S OBLIGATION IS LIMITED TO THE DESIGN OF THE PROJECT AND TO THE PERFORMANCE OF THE SERVICES SPECIFICALLY REFERRED TO IN THE CONTRACT. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF ANY OTHER WORK OR FOR THE PERFORMANCE OF ANY OTHER SERVICES. THE ENGINEER'S OBLIGATION IS LIMITED TO THE DESIGN OF THE PROJECT AND TO THE PERFORMANCE OF THE SERVICES SPECIFICALLY REFERRED TO IN THE CONTRACT. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF ANY OTHER WORK OR FOR THE PERFORMANCE OF ANY OTHER SERVICES.



**PLAN LEGEND**

PROPOSED WATER LINE (DESIGNATED SC-WXX)	---
PROPOSED SEWER COLLECTION LINE W/ MANHOLES PROVIDED (DESIGNATED SC-SXX)	---
PROPOSED REMAINING SEWER COLLECTION LINE (DESIGNATED SC-SXX)	---
BOUNDARY LINE	---















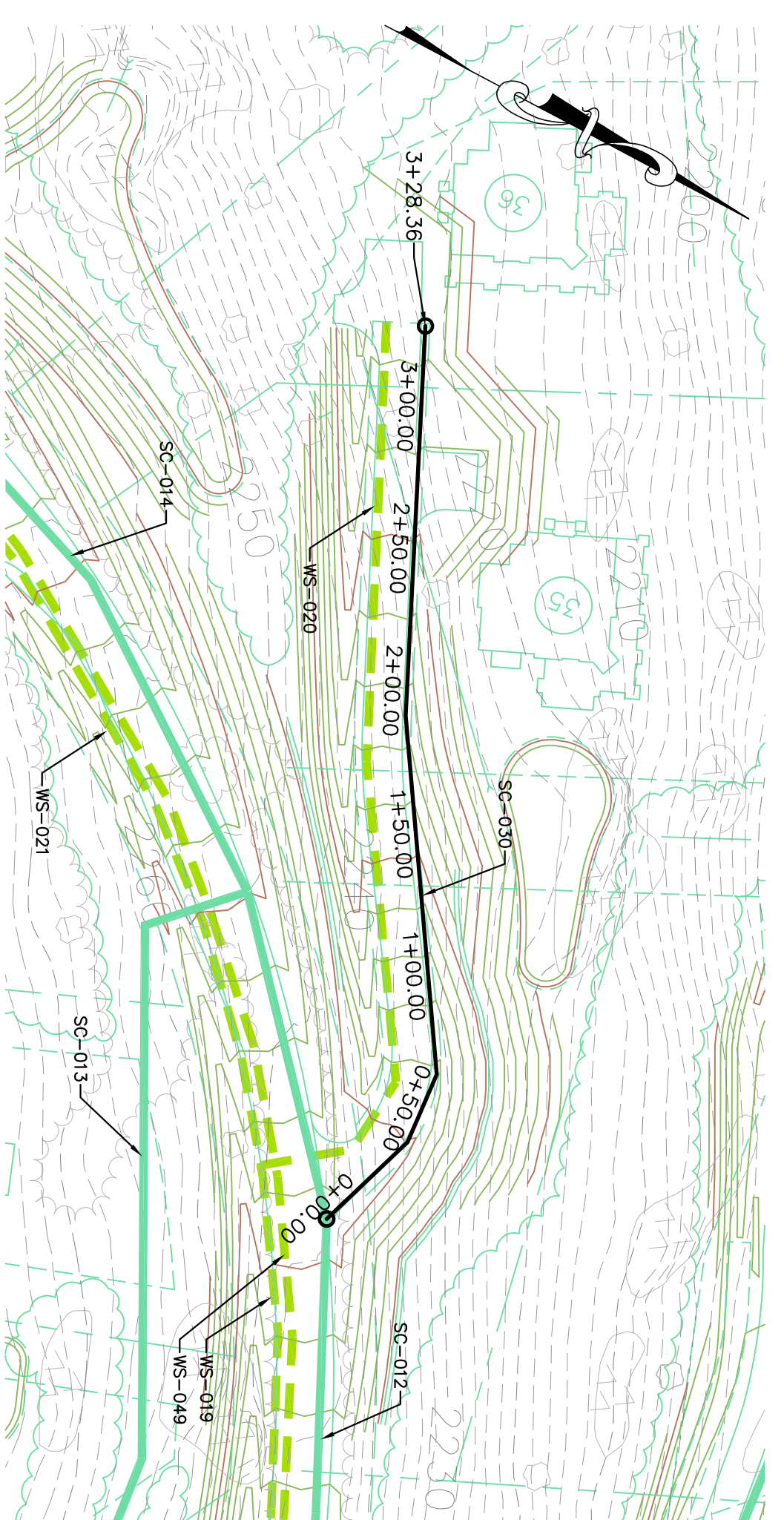




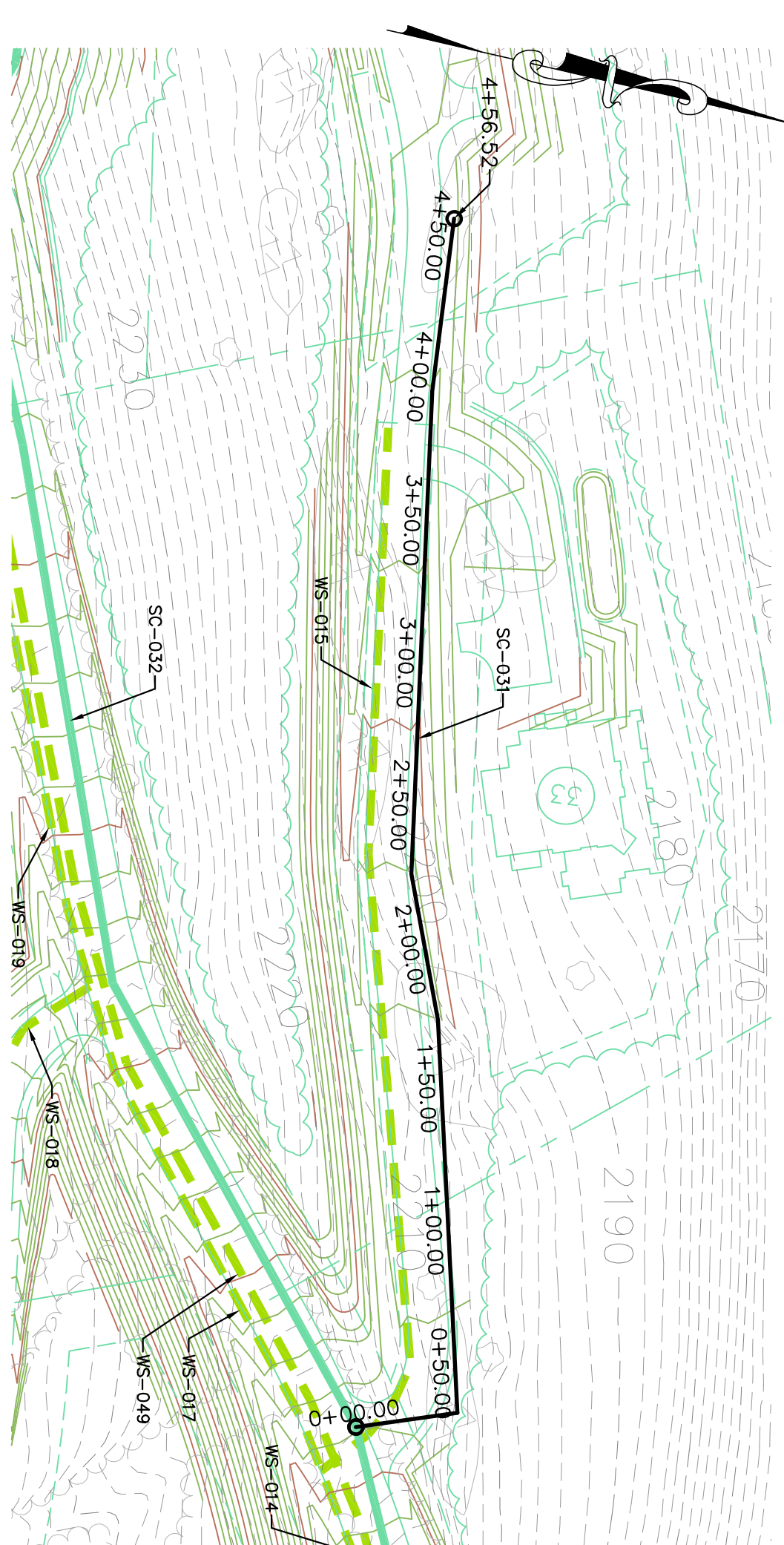




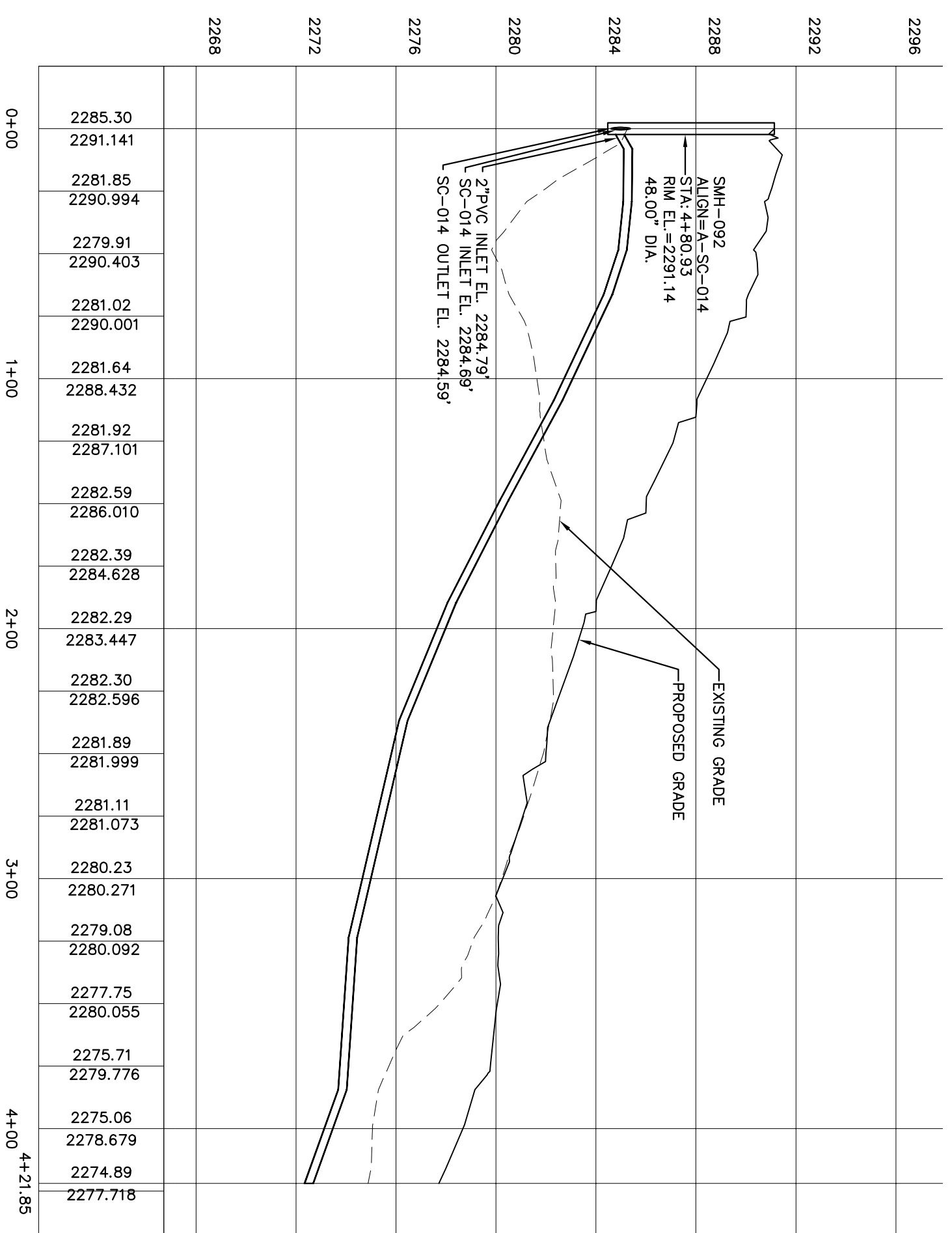
**1 SC-029 PLAN**  
 SCALE: 1"=50'



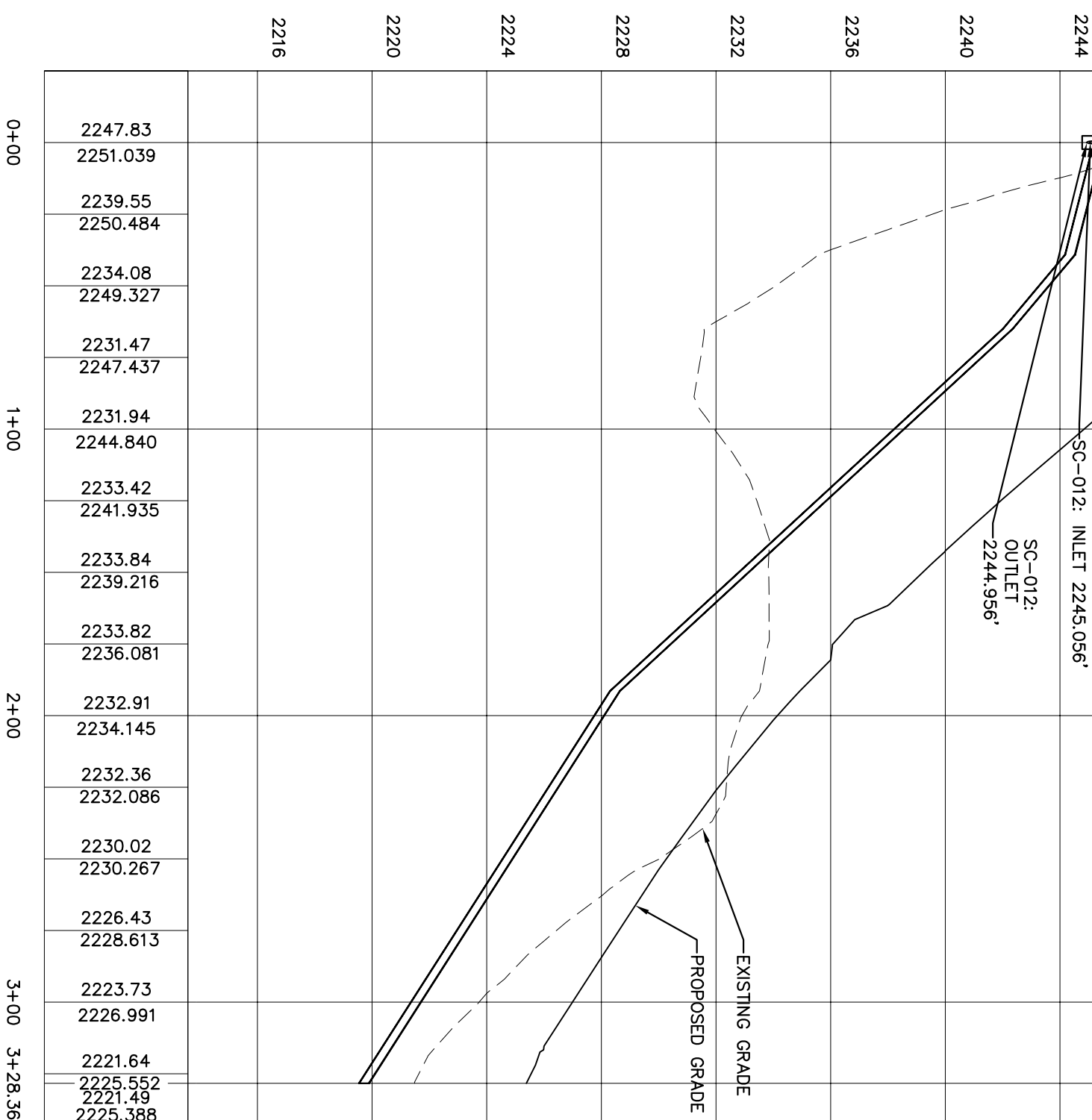
**3 SC-030 PLAN**  
 SCALE: 1"=50'



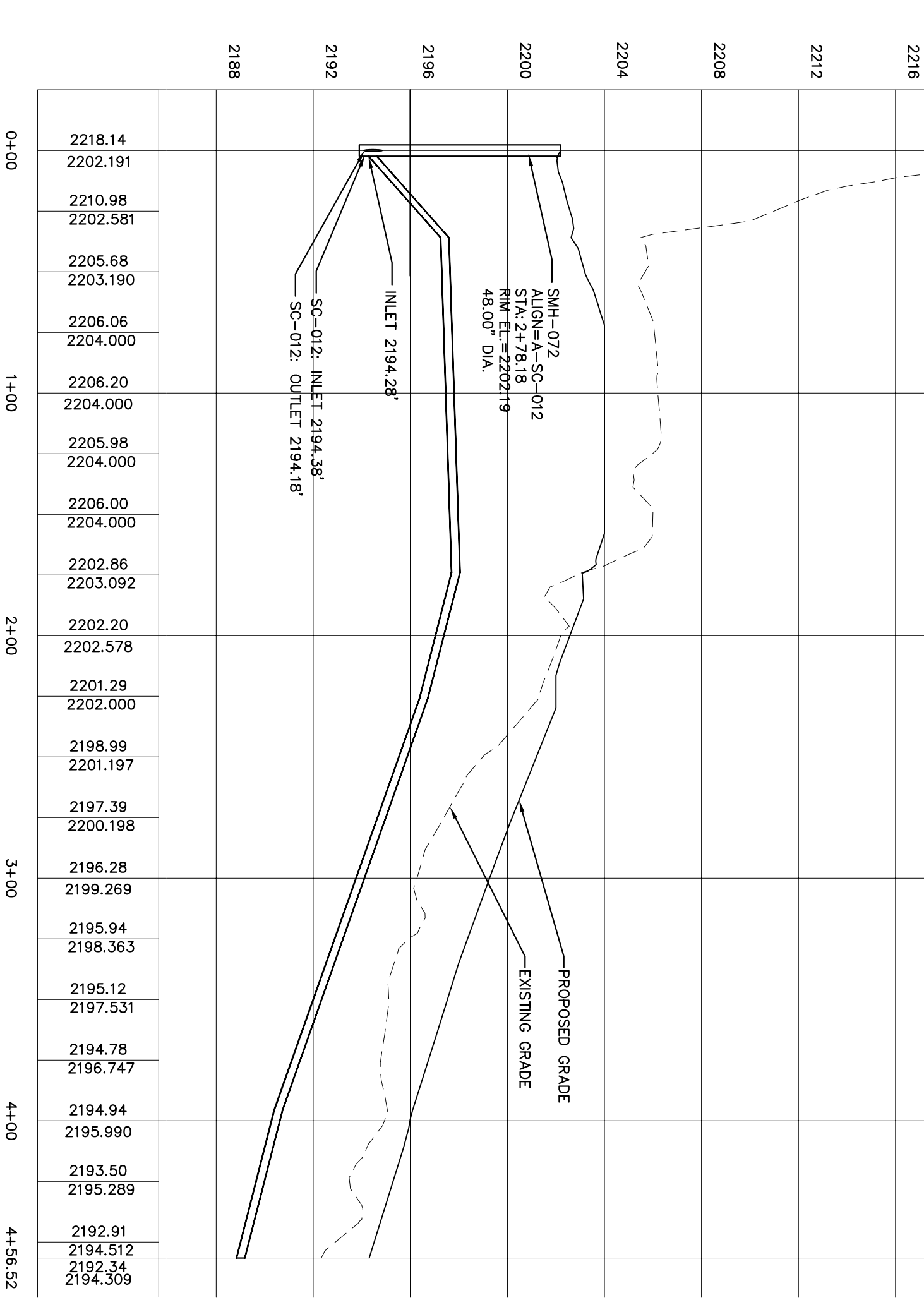
**5 SC-031 PLAN**  
 SCALE: 1"=50'



**2 SC-029 PROFILE**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'



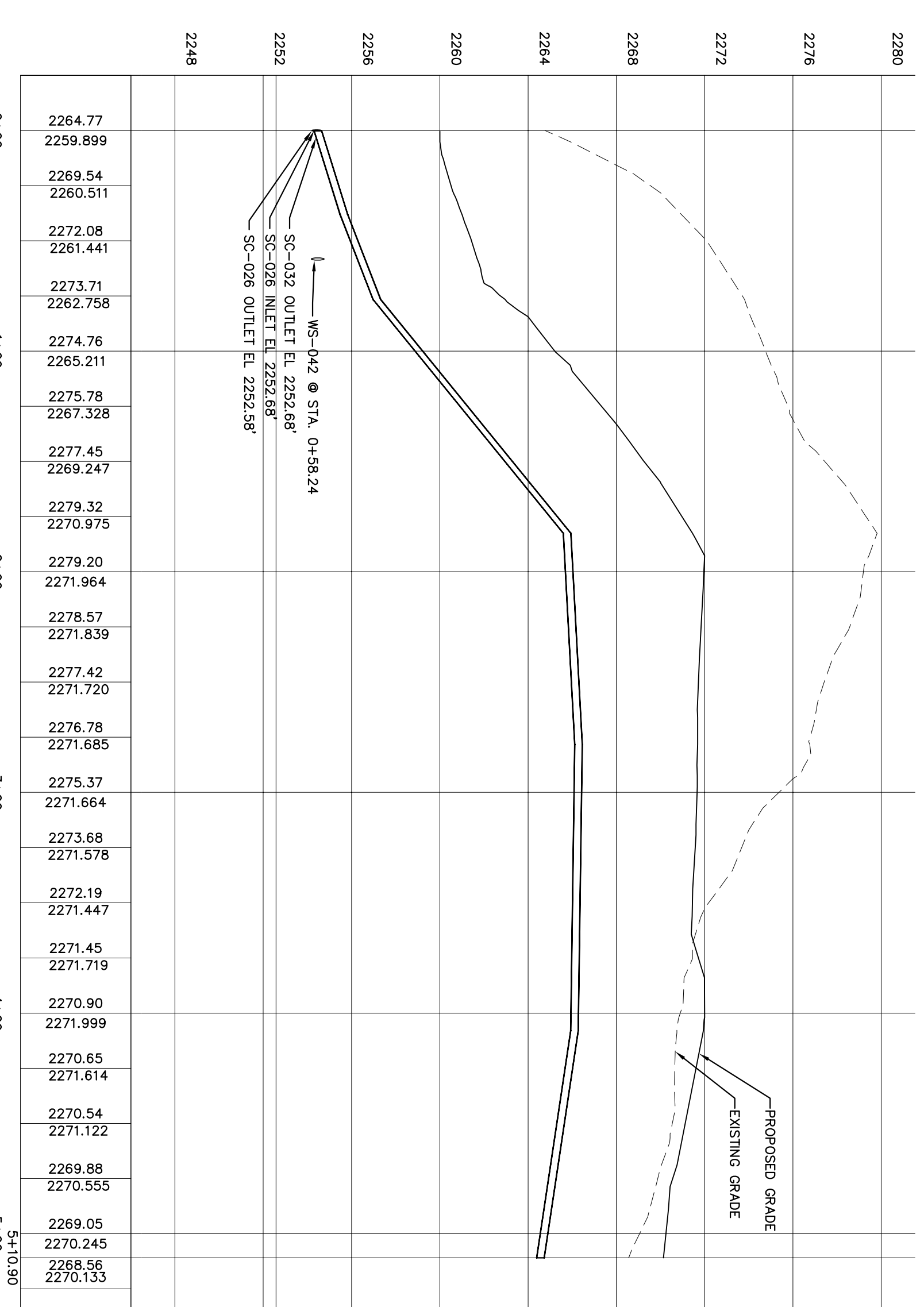
**4 SC-030 PROFILE**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'



**6 SC-031 PROFILE**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'



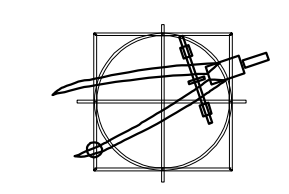
**7 SC-032 PLAN**  
 SCALE: 1"=50'



**8 SC-032 PROFILE**  
 HORIZONTAL SCALE: 1"=50'  
 VERTICAL SCALE: 1"=5'

**PLAN LEGEND**

- PROPOSED WATER LINE (DESIGNATED WS-XXX) ————
- PROPOSED SEWER COLLECTION LINE W/ MANHOLES REPLED (DESIGNATED SC-XXX) ————
- PROPOSED SEWER COLLECTION LINE (DESIGNATED SC-XXX) ————
- BOUNDARY LINE ————



**KAATERSKILL ASSOCIATES**  
 SURVEYORS, ARCHITECTS AND ENGINEERS  
 CARO, NY (518)225-9667

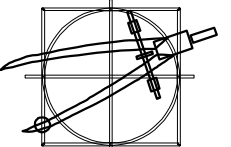
REV.	DATE	DESCRIPTION

**PRELIMINARY SEWAGE COLLECTION PLANS**  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 GREENE COUNTY, NY

PROJECT: 164207/02  
 DATE: NOV. 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, US, SMP  
 CHECKED BY: KAS, DOE

DRAWING: SC-25  
 SHEET 29 OF 28

IT IS THE DUTY OF THE ENGINEER TO EXAMINE THE PROJECT FOR ALL NECESSARY INFORMATION, AND TO REPORT THEREON TO THE CLIENT. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE INFORMATION PROVIDED AND THE DESIGN THEREOF. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED OR THE DESIGN THEREOF. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF THE SEWER COLLECTION SYSTEM. THE CLIENT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SEWER COLLECTION SYSTEM. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING OUT OF OR RESULTING FROM THE USE OF THE SEWER COLLECTION SYSTEM. THE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN OF THE SEWER COLLECTION SYSTEM. THE CLIENT SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF THE SEWER COLLECTION SYSTEM. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, ARISING OUT OF OR RESULTING FROM THE USE OF THE SEWER COLLECTION SYSTEM.



# KAATERSKILL ASSOCIATES

SURVEYORS, ARCHITECTS AND ENGINEERS

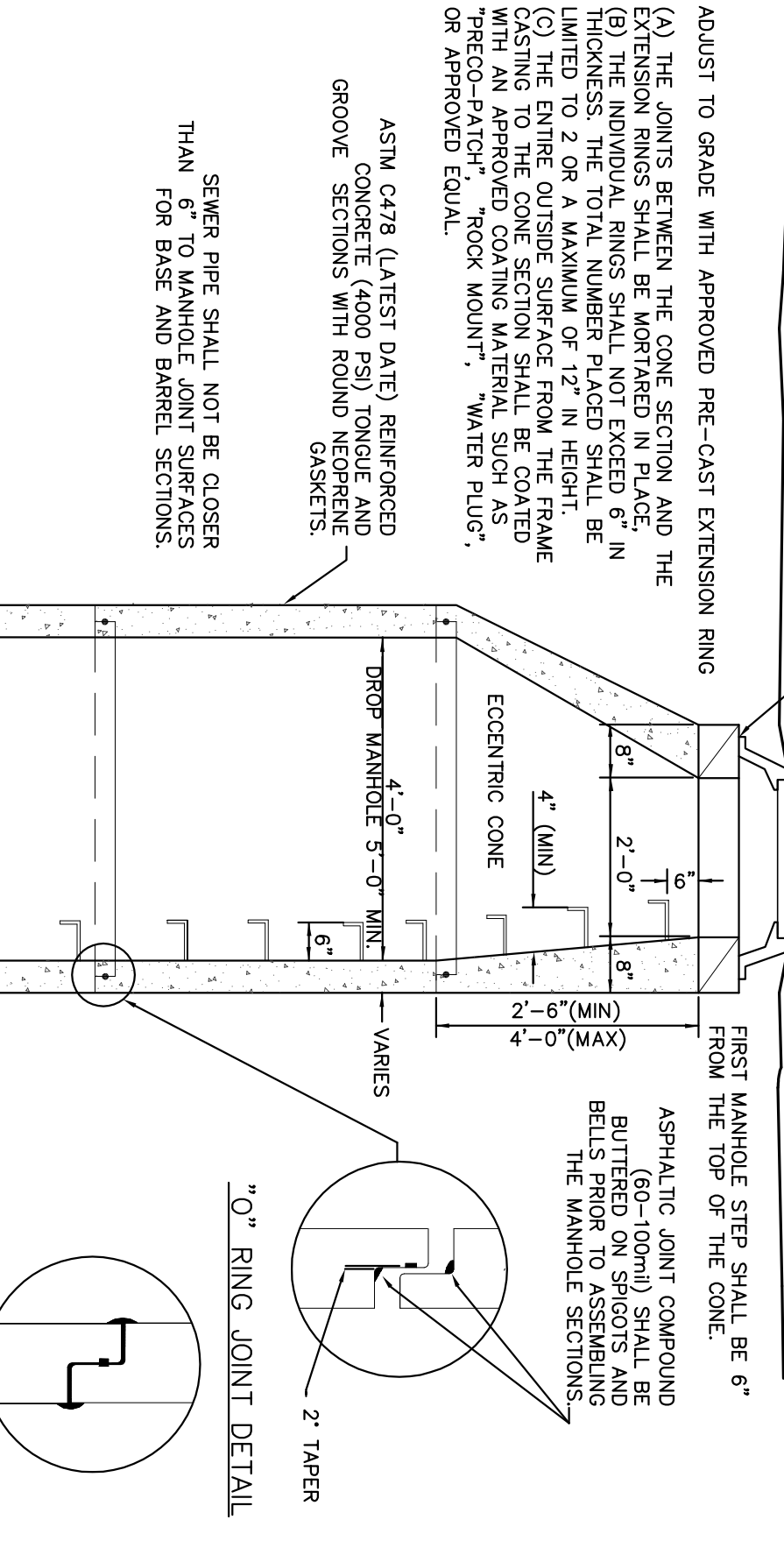
CAROLINE, NY (516)222-9867

REV.	DATE	DESCRIPTION

PROJECT:	164207/02	DATE:	NOV. 2011
SCALE:	AS NOTED	DRAWN BY:	KAS, LJS, SNP
CHECKED BY:	KAS, DOE	DESIGNED BY:	KAS, DOE
PROJECT:	PRELIMINARY SEWAGE COLLECTION PLANS		
FOR:	WINDHAM MOUNTAIN SPORTING CLUB		
TOWN OF:	WINDHAM	COUNTY:	GREENE COUNTY, NY
DRAWING:	SC-27	SHEET:	27 OF 28

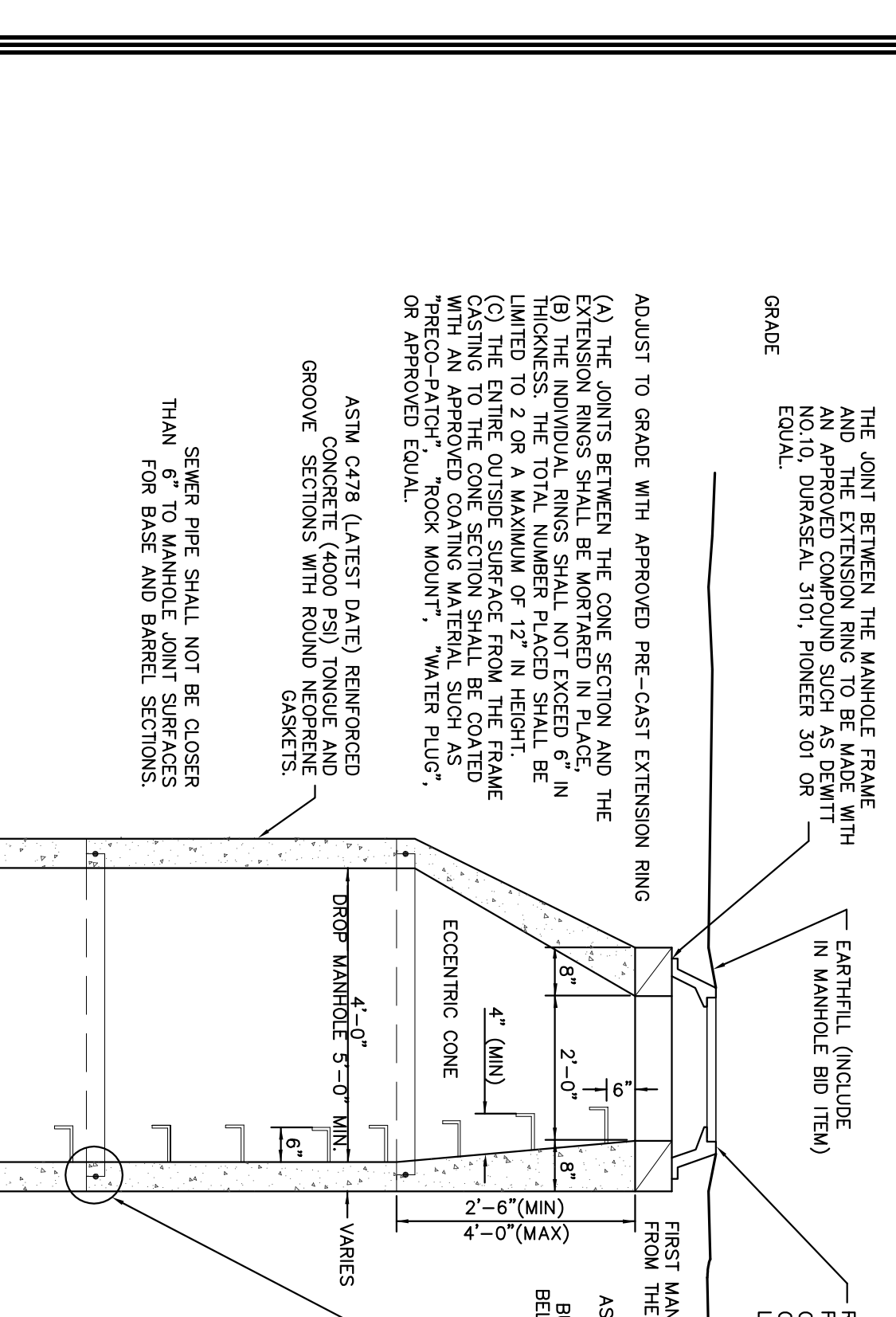
IT IS THE DUTY OF THE SURVEYOR TO EXAMINE THE CONTRACT DOCUMENTS FOR ANY AND ALL ERRORS, OMISSIONS OR CONFLICTS. THE CONTRACT DOCUMENTS ARE MADE UP OF THE PRELIMINARY SEWAGE COLLECTION PLAN, THESE PLANS, AND ANY ADDITIONAL AMENDMENTS OR NOTES. THE SURVEYOR'S RESPONSIBILITY IS LIMITED TO THE FIELD OF WORK AS SPECIFIED IN THESE PLANS. THE SURVEYOR DOES NOT GUARANTEE THE ACCURACY OF THE DATA OR THE RESULTS OF THE SURVEY. THE SURVEYOR'S RESPONSIBILITY IS LIMITED TO THE FIELD OF WORK AS SPECIFIED IN THESE PLANS. THE SURVEYOR DOES NOT GUARANTEE THE ACCURACY OF THE DATA OR THE RESULTS OF THE SURVEY.

THE JOINT BETWEEN THE MANHOLE FRAME AND THE EXTENSION RING TO BE MADE WITH AN APPROVED COMPOUND SUCH AS SEMT BELL'S "ROCK MOUNT" WATER PLUG. EQUAL GRADES SHALL BE MAINTAINED TO 50' FROM THE EDGE OF THE MANHOLE.



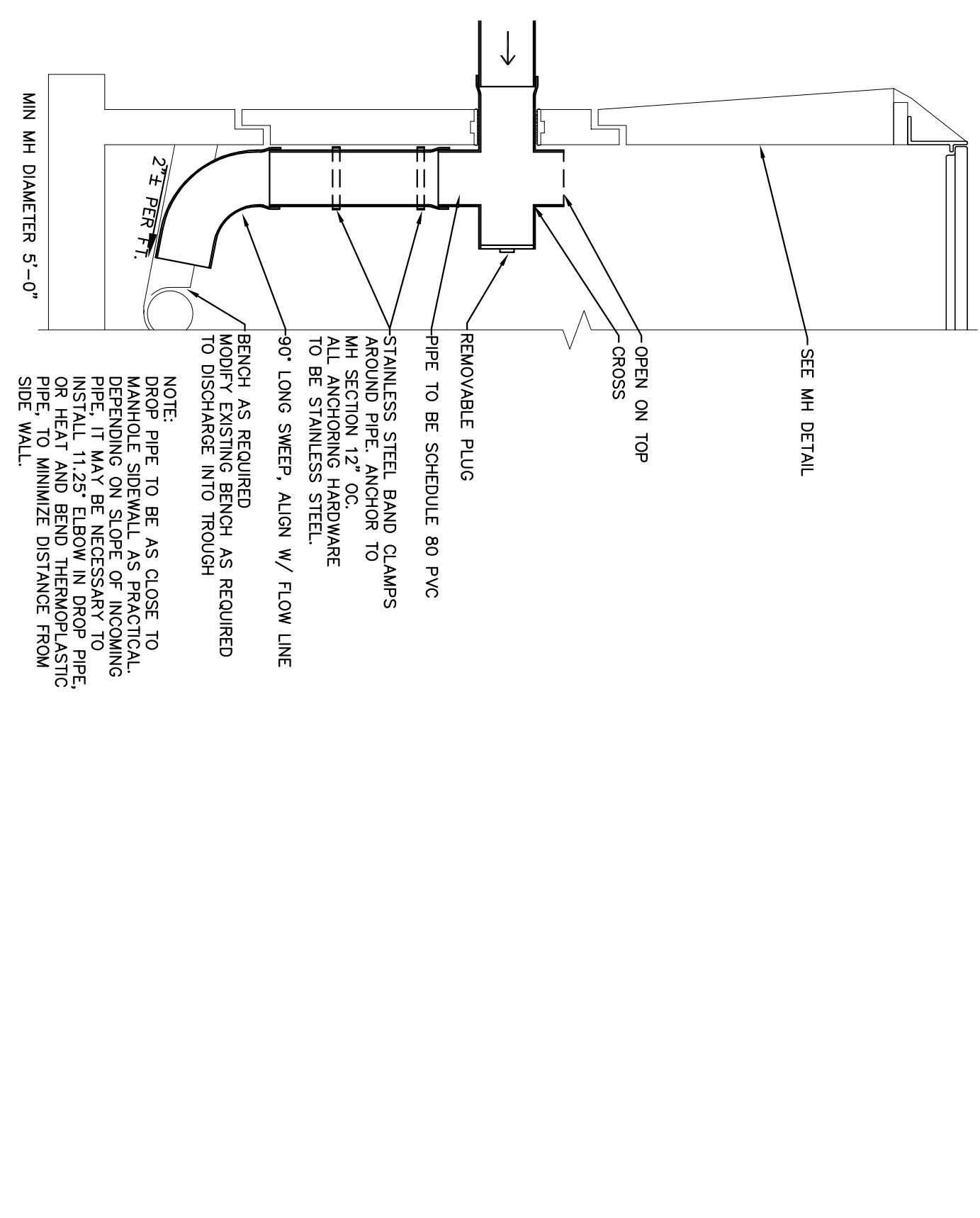
**1 PRECAST MANHOLE (TYP.)**  
SCALE: N.T.S.

**GENERAL PRECAST MANHOLE NOTES:**  
 PRECAST REINFORCED CONCRETE MANHOLE SECTIONS 4000 P.S.I. AT 28 DAYS 5K AIR ENTRAINMENT SHALL BE USED. THE MANHOLE SHALL BE CAST TO THE FINISH GRADE OF THE MANHOLE WITH 30K IMPACT AND 30 P.S.I. SOIL PRESSURE. PRECAST CONCRETE CONE EXTENSION RING TO ADJUST FRAME HEIGHT (HEIGHT AND NUMBER AS REQUIRED) 4" MIN/20" MAX. SOLID CONCRETE BLOCKS MAY BE USED FOR ALL JOINTS. JOINTS SHALL BE COVERED WITH 1/2" GROUT MORTAR INSIDE AND OUT. PRECAST REINFORCED CONCRETE ECCENTRIC CONE SECTION AS MANUF. BY FT. MILLER OR APPROVED EQUAL. MANHOLE DESIGN SPECIFICATION CONFORM TO LATEST ASTM C476 FOR PRECAST REINFORCED CONCRETE BOTTOM SECTION WITH INTEGRAL BASE AS MANUFACTURED BY USHERR CONCRETE PRODUCTS, INC. OR APPROVED EQUAL. ALL STRUCTURES TO BE COVERED WITH BITUMASTIC SEALER.

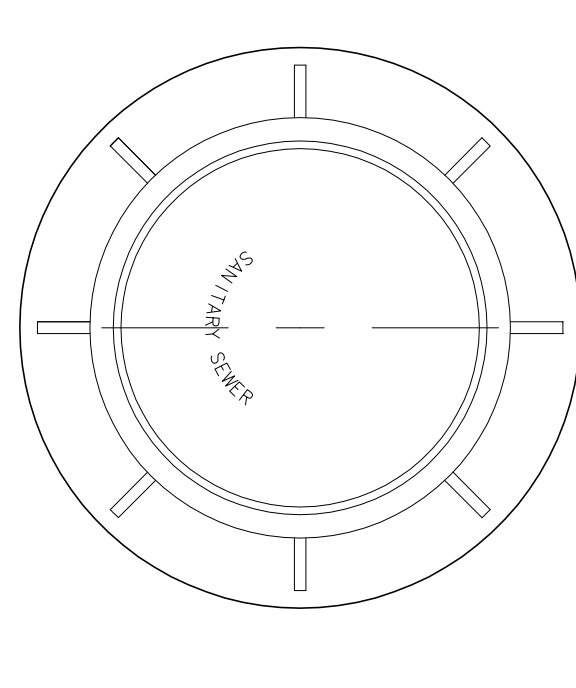


**2 FLUSH MANHOLE 20**  
SCALE: N.T.S.

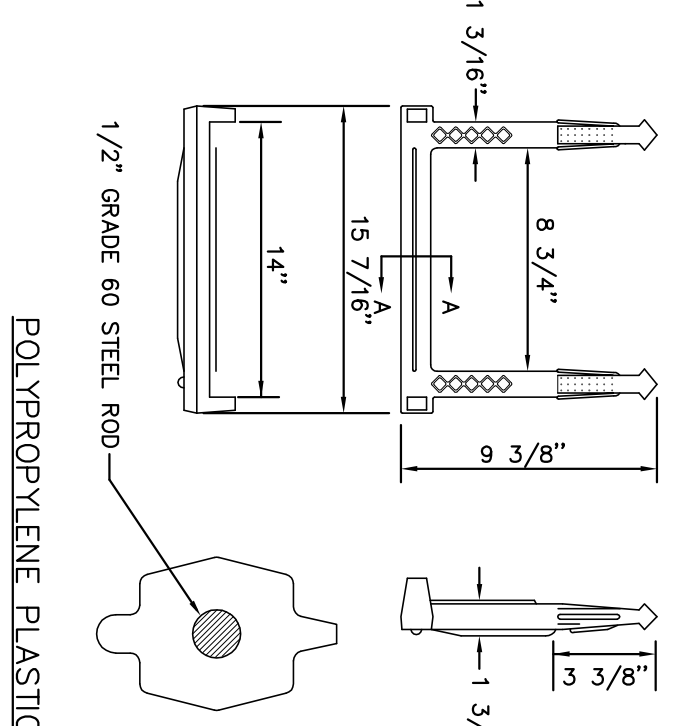
**3 DROP MANHOLE CONNECTION (TYP.)**  
SCALE: N.T.S.



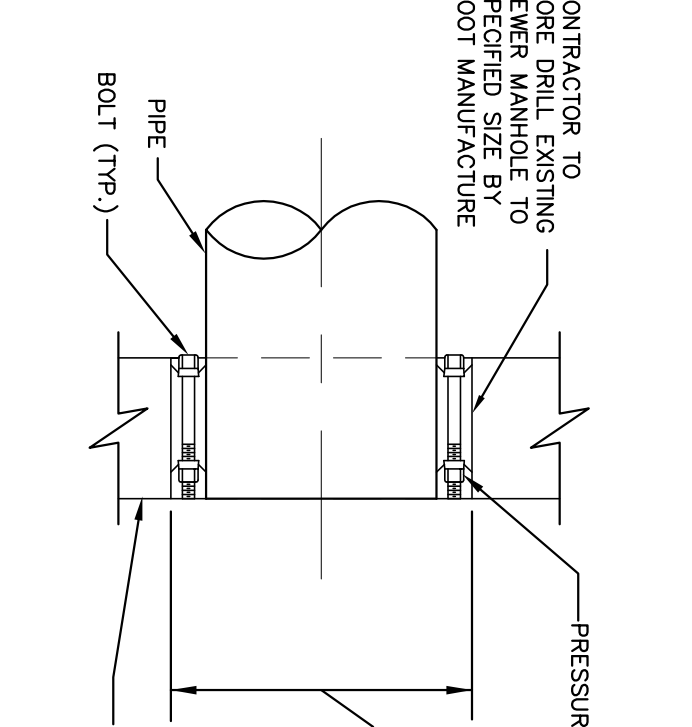
SPRINGS CANNOT BE PRINTED IN THIS SCALE. COVER/SANITARY SEWER/SANITARY MANHOLE LIDS TO BE PRINTED IN RAISED LETTERS, OR EQUAL.



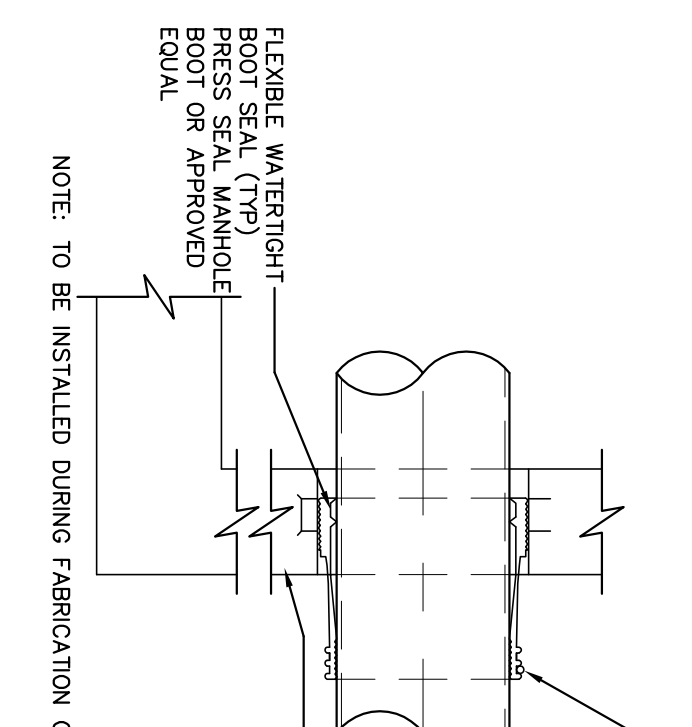
**4 MANHOLE FRAME AND COVER (TYP.)**  
SCALE: N.T.S.



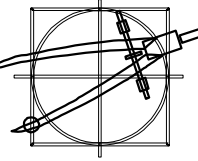
**5 MANHOLE STEP (TYP.)**  
SCALE: N.T.S.



**6 SEWER MAIN CONNECTION TO EXISTING MANHOLE (TYP.)**  
SCALE: N.T.S.



**7 FLEXIBLE WATER-TIGHT BOOT SEAL THROUGH CONCRETE WALLS (TYP.)**  
SCALE: N.T.S.



# KAATERSKILL ASSOCIATES

SURVEYORS, ARCHITECTS AND ENGINEERS

CARO, NY (518)622-9667

REV	DATE	DESCRIPTION	APP.

## REVISIONS

TOWN OF WINDHAM

## SEWAGE COLLECTION DETAILS

### PRELIMINARY SEWAGE COLLECTION PLANS FOR WINDHAM MOUNTAIN SPORTING CLUB

GREENE COUNTY, NY

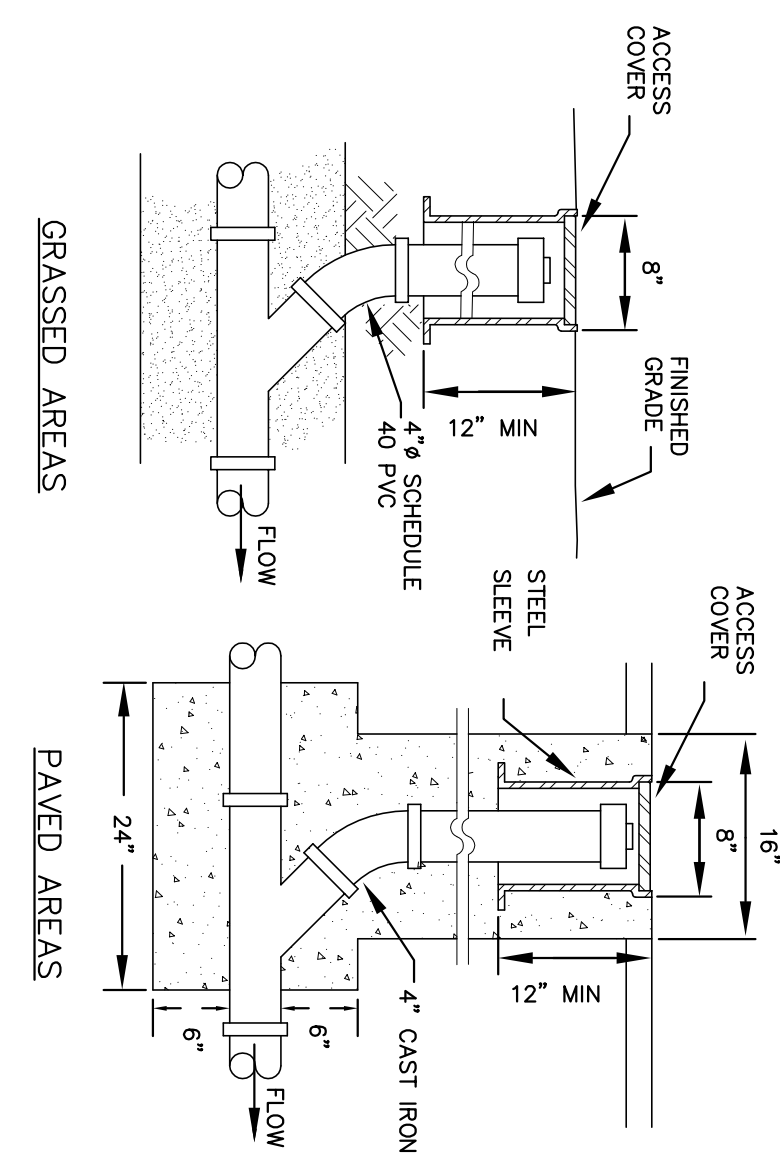
PROJECT: 164207/02  
 DATE: NOV. 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, US, SNP  
 DESIGNED BY: KAS, DOE  
 CHECKED BY: KAS, DOE

DRAWING: SC-27  
 SHEET 27 OF 28

IT IS THE DUTY OF THE ENGINEER TO ASSURE A QUALITATIVELY CORRECT PROJECT FOR SAID PROPERTY TO BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY WORK OF WORK PREPARED BY AN ENGINEER OR ARCHITECT UNDER CONTRACT WITH THE OWNER SHALL BE THE PROPERTY OF THE ENGINEER OR ARCHITECT. THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT FROM THEFT, DAMAGE, LOSS OR UNAUTHORIZED REPRODUCTION. THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT FROM THEFT, DAMAGE, LOSS OR UNAUTHORIZED REPRODUCTION. THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT FROM THEFT, DAMAGE, LOSS OR UNAUTHORIZED REPRODUCTION.

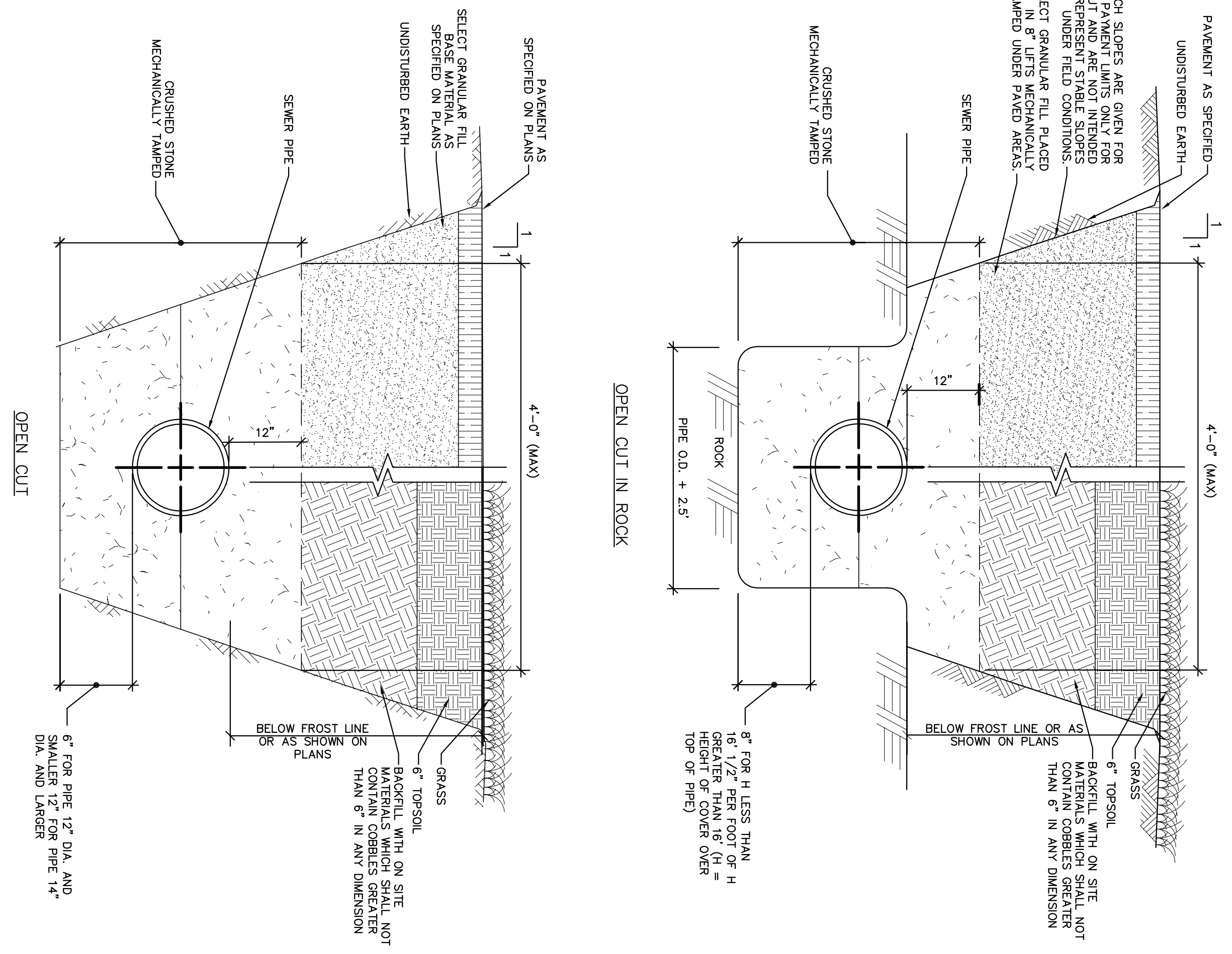
#### 4 CLEANOUT (TYP.)

SCALE: N.T.S.



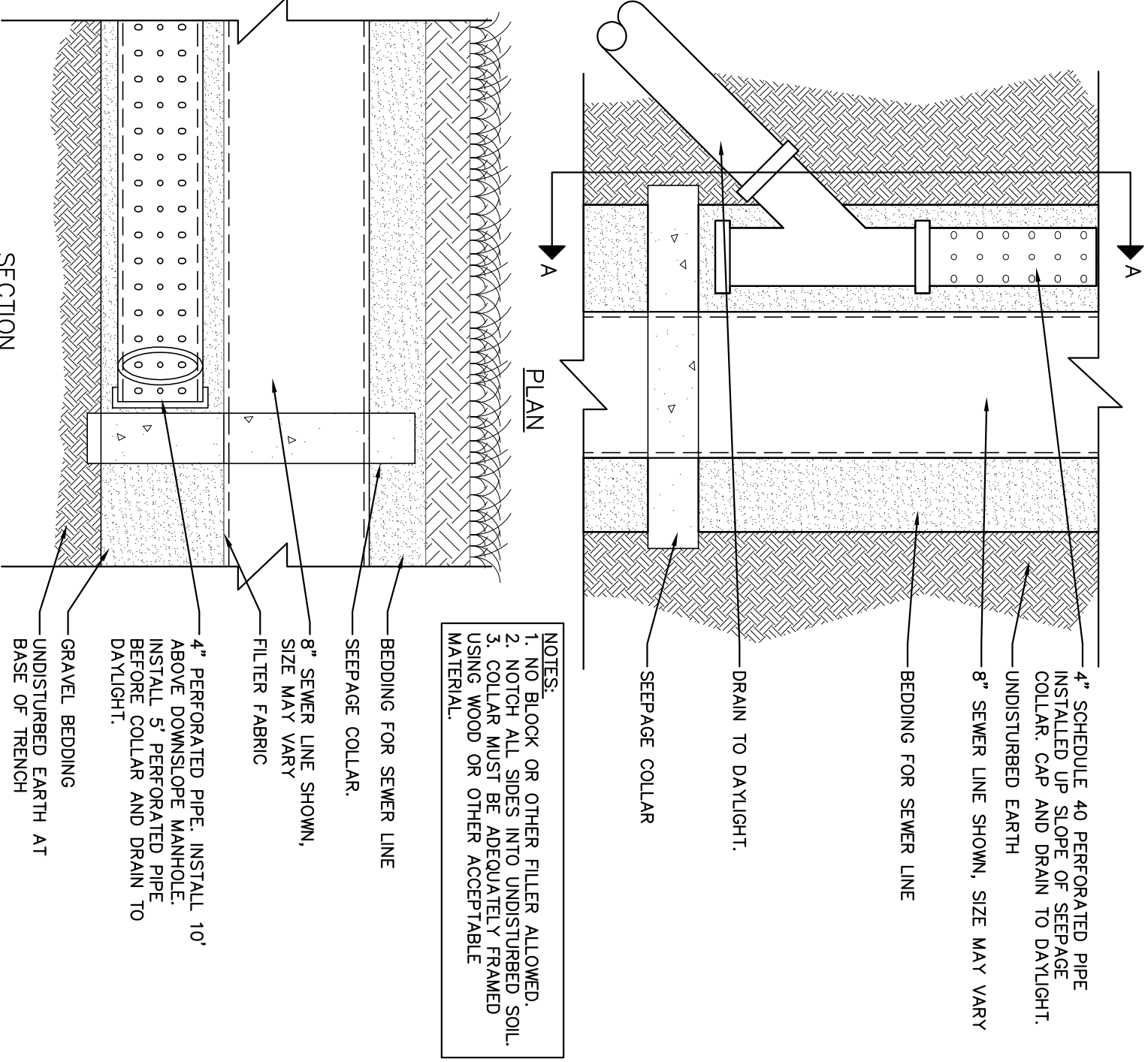
#### 1 TRENCH (TYP.)

SCALE: N.T.S.



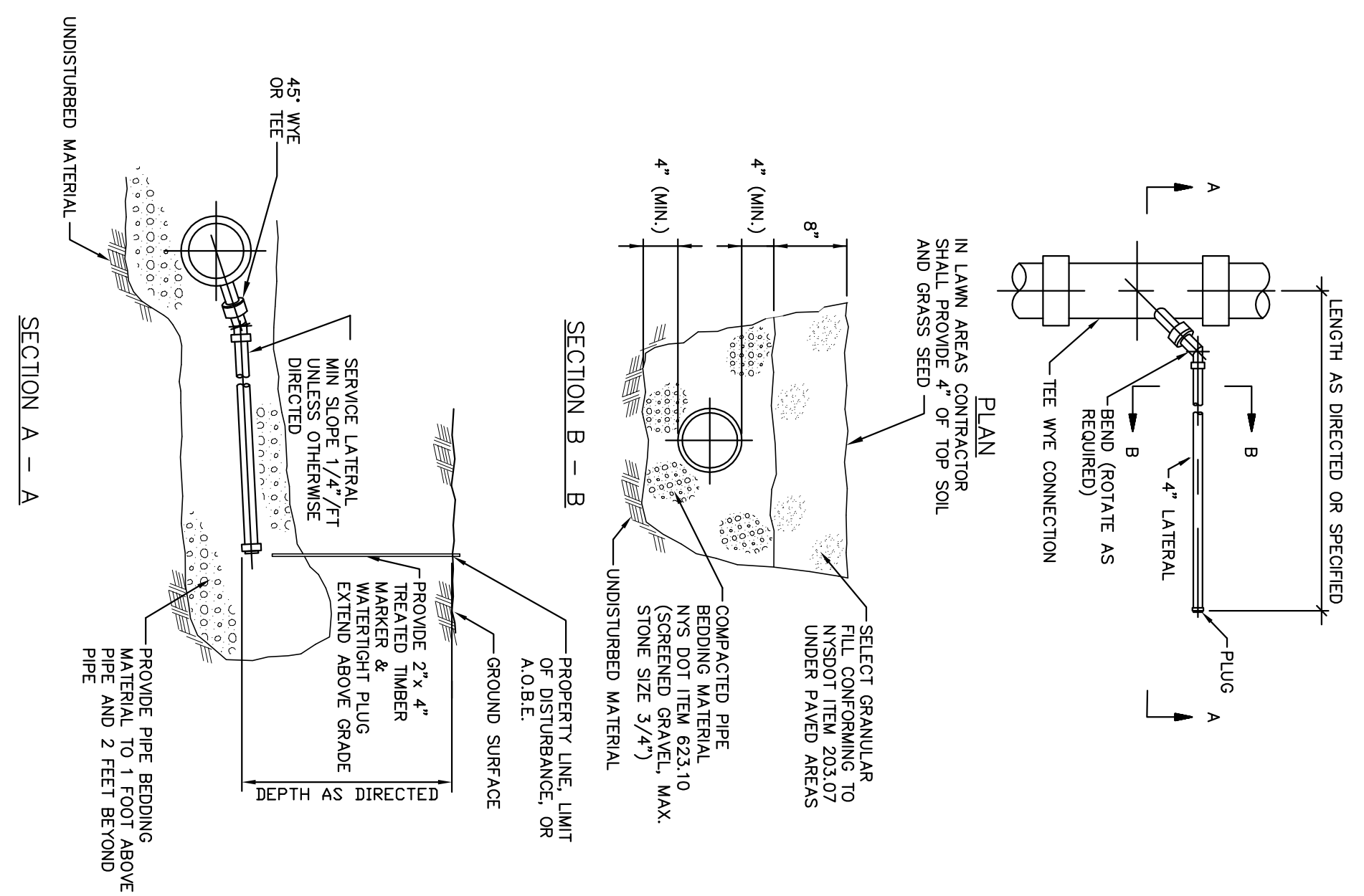
#### 2 ANTI-SEEPAGE COLLAR (TYP.)

SCALE: N.T.S.



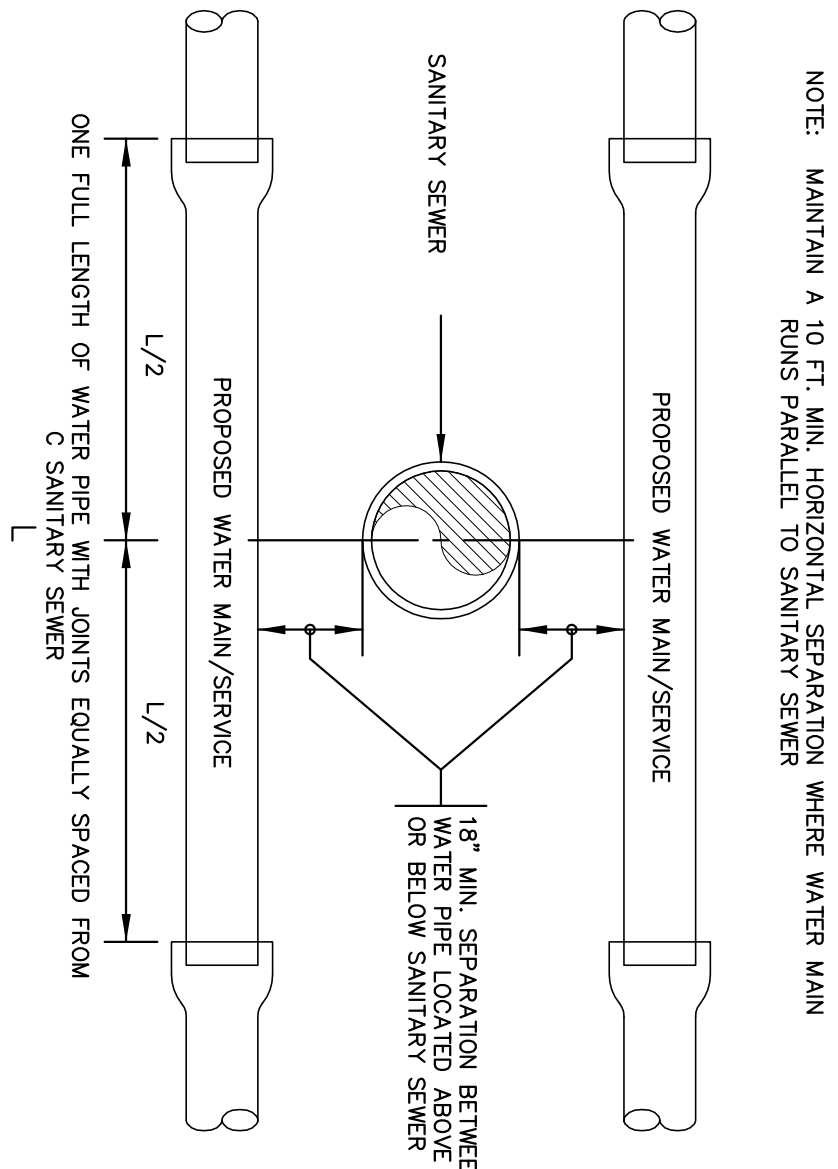
#### 3 SERVICE LATERAL CONNECTION

SCALE: N.T.S.



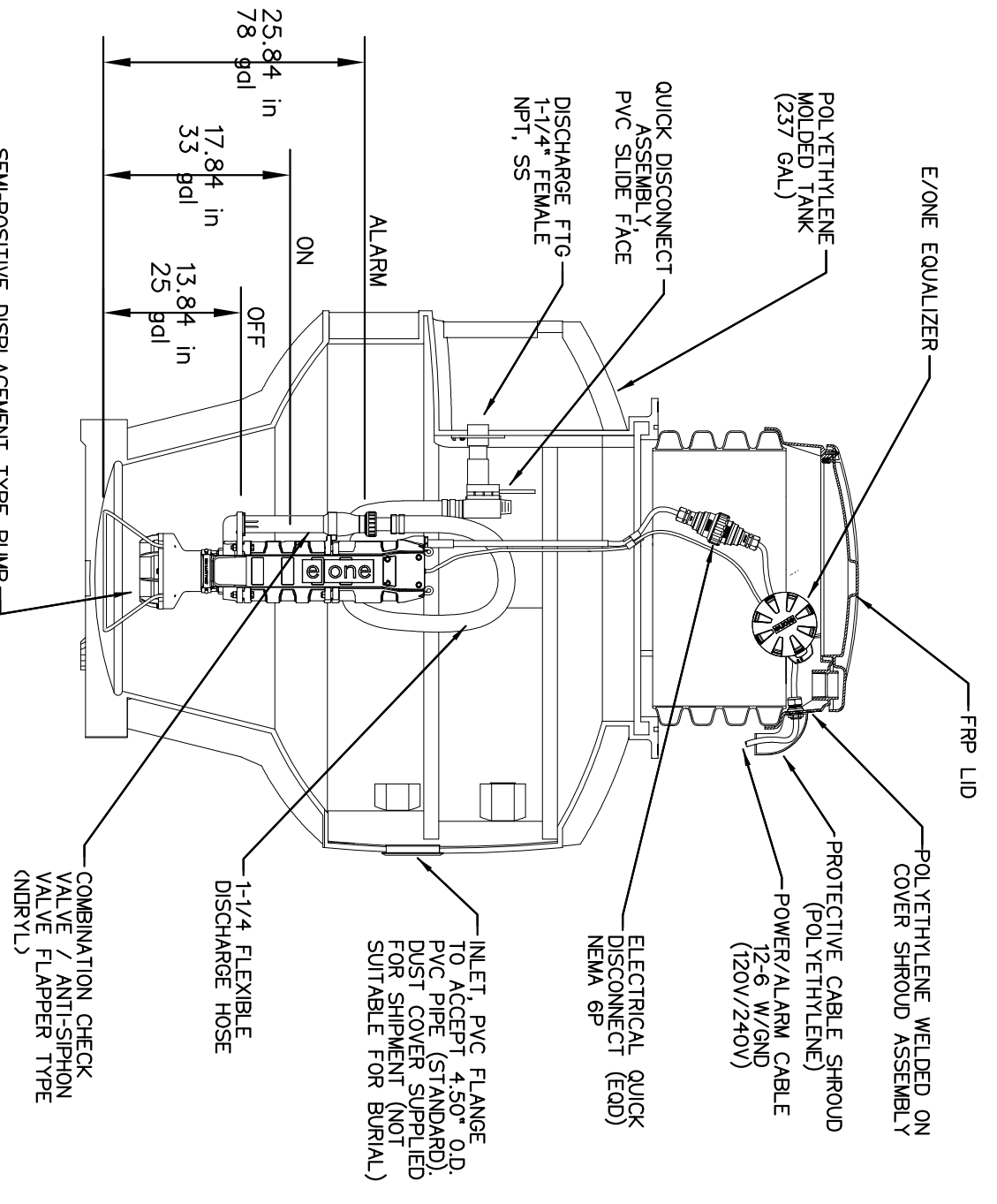
#### 5 WATER / SANITARY SEWER CROSSING (TYP.)

SCALE: N.T.S.



NOTE: MAINTAIN A 10 FT. MIN. HORIZONTAL SEPARATION WHERE WATER MAIN RUNS PARALLEL TO SANITARY SEWER.

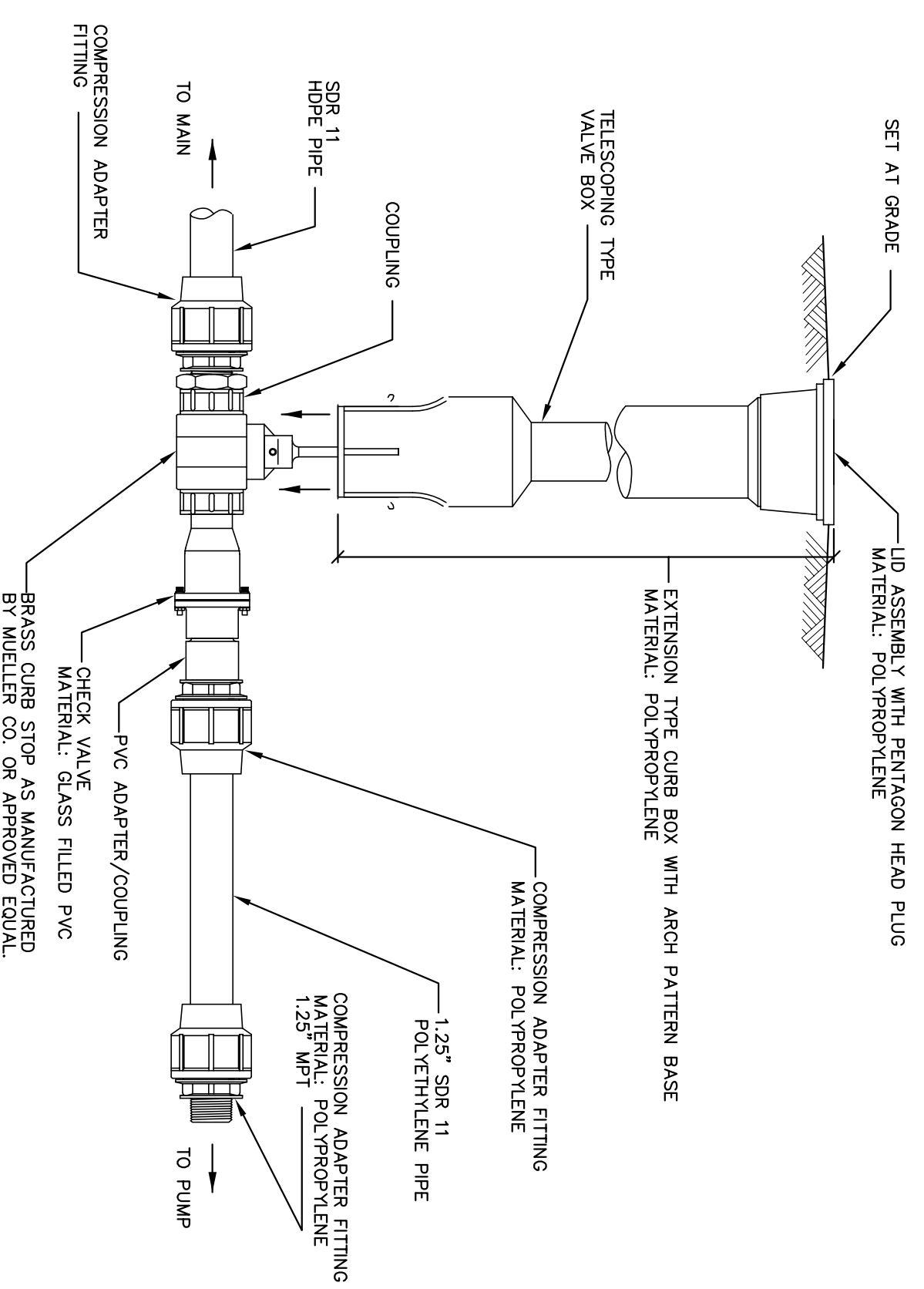
NOTES:  
 CROSSING WATER MAINS SHALL BE LINED TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" (460 mm) BETWEEN THE TOP OF THE WATER MAIN AND THE TOP OF THE SEWER. THE CROSSING SHALL BE MADE BY THE WATER MAIN CONTRACTOR AND SHALL BE MADE AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSING IS REQUIRED FOR THE SEWER TO SANITARY MAIN AND GRADE, THE CROSSING SHALL BE APPROVED BY THE ENGINEER.  
 WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION, THE CROSSING SHALL BE APPROVED BY THE ENGINEER.  
 A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED AT 150 PSI (10.3 bar) TO ASSURE WATER TIGHTNESS.  
 B. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 C. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 D. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 E. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 F. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 G. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 H. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 I. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 J. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 K. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 L. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 M. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 N. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 O. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 P. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 Q. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 R. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 S. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 T. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 U. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 V. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 W. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 X. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 Y. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.  
 Z. THE SEWER SHALL BE MADE OF A MATERIAL THAT IS APPROVED BY THE ENGINEER.



NOTE:  
 102345 WITH A FLAT FIBERGLASS LID IS ALSO AVAILABLE.  
 VOLUME INCREASES 2 GALLONS PER INCH OVER 60" HIGH

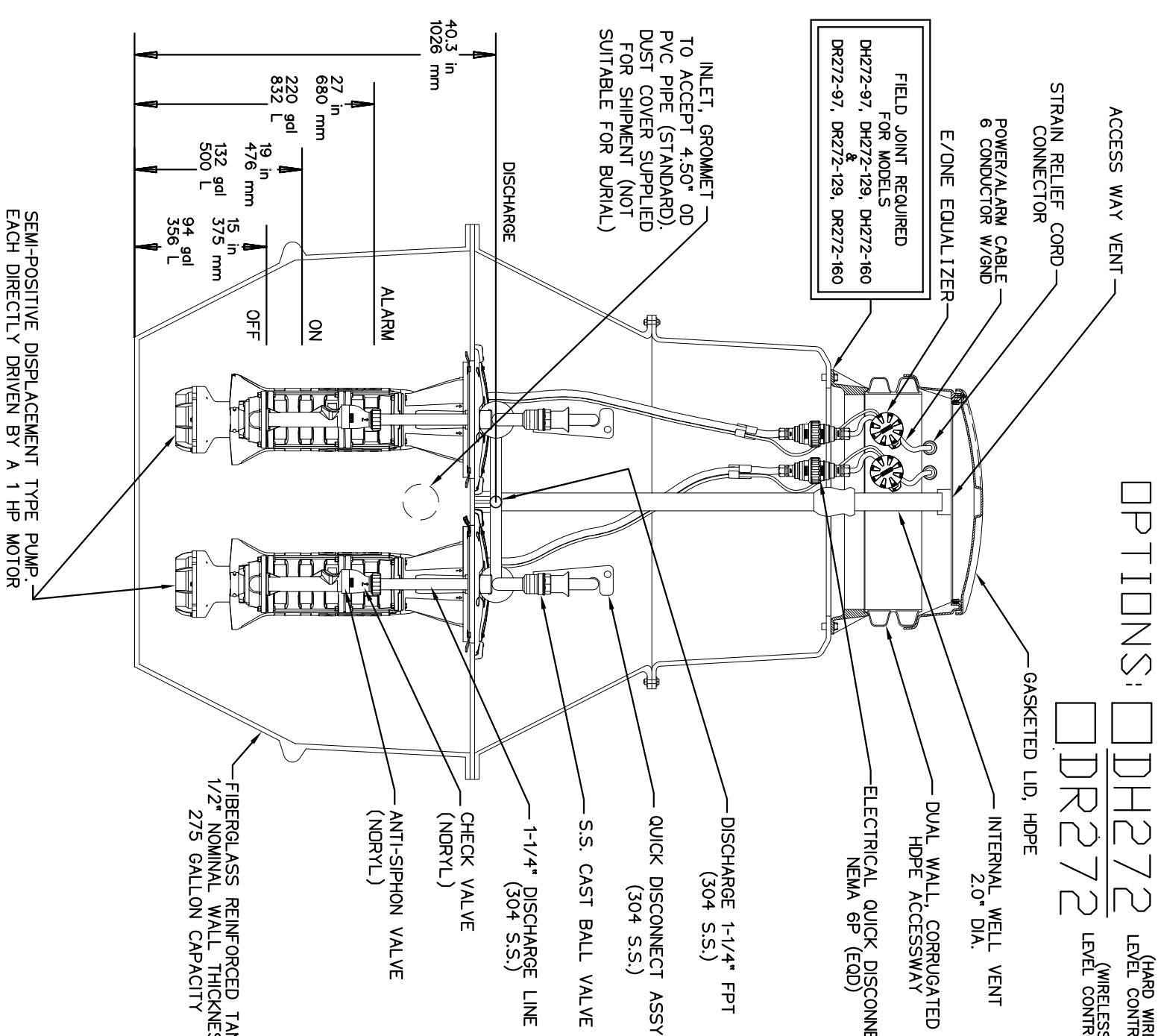
BALLAST REQUIREMENTS:  
 A CONCRETE BALLAST IS REQUIRED.  
 SPECIFIC CONCRETE DIMENSIONS ARE REQUIRED.  
 SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.  
 BY ENVIRONMENT ONE (MODEL 2010), OR APPROVED EQUAL.

1 SIMPLEX GRINDER PUMP UNIT DETAIL  
 FOR INDIVIDUAL HOMES  
 SCALE: N.T.S.



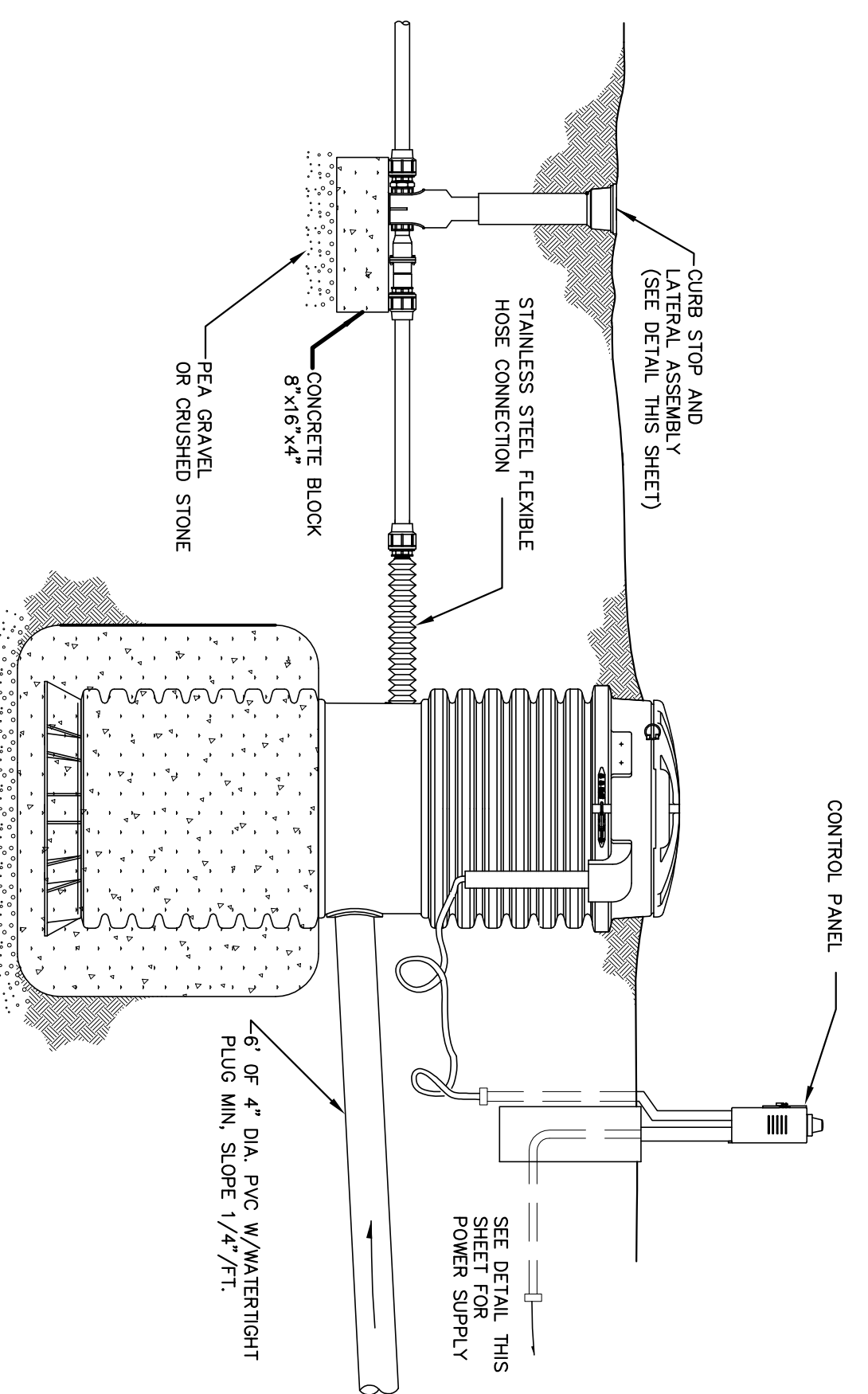
NOTE:  
 1. VALVE BOX WITH THREADED EXTENSION WILL NOT BE ACCEPTED.  
 LEAVE SUFFICIENT CABLE FOR CONNECTION BY THE INSTALLER.  
 CHECK FOR ALL COMPANY REQUIREMENTS.

4 GRINDER PUMP LATERAL AND CURB STOP ASSEMBLY DETAIL  
 SCALE: N.T.S.



CONCRETE BALLAST MAY BE REQUIRED.  
 SEE INSTALLATION INSTRUCTIONS FOR DETAILS.  
 BY ENVIRONMENT ONE (MODEL DH272), OR APPROVED EQUAL.

2 SIMPLEX GRINDER PUMP UNIT DETAIL  
 FOR MULTIPLE HOMES  
 SCALE: N.T.S.



5 GRINDER PUMP LATERAL INSTALLATION DETAIL  
 SCALE: N.T.S.

OPTIONS: DH272 (WELL VENT)  
 DFR272 (LID CONTROL)

NOTES:

1. GRINDER PUMP UNITS ARE TO BE FURNISHED AND INSTALLED IF GRAVITY FLOW TO MAIN IS NOT POSSIBLE.
2. 1" DIAMETER ELECTRICAL CONDUIT SHALL BE FURNISHED AND INSTALLED.
3. POWER AND CONTROL WIRING BETWEEN CONTROL PANEL AND PUMP WILL BE FURNISHED AND INSTALLED.
4. 240 VOLT, SINGLE PHASE, 60 HERTZ POWER FEEDER TO EACH GRINDER PUMP UNIT SHALL BE PROVIDED.
5. SIX-FEET OF 4" DIA. PVC WITH WATER-TIGHT PLUG FOR EACH INLET HUB CONNECTION ON THE GRINDER PUMP SHALL BE FURNISHED AND INSTALLED.
6. SIX-FEET OF 4" DIA. PVC WITH WATER-TIGHT PLUG FOR EACH INLET HUB CONNECTION ON THE GRINDER PUMP SHALL REQUIRE A CONCRETE ANCHOR OF 1.600 IN (4.05 CU FT) SHALL BE FURNISHED AND INSTALLED.
7. MINIMUM 60 GALLONS OF STORAGE IS REQUIRED ABOVE THE ALARM.
8. GRINDER PUMP INSTALLATION SHALL BE IN ACCORDANCE WITH THE NYC DE DESIGN (1999 OR LATER VERSION).
9. GRINDER PUMP INSTALLATION SHALL BE IN ACCORDANCE WITH THE NYC DE DESIGN (1999 OR LATER VERSION).
10. GRINDER PUMP UNITS SHALL BE INSTALLED OUTSIDE A MINIMUM OF 10' FROM THE BUILDING, AND SHALL BE READILY ACCESSIBLE FOR MAINTENANCE PURPOSES.
11. THE GRINDER PUMP EQUIPMENT SHALL COMPLY WITH NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL INSPECTION AGENCIES REQUIREMENTS.
12. GRINDER PUMP PACKAGES SHALL INCLUDE A HOORUP CONNECTION FOR A PORTABLE PUMP.
13. SPECIFIC CONCRETE TO BE USED (CONCRETE BRAND, WEIGHT, GRADE, etc.) SHALL BE PROVIDED BY THE ARCHITECT/ENGINEER.  
 (28 INDIVIDUAL LOTS, ONE TOWNHOUSE CLUSTER)  
 (6 INDIVIDUAL LOTS, ONE TOWNHOUSE CLUSTER)
14. BALLAST SHALL BE FURNISHED BY THE ARCHITECT/ENGINEER.

KAATERSKILL ASSOCIATES

SURVEYORS, ARCHITECTS AND ENGINEERS  
 CARO, NY (519)622-9667

REV.	DATE	DESCRIPTION

PRELIMINARY SEWAGE COLLECTION PLANS  
 FOR  
**WINDHAM MOUNTAIN SPORTING CLUB**  
 GREENE COUNTY, NY

PROJECT: 164207/02  
 DATE: NOV. 2011  
 SCALE: AS NOTED  
 DRAWN BY: KAS, LJS, SNP  
 CHECKED BY: KAS, DOE

DRAWING:  
**SC-28**  
 SHEET 28 OF 28

IT IS THE DUTY OF THIS ENGINEER TO ASSURE A GEOGRAPHICALLY CORRECT PROJECT FOR EACH PLANNED CONSTRUCTION PROJECT. THE ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECT BOUNDARIES, AREA, AND VOLUME OF THE PROJECT. THE ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECT BOUNDARIES, AREA, AND VOLUME OF THE PROJECT. THE ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECT BOUNDARIES, AREA, AND VOLUME OF THE PROJECT. THE ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECT BOUNDARIES, AREA, AND VOLUME OF THE PROJECT.