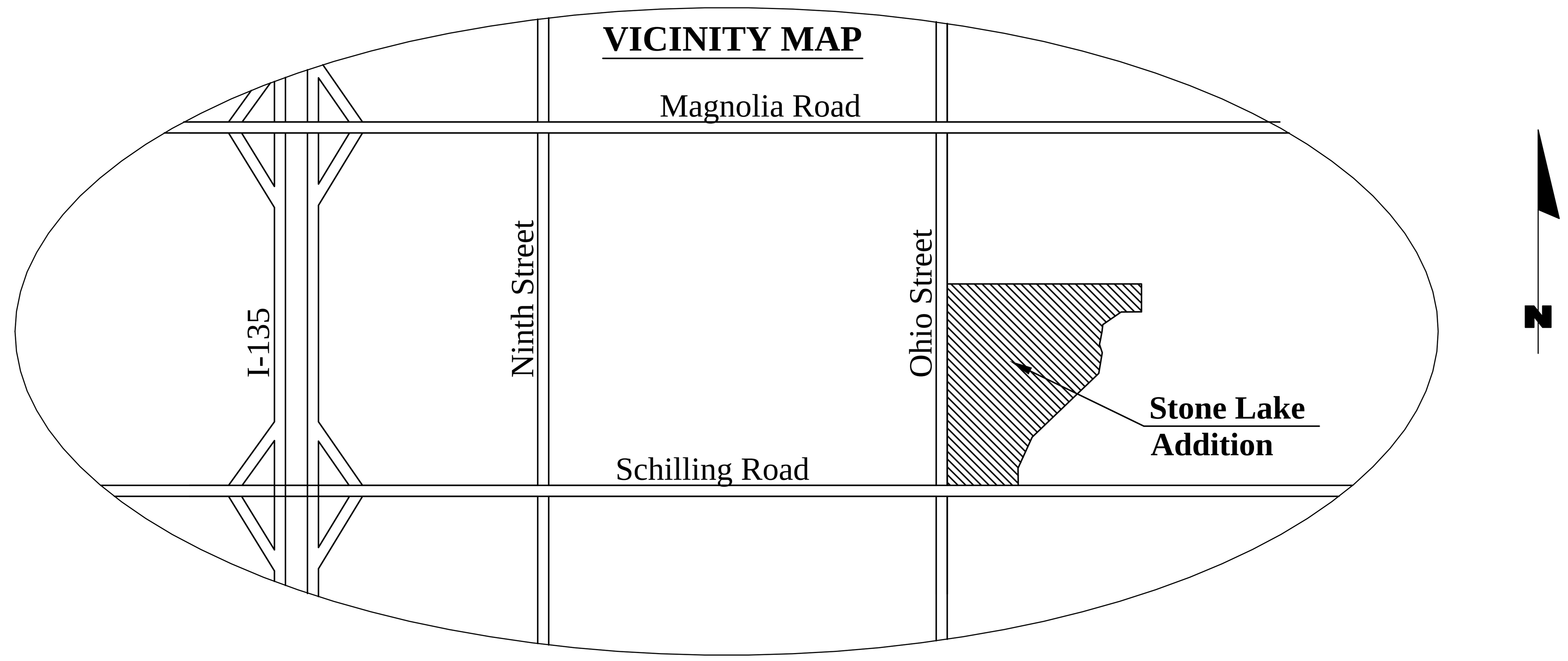
STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

INDEX to SHEETS



GENERAL NOTES:

1. All construction methods and materials used in the construction of the improvements covered by these plans shall be in accordance with the Standard Technical Specifications and addendum's to the (STS) on file in the office of the City Engineer, City of Salina, Kansas.
2. The location of all underground utilities may vary from what is indicated in these plans. It shall be the contractor's responsibility to coordinate with the utility owner to locate and flag all underground utilities whether indicated or not. No excavation shall be permitted in the area of underground utilities until all such utilities have been located and identified to the satisfaction of all parties. Any damage to the utility shall be repaired or replaced by the utility owner at the contractor's expense.
3. All radii and dimensions are measured to back of curb unless otherwise noted on plan.
4. All property pins disturbed by construction shall be replaced by a licensed engineer or land surveyor. This work shall be subsidiary to other items of the contract.
5. Full Depth sawcuts shall be used to remove a portion of pavement or curb and gutter. All sawcuts shall be full depth and shall be subsidiary to other bid items.
6. All items to be removed including trees, pavement, sidewalk, curb & gutter and other structures shall be subsidiary to other bid items unless otherwise noted on the plans, and listed as a pay item on the bid form.
7. All disturbed area shall be seeded and fertilized in accordance with the plans and specifications.
8. A minimum of one (1) foot of cover shall be placed over storm sewer pipes. any fill required to meet this requirement shall be subsidiary to other bid items.
9. Station and offset are referenced to back of curb at the midpoint of the inlet for curb inlets, to center of manholes and center of inlet for area inlets.
10. Any work which requires traffic control shall be in accordance with the City's standard details.
11. Excess materials shall be wasted on site at a location identified by the Owner.

KANSAS ONE-CALL:
1-800-DIG-SAFE
(1-800-344-7233)

ONE CALL

Protect yourselves and your property against underground utility damage and liability.

Find out where the underground utility lines might be buried before you dig.

Anyone digging in Kansas must call before digging. The person who is doing the work is responsible for calling KOC. If the owner contracts with a professional excavator to do the excavation then the professional excavator is responsible for calling KOC.

You (the digger) will need to provide information about the work site when you call. This is a FREE service.

CALL BEFORE YOU DIG
IT'S THE LAW.
[Chapter 66.—PUBLIC UTILITIES
Article 18.—UTILITY DAMAGE PREVENTION]

Utility	Owner	Address	Phone No.
Gas	Kansas Gas Service Debra Reinbold	1001 Edison Place Salina, Kansas 67401	(785) 822–3567
Power	Westar Energy	1001 Edison Place Salina, Kansas 67401	(785) 822–3560
Telephone	AT&T Mike Pritchett	137 South 7th Salina, Kansas 67401	(785) 826–1002
Water	City of Salina	300 W. Ash Salina, Kansas 67401	(785) 826–7305
Sewer	City of Salina WTP	401 Fifth Street Salina, Kansas 67401	(785) 826–7305

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

CITY OF SALINA, KANSAS
DEPARTMENT OF PUBLIC WORKS – ENGINEERING DIVISION
RELEASED FOR CONSTRUCTION

CITY ENGINEER DATE

ATTEST:

CITY CLERK DATE

PLANS PREPARED BY:
CFS Cook, Flatt & Strobel ENGINEERS, P.A.

SEAL: SAMUEL D. MALINOWSKY LICENSED 12596 KANSAS PROFESSIONAL ENGINEER 2-8-12

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

SHEET TITLE: Title Sheet

PROJECT PHASE: PHASE I

SHEET NUMBER: 1

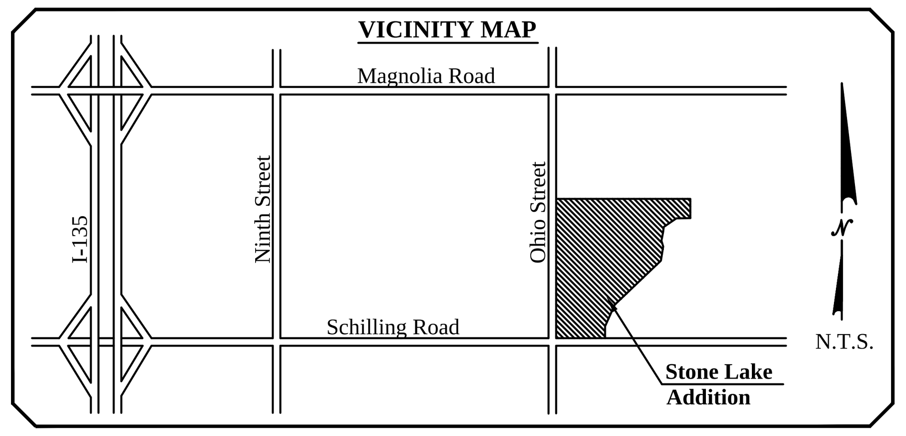
FINAL

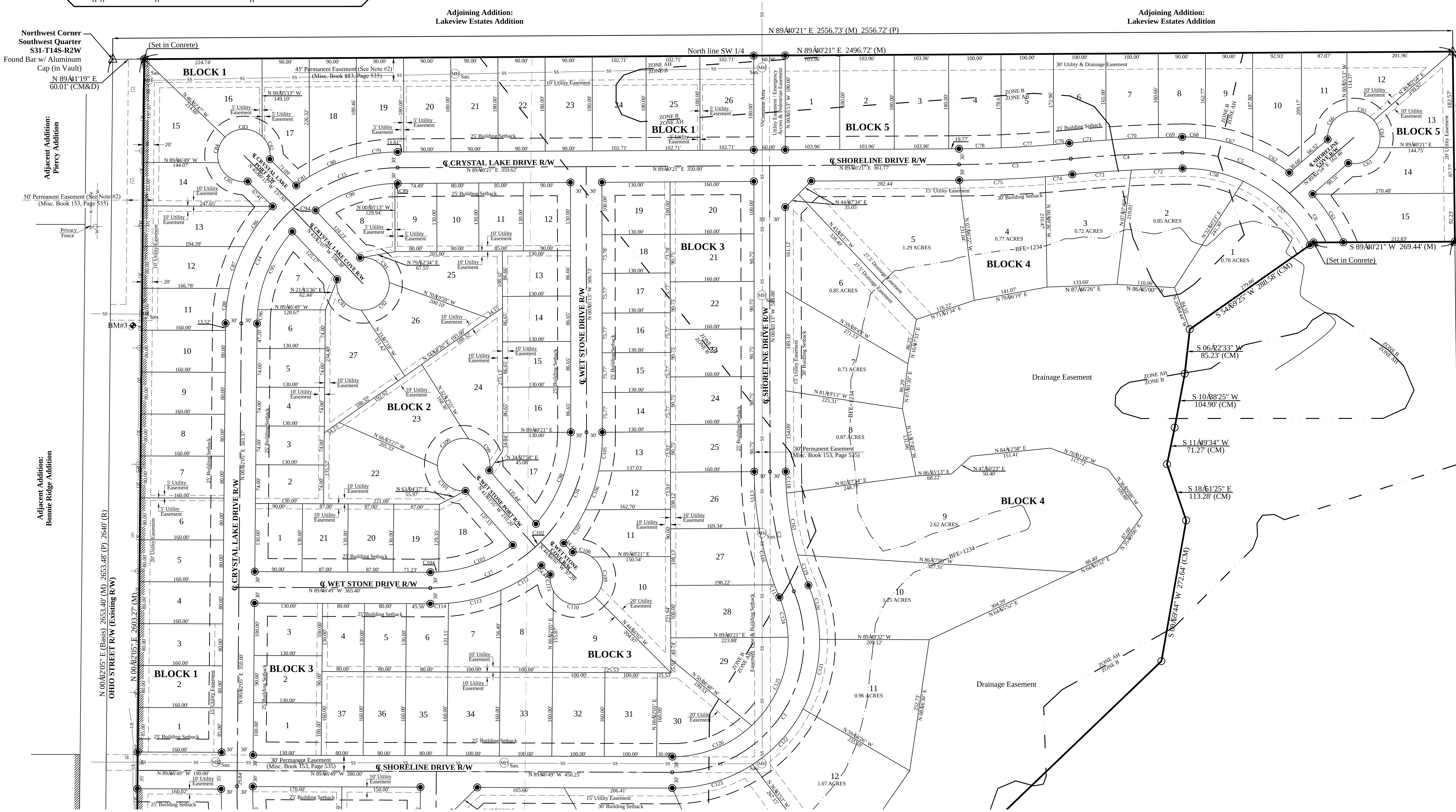
The Final Plat of

Stone Lake Addition

to the City of Salina, Saline County, Kansas

A parcel of land located in the Southwest Quarter of Section 31, Township 14 South, Range 2 West of the 6th Principal Meridian





LEGEND

- Section Corner
- Set 1/2" Rebar w/ "Landmark CLS-116" cap
- PC or PT of Curve
- Addition Corner Not Set (Located in Lake)
- M Measured Distance
- P Platted Distance
- D Described Distance
- R Record Distance (from GLO Notes)
- Lot Line
- Addition Boundary Line
- Easement Line
- Building Setback Line
- BFE=1234 Base Flood Elevation Contour
- Restricted Access

PLAT NOTES

1) Basis of Bearings: Assumed N 00Á82'05" E along the West line of the Southwest Quarter of S31-T14S-R2W.
2) Monuments found have an unknown origin unless noted otherwise.
3) Flood Information: The majority of this property is located in Flood Zone B and a small portion of this property is located in Flood Zone AH. According to the Flood Insurance Rate Map for the City of Salina, Saline County, Kansas. Map Number: 200316 0060 B Effective Date: 02/05/1986 **The Base Flood Elevation is 1234.0**
4) All adjoining ground is unplatted unless noted otherwise.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	250.00'	491.68'	416.18'	S 33Á52'43" W
C2	600.00'	234.33'	232.85'	N 11Á16'32" W
C3	2340.99'	213.39'	213.32'	S 87Á03'40" W
C4	2483.06'	213.27'	213.20'	N 86Á54'37" E
C5	300.00'	223.63'	218.49'	S 69Á16'25" E
C6	300.00'	117.57'	116.82'	S 36Á41'29" E
C8	1000.00'	302.61'	301.46'	S 09Á17'54" E
C45	970.00'	83.68'	83.65'	S 23Á11'31" E
C51	970.00'	42.24'	42.24'	N 01Á52'35" W
C55	1030.00'	33.76'	33.76'	N 01Á34'04" W
C57	270.00'	179.38'	176.10'	S 46Á20'13" E
C58	270.00'	119.03'	118.07'	S 77Á59'59" E
C61	330.00'	109.53'	109.03'	S 32Á33'08" E
C62	330.00'	81.12'	80.91'	S 59Á35'57" E
C63	50.00'	69.04'	63.69'	S 62Á37'07" W
C64	50.00'	55.86'	53.00'	S 08Á56'47" E
C65	50.00'	55.99'	53.11'	S 73Á01'46" E
C66	50.00'	68.92'	63.59'	N 35Á24'20" E
C67	330.00'	93.63'	93.31'	S 74Á46'10" E
C68	330.00'	44.53'	44.50'	S 86Á45'48" E

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C69	2513.06'	45.59'	45.59'	N 88Á51'05" E
C70	2513.06'	100.12'	100.11'	N 87Á11'25" E
C71	2513.06'	70.14'	70.14'	N 85Á14'58" E
C72	2353.06'	98.03'	98.02'	N 88Á16'56" E
C73	2353.06'	112.67'	112.66'	N 85Á43'01" E
C74	2370.99'	51.66'	51.66	S 85Á04'26" W
C75	2370.99'	164.47'	164.44'	S 87Á41'07" W
C76	2310.99'	30.21'	30.21'	S 84Á49'28" W
C77	2310.99'	100.19'	100.18'	S 86Á26'27" W
C78	2310.99'	80.25'	80.25'	S 88Á40'40" W
C79	330.00'	79.19'	79.00'	N 82Á47'48" E
C80	330.00'	97.76'	97.40'	N 67Á26'10" E
C81	330.00'	30.06'	30.05'	N 56Á20'23" E
C82	50.00'	47.33'	45.58'	S 18Á59'26" E
C83	50.00'	78.21'	70.48'	N 89Á04'46" E
C84	50.00'	52.58'	50.19'	N 14Á08'28" E
C85	50.00'	71.69'	65.70'	N 57Á03'33" W
C86	330.00'	94.19'	93.87'	N 35Á06'06" E
C87	330.00'	85.01'	84.78'	N 19Á32'42" E
C88	330.00'	66.98'	66.86'	N 06Á21'02" E

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C89	270.00'	5.51'	5.51'	N 89Á05'10" E
C90	270.00'	162.22'	159.79'	N 71Á17'23" E
C91	50.00'	81.41'	72.71'	S 49Á41'23" E
C92	50.00'	84.91'	75.07'	S 45Á36'12" W
C93	50.00'	83.49'	74.12'	N 37Á54'32" W
C94	300.00'	6.48'	6.48'	N 48Á13'16" E
C95	270.00'	165.32'	162.75'	N 23Á46'33" E
C96	270.00'	26.85'	26.84'	N 03Á23'08" E
C97	270.00'	34.98'	34.96'	S 04Á18'06" W
C98	270.00'	191.01'	187.05'	S 20Á51'24" W
C99	50.00'	79.58'	71.44'	S 33Á19'30" E
C100	50.00'	89.66'	78.12'	N 49Á42'33" E
C101	50.00'	80.57'	72.13'	N 47Á49'31" W
C102	300.00'	13.56'	13.55'	S 46Á21'39" W
C103	270.00'	152.24'	150.24'	S 70Á02'22" W
C104	270.00'	15.78'	15.78'	S 87Á52'04" W
C105	320.00'	74.46'	74.29'	S 05Á20'25" W
C106	320.00'	78.56'	78.36'	S 19Á02'22" W
C107	320.00'	76.04'	75.86'	S 32Á52'47" W
C108	50.00'	38.23'	37.30'	S 76Á09'40" E

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C109	50.00'	86.68'	76.22'	S 04Á35'46" E
C110	50.00'	92.99'	80.16'	N 81Á39'18" W
C111	50.00'	31.92'	31.38'	N 10Á05'24" W
C112	320.00'	90.82'	90.51'	S 58Á34'34" W
C113	320.00'	103.76'	103.31'	S 75Á59'44" W
C114	320.00'	34.48'	34.46'	S 88Á22'18" W
C115	630.00'	108.62'	108.48'	N 05Á01'29" W
C116	630.00'	111.95'	111.80'	N 15Á03'17" W
C117	630.00'	25.48'	25.48'	N 21Á18'15" W
C118	570.00'	41.11'	41.10'	N 02Á09'07" W
C119	570.00'	61.30'	61.27'	N 19Á22'57" W
C120	280.00'	105.93'	105.30'	S 11Á37'31" E
C121	280.00'	137.93'	136.54'	S 13Á19'28" W
C122	280.00'	144.88'	143.27'	S 42Á15'35" W
C123	280.00'	161.94'	159.69'	S 73Á39'06" W
C124	220.00'	78.31'	77.89'	S 12Á15'59" E
C125	220.00'	188.11'	182.43'	S 22Á25'31" W
C126	220.00'	166.26'	162.33'	S 68Á34'13" W
C161	570.00'	120.21'	119.99'	N 10Á15'36" W

Landmark SURVEYING & MAPPING INC.
Member Kansas Society of Land Surveyors
Office: (785) 263-2625 Fax: (785) 263-1580
301 North Broadway, P.O. Box 97
Abilene, Kansas 67410

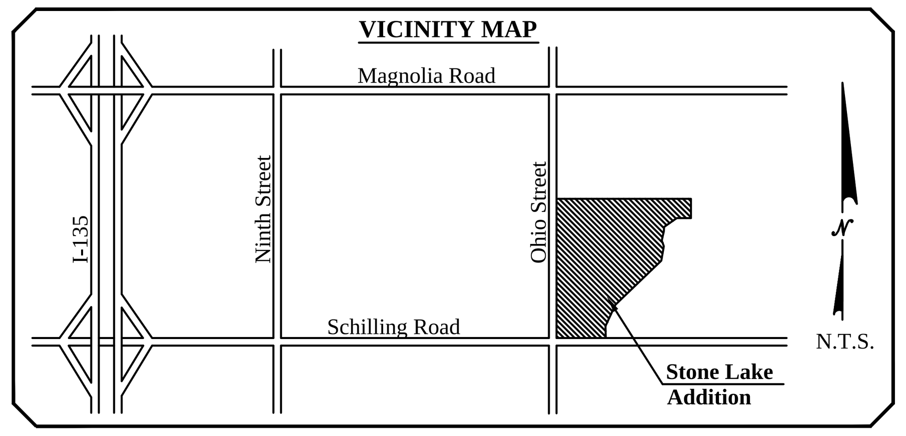
Date of Plot: 11/12/10		Project #: 10-5224
Drawn By:	JPJ	Client: Alsop Sand
Checked By:	TR	Sheet 1 of 3

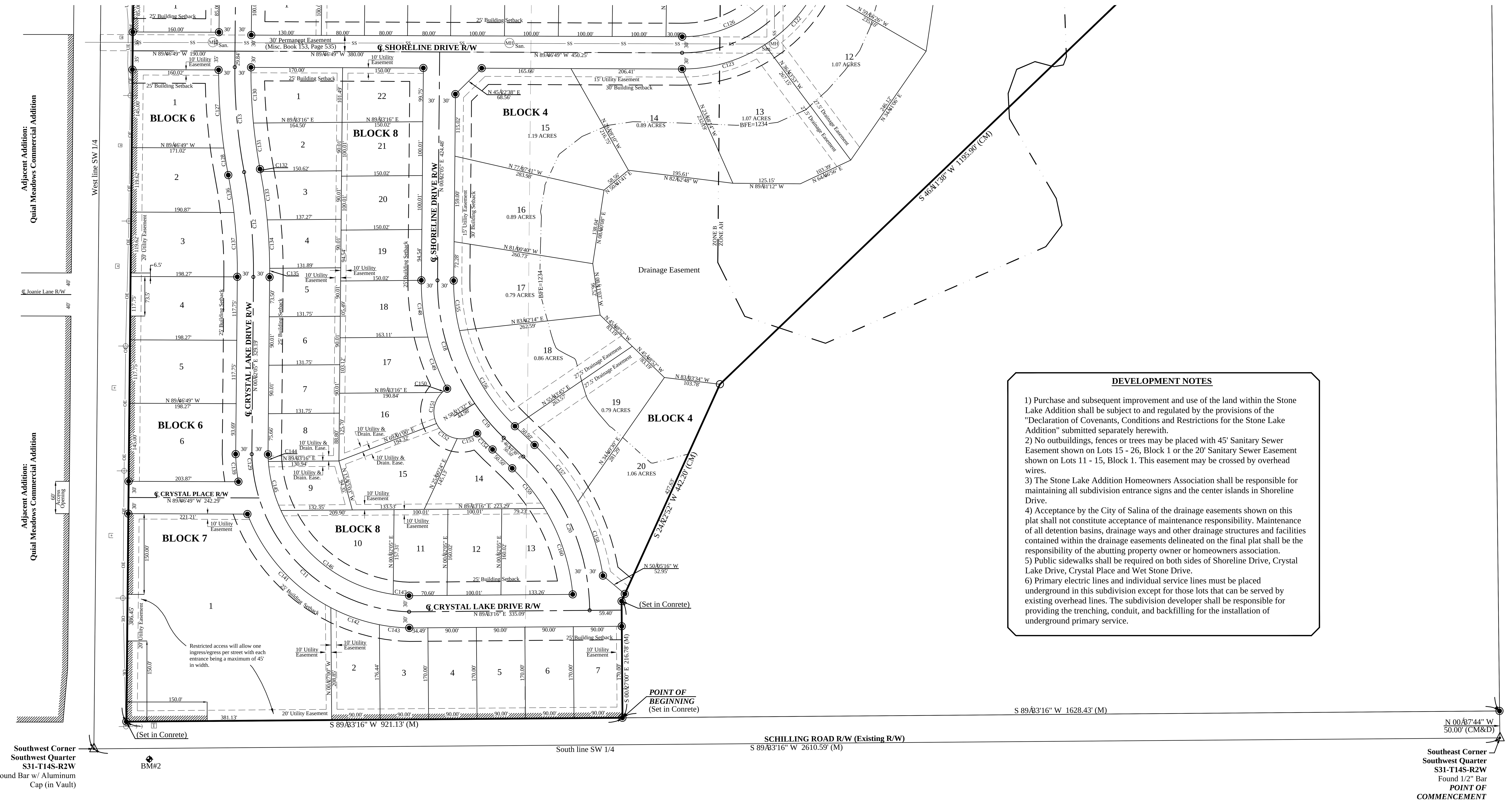
The Final Plat of

Stone Lake Addition

to the City of Salina, Saline County, Kansas

A parcel of land located in the Southwest Quarter of Section 31, Township 14 South, Range 2 West of the 6th Principal Meridian





LEGEND

- Section Corner
- Set 1/2" Rebar w/ "Landmark CLS-116" cap
- PC or PT of Curve
- Addition Corner Not Set (Located in Lake)
- M Measured Distance
- P Platted Distance
- D Described Distance
- R Record Distance (from GLO Notes)
- Lot Line
- Addition Boundary Line
- Easement Line
- Building Setback Line
- BFE=1234 Base Flood Elevation Contour
- Restricted Access

DEVELOPMENT NOTES

1) Purchase and subsequent improvement and use of the land within the Stone Lake Addition shall be subject to and regulated by the provisions of the "Declaration of Covenants, Conditions and Restrictions for the Stone Lake Addition" submitted separately herewith.
2) No outbuildings, fences or trees may be placed with 45' Sanitary Sewer Easement shown on Lots 15 - 26, Block 1 or the 20' Sanitary Sewer Easement shown on Lots 11 - 15, Block 1. This easement may be crossed by overhead wires.
3) The Stone Lake Addition Homeowners Association shall be responsible for maintaining all subdivision entrance signs and the center islands in Shoreline Drive.
4) Acceptance by the City of Salina of the drainage easements shown on this plat shall not constitute acceptance of maintenance responsibility. Maintenance of all detention basins, drainage ways and other drainage structures and facilities contained within the drainage easements delineated on the final plat shall be the responsibility of the abutting property owner or homeowners association.
5) Public sidewalks shall be required on both sides of Shoreline Drive, Crystal Lake Drive, Crystal Place and Wet Stone Drive.
6) Primary electric lines and individual service lines must be placed underground in this subdivision except for those lots that can be served by existing overhead lines. The subdivision developer shall be responsible for providing the trenching, conduit, and backfilling for the installation of underground primary service.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C11	300.00'	419.60'	386.23'	N 48Á26'53" W
C12	1000.00'	195.93'	195.62'	S 05Á04'42" E
C13	1000.00'	195.93'	195.62'	N 05Á04'42" W
C14	300.00'	252.91'	245.49'	N 24Á41'17" E
C15	300.00'	213.79'	209.30'	N 69Á15'19" E
C16	300.00'	233.23'	227.40'	S 22Á47'41" W
C17	300.00'	233.23'	227.40'	S 67Á20'17" W
C18	400.00'	242.25'	238.57'	N 16Á48'56" W
C19	400.00'	83.86'	83.70'	N 40Á10'17" W
C20	400.00'	319.28'	310.87'	S 23Á18'41" E
C27	1670.00'	119.31'	119.29'	S 75Á02'38" E
C127	1030.00'	145.48'	145.36'	N 03Á48'28" W
C128	1030.00'	51.00'	51.00'	N 09Á16'22" W
C129	300.00'	36.57'	36.55'	N 04Á53'10" W
C130	970.00'	103.57'	103.52'	N 02Á31'27" W

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C131	970.00'	86.48'	86.46'	N 08Á08'14" W
C132	1030.00'	4.39'	4.39'	S 10Á34'09" E
C133	1030.00'	90.80'	90.77'	S 07Á55'18" E
C134	1030.00'	90.11'	90.08'	S 02Á53'23" E
C135	1030.00'	16.51'	16.51'	S 00Á04'32" W
C136	970.00'	70.17'	70.15'	S 08Á37'08" E
C137	970.00'	119.88'	119.81'	S 03Á00'21" E
C139	330.00'	51.64'	51.58'	N 05Á42'12" W
C141	330.00'	237.74'	232.64'	N 41Á40'08" W
C142	330.00'	96.00'	95.66'	N 70Á38'30" W
C143	330.00'	55.95'	55.88'	N 83Á49'58" W
C144	270.00'	13.15'	13.15'	N 02Á59'58" W
C145	270.00'	94.48'	94.00'	N 14Á25'10" W
C146	270.00'	271.44'	260.15'	N 53Á14'39" W

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C147	270.00'	29.51'	29.50'	N 85Á10'32" W
C148	430.00'	106.35'	106.08'	N 06Á33'03" W
C149	430.00'	102.72'	102.48'	N 20Á28'47" W
C150	50.00'	11.43'	11.41'	N 52Á47'41" E
C151	50.00'	62.56'	58.56'	N 10Á24'07" E
C152	50.00'	49.42'	47.43'	N 53Á45'29" W
C153	50.00'	39.49'	38.47'	S 75Á18'06" W
C154	430.00'	41.44'	41.42'	N 43Á24'58" W
C155	370.00'	93.69'	93.44'	N 06Á43'10" W
C156	370.00'	207.96'	205.24'	N 30Á04'31" W
C157	430.00'	133.18'	132.65'	S 37Á18'19" E
C158	430.00'	145.52'	144.82'	S 18Á44'16" E
C159	370.00'	95.80'	95.53'	S 38Á45'38" E
C160	370.00'	169.50'	168.02'	S 18Á13'09" E

PLAT NOTES

1) Basis of Bearings: Assumed N 00Á32'05" E along the West line of the Southwest Quarter of S31-T14S-R2W.
2) Monuments found have an unknown origin unless noted otherwise.
3) Flood Information: The majority of this property is located in Flood Zone B and a small portion of this property is located in Flood Zone AH. According to the Flood Insurance Rate Map for the City of Salina, Saline County, Kansas. Map Number: 200316 0060 B Effective Date: 02/05/1986 **The Base Flood Elevation is 1234.0**
4) All adjoining ground is unplatted unless noted otherwise.

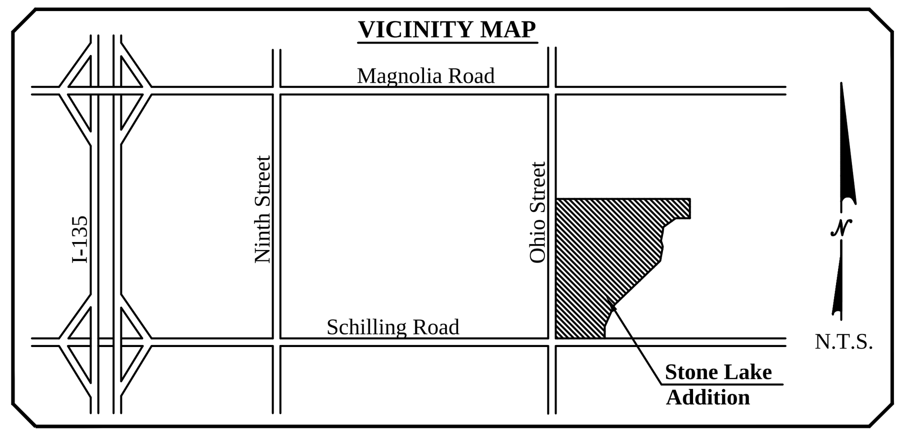
Landmark
SURVEYING & MAPPING INC.
Member Kansas Society of Land Surveyors
Office: (785) 263-2625 Fax: (785) 263-1580
301 North Broadway, P.O. Box 97
Abilene, Kansas 67410

Date of Plot:	11/12/10	Project #: 10-5224
Drawn By:	JPJ	Client: Alsop Sand
Checked By:	TR	Sheet 2 of 3

The Final Plat of

Stone Lake Addition

to the City of Salina, Saline County, Kansas
A parcel of land located in the Southwest Quarter of Section 31, Township 14 South, Range 2 West of the 6th Principal Meridian



LEGAL DESCRIPTION

A parcel of land located in the Southwest Quarter of Section 31, Township 14 South, Range 2 West of the 6th Principal Meridian in Saline County, Kansas, more particularly described as follows:

Commencing at the Southeast Corner of said Southwest Quarter; thence on an assumed bearing of N 00Á37'44" W along the East line of said Southwest Quarter a distance of 50.00 feet to a point on the North right-of-way line of Schilling Road; thence S 89Á33'16" W along said North right-of-way line a distance of 1628.43 feet to the POINT OF BEGINNING of the parcel to be described;
- thence continuing S 89Á33'16" W along said North right-of-way line a distance of 921.13 feet to a point on the East right-of-way line of Ohio Street;
- thence N 00Á32'05" E along said East right-of-way line a distance of 2603.27 feet to a point on the North line of said Southwest Quarter;
- thence N 89Á40'21" E along said North line a distance of 2496.72 feet to the Northeast corner of said Southwest Quarter;
- thence S 00Á37'44" E along the East line of said Southwest Quarter a distance of 362.57 feet;
- thence S 89Á40'21" W a distance of 269.44 feet;
- thence S 54Á59'25" W a distance of 288.58 feet;
- thence S 06Á22'33" W a distance of 85.23 feet;
- thence S 10Á38'25" W a distance of 104.90 feet;
- thence S 11Á49'34" W a distance of 71.27 feet;
- thence S 18Á51'25" E a distance of 113.28 feet;
- thence S 09Á59'44" W a distance of 272.64 feet;
- thence S 46Á11'38" W a distance of 1195.90 feet;
- thence S 24Á22'52" W a distance of 442.20 feet;
- thence S 00Á27'00" E a distance of 216.78 feet to the POINT OF BEGINNING of the parcel to be described;

Said parcel contains 100.20 acres, more or less, and is subject to easements, reservations, and restrictions of record.

SURVEYOR'S CERTIFICATE

State of Kansas)
County of Dickinson) SS

I, the undersigned, do hereby certify that I am a registered land surveyor in the State of Kansas, with experience and proficiency in land surveying; that the heretofore described property was surveyed and subdivided by me, or under my supervision; that all Subdivision Regulations of the City of Salina, Kansas have been complied with the preparation of this plat; and that all of the monuments shown herein actually exist and their positions are correctly shown to the best of my knowledge and belief.

Date of Fieldwork: May 18, 2009

Given under my hand and seal at Abilene, Kansas, this __________ day of ________________ A.D., 2011.

____
Jason P. Johnson L.S. # 1410

COUNTY SURVEYOR CERTIFICATE

State of Kansas)
County of Saline) SS

Reviewed in accordance with K.S.A. 58-2005 on this ______ day of ___________ A.D., 2011.

____
County Surveyor

ABSTRACTOR'S CERTIFICATE

State of Kansas)
County of Saline) SS

The undersigned, being duly licensed and bonded abstractor or an authorized representative thereof, hereby certifies that the above is the legal owner of the property shown on this plat.

Dated this ______ day of ___________ A.D., 2011.

____
Licensed Abstractor

CORPORATE OWNER'S CERTIFICATE

State of Kansas)
County of Saline) SS

This is to certify that the undersigned Proprietor, Alsop Sand Company, Inc., owns the land described in the plat and has caused the same to be surveyed and subdivided as indicated thereon, for the uses and purposes therein set forth and does hereby acknowledge and adopt the same under the style and title thereon indicated.

All streets shown on this plat are hereby dedicated to the public. An easement or license to the public to locate, construct, and maintain or authorize the location, construction, and maintenance of poles, wires, conduits, water, gas and sewer pipes or required drainage channels or structures under or upon the areas marked for easements on this plat is hereby granted

Given under my hand at Salina, Kansas, this ________ day of _______________________ A.D., 2011.

ALSOP SAND COMPANY, INC.

____
Dane Q. Barclay, President

NOTARY CERTIFICATE

State of Kansas)
County of Saline) SS

I _____________________________________, a Notary Public in and for said county, in the state aforesaid, do hereby certify that Dane Q. Barclay, President of Alsop Sand Company, Inc., is personally known to me to be the same person whose name is subscribed to the foregoing instrument as such owner, appeared before me this day in person and acknowledged that he signed and delivered the plat as the free and voluntary act of said corporation for the purposes therein set forth.

Given under my hand and Notarial Seal this _______ day of _____________ A.D., 2011.

____
Notary

CORPORATE OWNER'S CERTIFICATE

State of Kansas)
County of Saline) SS

This is to certify that the undersigned Proprietor, Sparrowhawk Land, LLC, owns the land described in the plat and has caused the same to be surveyed and subdivided as indicated thereon, for the uses and purposes therein set forth and does hereby acknowledge and adopt the same under the style and title thereon indicated.

All streets shown on this plat are hereby dedicated to the public. An easement or license to the public to locate, construct, and maintain or authorize the location, construction, and maintenance of poles, wires, conduits, water, gas and sewer pipes or required drainage channels or structures under or upon the areas marked for easements on this plat is hereby granted

Given under my hand at Salina, Kansas, this ________ day of _______________________ A.D., 2011.

SPARROWHAWK LAND, LLC

____
Dane Q. Barclay, Manager

NOTARY CERTIFICATE

State of Kansas)
County of Saline) SS

I _____________________________________, a Notary Public in and for said county, in the state aforesaid, do hereby certify that Dane Q. Barclay, Manager of Sparrowhawk Land, LLC is personally known to me to be the same person whose name is subscribed to the foregoing instrument as such owner, appeared before me this day in person and acknowledged that he signed and delivered the plat as the free and voluntary act of said corporation for the purposes therein set forth.

Given under my hand and Notarial Seal this _______ day of _____________ A.D., 2011.

____
Notary

COUNTY CLERK AND CITY CLERK CERTIFICATE

State of Kansas)
County of Saline) SS

I do hereby certify that there are no delinquent general taxes, no unpaid current general taxes, no unpaid forfeited taxes, and no redeemable tax sales against any of the land included in the plat.

I further certify that I have received all statutory fees in connection with the plat.

Given under my hand and seal at Salina, Kansas, this _______ day of ____________ A.D., 2011.

____
County Clerk

____
City Clerk

CERTIFICATE OF SPECIAL ASSESSMENTS

State of Kansas)
County of Saline) SS

I do hereby certify that there are no delinquent or unpaid current or forfeited special assessments or any deferred installments thereof that have not been apportioned against the tract of land included in the plat.

Given under my hand and seal at Salina, Kansas, this ______ day of ____________ A.D., 2011.

____
County Clerk

____
City Clerk

SALINA CITY PLANNING COMMISSION CERTIFICATE

State of Kansas)
County of Saline) SS

Approved this __6th__ day of ____July_____ A.D., 2010.

SALINA CITY PLANNING COMMISSION SALINA, KANSAS.

____
Patrick Mikesell, Chairman

Attest: ______________________________
Secretary

CERTIFICATE OF THE CITY COMMISSION

State of Kansas)
County of Saline) SS

Approved this _______ day _____________ A.D., 2011.

BOARD OF CITY COMMISSIONERS OF CITY OF SALINA, KANSAS.

____
Samautha P. Angell, Mayor

Attest: ______________________________
City Clerk

REGISTER OF DEEDS CERTIFICATE

State of Kansas)
County of Saline) SS

Final Plat of Stone Lake Addition to the City of Salina, Saline County, Kansas, was filed in my office on this ______ day of _____________ 2011, at ______ o'clock ____M. and duly recorded in volume ______ of plats, at page _______ .

____
Register of Deeds

Filling fee of ________ paid.

Landmark
SURVEYING & MAPPING INC.
Member Kansas Society of Land Surveyors
Office: (785) 263-2625 Fax: (785) 263-1580
301 North Broadway, P.O. Box 97
Abilene, Kansas 67410

Date of Plot:	7/13/11	Project #: 10-5224
Drawn By:	JPJ	Client: Alsop Sand
Checked By:	TR	Sheet 3 of 3

Earthwork– Storm Sewer			
Item No.	Item	Estimated Quantity	Unit
1.	Clearing and Grubbing	1	L.S.
2.	Common Excavation (***)	17154	Cu Yd.
3.	Compaction of Earthwork (***)	1253	Cu Yd.
4.	Temporary Slope Barrier	2000	L.F.
5.	Temporary Ditch Check (Rock)	5	Cu Yd.
6.	Temporary Inlet Sediment Barrier	1000	LB.
7.	Sediment Removal	1	Cu Yd.
8.	Temporary Construction Entrance	50	TON
9.	Temporary Fertilizer (*)	547	LB.
10.	Temporary Seed (**)	197	LB.
11.	Mobilizationn (Emergency Erosion Control)	1	Ea.
12.	Permanent Seeding	5	Acre
13.	A5-2 Curb Inlet	8	Ea.
14.	Storm Pipe, 18" RCP	288	L.F.
15.	Storm Pipe, 24" RCP	217	L.F.
16.	Storm Pipe, 30" RCP	342	L.F.
17.	End Section, 24" RC	1	Ea.
18.	End Section, 30" RC	2	Ea.
19.	Stone Riprap, Class 1	86	S.Y.

(*) TEMPORARY FERTILIZER

PLS RATE/ACRE	NAME	QTY. (LB)
125	FERTILIZER (16–20–0)	547

(**) TEMPORARY SEEDING MIX

PLS RATE/ACRE	NAME	QTY. (LB)
67	CANADA WILDRYE GRASS SEED	294
33	RYEGRASS SEED	145

(***) Common Excavation & Compaction of Earthwork
No VMS factor has been added to these numbers.

Paving			
Item No.	Item	Estimated Quantity	Unit
20.	Standard Conc. Curb and Gutter	4642	L.F.
21.	Spill Curb	382	L.F.
22.	Reinforced Conc. Valley Gutter	370	S.Y.
23.	8" Asphalt Paving	4125	TON
24.	6" Aggregate Subgrade Modif. (Millings)	11655	S.Y.
25.	4" Conc. Sidewalk, 10' wide	52	S.Y.
26.	4" Conc. Sidewalk, 4' wide	151	S.Y.
27.	Sidewalk Concrete Ramp	5	Ea.
28.	10' Type 1 Conc. Ramp	2	Ea.
29.	4' Type 1 Conc. Ramp	18	Ea.
30.	Emergency Access Drive	400	S.Y.

1

INLET DATA

INLET NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	15
STATION	10+65.91	33+18.15	10+34.56	67+24.02	10+00.00	67+24.02	63+23.08	66+95.51	66+63.51	63+23.08	22+25.00	22+25.00	22+60.28	20+50.18
ROAD NAME	STORM SEWER 2	SHORELINE DR.	STORM SEWER 2	CRYSTAL LAKE DR.	STORM SEWER 2	CRYSTAL LAKE DR.	CRYSTAL LAKE DR.	CRYSTAL LAKE DR.	CRYSTAL LAKE DR.	CRYSTAL LAKE DR.	SHORELINE DR.	SHORELINE DR.		SHORELINE DR.
SIDE	——	Lt.	——	Rt.	——	Lt.	Rt.	Rt.	Rt.	Lt.	Rt.	Lt.	Lt.	Lt.
FL. ELEV.	1229.26	1230.46	1229.56	1230.75	1230.73	1231.92	1232.44	1231.71	1232.08	1233.61	1228.50	1229.17	1229.84	1230.44
T.C. ELEV.	1235.11	1234.97	1234.89	1236.03	1234.89	1236.03	1237.36	1236.40	1236.40	1237.36	1235.17	1235.17	1235.25	1235.85
TYPE	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2	A5–2
RADIUS	100.00'	——	——	——	——	——	——	——	——	——	266.50'	233.50'	233.50'	——
"H"	7.0'	5.5'	6.5'	6.5'	5.0'	5.0'	6.0'	5.5'	5.0'	4.5'	7.5'	7.0'	6.5'	6.5'
"W"	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'
"D"	30"	30"	18"	30"	18"	18"	24"	18"	18"	18"	30"	30"	24"	18"

1
2

Water Main			
Item No.	Item	Estimated Quantity	Unit
31.	12" Water Main	1169	L.F.
32.	8" Water Main	4414	L.F.
33.	1 1/2" Water Service	360	L.F.
34.	1" Water Service	145	L.F.
35.	Fire Hydrant and Valve Assembly	8	Ea.
36.	1 1/2" Service Assembly	10	Ea.
37.	1" Service Assembly	15	Ea.
38.	Curb Shutoff Valve and Box	35	Ea.
39.	Tapping sleeve and valve, 12"x12"x8"	2	Ea.
40.	Fittings & Valves	1	L.S.
41.	Bore & Case under Ohio St.	220	L.F.
42.	Rem. & Replace Conc. Sidewalk	22	S.Y.

Sanitary Sewer			
Item No.	Item	Estimated Quantity	Unit
43.	Sanitary Sewer Pipeline 15"	595	L.F.
44.	Sanitary Sewer Pipeline 8"	1911	L.F.
45.	4' Standard Sanitary Manhole Type 1	10	Ea.
46.	Extra Depth Manhole	85	L.F.
47.	Sanitary Sewer 4"	1228	L.F.
48.	Sanitary Sewer Tees	34	Ea.
49.	Adjust Ex. MH to Grade	5	Ea.
50.	Connect to Existing Manhole	2	Ea.

Miscellaneous			
Item No.	Item	Estimated Quantity	Unit
51.	Construction Staking	1	L.S.
52.	Traffic Control	1	L.S.
53.	Type III Barricades	18	Ea.

1

Add Alternate No. 1			
Item No.	Item	Estimated Quantity	Unit
1.	Concrete Pavement, 6"	9484	S.Y.
2.	6" Aggregate Subgrade Modif. (Millings)	11655	S.Y.

NOTE: ADD ALTERNATE NO. 1 WILL REPLACE ITEM NO. 24 & 25. THE TYPICAL SECTION AND CROSS SECTIONS REFLECT ORIGINAL BID ITEMS.

NOTES:

1. Standard depth of manhole shall be 5'–6'. Extra depth of manhole shall be any vertical elevation over 6'.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

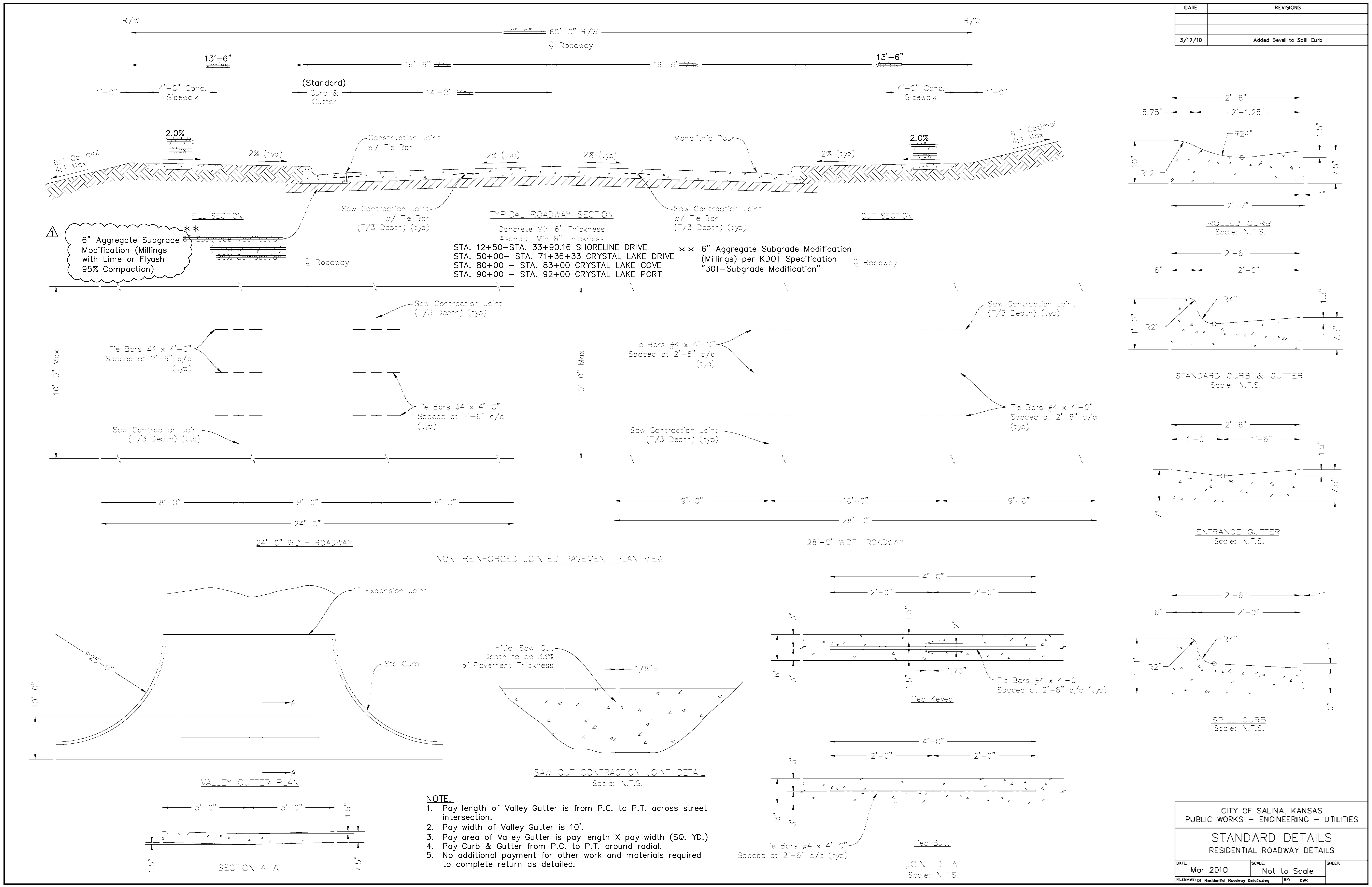
NO.	DATE	DESCRIPTION
1	3–9–12	Addendum No. 1
2	3–13–12	Addendum No. 2

SHEET TITLE: Summary of Quantities

PROJECT PHASE: PHASE I

SHEET NUMBER: 5

FINAL



SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

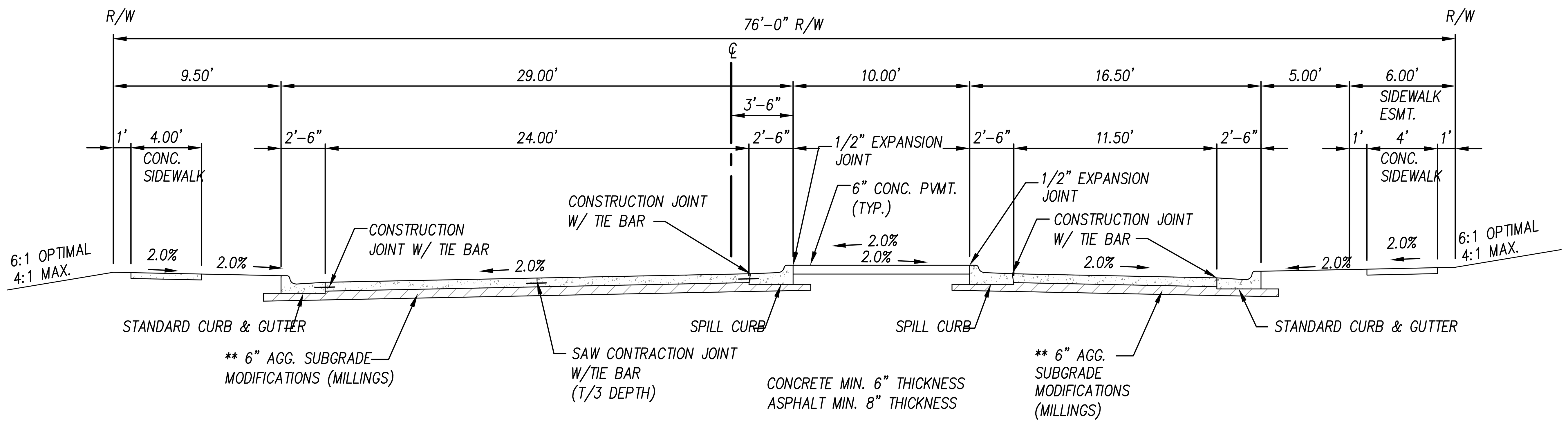
NO.	DATE	DESCRIPTION
1	3-9-12	Addendum No. 1

SHEET TITLE: Typical Section

PROJECT PHASE: PHASE I

SHEET NUMBER: 6

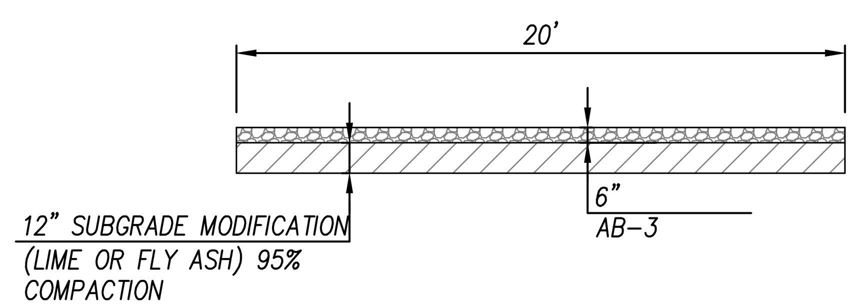
FINAL



** 6" AGGREGATE SUBGRADE MODIFICATION (MILLINGS) PER KDOT SPECIFICATION "301-SUBGRADE MODIFICATION"

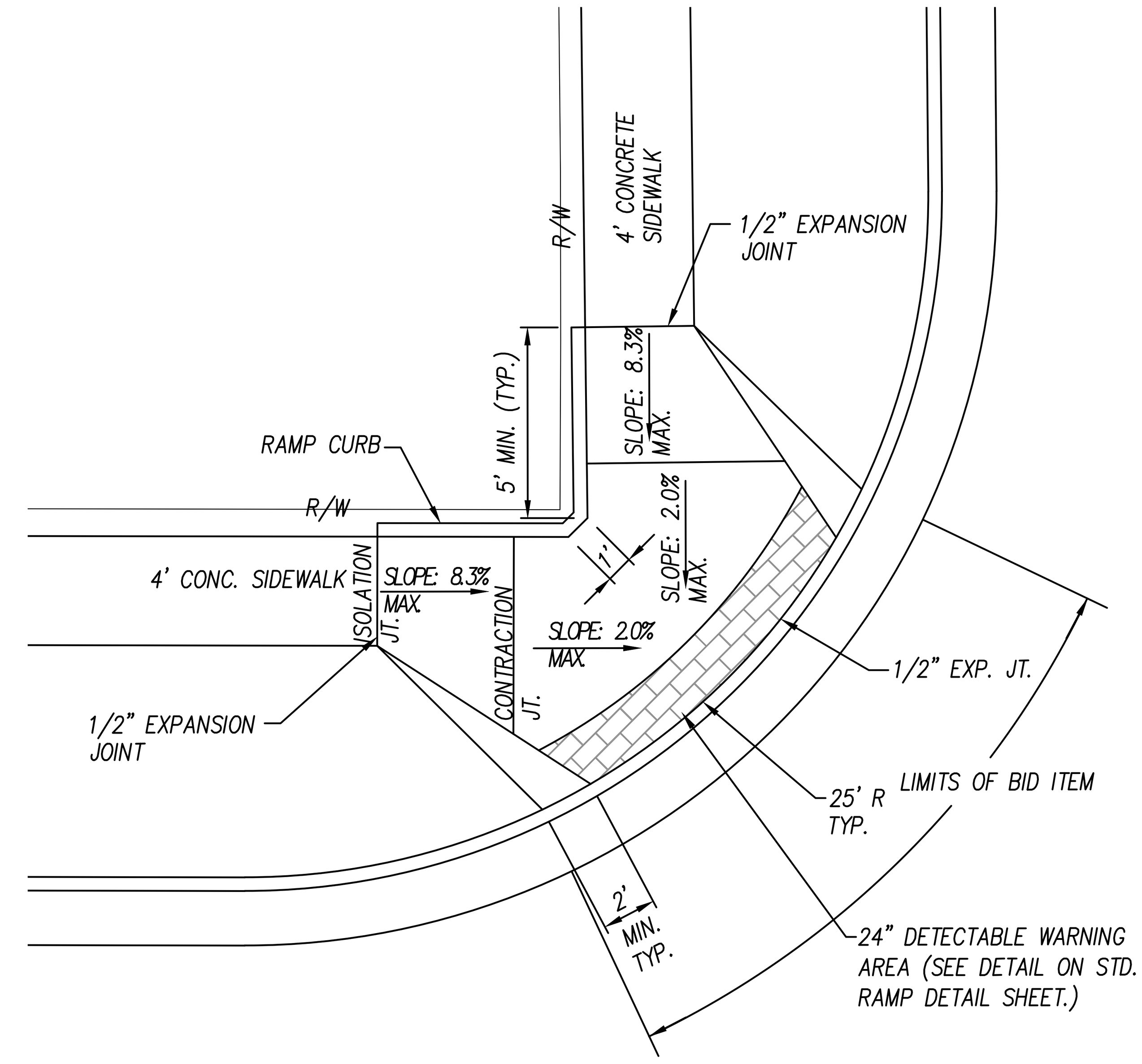
SHORELINE DRIVE TYPICAL SECTION

STA. 10+35.79 TO STA. 12+50



TYPICAL SECTION OF EMERGENCY ROAD

NOTE: TOP OF ROADWAY SURFACE SHALL MATCH EXISTING GROUND.



SIDEWALK CONCRETE RAMP DETAIL

NOTE:

1. SIDEWALK RAMPS SHALL BE CONSTRUCTED USING 6" THICK PAVEMENT CLASS CONCRETE (4000 PSI).
2. EXPANSION JOINTS SHALL BE SEALED WITH APPROVED JOINT SEALANT WHERE SIDEWALKS INTERSECT WITH PAVEMENT CURB.
3. SURFACE TEXTURE OF THE RAMP SHALL BE BRUSHED FINISHED TO THE SLOPE OF THE RAMP.
4. PAVING BRICK (TRUNCATED DOME SURFACE) UNITS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION AND SHALL BE A CONTRASTING COLOR TO THE ADJACENT SURFACES.
5. THE BRICKS SHALL BE SAW CUT ONLY AND ANY BRICK SHALL NOT BE LESS THAN 25% OF A FULL BRICK.
6. THE BRICKS SHALL BE PLACED IN A PATTERN THAT ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.
7. THE ENTIRE RAMP AS SHOWN WILL BE BID AS "SIDEWALK RAMP" AND PAYMENT FOR THIS WORK WILL BE MEASURED BY EACH.
8. CURB & GUTTER WITHIN RAMP SECTION IS SUBSIDIARY TO "SIDEWALK RAMP" AND CONSTRUCTED IN ACCORDANCE WITH DETAILS ON STANDARD RAMP DETAILS SHEET.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

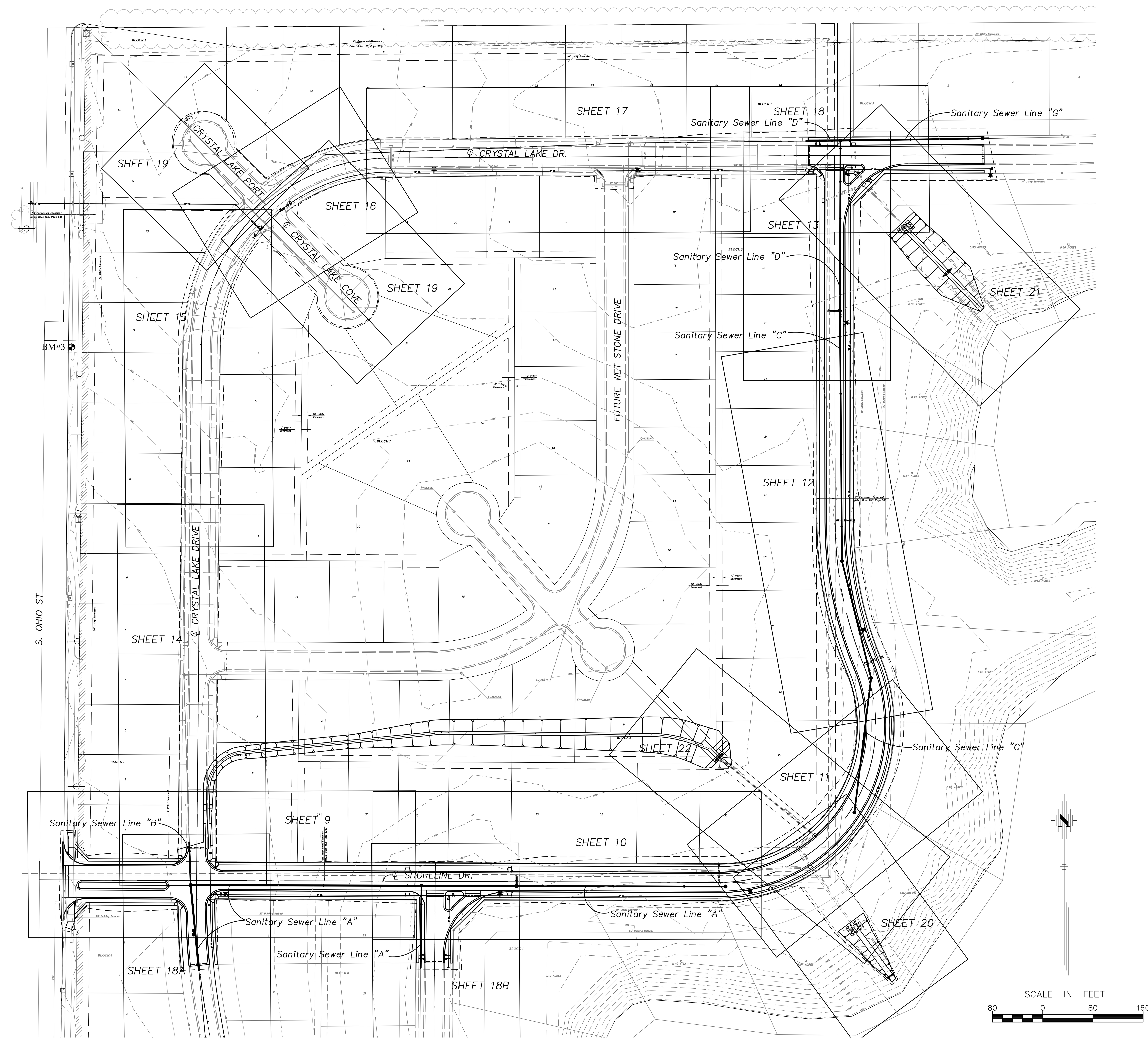
NO.	DATE	DESCRIPTION

SHEET TITLE: Typical Sections & Details

PROJECT PHASE: PHASE I

SHEET NUMBER: 7

FINAL



SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: KWB CHECKED BY: KWB REV:

REVISIONS:

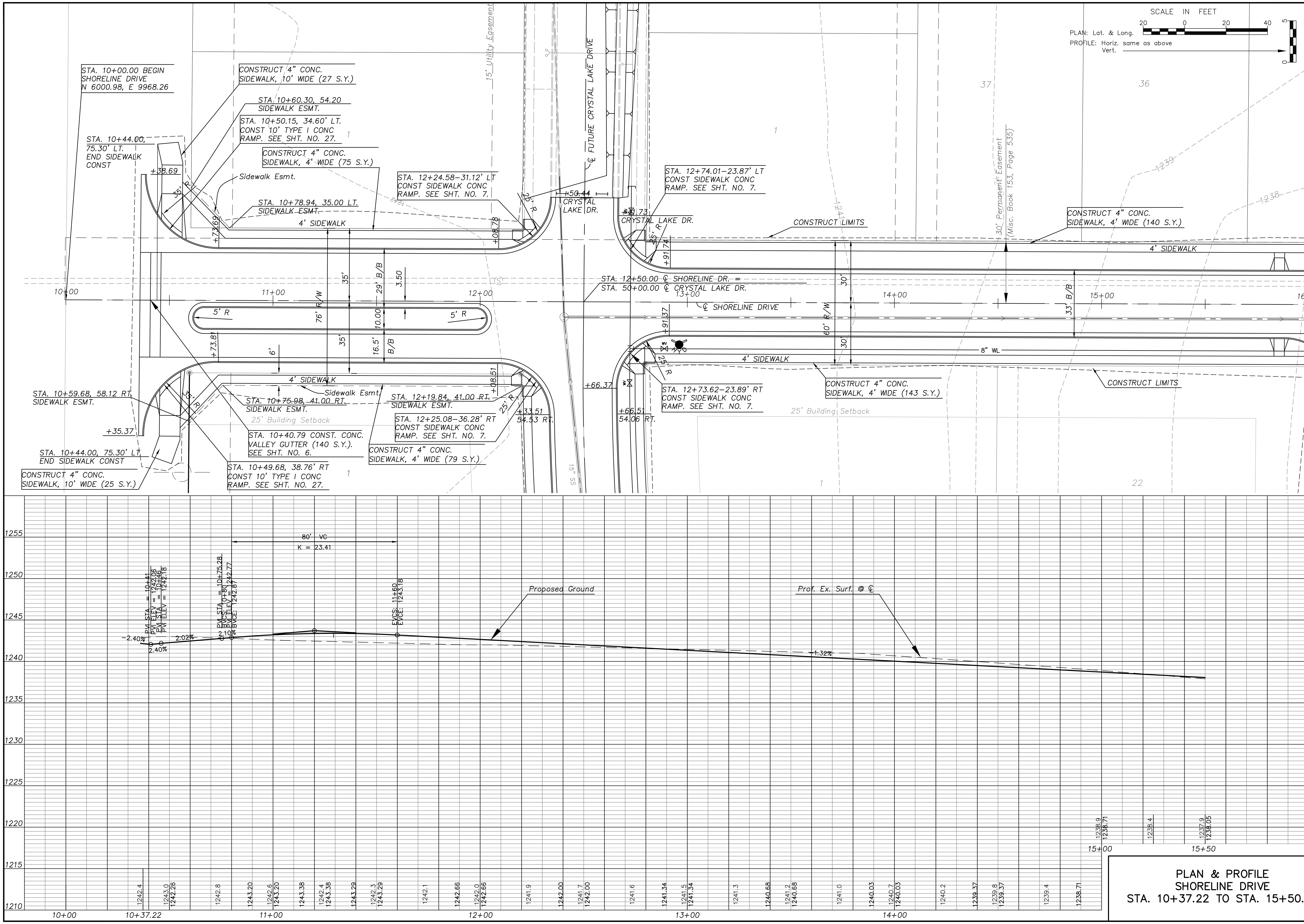
NO.	DATE	DESCRIPTION

SHEET TITLE:
GENERAL LAYOUT

PROJECT PHASE:
PHASE I

SHEET NUMBER:
8

FINAL



PLAN & PROFILE
SHORELINE DRIVE
STA. 10+37.22 TO STA. 15+50.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 67401

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

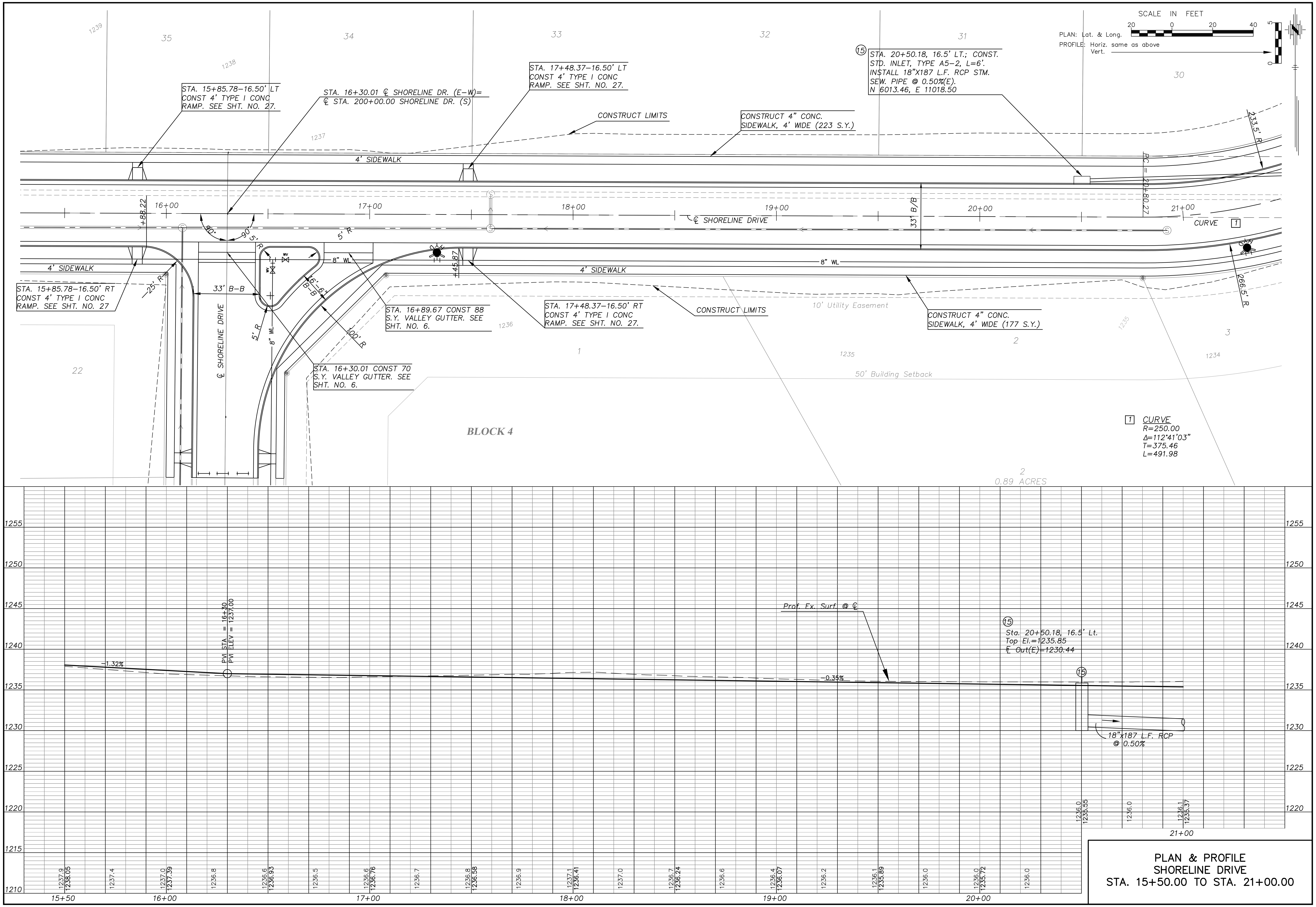
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 9

FINAL



PLAN & PROFILE
SHORELINE DRIVE
STA. 15+50.00 TO STA. 21+00.00

SEAL:

CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

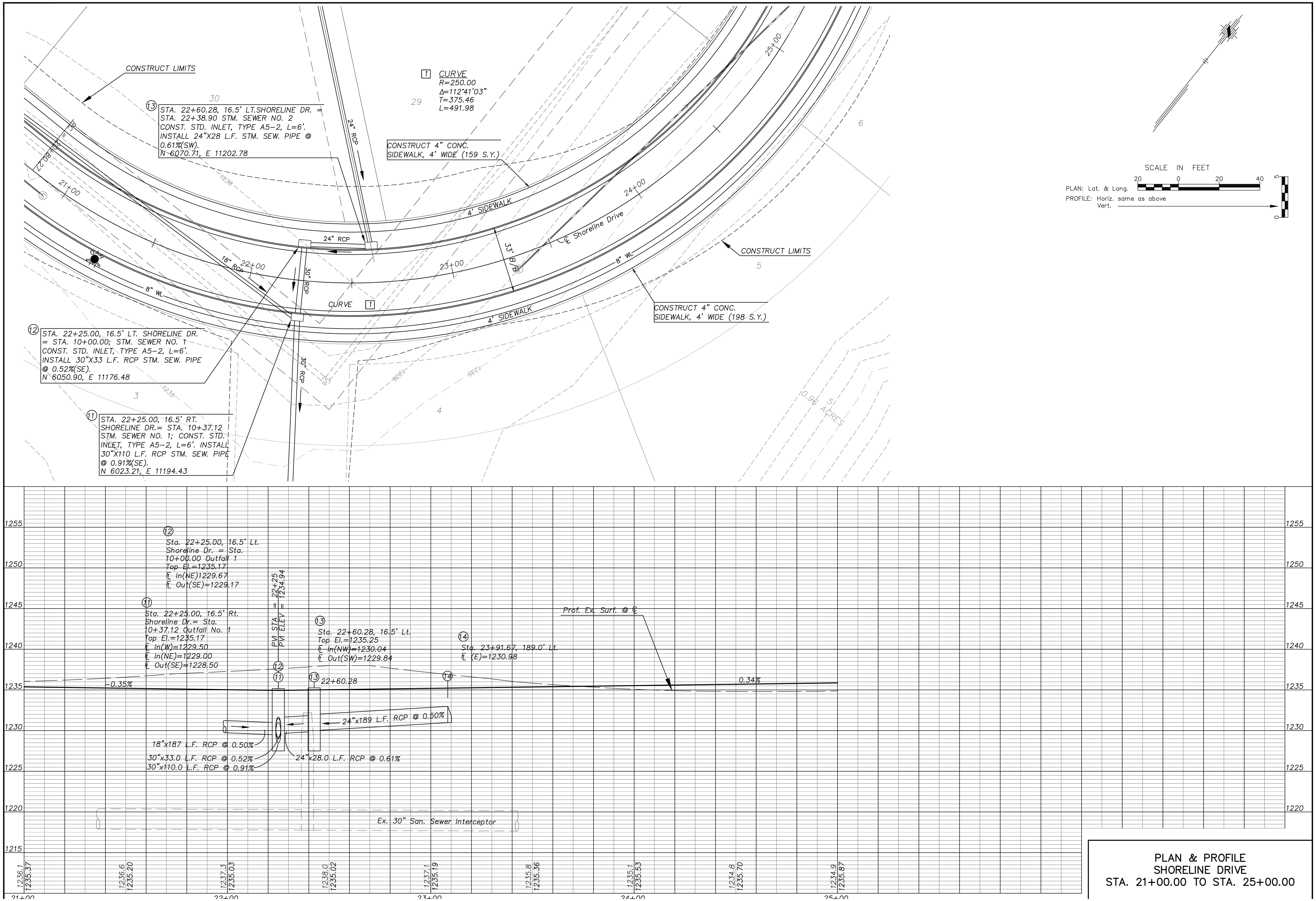
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 10

FINAL



PLAN & PROFILE
SHORELINE DRIVE
STA. 21+00.00 TO STA. 25+00.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

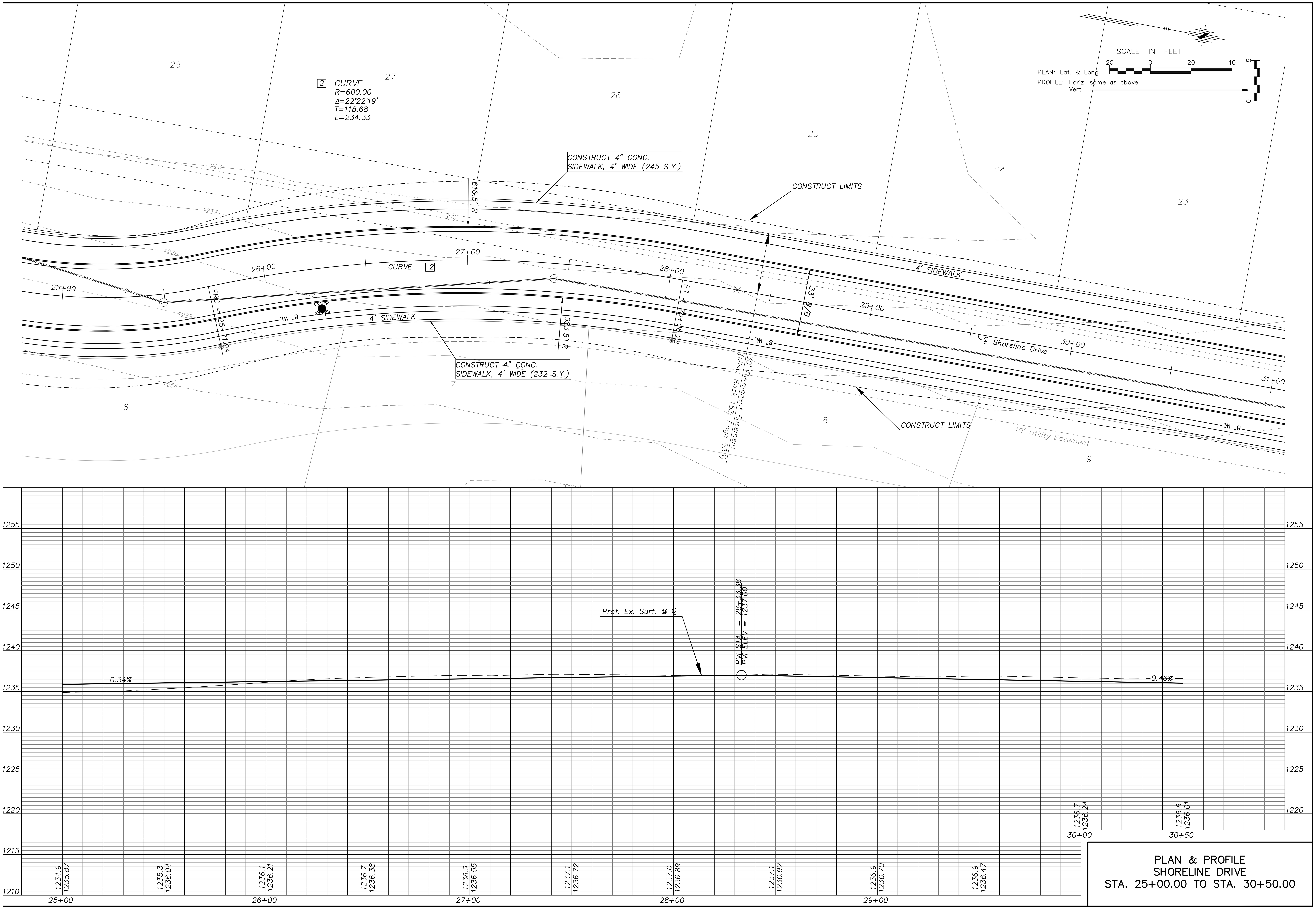
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 11

FINAL



PLAN & PROFILE
SHORELINE DRIVE
STA. 25+00.00 TO STA. 30+50.00

SEAL:

DESIGNER: Cook, Flatt & Strobel ENGINEERS, P.A. CFS

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

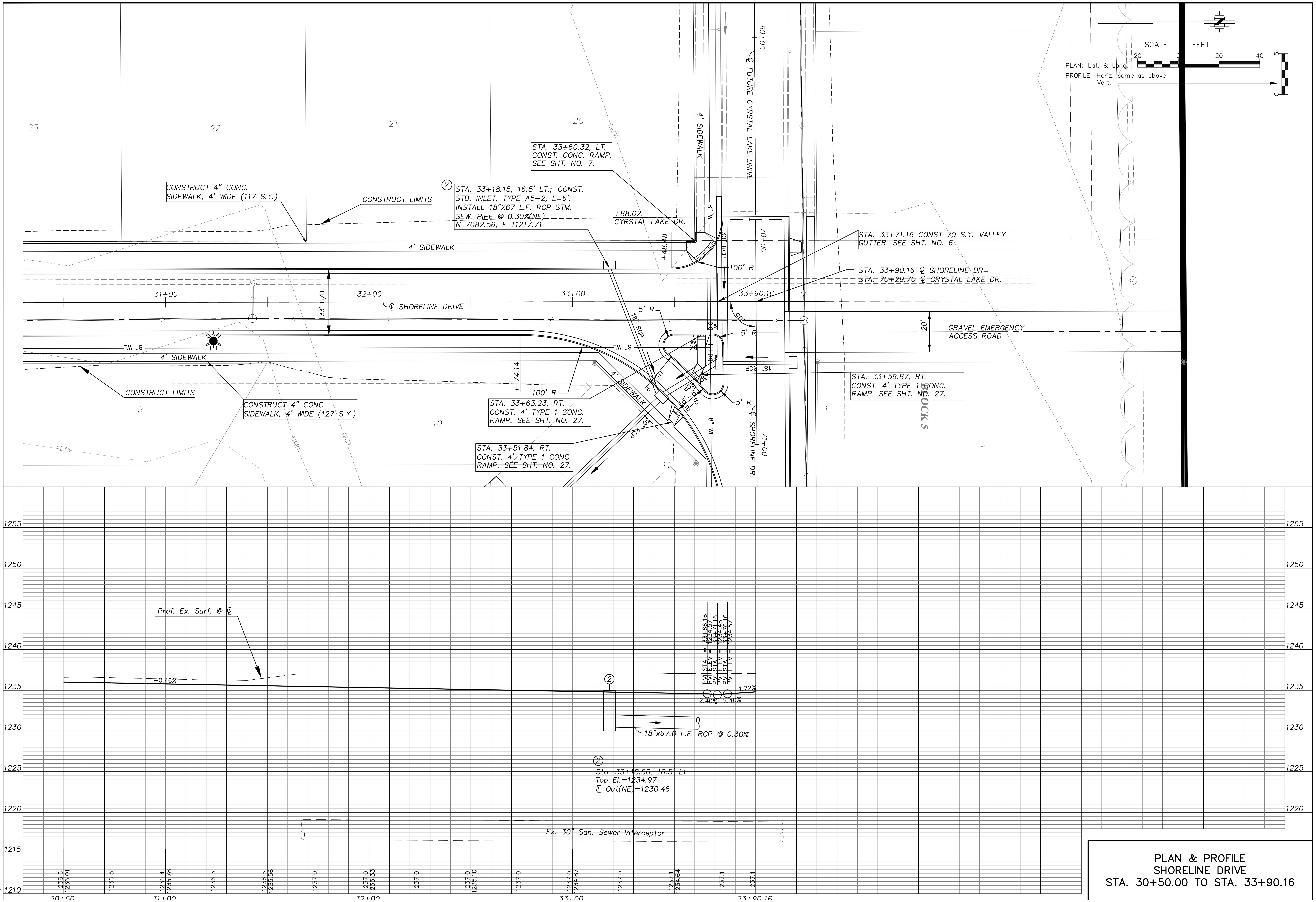
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 12

FINAL



PLAN & PROFILE
SHORELINE DRIVE
STA. 30+50.00 TO STA. 33+90.16

SEAL:

DESIGNER:
CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

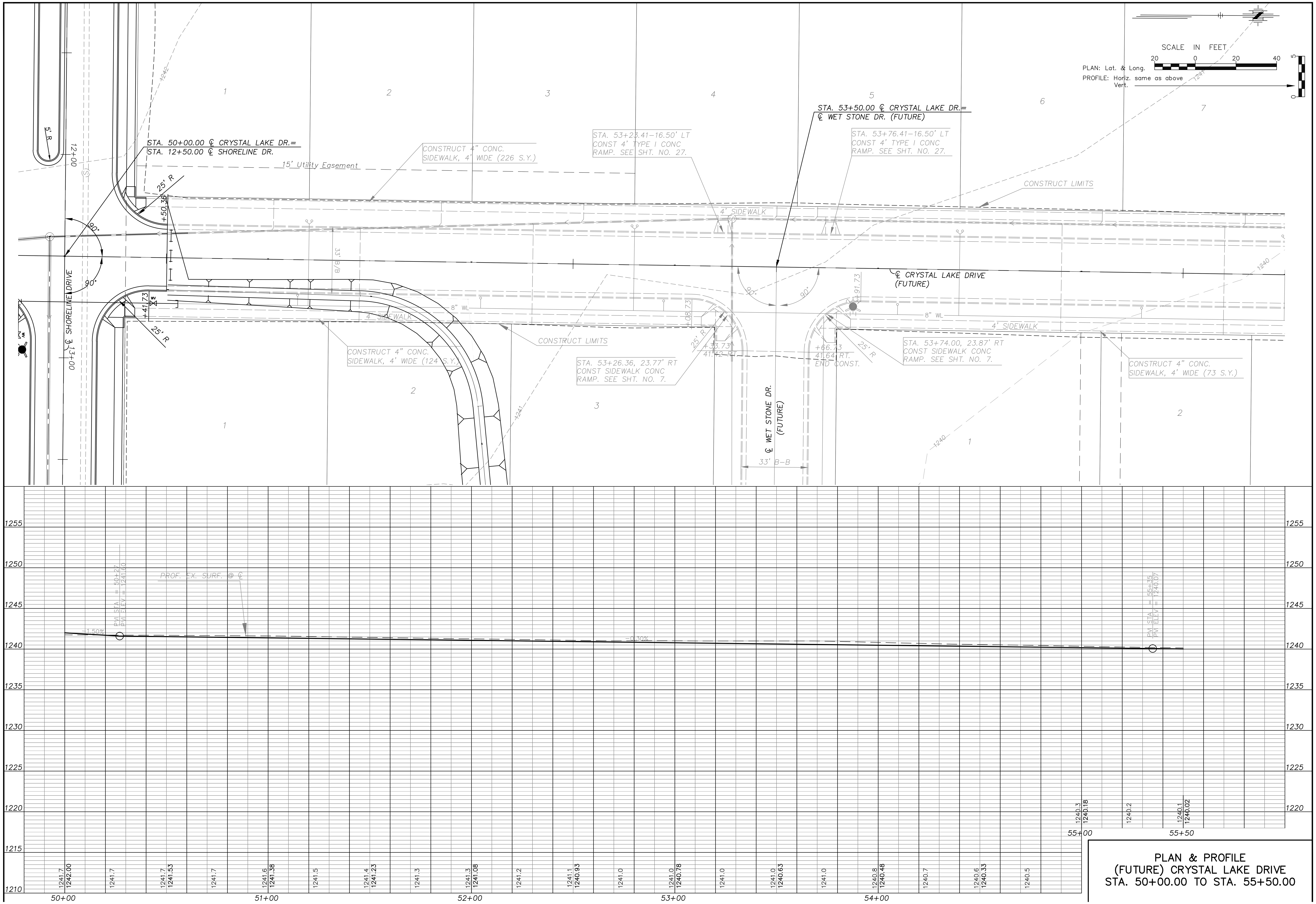
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 13

FINAL



PLAN & PROFILE
(FUTURE) CRYSTAL LAKE DRIVE
STA. 50+00.00 TO STA. 55+50.00

SEAL:

Cook, Flatt & Strobel
ENGINEERS, P.A.
CFS

DESIGNER:

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

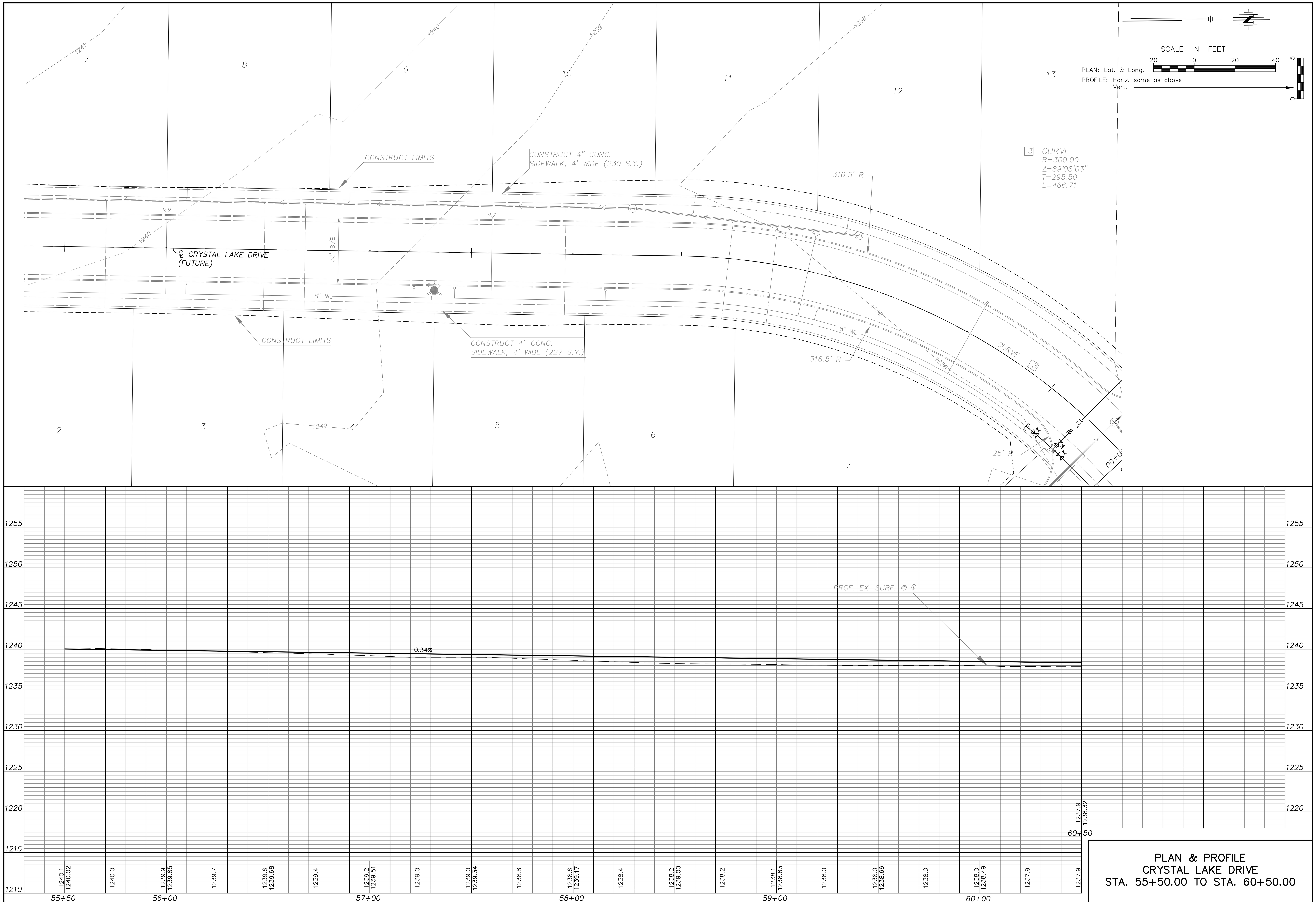
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 14

FINAL



PLAN & PROFILE
CRYSTAL LAKE DRIVE
STA. 55+50.00 TO STA. 60+50.00

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

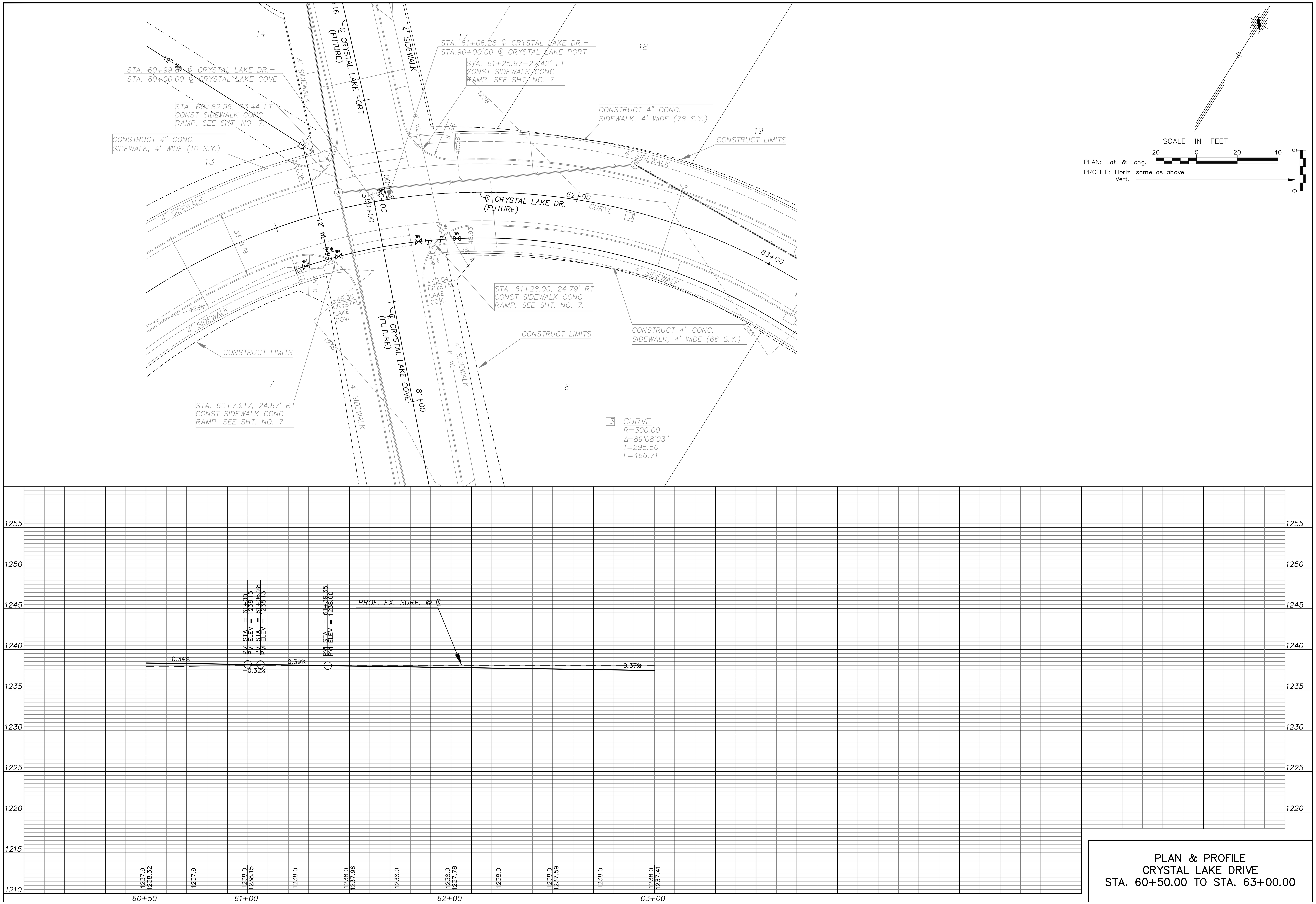
NO.	DATE	DESCRIPTION

SHEET TITLE:
PLAN & PROFILE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
15

FINAL



SEAL:

Cook, Flatt & Strobel ENGINEERS, P.A.

DESIGNER: CFS

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

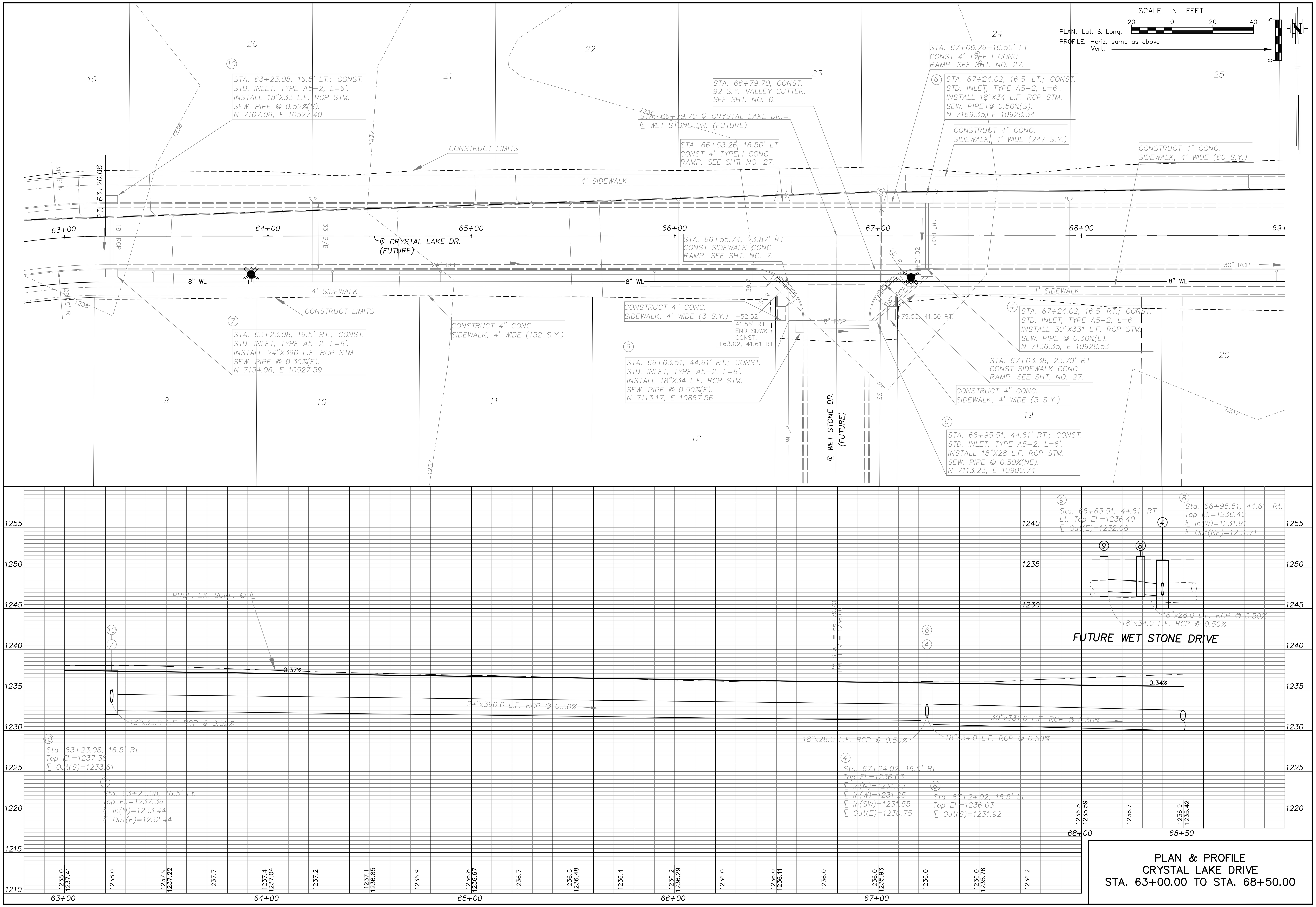
SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 16

FINAL

PLAN & PROFILE
CRYSTAL LAKE DRIVE
STA. 60+50.00 TO STA. 63+00.00



PLAN & PROFILE
CRYSTAL LAKE DRIVE
STA. 63+00.00 TO STA. 68+50.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

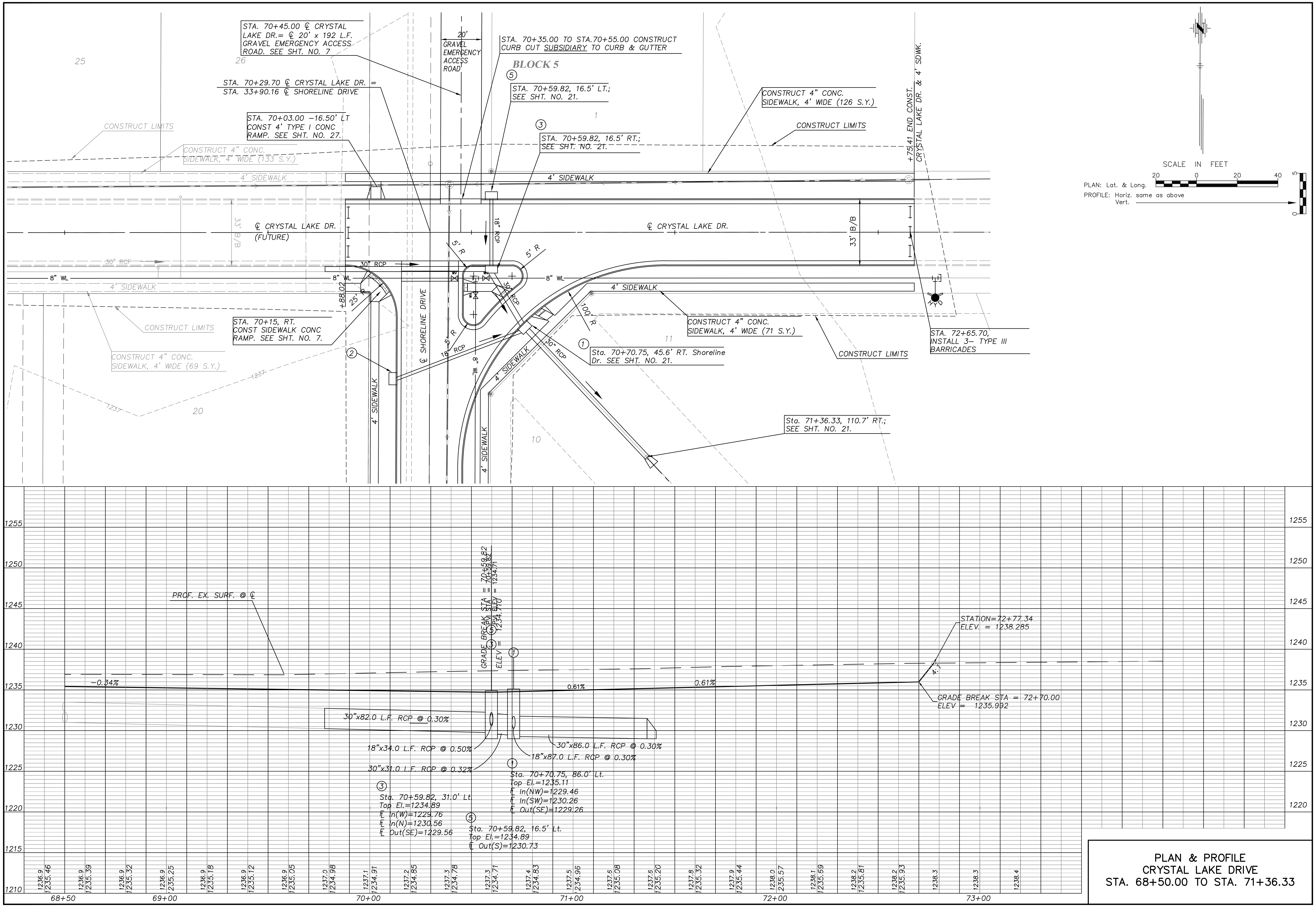
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 17

FINAL



PLAN & PROFILE
CRYSTAL LAKE DRIVE
STA. 68+50.00 TO STA. 71+36.33

SEAL:

Cook, Flatt & Strobel ENGINEERS, P.A.

DESIGNER: CFS

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

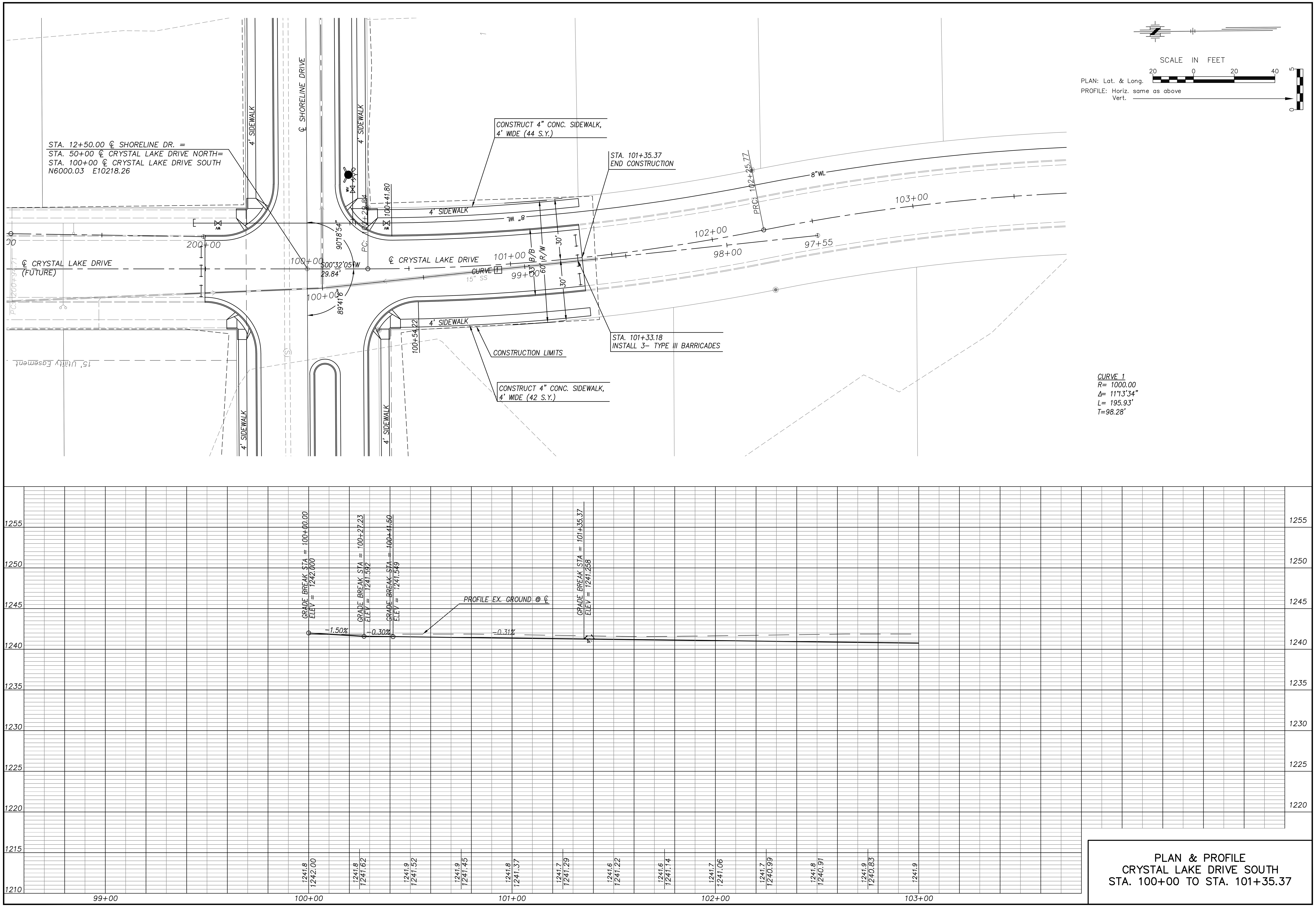
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 18

FINAL



PLAN & PROFILE
CRYSTAL LAKE DRIVE SOUTH
STA. 100+00 TO STA. 101+35.37

SEAL:

DESIGNER:
CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

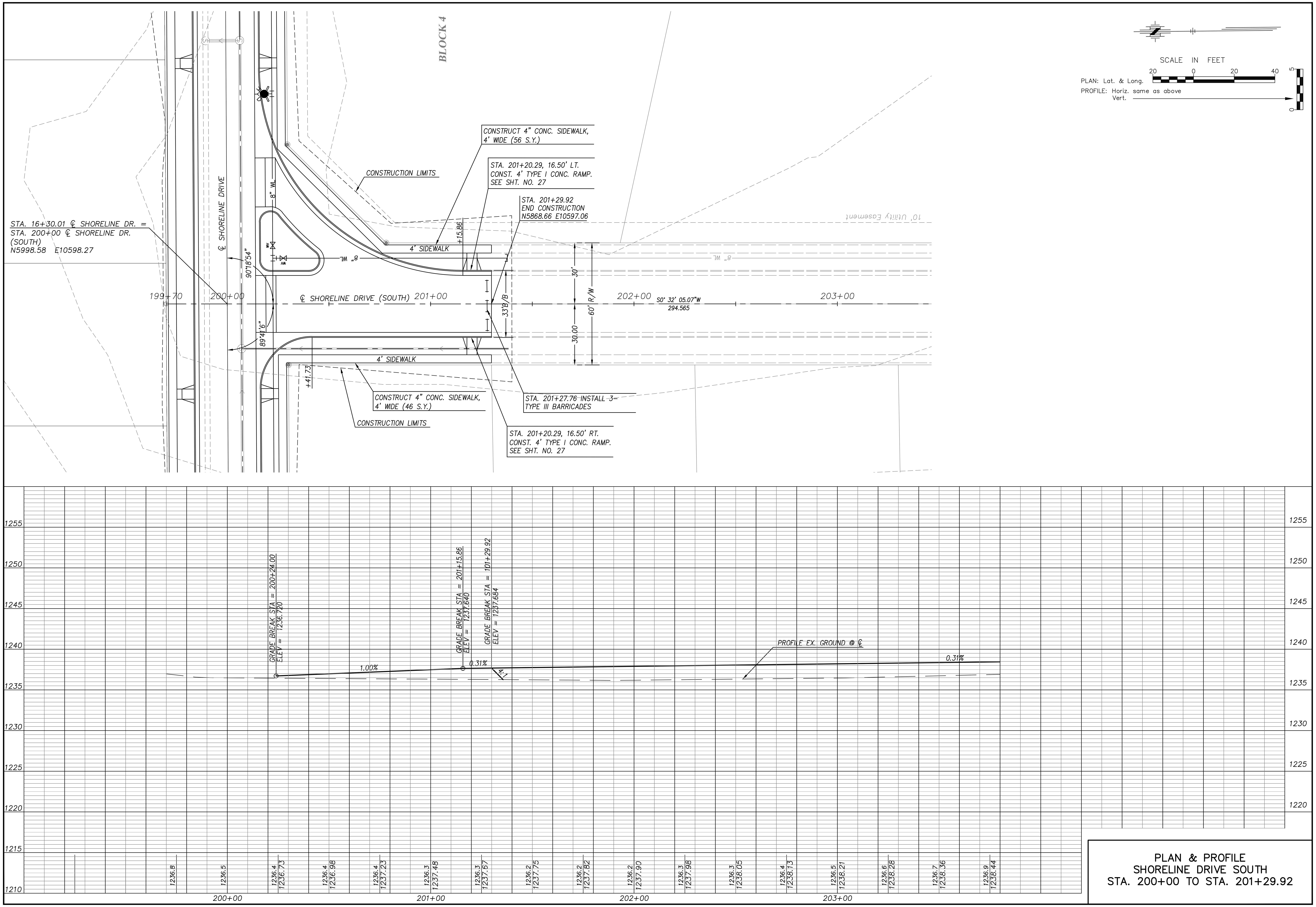
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 18A

FINAL



PLAN & PROFILE
SHORELINE DRIVE SOUTH
STA. 200+00 TO STA. 201+29.92

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

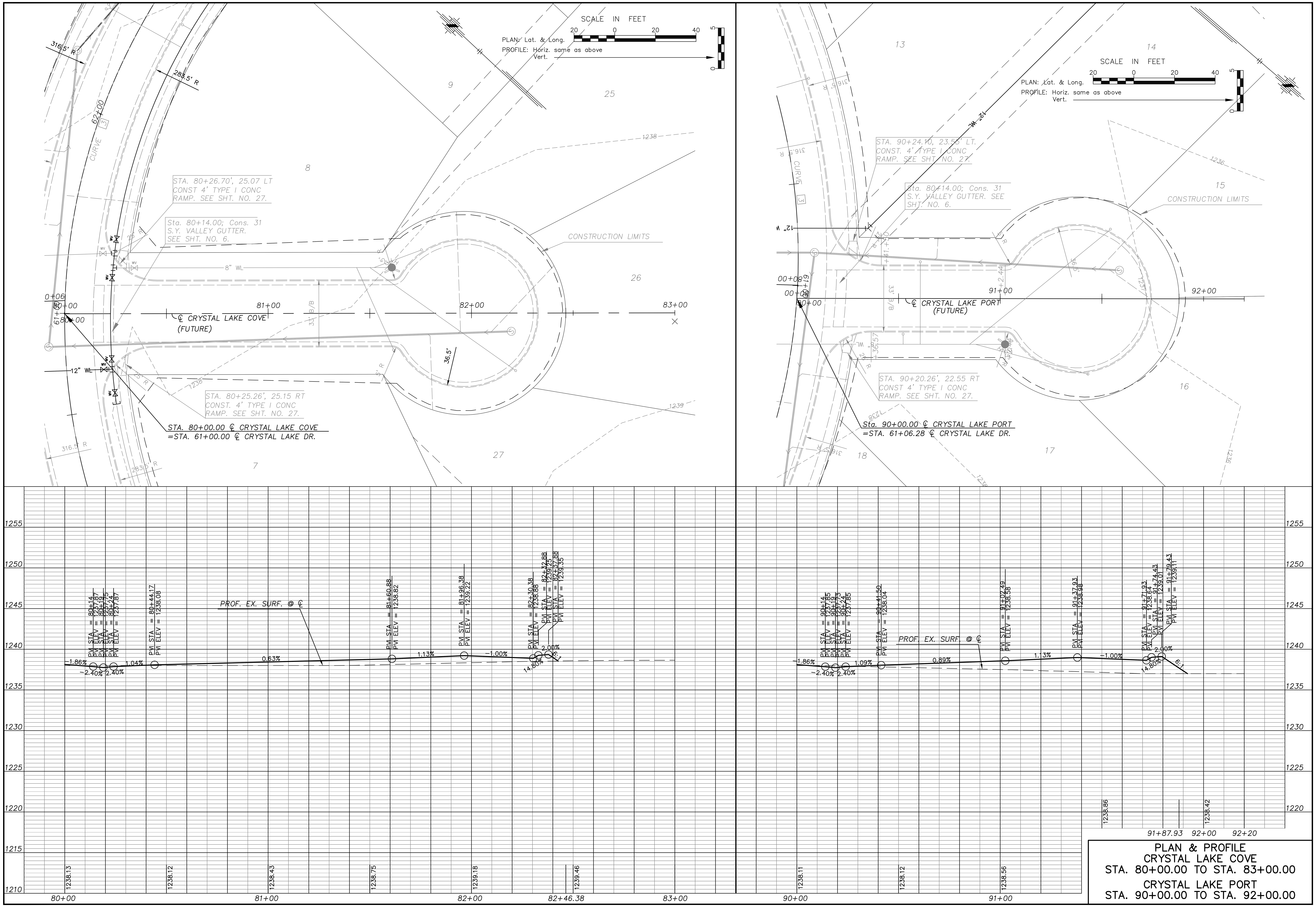
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 18B

FINAL



PLAN & PROFILE
CRYSTAL LAKE COVE
STA. 80+00.00 TO STA. 83+00.00
CRYSTAL LAKE PORT
STA. 90+00.00 TO STA. 92+00.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/15 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

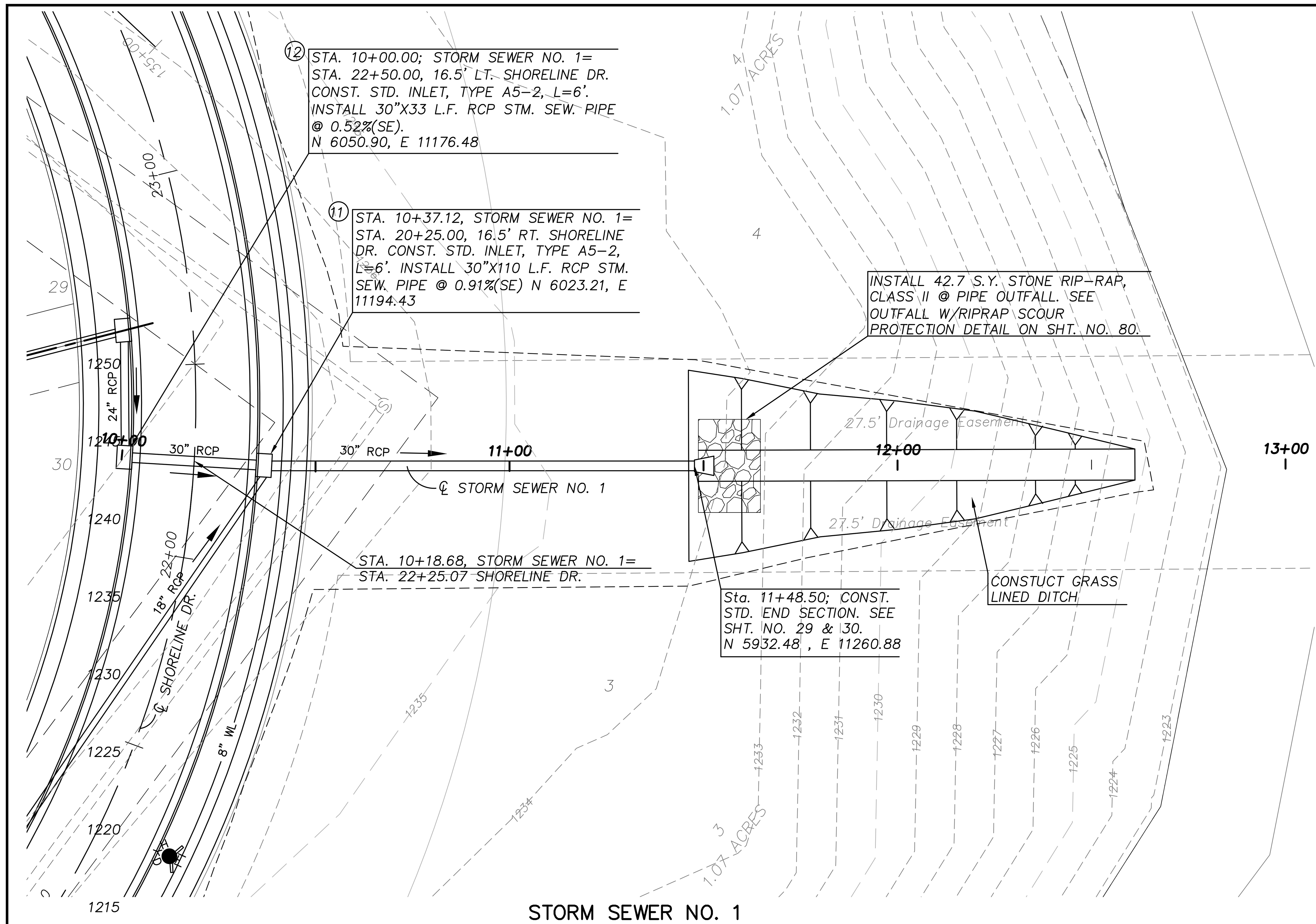
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

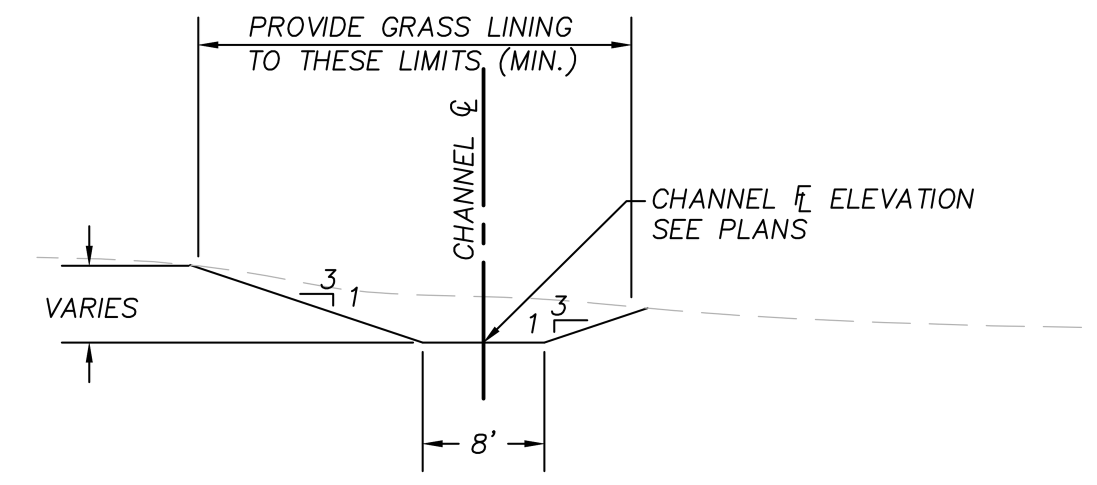
SHEET NUMBER: 19

FINAL

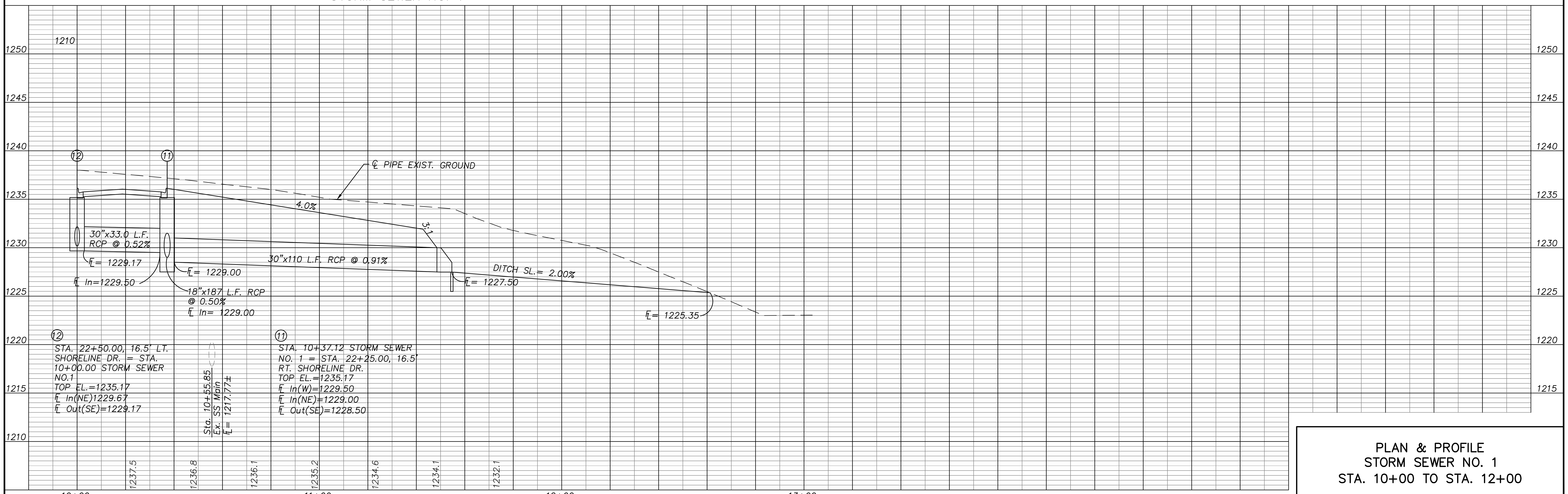


SCALE IN FEET

PLAN: Lat. & Long.
PROFILE: Horiz. same as above
Vert.



TYPICAL GRASS LINED DITCH CROSS SECTION
SCALE: NTS



PLAN & PROFILE
STORM SEWER NO. 1
STA. 10+00 TO STA. 12+00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

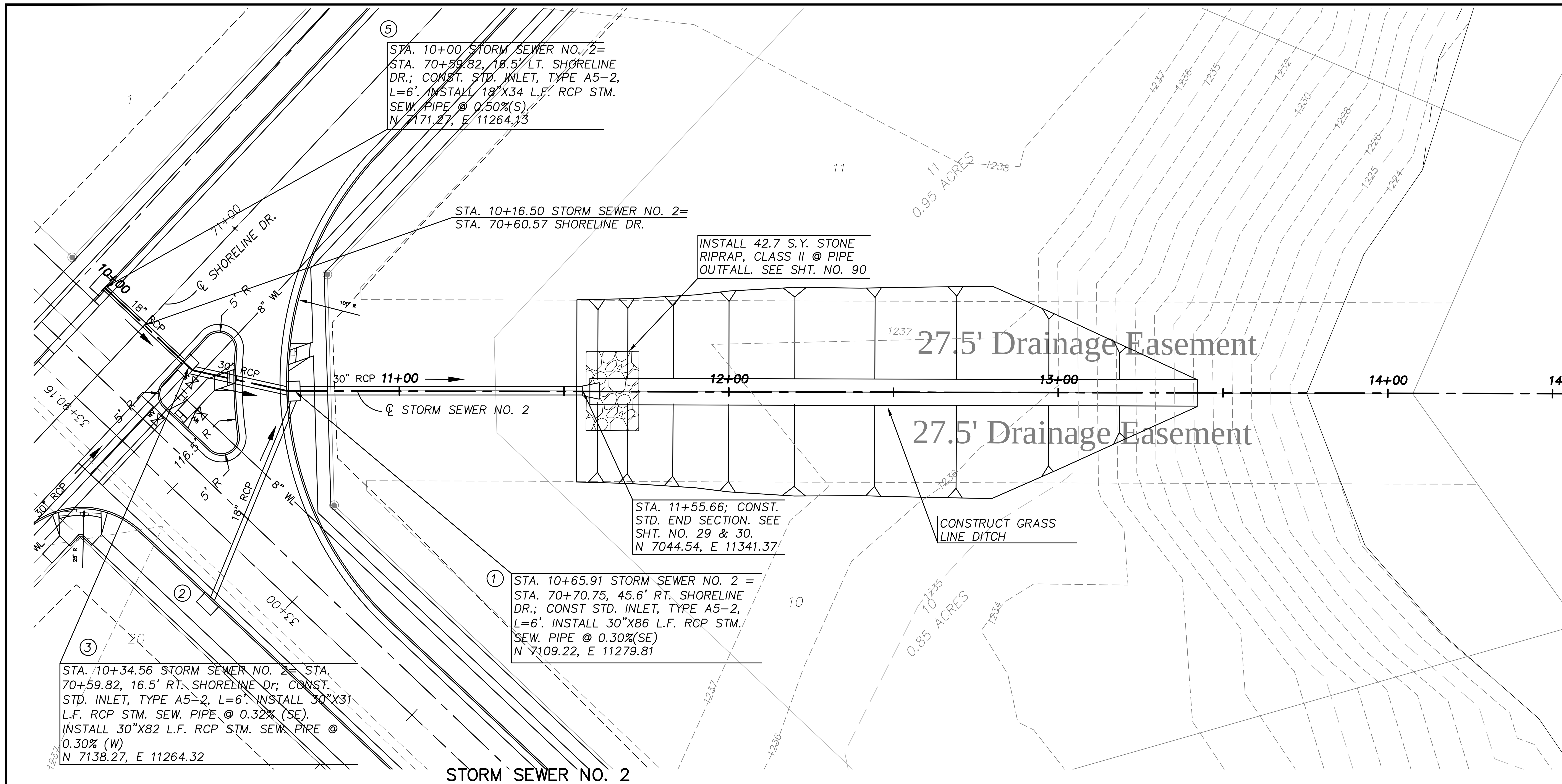
NO.	DATE	DESCRIPTION

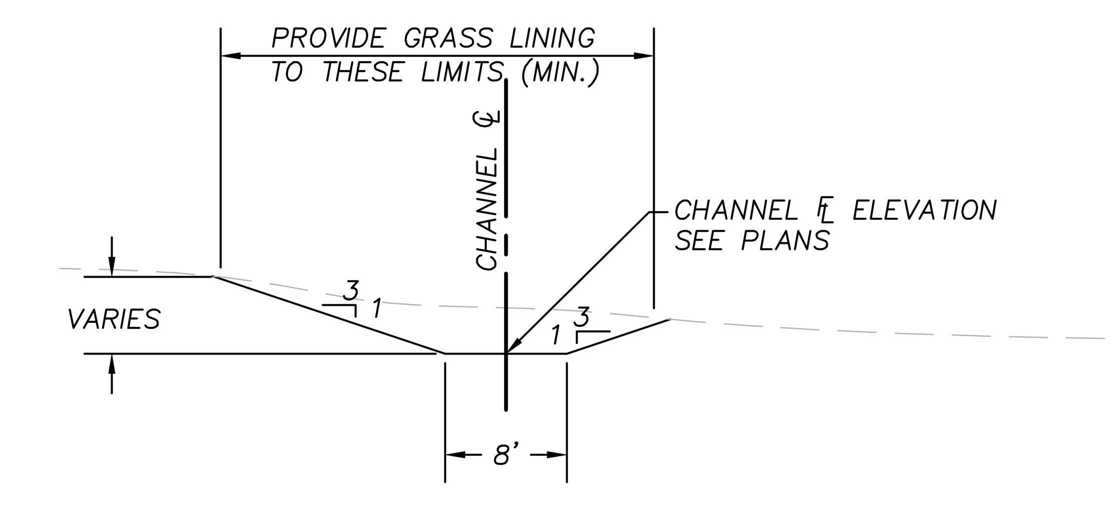
SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

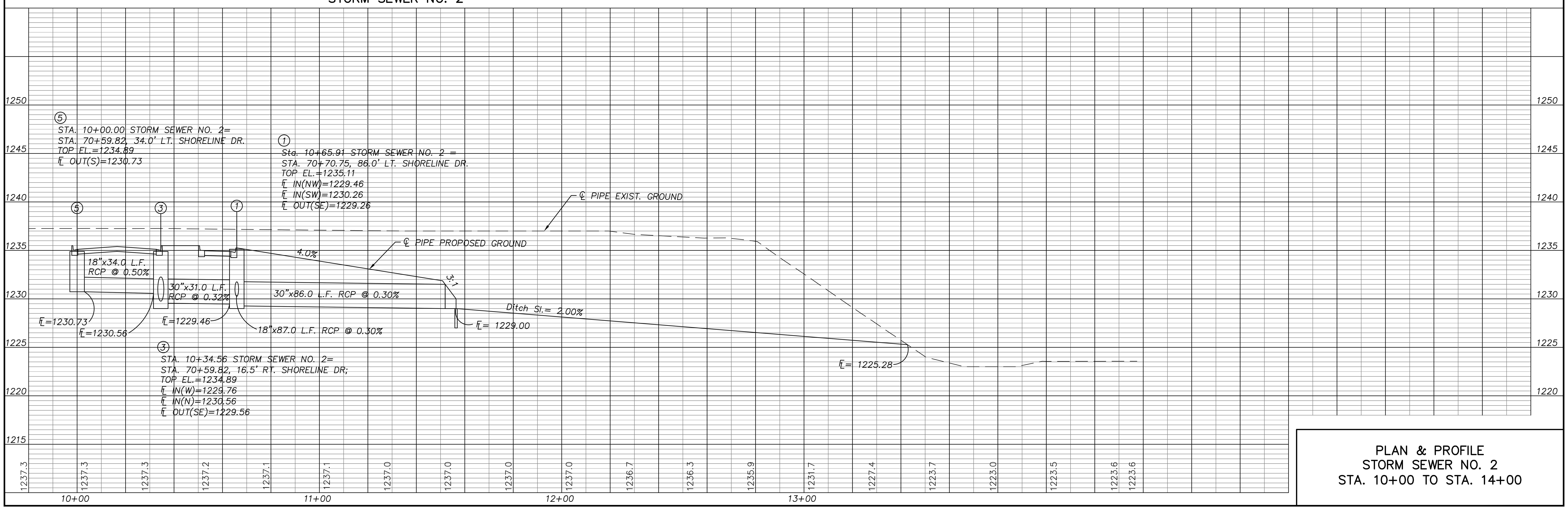
SHEET NUMBER: 20

FINAL





TYPICAL GRASS LINED DITCH CROSS SECTION
SCALE: NTS



PLAN & PROFILE
STORM SEWER NO. 2
STA. 10+00 TO STA. 14+00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

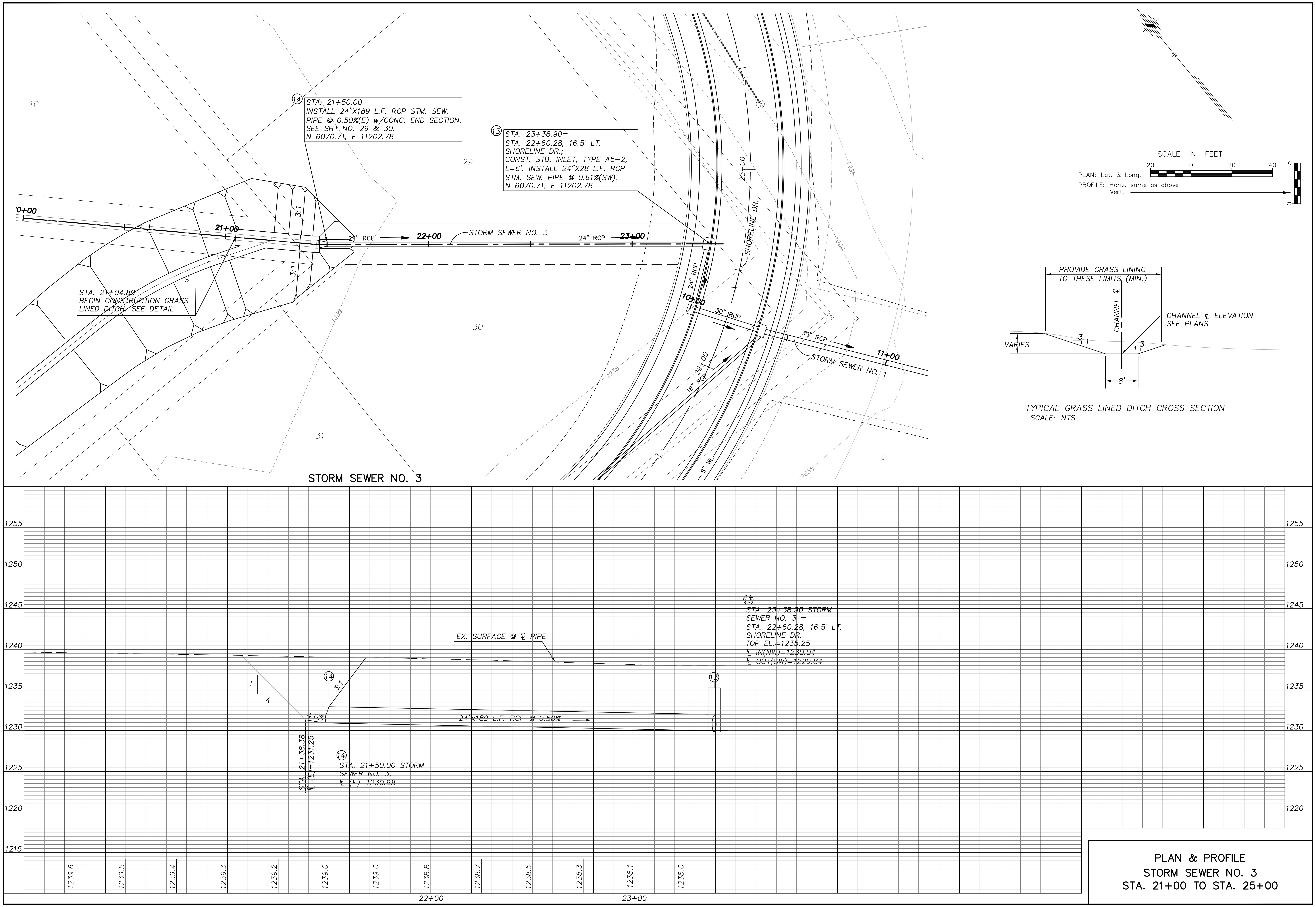
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 21

FINAL



PLAN & PROFILE
STORM SEWER NO. 3
STA. 21+00 TO STA. 25+00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

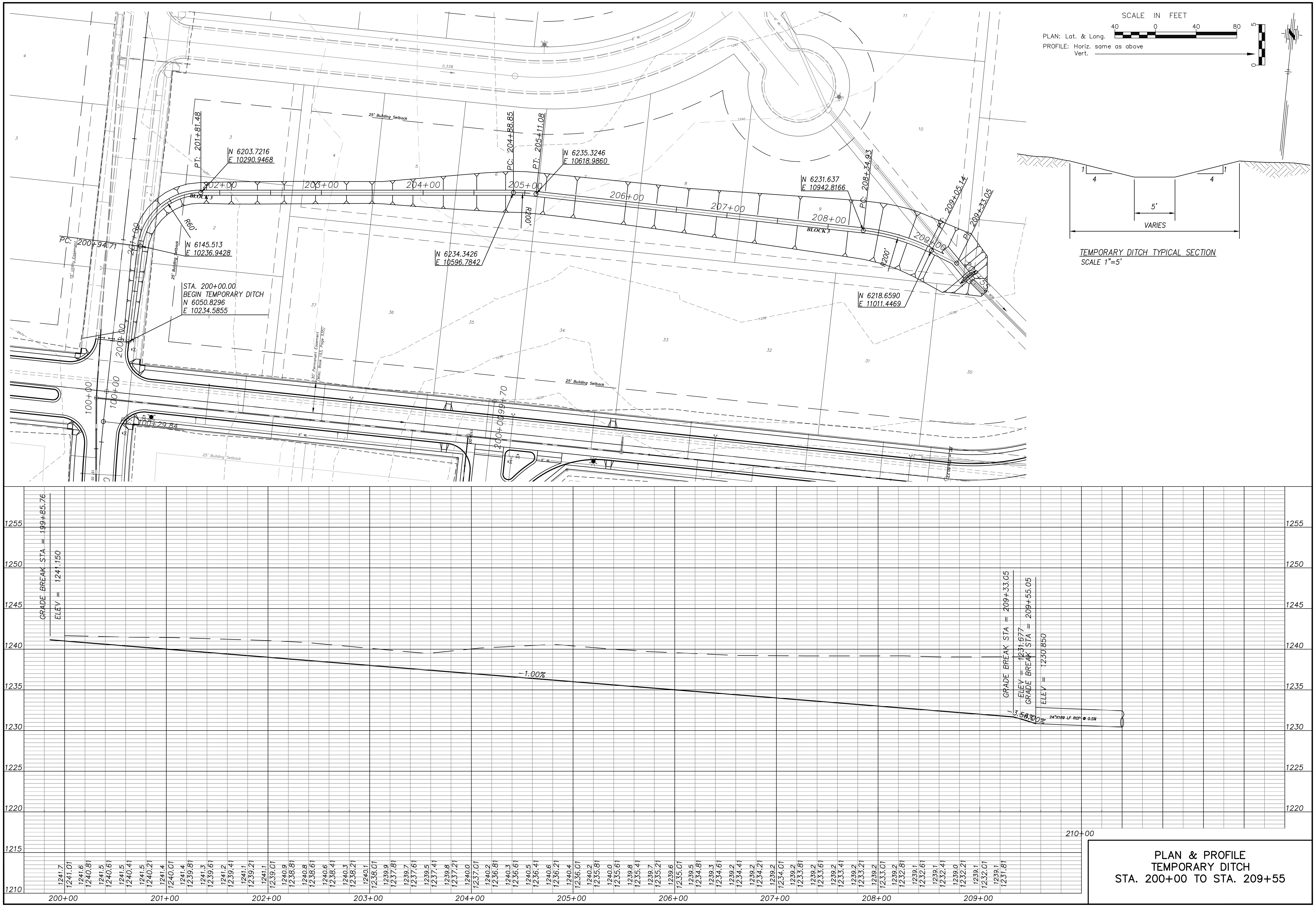
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: PHASE I

SHEET NUMBER: 22

FINAL



PLAN & PROFILE
TEMPORARY DITCH
STA. 200+00 TO STA. 209+55

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

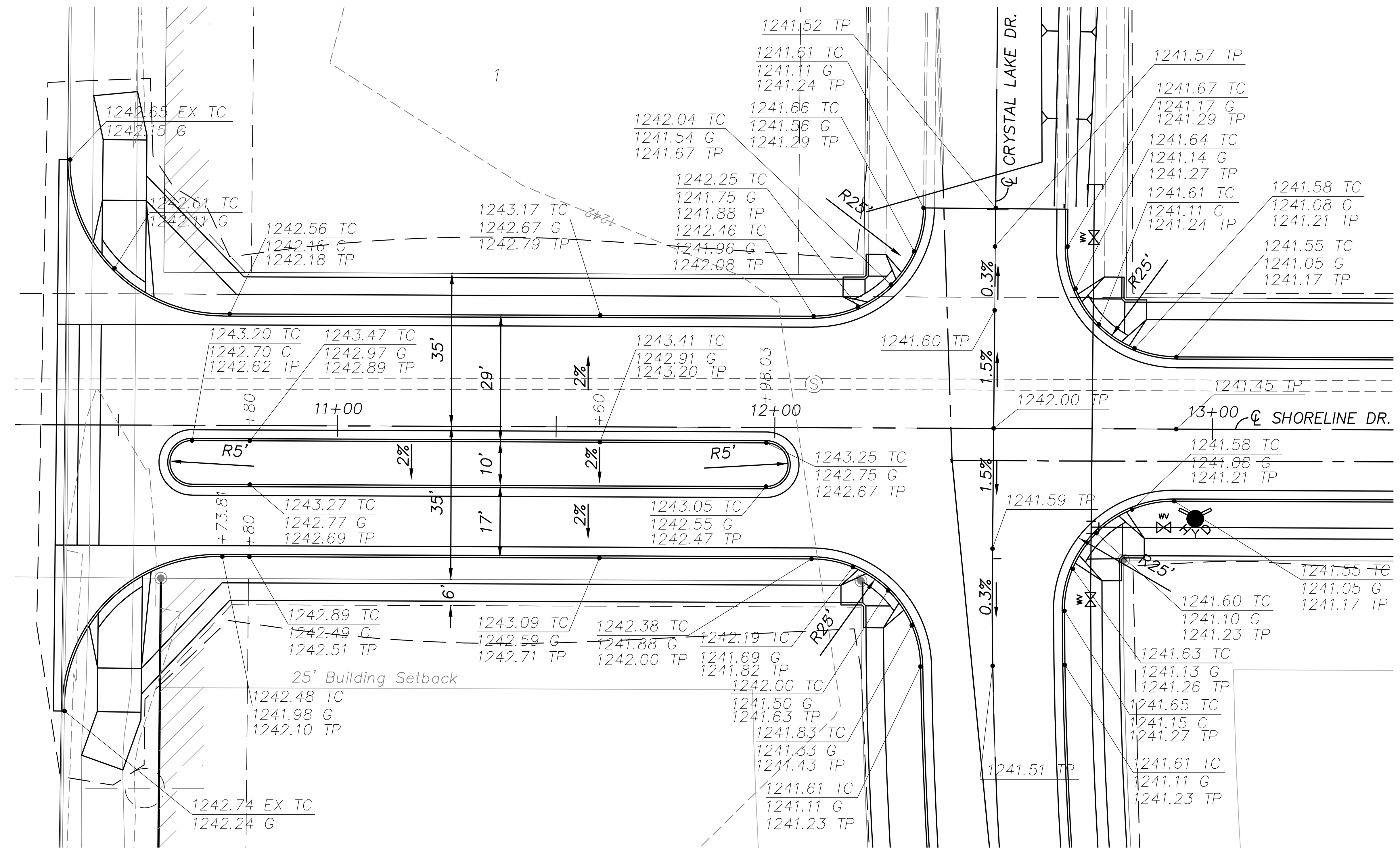
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

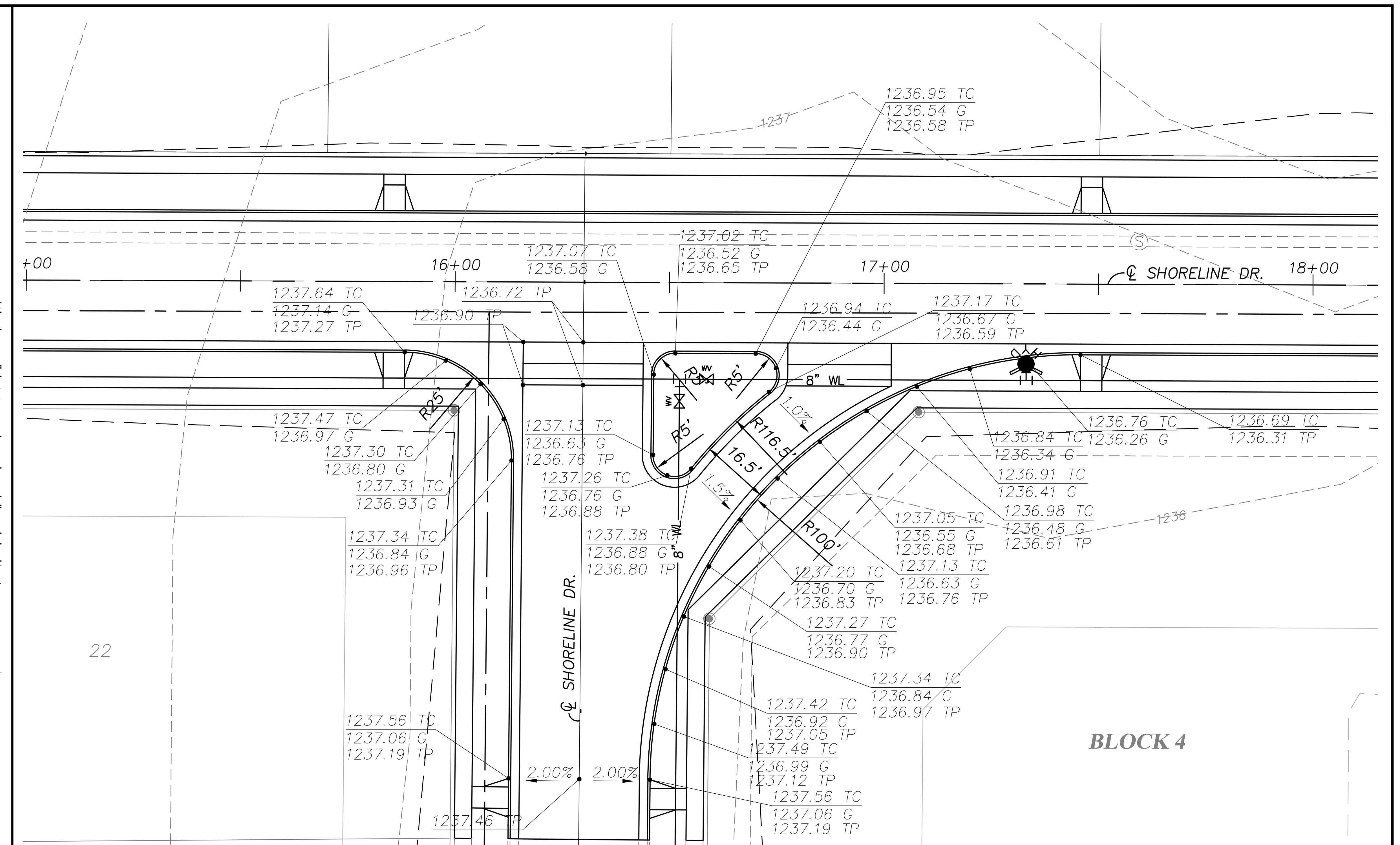
PROJECT PHASE: PHASE I

SHEET NUMBER: 22A

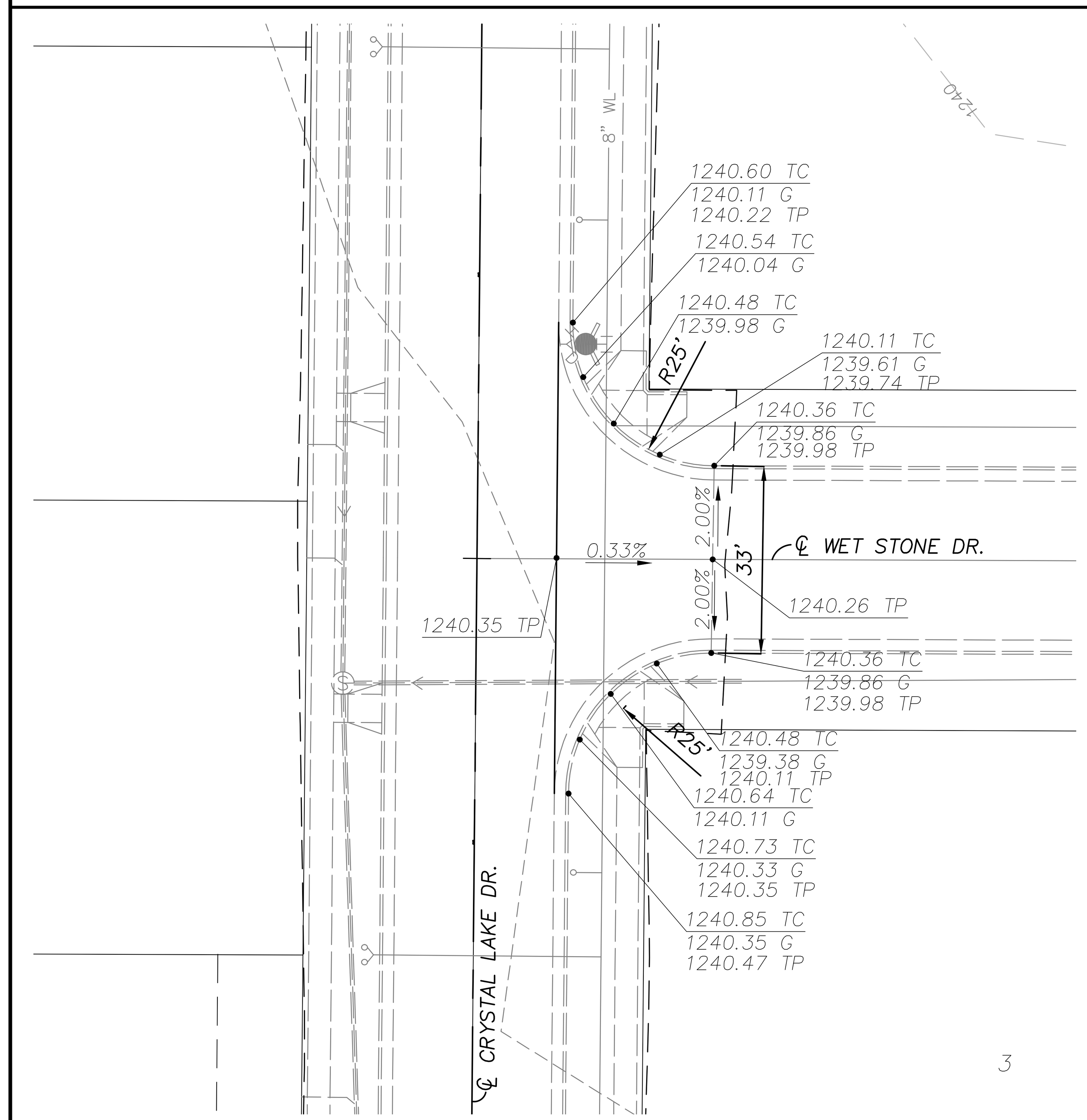
FINAL



SHORELINE DR. & CRYSTAL LAKE DR.



SHORELINE DR. & SHORELINE DR.



CRYSTAL LAKE DR. & WET STONE DR.

LEGEND

TC	Top of Curb
TP	Top of Pavement (Lip of Curb)
TI	Top of Inlet
G	Gutter
R	Radius
℄	Flow Line

SCALE IN FEET
40 0 40 80

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW Wanamaker Dr. Topeka, Kansas 66614 (785)272-4706

CFS PROJECT NO: 10-5140

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

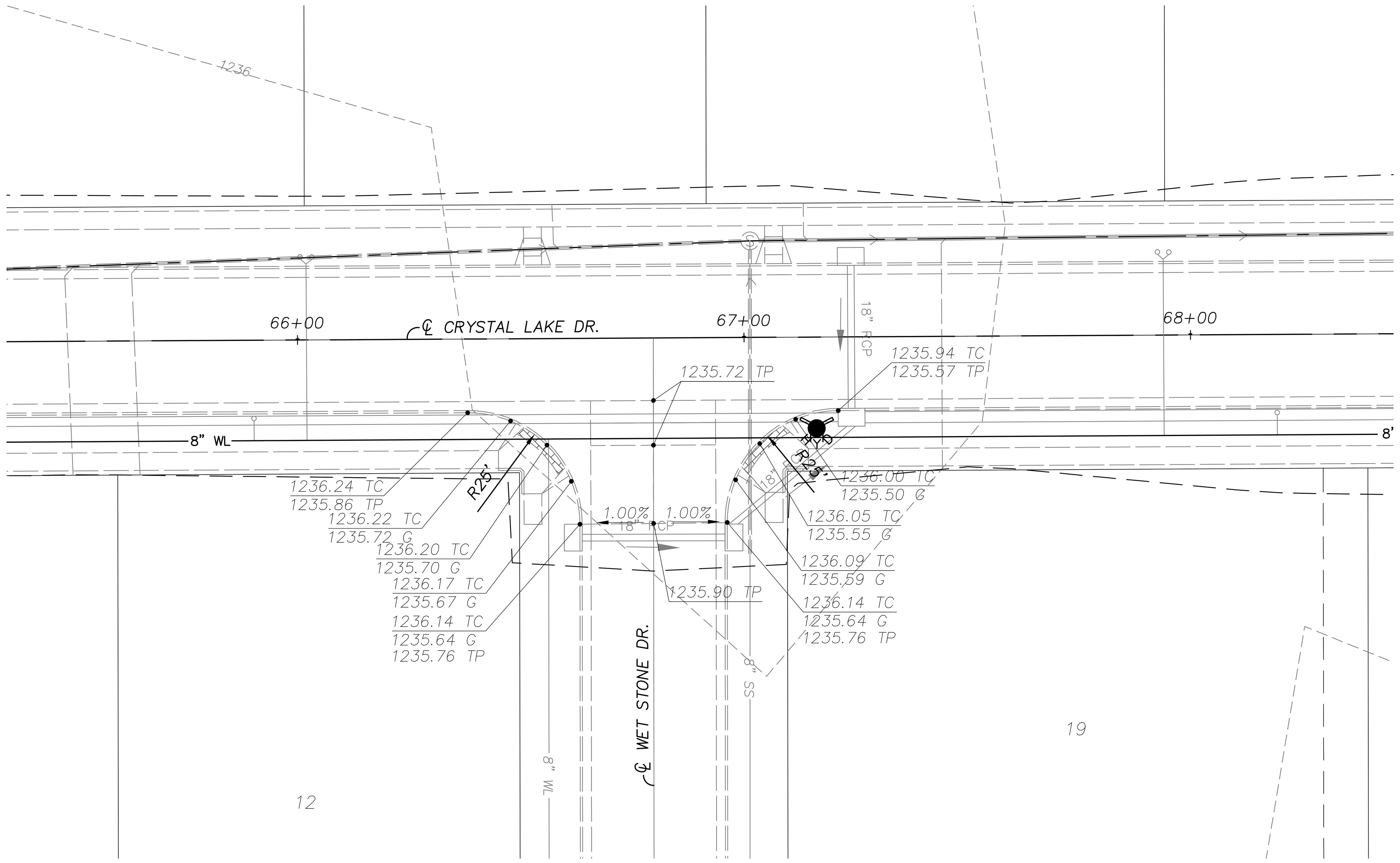
NO.	DATE	DESCRIPTION

SHEET TITLE: INTERSECTION DETAILS I

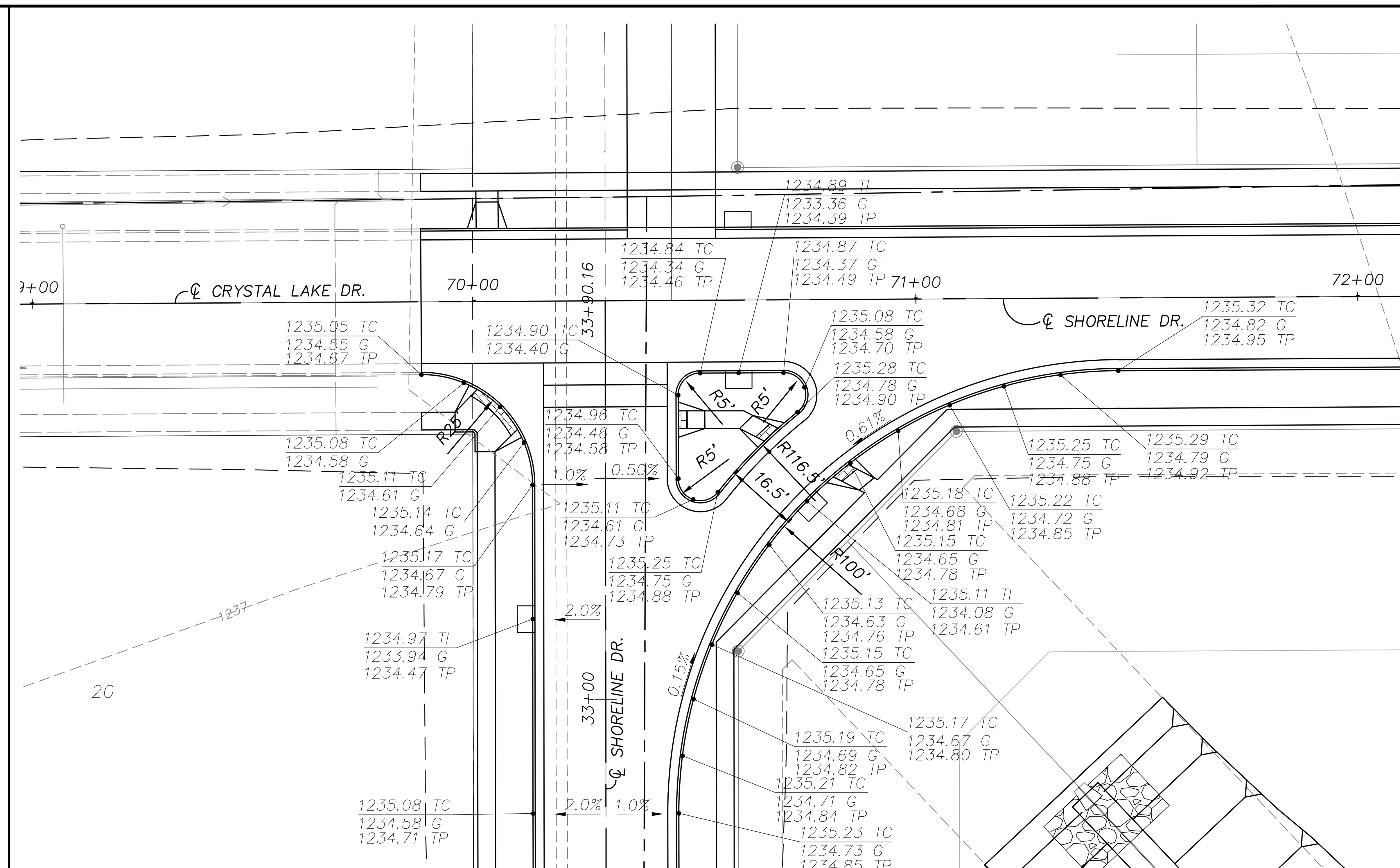
PROJECT PHASE: PHASE I

SHEET NUMBER: 23

FINAL



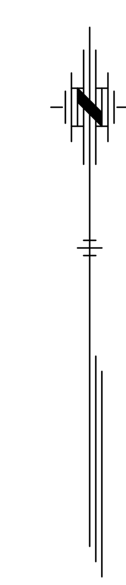
CRYSTAL LAKE DR. & WET STONE DR.



CRYSTAL LAKE DR. & SHORELINE DR.

LEGEND

TC	Top of Curb
TP	Top of Pavement (Lip of Curb)
TI	Top of Inlet
G	Gutter
R	Radius
℄	Flow Line



SCALE IN FEET

40 0 40 80

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 67401

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

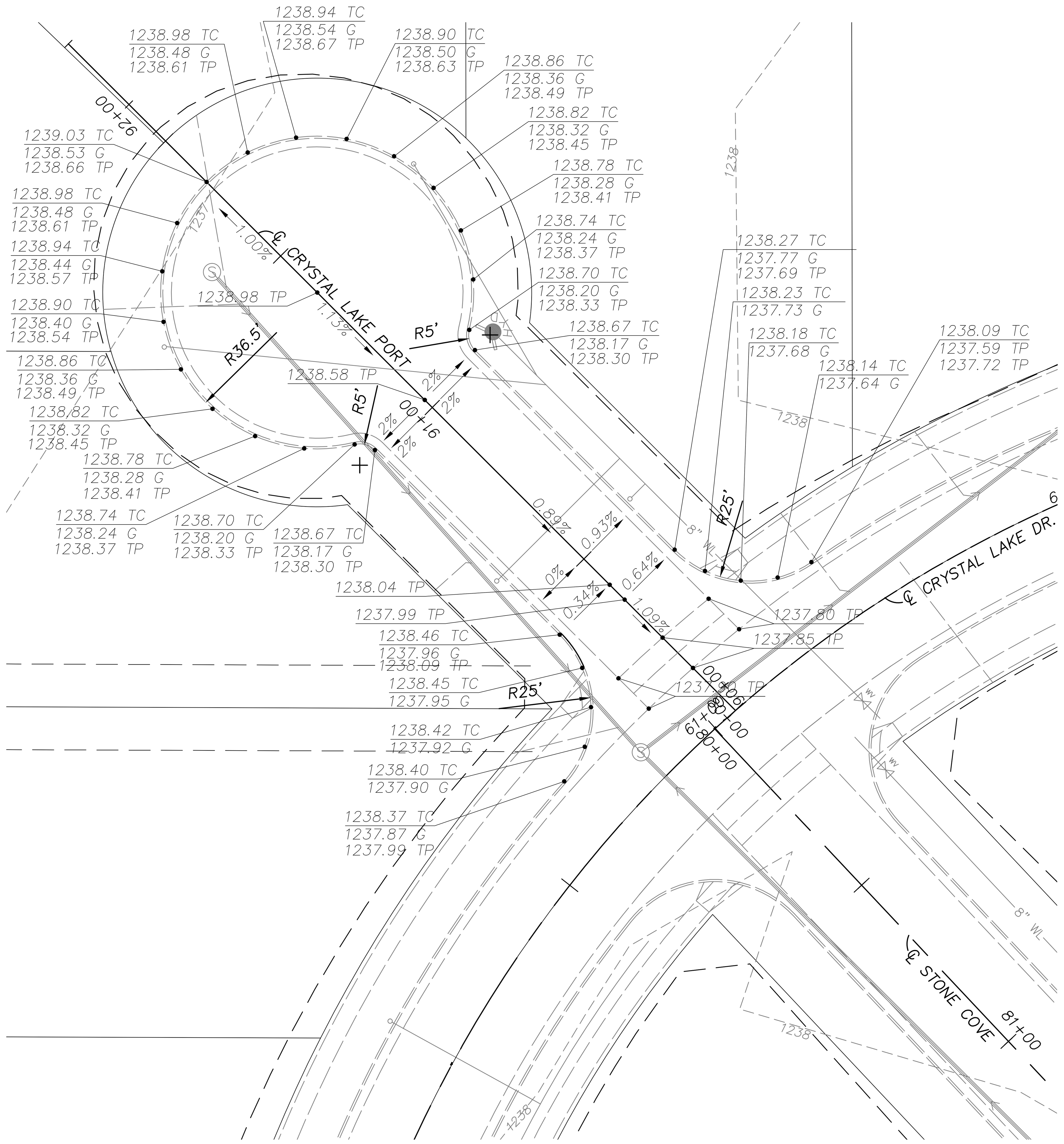
NO.	DATE	DESCRIPTION

SHEET TITLE: INTERSECTION DETAILS II

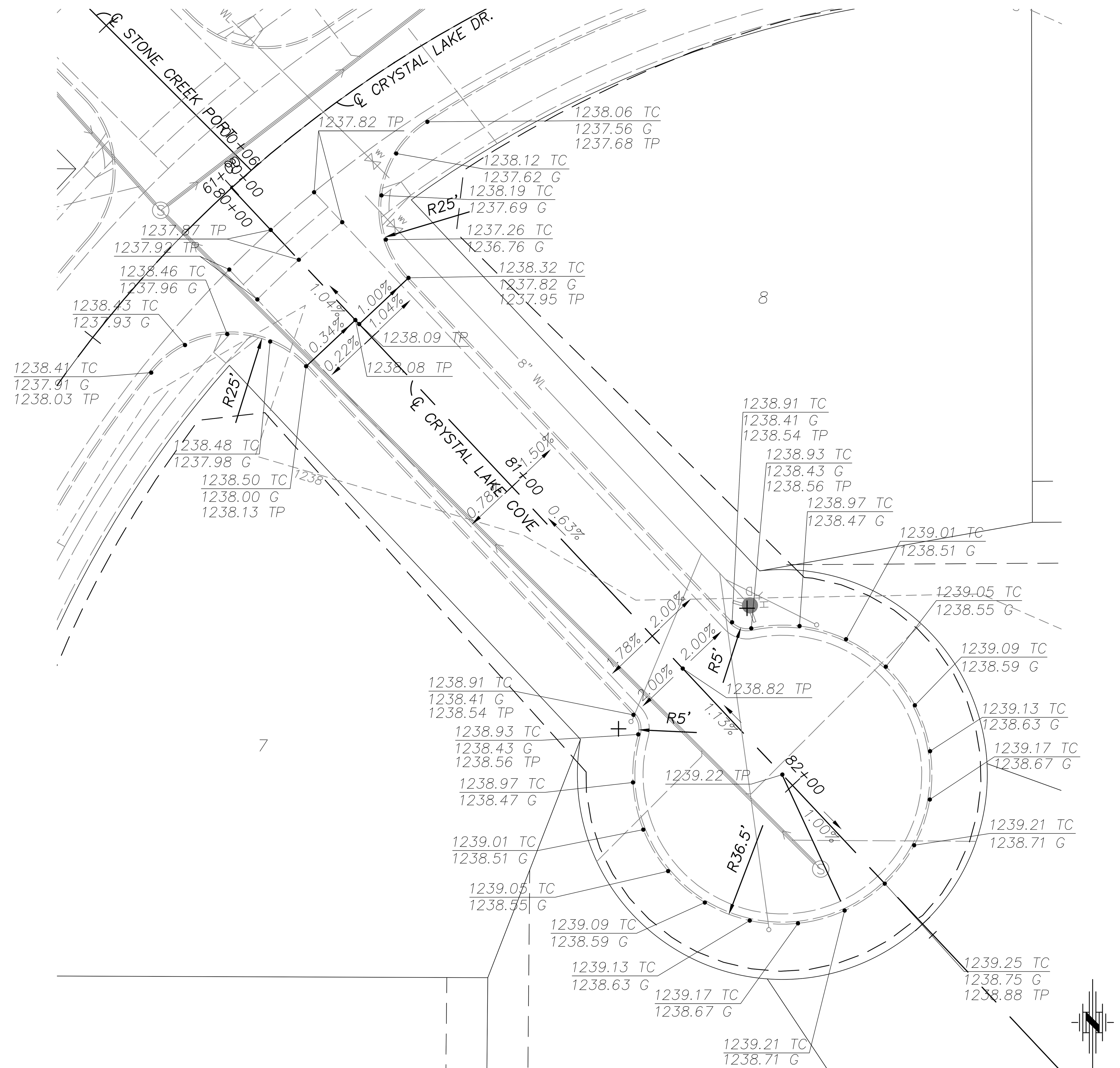
PROJECT PHASE: PHASE I

SHEET NUMBER: 24

FINAL



CRYSTAL LAKE DR. & CRYSTAL LAKE PORT



CRYSTAL LAKE DR. & CRYSTAL LAKE COVE

LEGEND

TC Top of Curb
TP Top of Pavement (Lip of Curb)
TI Top of Inlet
G Gutter
R Radius
℄ Flow Line

SCALE IN FEET
40 0 40 80

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 67401

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: KWB CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

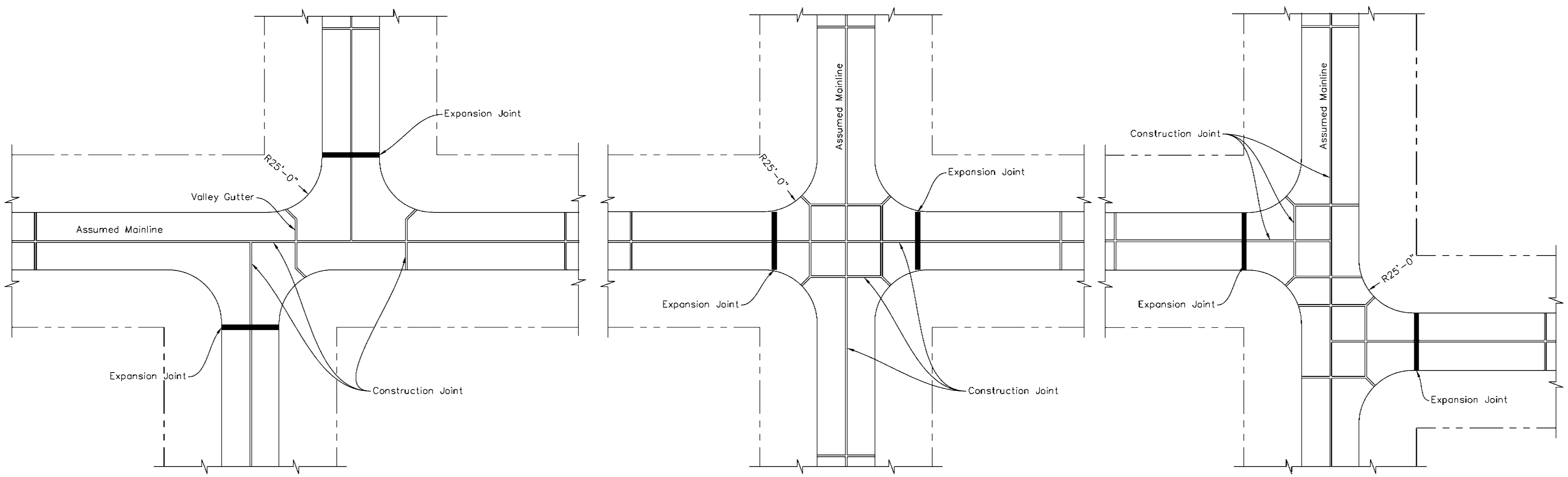
SHEET TITLE: INTERSECTION DETAILS III

PROJECT PHASE: PHASE I

SHEET NUMBER: 25

FINAL

DATE	REVISIONS



TYPICAL INTERSECTION PLAN

NOTES:

Construction Joints Shall Have Tie Bars On 2'-6" Centers

All Joints Not Otherwise Designated are Butt Construction Joints

CITY OF SALINA, KANSAS
PUBLIC WORKS – ENGINEERING – UTILITIES

STANDARD DETAILS
TYPICAL INTERSECTION w/ JOINTS

DATE: Sep 2009 | SCALE: Not to Scale | SHEET:
FILENAME: 02_Typical_Intersection_with_Joints.dwg | BY: DWK

SEAL:

DESIGNER:
CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER: Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

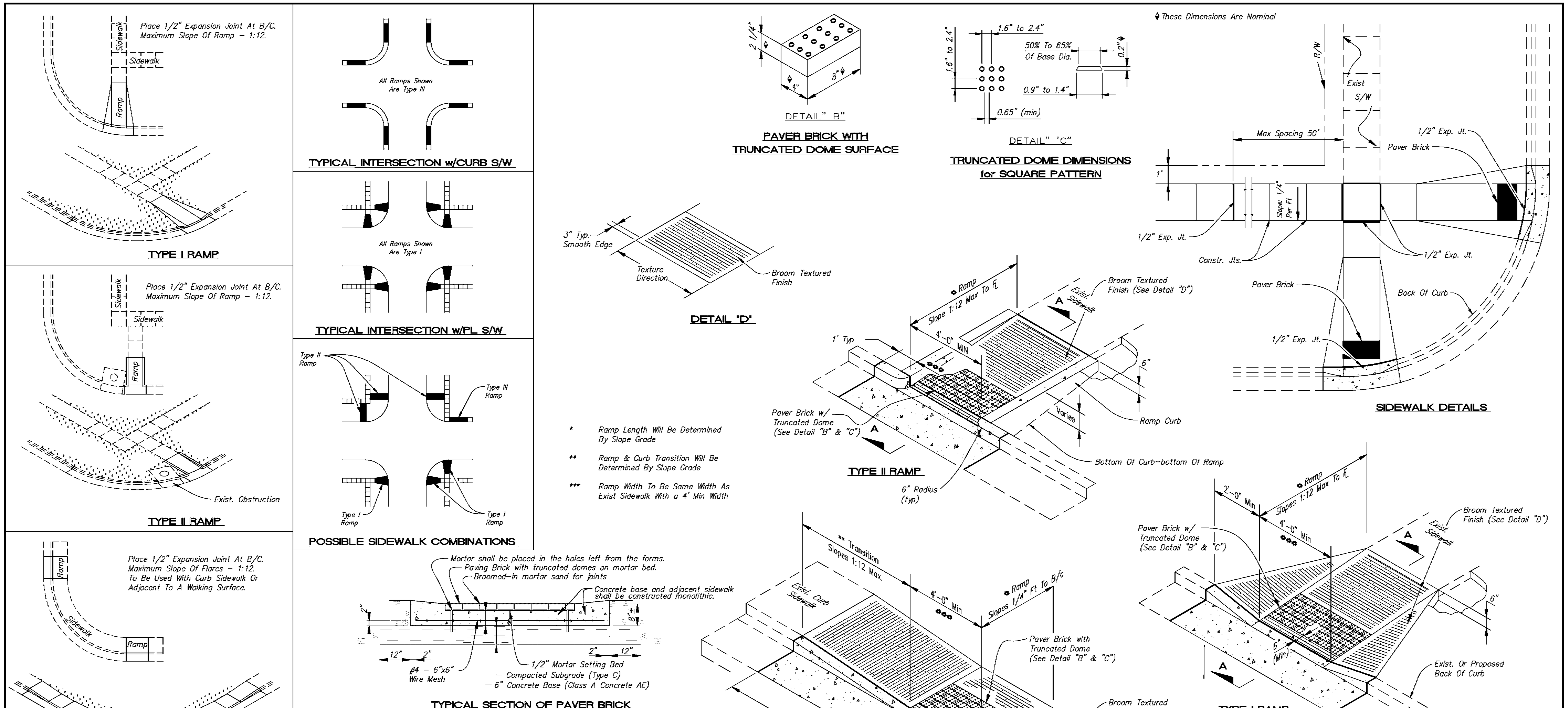
NO.	DATE	DESCRIPTION

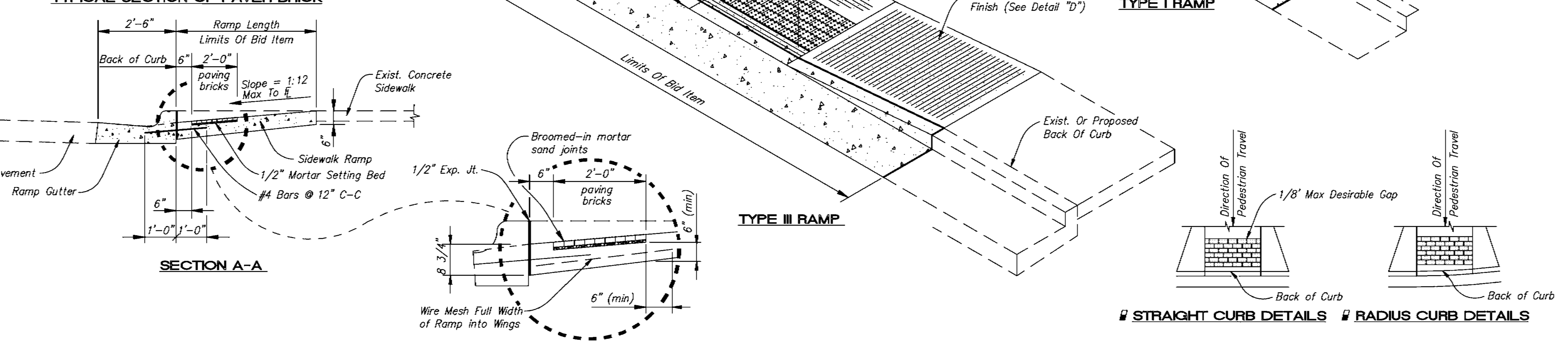
SHEET TITLE: Typical Intersection

PROJECT PHASE: PHASE I

SHEET NUMBER: 26

FINAL





GENERAL NOTES:

1. Surface texture of the ramp shall be brushed finished to the slop of the ramp.
2. Mortar shall be placed in the holes left from frames.
3. The truncated dome surface shall be a contrasting color to the adjacent surfaces.
4. The bricks shall be saw cut only and any brick shall not be less than 25% of a full brick.
5. The installation patter shown for the detectable warning paving bricks is running bond. Other patterns may be used upon the approval of the Engineer. The truncated domes on the bricks shall be placed in a parellel alignment for the direction of pedestrian travel as shown. The running bond pattern may be rotated 90° to reduce the spacing between bricks for radius installations. The spacing between bricks for radius curb installations may vary for each site. This spacing shall be kept to a minimum upon review and approval of the Engineer.

NO.	REVISIONS	DATE	BY	NO.	REVISIONS	DATE	BY

PROJECT TITLE:

STANDARD RAMP DETAILS

CITY OF SALINA
Dept. of Public Works
Engineering Division
300 WEST ASH SALINA, KANSAS 67401
PH: 785.309.5725 FAX: 785.309.5713

DESIGN: | DATE: | PROJ. NO.: | SCALE: Not to Scale
DRAWN: | FILENAME: | SHEET: OF:

SEAL:

DESIGNER:
CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

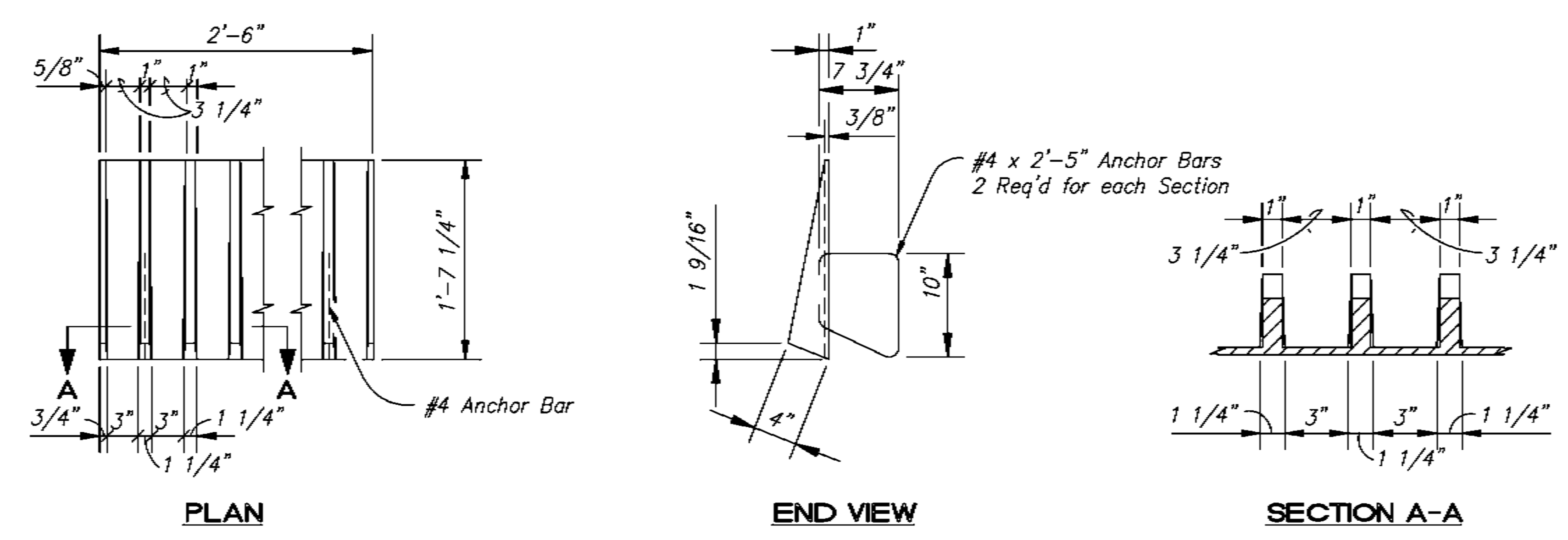
NO.	DATE	DESCRIPTION

SHEET TITLE: Standard Ramp Details

PROJECT PHASE: PHASE I

SHEET NUMBER: 27

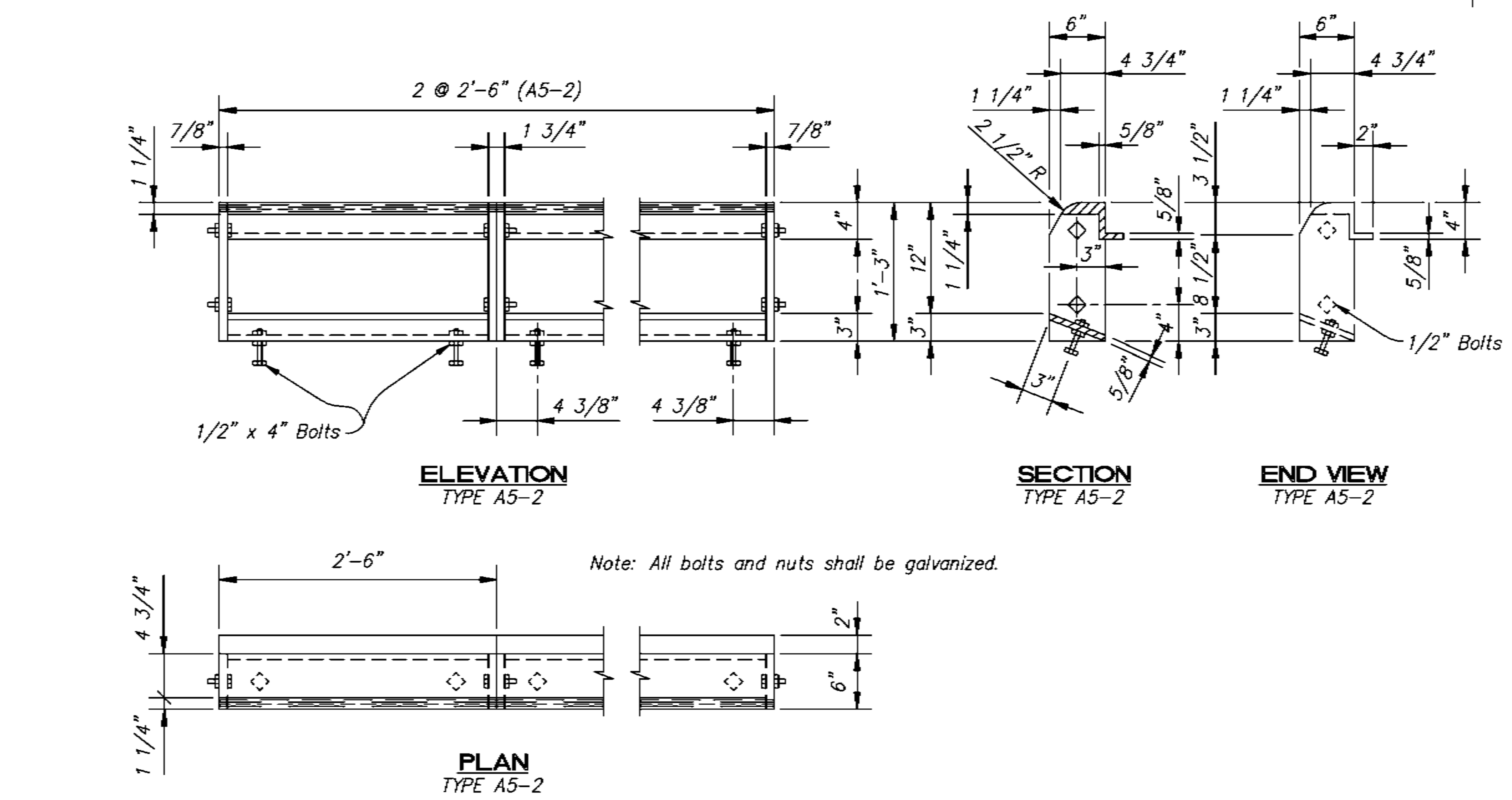
FINAL



DETAILS OF GUTTER CASTING (IRON)

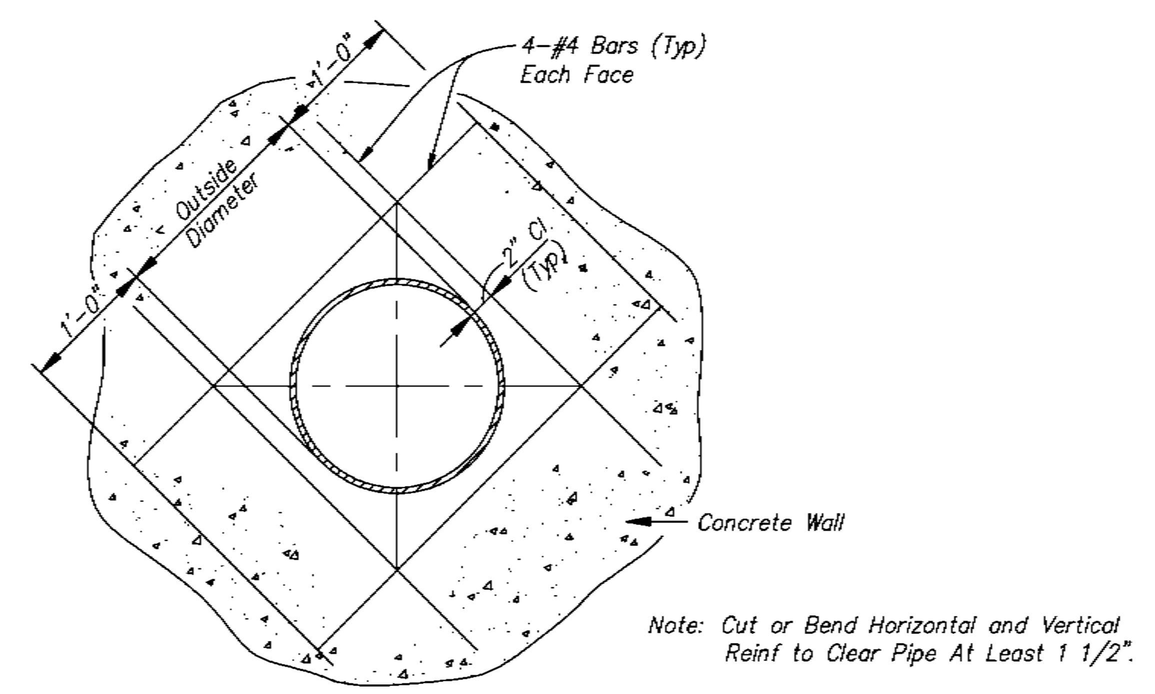
Weight = 132 Lbs. per 2'-6" section.

Note: #4 Anchor bars (reinforcing bars) to be cast in gutter casting.

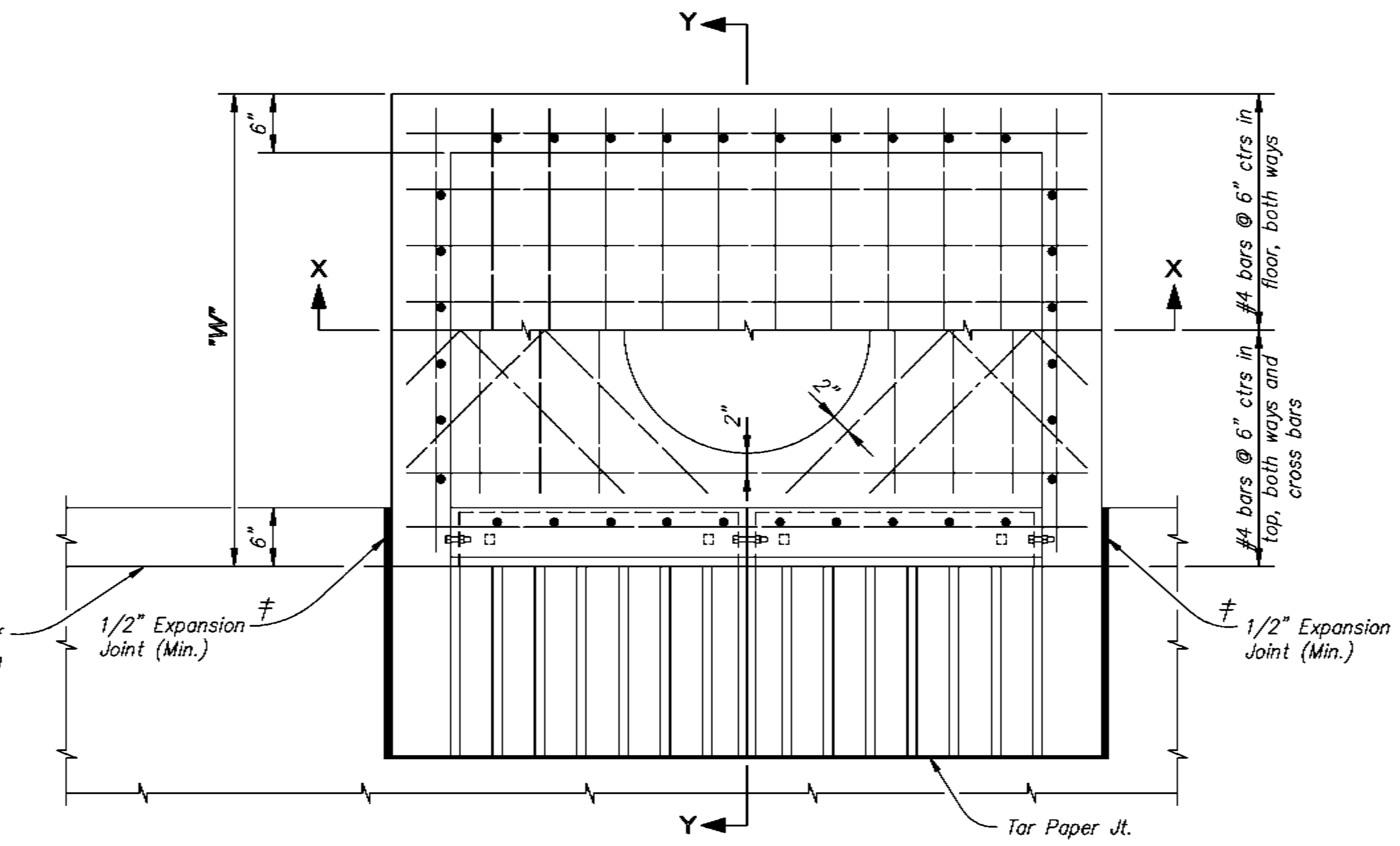


DETAILS OF CURB CASTING (IRON)

Weight = 129 Lbs. per 2'-6" section.

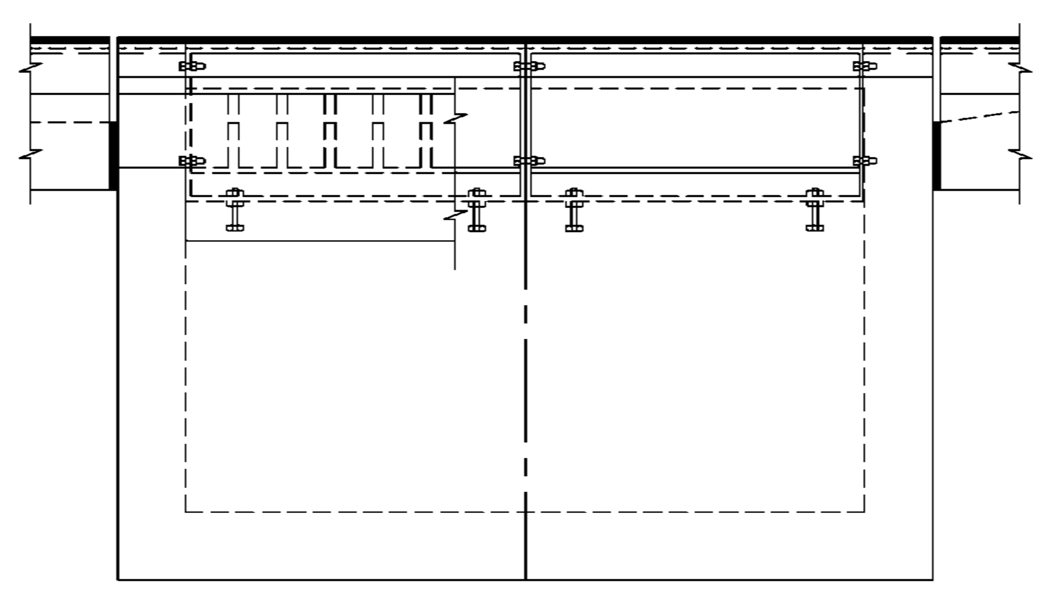


AT OPENING & PIPE LOCATION

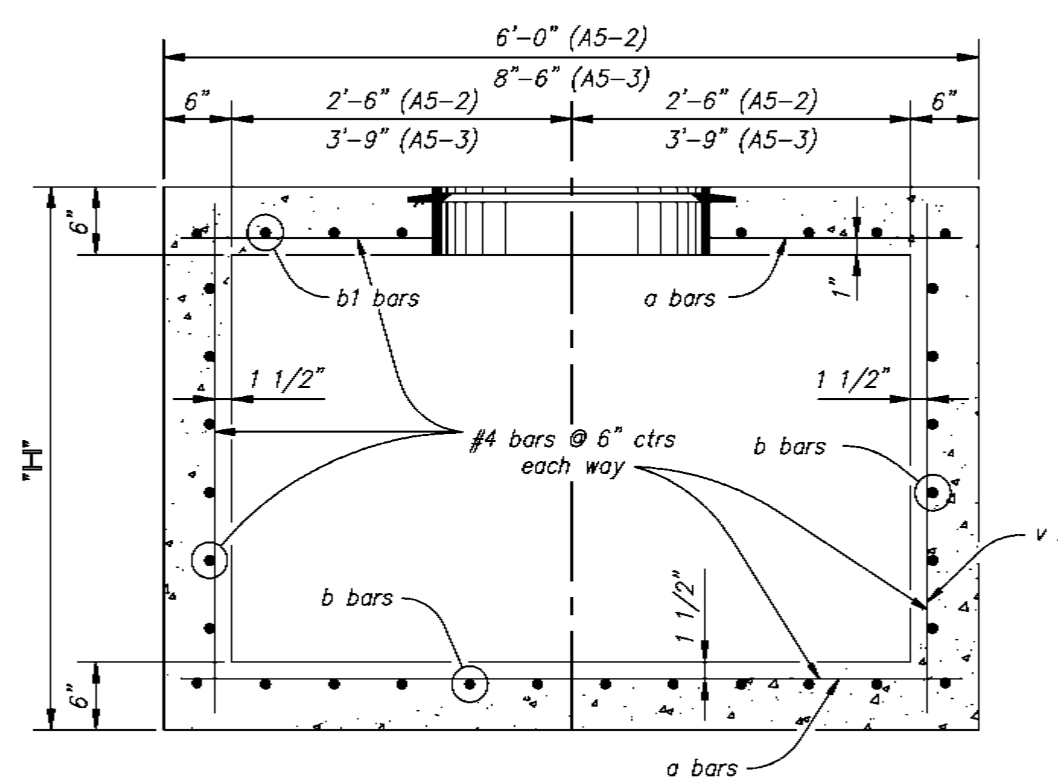


PLAN

† Hot or cold poured joint sealing compound or Premoulded Expansion Joint Filler (Nonextruding, Type B).



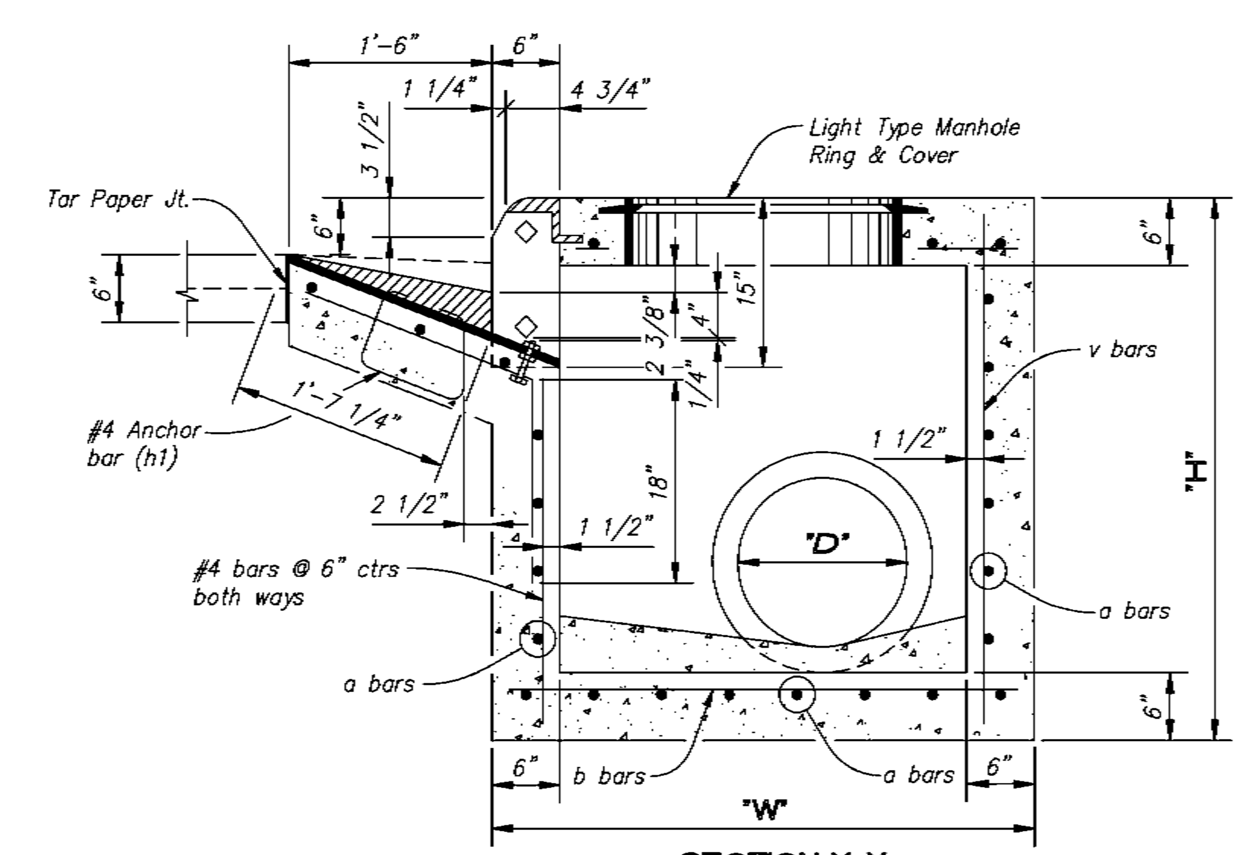
FRONT ELEVATION



SECTION X-X

INLET DATA						
INLET NO.						
STATION						
SIDE						
FL ELEV.						
T.C. ELEV.						
TYPE						
RADIUS						
"H"						
"W"						
"D"						

SEE SUMMARY OF QUANTITIES SHT.



SECTION Y-Y

NOTES

1. All bolts and nuts shall be galvanized.
2. All castings shall be gray iron and shall comply with ASTM A-48, Class 25 S.
3. Weights given are total weights for Curb Castings only. All weights of castings are calculated weights with no allowance for fillets, overruns, anchor bars and bolts.
4. No subsitutions of design will be permitted on castings.

Note: All structures within roadway shall be backfilled with non-excavatable flowable fill mix, 95%.

Note: Use 4,000 P.S.I. concrete throughout and bevel all exposed edges with a 3/4" triangular moulding. No deductions in concrete quantities shall be made for pipe openings. Reinforcing steel shall be bent around pipe.

NOTE:
5' curb & gutter transition section each side of inlet shall be included in the price of the inlet.

*** Included in pay length of pipe

NO.	REVISIONS	DATE	BY	NO.	REVISIONS	DATE	BY
							FEB 8, 2005

PROJECT TITLE: STANDARD DETAILS - TYPE "A" CURB INLET

CITY OF SALINA
Dept. of Public Works
Engineering Division
300 WEST ASH SALINA, KANSAS 67401
PH: 785.309.5725 FAX: 785.309.5713

DESIGN: DATE: PROJ. NO.: SCALE: Not to Scale
DRAWN: FILENAME: SHEET: OF:

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

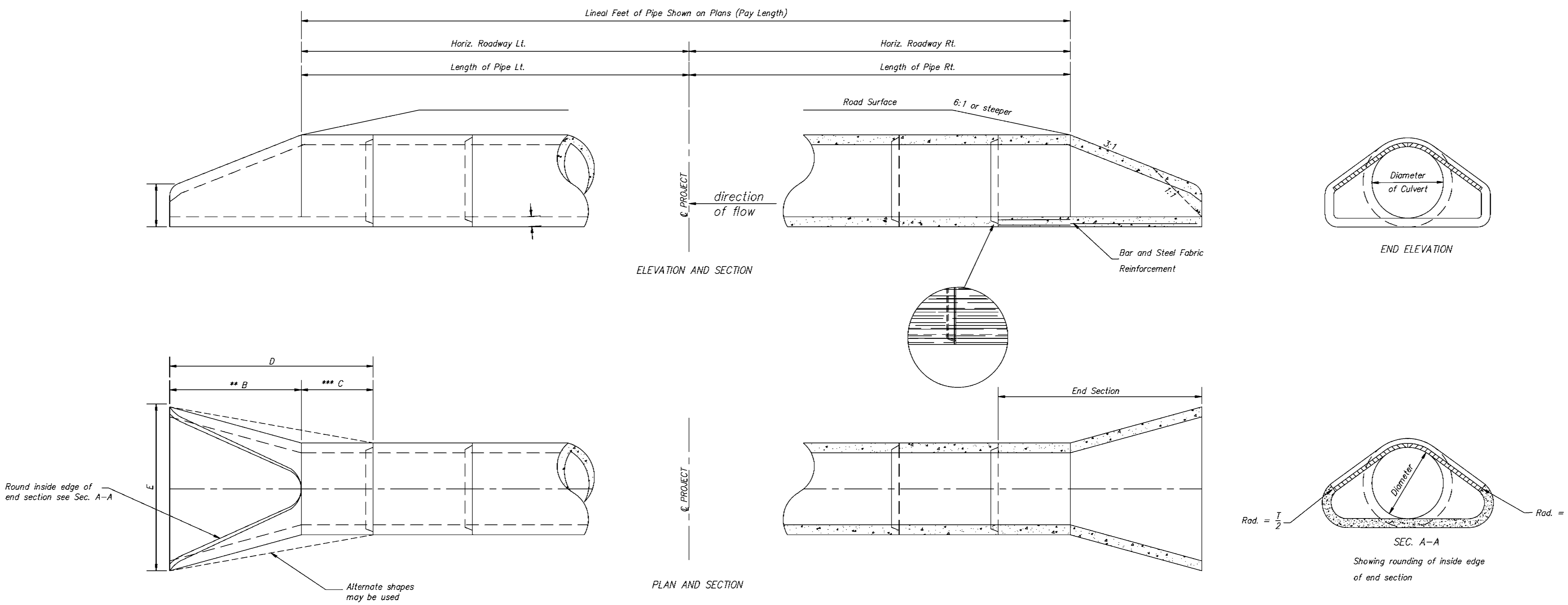
NO.	DATE	DESCRIPTION

SHEET TITLE: Type A Curb Inlet Details

PROJECT PHASE: PHASE I

SHEET NUMBER: 28

FINAL



NOTE: The culverts listed on this sheet may or may not indicate that the culvert installed will be reinforced concrete, steel, or aluminum.

Diam.	* WT./Sec. Pounds	Slope	A	** B	***C	D	E	T
12"	530	3 : 1	4"	2'–0"	4'–0 7/8"	6'–0 7/8"	2'–0"	2"
15"	740	3 : 1	6"	2'–3"	3'–10"	6'–1"	2'–6"	2 1/4"
18"	990	3 : 1	9"	2'–3"	3'–10"	6'–1"	3'–0"	2 1/2"
24"	1520	3 : 1	9 1/2"	3'–7 1/2"	2'–6"	6'–1 1/2"	4'–0"	3"
30"	2190	3 : 1	1'	4'–6"	1'–7 3/4"	6'–1 3/4"	5'–0"	3 1/2"
36"	4100	3 : 1	1'–3"	5'–3"	2'–10 3/4"	8'–1 3/4"	6'–0"	4"
42"	5380	3 : 1	1'–9"	5'–3"	2'–11"	8'–2"	6'–6"	4 1/2"
48"	6550	3 : 1	2'–0"	6'–0"	2'–2"	8'–2"	7'–0"	5"

* Weight may vary for alternate shapes
** Paid for as seperate item "End Sections"
*** Included in pay length of pipe

PIPE CULVERT SUMMARY

STATION	LOCATION	TYPE	SIZE	CROWN GRADE ELEV	FLOW LINE LT	FLOW LINE RT	HORIZONTAL ROADWAY LT	HORIZONTAL ROADWAY RT	DEGREE OF ROTATION	LENGTH OF PIPE LT	LENGTH OF PIPE RT	LIN. FT. OF PIPE	NO. OF END SECTS
11+48.50	ST. SWR. # 1	RCP	30"			1227.50		128.93'	—	—	110'	110'	1
11+55.66	ST. SWR. #2	RCP	30"			1229.00		107.10'	—	—	86'	86'	1
21+50.00	ST. SWR. #3	RCP	24"		1230.98		192.88'		—	—	189'	189'	1

PROJECT TITLE:

CONCRETE END SECTIONS FOR CONCRETE PIPES TYPE I (ROUND)

NO.	REVISIONS	DATE	BY	NO.	REVISIONS	DATE	BY
							8 FEB 2005

CITY OF SALINA
Dept. of Public Works
Engineering Division
300 WEST ASH SALINA, KANSAS 67401
PH: 785.309.5725 FAX: 785.309.5713

DESIGN: DATE: PROJ. NO.: SCALE: Not to Scale
DRAWN: FILENAME: SHEET: OF:

SEAL:

DESIGNER:
CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

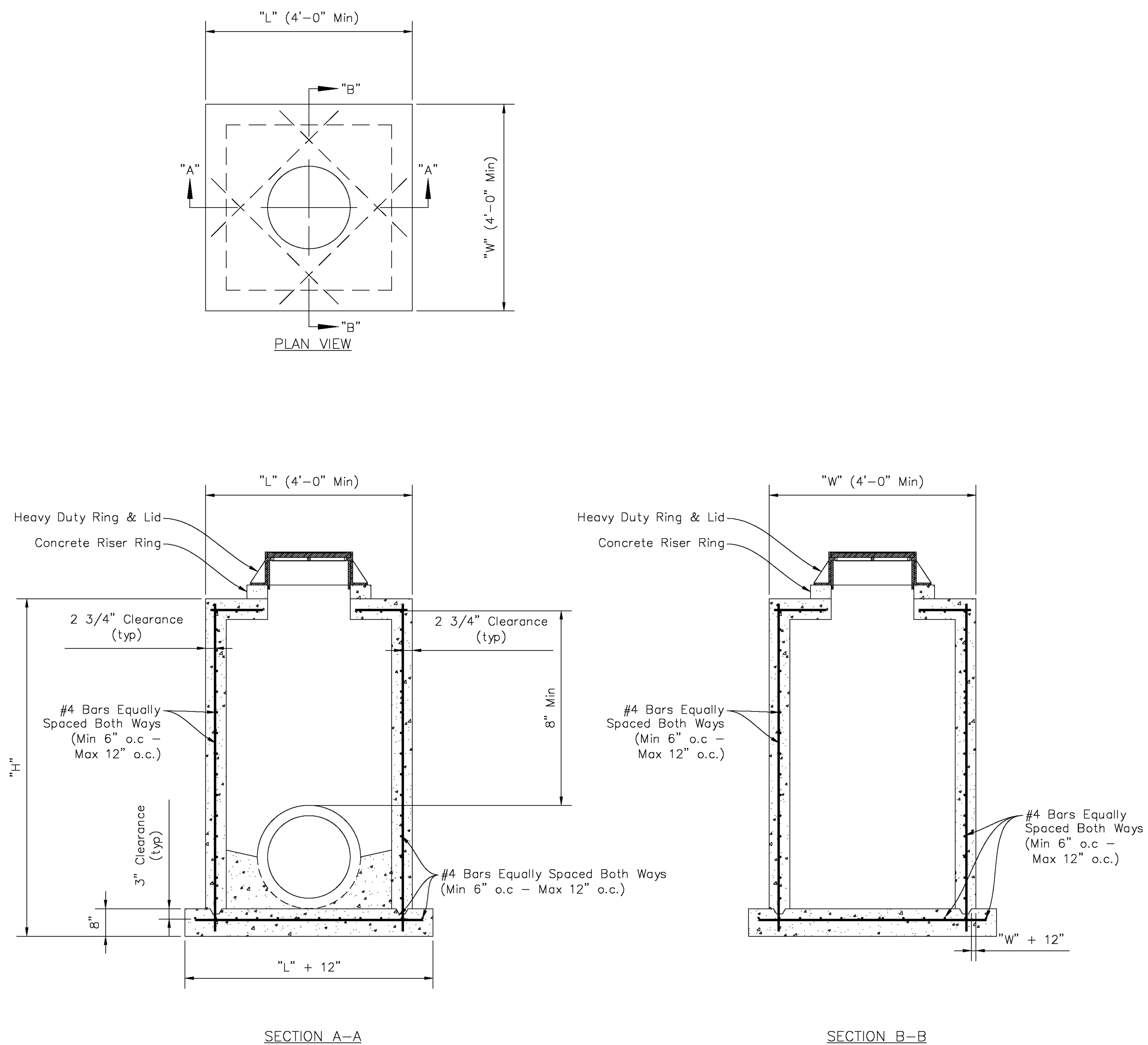
SHEET TITLE: Concrete End Sections For Concrete Pipe

PROJECT PHASE: PHASE I

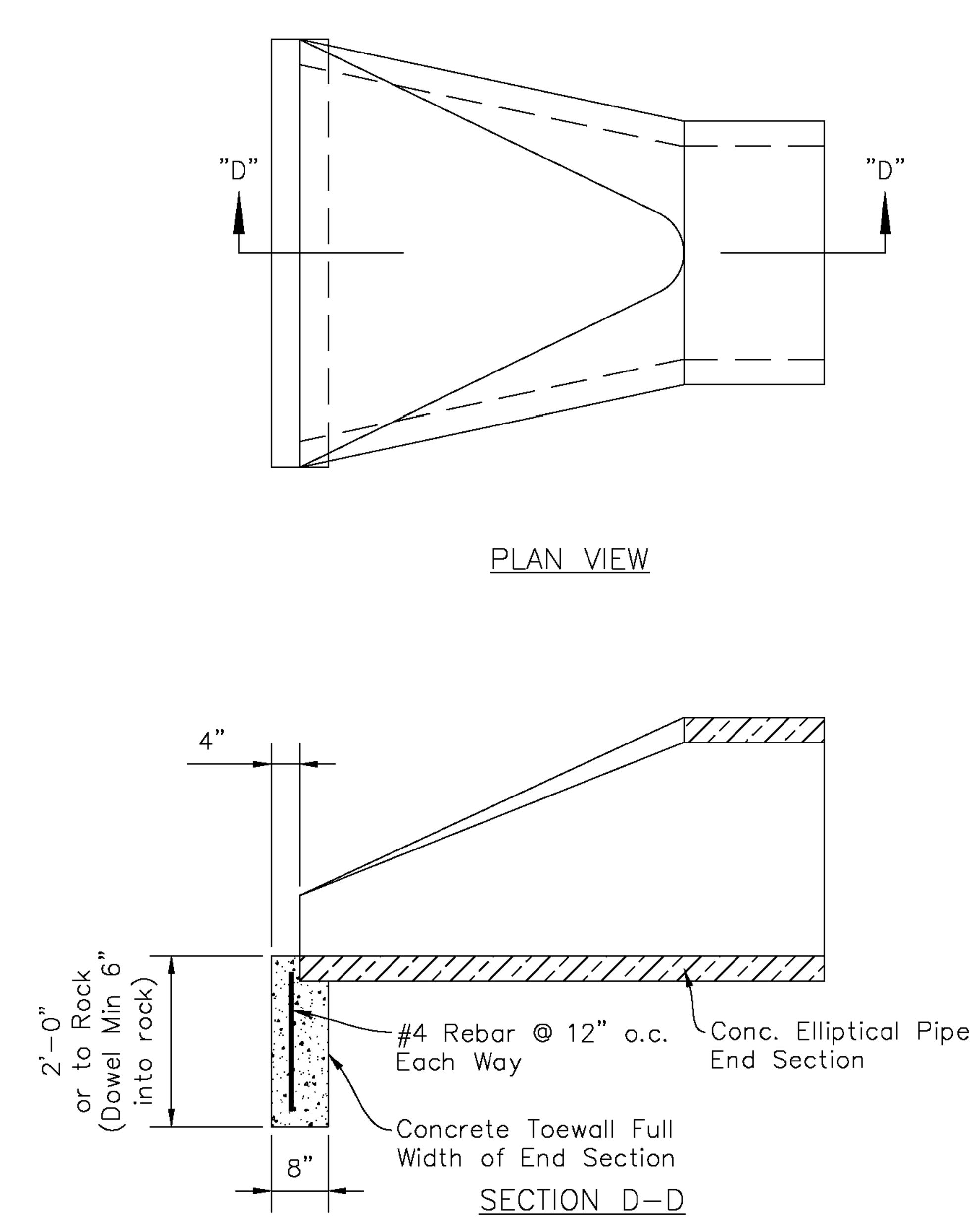
SHEET NUMBER: 29

FINAL

DATE	REVISIONS



JUNCTION BOX DETAILS



Note:

The last three joints of RCP, including the end section, shall be mechanically restrained where discharging into unimproved systems

END SECTION TOEWALL DETAILS

NOTES:

General

1. All storm sewer structures shall be pre-cast or poured in place. If pre-cast is used, the tops shall be left exposed to a height 2 below the finish top elevation, or as directed by the City Engineer.

2. Pre-cast shop drawings are to be approved by the City Engineer for publicly financed or administered projects. Pre-cast shop drawings for privately financed projects are to be submitted to the Engineering Division of the Public Works Department.

3. Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the City Engineer prior to construction.

4. On-grade inlets shall conform to the street grade and sump inlets shall be level.

5. The first dimension listed in the construction notes is the L dimension. The second dimension is the W dimension. The concrete thickness and reinforcement shown is for boxes with (L + W) and (W + H) less than or equal to 20. For boxes with either of these calculations greater than 20, a special design is required.

Concrete

6. Concrete used in this work shall comply to all composition, quality, product control, and handling (stockpile) requirements from the latest version of Section 401 of the Kansas Department of Transportation Standards Specifications, and shall meet the requirements of the City of Salina code.

7. Concrete construction shall meet the applicable requirements of the Standard Specifications for State Road and Bridge Construction, Kansas Department of Transportation, latest edition, except as modified in the City of Salina code.

8. Inlet floors shall be shaped with non-reinforced concrete inverts to provide smooth flow.

9. Bevel all exposed edges with 3/4 triangular molding.

Reinforcing Steel

10. Reinforcing Steel shall be new billet, minimum Grade 60 as per ASTM A615M, and shall be bent cold.

11. All dimensions relative to reinforcing steel are to centerline of bars. 2 clearance shall be provided throughout unless noted otherwise. Tolerance of +/- 1/8 shall be permitted.

12. All lap splices not shown shall be a minimum of 40 bar diameters in length.

13. All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0 maximum spacing.

14. All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels into fresh or partially hardened concrete will not be acceptable.

Construction

15. The bottom slab shall be at least 24 hours old before placing sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewalls are poured before removal, and after removal shall be immediately treated with membrane curing compound.

16. All curb inlet tops are to be constructed after final curb string line has been approved by the Engineer and prior to curb construction, or as directed by the City Engineer.

17. Pipe connections to pre-cast structures shall have a minimum of 6 concrete around the entire pipe within 2 of the structure.

18. Material selection and compaction requirements for backfill around structures shall be as specified in the project specifications.

CITY OF SALINA, KANSAS
PUBLIC WORKS – ENGINEERING – UTILITIES

STANDARD DETAILS
TOEWALL/JUNCTION BOX DETAILS

DATE: Sep 2009	SCALE: Not to Scale	SHEET:
FILENAME: 08_Storm_Toewall_Junction _Box_Details.dwg	BY: DMK	

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

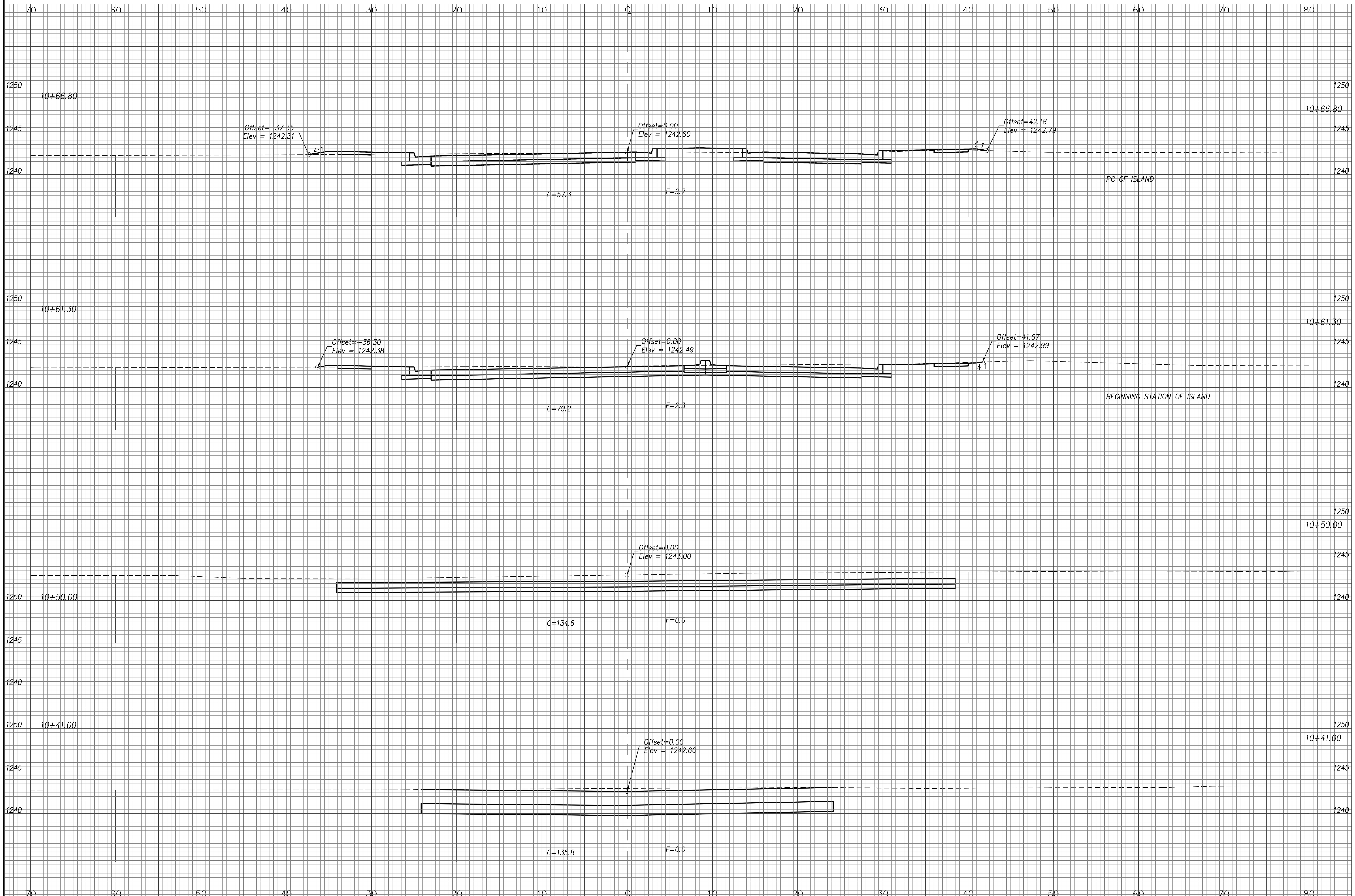
NO.	DATE	DESCRIPTION

SHEET TITLE: Toewall/Junction Box Details

PROJECT PHASE: PHASE I

SHEET NUMBER: 30

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

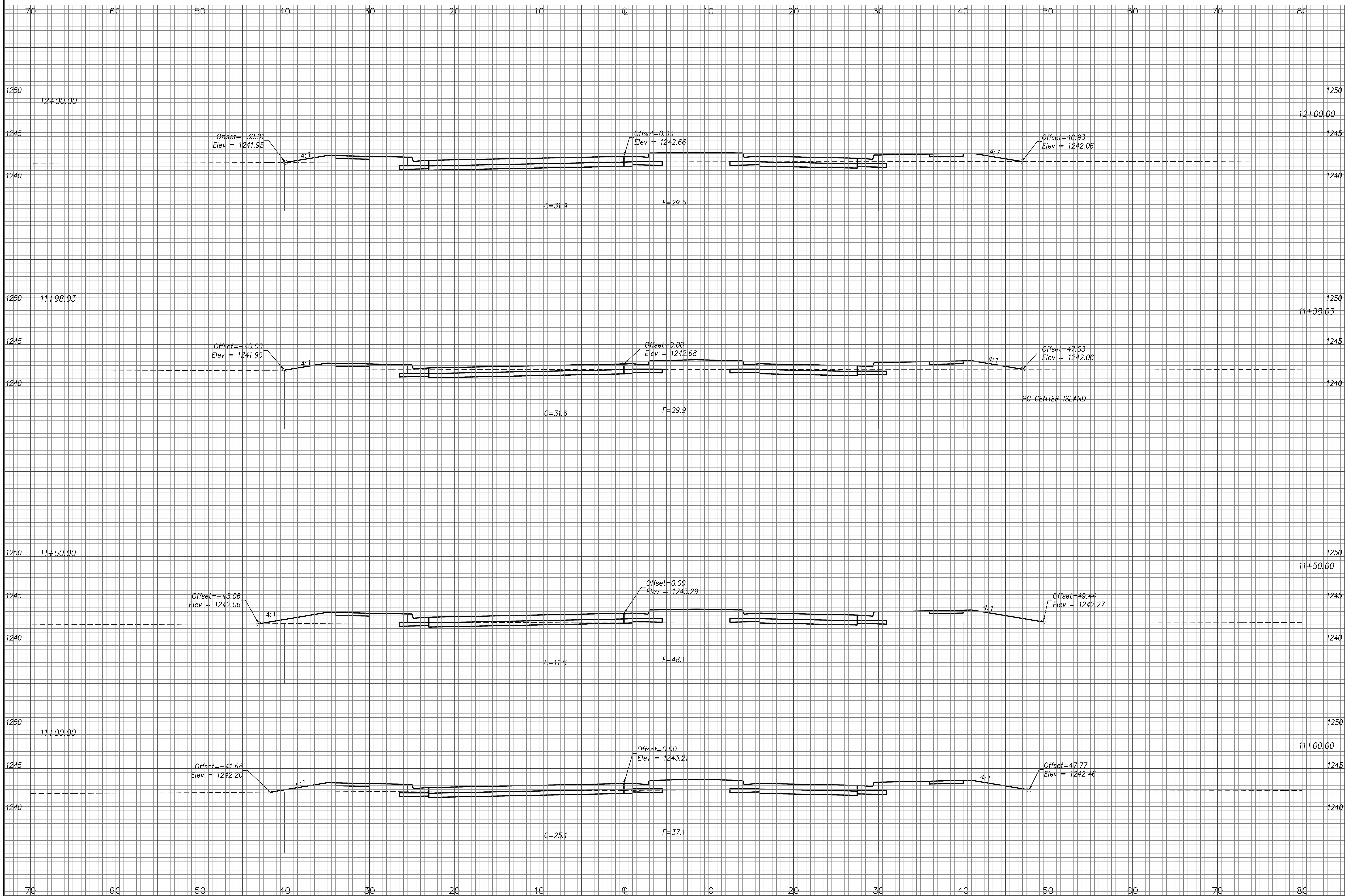
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
31

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

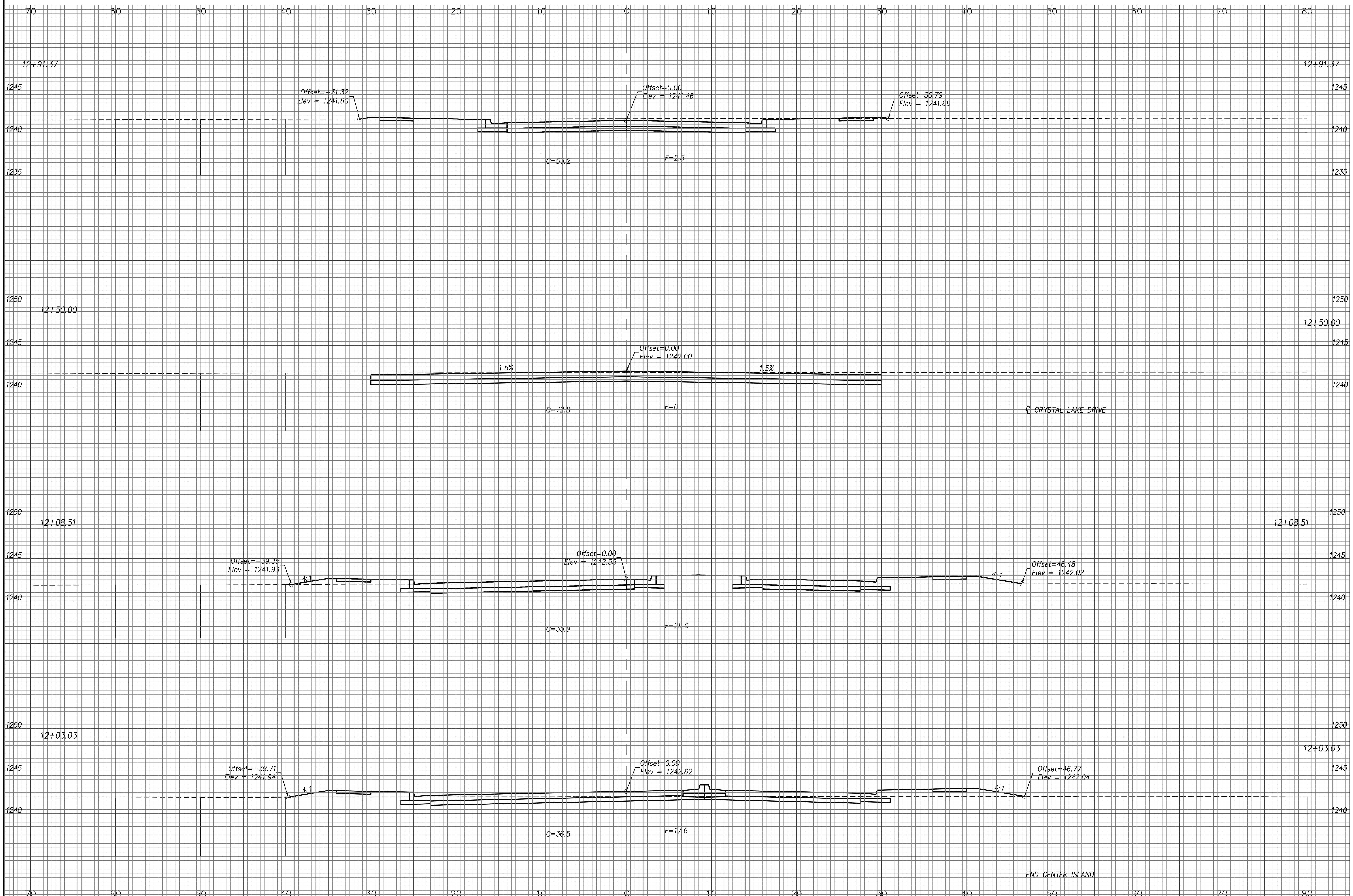
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 32

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

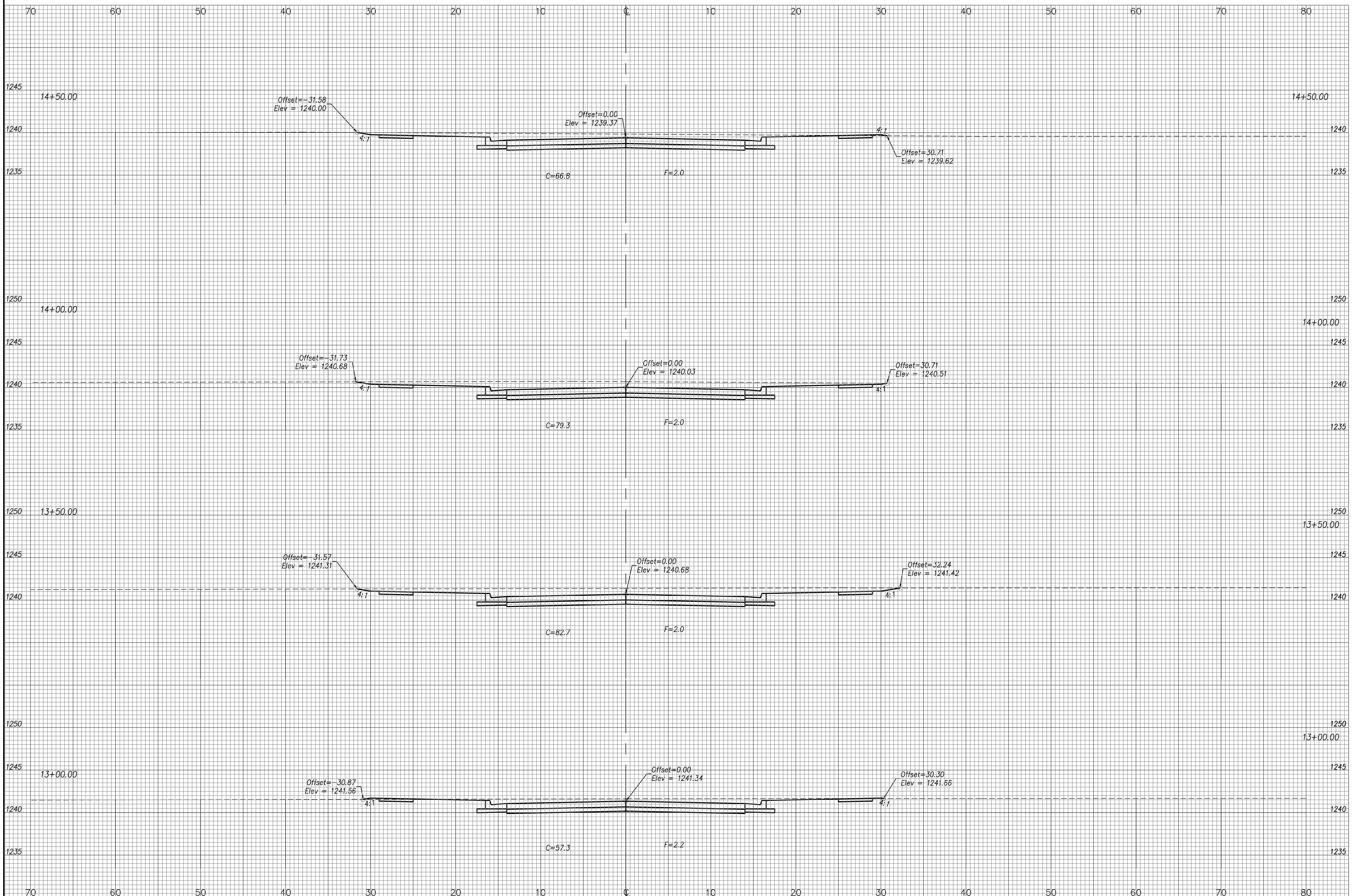
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 33

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

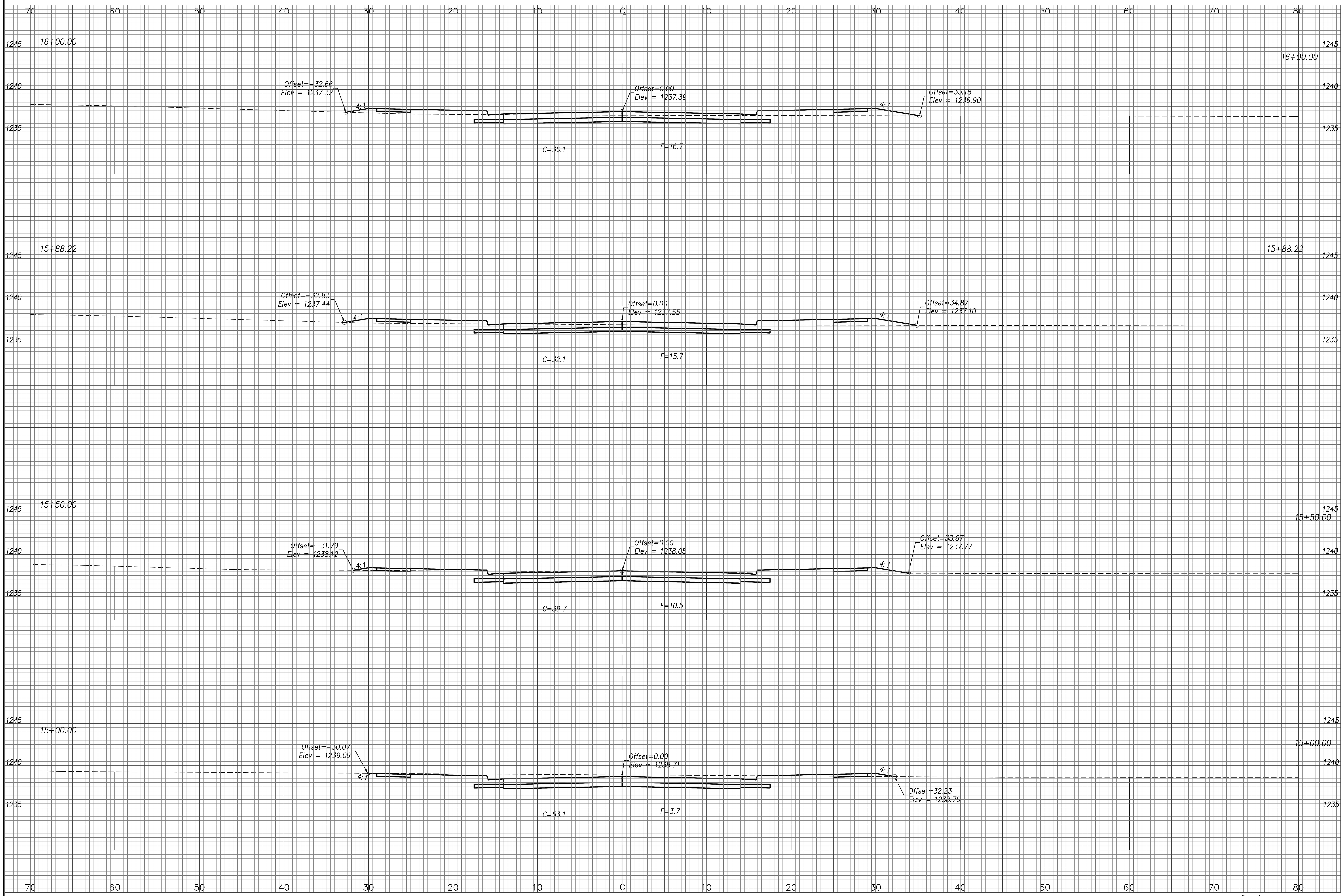
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
34

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
E N G I N E E R S , P. A.

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

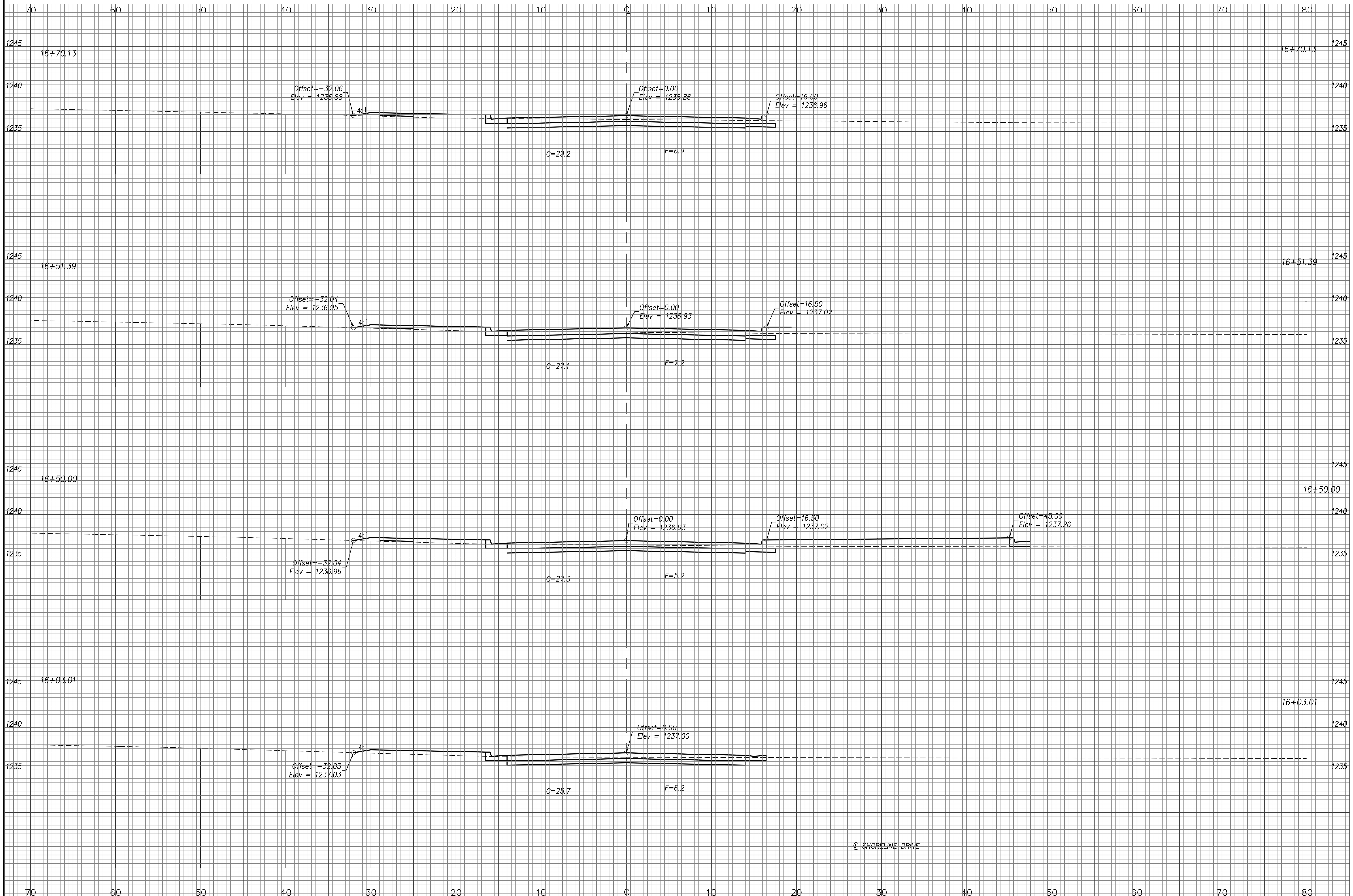
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
35

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

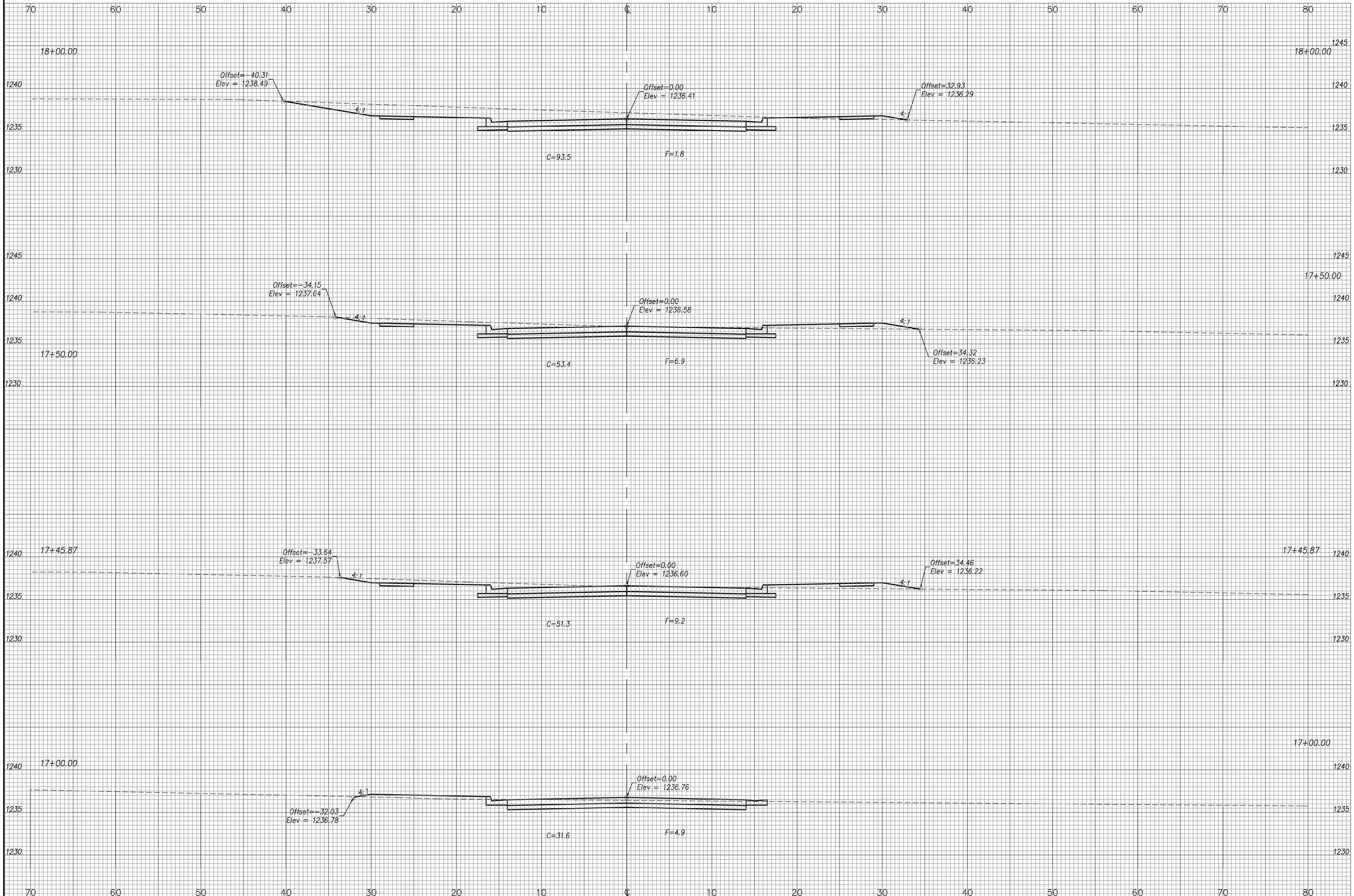
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
36

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

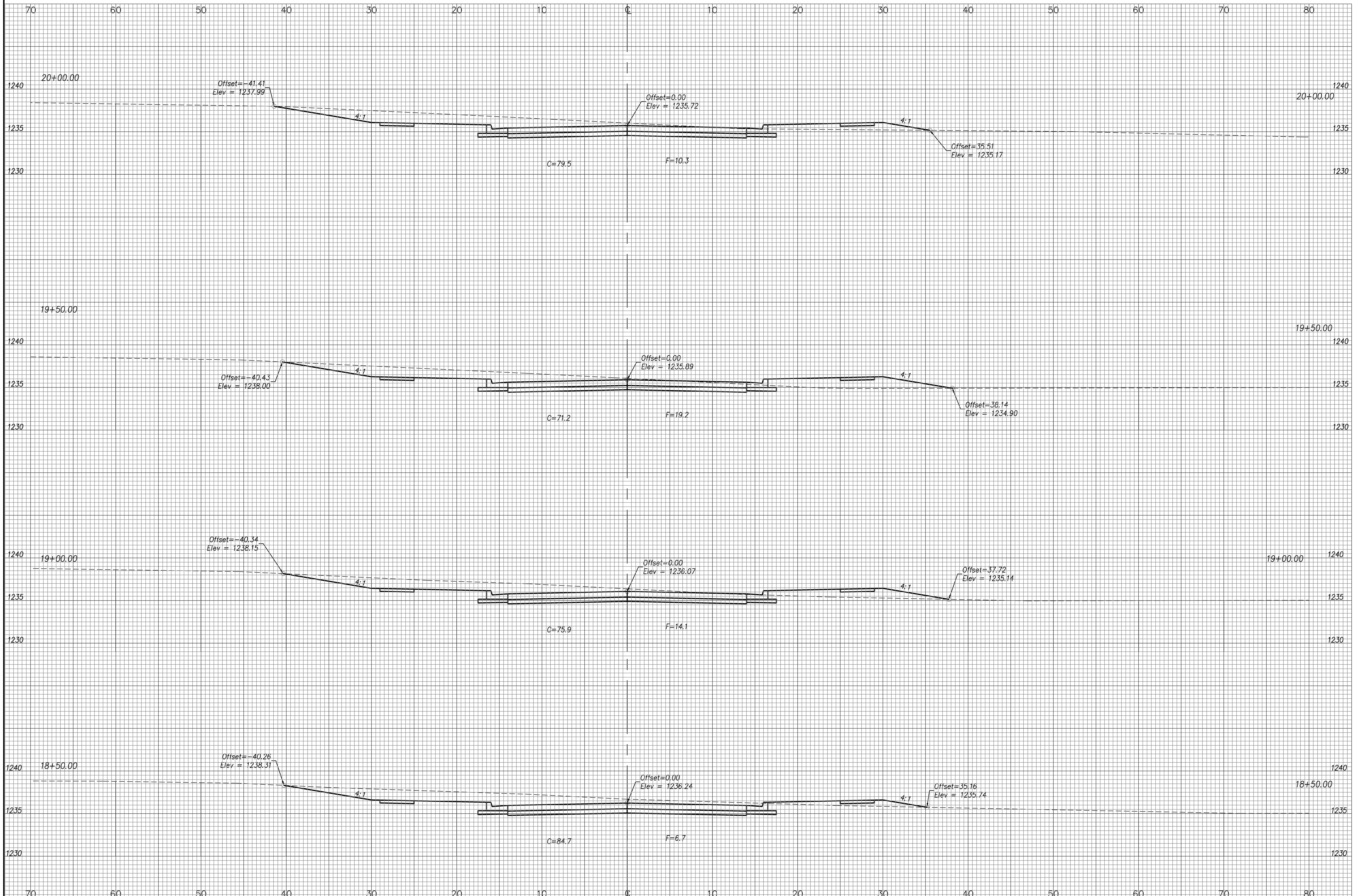
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 37

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

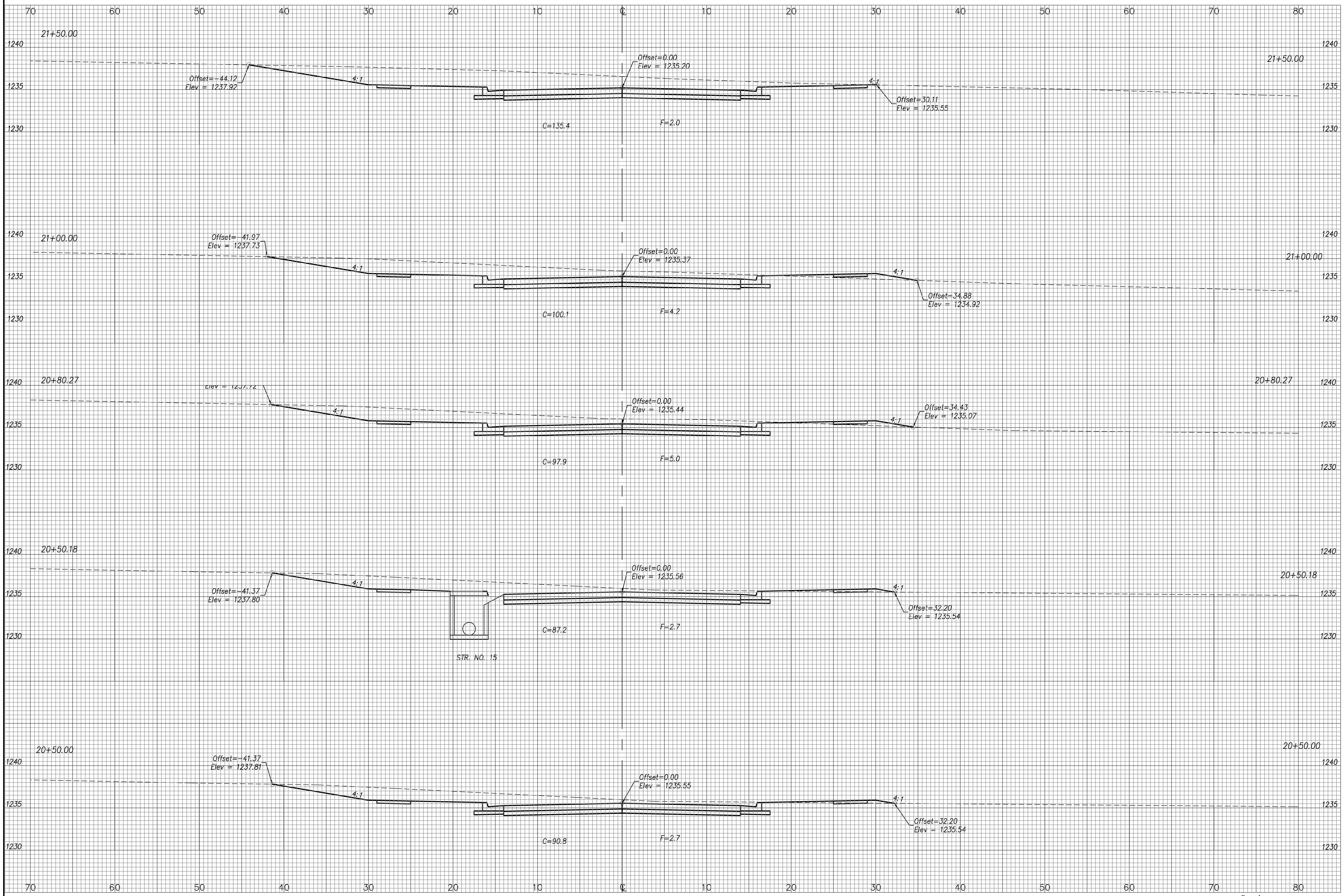
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
38

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

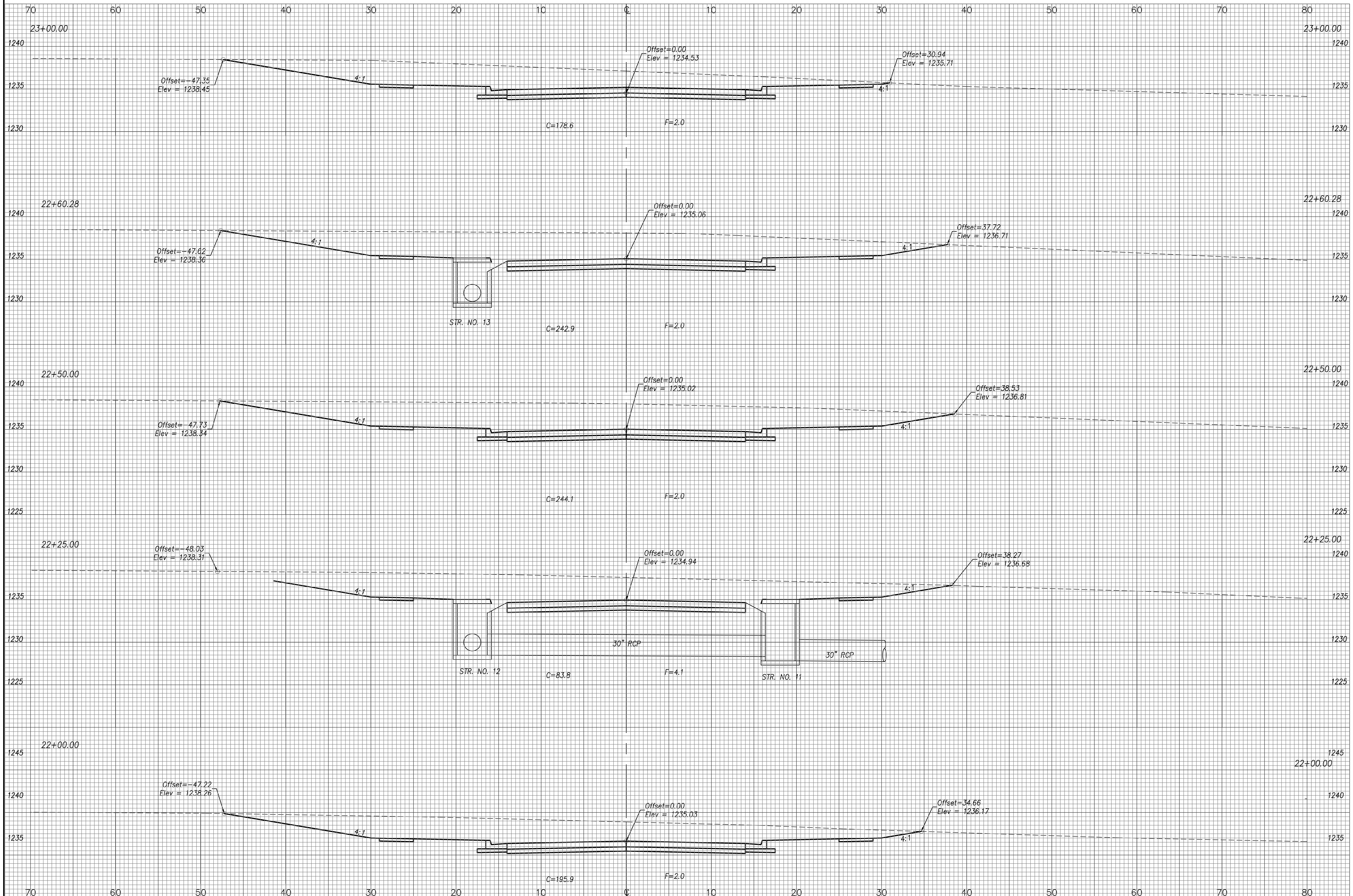
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
39

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

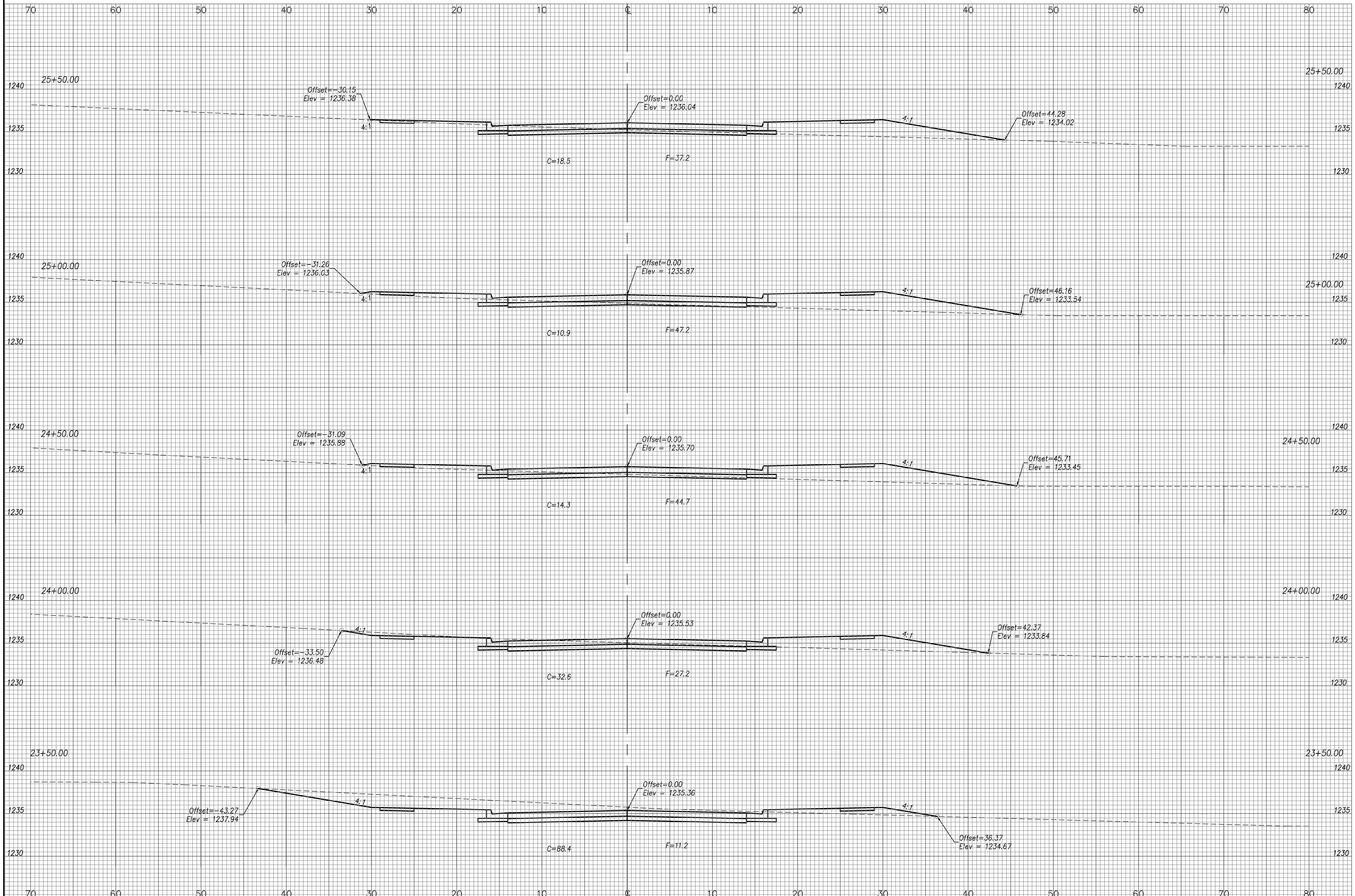
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 40

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

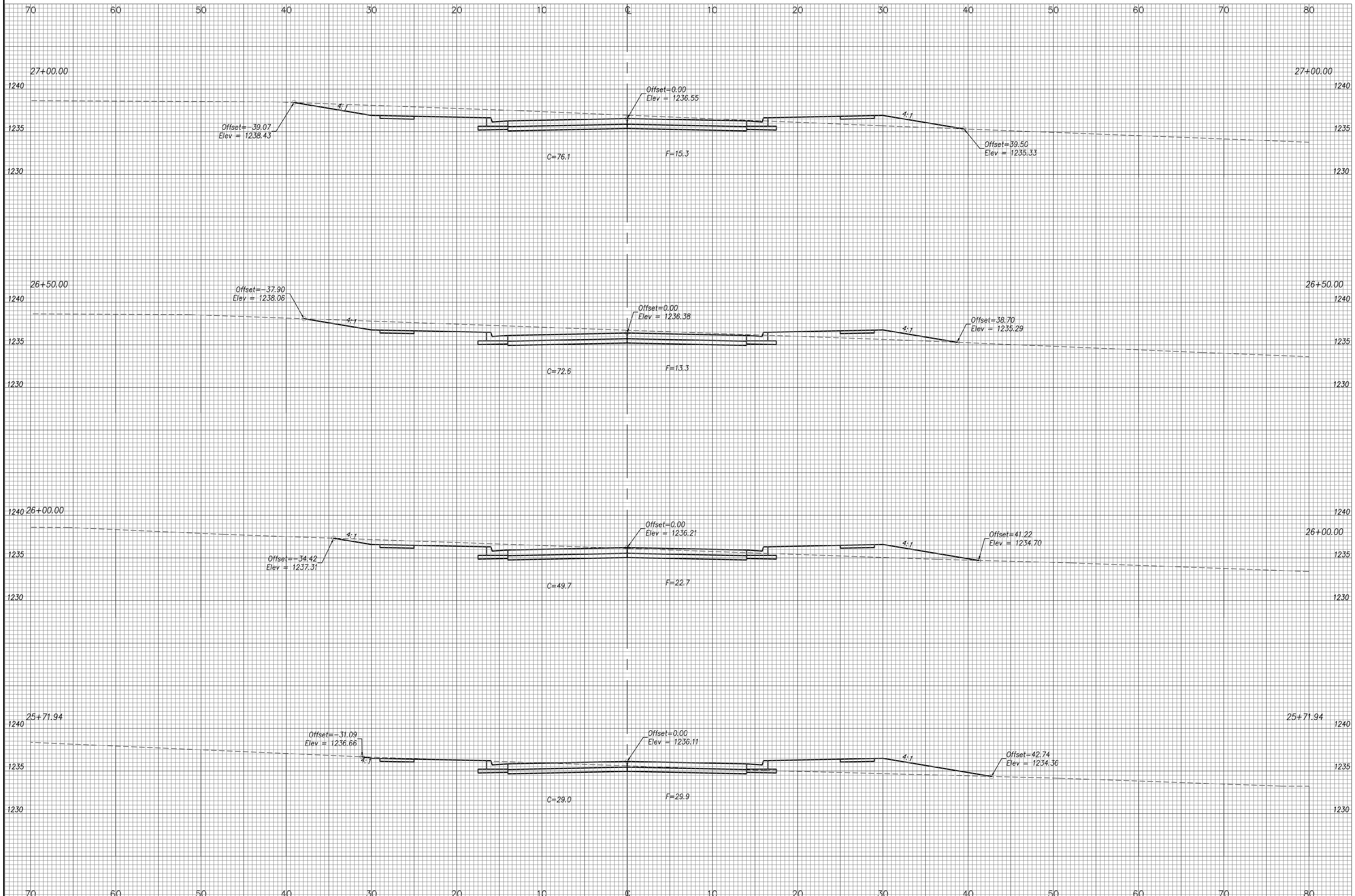
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 41

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

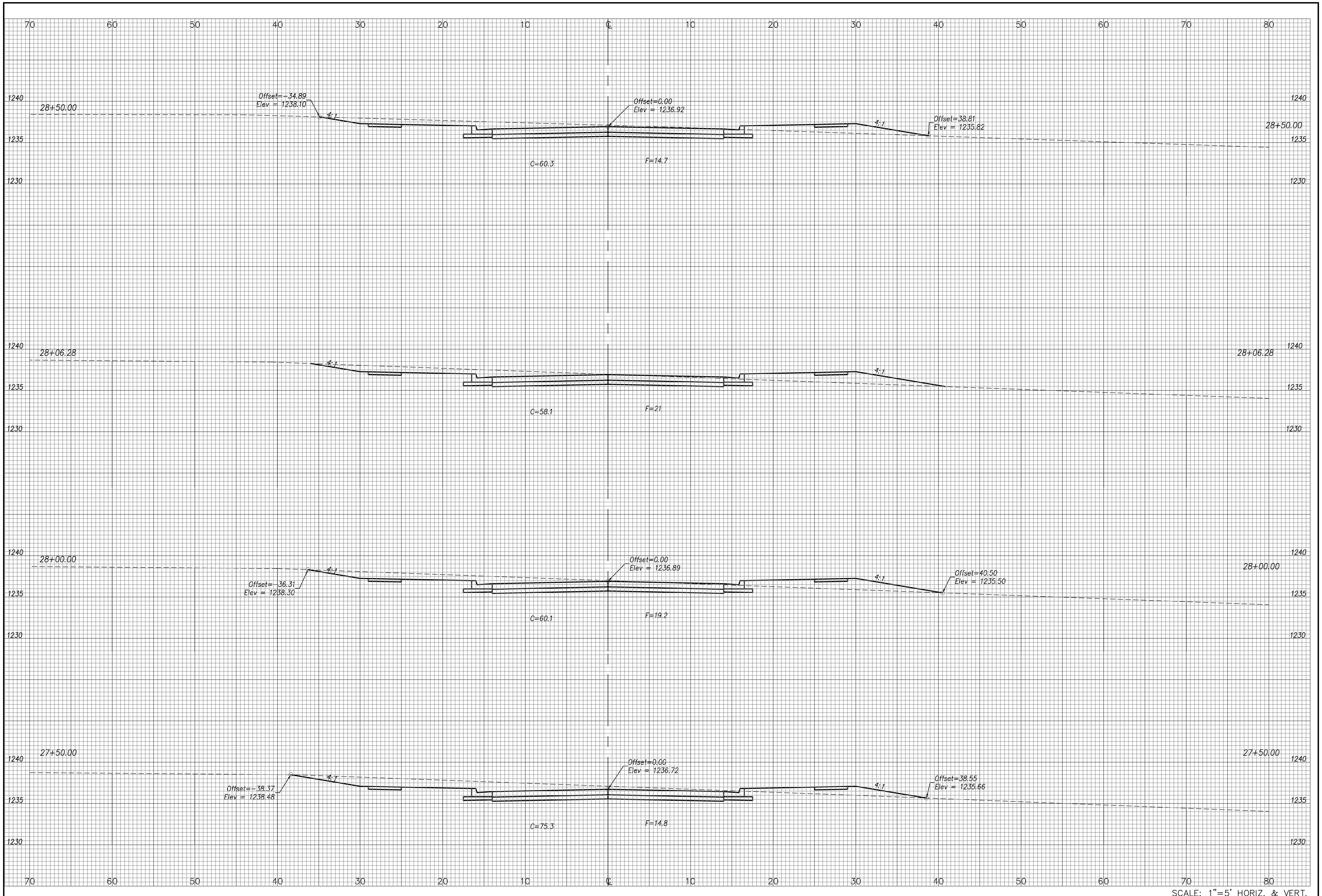
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 42

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

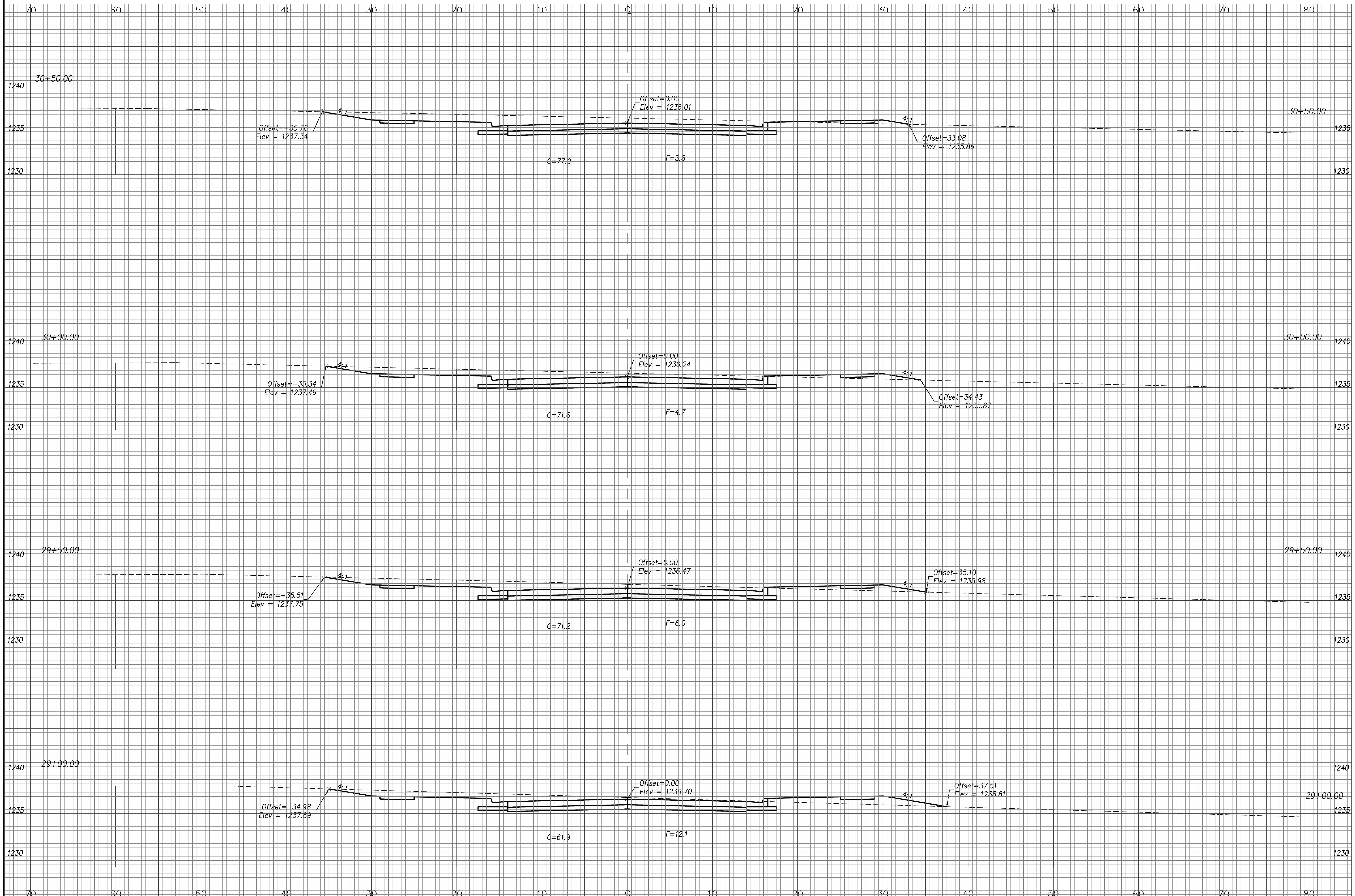
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
43

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

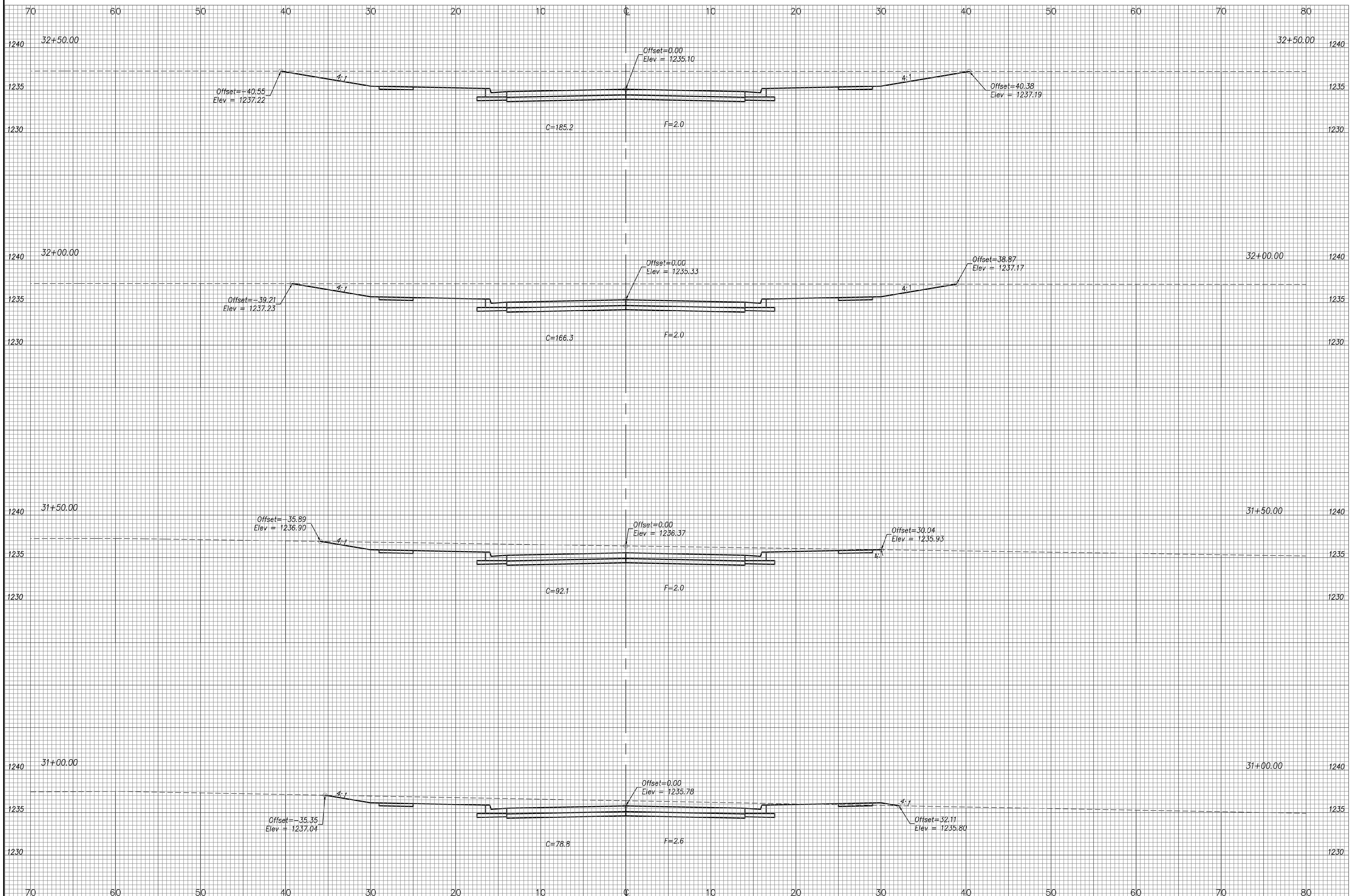
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS SHORELINE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 44

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

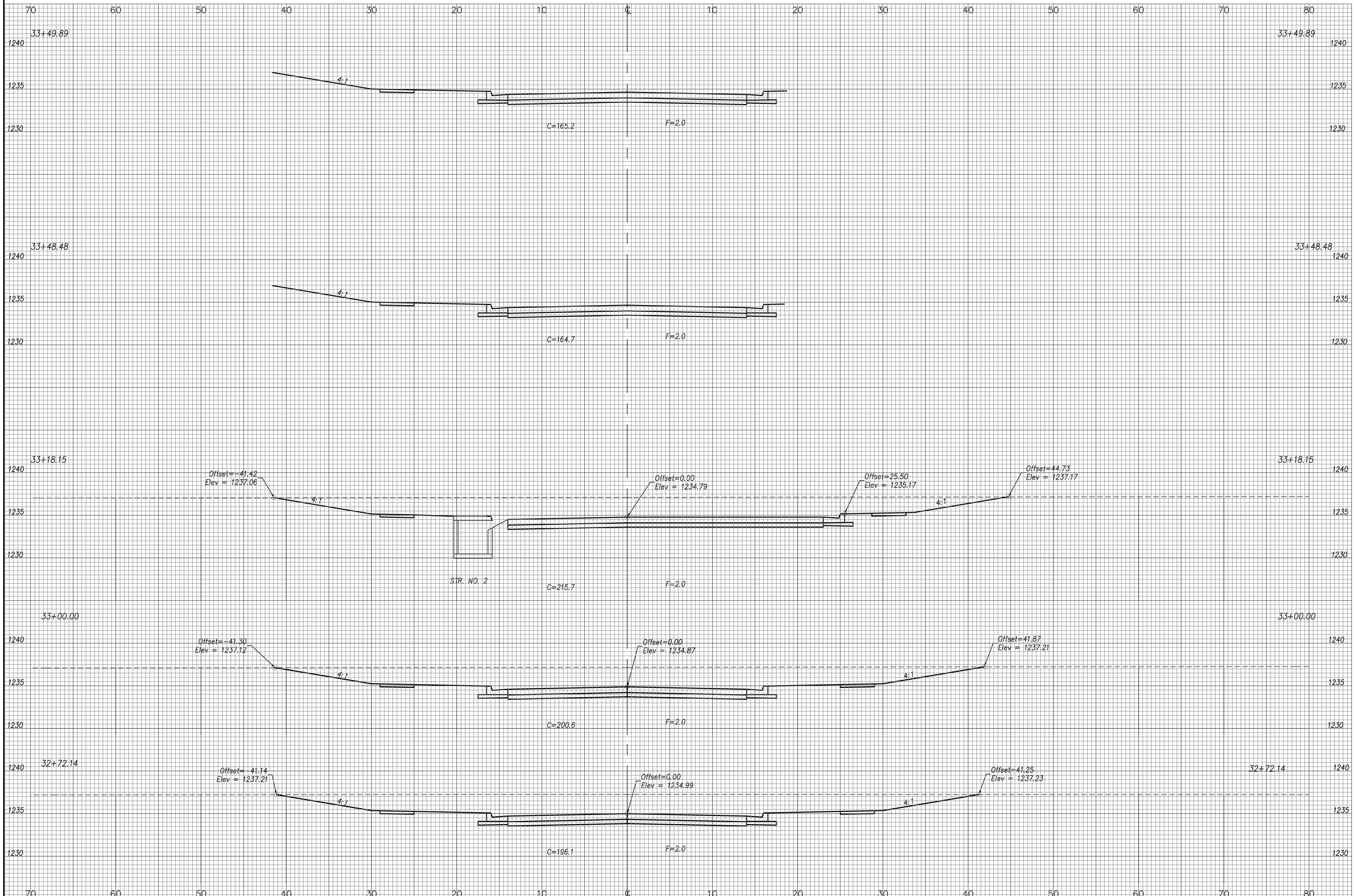
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
45

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel

ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

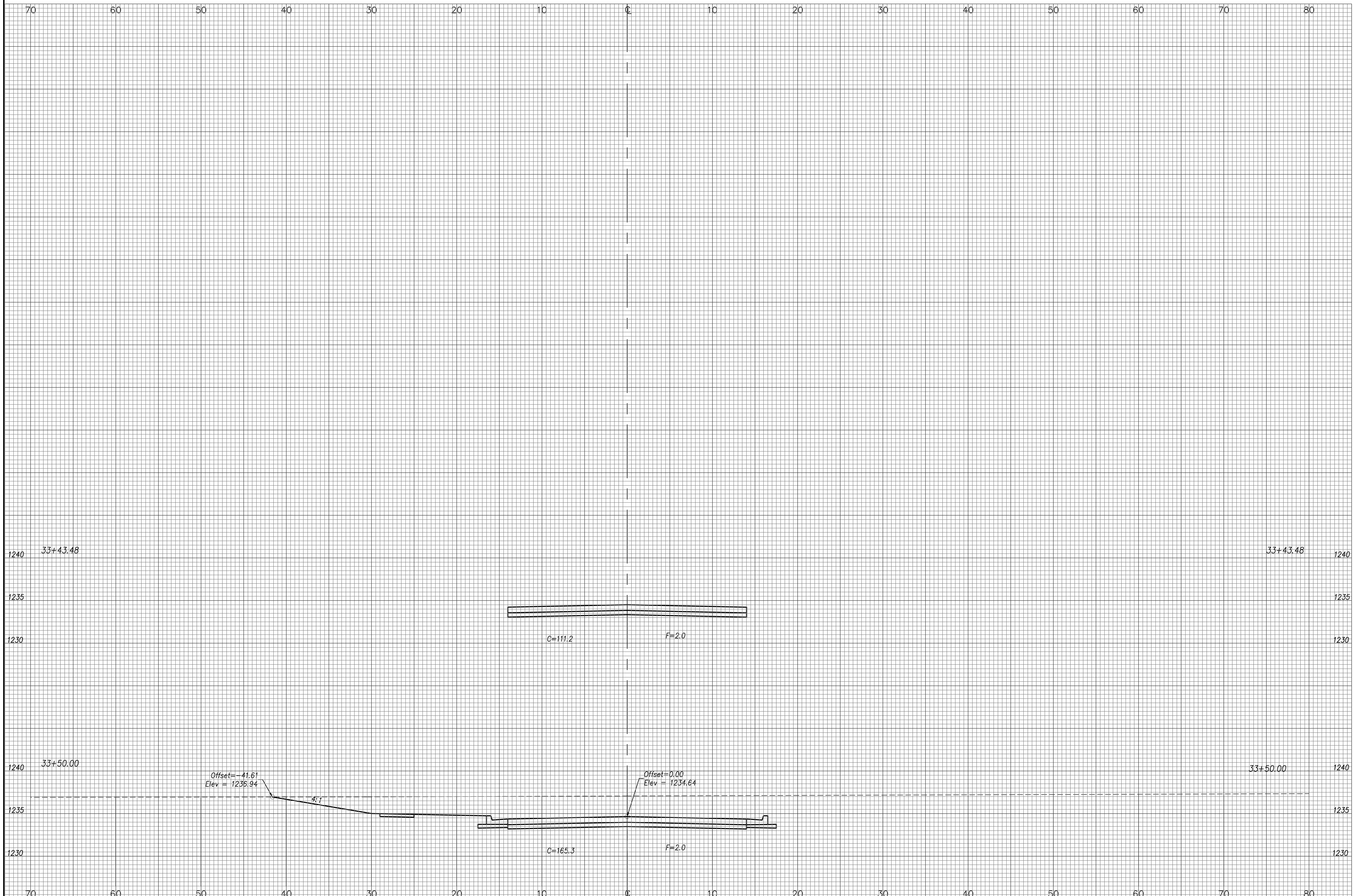
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
46

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

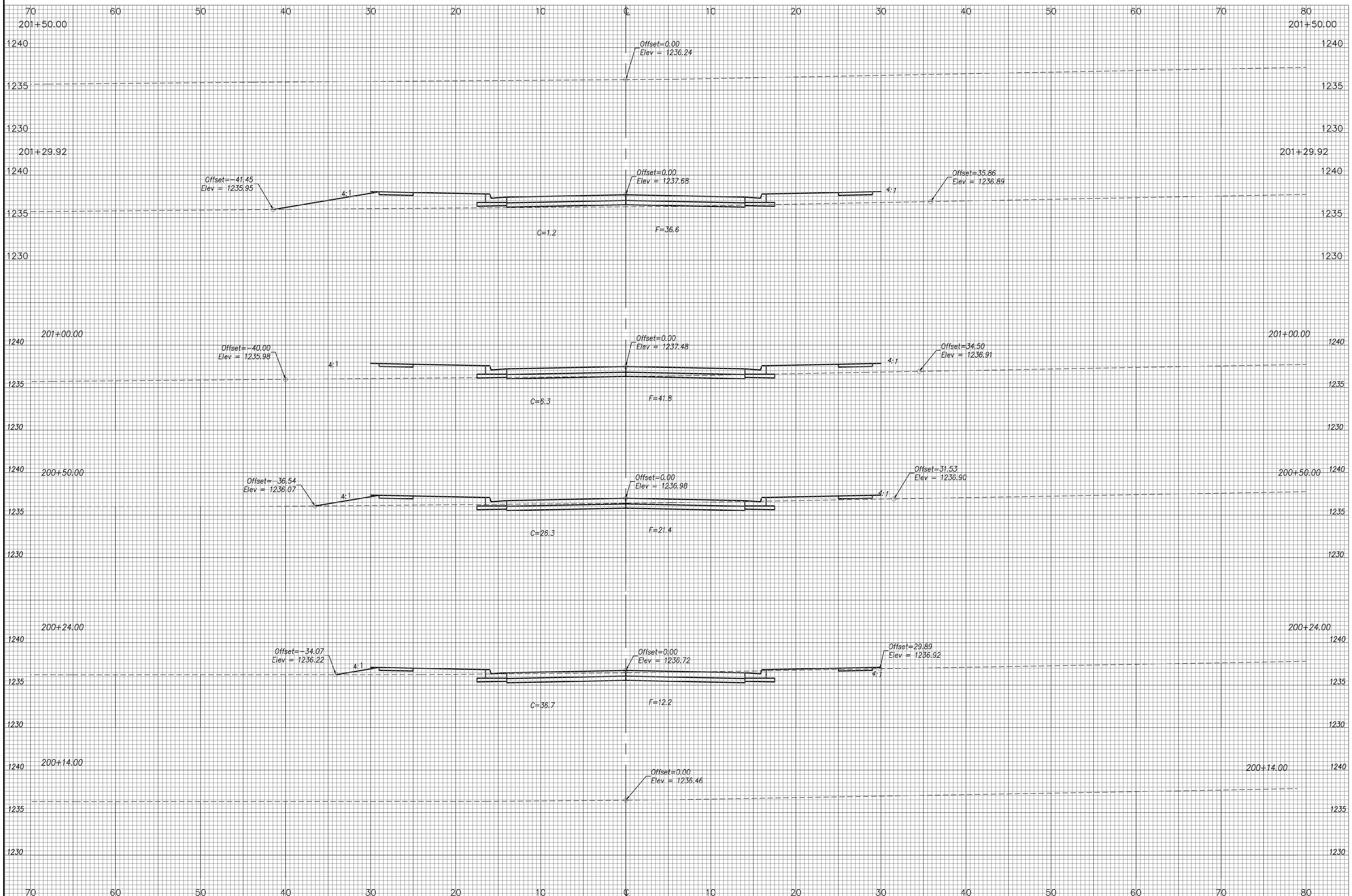
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
47

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

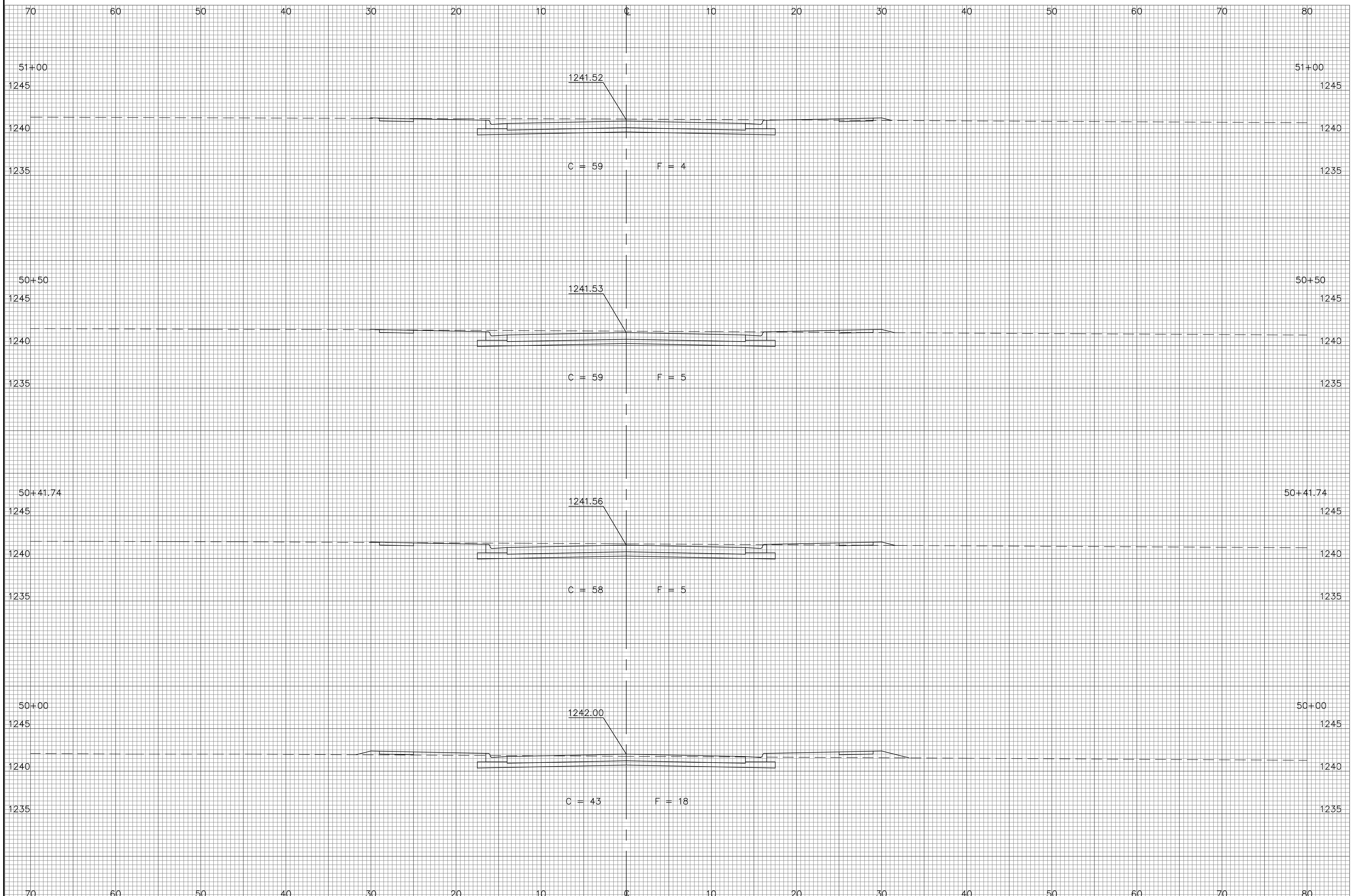
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
SHORELINE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
47A

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

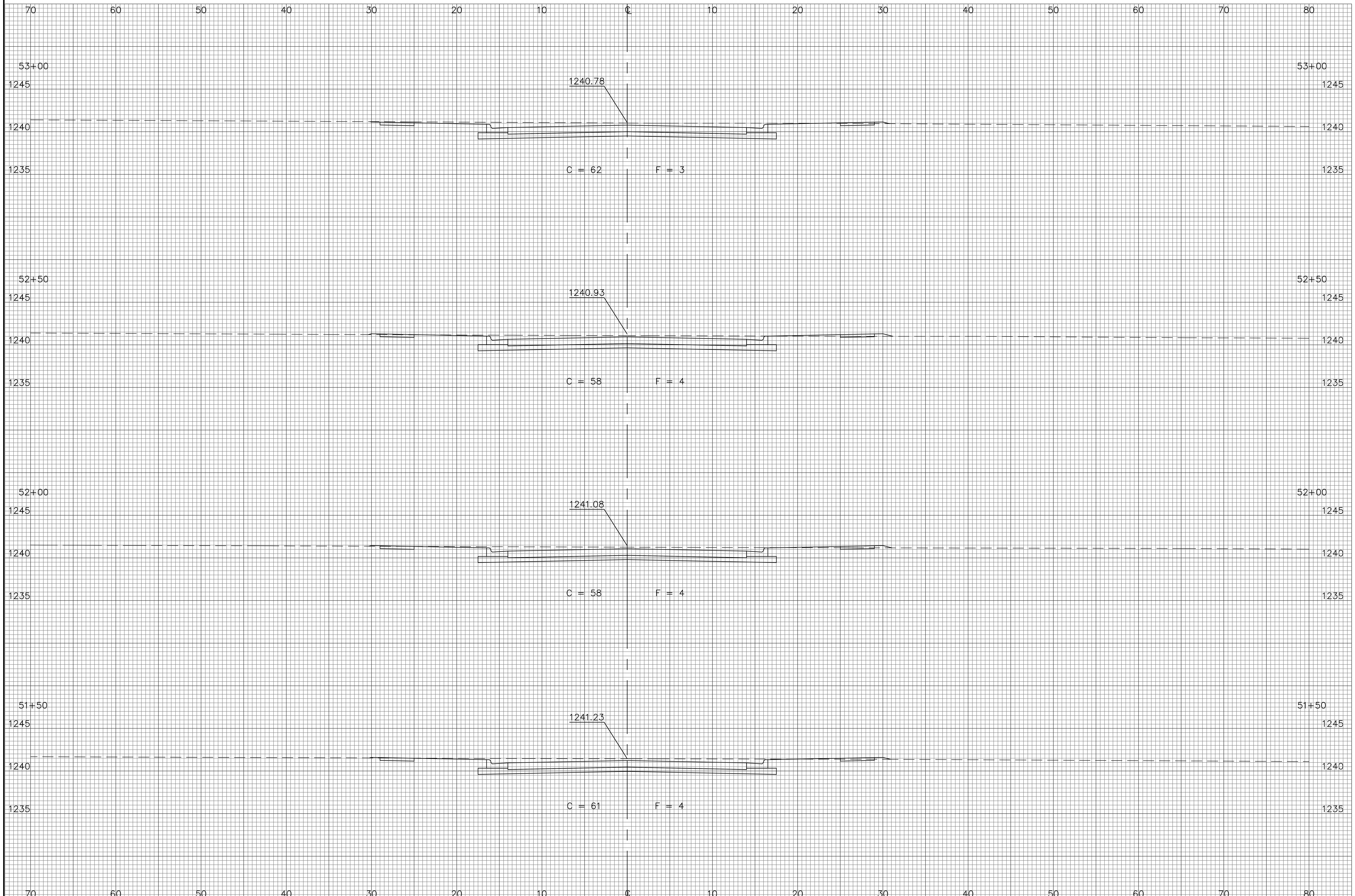
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 48

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

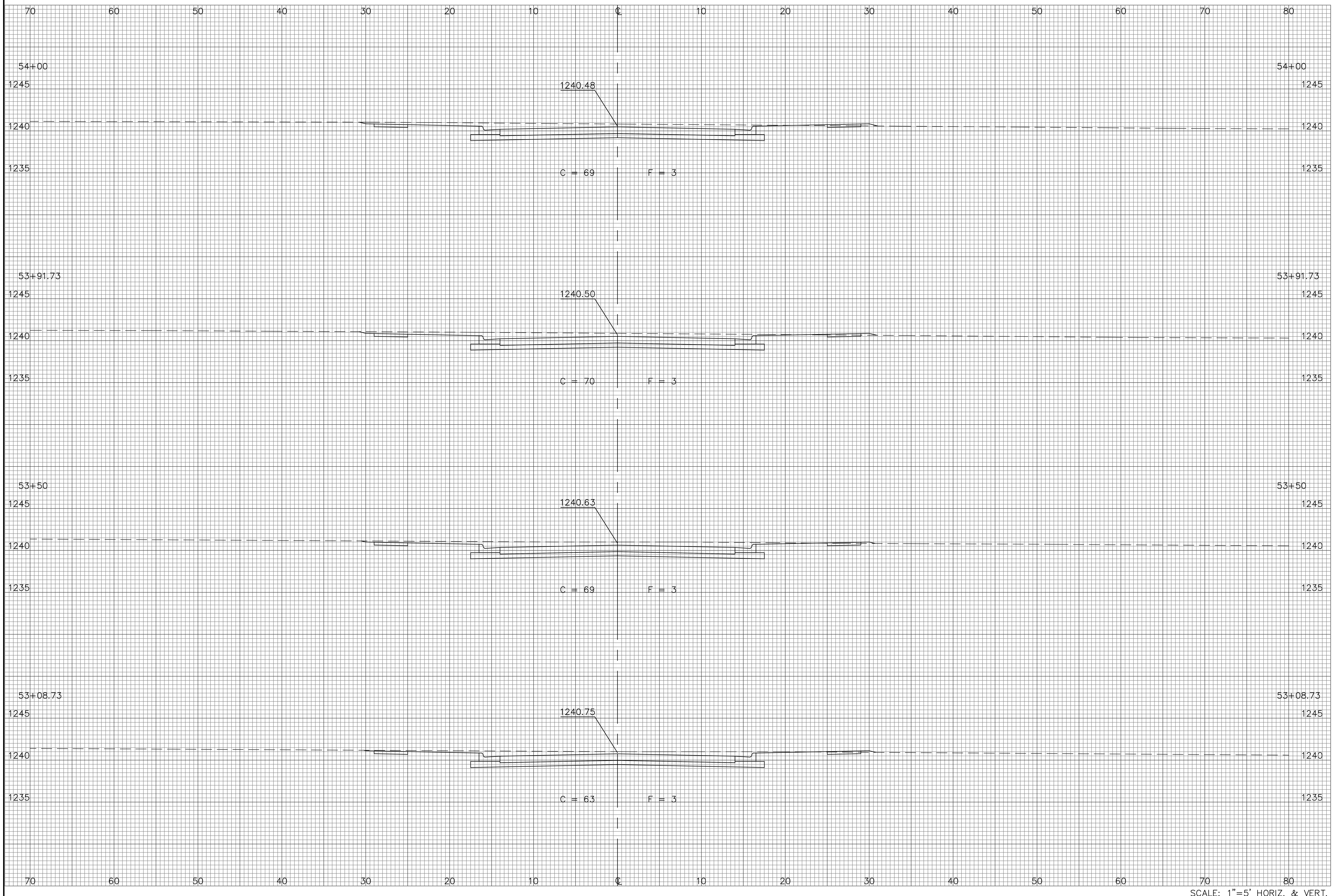
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 49

FINAL



SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

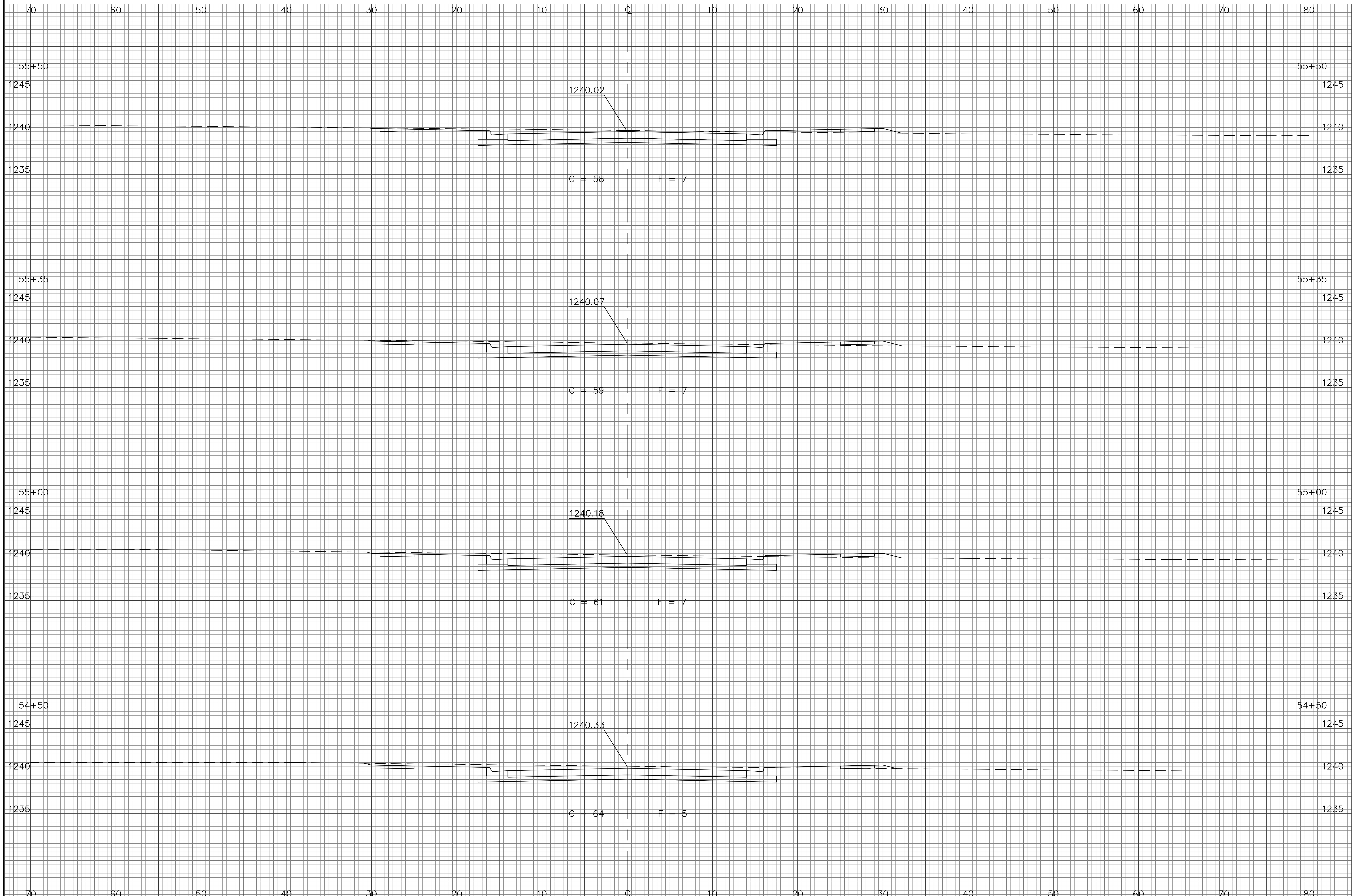
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
50

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

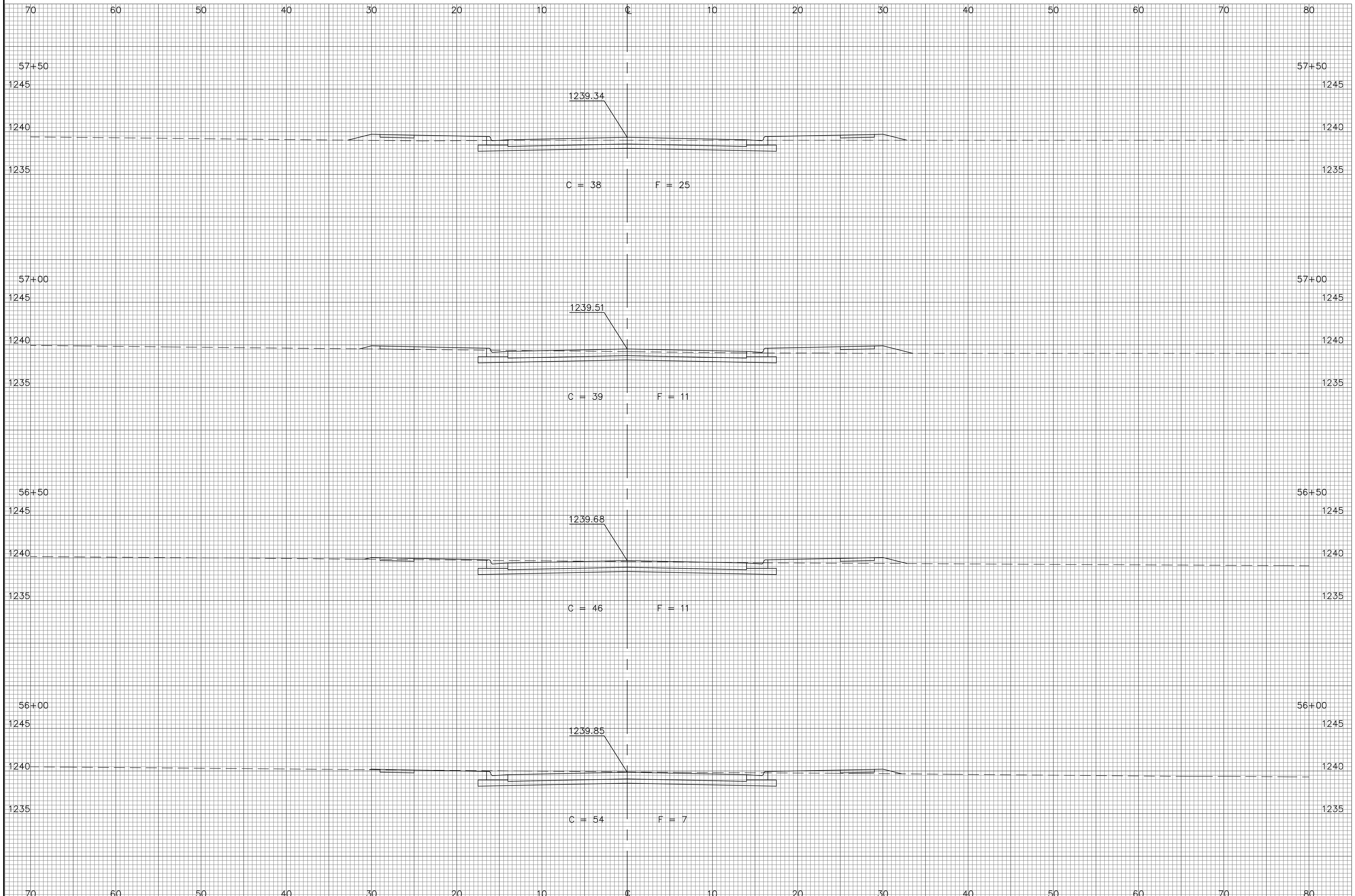
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
51

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

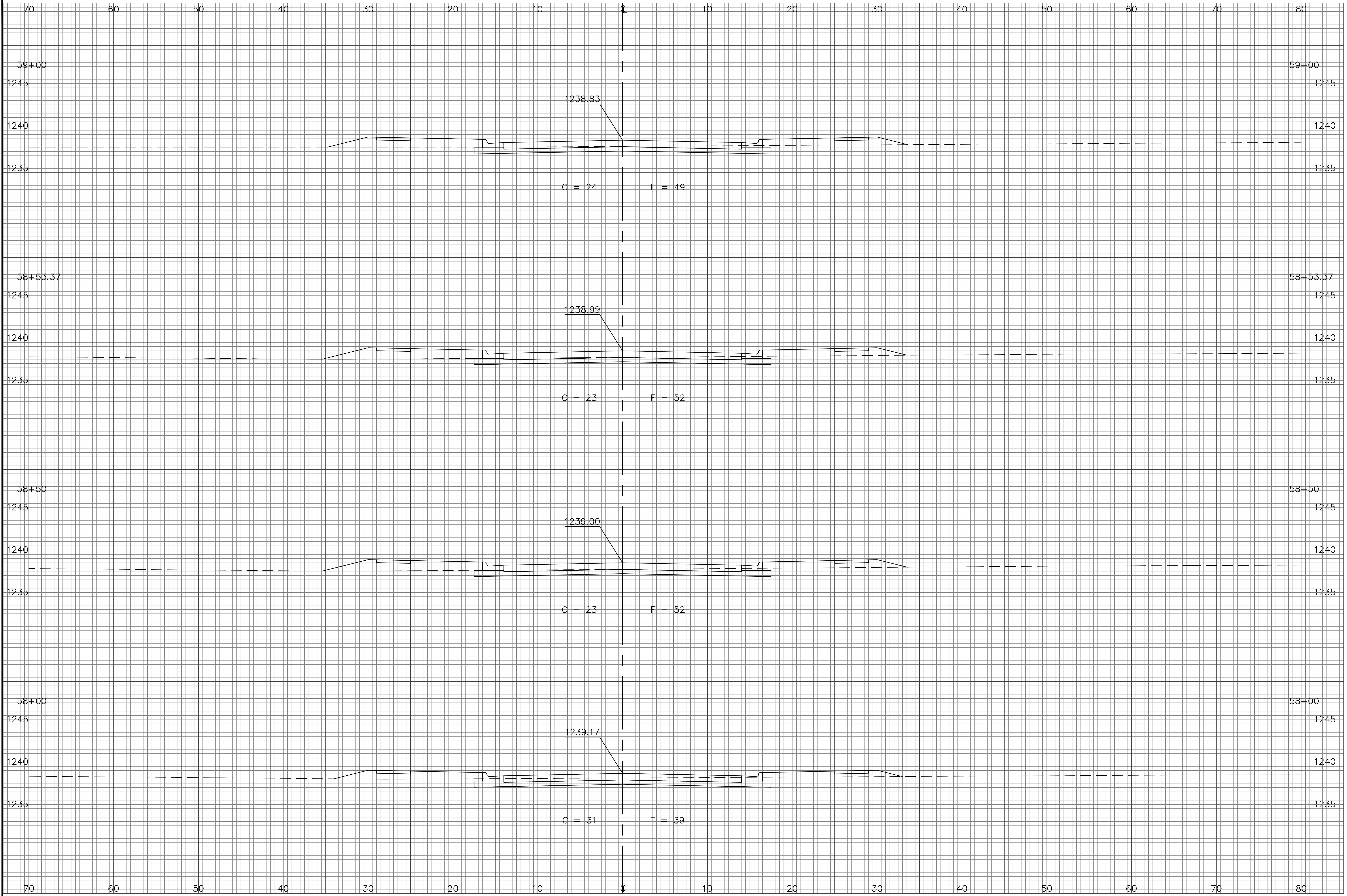
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 52

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
E N G I N E E R S, P. A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

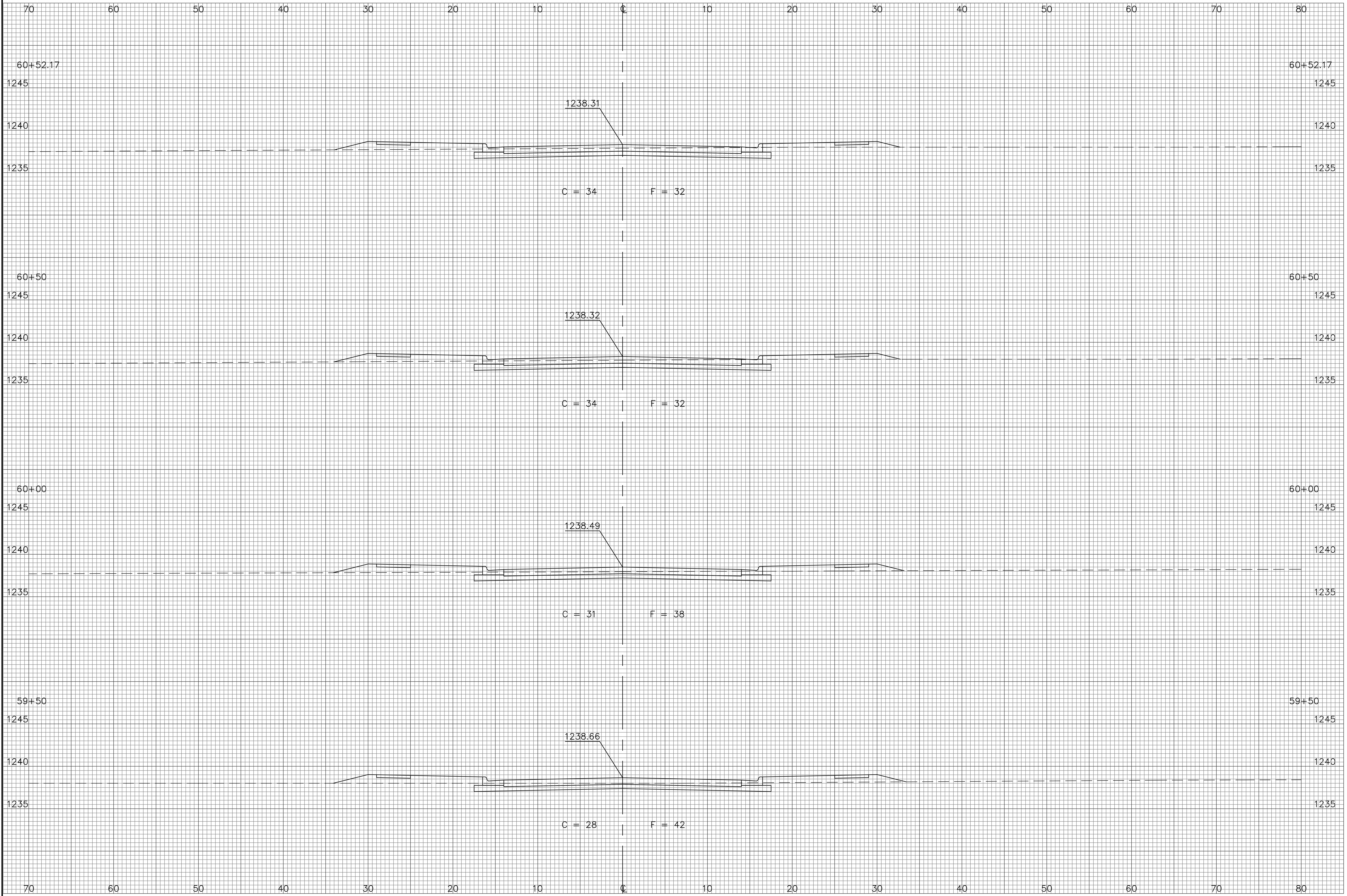
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
53

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

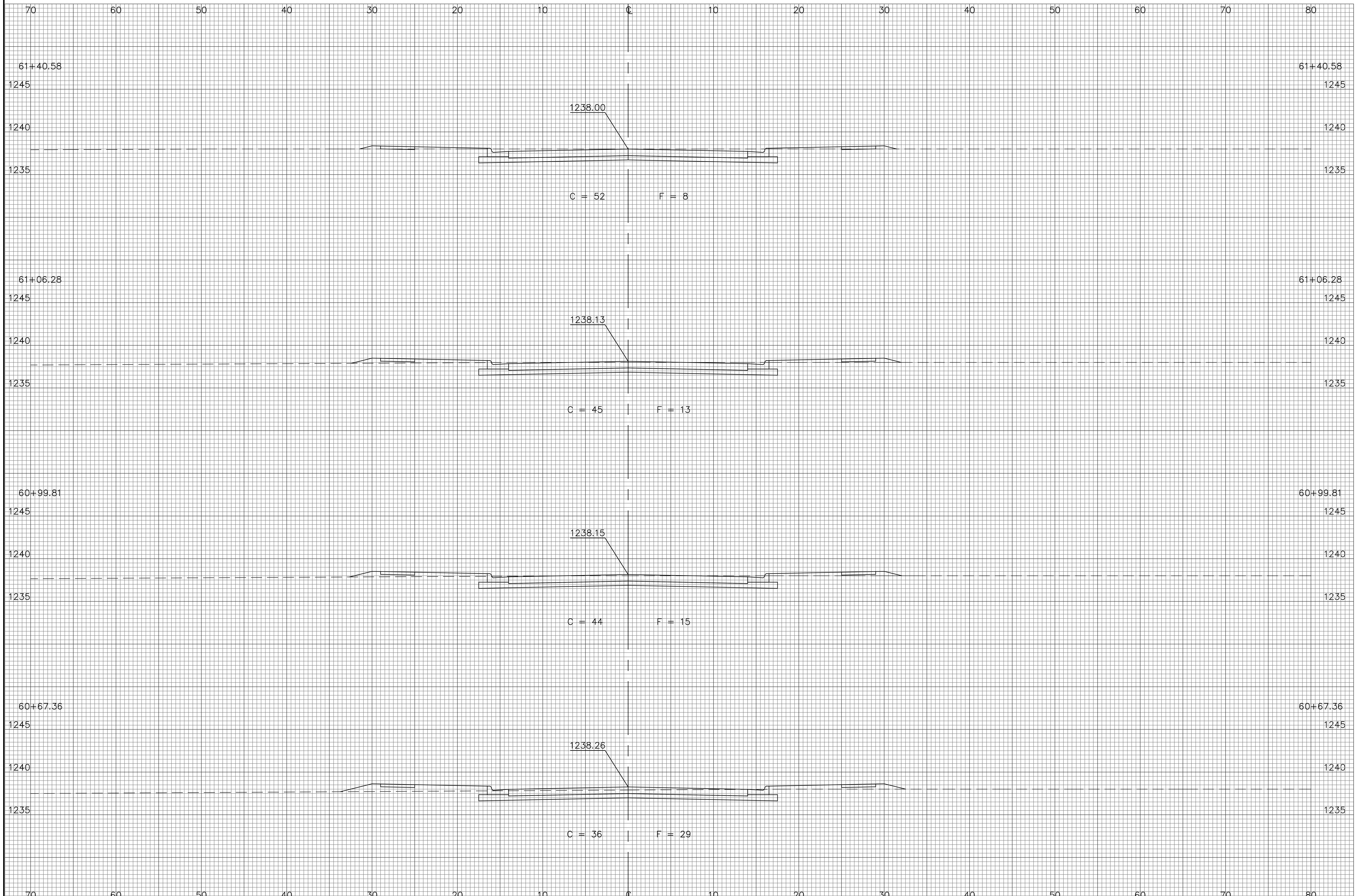
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
54

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

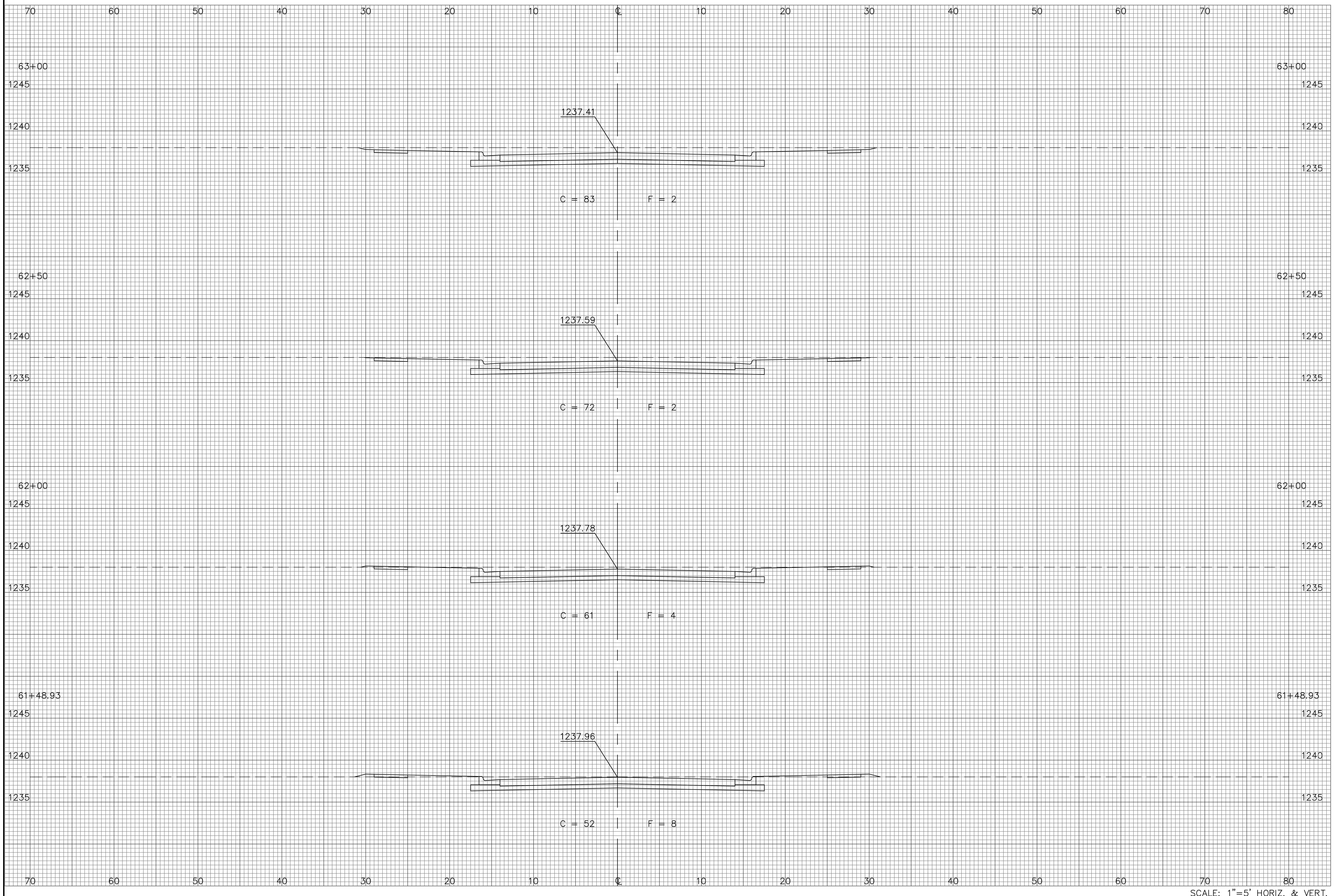
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
55

FINAL



SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

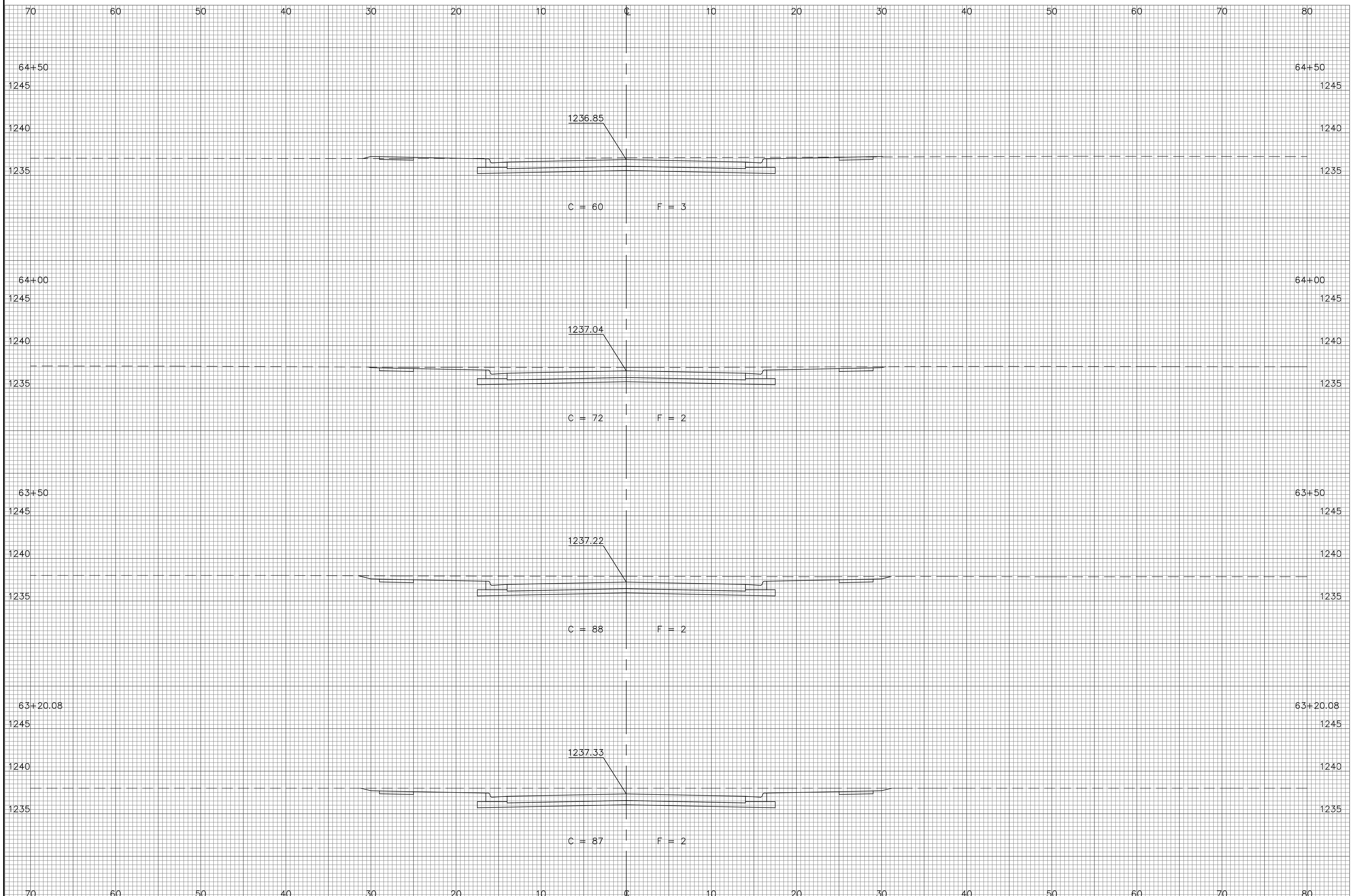
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
56

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

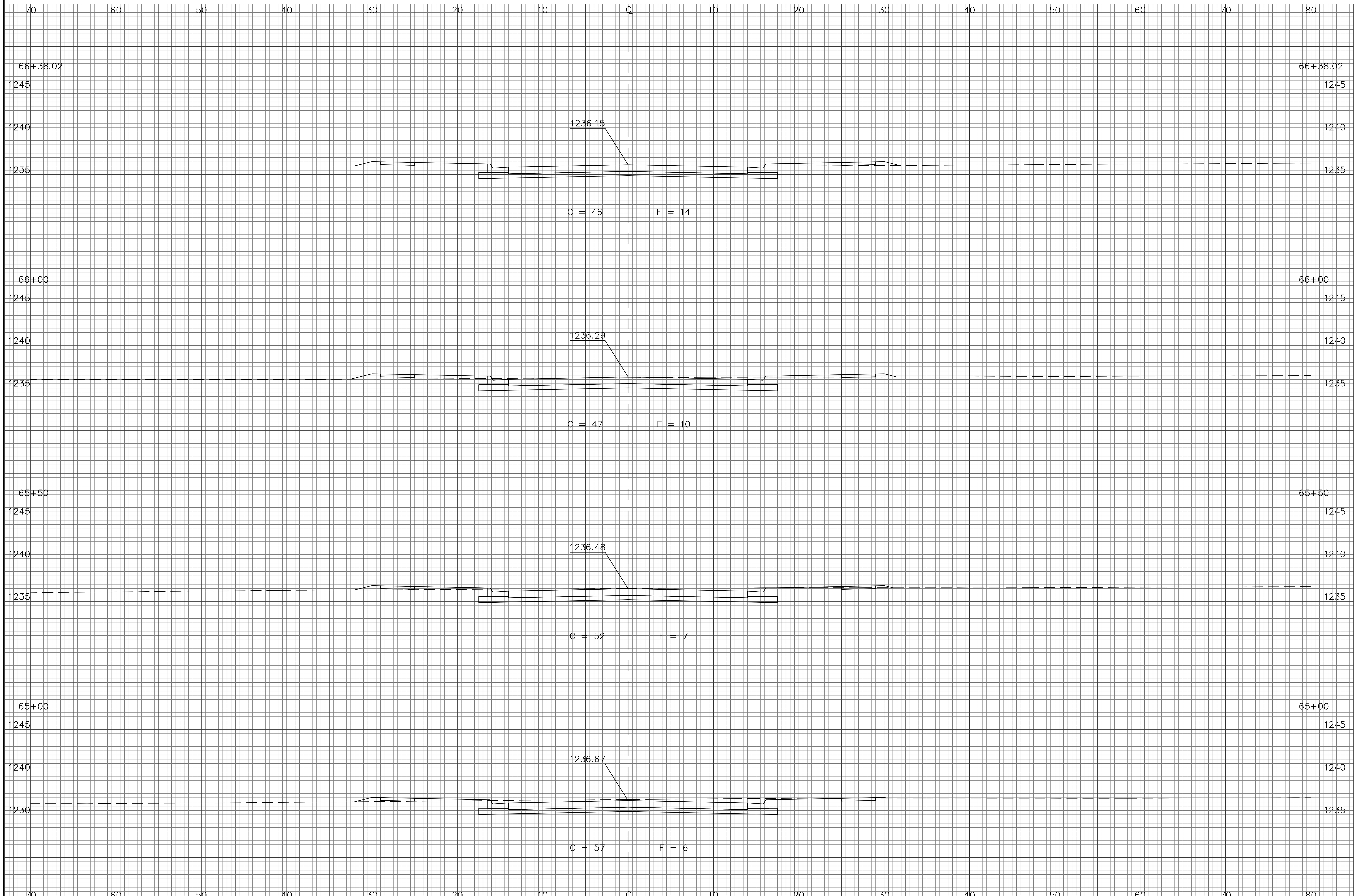
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 57

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

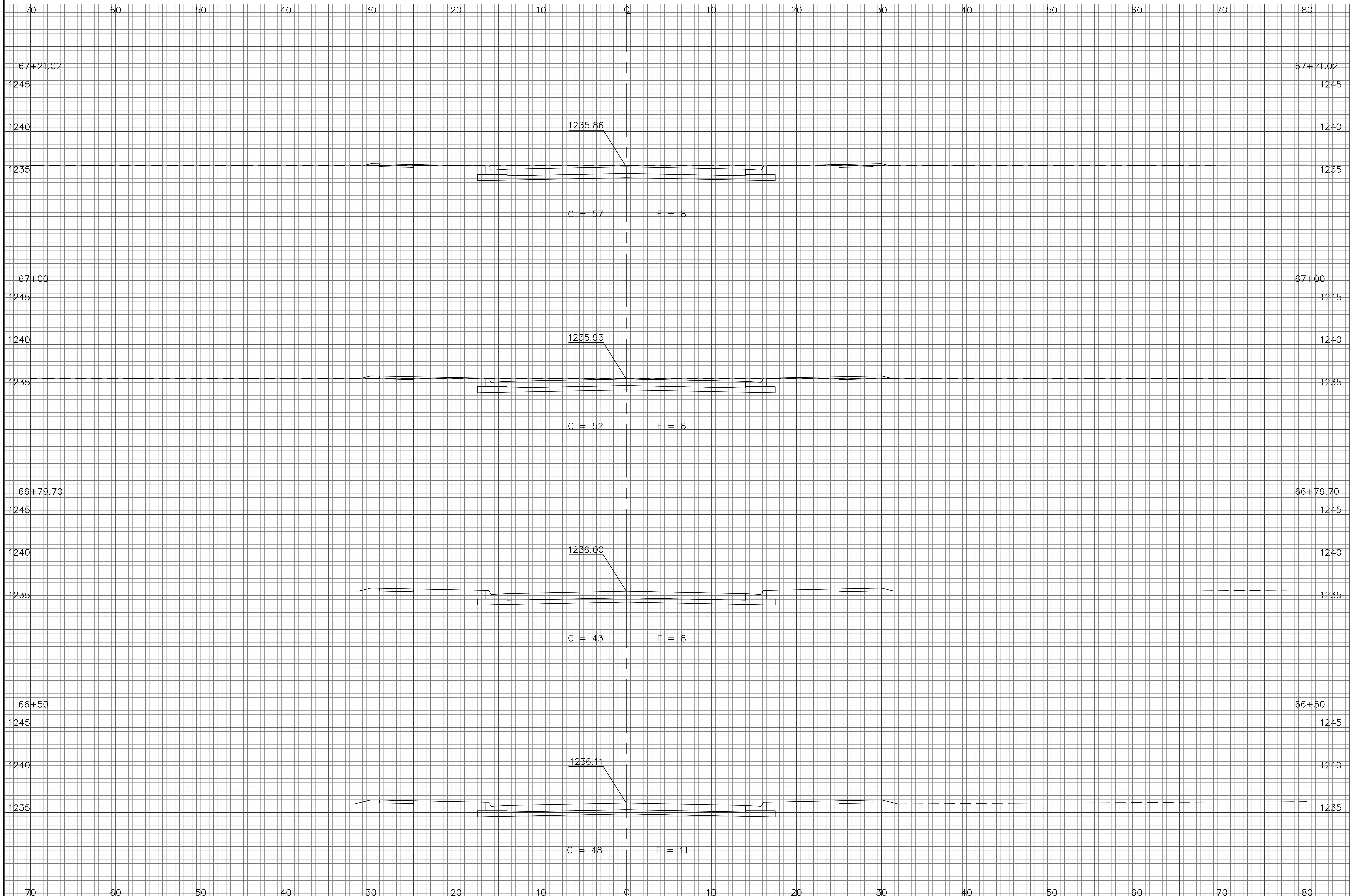
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
58

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

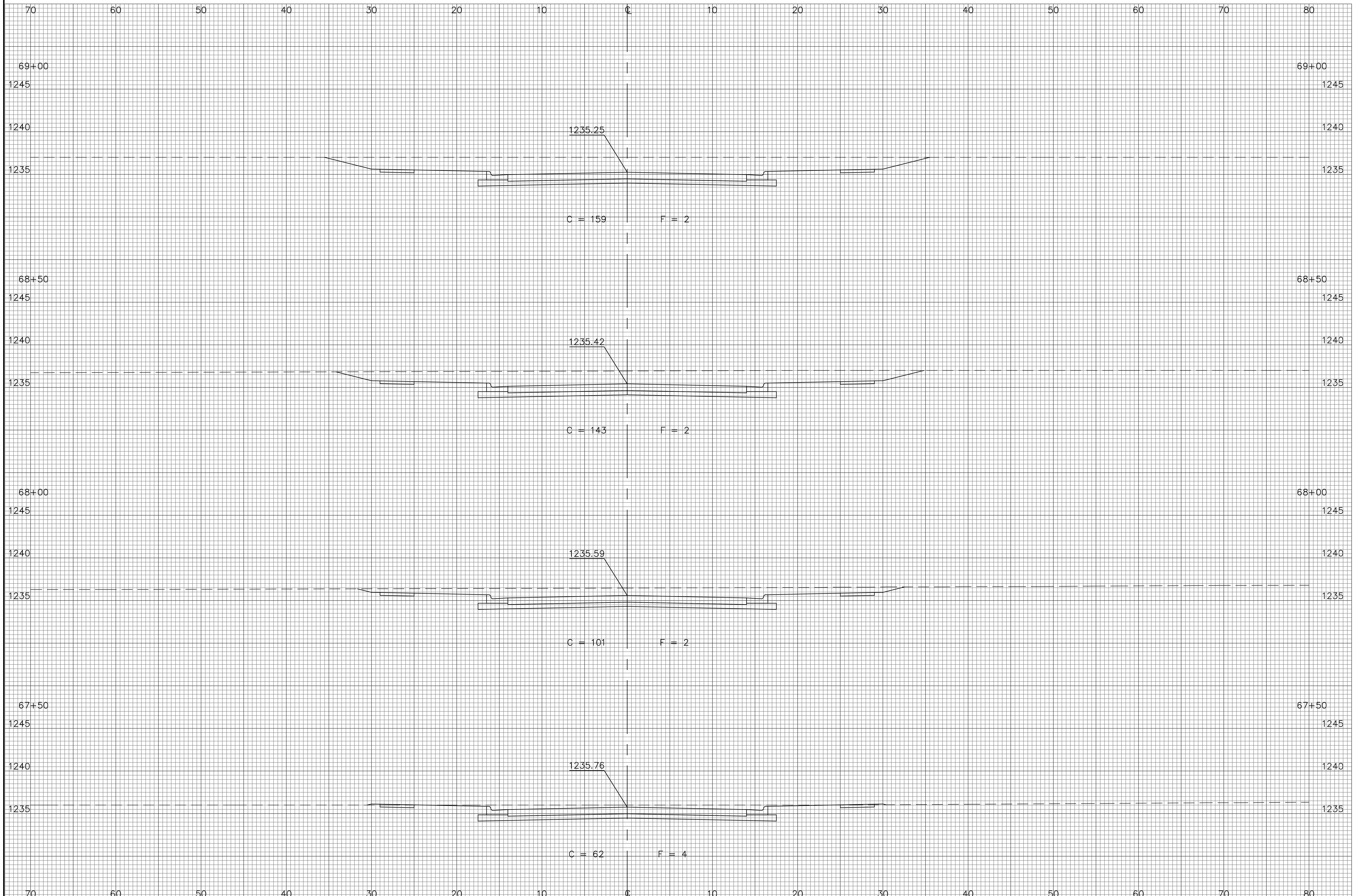
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
59

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

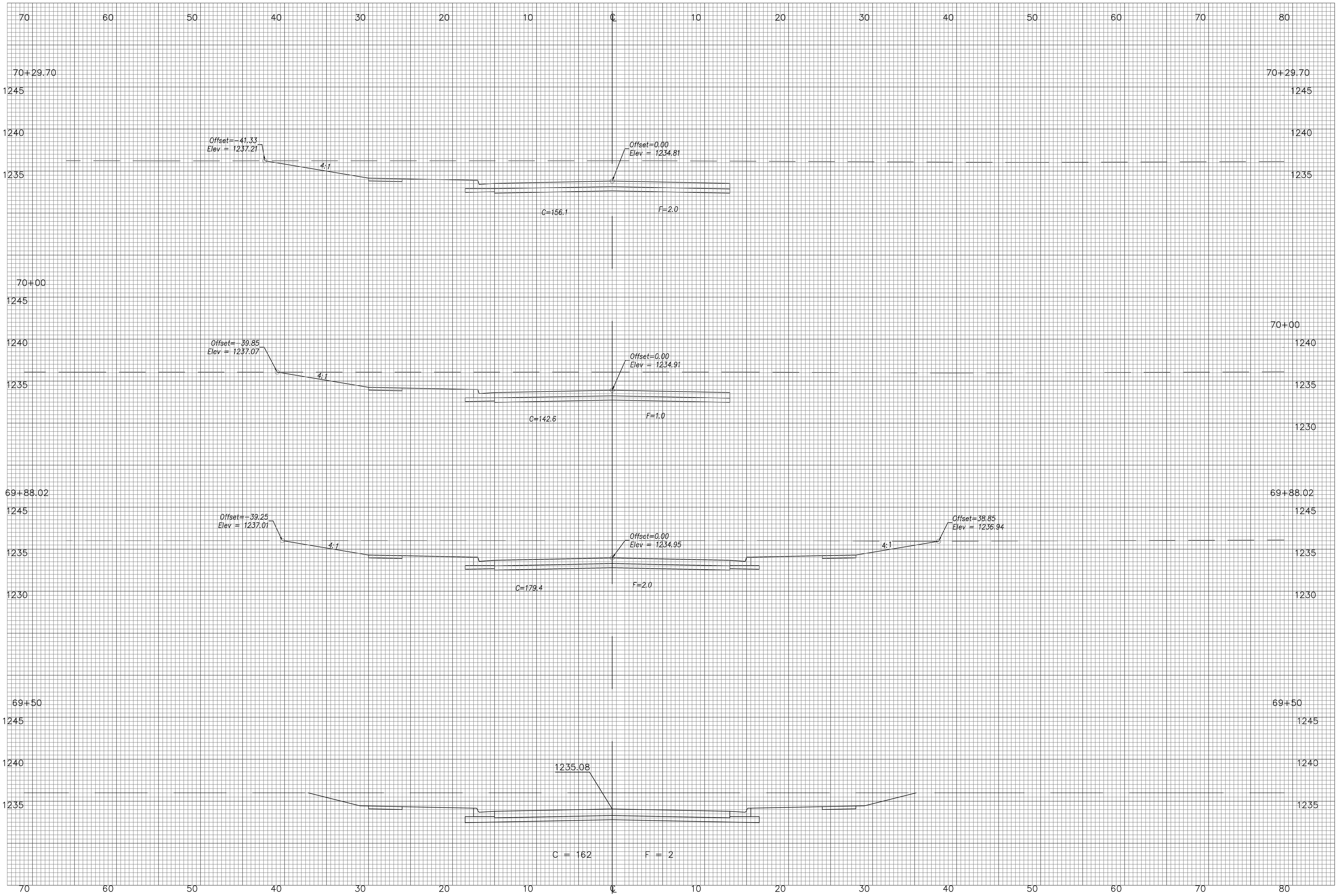
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 60

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

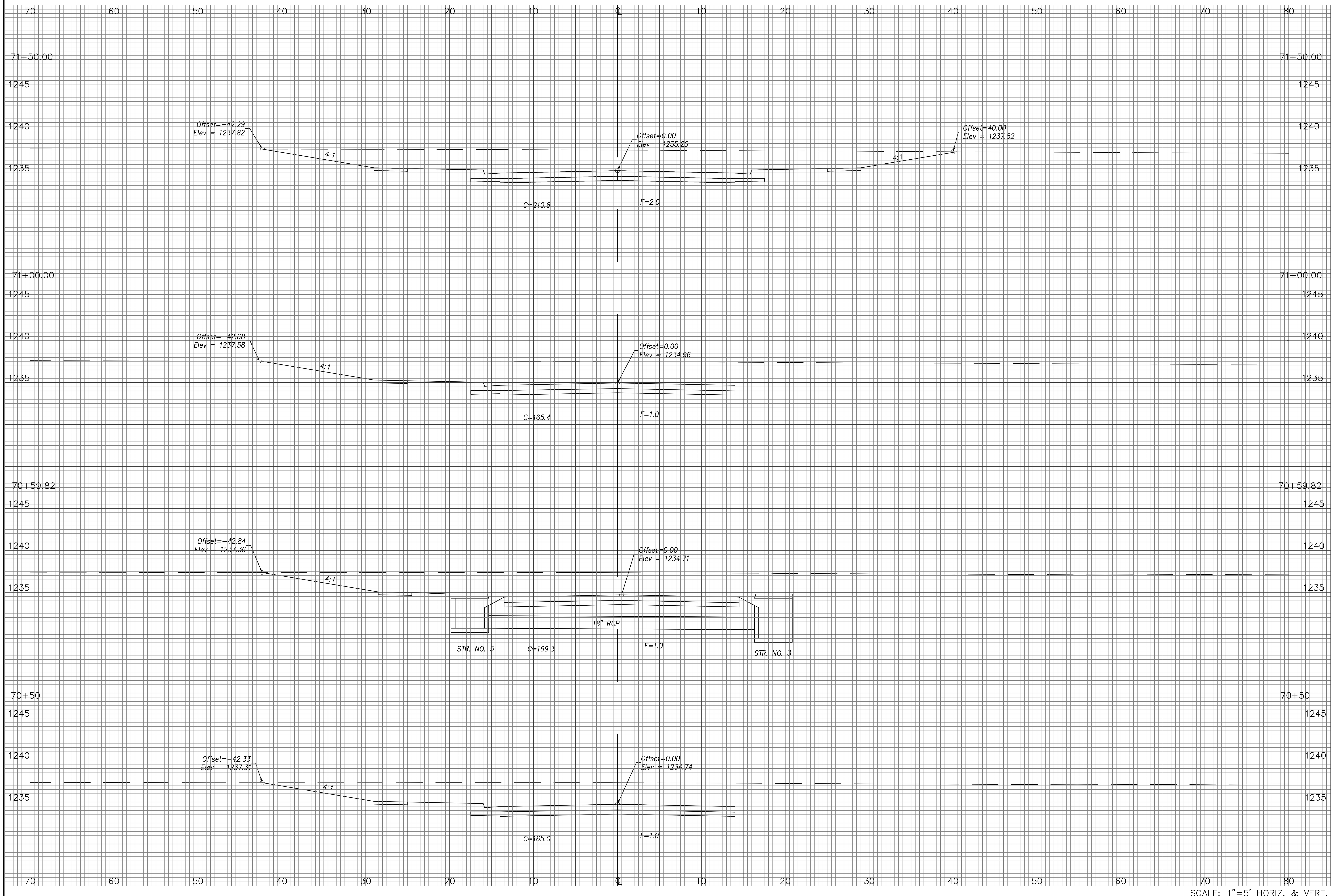
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
61

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

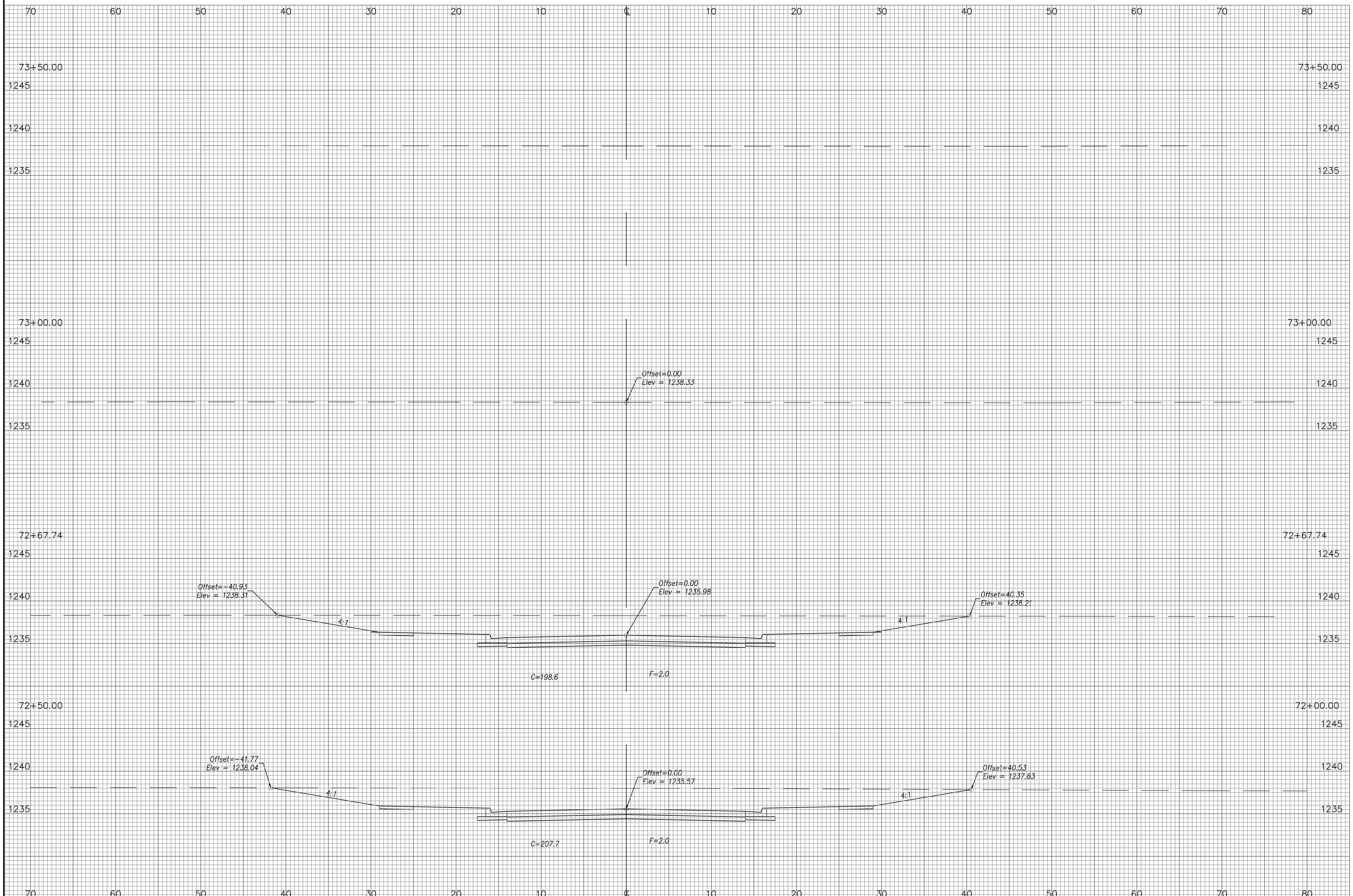
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
62

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

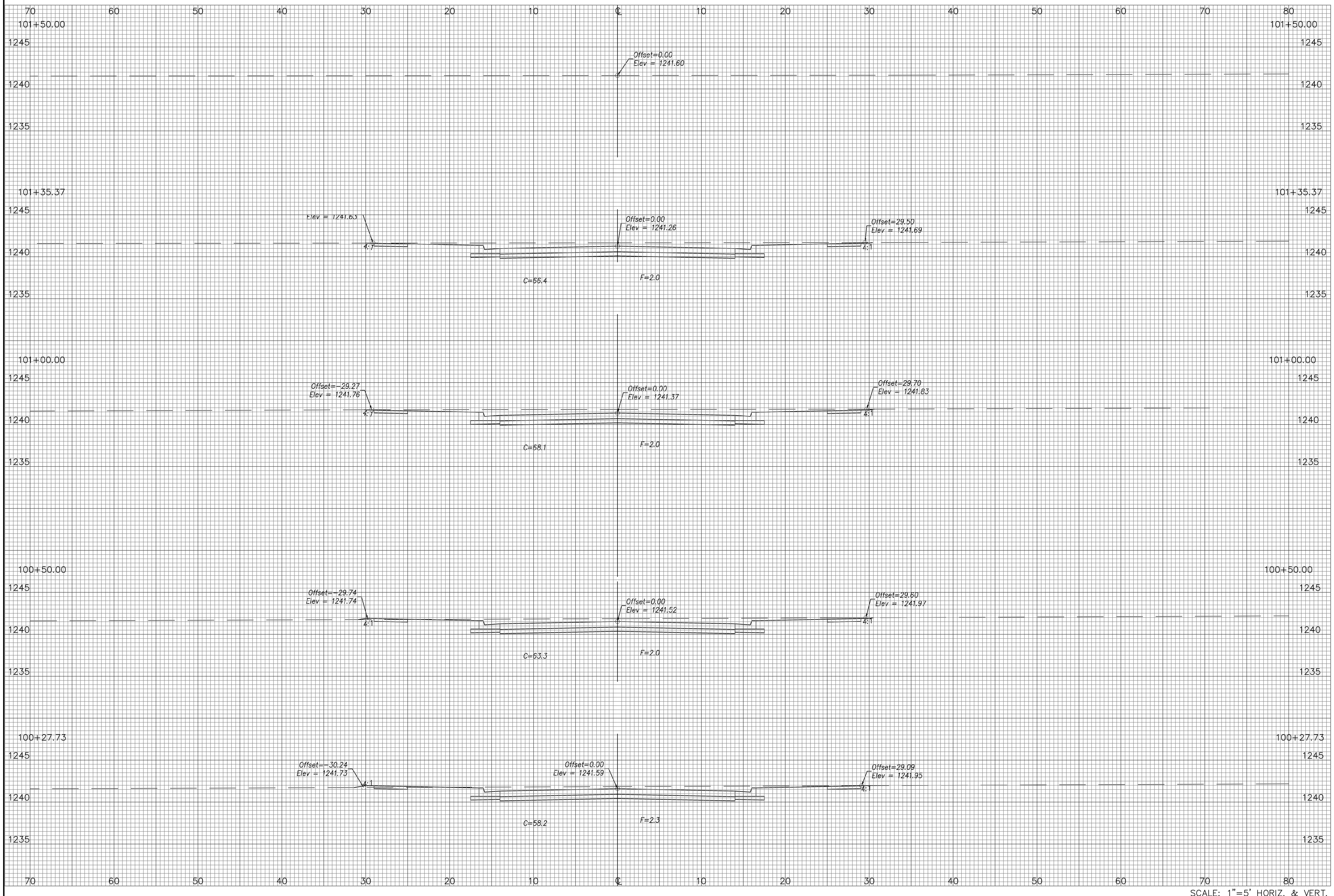
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE DRIVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 63

FINAL



SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
E N G I N E E R S, P. A.

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

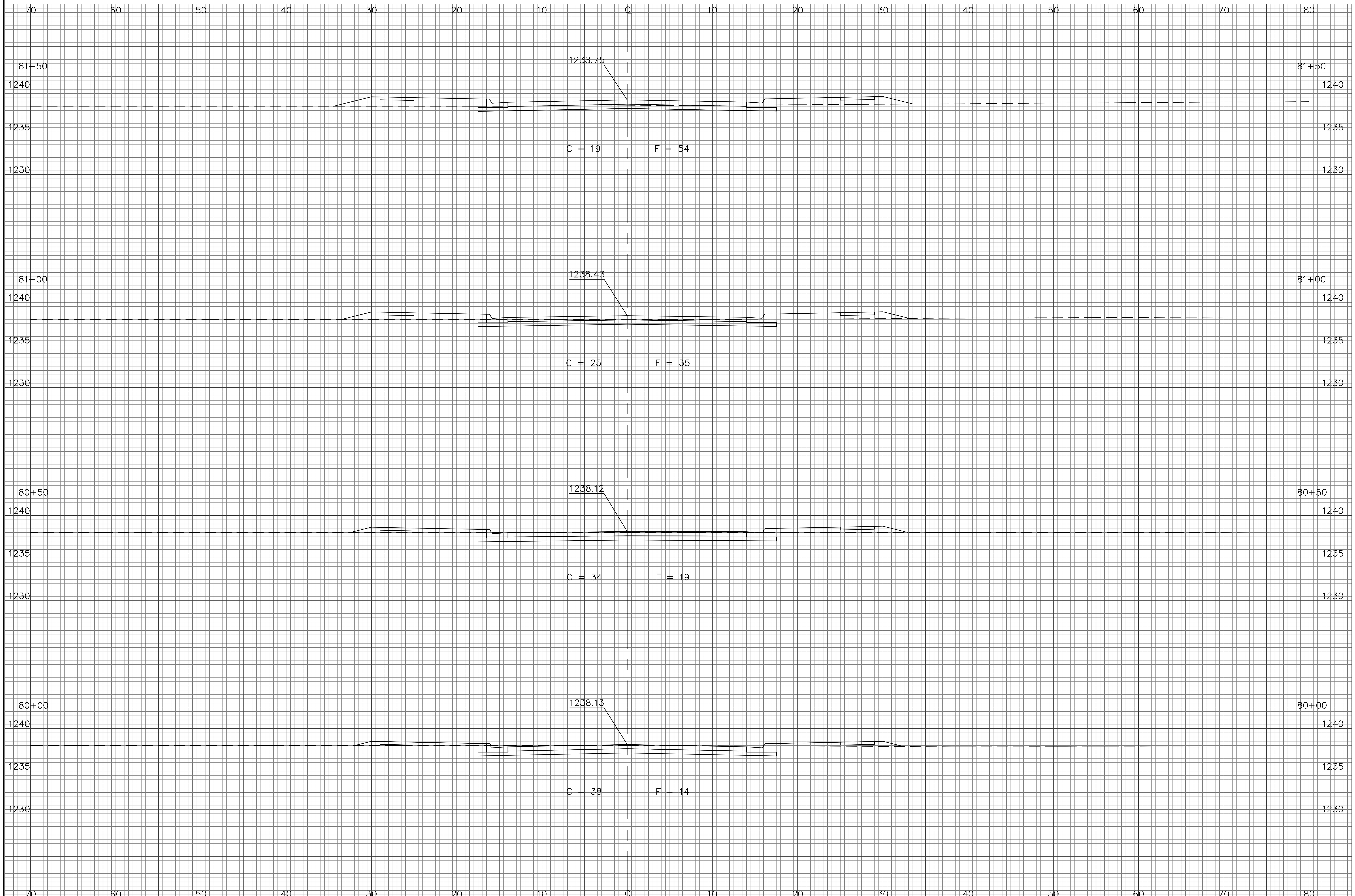
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE DRIVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
63A

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

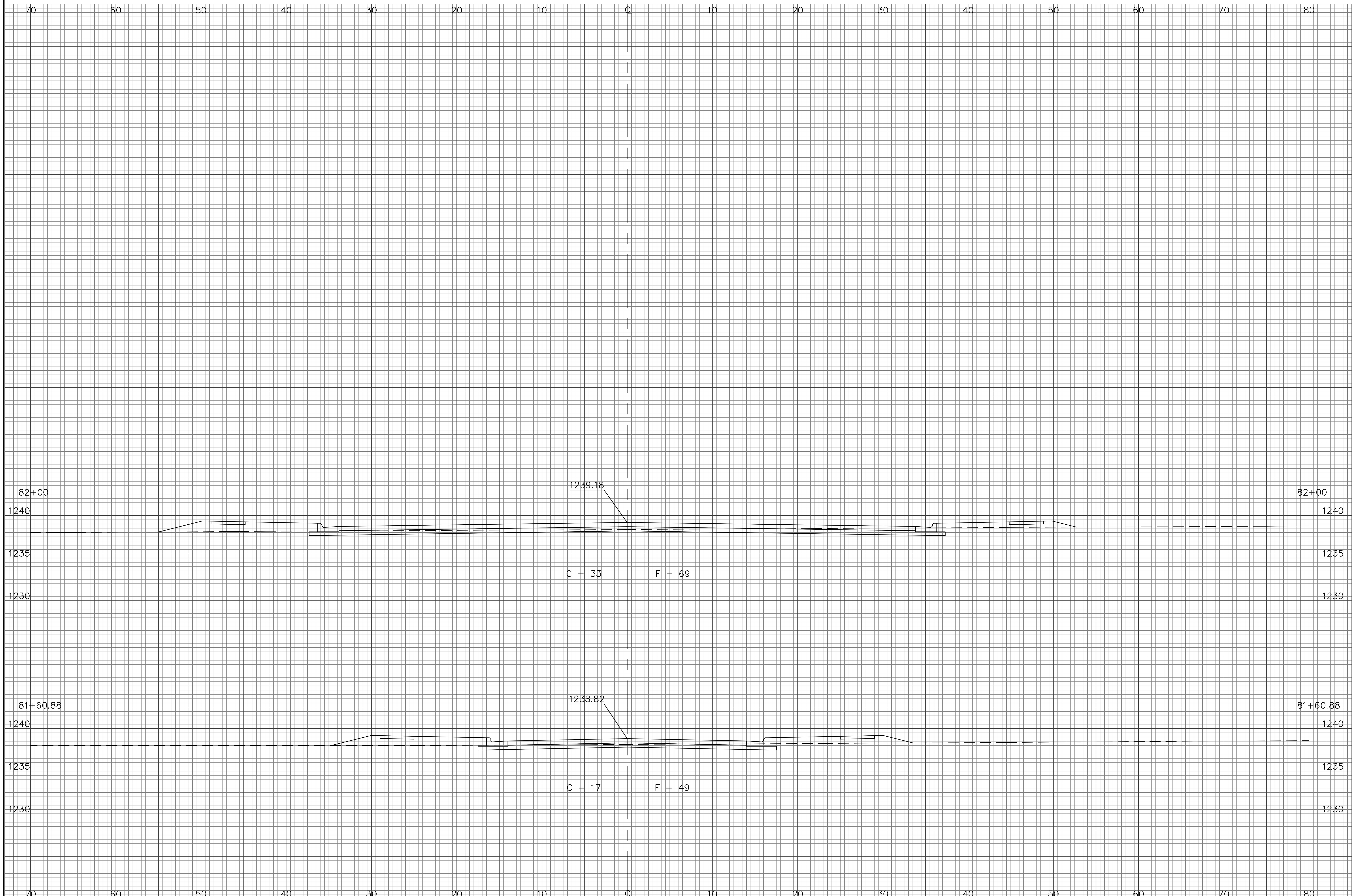
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE COVE

PROJECT PHASE:
PHASE I

SHEET NUMBER:
64

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

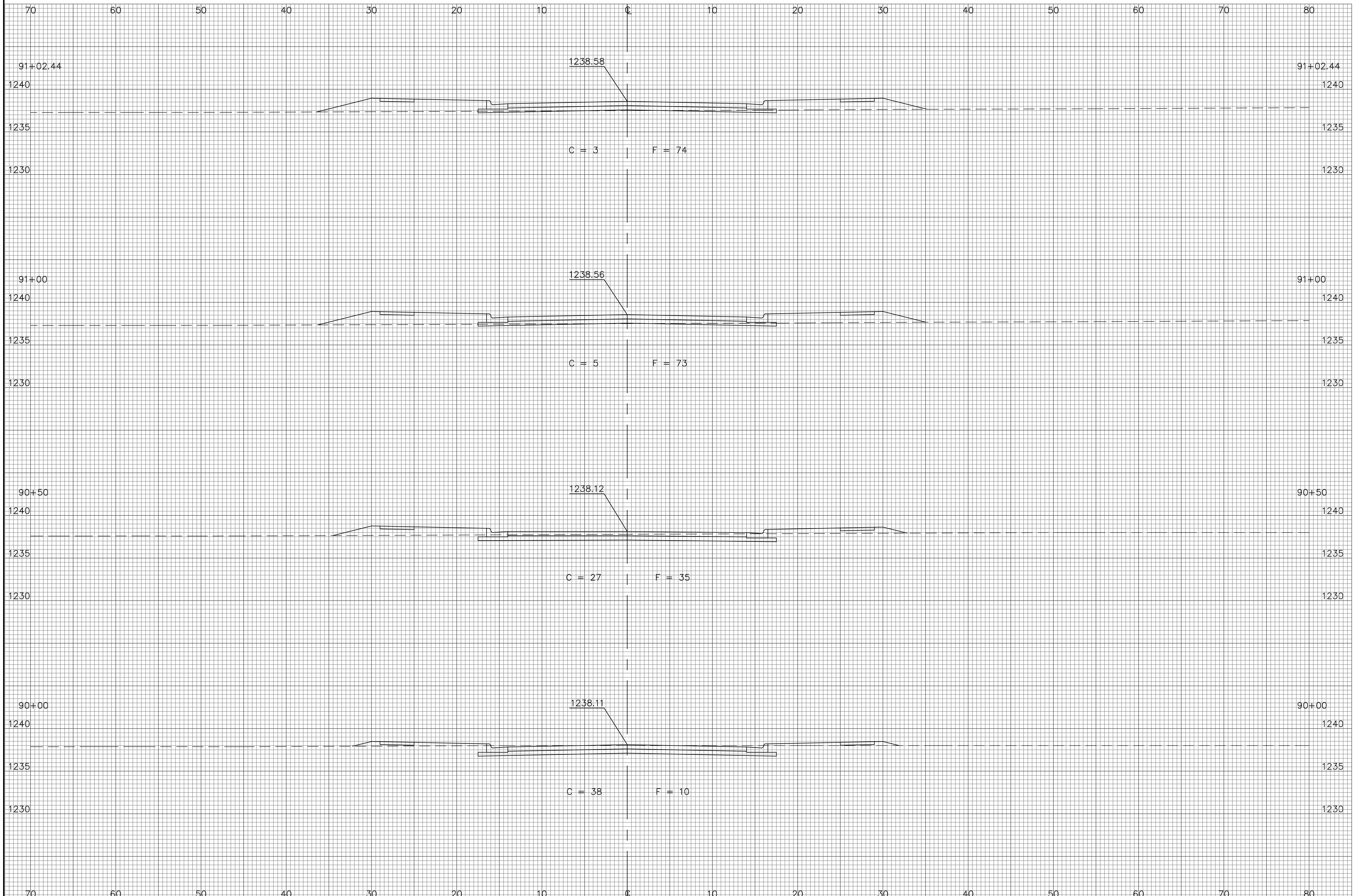
NO.	DATE	DESCRIPTION

SHEET TITLE: CROSS SECTIONS CRYSTAL LAKE COVE

PROJECT PHASE: PHASE I

SHEET NUMBER: 65

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

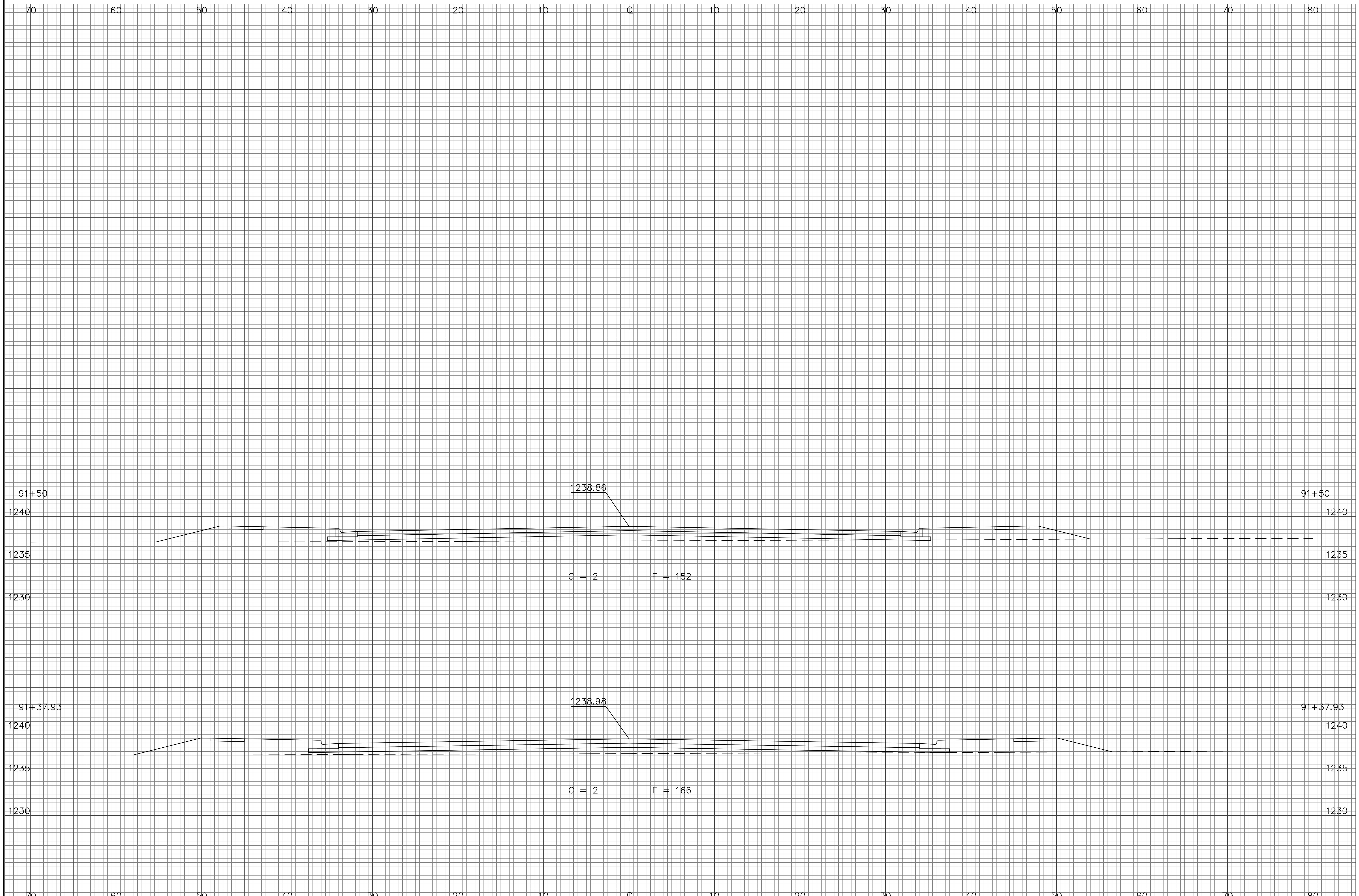
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE PORT

PROJECT PHASE:
PHASE I

SHEET NUMBER:
66

FINAL



SCALE: 1"=5' HORIZ. & VERT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

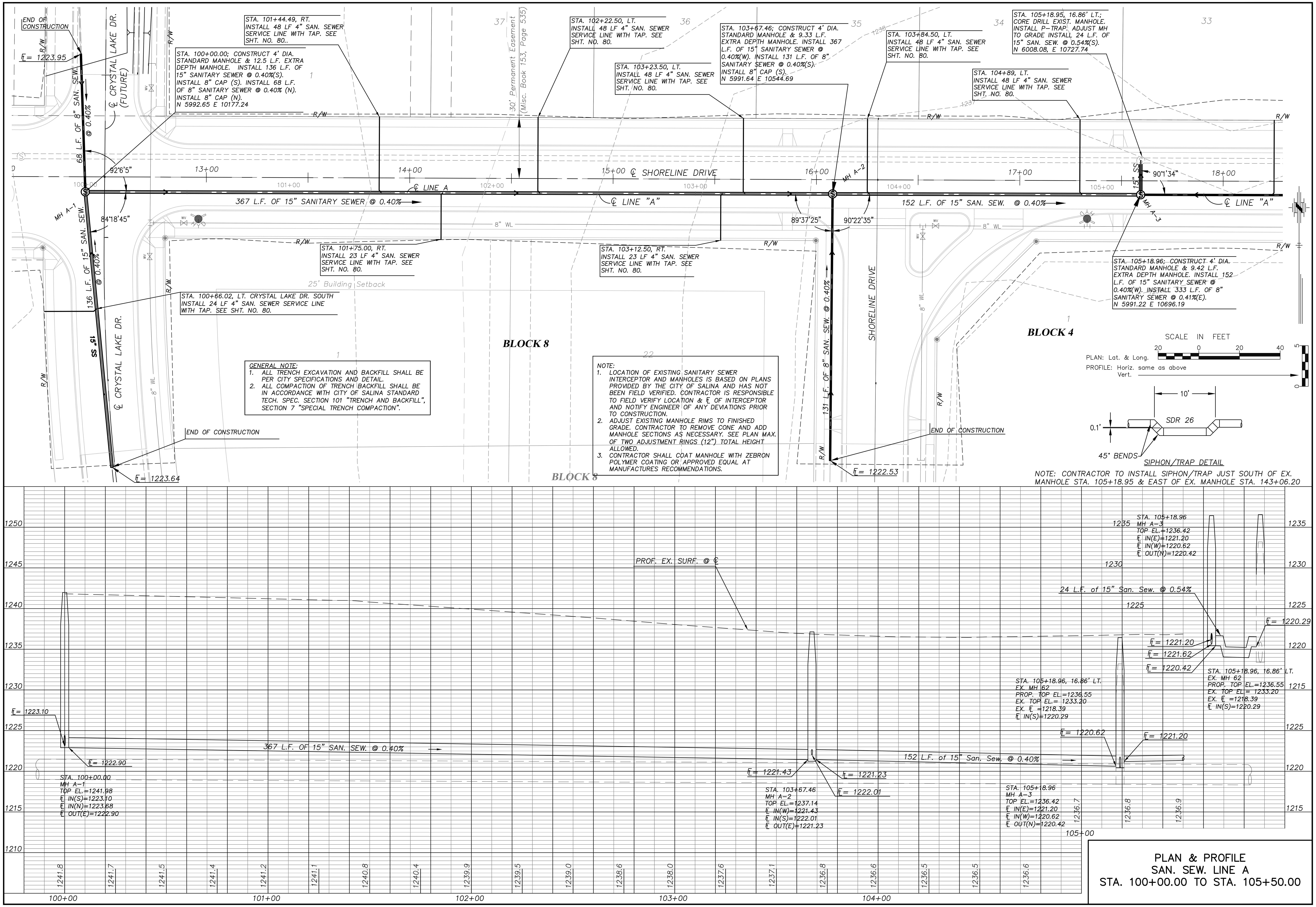
NO.	DATE	DESCRIPTION

SHEET TITLE:
CROSS SECTIONS
CRYSTAL LAKE PORT

PROJECT PHASE:
PHASE I

SHEET NUMBER:
67

FINAL



PLAN & PROFILE
SAN. SEW. LINE A
STA. 100+00.00 TO STA. 105+50.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

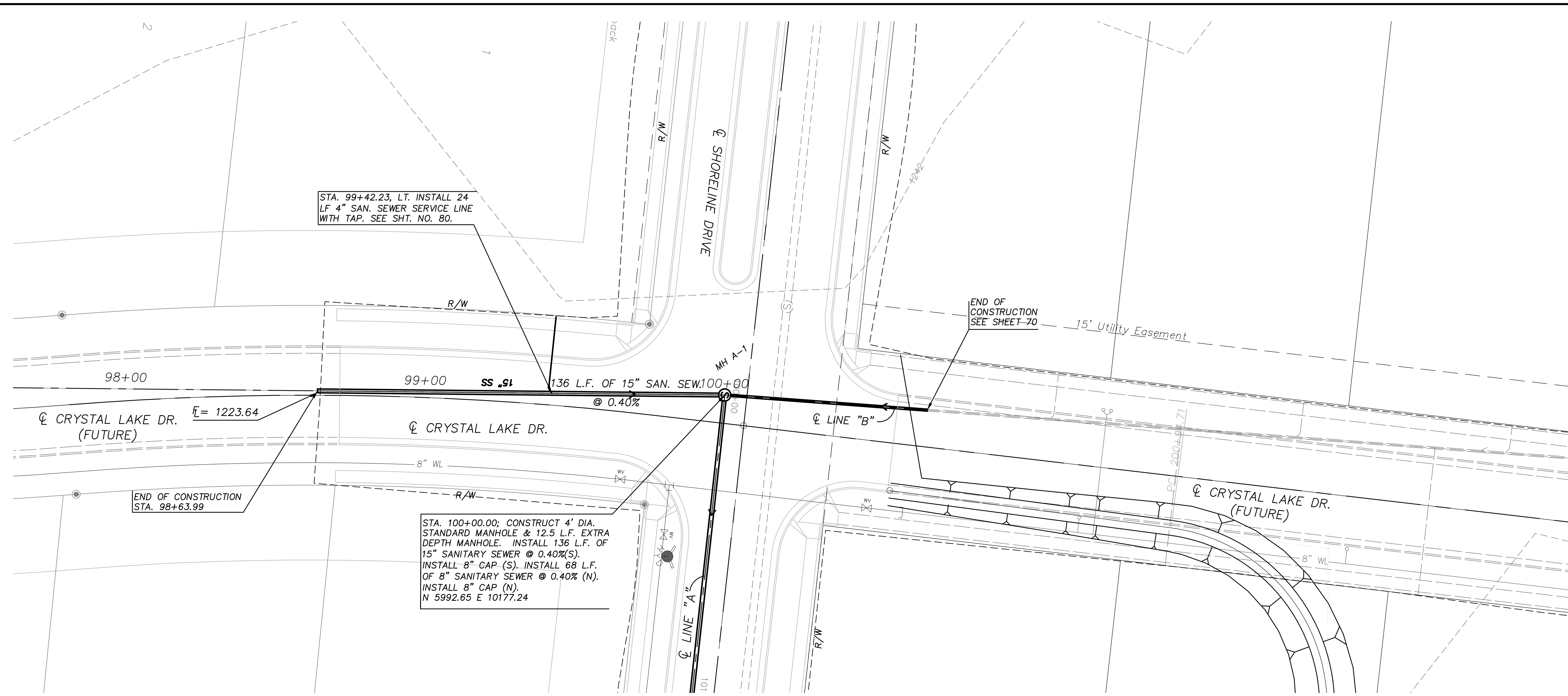
SHEET TITLE: PLAN & PROFILE

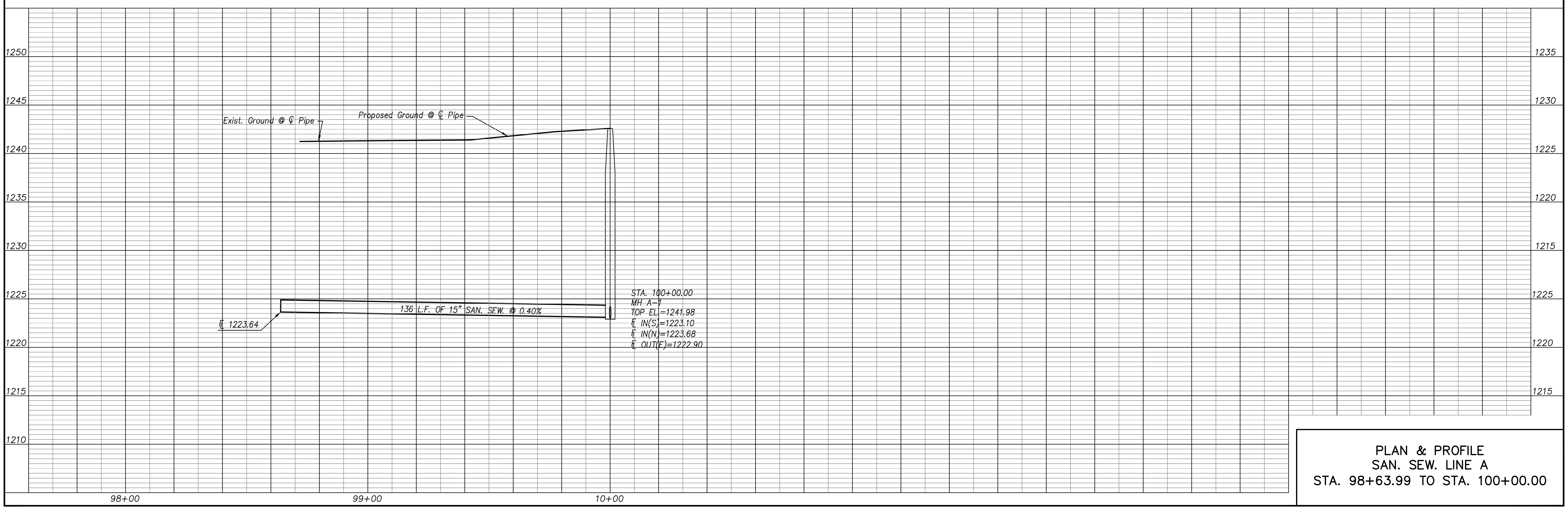
PROJECT PHASE: SAN.SEW. LINE A

SHEET NUMBER: 68

FINAL

NOTE:
1. LOCATION OF EXISTING SANITARY SEWER INTERCEPTOR AND MANHOLES IS BASED ON PLANS PROVIDED BY THE CITY OF SALINA AND HAS NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION & ℄ OF INTERCEPTOR AND NOTIFY ENGINEER OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
2. ADJUST EXISTING MANHOLE RIMS TO FINISHED GRADE. CONTRACTOR TO REMOVE CONE AND ADD MANHOLE SECTIONS AS NECESSARY. SEE PLAN MAX. OF TWO ADJUSTMENT RINGS (12") TOTAL HEIGHT ALLOWED.
3. CONTRACTOR SHALL COAT MANHOLE WITH ZEBRON POLYMER COATING OR APPROVED EQUAL AT MANUFACTURES RECOMMENDATIONS.





PLAN & PROFILE
SAN. SEW. LINE A
STA. 98+63.99 TO STA. 100+00.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

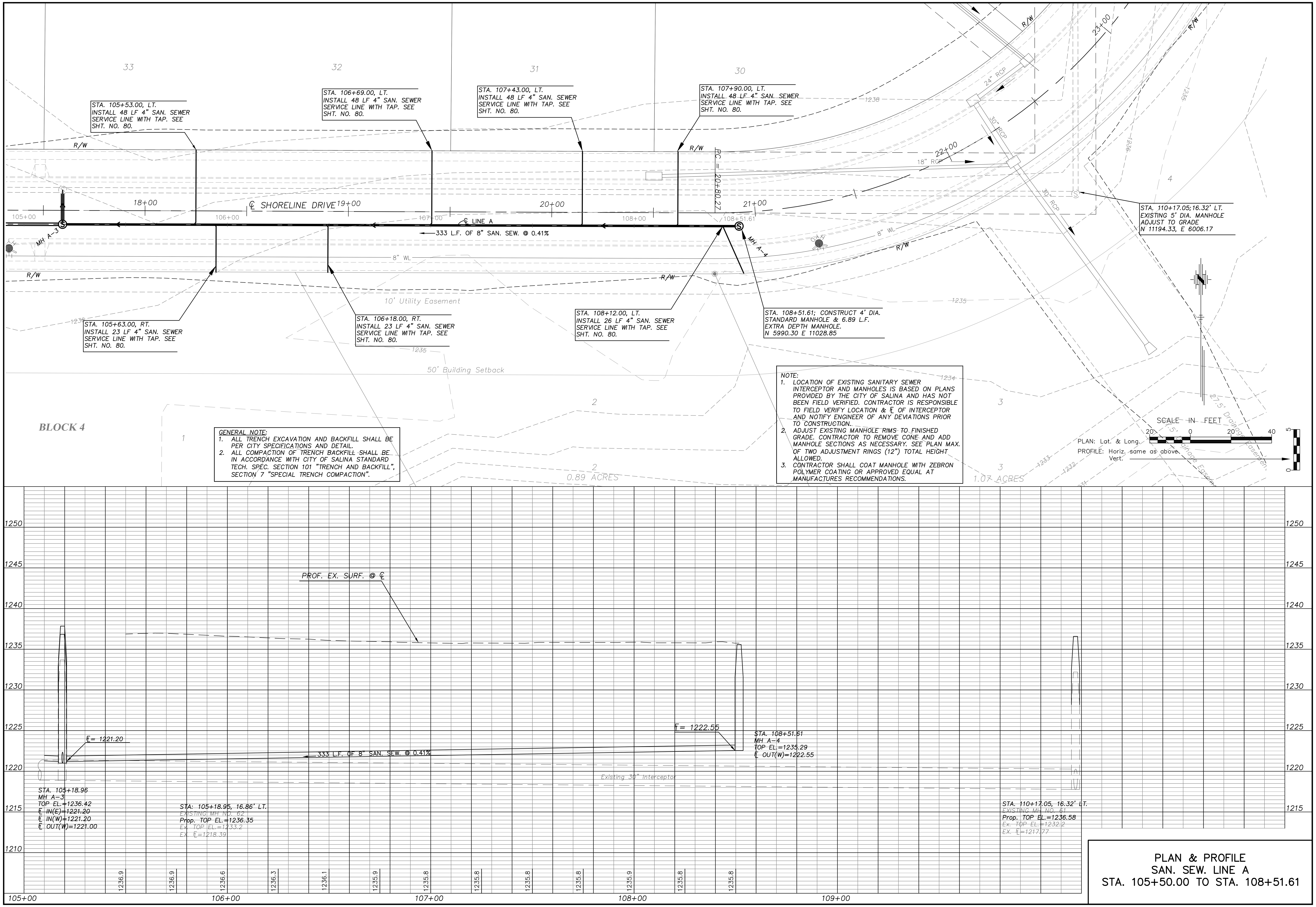
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE A

SHEET NUMBER: 68A

FINAL



PLAN & PROFILE
SAN. SEW. LINE A
STA. 105+50.00 TO STA. 108+51.61

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

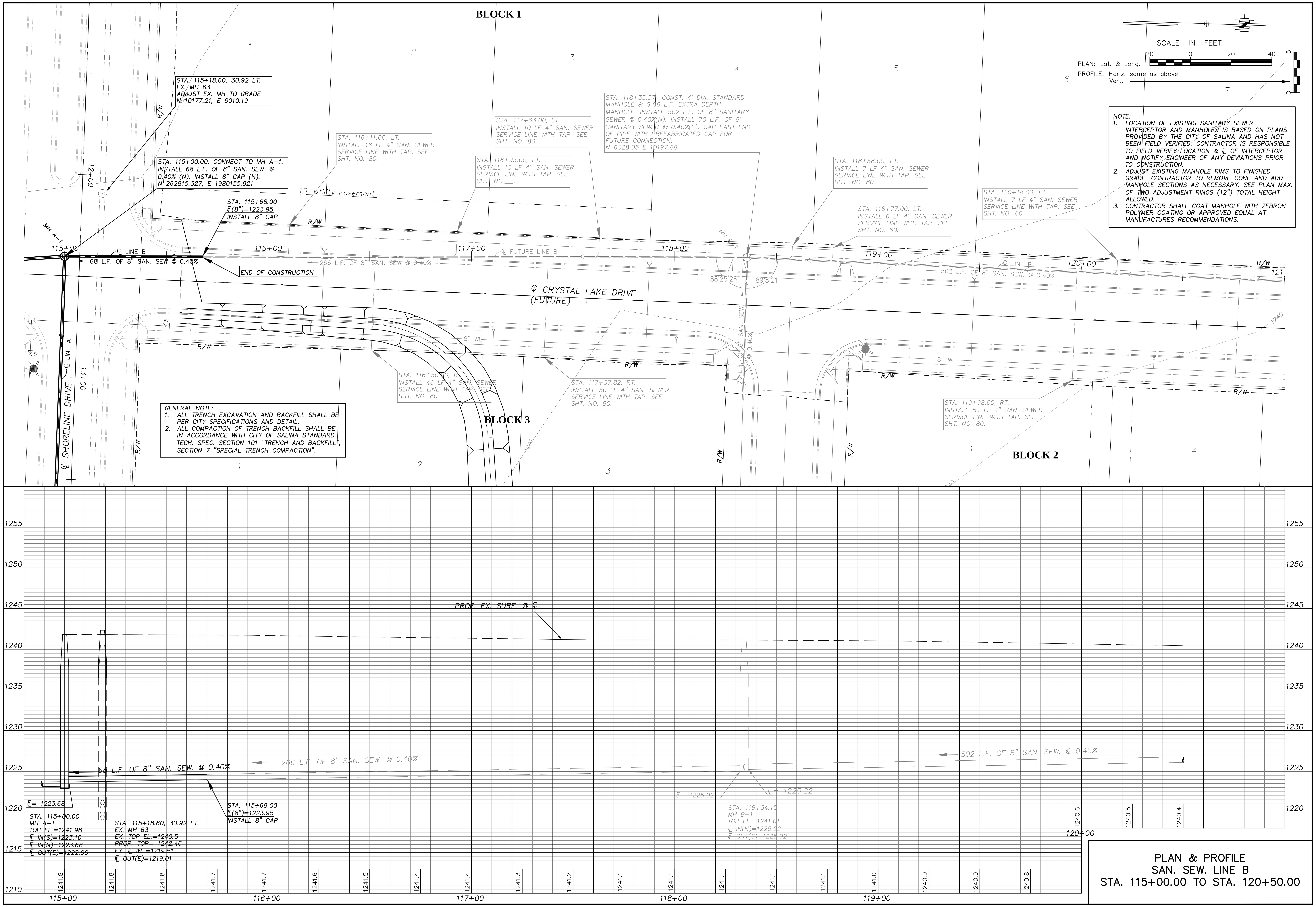
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE A

SHEET NUMBER: 69

FINAL



PLAN & PROFILE
SAN. SEW. LINE B
STA. 115+00.00 TO STA. 120+50.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

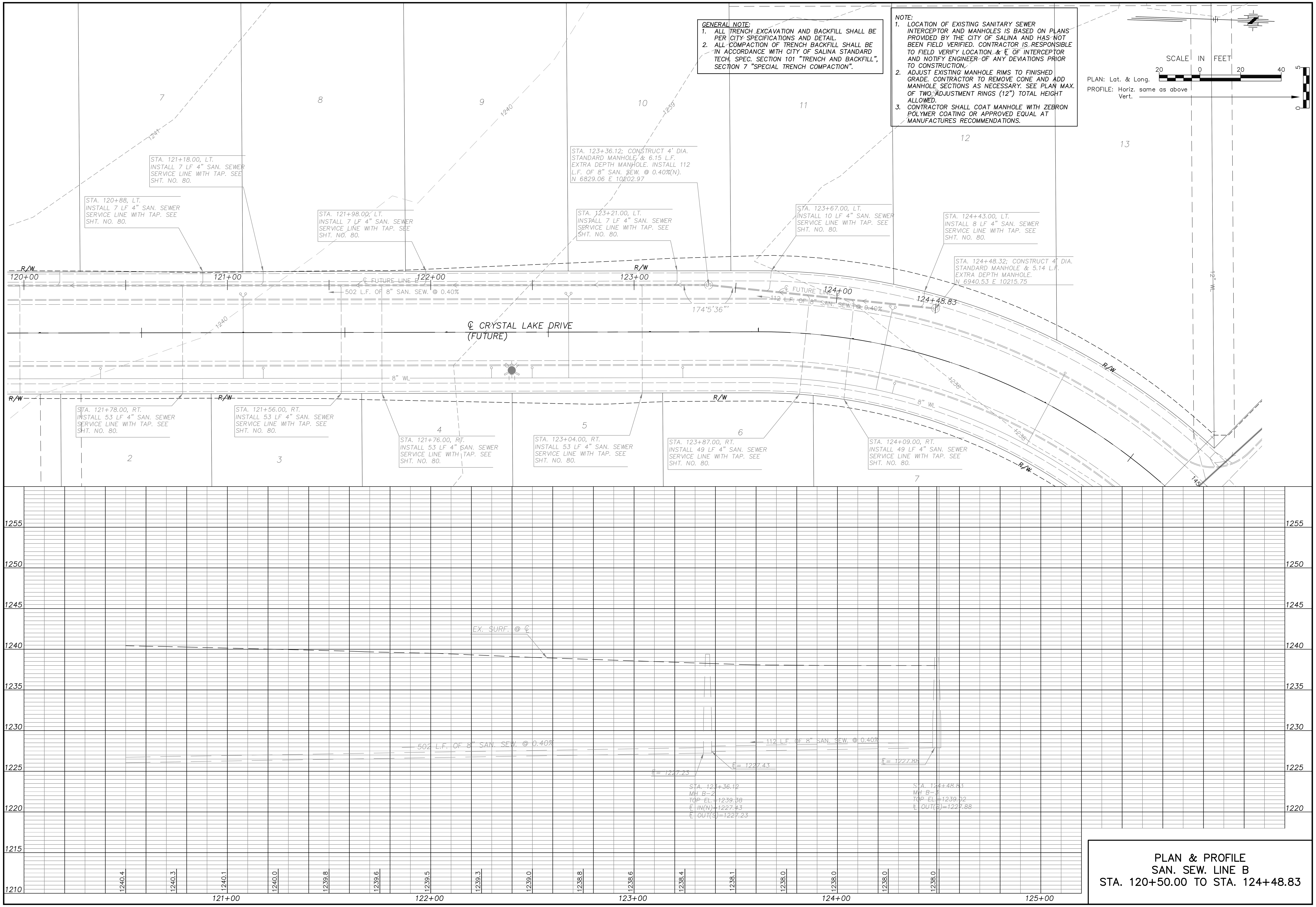
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE B

SHEET NUMBER: 70

FINAL



PLAN & PROFILE
SAN. SEW. LINE B
STA. 120+50.00 TO STA. 124+48.83

SEAL:

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS

DESIGNER:

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STONE LAKE ADDITION SUBDIVISION
SALINA, KANSAS

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

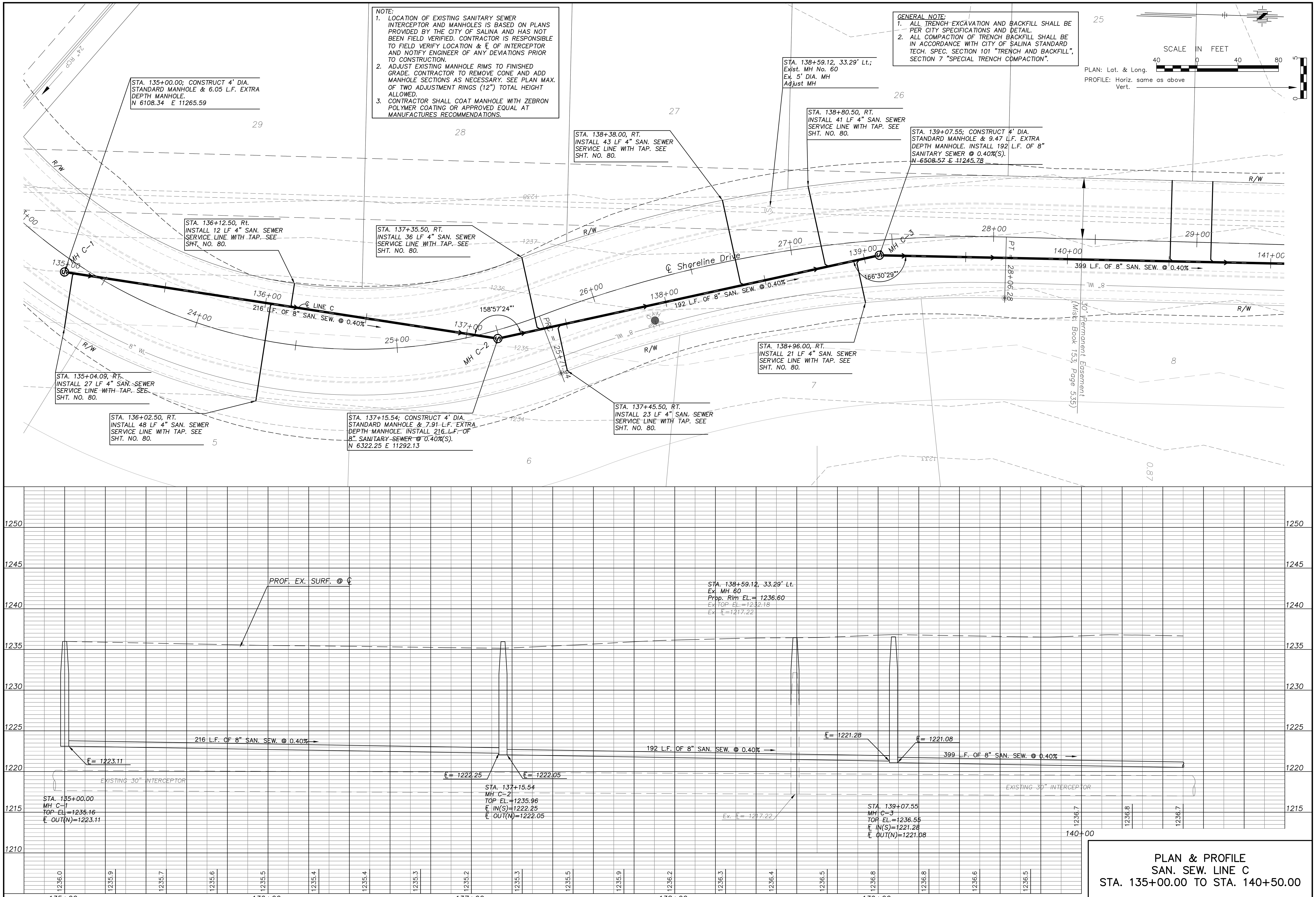
PROJECT PHASE: SAN.SEW. LINE B

SHEET NUMBER: 71

FINAL

NOTE:
1. LOCATION OF EXISTING SANITARY SEWER INTERCEPTOR AND MANHOLES IS BASED ON PLANS PROVIDED BY THE CITY OF SALINA AND HAS NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION & ℄ OF INTERCEPTOR AND NOTIFY ENGINEER OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
2. ADJUST EXISTING MANHOLE RIMS TO FINISHED GRADE. CONTRACTOR TO REMOVE CONE AND ADD MANHOLE SECTIONS AS NECESSARY. SEE PLAN MAX. OF TWO ADJUSTMENT RINGS (12") TOTAL HEIGHT ALLOWED.
3. CONTRACTOR SHALL COAT MANHOLE WITH ZEBRON POLYMER COATING OR APPROVED EQUAL AT MANUFACTURES RECOMMENDATIONS.

GENERAL NOTE:
1. ALL TRENCH EXCAVATION AND BACKFILL SHALL BE PER CITY SPECIFICATIONS AND DETAIL.
2. ALL COMPACTION OF TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF SALINA STANDARD TECH. SPEC. SECTION 101 "TRENCH AND BACKFILL", SECTION 7 "SPECIAL TRENCH COMPACTION".



PLAN & PROFILE
SAN. SEW. LINE C
STA. 135+00.00 TO STA. 140+50.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

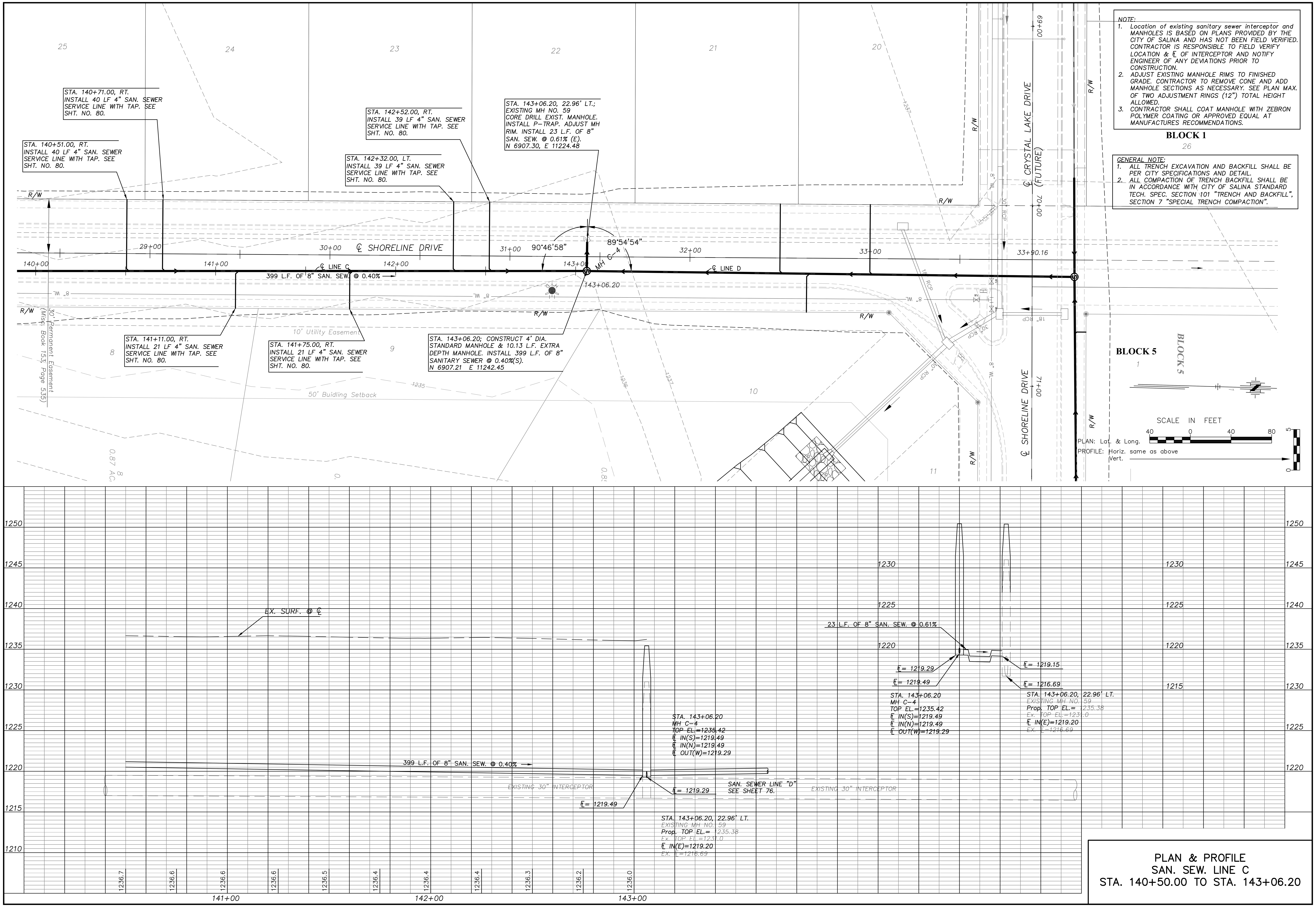
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE C

SHEET NUMBER: 72

FINAL



PLAN & PROFILE
SAN. SEW. LINE C
STA. 140+50.00 TO STA. 143+06.20

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: CamPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

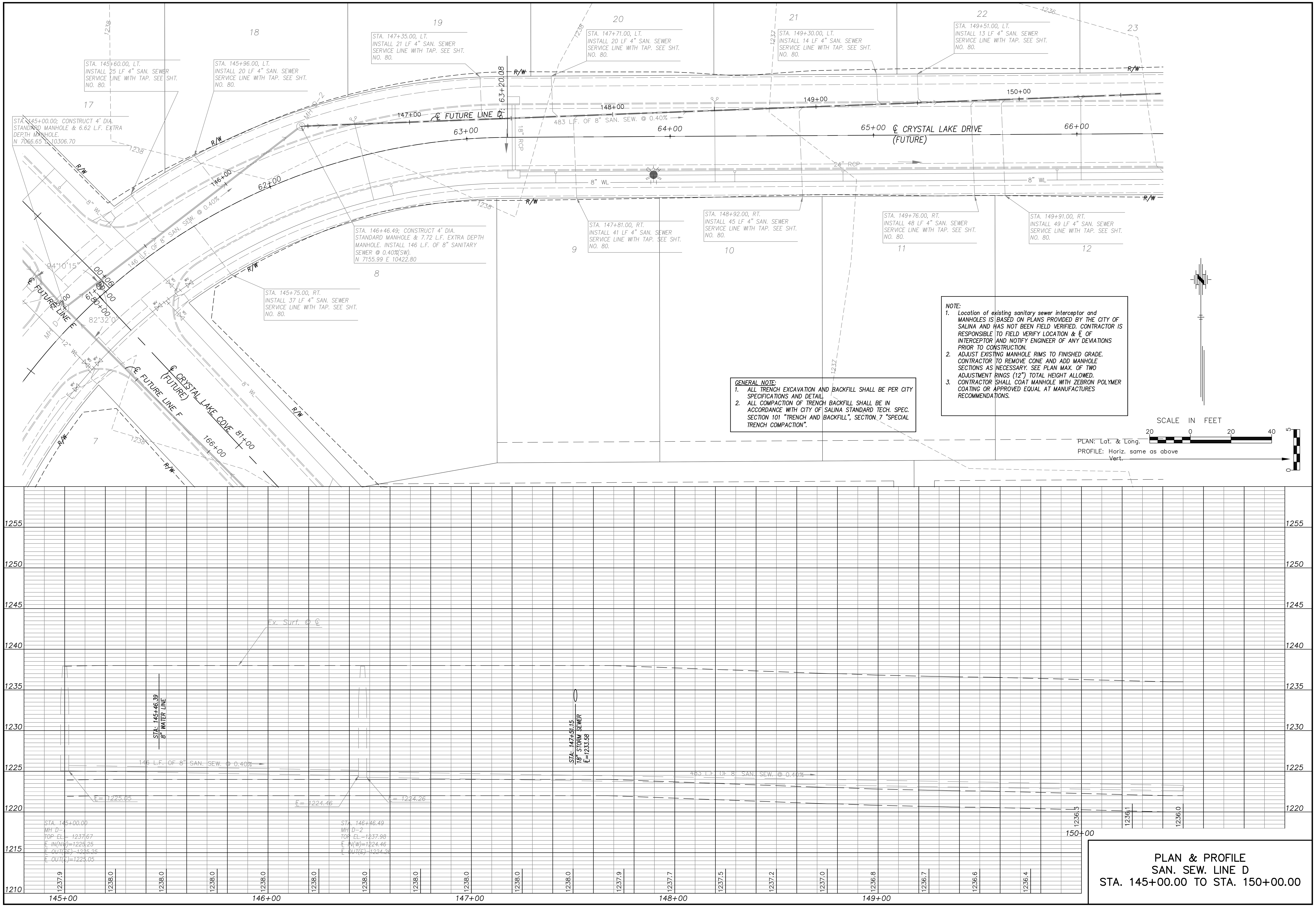
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE C

SHEET NUMBER: 73

FINAL



GENERAL NOTE:

1. ALL TRENCH EXCAVATION AND BACKFILL SHALL BE PER CITY SPECIFICATIONS AND DETAIL.
2. ALL COMPACTION OF TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF SALINA STANDARD TECH. SPEC. SECTION 101 "TRENCH AND BACKFILL", SECTION 7 "SPECIAL TRENCH COMPACTION".

NOTE:

1. Location of existing sanitary sewer interceptor and MANHOLES IS BASED ON PLANS PROVIDED BY THE CITY OF SALINA AND HAS NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION & ℄ OF INTERCEPTOR AND NOTIFY ENGINEER OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
2. ADJUST EXISTING MANHOLE RIMS TO FINISHED GRADE. CONTRACTOR TO REMOVE CONE AND ADD MANHOLE SECTIONS AS NECESSARY. SEE PLAN MAX. OF TWO ADJUSTMENT RINGS (12") TOTAL HEIGHT ALLOWED.
3. CONTRACTOR SHALL COAT MANHOLE WITH ZEBRON POLYMER COATING OR APPROVED EQUAL AT MANUFACTURES RECOMMENDATIONS.

PLAN & PROFILE
SAN. SEW. LINE D
STA. 145+00.00 TO STA. 150+00.00

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

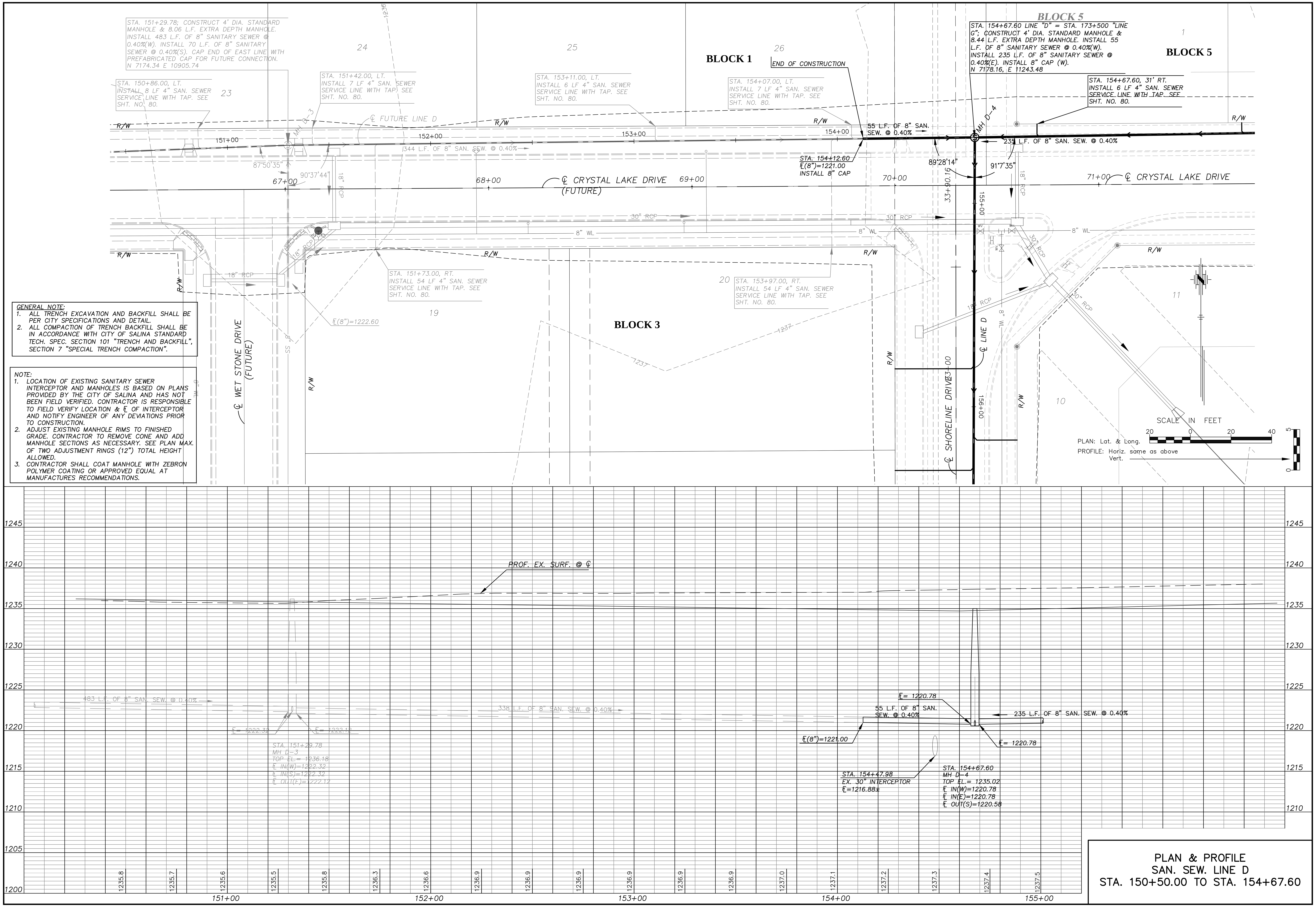
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE D

SHEET NUMBER: 74

FINAL



PLAN & PROFILE
SAN. SEW. LINE D
STA. 150+50.00 TO STA. 154+67.60

SEAL:

DESIGNER:

Cook, Flatt & Strobel
ENGINEERS P.A.

CFS

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

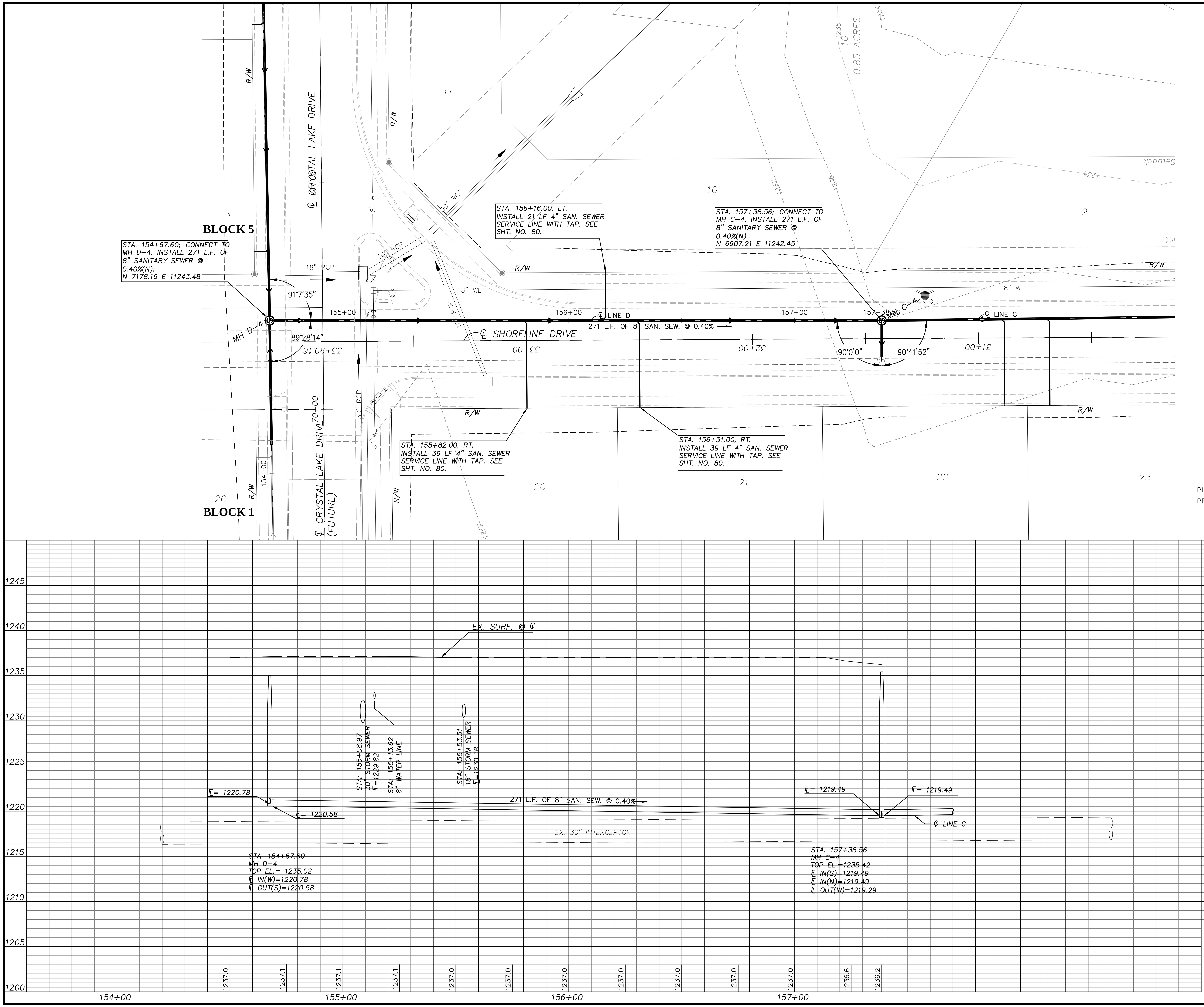
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE D

SHEET NUMBER: 75

FINAL



NOTE:
1. Location of existing sanitary sewer interceptor and manholes is based on plans provided by the City of Salina and has not been field verified. Contractor is responsible to field verify location & ℄ of interceptor and notify engineer of any deviations prior to construction.
2. Adjust existing manhole rims to finished grade. Contractor to remove cone and add manhole sections as necessary. See plan max. of two adjustment rings (12") allowed.
3. Contractor shall coat manhole with Zebron Polymer Coating or approved equal at manufactures recommendations.

GENERAL NOTE:
1. ALL TRENCH EXCAVATION AND BACKFILL SHALL BE PER CITY SPECIFICATIONS AND DETAIL.
2. ALL COMPACTION OF TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF SALINA STANDARD TECH. SPEC. SECTION 101 "TRENCH AND BACKFILL", SECTION 7 "SPECIAL TRENCH COMPACTION".

PLAN & PROFILE
SAN. SEW. LINE D
STA. 154+67.60 TO STA. 157+38.56

SEAL:

Cook, Flatt & Strobel ENGINEERS P.A.

DESIGNER: CFS

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

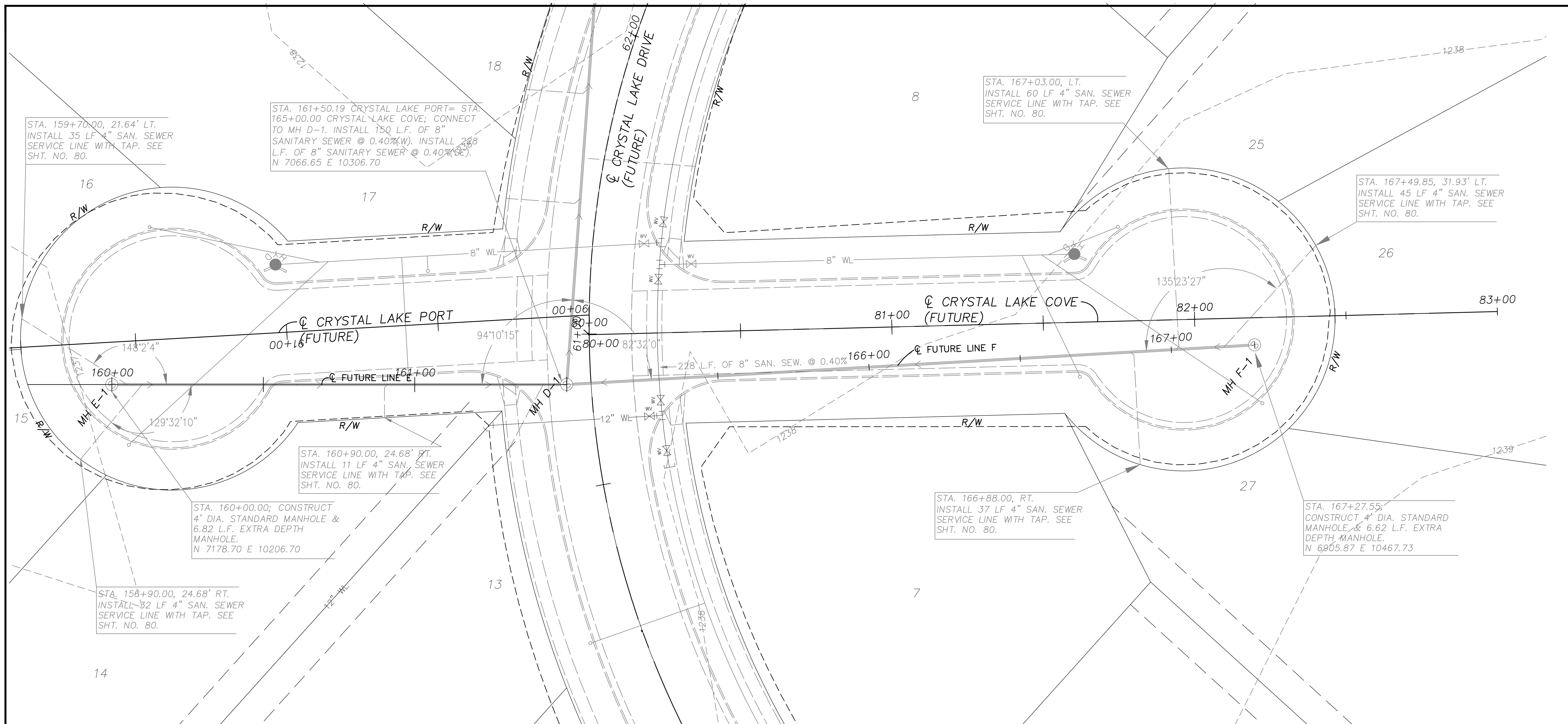
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE D

SHEET NUMBER: 76

FINAL



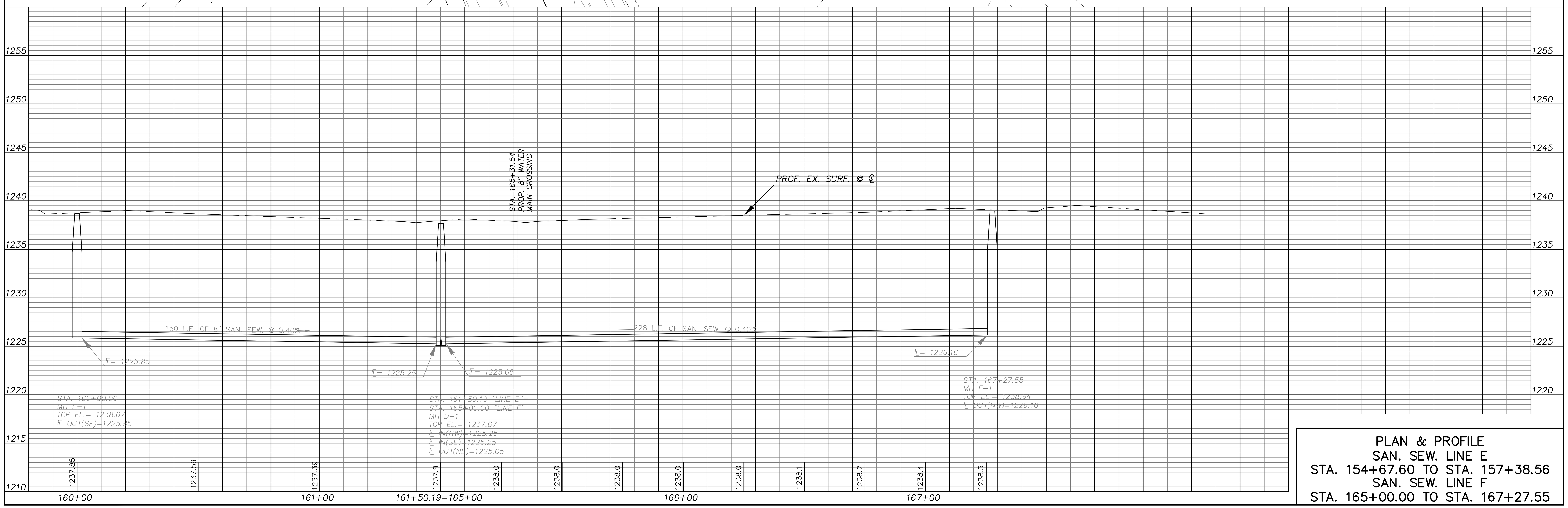
NOTE:
1. *Location of existing sanitary sewer interceptor and manholes is based on plans provided by the City of Salina and has not been field verified. Contractor is responsible to field verify location & ℄ of interceptor and notify engineer of any deviations prior to construction.*
2. *Adjust existing manhole rims to finished grade. Contractor to remove cone and add manhole sections as necessary. See plan max. of two adjustment rings (12") allowed.*
3. *Contractor shall coat manhole with Zebron Polymer Coating or approved equal at manufactures recommendations.*

GENERAL NOTE:
1. *ALL TRENCH EXCAVATION AND BACKFILL SHALL BE PER CITY SPECIFICATIONS AND DETAIL.*
2. *ALL COMPACTION OF TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF SALINA STANDARD TECH. SPEC. SECTION 101 "TRENCH AND BACKFILL", SECTION 7 "SPECIAL TRENCH COMPACTION".*

SCALE IN FEET

PLAN: Lat. & Long.

PROFILE: Horiz. same as above Vert.



PLAN & PROFILE
SAN. SEW. LINE E
STA. 154+67.60 TO STA. 157+38.56
SAN. SEW. LINE F
STA. 165+00.00 TO STA. 167+27.55

SEAL:

Cook, Flatt & Strobel ENGINEERS P.A.

CFS

DESIGNER:

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 67401

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

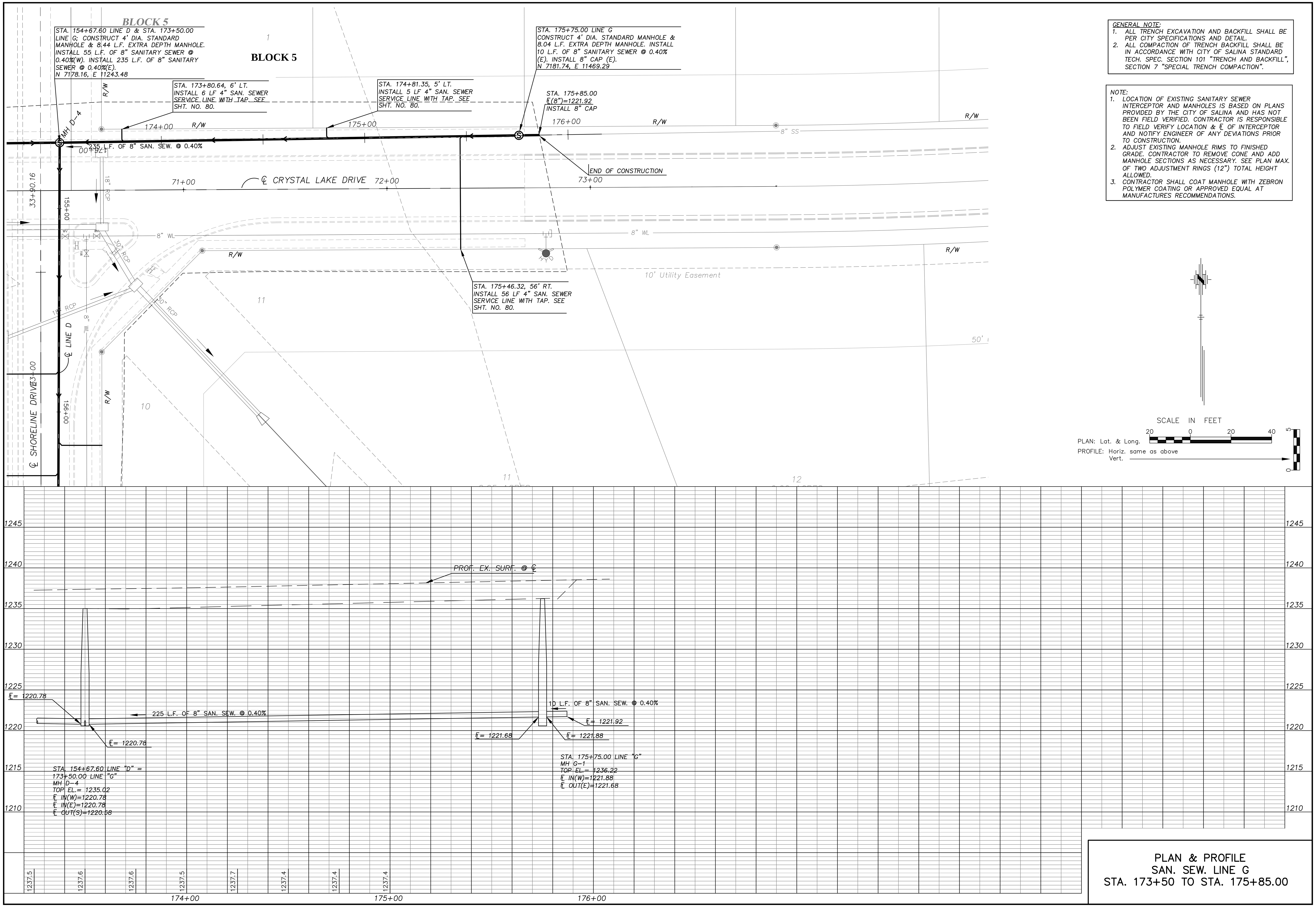
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE E&F

SHEET NUMBER: 77

FINAL



PLAN & PROFILE
SAN. SEW. LINE G
STA. 173+50 TO STA. 175+85.00

SEAL:

DESIGNER: CFS
Cook, Flatt & Strobel
ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

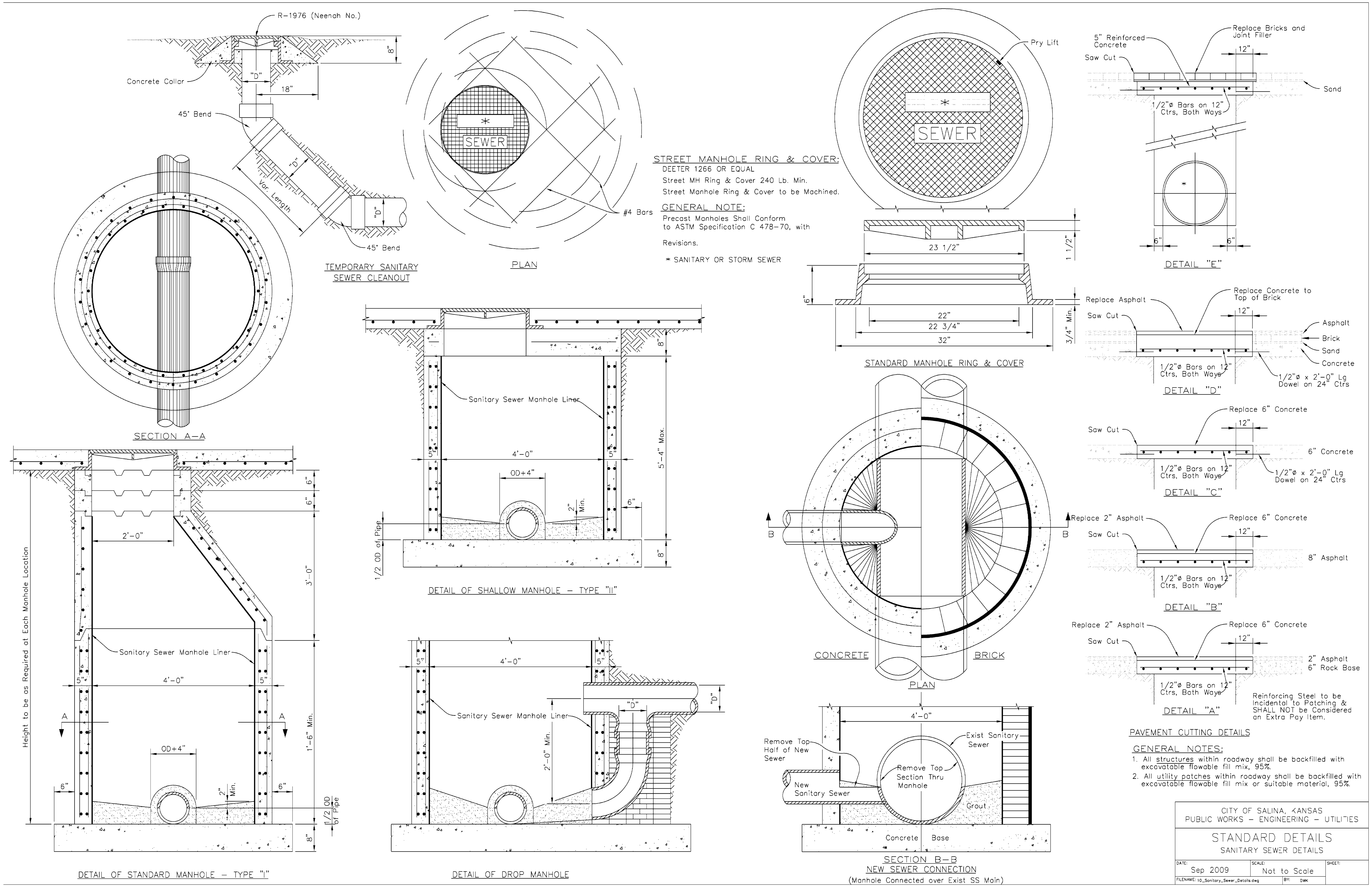
NO.	DATE	DESCRIPTION

SHEET TITLE: PLAN & PROFILE

PROJECT PHASE: SAN.SEW. LINE G

SHEET NUMBER: 77A

FINAL



SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

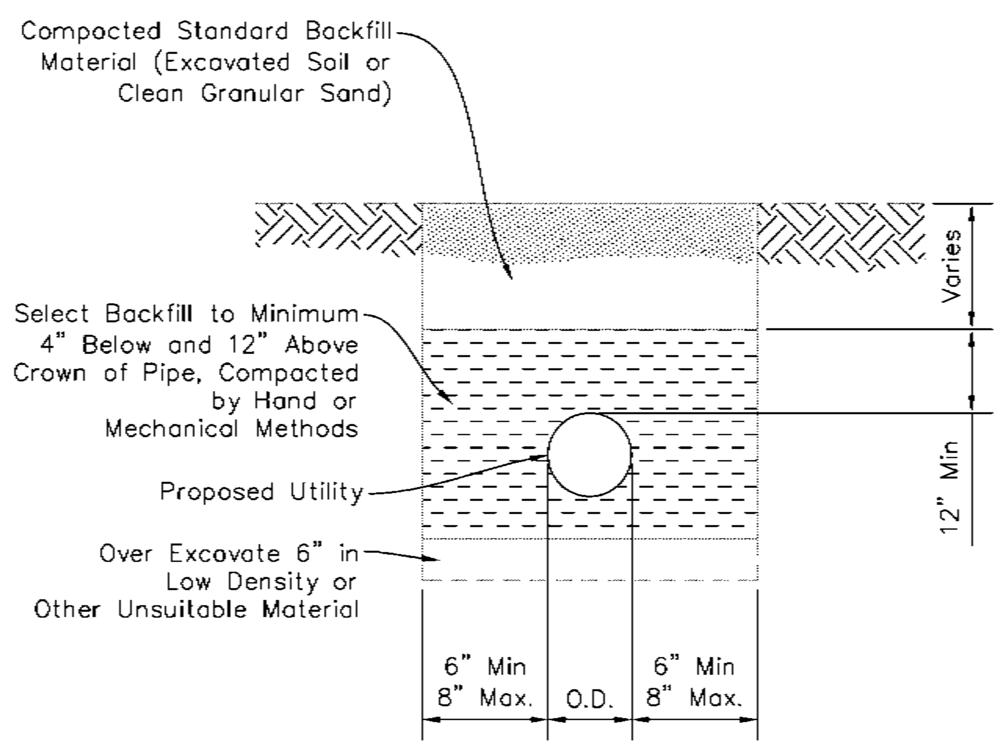
SHEET TITLE: Sanitary Sewer Details

PROJECT PHASE: PHASE I

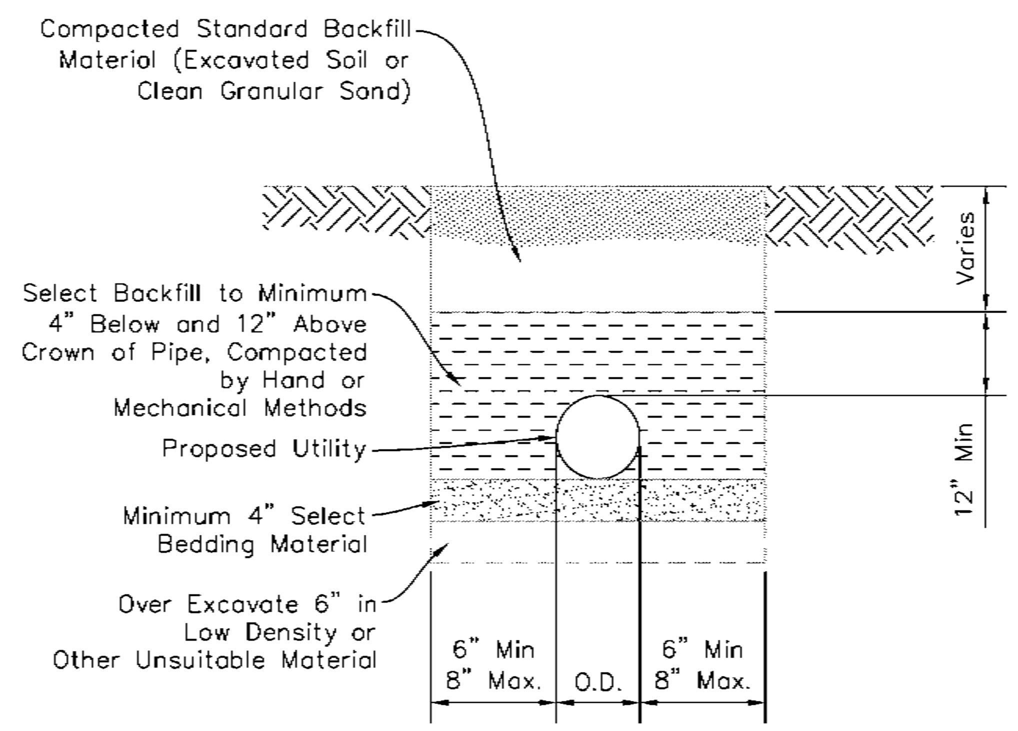
SHEET NUMBER: 78

FINAL

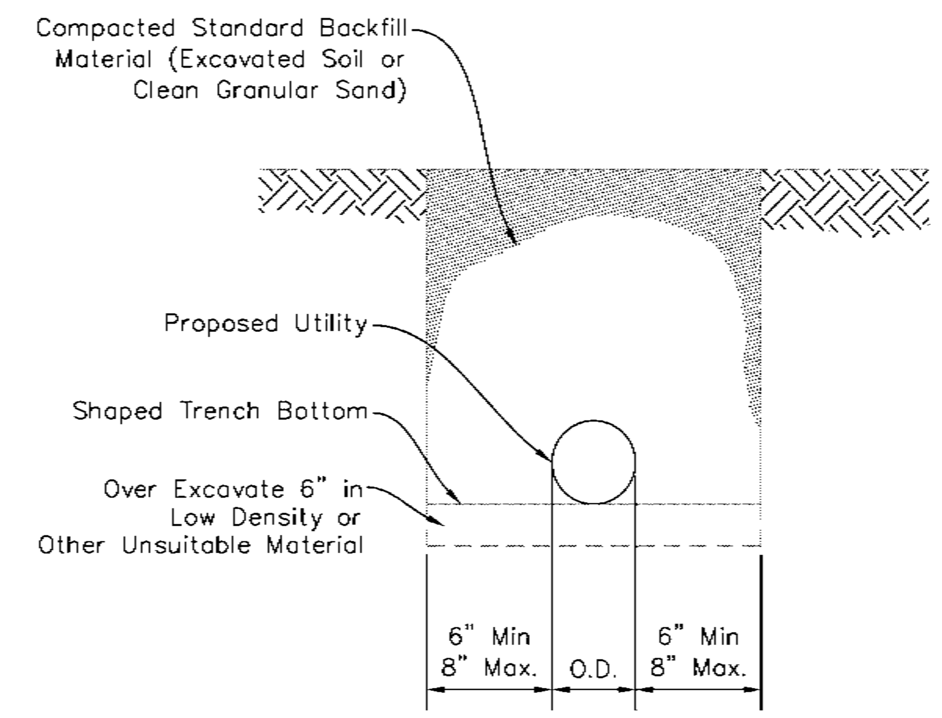
DATE	REVISIONS



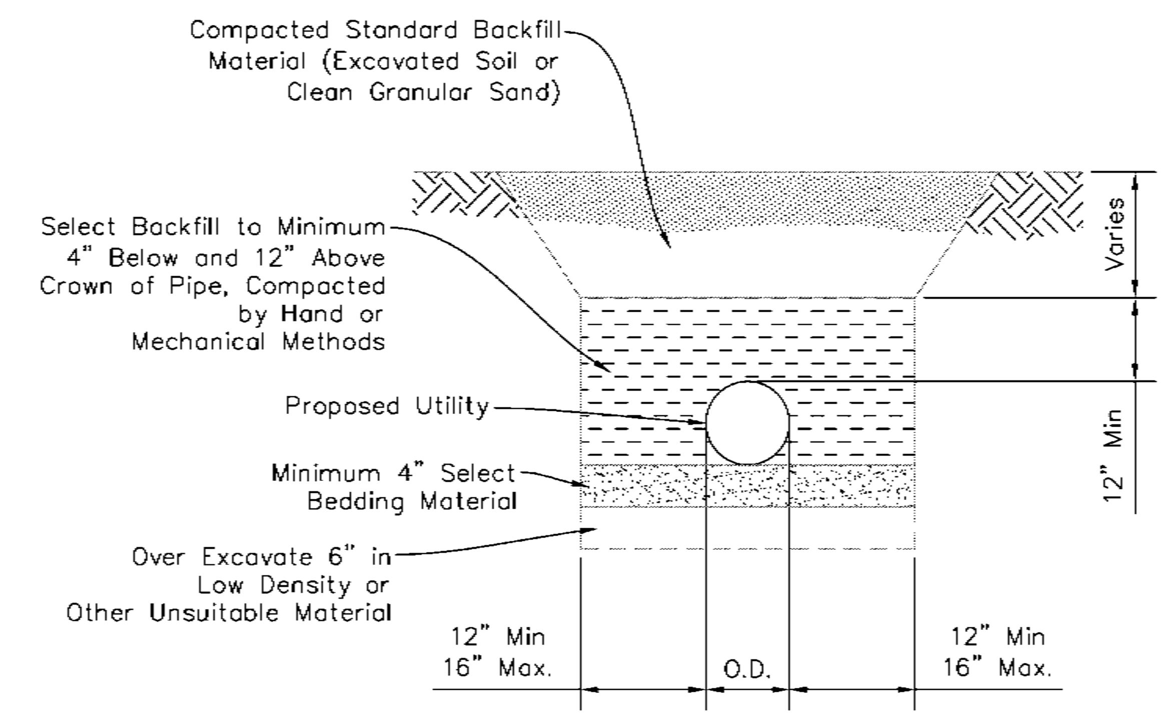
TRENCHING FOR PVC
SEWER FORCE MAIN & WATER PIPE



TRENCHING FOR PVC
GRAVITY SEWER PIPE

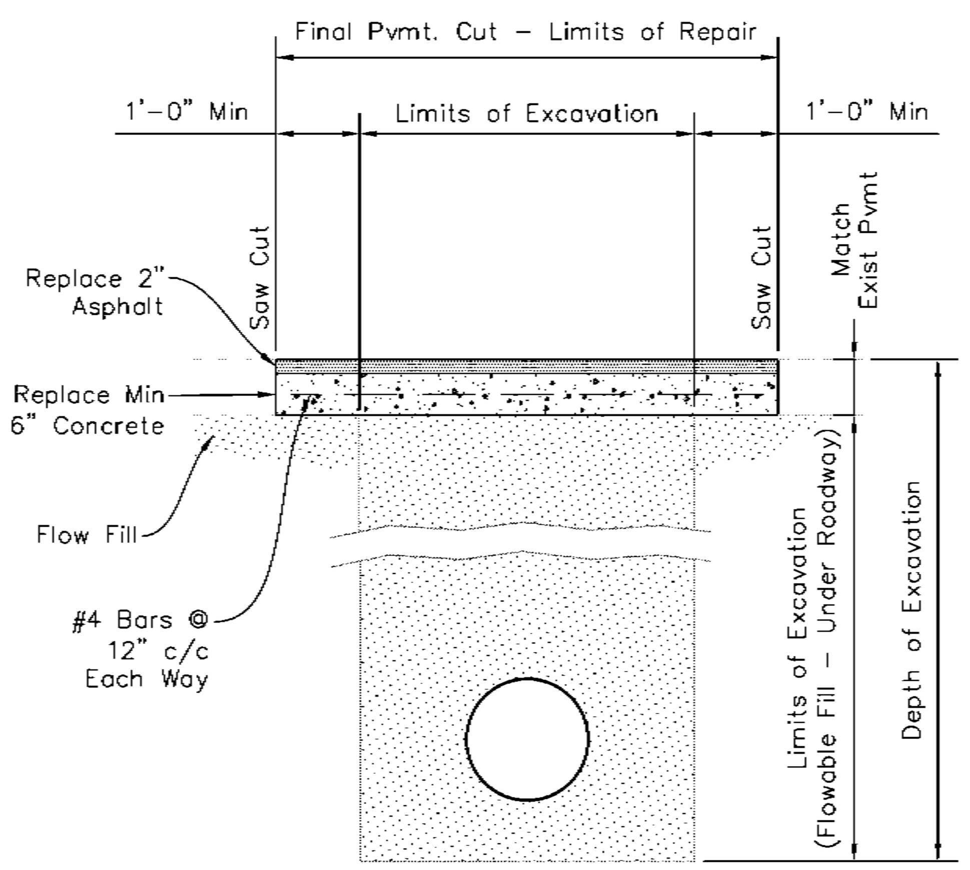


TRENCHING FOR CLAY GRAVITY SEWER,
DUCTILE IRON WATER, AND DUCTILE IRON SEWER

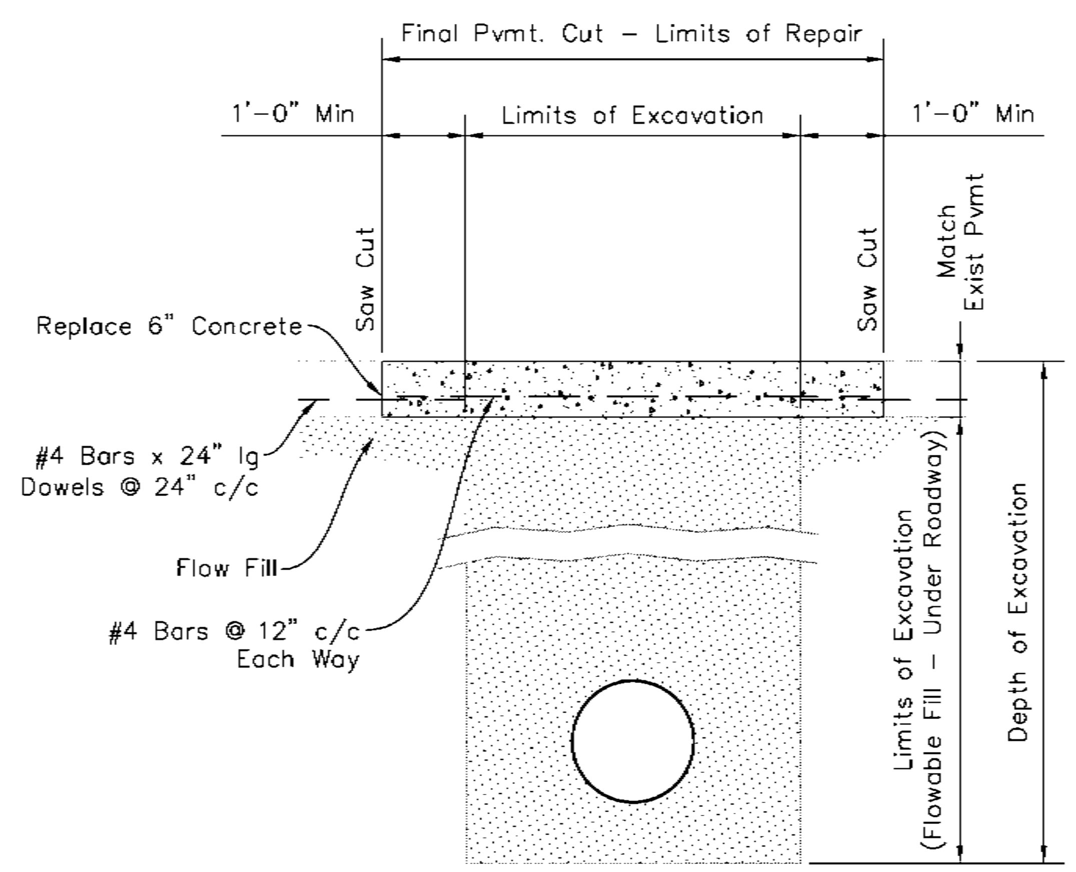


TRENCHING FOR CLAY
GRAVITY SEWER PIPE OVER 20' DEEP

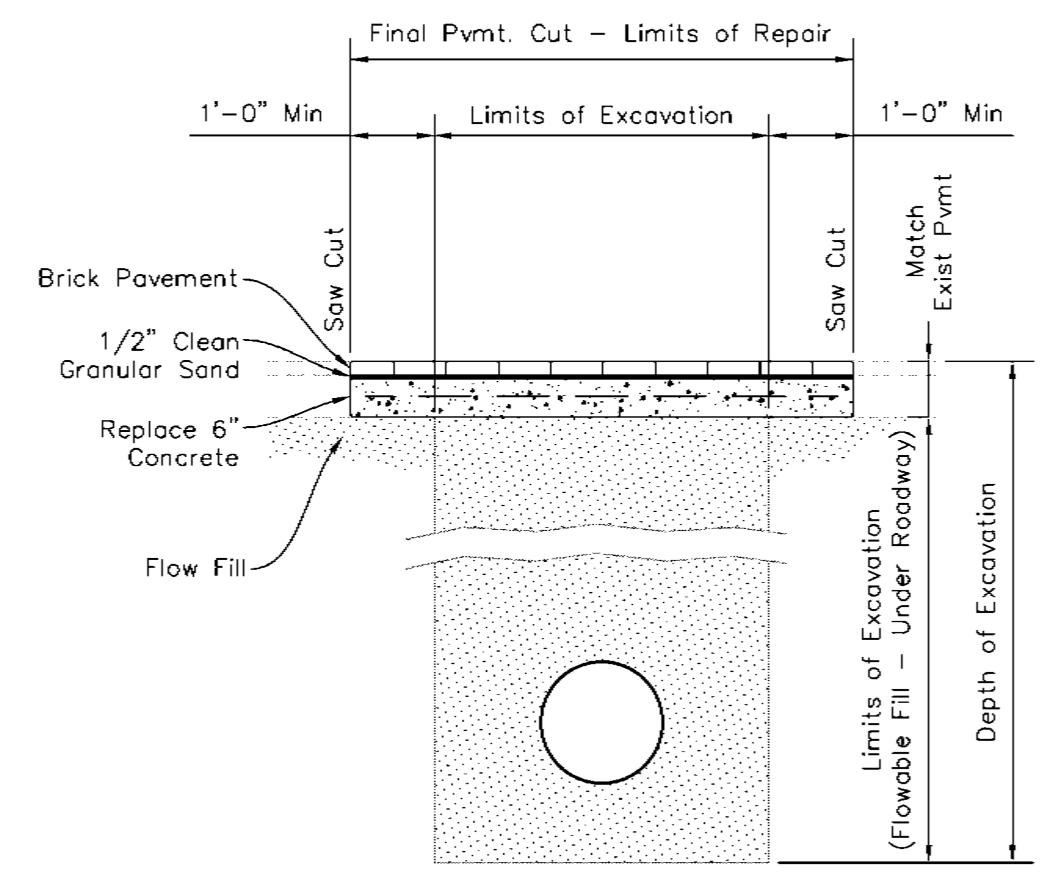
TYPICAL TRENCHING DETAILS
(NOT UNDER PAVEMENT)



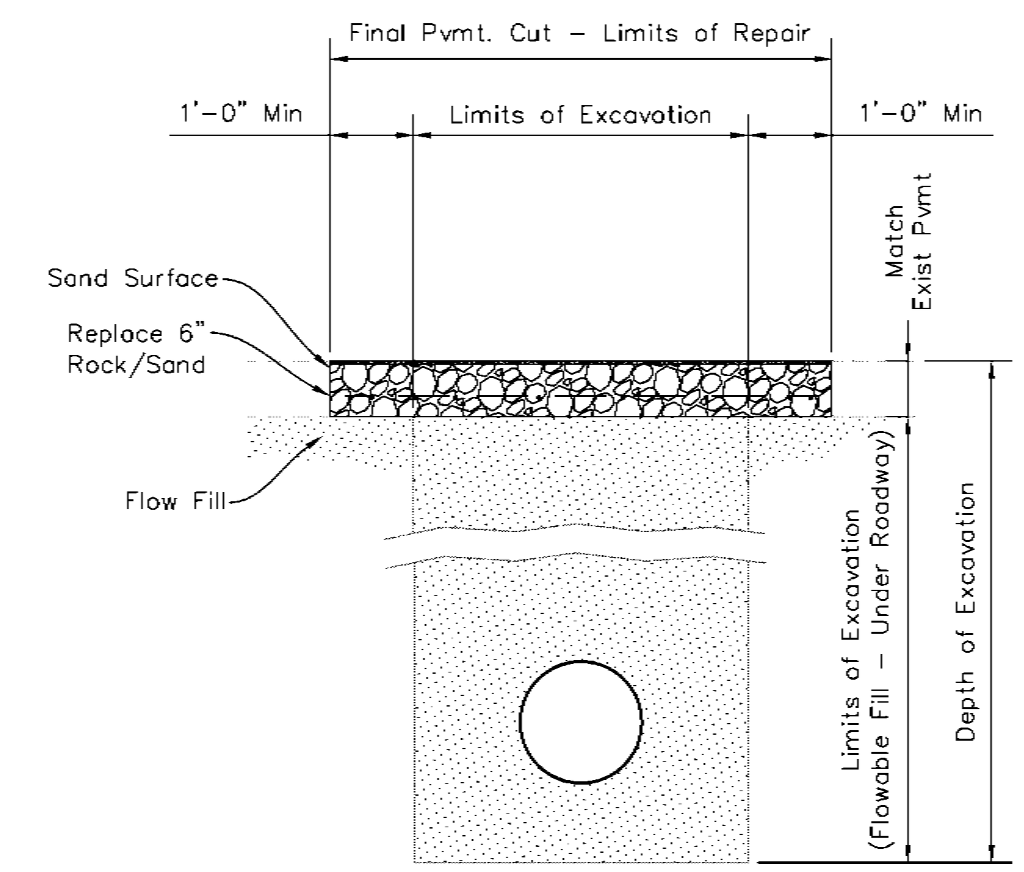
ASPHALT PAVEMENT DETAILS



CONCRETE PAVEMENT DETAILS



BRICK PAVEMENT DETAILS

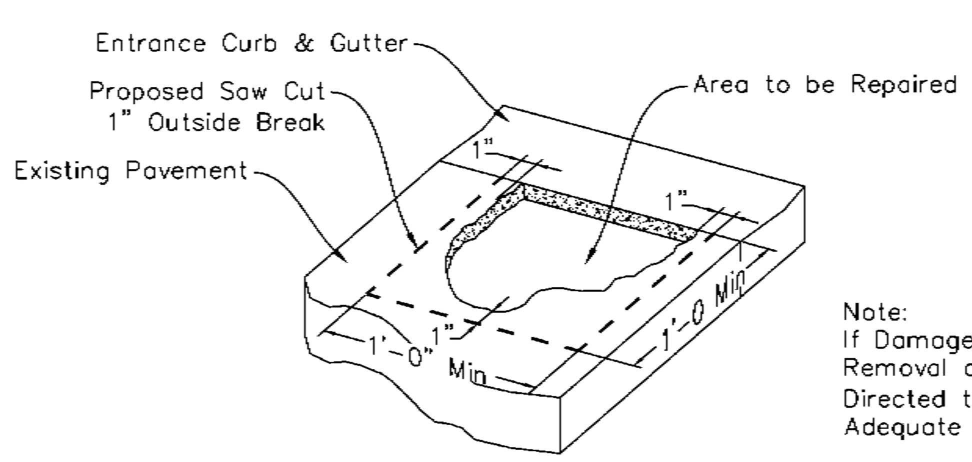


AGGREGATE PAVEMENT DETAILS

UTILITY PATCH DETAILS

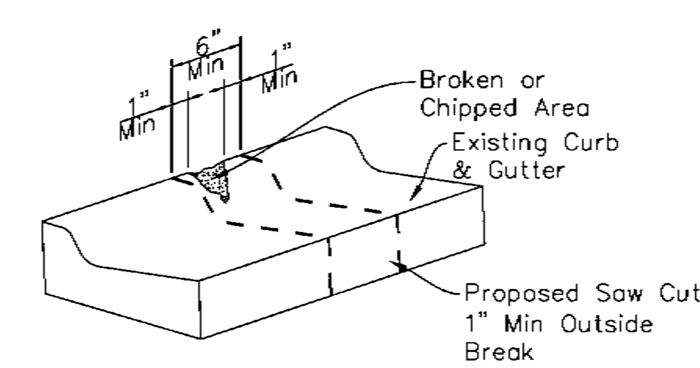
General Notes:
Any excavation left open overnight in any roadway shall be securely plated. Plates shall be properly anchored and all edges of the plate shall be ramped with asphalt surface mix to prevent rattling.

Permanent pavement markings shall be replaced with like materials within fouteen days after pavement surface has been replaced, unless otherwise authorized by the City Engineer.



Note:
If Damage to the Edge of Pavement Occurs during Removal of Curb & Gutter, the Contractor will be Directed to Saw Cut 3"–4" in Depth to Provide Adequate Bridging and Compaction

PAVEMENT REPAIR



Note:
If Damage to the Edge of Curb & Gutter Occurs during the Removal of Curb & Gutter or Pavement, the Contractor will be Required to Saw Cut through the Entire Depth to Provide for a Clean and Proper Joint.

CURB & GUTTER REPAIR

ROADWAY REPAIR DETAILS

CITY OF SALINA, KANSAS
PUBLIC WORKS – ENGINEERING – UTILITIES

STANDARD DETAILS
TRENCHING AND STREET REPAIR DETAILS

DATE: Sep 2009	SCALE: Not to Scale	SHEET:
FILENAME: 05_Trenching_Street_Repair_Details.dwg	BY: CWK	

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

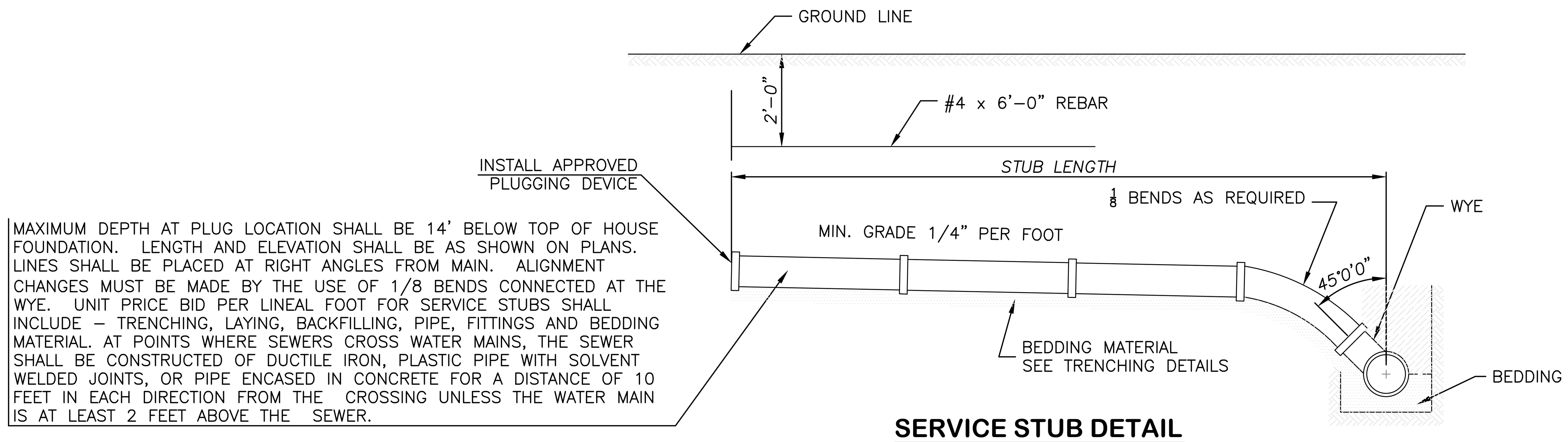
NO.	DATE	DESCRIPTION

SHEET TITLE: Trenching Details

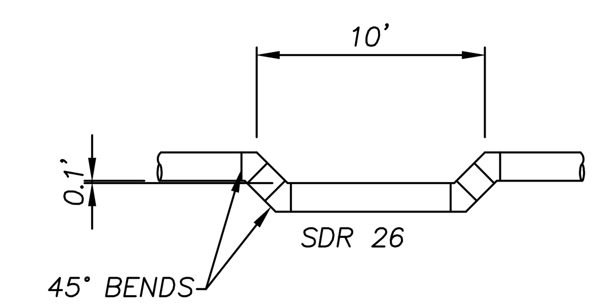
PROJECT PHASE: PHASE I

SHEET NUMBER: 79

FINAL

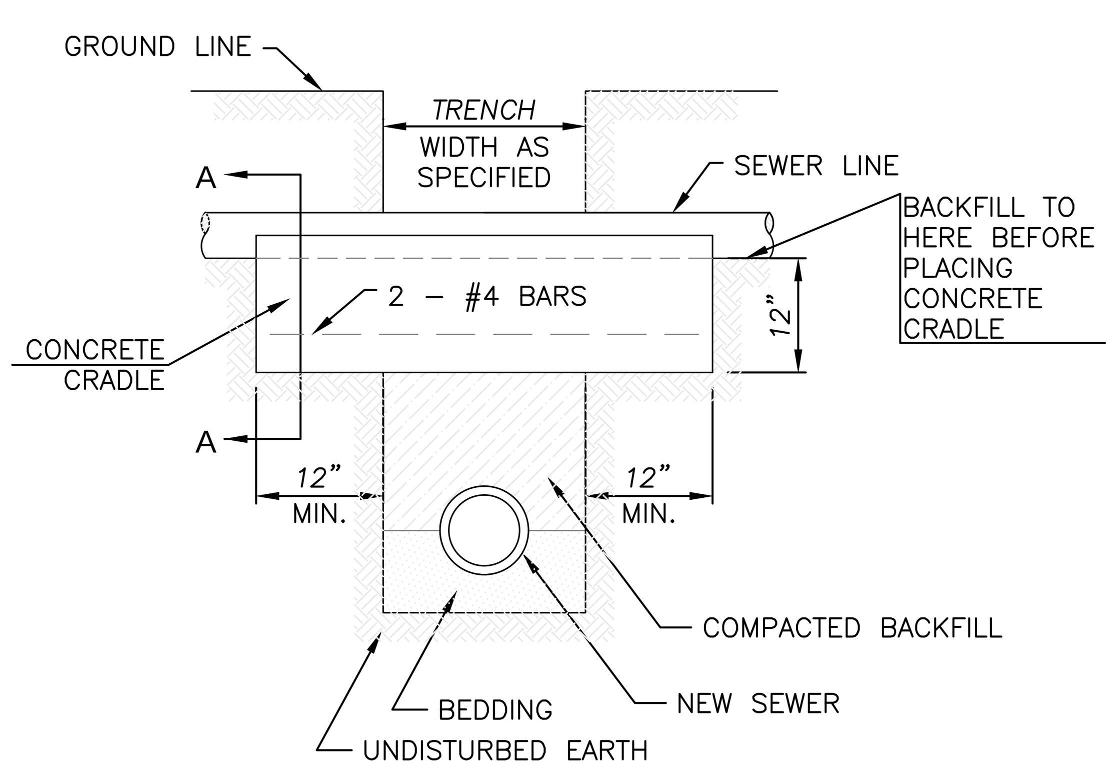


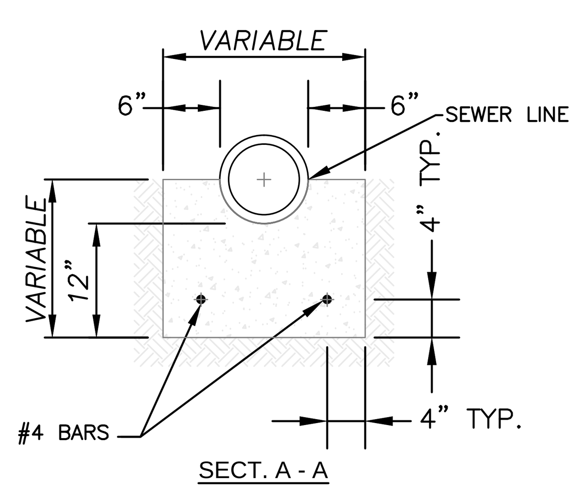
SERVICE STUB DETAIL



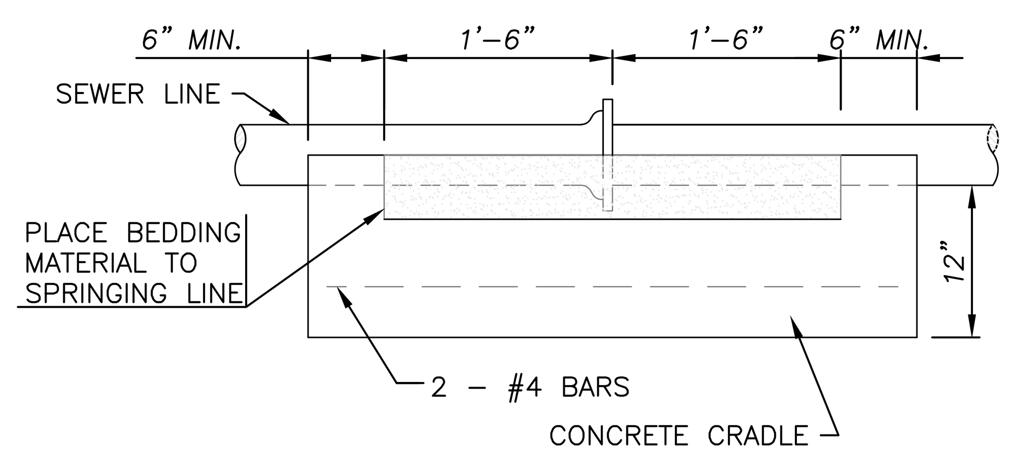
P-TRAP DETAIL

NOTE: CONTRACTOR TO INSTALL SIPHON/TRAP JUST SOUTH OF EX. MANHOLE STA. 105+18.95 & EAST OF EX. MANHOLE STA. 143+06.20





CRADLE DETAILS



JOINT CRADLE DETAIL

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

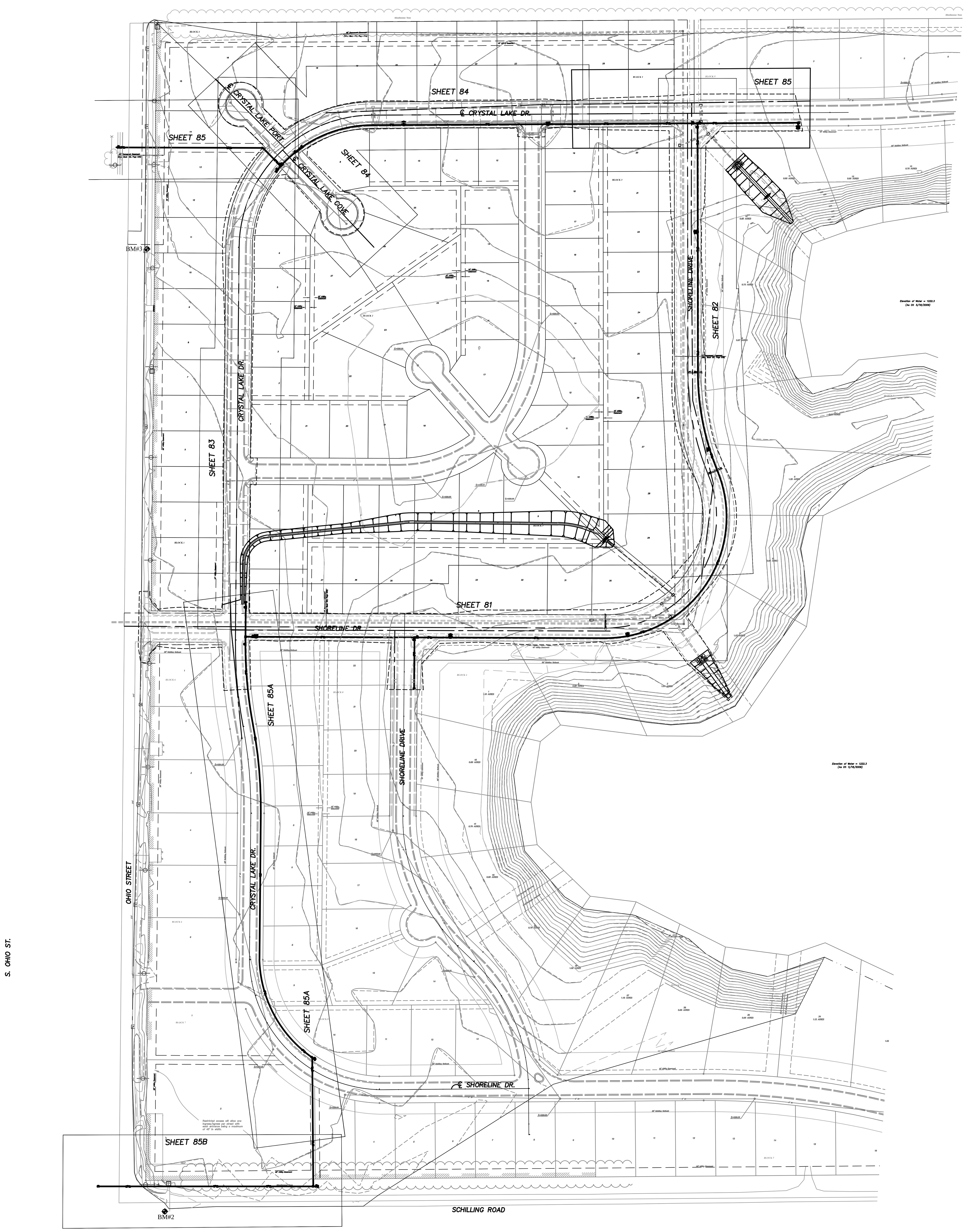
NO.	DATE	DESCRIPTION

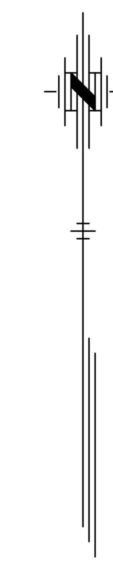
SHEET TITLE:
SANITARY SEWER DETAILS

PROJECT PHASE:
PHASE I

SHEET NUMBER:
80

FINAL





SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

STREET, SEWER & WATER IMPROVEMENTS
TO SERVE
STONE LAKE ADDITION, PHASE I
SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: KWB CHECKED BY: KWB REV:

REVISIONS:

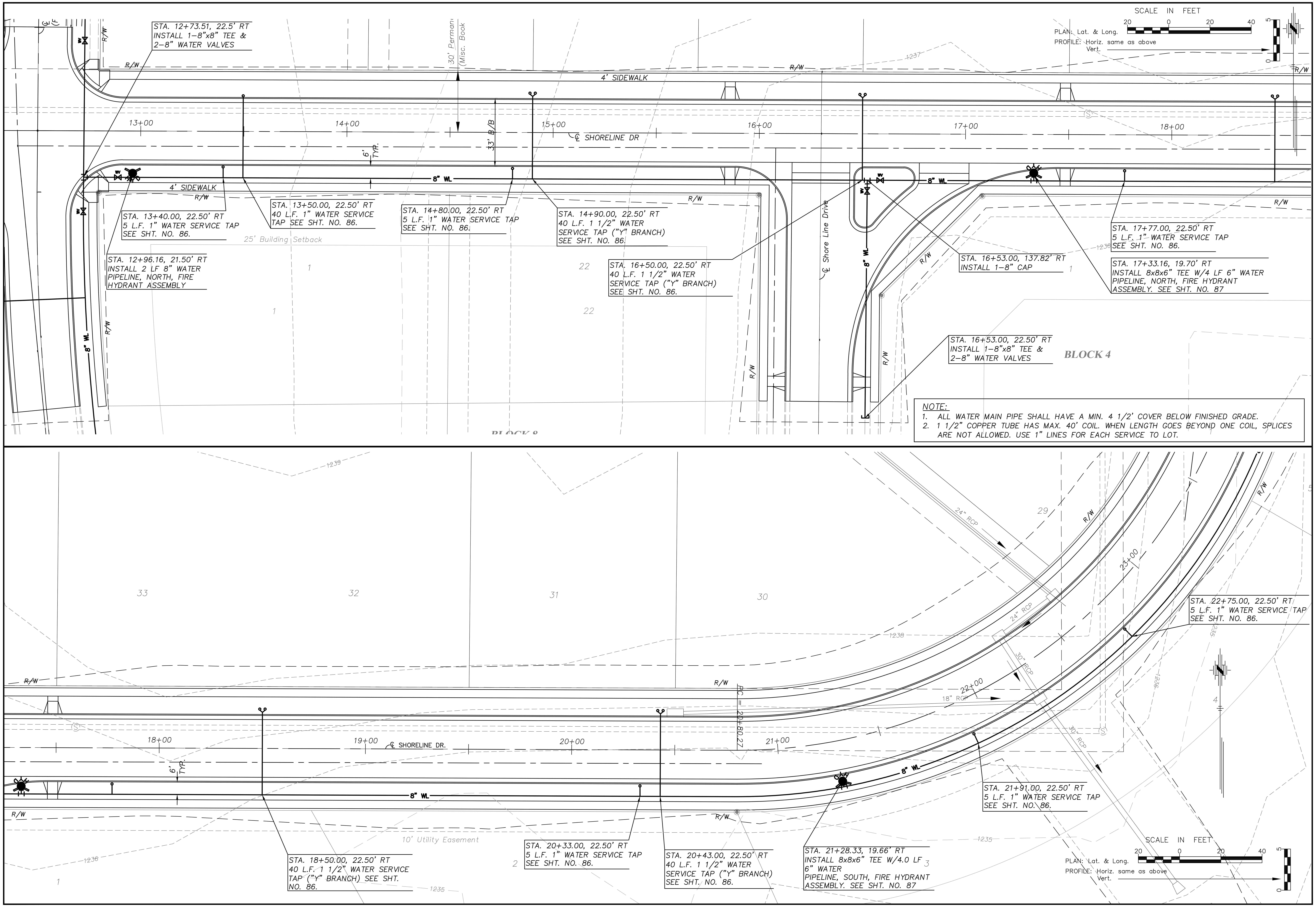
NO.	DATE	DESCRIPTION

SHEET TITLE:
WATER LAYOUT

PROJECT PHASE:
PHASE I

SHEET NUMBER:
80A

FINAL



SEAL:

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS

DESIGNER:

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

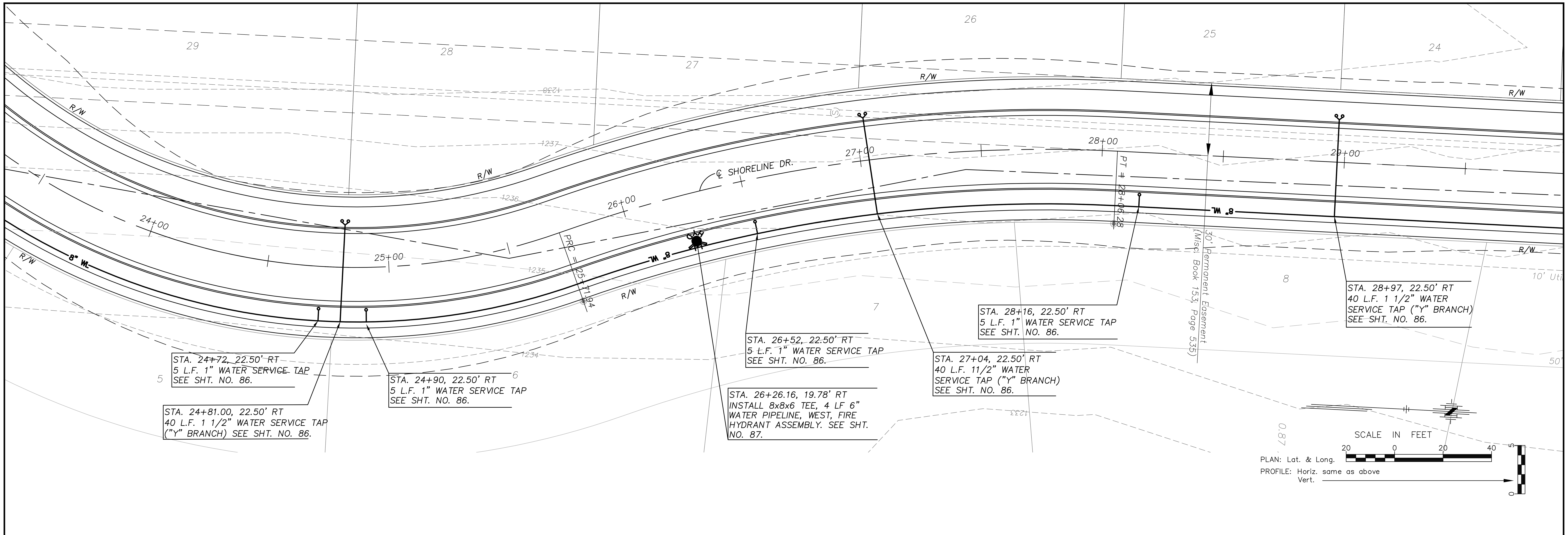
NO.	DATE	DESCRIPTION

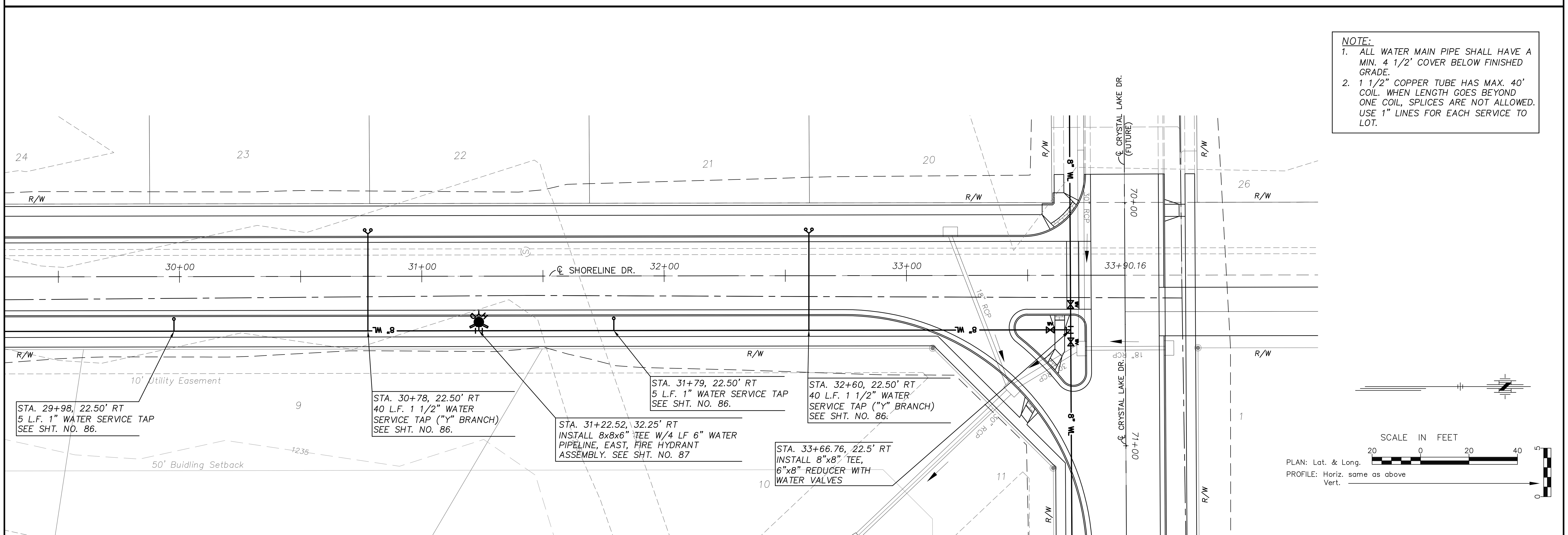
SHEET TITLE: WATERLINE PLAN SHORELINE DR.

PROJECT PHASE: PHASE I

SHEET NUMBER: 81

FINAL





SEAL:

Cook, Flatt & Strobel
ENGINEERS P.A.

CFS

DESIGNER:

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty, 157 So. Seventh, Salina, KS 66901

OWNER: Sparrowhawk Land, LLC, 105 Industrial Road, Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

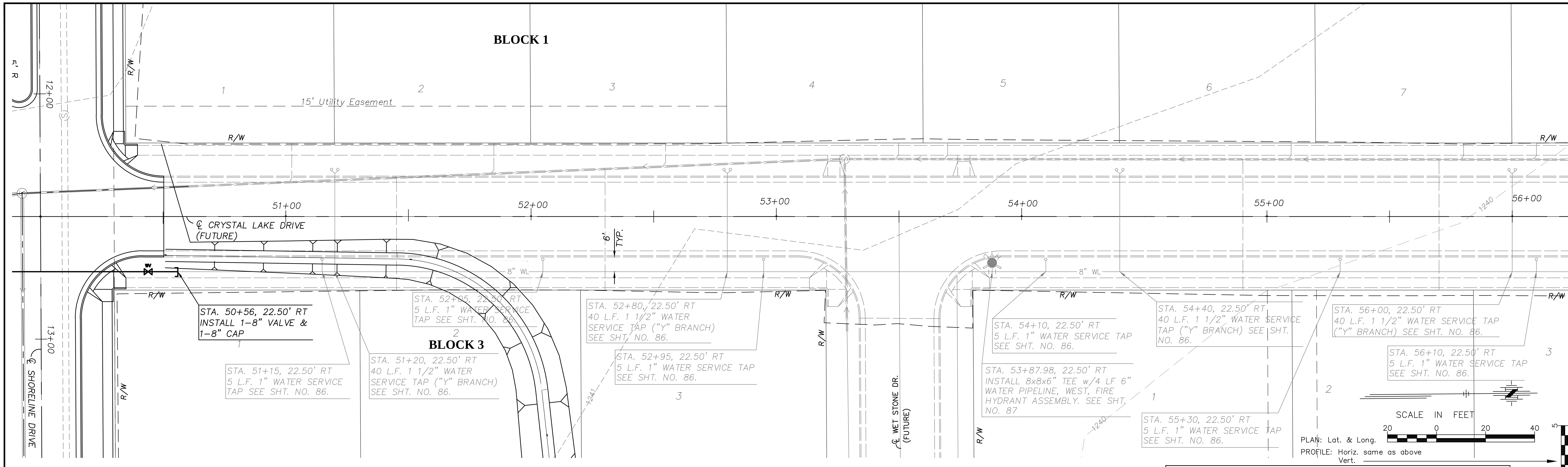
NO.	DATE	DESCRIPTION

SHEET TITLE: WATERLINE PLAN SHORELINE DR.

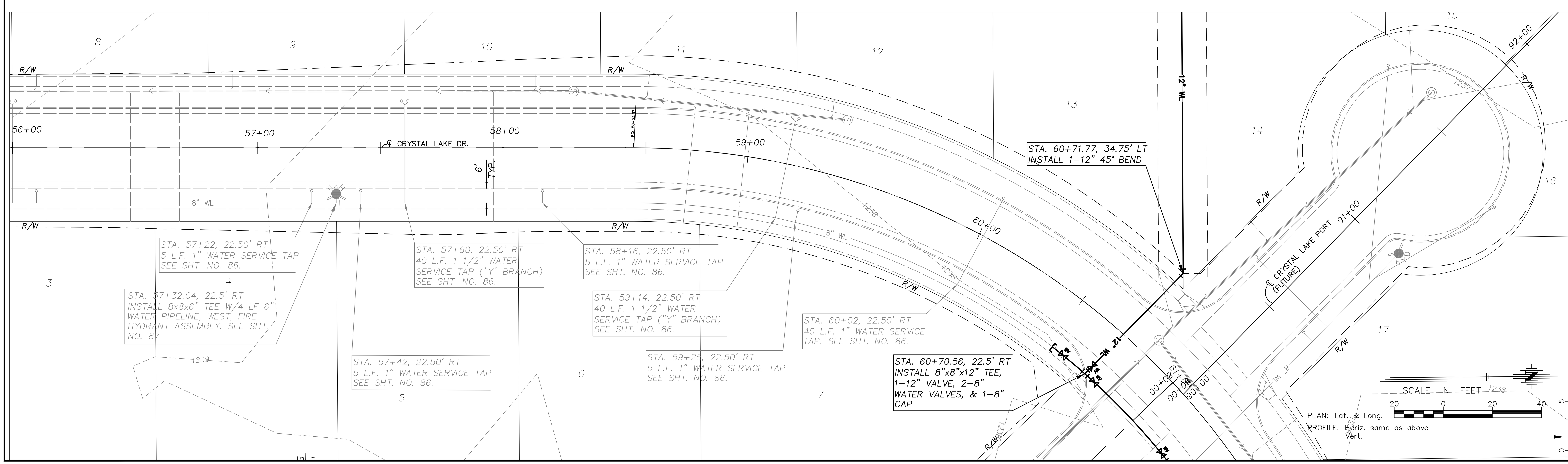
PROJECT PHASE: PHASE I

SHEET NUMBER: 82

FINAL



NOTE:
1. ALL WATER MAIN PIPE SHALL HAVE A MIN. 4 1/2' COVER BELOW FINISHED GRADE.
2. 1 1/2" COPPER TUBE HAS MAX. 40' COIL. WHEN LENGTH GOES BEYOND ONE COIL, SPLICES ARE NOT ALLOWED. USE 1" LINES FOR EACH SERVICE TO LOT.



SEAL:

Cook, Flatt & Strobel ENGINEERS P.A.

CFS

DESIGNER:

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

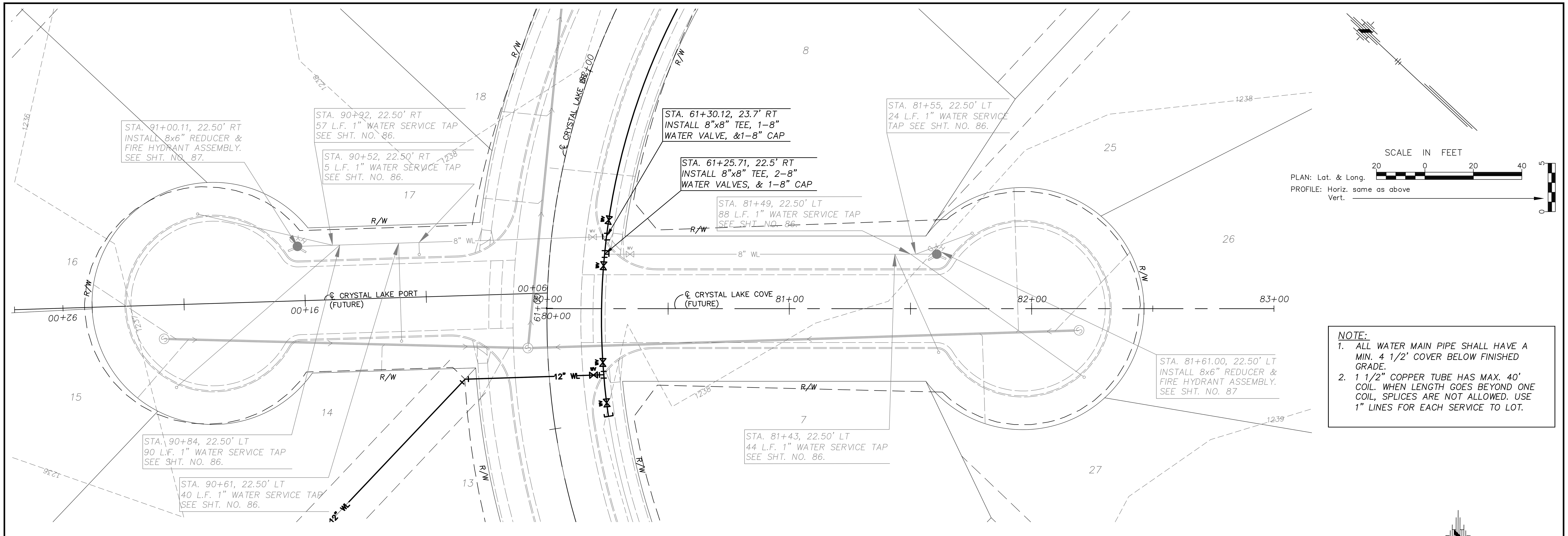
NO.	DATE	DESCRIPTION

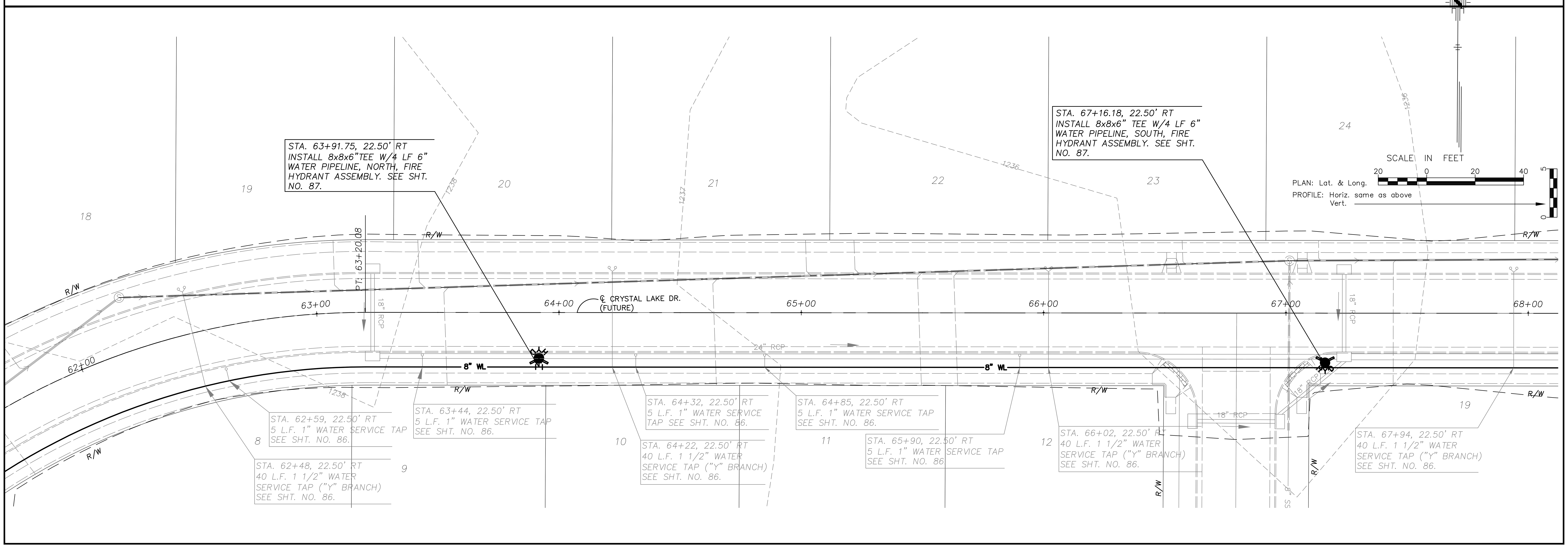
SHEET TITLE: WATERLINE PLAN

PROJECT PHASE: PHASE I

SHEET NUMBER: 83

FINAL





SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER: Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

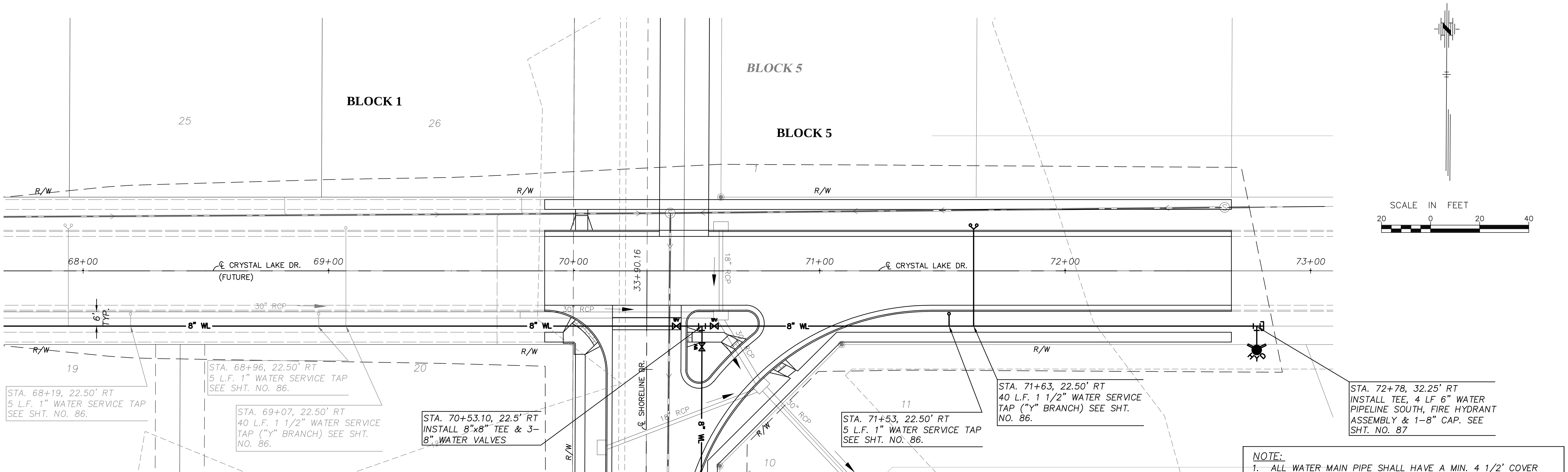
NO.	DATE	DESCRIPTION

SHEET TITLE: WATERLINE PLAN

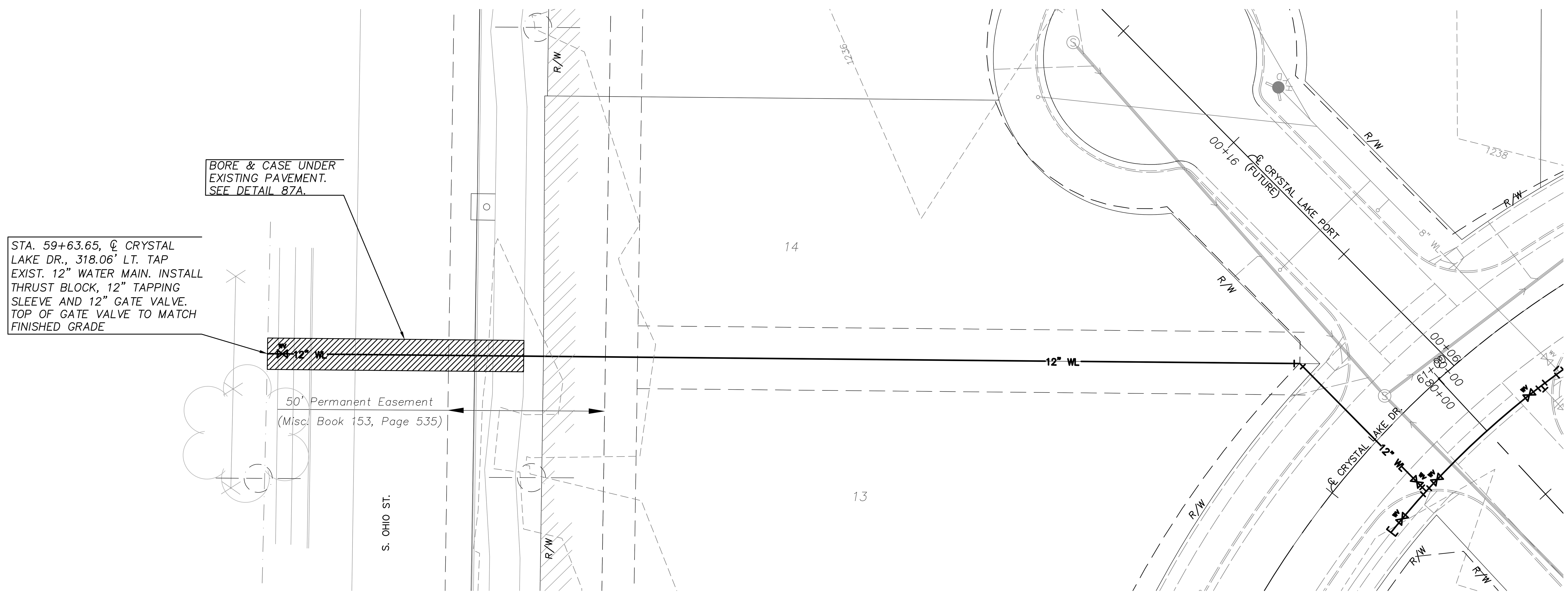
PROJECT PHASE: PHASE I

SHEET NUMBER: 84

FINAL



NOTE:
1. ALL WATER MAIN PIPE SHALL HAVE A MIN. 4 1/2' COVER BELOW FINISHED GRADE.
2. 1 1/2" COPPER TUBE HAS MAX. 40' COIL. WHEN LENGTH GOES BEYOND ONE COIL, SPLICES ARE NOT ALLOWED. USE 1" LINES FOR EACH SERVICE TO LOT.



NOTES:
1. THE CONTRACTOR SHALL COMPLETE 1/2 OF CONSTRUCTION WITHIN OHIO STREET AT ONE TIME. PROVIDE ADEQUATE TRAFFIC CONTROL FOR 2 LANE CLOSURE.
2. THE CONTRACTOR HAS THE OPTION TO BORE UNDER OHIO STREET IN LIEU OF OPEN CUT AT NO ADDITION COST TO THE OWNER.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

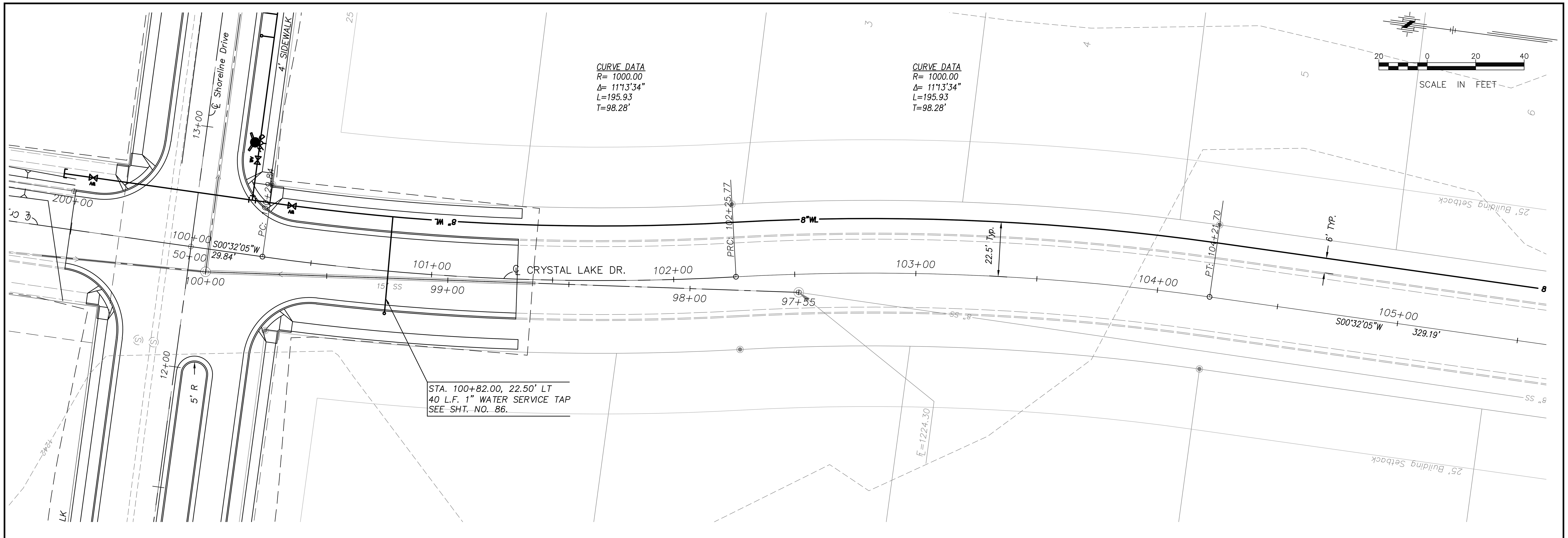
NO.	DATE	DESCRIPTION

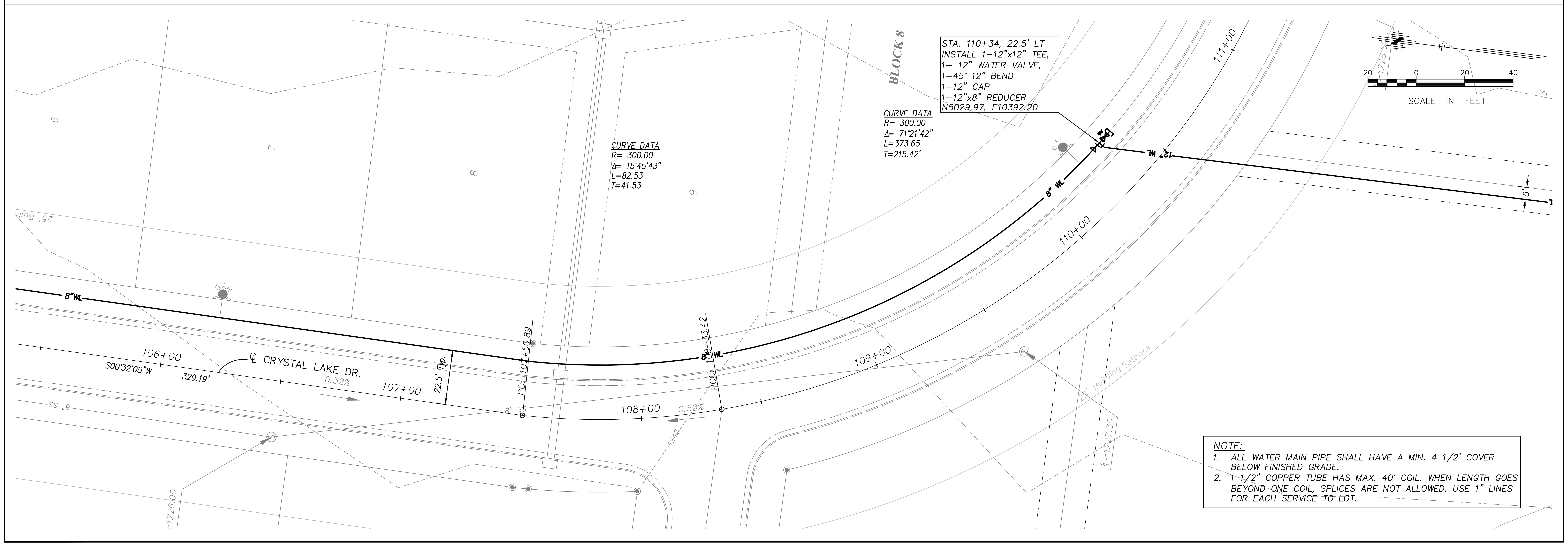
SHEET TITLE: WATERLINE PLAN

PROJECT PHASE: PHASE I

SHEET NUMBER: 85

FINAL





NOTE:
1. ALL WATER MAIN PIPE SHALL HAVE A MIN. 4 1/2' COVER BELOW FINISHED GRADE.
2. 1 1/2" COPPER TUBE HAS MAX. 40' COIL. WHEN LENGTH GOES BEYOND ONE COIL, SPLICES ARE NOT ALLOWED. USE 1" LINES FOR EACH SERVICE TO LOT.

SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: RWE | CHECKED BY: KWB | REV:

REVISIONS:

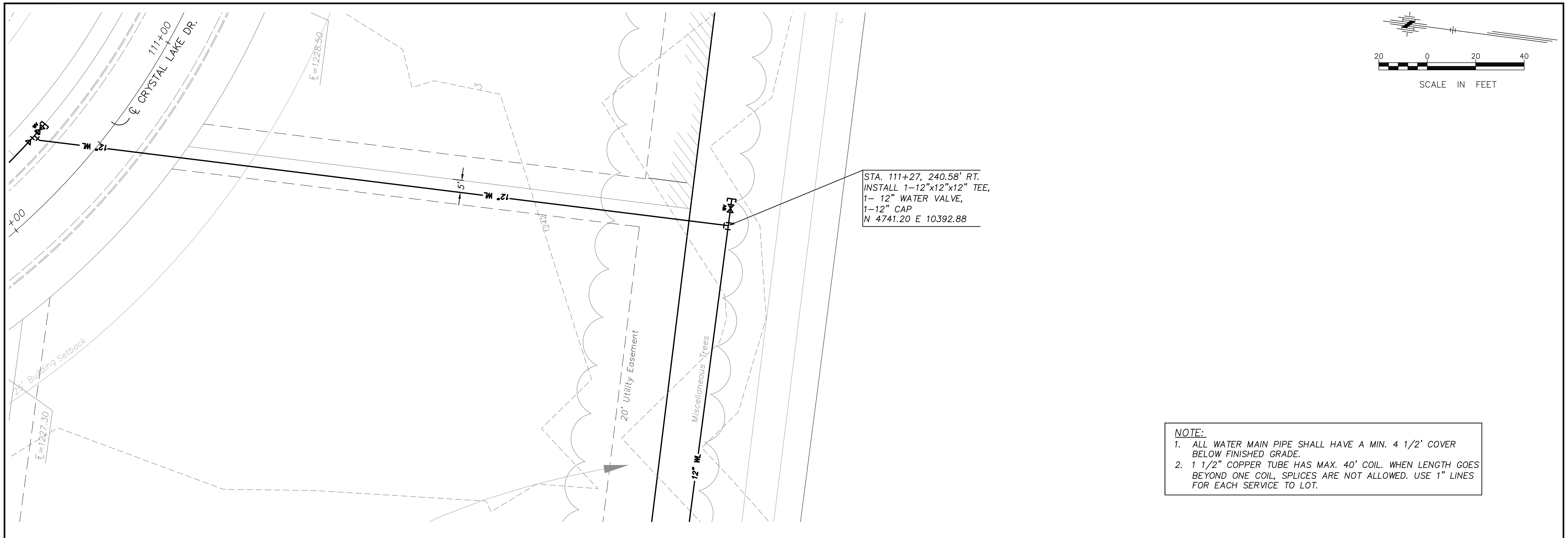
NO.	DATE	DESCRIPTION

SHEET TITLE: WATERLINE PLAN

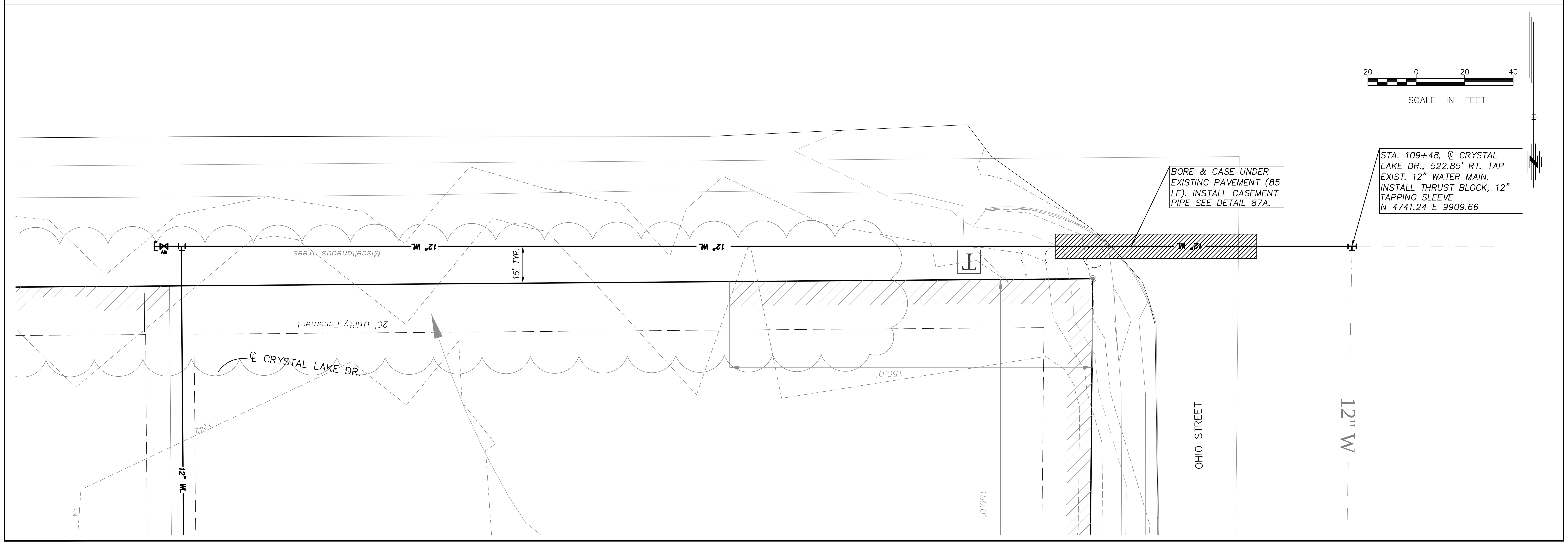
PROJECT PHASE: PHASE I

SHEET NUMBER: 85A

FINAL



NOTE:
1. ALL WATER MAIN PIPE SHALL HAVE A MIN. 4 1/2' COVER BELOW FINISHED GRADE.
2. 1 1/2" COPPER TUBE HAS MAX. 40' COIL. WHEN LENGTH GOES BEYOND ONE COIL, SPLICES ARE NOT ALLOWED. USE 1" LINES FOR EACH SERVICE TO LOT.



SEAL:

DESIGNER:

CFS

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

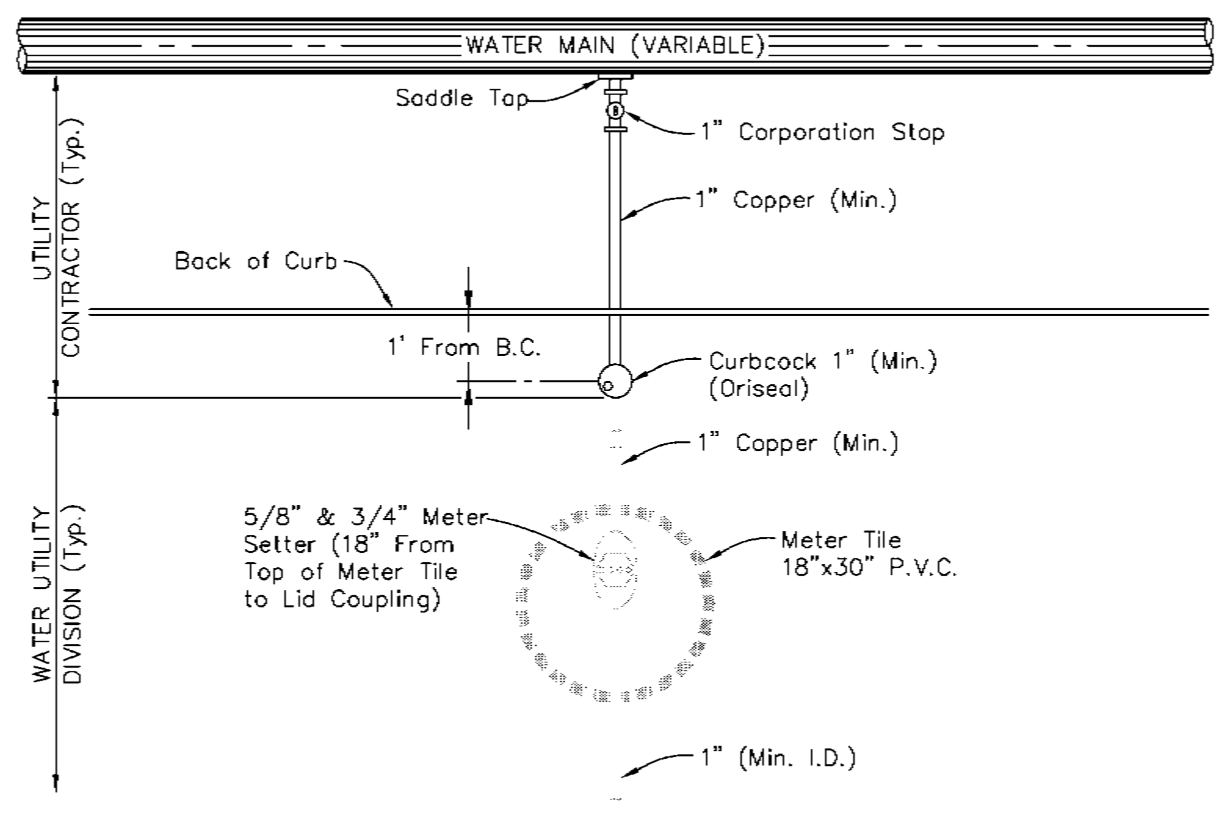
NO.	DATE	DESCRIPTION

SHEET TITLE: WATERLINE PLAN

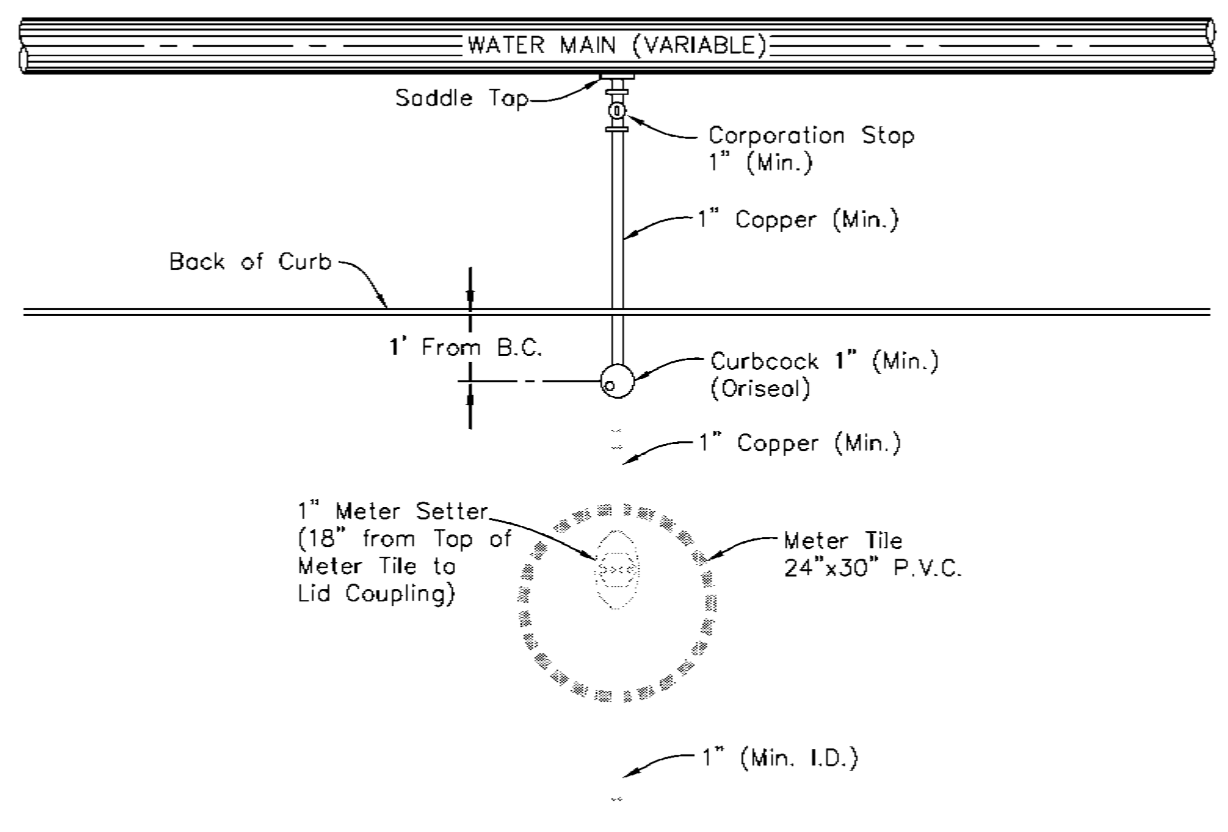
PROJECT PHASE: PHASE I

SHEET NUMBER: 85B

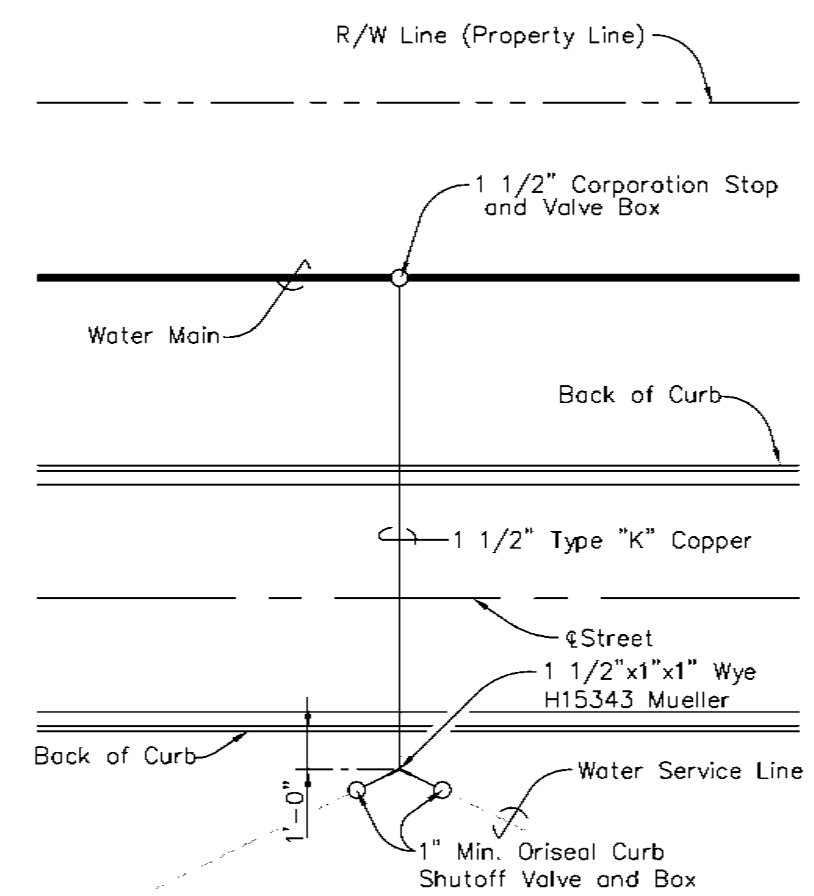
FINAL



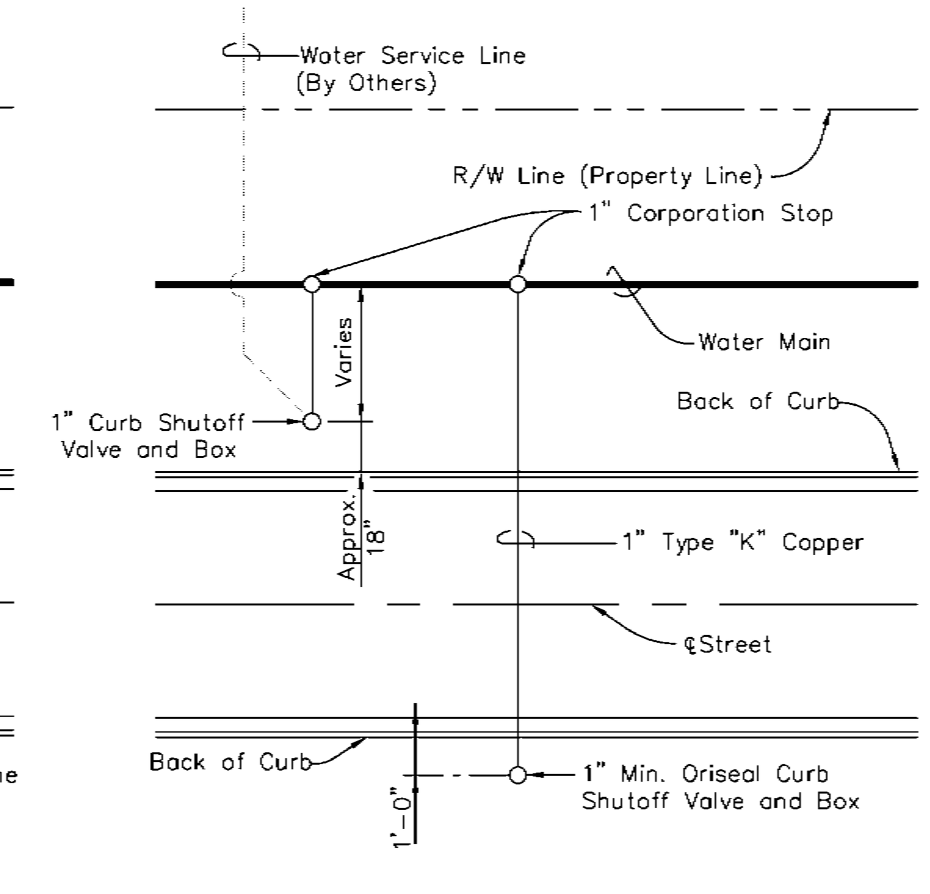
STANDARD FOR 5/8" & 3/4" METER SETTINGS
Not to Scale



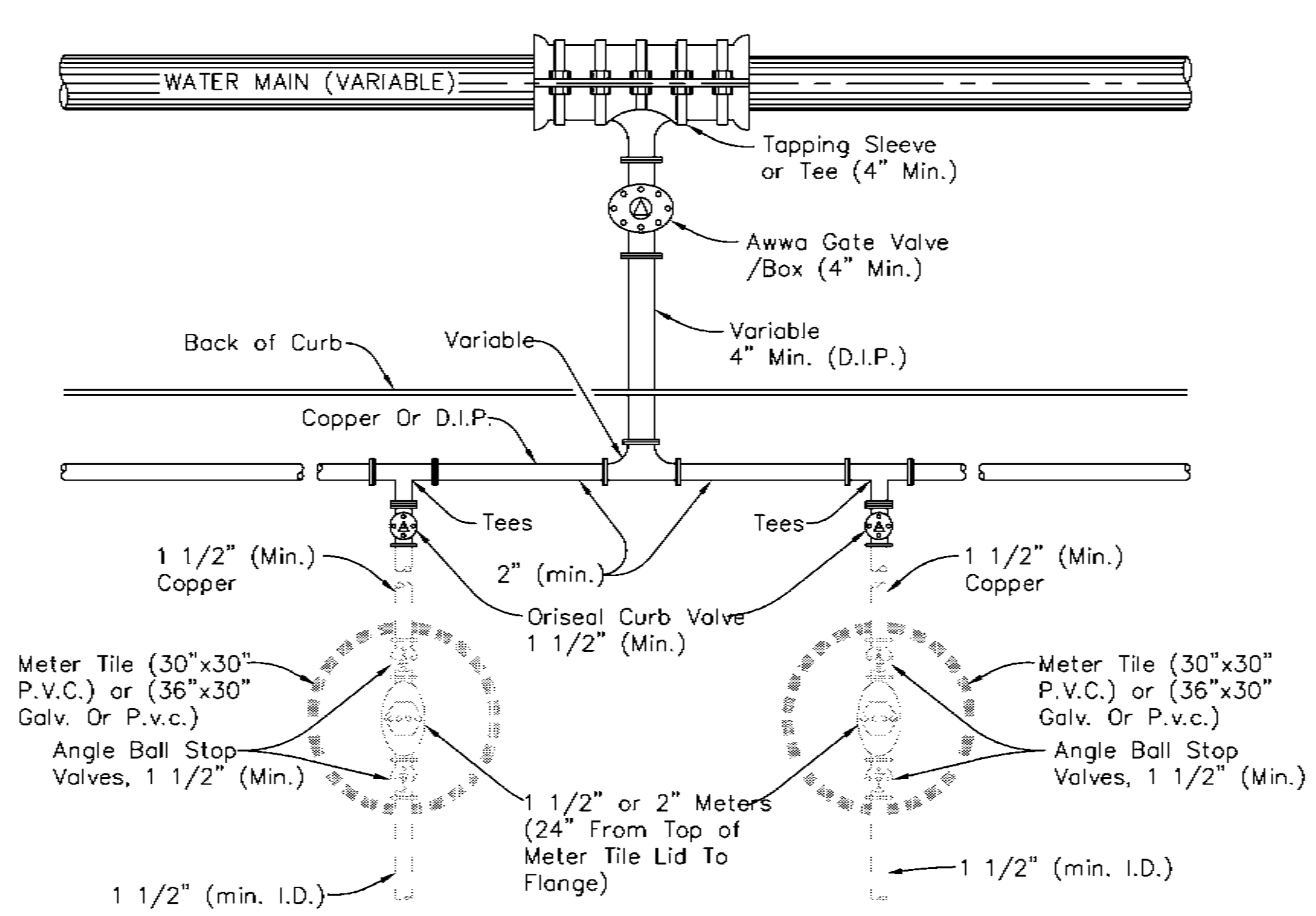
STANDARD FOR 1" METER SETTINGS
Not to Scale



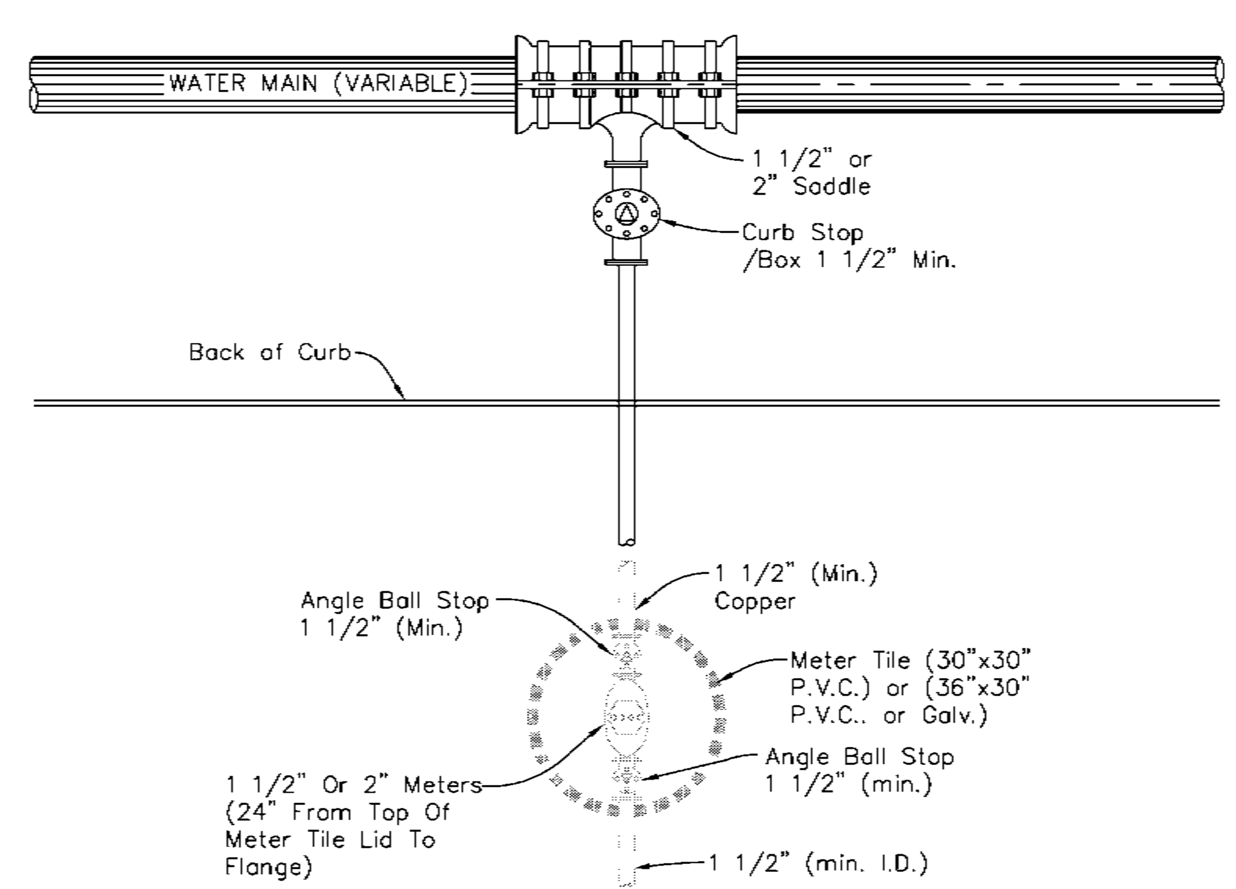
TYPICAL 1 1/2" WATER SERVICE
Not to Scale



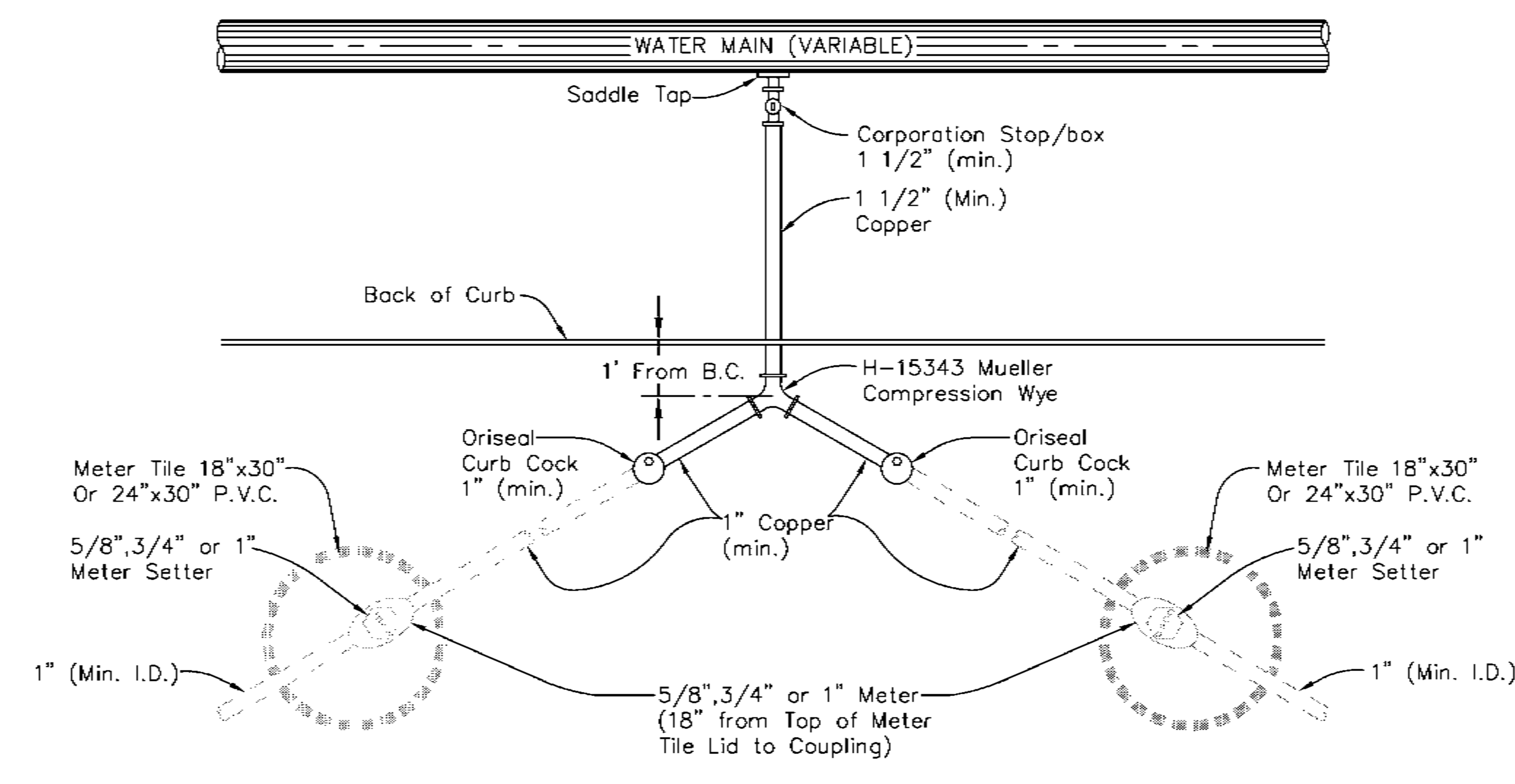
TYPICAL 1" WATER SERVICE
Not to Scale



STANDARD FOR 1 1/2" AND 2" MULTIPLE METER SETTINGS
Not to Scale



STANDARD FOR 1 1/2" AND 2" METER SETTINGS
Not to Scale



STANDARD FOR "Y" BRANCH 5/8",3/4" & 1" MULTIPLE METER SETTINGS
Not to Scale

Note: All Curb Shut-off Valves Shall be Mueller Cat. No. H-15201.

CITY OF SALINA, KANSAS
PUBLIC WORKS - ENGINEERING - UTILITIES

STANDARD DETAILS
WATER SERVICE DETAILS

DATE: Sep 2009 | SCALE: Not to Scale | SHEET:
FILENAME: 12_Water_Service_Details.dwg | BY: DMK

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

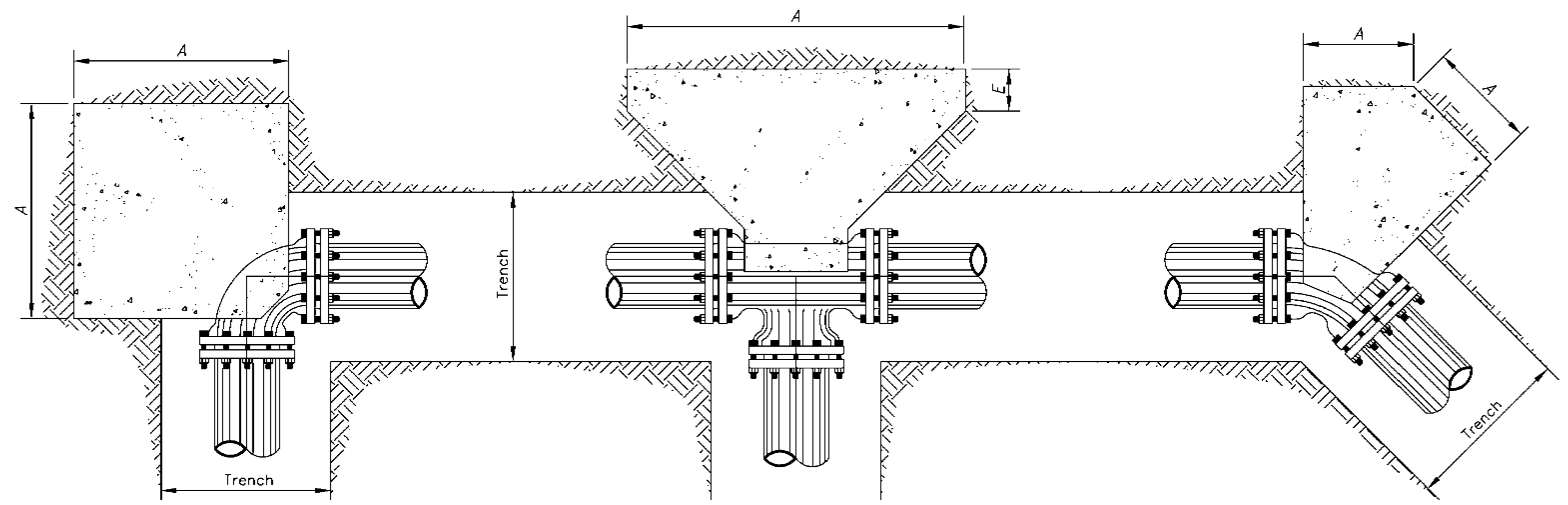
NO.	DATE	DESCRIPTION

SHEET TITLE: Water Service Details

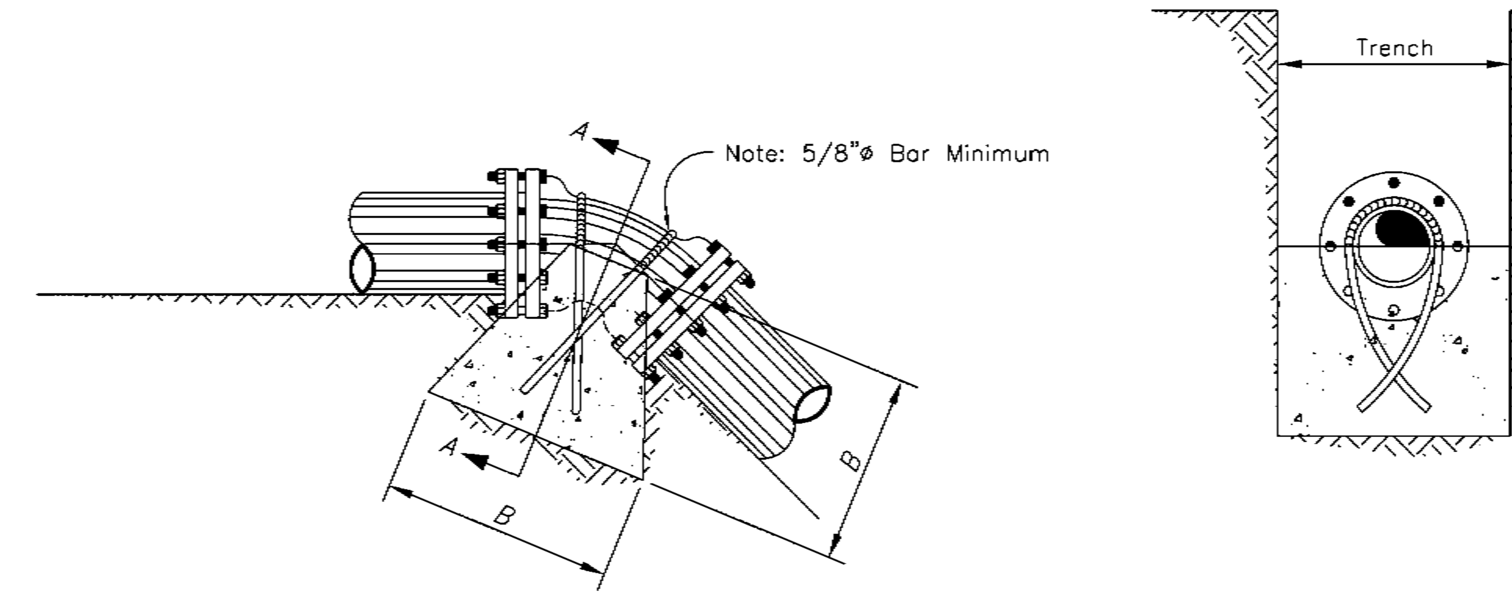
PROJECT PHASE: PHASE I

SHEET NUMBER: 86

FINAL



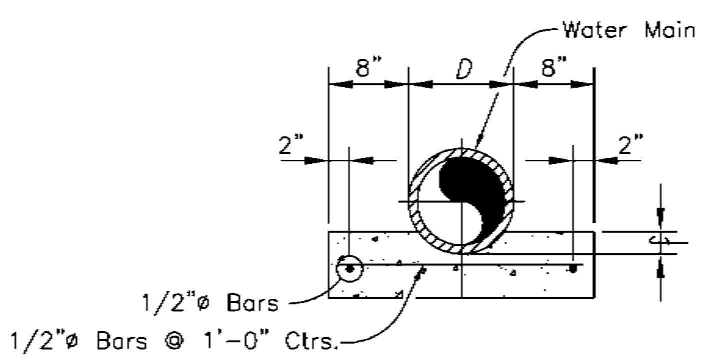
PLAN



ELEVATION

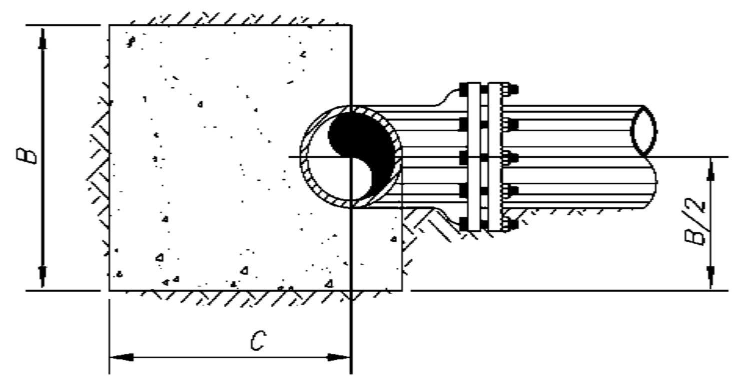
SECTION A–A

VERTICAL BLOCKING DETAILS



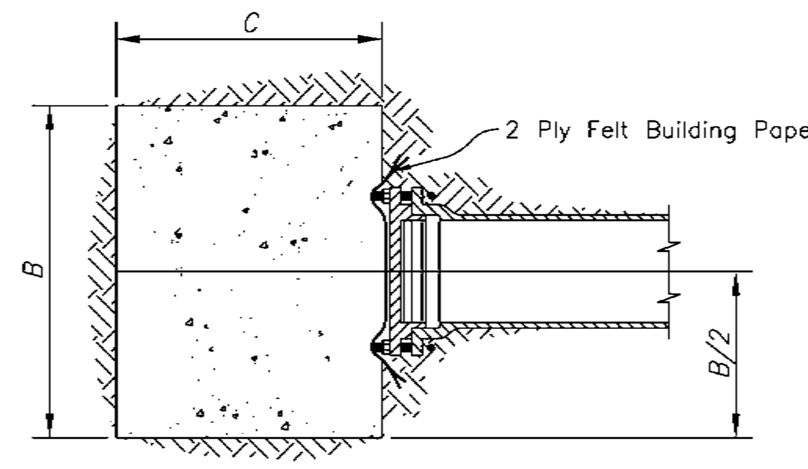
Note: All Dimensions Are Minimum.

TYPICAL CONCRETE PIPE CRADLE



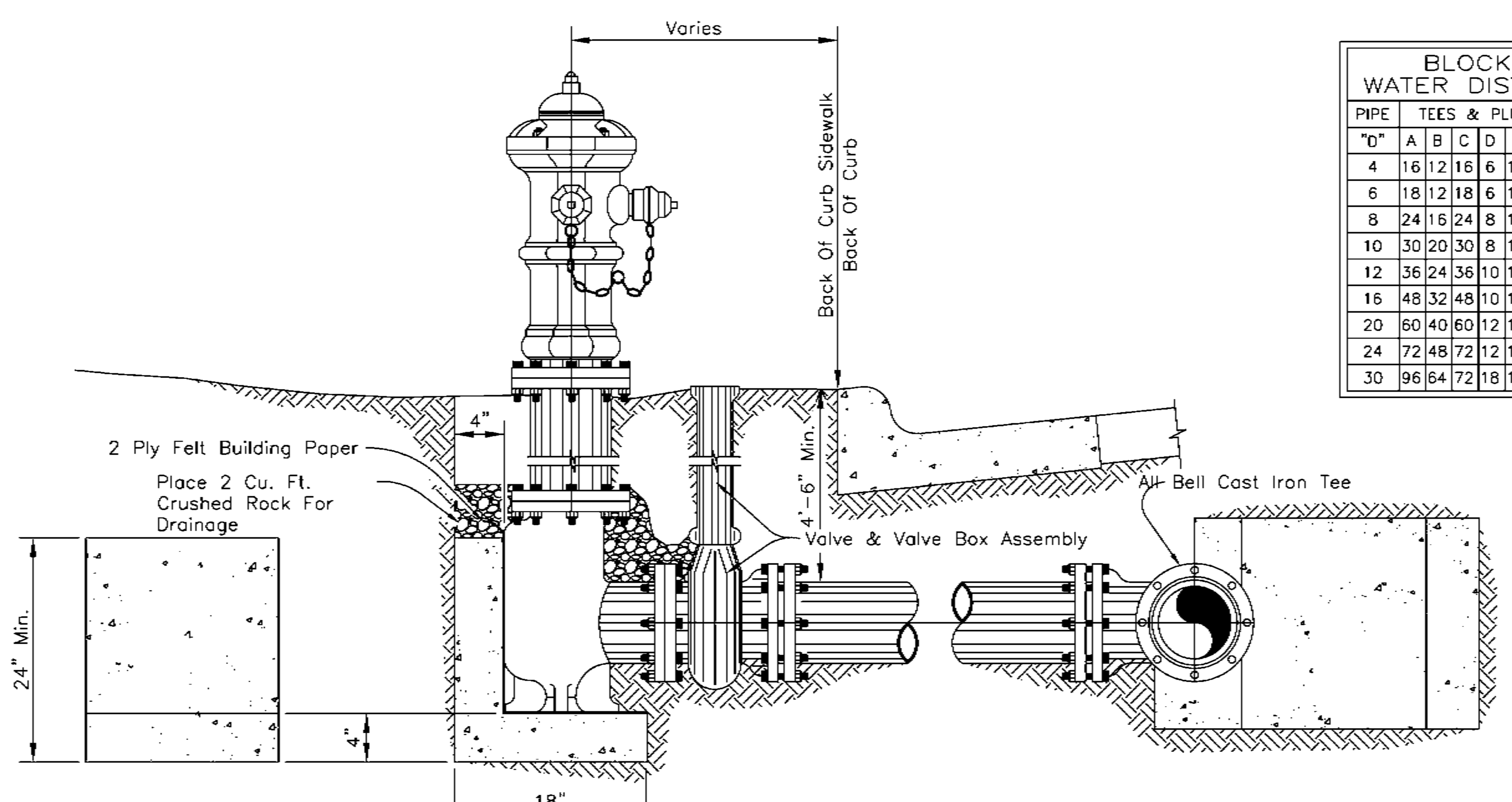
SECTION

TYPICAL BLOCKING DETAILS



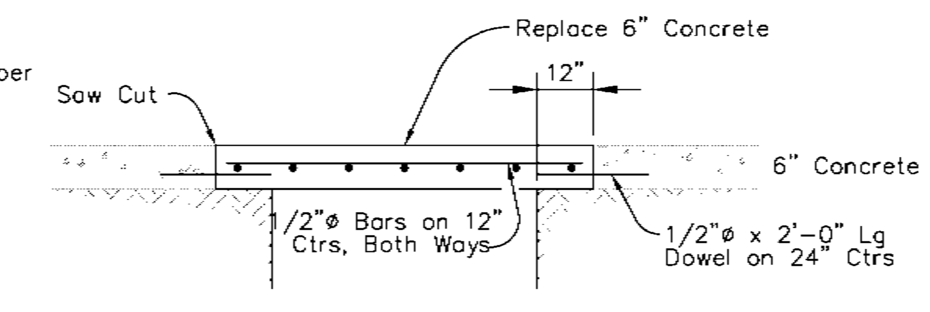
TYPICAL BLOCKING FOR CAST IRON PLUG

BLOCKING SCHEDULE WATER DISTRIBUTION FITTINGS															
PIPE	TEES & PLUGS						90° BEND			45° BEND			22.5° BEND		
"D"	A	B	C	D	E		A	B	C	A	B	C	A	B	C
4	16	12	16	6	12		16	12	16	16	12	16	16	12	16
6	18	12	18	6	16		18	12	18	18	12	18	18	12	18
8	24	16	24	8	16		24	16	24	24	16	24	24	16	24
10	30	20	30	8	16		30	20	30	30	20	30	30	20	30
12	36	24	36	10	18		36	24	36	36	24	36	36	24	36
16	48	32	48	10	18		48	32	48	48	32	48	48	32	48
20	60	40	60	12	18		60	40	60	60	40	60	60	40	60
24	72	48	72	12	18		72	48	72	72	48	72	72	48	72
30	96	64	72	18	18		96	64	72	96	64	72	96	64	72

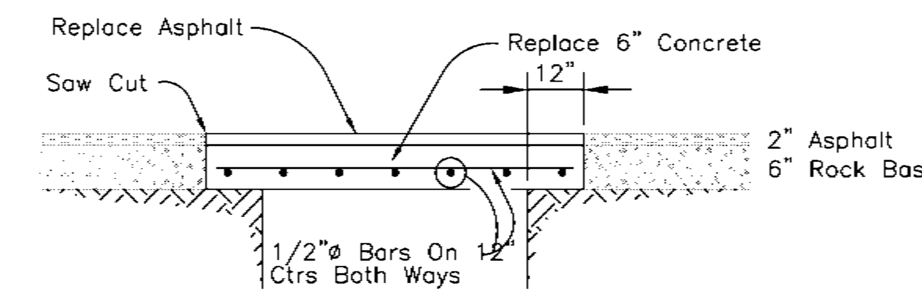


FRONT ELEVATION

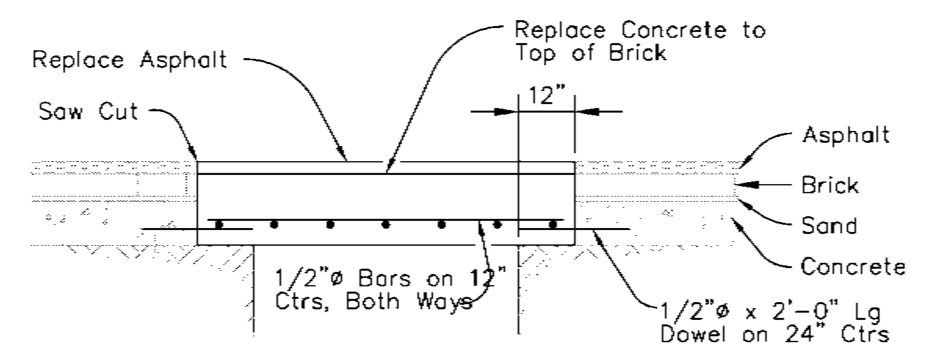
FIRE HYDRANT SETTING DETAILS



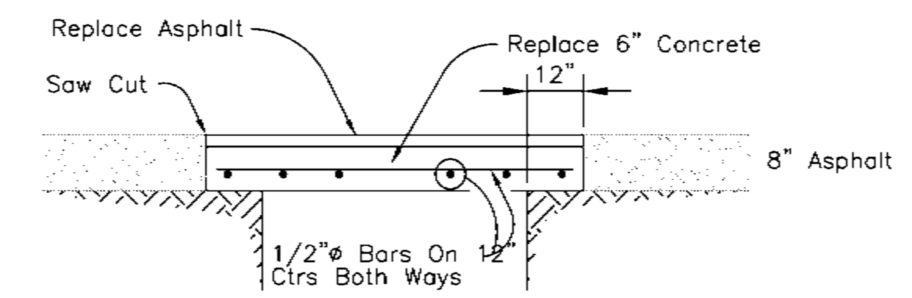
DETAIL "C"



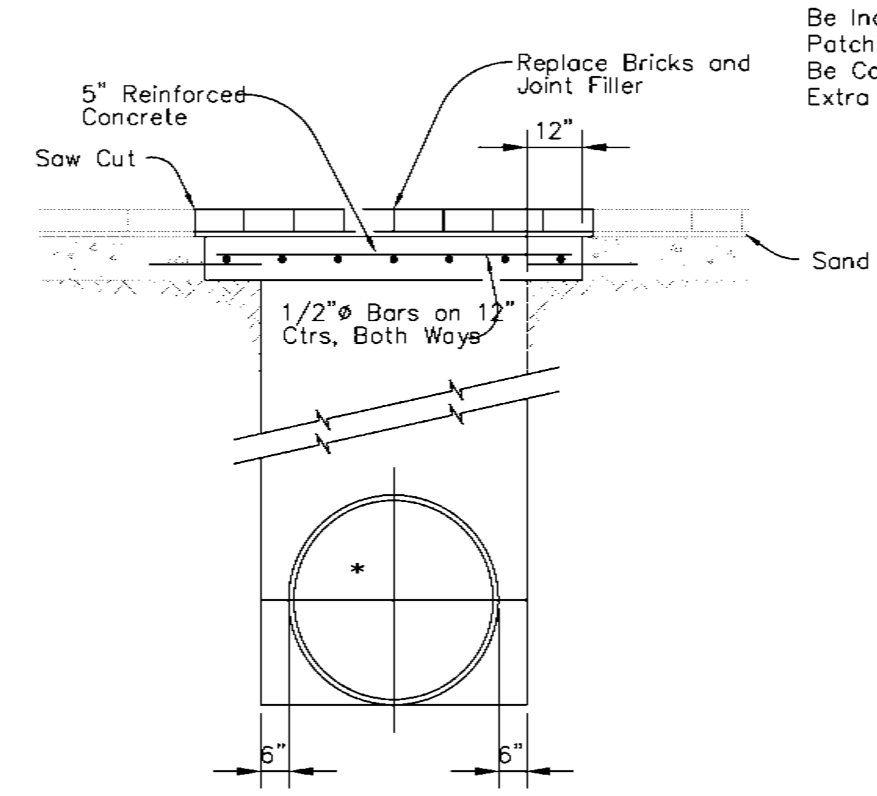
DETAIL "A"



DETAIL "D"



DETAIL "B"



DETAIL "E"

PAVEMENT CUTTING DETAILS

Reinforcing Steel To Be Incidental To Patching & Shall Not Be Considered An Extra Pay Item.

GENERAL NOTES

1. Water Lines Shall Have A Minimum Cover Of 4'-6" Or More As Shown On Profiles.
2. All Valves On Mains & Fire Hydrant Leads Shall Be Installed With Valve Box Assemblies.
3. The Size Of Valve Box Assembly To Be Installed Shall Be Determined By The Type And Size Of Valve.
4. Valve Box Caps Shall Have The Word "water" Cast In The Top.
5. Parallel Potable Water Pipes And Gravity Sanitary Sewers Shall Be In Separate Trenches With A Minimum Horizontal Spacing Of At Least 10 Feet Measured From Edge To Edge. The Sewer Line Material Is To Be PVC With The Ends For Joining As Outlined In KDHE's "Policies, General Considerations And Design Requirements For Public Water Supply Systems In Kansas."
6. All structures within roadway shall be backfilled with excavatable flowable fill mix, 95%.
7. All utility patches within roadway shall be backfilled with excavatable flowable fill mix or suitable material, 95%.

CITY OF SALINA, KANSAS
PUBLIC WORKS – ENGINEERING – UTILITIES

STANDARD DETAILS
WATER DISTRIBUTION DETAILS

DATE: Sep 2009	SCALE: Not to Scale	SHEET:
FILENAME: 11_Water_Distribution_Details.dwg	BY: DWK	

SEAL:

DESIGNER:

CFS
Cook, Flatt & Strobel
E N G I N E E R S , P . A .
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO:
10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS

CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: RWE CHECKED BY: KWB REV:

REVISIONS:

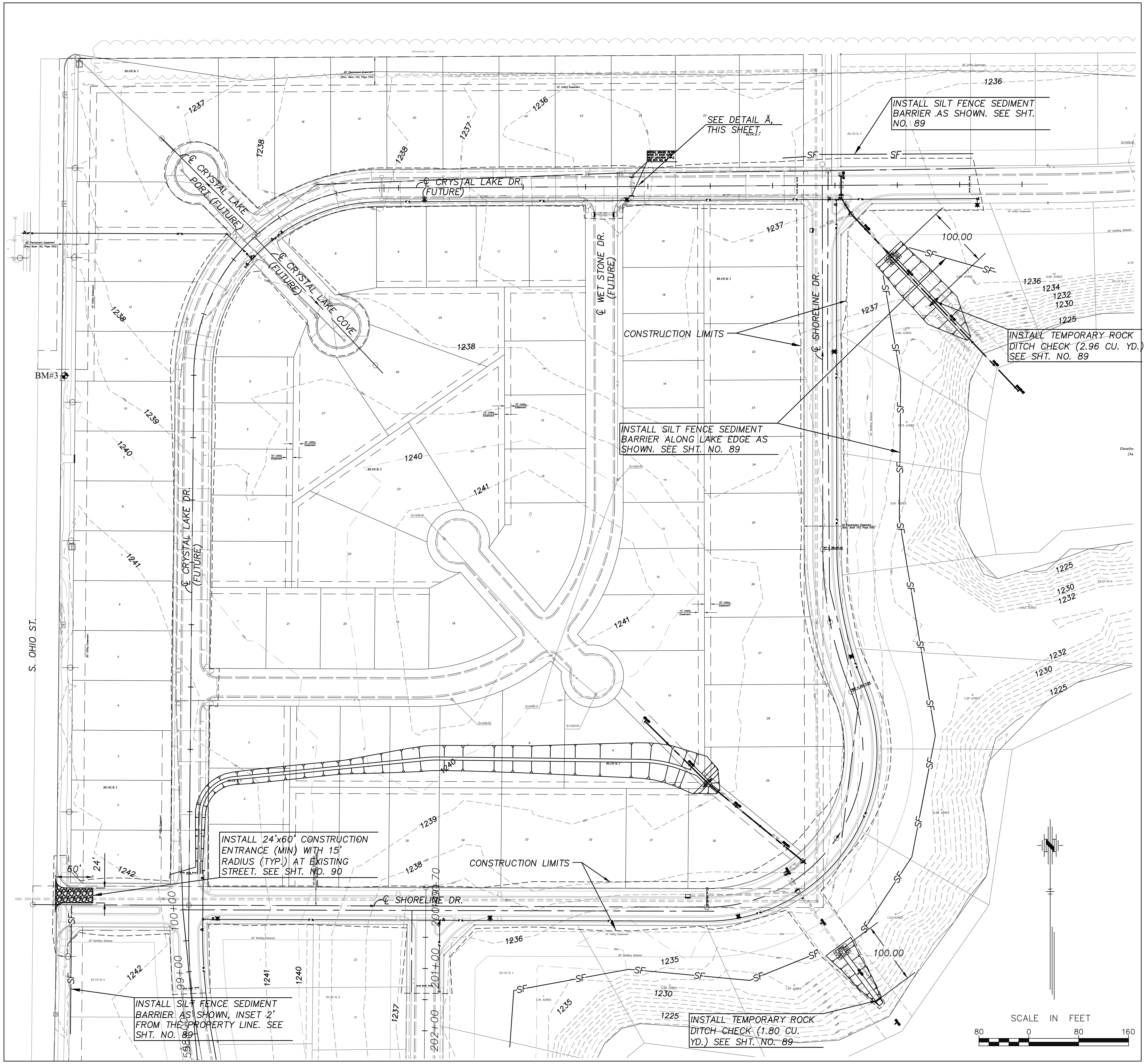
NO.	DATE	DESCRIPTION

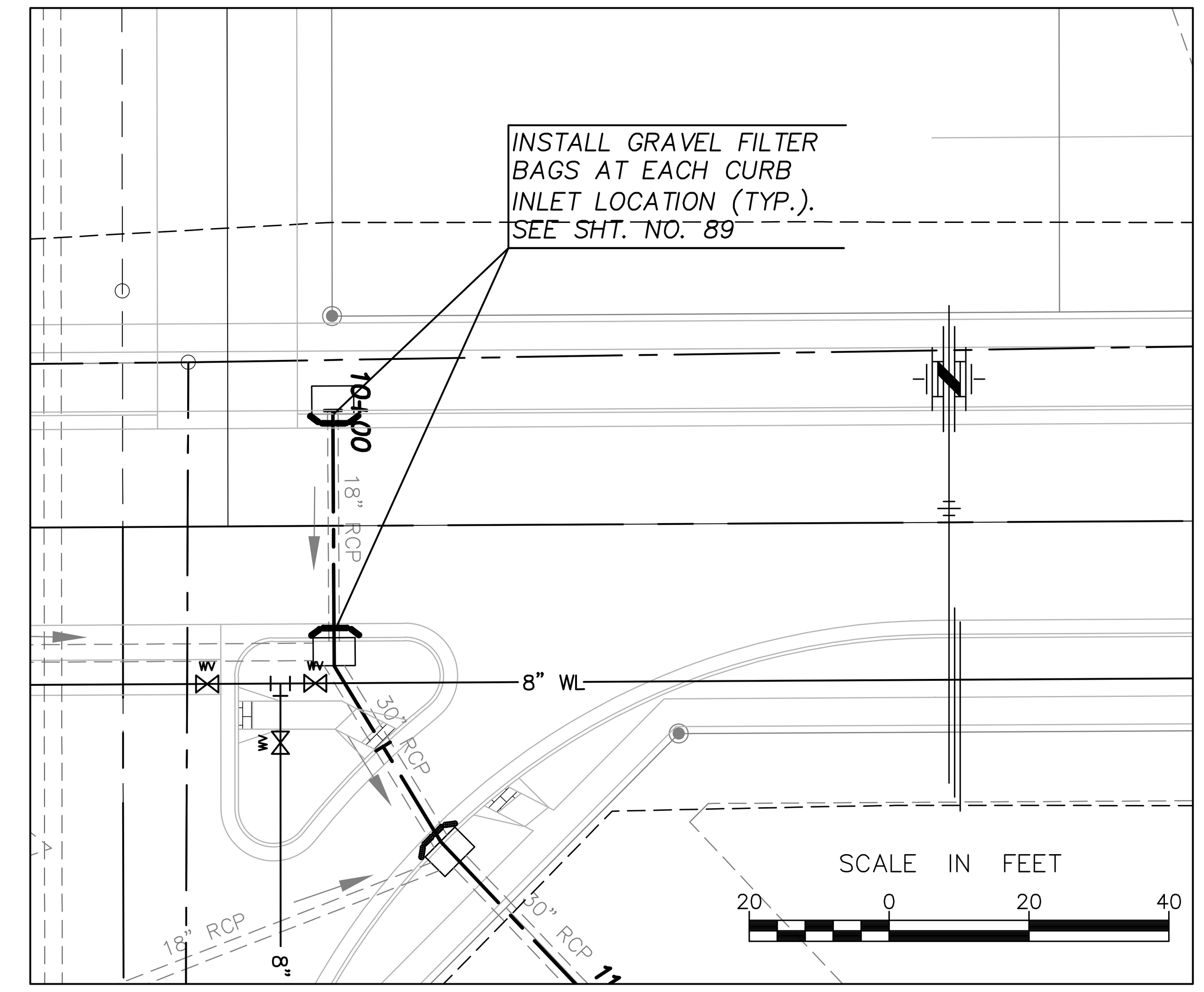
SHEET TITLE:
Water Distribution Details

PROJECT PHASE:
PHASE I

SHEET NUMBER:
87

FINAL





DETAIL A

SEAL:

DESIGNER:

Cook, Flatt & Strobel
ENGINEERS, P.A.
2930 SW WOODSIDE DR.
TOPEKA, KANSAS 66614
(785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER:
ComPro Realty
157 So. Seventh
Salina, KS 66901

OWNER:
Sparrowhawk Land, LLC
105 Industrial Road
Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS
CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 | DRAWN BY: KWB | CHECKED BY: KWB | REV:

REVISIONS:

NO.	DATE	DESCRIPTION

SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN I

PROJECT PHASE: PHASE I

SHEET NUMBER: 88

FINAL

GENERAL NOTES:

1. NO CLEARING OR GRADING ACTIVITIES SHALL BEGIN UNTIL ADEQUATE SEDIMENT AND EROSION CONTROL DEVICES HAVE BEEN INSTALLED.

2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ALL SEDIMENT AND EROSION CONTROL MEASURES DURING ALL PHASES OF THE CONSTRUCTION UNTIL PROJECT ACCEPTANCE BY THE OWNER. SHOULD THE OWNER DETERMINE THAT THE INSTALLATION OR MAINTENANCE IS INADEQUATE, THE CONTRACTOR SHALL CORRECT IMMEDIATELY AT HIS EXPENSE.

3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SEDIMENT AND EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM REACHING PUBLIC RIGHT-OF-WAY, STREAMS OR ADJACENT PROPERTY. IN THE EVENT THAT THE DEVICES FAIL TO PROTECT THESE AREAS, THE CONTRACTOR SHALL REMOVE THE SEDIMENT AND RESTORE THE AREAS TO THEIR ORIGINAL OR BETTER CONDITION.

4. THE CONTRACTOR SHALL PHASE CONSTRUCTION TO MINIMIZE THE AMOUNT OF EXPOSED BARE GROUND AT ANY ONE TIME. AREAS THAT HAVE NOT BEEN DISTURBED FOR A PERIOD OF 14 CALENDAR DAYS SHALL RECEIVE TEMPORARY SEEDING.

5. THE CONTRACTOR SHALL STOCKPILE TOPSOIL IN AN AREA APPROVED BY THE OWNER. STOCKPILES SHALL BE TEMPORARILY SEEDED AND ENCIRCLED WITH SILT FENCE.

6. UPON REMOVAL OF THE EROSION CONTROL MEASURES, THE CONTRACTOR SHALL RE-GRADE AND RE-SEED ALL AREAS THAT DISTURBED BY THE REMOVALS.

7. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST EVERY SEVEN DAYS AND WITHIN TWENTY FOUR HOURS OF A RAINFALL EVENT TOTALING 1/2" OR MORE WITHIN A TWENTY FOUR HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT ALL MEASURES PRIOR TO A FORECAST RAINFALL EVENT TO ENSURE THEY ARE IN WORKING ORDER.

8. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHES 1/2 THE INSTALLED HEIGHT OF THE MEASURE.

9. ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS.

10. SEDIMENT CONTROL MEASURES SHALL BE REMOVED ONCE AT LEAST 70 PERCENT OF THE PERMANENT COVER IS ESTABLISHED OVER 100 PERCENT OF THE BASIN AREA.

11. ALL CONSTRUCTION RELATED VEHICLES SHALL ENTER AND EXIT THE SITE AT THE NOTED CONSTRUCTION ENTRANCE ONLY.

12. THE SEDIMENT BASIN/DETENTION POND SHALL BE CONSTRUCTED PRIOR TO GRADING AREAS THAT DRAIN TO IT.

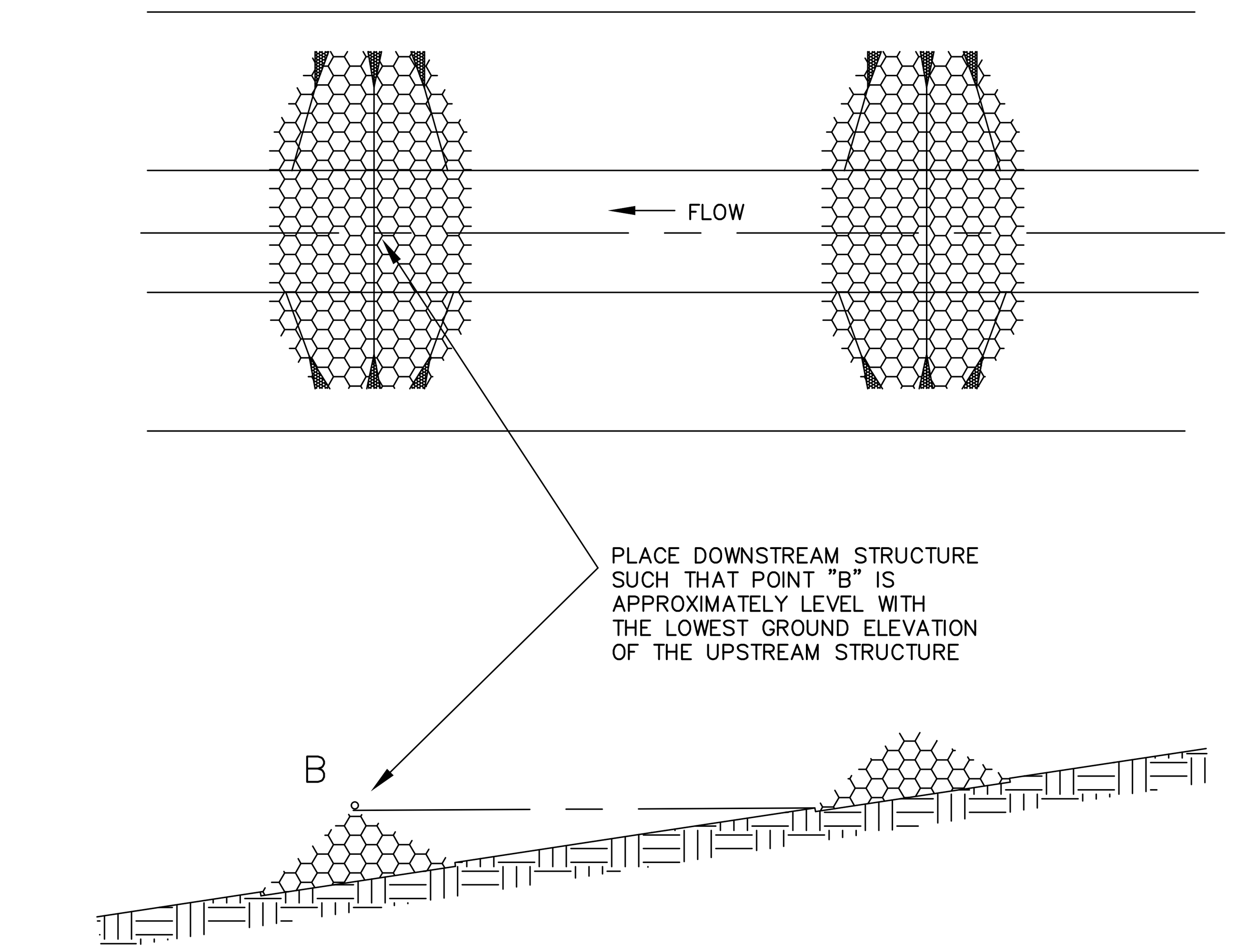
13. THE EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN, S150 OR APPROVED EQUAL, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

14. THE CONTRACTOR SHALL SPRINKLE THE BARREN AREAS AS NECESSARY TO CONTROL DUST.

15. THE CONTRACTOR IS RESPONSIBLE TO INSPECT THE EROSION CONTROL MEASURES DAILY AND MAKE ANY NECESSARY REPAIRS IMMEDIATELY.

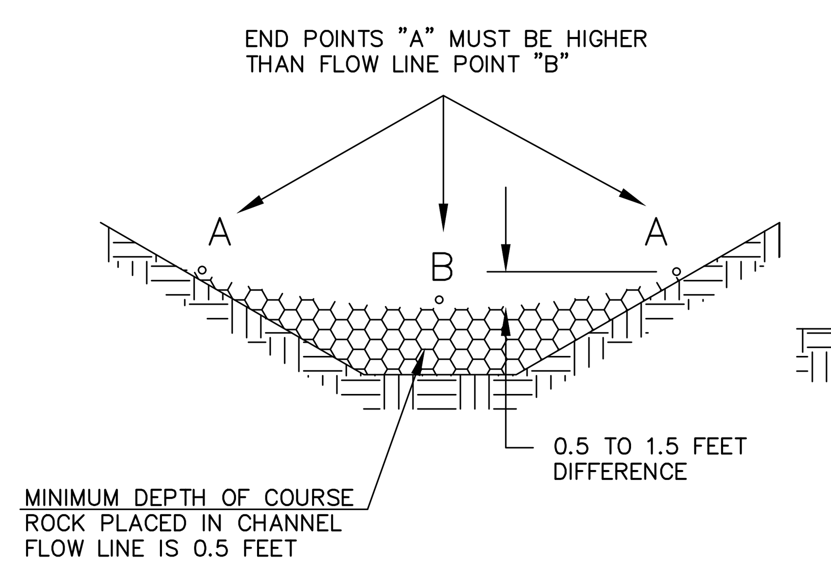
16. THE CONTRACTOR SHALL MONITOR AND KEEP OHIO STREET FREE FROM DIRT AND DEBRIS DAILY.

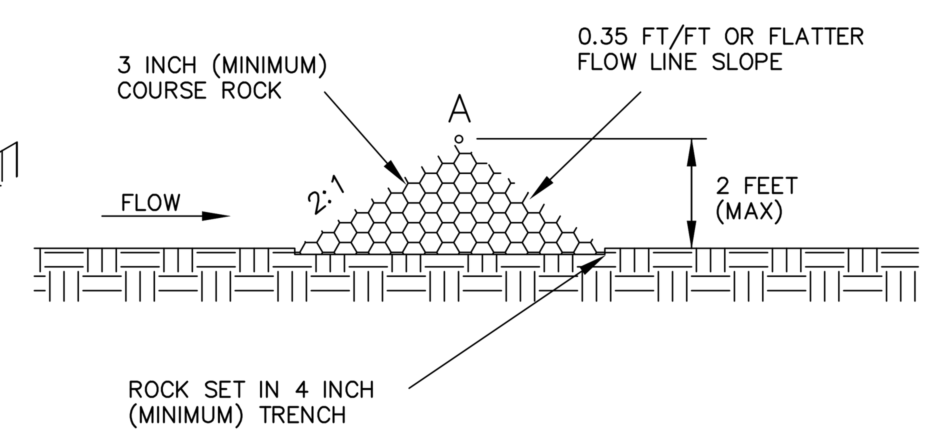
17. THE CONTRACTOR SHALL PROVIDE A CONCRETE WASHOUT BASIN TO CONTAIN ALL LIQUIDS GENERATED FROM THE RINSING OF CONCRETE MIXER CHUTES AND HOPPERS. THE BASIN SHALL BE IMPERMEABLE AND OF SUFFICIENT SIZE TO CONTAIN ALL LIQUIDS GENERATED FROM WASHOUT. THE LIQUIDS SHALL BE TRANSPORTED FROM THE SITE AND DISPOSED OF IN A KDHE APPROVED MANNER.



D-50 OF ROCK (INCHES)	DOWNSTREAM FLOWLINE SLOPE OF STRUCTURES (FT/FT) 0.35	0.30	0.25	0.20	0.15	0.10
	MAXIMUM WATER DEPTH OVER ROCK (INCHES)					
3	0.6	0.7	0.8	1.0	1.3	1.9
6	1.2	1.4	1.6	2.0	2.6	3.9

RECOMMENDED ROCK SIZE & FLOW DEPTHS





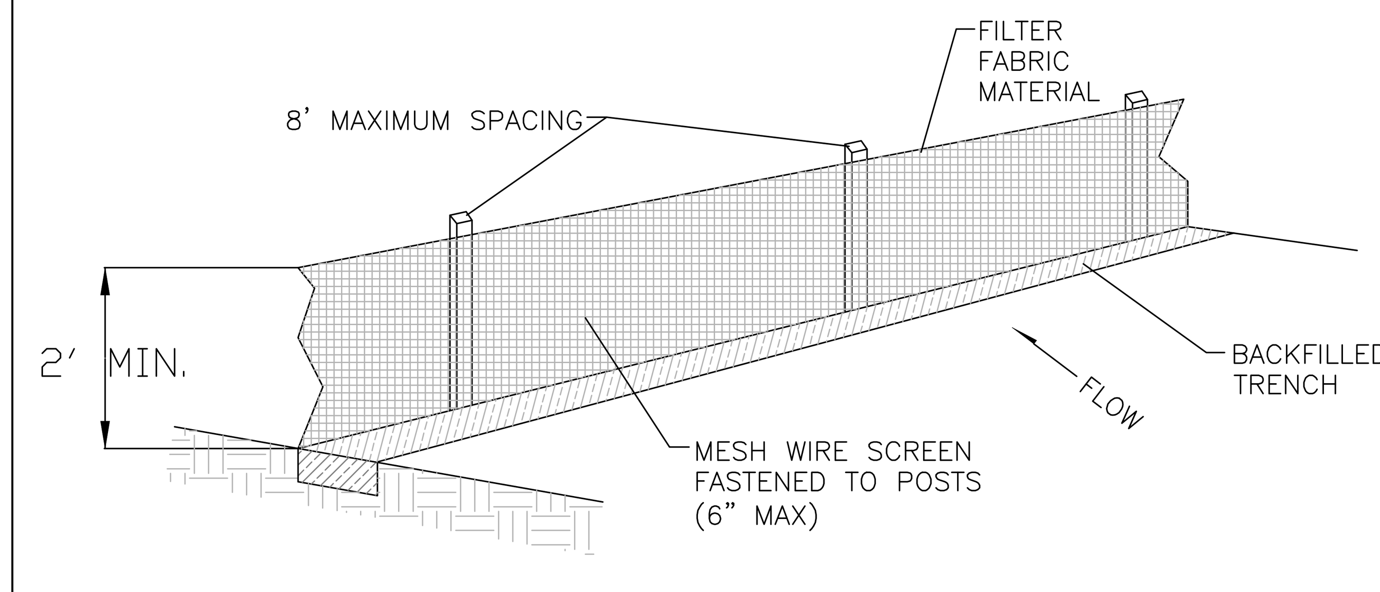
FRONT VIEW

SIDE VIEW

TEMPORARY ROCK DITCH CHECK

NOTES:
1. WHEN USED TO CONTROL SEDIMENT FROM STEEP SLOPES, FILTER FENCES SHOULD BE PLACED AWAY FROM THE TOE OF A SLOPE FOR INCREASED HOLDING CAPACITY.

2. WHEN SEDIMENT FILLS THE AREA BEHIND THE TEMPORARY ROCK DITCH CHECK TO 1/2 THE HEIGHT OF THE TEMPORARY ROCK DITCH CHECK, THE CONTRACTOR SHALL REMOVE THE SEDIMENT.



PLAN

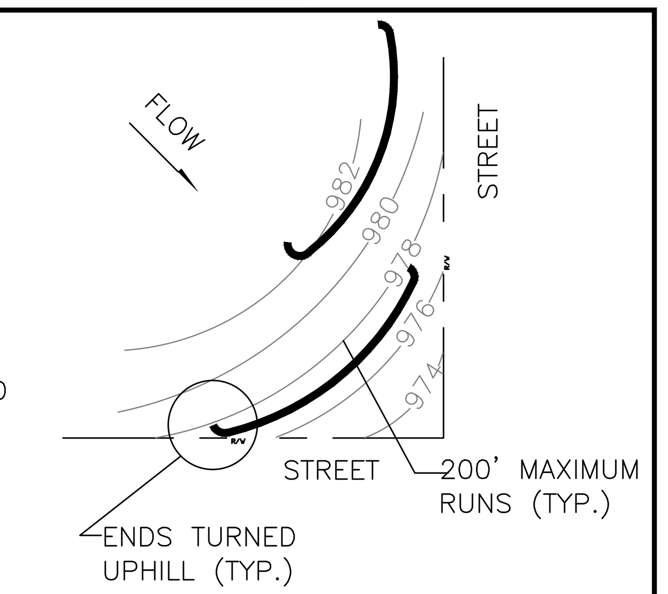
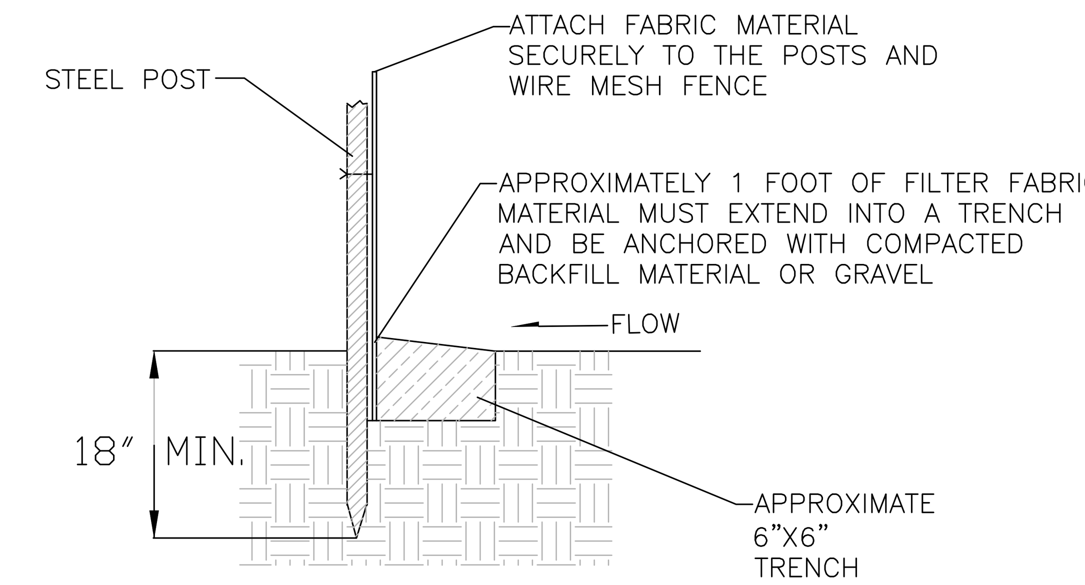


FIGURE A



PROFILE

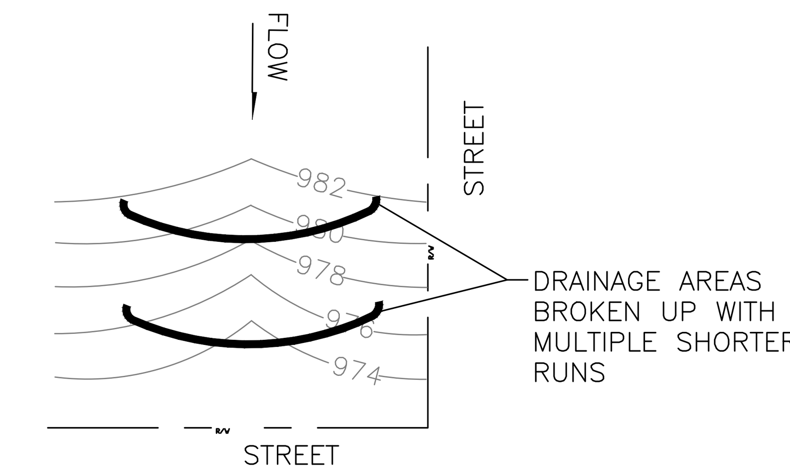


FIGURE B

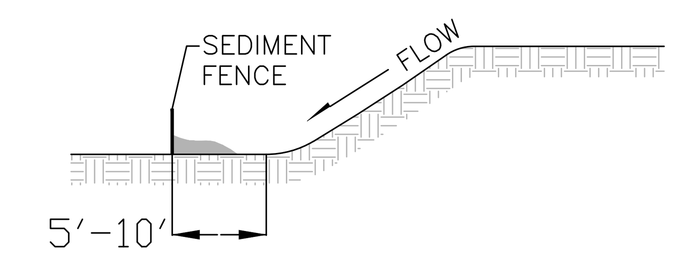
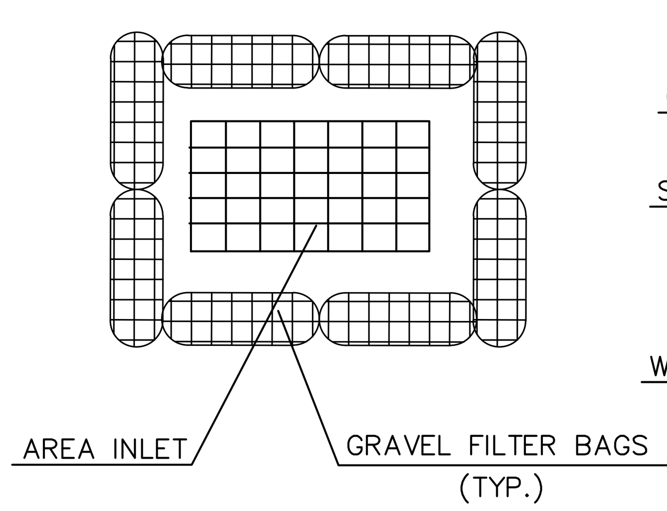


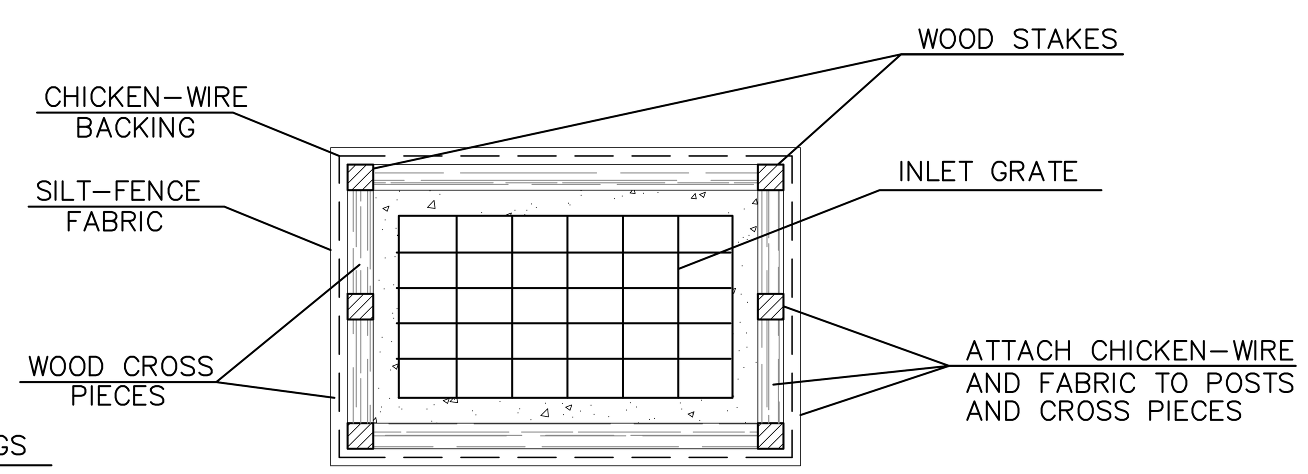
FIGURE C

NOTES:

1. THE USE OF OR HAY/STRAW BALES IS NOT ALLOWED.
2. THE SEDIMENT FENCES SHALL BE PLACED ALONG CONTOUR LINES, WITH A SHORT SECTION TURNED UPGRADE AT EACH END OF THE BARRIER TO HOLD WATER AND SEDIMENT (SEE FIGURE A).
3. AREAS THAT CONTAIN LARGER CONCENTRATIONS OF WATER SHALL LIMIT LENGTHS OF SILT FENCES TO NO LONGER THAN 200 FOOT LENGTHS (SEE FIGURE A).
4. AREAS SHOULD BE BROKEN UP WITH INTERIOR SEDIMENT FENCE TO MINIMIZE WATER CONCENTRATIONS AND LONG SLOPES (SEE FIGURE B).
5. SEDIMENT FENCES INSTALLED AT TOE OF SLOPES SHALL BE PLACED 5 FEET TO 10 FEET AWAY (DOWNSTREAM) TO CREATE SEDIMENT STORAGE (SEE FIGURE C).
6. DEPTH OF WATER CONCENTRATIONS SHOULD NOT EXCEED 1.5 FEET AT ANY POINT ALONG THE FENCE.

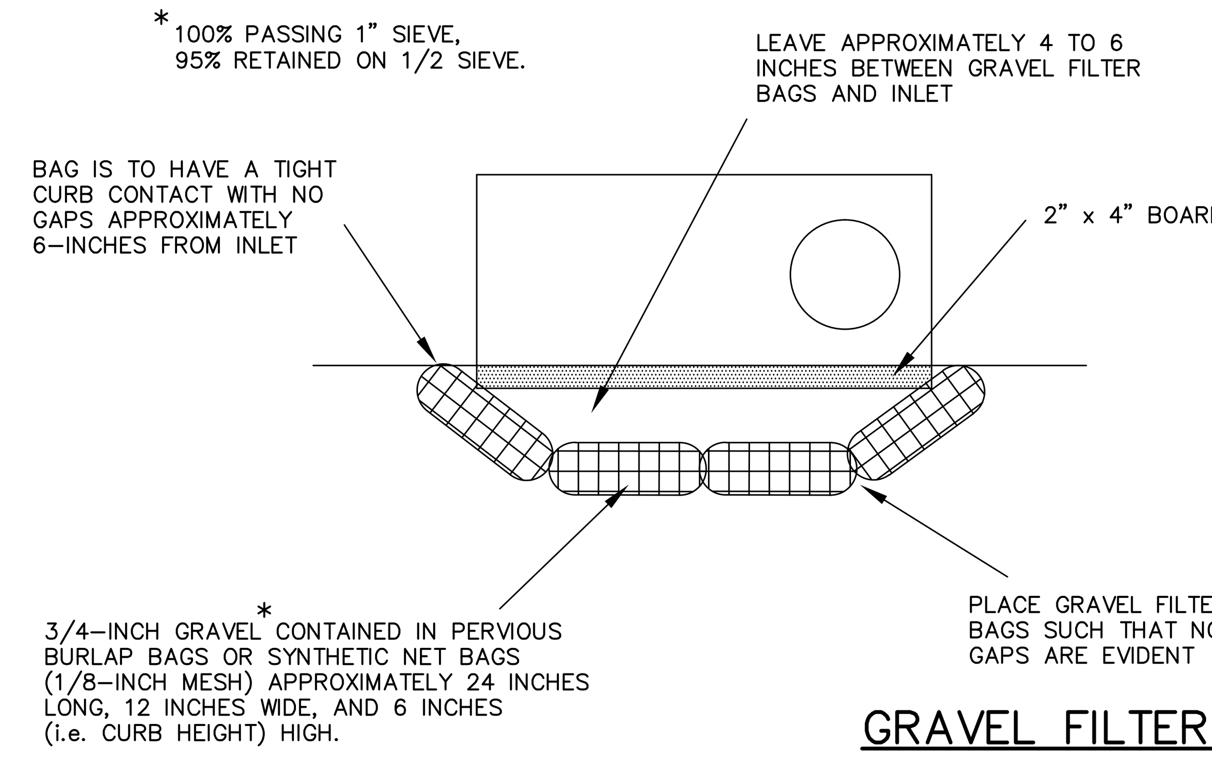
SILT FENCE

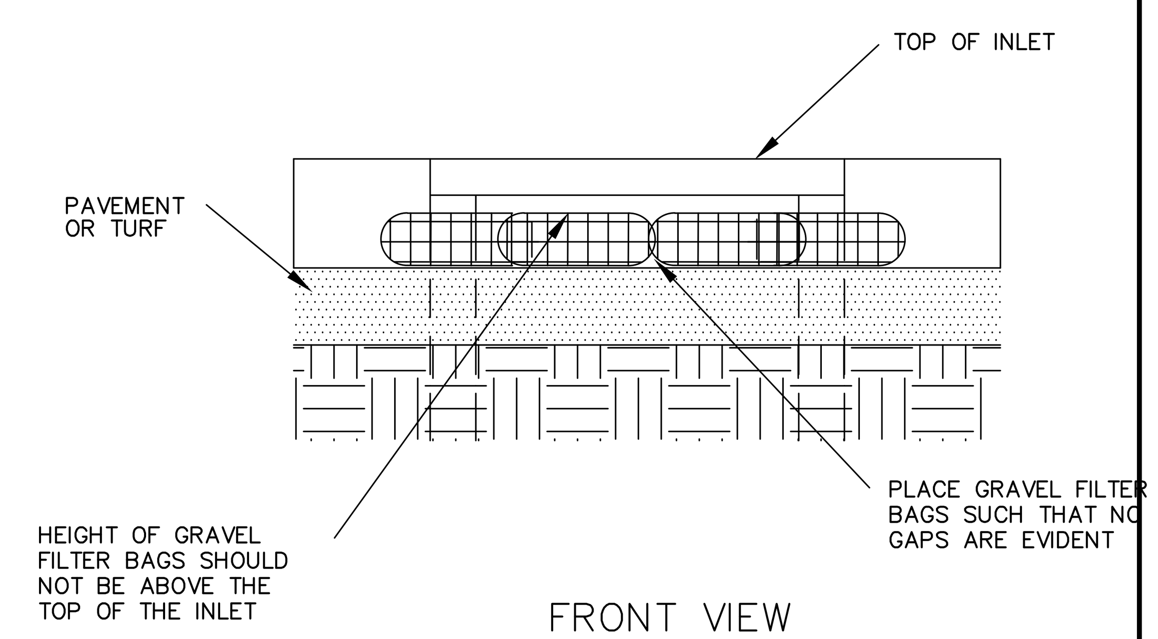




AREA INLET SEDIMENT BARRIER
NO SCALE

ALTERNATE AREA INLET SEDIMENT BARRIER
NO SCALE





FRONT VIEW

GRAVEL FILTER BAGS

NOTES:
1. GRAVEL FILTERS CAN BE USED ON PAVEMENT OR BARE GROUND.
2: WHEN SEDIMENT FILLS THE AREAS BEHIND THE SILT FENCE TO ½ THE HEIGHT OF THE SILT FENCE, THE CONTRACTOR SHALL REMOVE THE SEDIMENT.

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A.

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: KWB CHECKED BY: KWB REV:

REVISIONS:

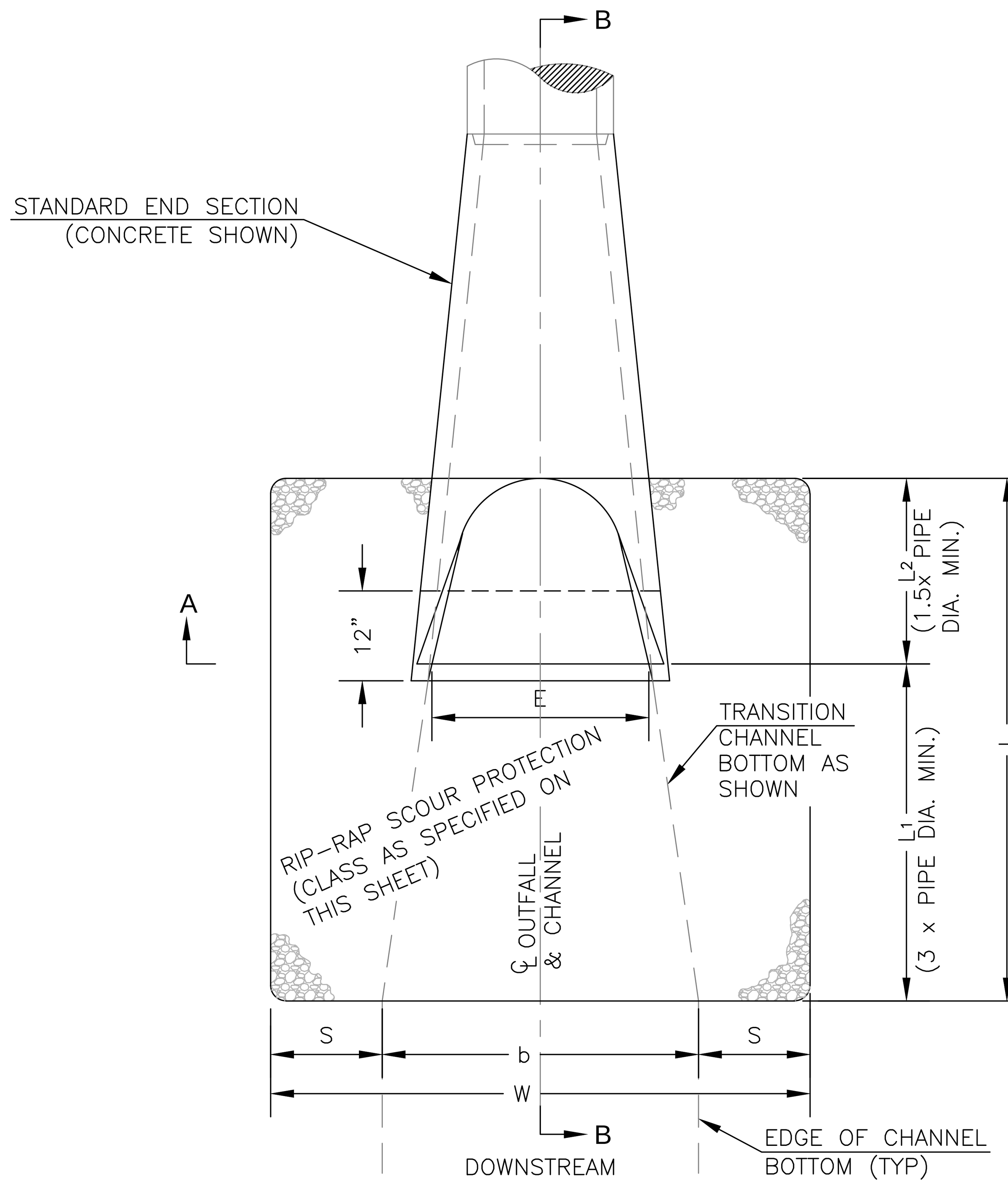
NO.	DATE	DESCRIPTION

SHEET TITLE: SWPP DETAILS I

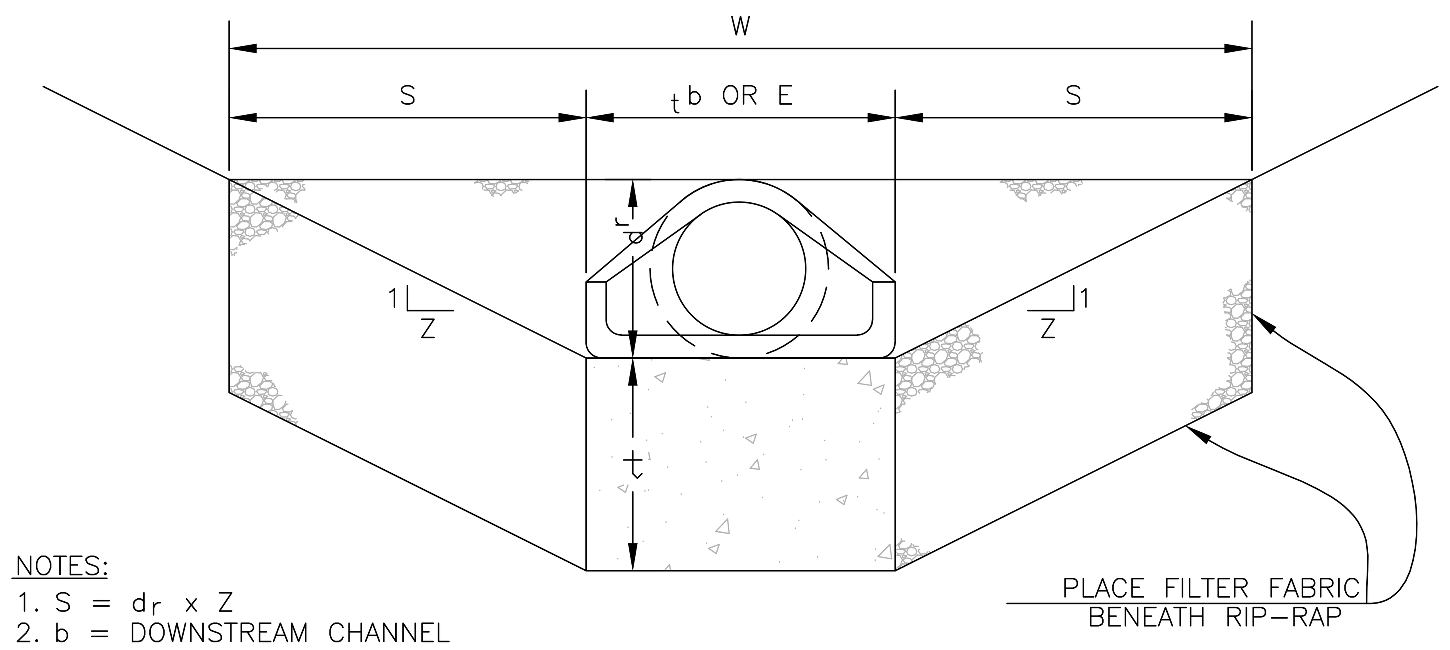
PROJECT PHASE: PHASE I

SHEET NUMBER: 89

FINAL

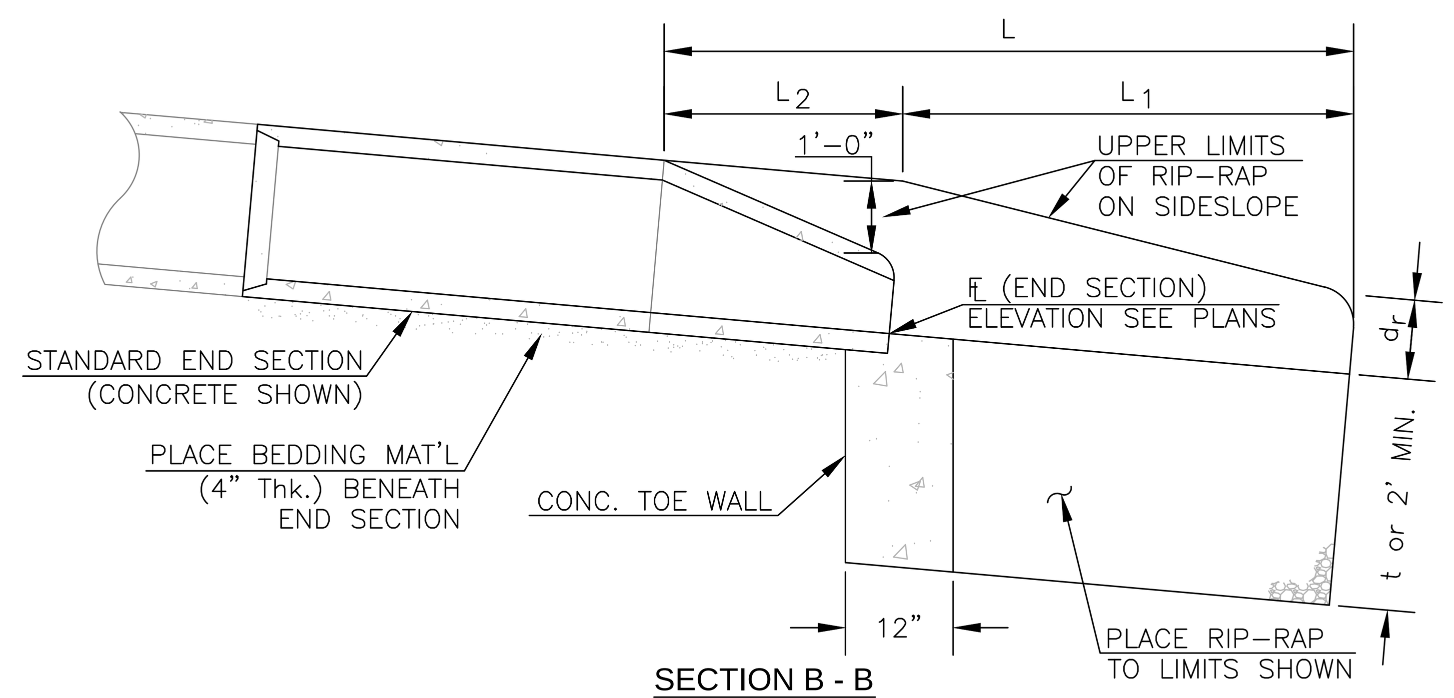


OUTFALL WITH RIP-RAP SCOUR PROTECTION



NOTES:
1. S = dr x Z
2. b = DOWNSTREAM CHANNEL BOTTOM WIDTH

SECTION A - A



SECTION B - B

GENERAL NOTES:

1. MATERIALS USED FOR STONE RIP-RAP SHALL CONFORM TO THE REQUIREMENTS OF SUB-SECTION 1116 OF THE KANSAS DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS, ED 2007. GRADATION FOR EACH CLASS OF RIP-RAP SPECIFIED SHALL BE IN ACCORDANCE WITH THE ABOVE TABLE.

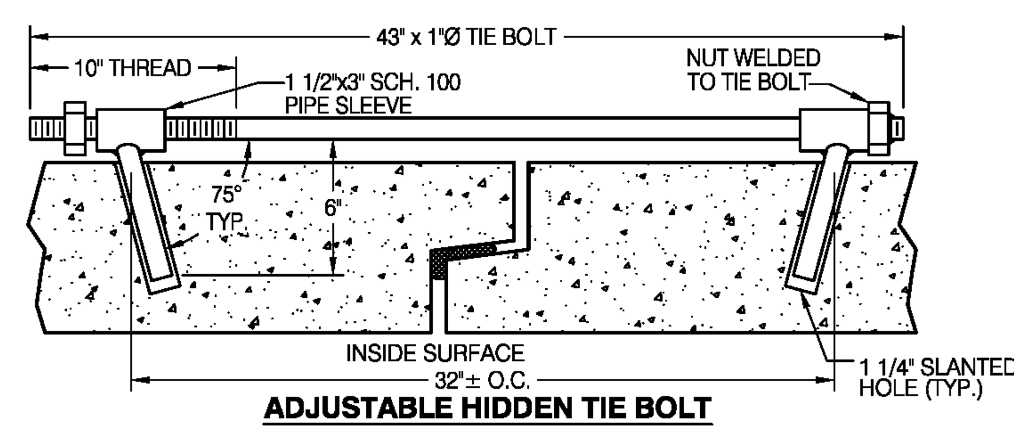
RIP-RAP GRADATION REQUIREMENTS

CLASS	D_{50}	*GRADATION, MINIMUM PERCENTAGE LARGER THAN									
		2000lb	1400lb	700 lb	500 lb	200 lb	100 lb	60 lb	40 lb	25 lb	12 lb
		3' dia	2.5'dia	2' dia	1.8'dia	1.3'dia	1.0'dia	0.9'dia	0.8'dia	0.7'dia	0.5'dia
I	0.50' 0.75'						0				100
II	1.00' 1.50'			0						100	
III	2.00'	0							100		

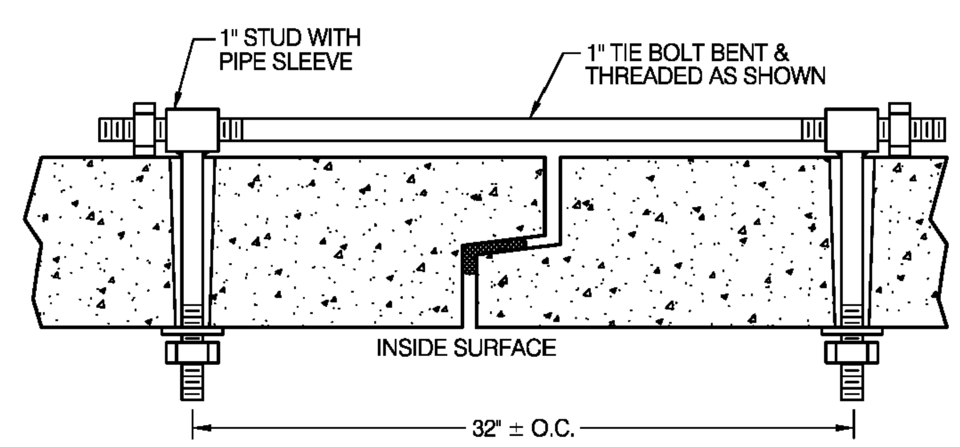
*BASED ON UNIT WEIGHT OF 165 lb/ft^3 – MINIMUM UNIT WEIGHT = 150 lb/ft^3

OUTFALL SCHEDULE

OUTFALL NO	d_r	Z	S	b or E	W	L_1	L_2	L	RIP-RAP CLASS	t	TRANSITION			
											E	A	W_t	d_t
30"	38"	3	9.5'	5'	24'	4'	12'	16'	II	2.0'				



ADJUSTABLE HIDDEN TIE BOLT

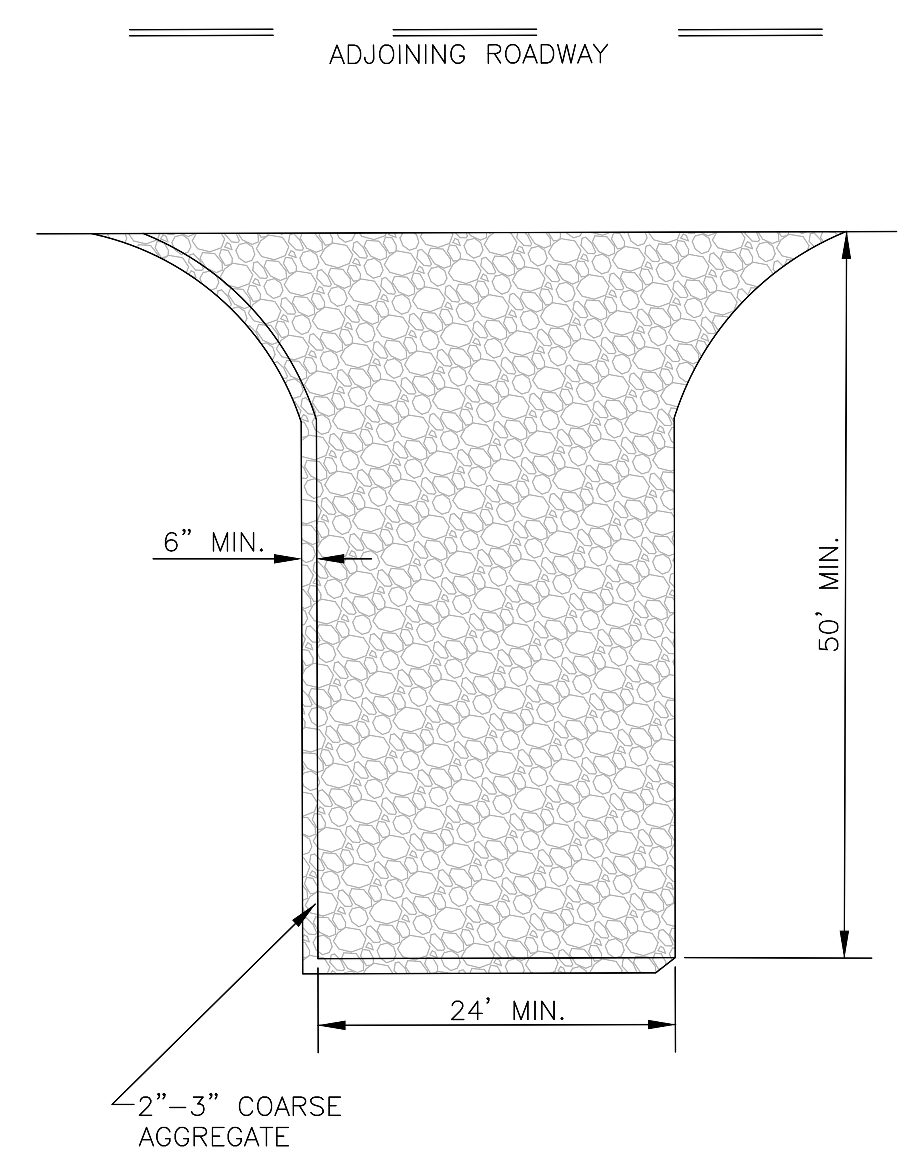


THROUGH HOLE DESIGN

NOTES:
1.) Tie bolts are manufactured from 29/32" diameter material conforming to ASTM A36.
2.) Standard 1" diameter threads are rolled on adjusting bolts.
3.) Heavy hex nuts conform to ASTM A563.
4.) The welded pipe sleeve conforms to ASTM A53, Grade B.
5.) Welding and weld inspections are done in accordance with AWS/ANSI D1.1-94 Structural Welding Code.

TIE BOLTS SYSTEM

THE TIE BOLT SYSTEM SHALL BE USED ON THE END SECTIONS AND THE THREE JOINTS PROCEEDING THAT.



NOTES:

1. GEOTEXTILE FABRIC MAY BE USED AS AN UNDERLINER IN WET CONDITIONS TO PROVIDE STABILITY.
2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF SEDIMENT ON TO STREETS.

CONSTRUCTION ENTRANCE

SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: KWB CHECKED BY: KWB REV:

REVISIONS:

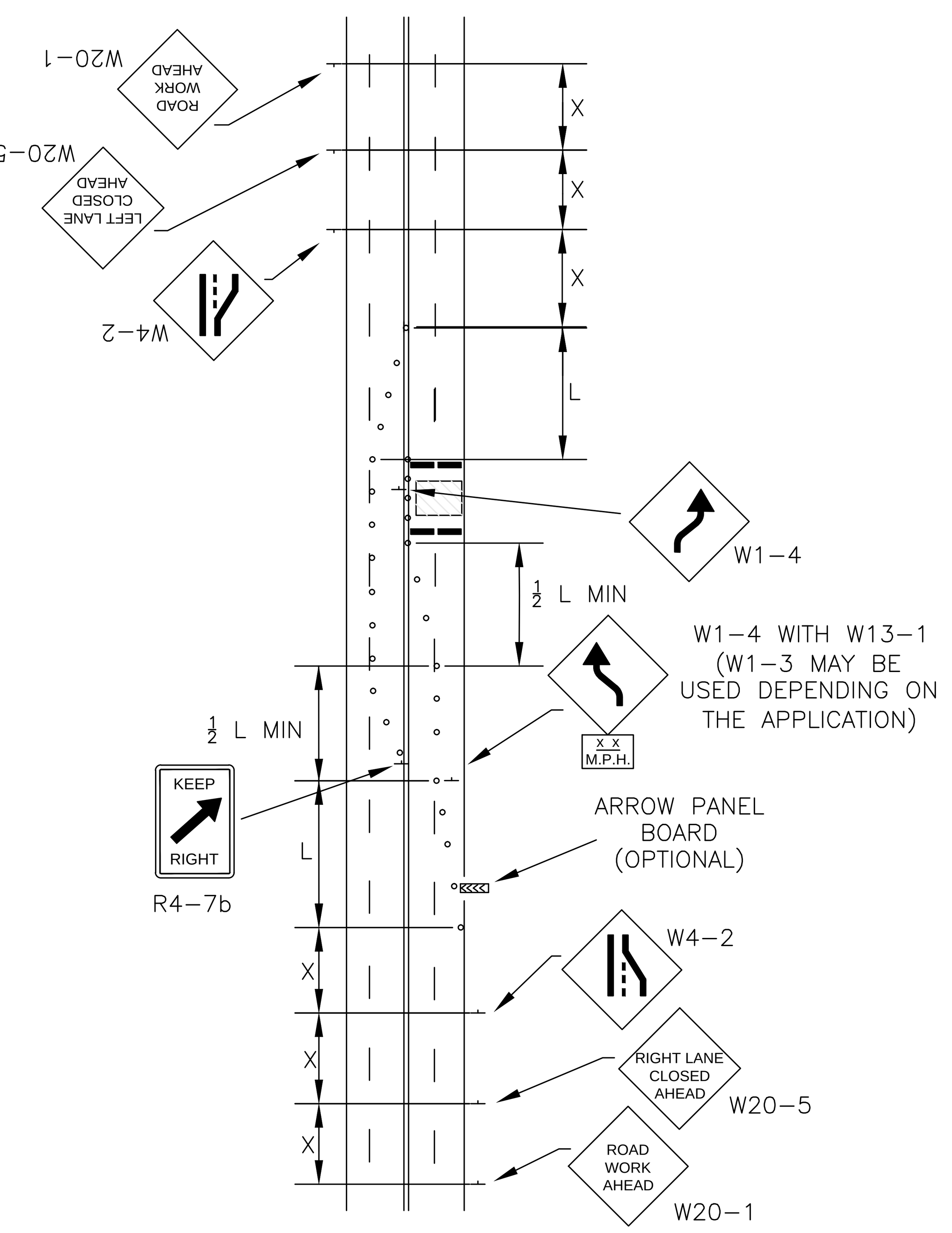
NO.	DATE	DESCRIPTION

SHEET TITLE: SWPP DETAILS II

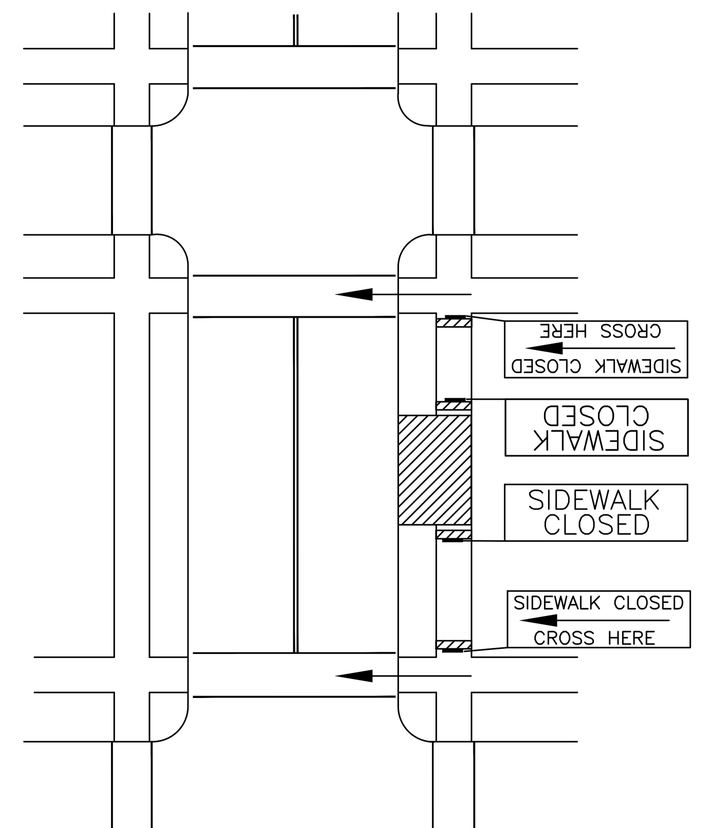
PROJECT PHASE: PHASE I

SHEET NUMBER: 90

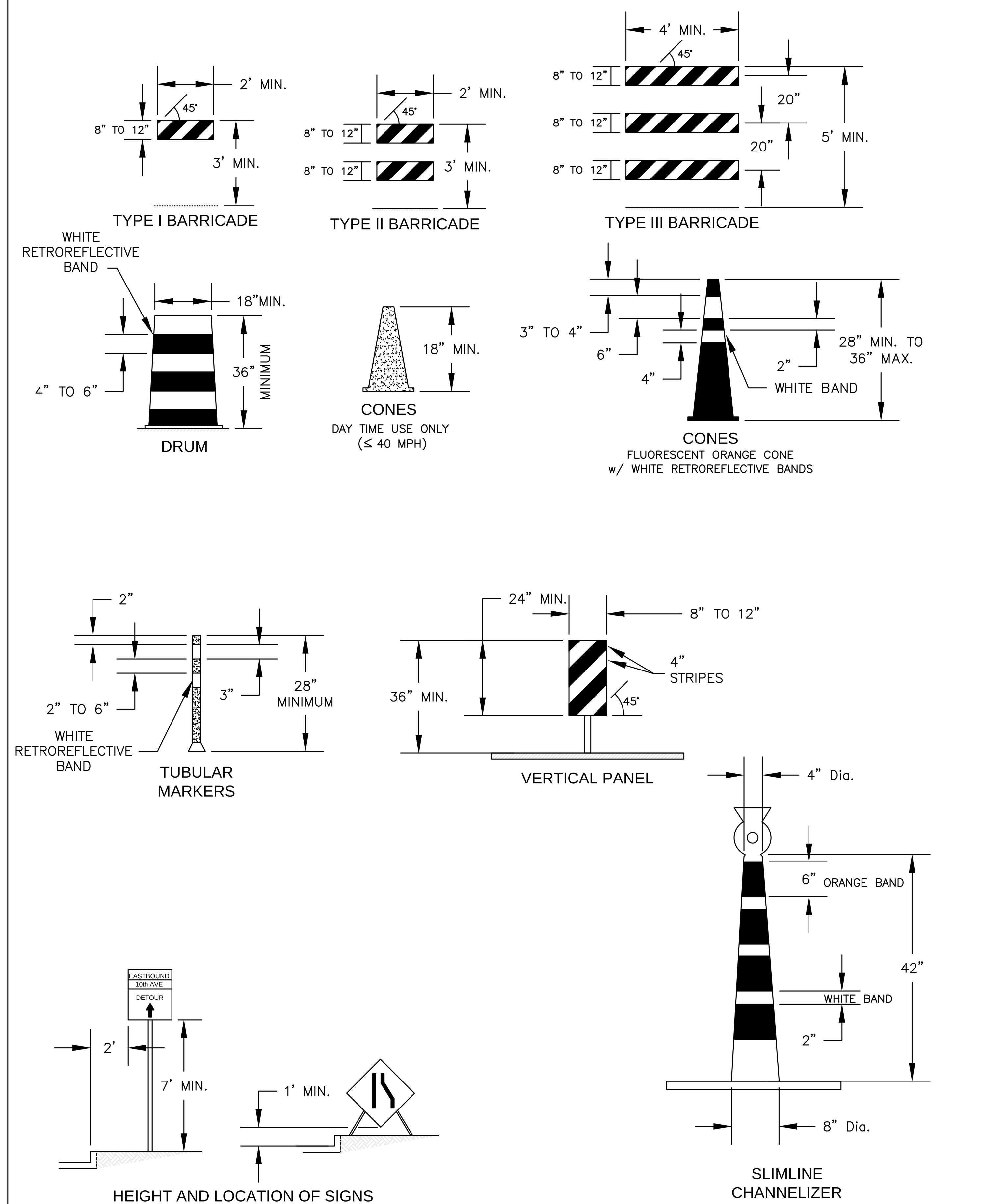
FINAL



4-LANE UNDIVIDED ROADWAY-HALF ROADWAY IS CLOSED



SIDEWALK CLOSURE AND PEDESTRIAN DETOUR



LEGEND

- ▬ = TYPE III BARRICADE
- ● = REFLECTORIZED DRUMS OR FLUORESCENT ORANGE CONES OR SLIMLINE CHANNELIZERS
- = ARROW PANEL BOARD
- = WORK SPACE
- = TYPE I BARRICADE w/ SIGN
- = SIGN
- = FLAGGER

FOR POSTED SPEEDS OF 40 MPH OR LESS "X" EQUALS 100 FEET AND "L" EQUALS WSS/60, WHERE W IS THE WIDTH, S IS THE SPEED.

FOR POSTED SPEEDS OF 45 MPH OR HIGHER "X" IS EQUAL TO 350 FEET AND "L" EQUALS WS

GENERAL NOTES:

ALL DEVICES SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

UNLESS OTHERWISE NOTED, ALL TRAFFIC CONTROL DEVICES SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR.

ALL DEVICES (SIGNS, DRUMS, BARRICADES, ETC.) SHALL BE FULLY RETROREFLECTORIZED WITH A MATERIAL THAT HAS A SMOOTH SEALED OUTER SURFACE.

SIGNS SHALL BE PROPERLY MAINTAINED FOR CLEANLINESS, VISIBILITY, AND CORRECT POSITIONING.

SIGNS THAT HAVE LOST SIGNIFICANT LEGIBILITY SHALL BE PROMPTLY REPLACED.

CONTRACTOR MUST OBTAIN UTILITY LOCATES PRIOR TO INSTALLING ANY SIGNPOSTS.

UNLESS IT IS AN EMERGENCY, SIGNS LEFT IN PLACE FOR LONGER THAN 3 DAYS MUST BE POST MOUNTED.

POST MOUNTED SIGNS TO BE INSTALLED 7 FOOT ABOVE THE ROADWAY. IF THERE IS A SECONDARY SIGN, IT MAY BE MOUNTED AT 6 FOOT. SIGNS MOUNTED ON PORTABLE SUPPORTS SHALL BE AT LEAST ONE FOOT ABOVE THE ROADWAY.

NO COMPANY OR AGENCY NAME SHALL APPEAR ON THE FACE OF ANY TRAFFIC CONTROL DEVICES.

THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT.

UNLESS AN EMERGENCY SITUATION, FLAGGERS ARE TO BE USED IN DAYTIME OPERATIONS ONLY (UNLESS ROADWAY HAS LIGHTING). FLAGGERS ARE TO WEAR HIGH-VISIBILITY SAFETY APPAREL AS SPECIFIED IN THE MUTCD.

THE FLAGGER SIGN SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM ROAD USERS WHEN THE FLAGGING OPERATIONS ARE NOT OCCURRING.

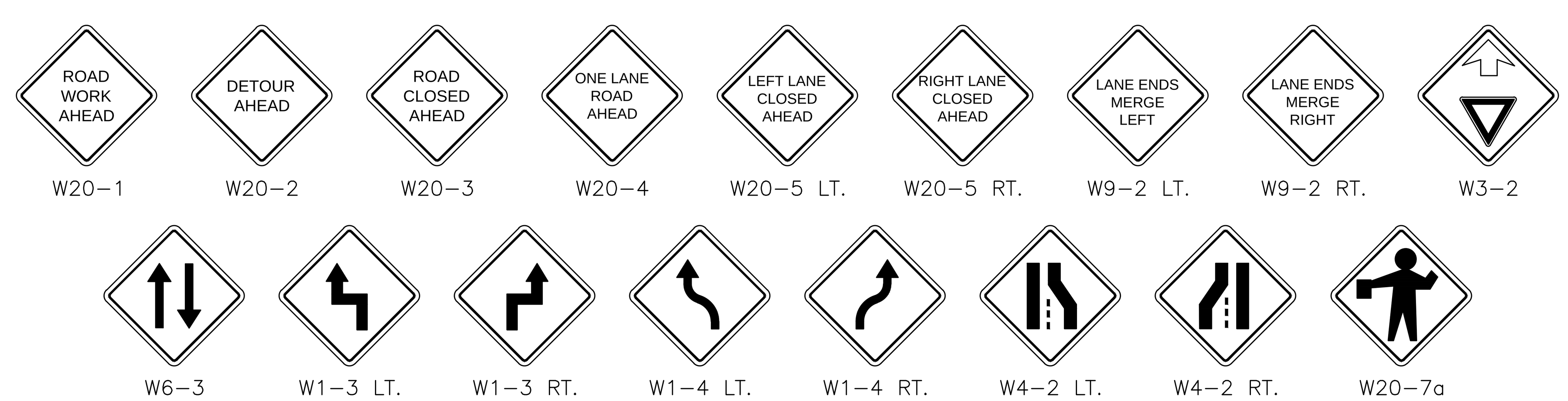
ALL SIGNS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM ROAD WHEN NOT IN USE.

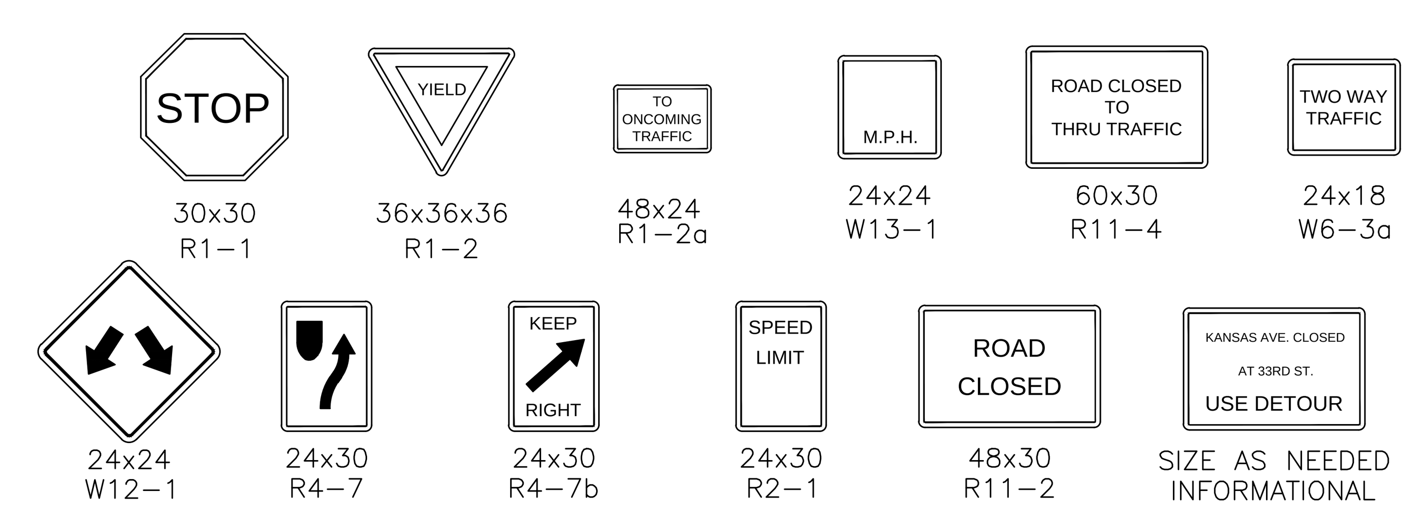
CONTRACTOR MAY BE REQUIRED TO ADD SNOW FENCE TO PROHIBIT PEDESTRIANS FROM ENTERING THE WORK AREA

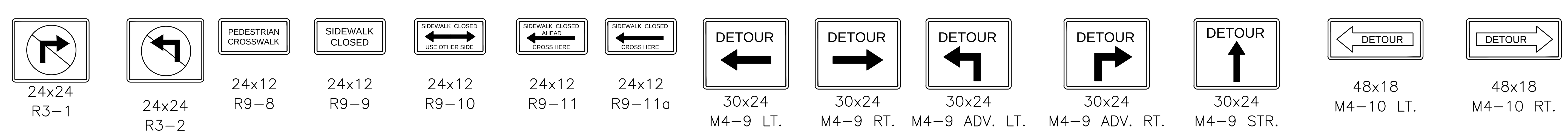
DO NOT PARK IN BUFFER SPACE

IF A DOWNSTREAM TAPER IS USED, IT SHOULD BE 50' - 100' WITH CHANNELIZERS SPACED AT 20'.

ALL WORKERS SHALL WEAR HIGH VISIBILITY APPAREL MEETING ANSI 107-2004 CLASS 2 OR 3.







SEAL:

DESIGNER: CFS Cook, Flatt & Strobel ENGINEERS, P.A. 2930 SW WOODSIDE DR. TOPEKA, KANSAS 66614 (785)272-4706

CFS PROJECT NO: 10-5140

DEVELOPER: ComPro Realty 157 So. Seventh Salina, KS 66901

OWNER: Sparrowhawk Land, LLC 105 Industrial Road Concordia, KS 66901

STREET, SEWER & WATER IMPROVEMENTS TO SERVE STONE LAKE ADDITION, PHASE I SALINA, KANSAS CITY OF SALINA PROJECT NO. 10-2816

DATE: 6/9/11 DRAWN BY: KWB CHECKED BY: KWB REV:

REVISIONS:

NO.	DATE	DESCRIPTION

SHEET TITLE: TRAFFIC CONTROL

PROJECT PHASE: PHASE I

SHEET NUMBER: 91

FINAL