STORM WATER SEWER NO. 195 - PHASE 1

K.T. WIEDEMANN BUSINESS PARK

LOTS 1-14, BLOCK 1; LOTS 1-9, BLOCK 2; LOTS 1-6, BLOCK 3

PROJECT NO. 468-80969

OCA # 751283

GENERAL NOTES

Contractor will be required to provide a minimum advance notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows:

Kansas One-Call	687-2470

The Contractor must notify the following in case of an emergency:

Cablevision	262-0851
Kansas Gas Service	383-8600
KGE Electric	383-8600
Peoples Natural Gas Company	1-800-303-0357
Southwestern Bell Telephone Company	1-800-286-9313
City of Wichita Water Department	262-6000
City of Wichita Sewer Maintenance	262-6000

Interurban traffic generated outside the project area and local business or apartment traffic generated within the project area are to be carried through construction as further promulgated by project special provisions.

Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

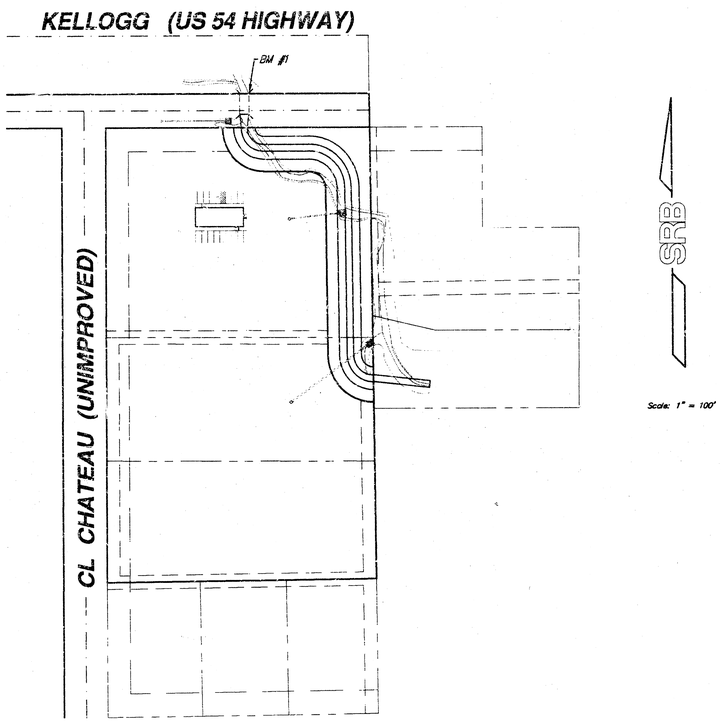
All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps permitting regulations. Any material buried or stockpiled beyond approved of Engineers construction limits would require additional archeological investigations unless buried in a previously approved borrow location.

Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

Reseed all disturbed areas with a seeding mixture of 50% Brome and 50% Fescue applied at a rate of 300 lbs. per acre. Both seeds shall be 99% pure and certified. Fertilizer shall be applied at a rate of 200 lbs. per acre.



BENCH MARKS

BM #1 – "+" CUT ON SOUTHEAST CORNER OF RCB ON THE NORTH SIDE OF KELLOGG DRIVE.

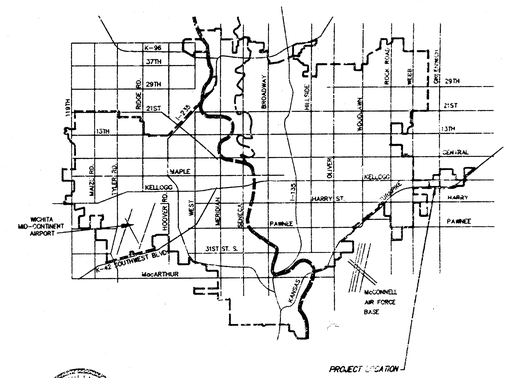
ELEV.= 1350.97 MSL

BM #2 – CITY OF WICHITA BENCHMARK LOCATED 1/2 MILE EAST OF WEBB ROAD ON NORTH SIDE OF KELLOGG, 71 FEET NORTH OF THE CENTERLINE OF KELLOGG.

ELEV.=1358.65 MSL

INDEX OF SHEETS

1. TITLE SHEET
2. CHANNEL SECTION
3. HOOK-UP SECTION
4. PANEL LAYOUT FOR CURVES
5. JOINT LAYOUT AND DETAILS
6-7. PLAN/PROFILE SHEETS
8-10. CROSS SECTIONS



VICINITY MAP



CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621

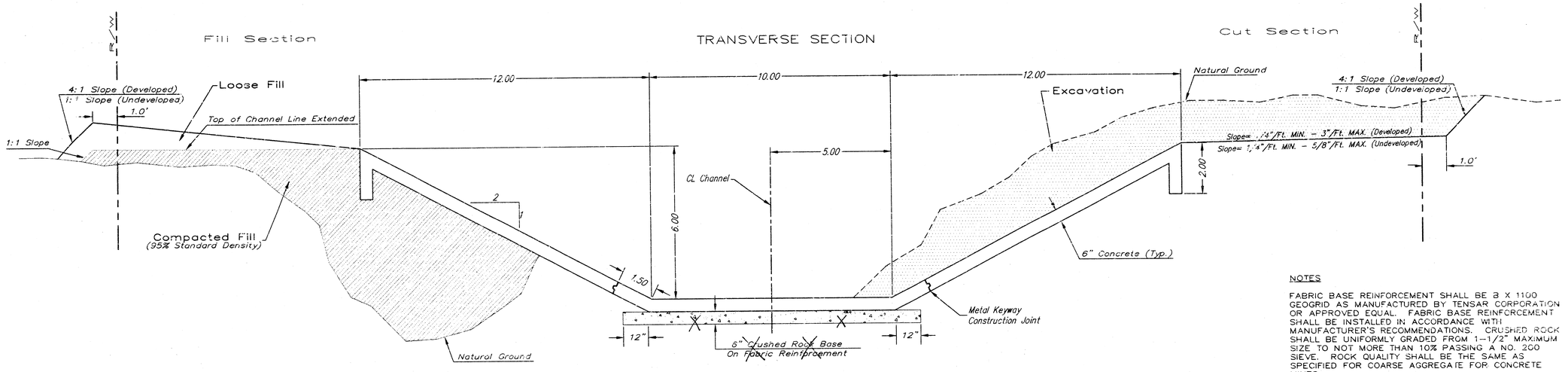
SAVOY, RUGGLES & BOHM, P. A.

ENGINEERING & SURVEYING

15570

TYPICAL 6' DEEP CONCRETE-LINED CHANNEL DETAILS

TRANSVERSE SECTION

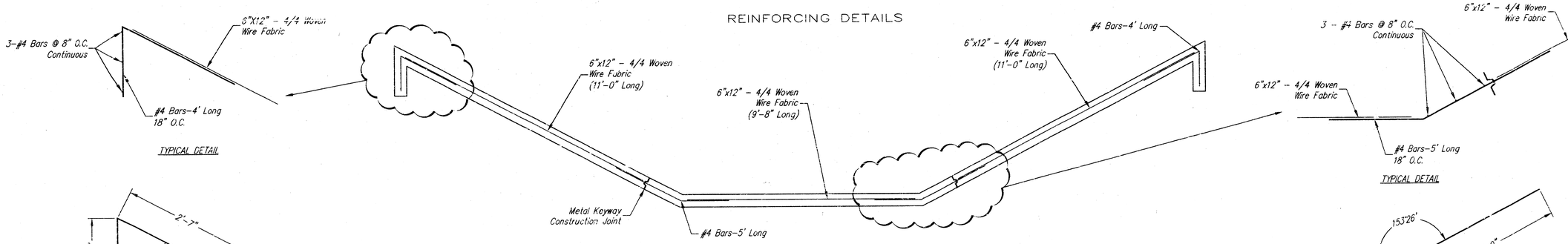


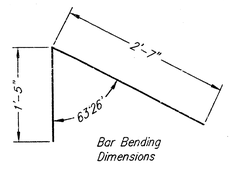
NOTES

FABRIC BASE REINFORCEMENT SHALL BE 8 X 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1-1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF CONCRETE.

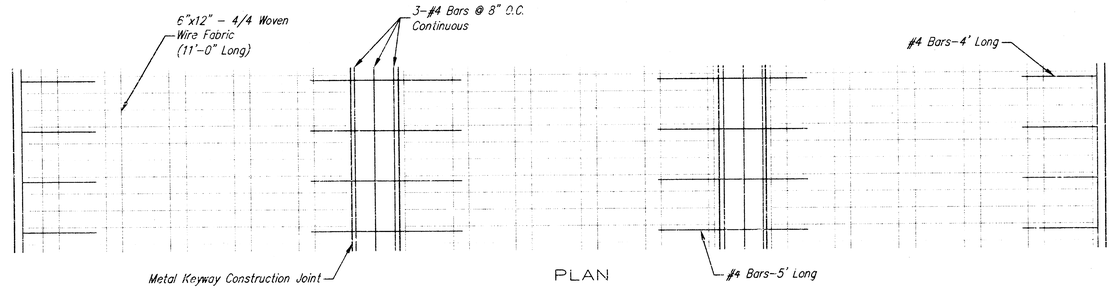
REINFORCING DETAILS





Bar Bending Dimensions

Bar Bending Dimensions



CHANNEL DETAILS

STORM WATER SEWER NO. 195 - PHASE 1

WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.faist.com/~srb
316-264-8008
FAX 264-4621
E-mail: srb@faist.com

SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

PROJECT NUMBER
468-80969 (751283)

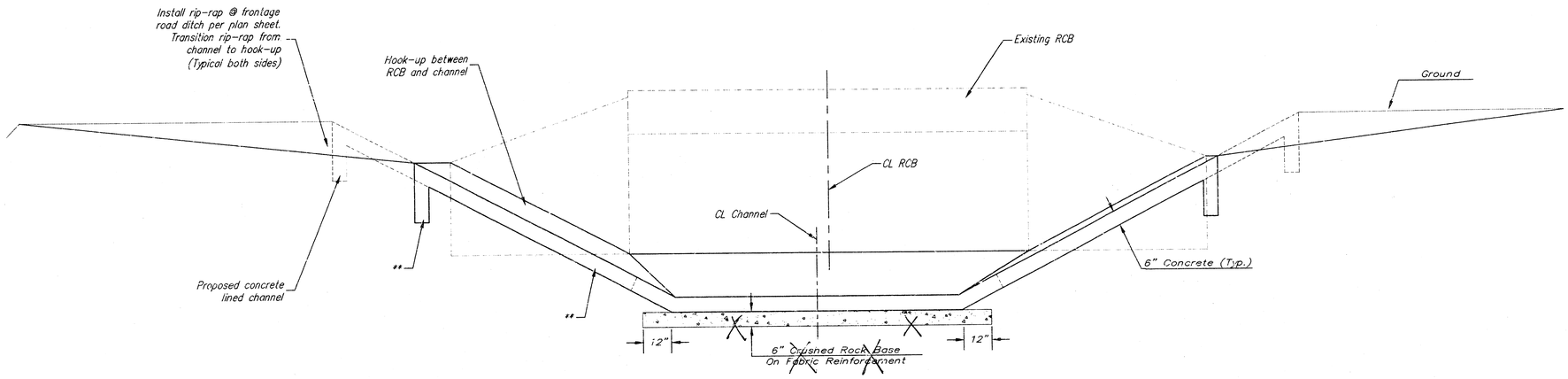
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TCR	MWS			03/07/00	

DWG FILE OR JOB NUMBER: PWS-2000 3000

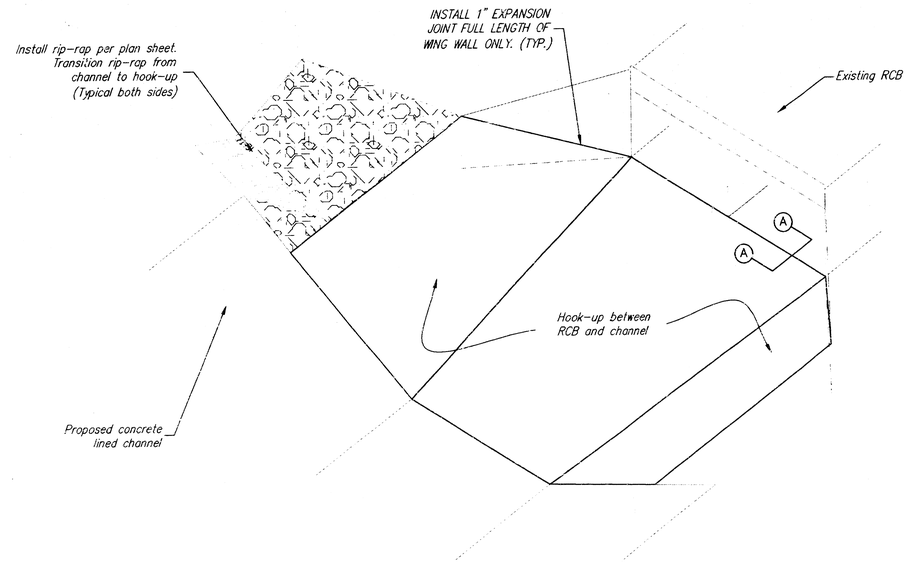
SHEET 2 of 10

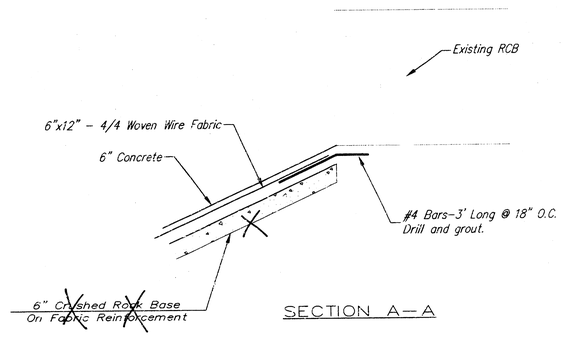
HOOK–UP BETWEEN RCB AND CONCRETE CHANNEL DETAILS

TRANSVERSE SECTION

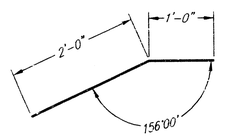


** Toe wall, slab reinforcing, slab thickness, rock base, excavation and fill of dirt work shall be similar to channel detail, sheet ____





SECTION A–A



Bar Bending Dimensions

CHANNEL DETAILS
STORM WATER SEWER NO. 195 - PHASE 1
WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feist.com/~srb
316-264-8008
FAX 264-4621
E-mail: srb@feist.com
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

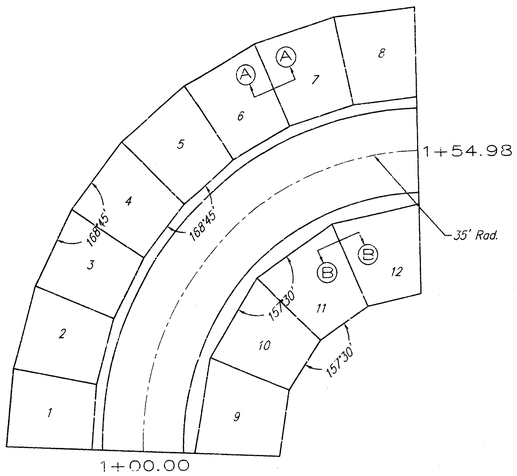
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468-80969 (751283)

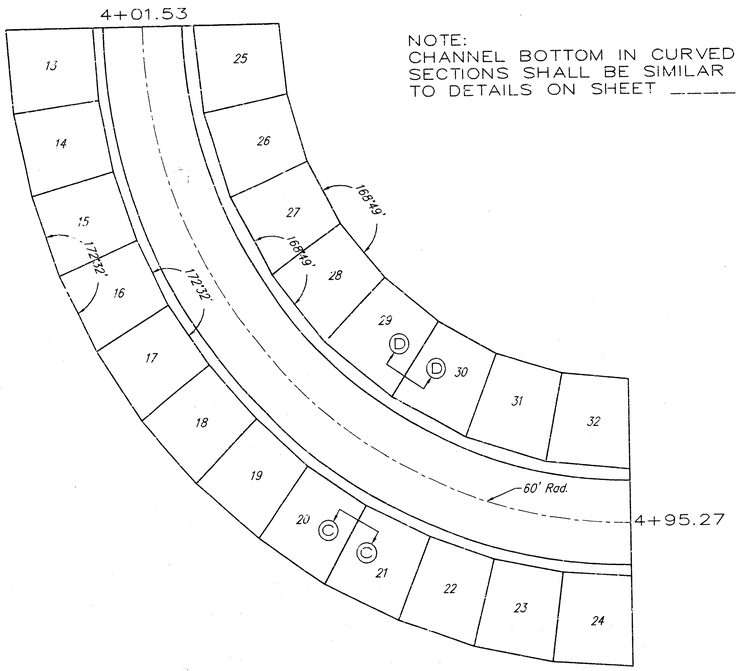
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TCR	MWS	-		03/07/00	-

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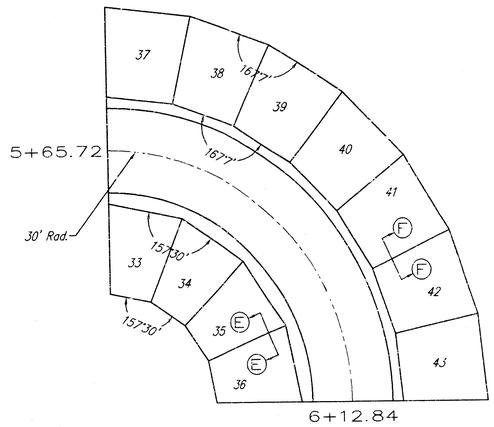
SHEET 3 OF 10

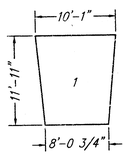
PANEL LAYOUT FOR CURVES IN CHANNEL



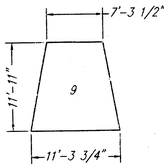


NOTE:
CHANNEL BOTTOM IN CURVED SECTIONS SHALL BE SIMILAR TO DETAILS ON SHEET ____

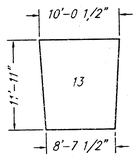




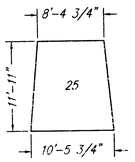
PANEL DESIGN
FOR PANELS 1–8



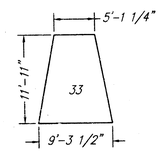
PANEL DESIGN
FOR PANELS 9–12



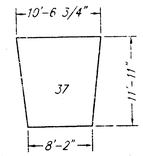
PANEL DESIGN
FOR PANELS 13–24



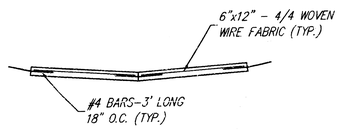
PANEL DESIGN
FOR PANELS 25–32



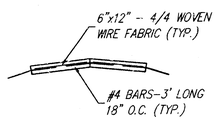
PANEL DESIGN
FOR PANELS 34–36



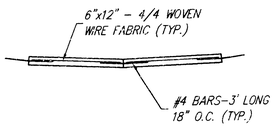
PANEL DESIGN
FOR PANELS 37–43



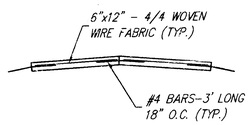
SECTION A–A



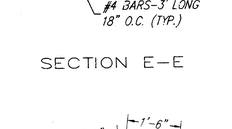
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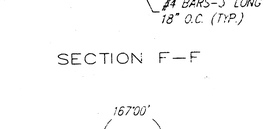
SECTION C–C



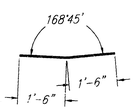
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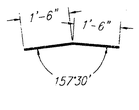
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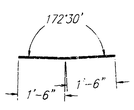
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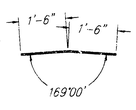
BENDING DIAGRAM



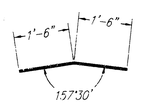
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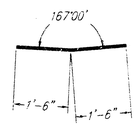
BENDING DIAGRAM



BENDING DIAGRAM



BENDING DIAGRAM



BENDING DIAGRAM

CHANNEL DETAILS
STORM WATER SEWER NO. 195 - PHASE 1
WICHITA, KANSAS

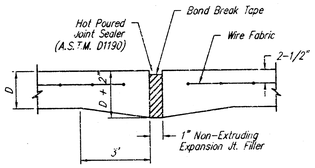
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
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SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
468-80969 (751283)

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
TCR	MWS	-		03/07/00	-

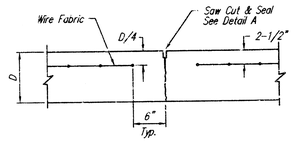
SHEET 4 OF 10

JOINT LAYOUT AND DETAILS

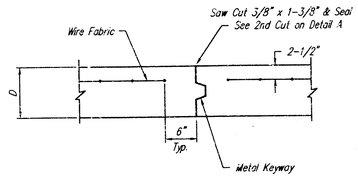


EXPANSION JOINT

NOTE: Extra Thickness to be Subsidiary to Price of Square Yards Pavement

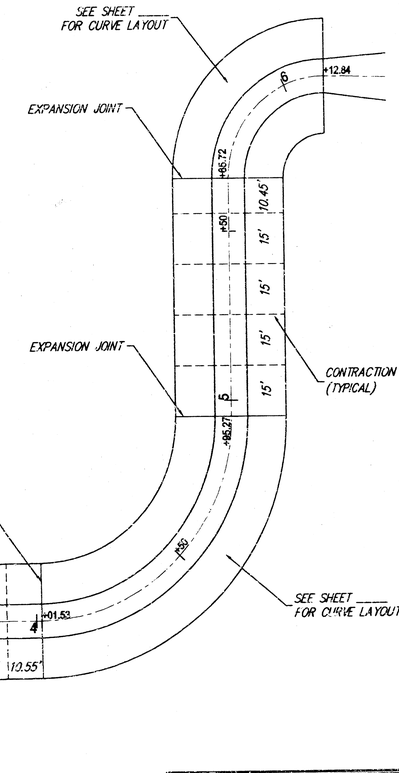


CONTRACTION JOINT DETAIL (C.J.)



OPTIONAL CONTRACTION JOINT

SAW JOINT DETAIL



CHANNEL DETAILS
STORM WATER SEWER NO. 195 - PHASE 1
WICHITA, KANSAS

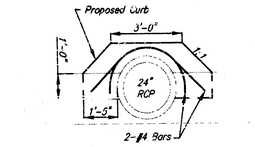
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feist.com/~srb
316-264-8008
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ENGINEERING & SURVEYING

PROJECT NUMBER: 468-80969 (751283)

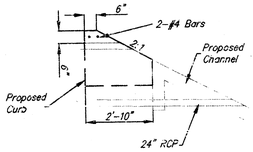
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TCR	MWS	-		03/07/00	-

PROJECT DETAILS.DWG

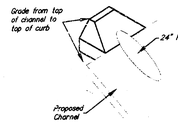
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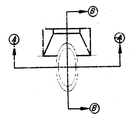


SECTION A-A

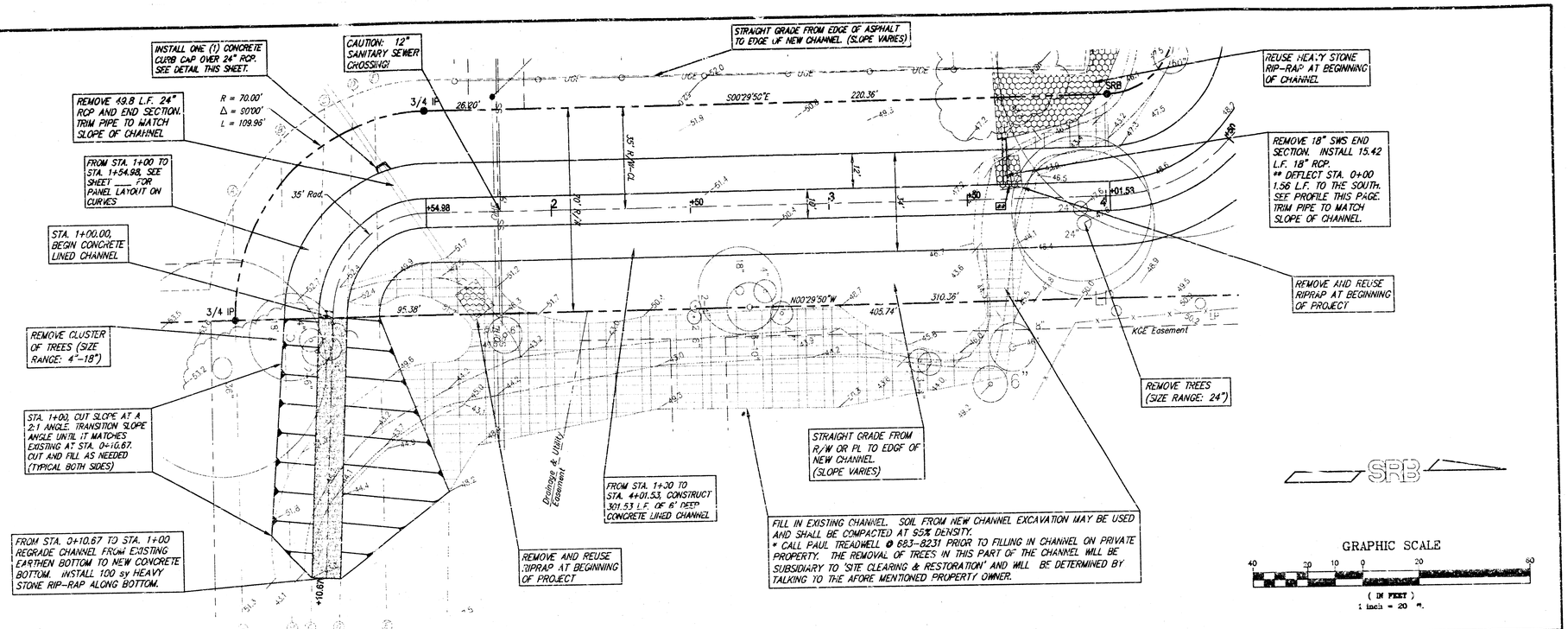


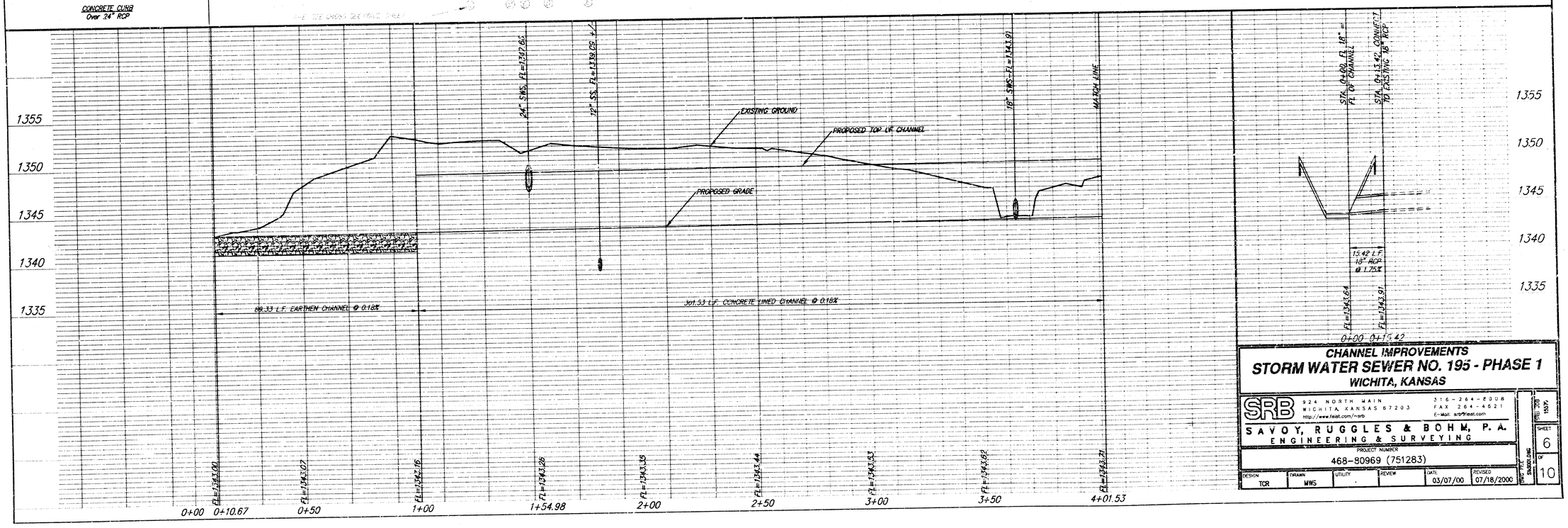
SECTION B-B





CONCRETE CURB
Over 24" RCP





CHANNEL IMPROVEMENTS
STORM WATER SEWER NO. 195 - PHASE 1
WICHITA, KANSAS

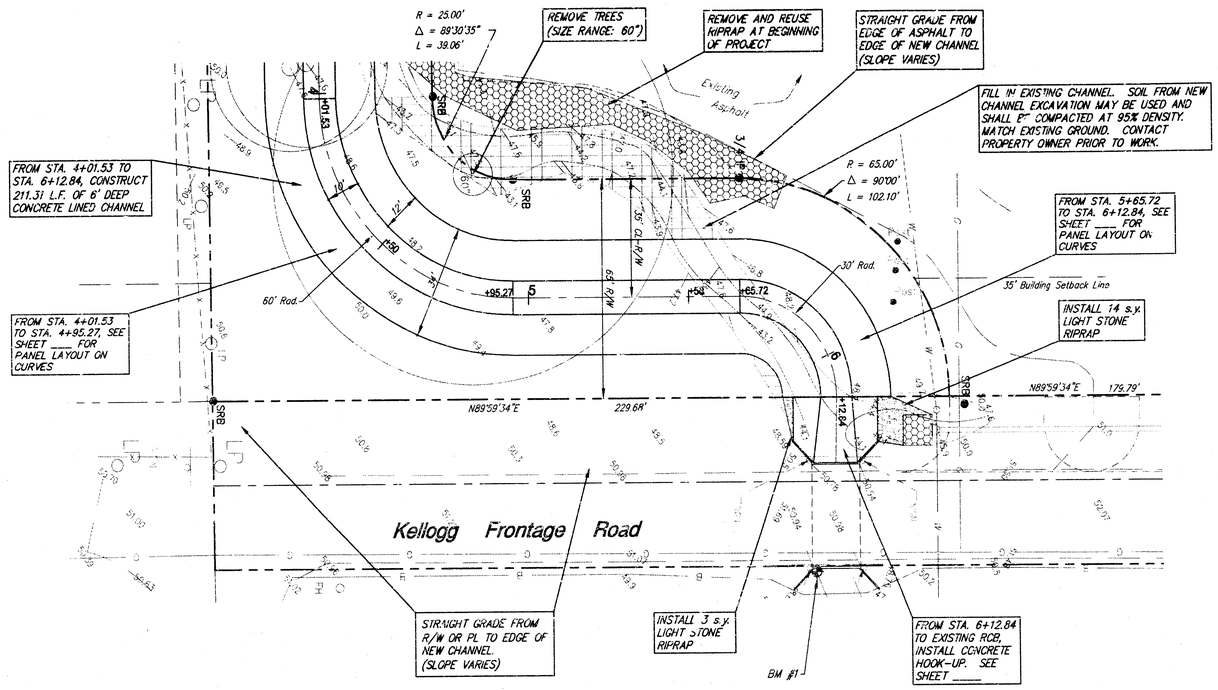
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feist.com/~srb
316-264-8008
FAX 264-4621
E-Mail srb@feist.com
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

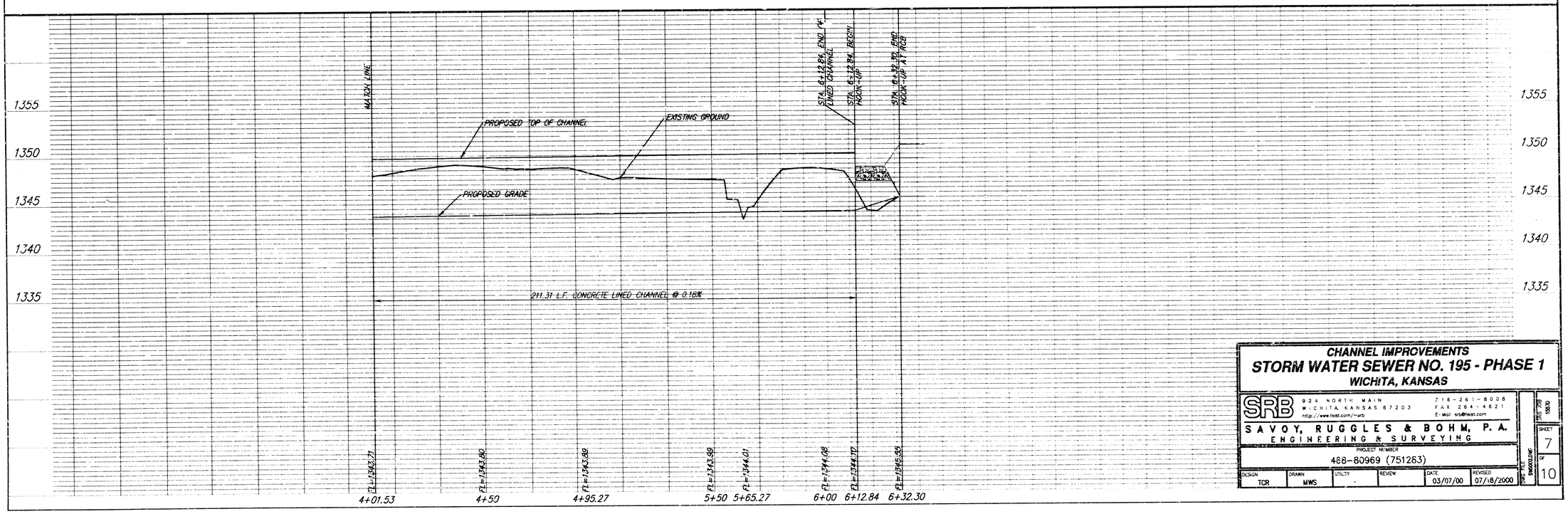
PROJECT NUMBER
468-80969 (751283)

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
TCR	MWS			03/07/00	07/18/2000

CONTROL NO. 751283 1537S

SHEET 6 OF 10





CHANNEL IMPROVEMENTS
STORM WATER SEWER NO. 195 - PHASE 1
WICHITA, KANSAS

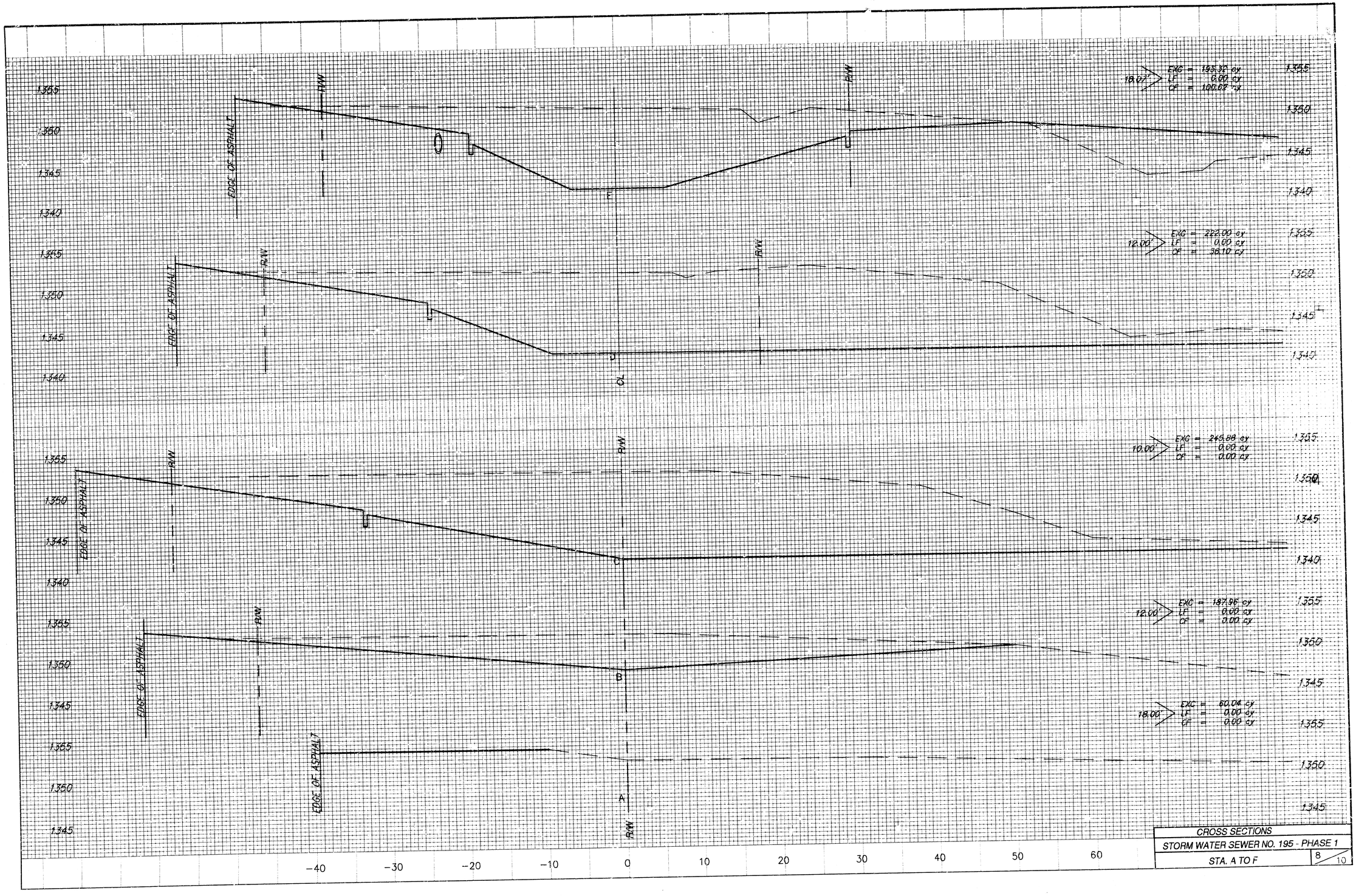
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
http://www.feat.com/~srb
316-261-8008
FAX 264-4621
E-Mail: srb@feat.com
SAVOY, RUGGLES & BOHM, P.A.
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PROJECT NUMBER
468-80969 (751263)

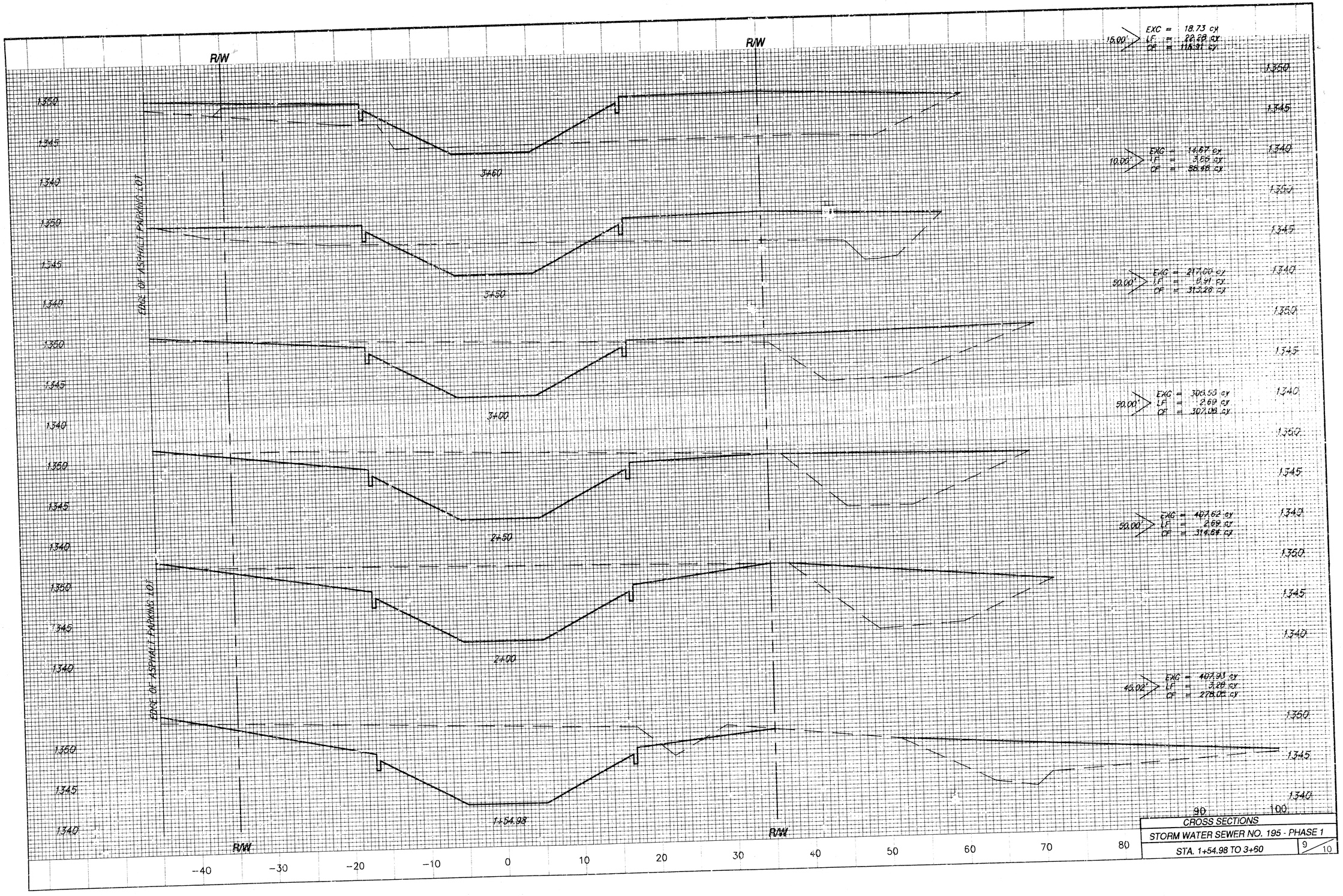
DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
TCR	MWS			03/07/00	07/18/2000

DWG FILE 80969DWG

SHEET INDEX 1570
SHEET 7
OF 10

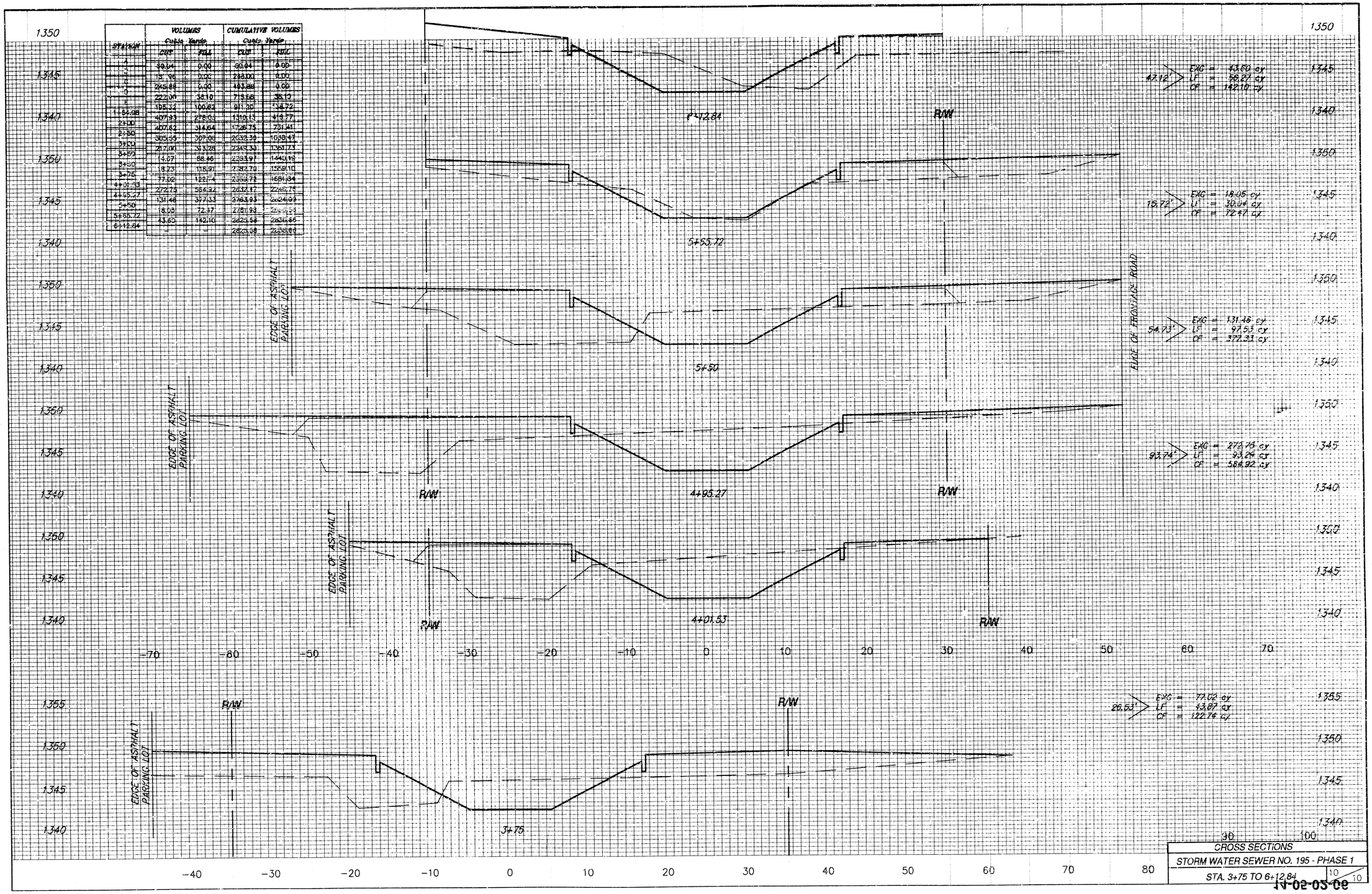


CROSS SECTIONS
STORM WATER SEWER NO. 195 - PHASE 1
STA. A TO F
8 / 10



CROSS SECTIONS
STORM WATER SEWER NO. 195 - PHASE 1
STA. 1+54.98 TO 3+60
9/10

STATION	VOLUMES Cubic Yards CUT	VOLUMES Cubic Yards FILL	CUMULATIVE VOLUMES Cubic Yards CUT	CUMULATIVE VOLUMES Cubic Yards FILL
3+75	30.04	0.00	30.04	0.00
3+88	15.96	0.00	46.00	0.00
4+00	245.88	0.00	291.88	0.00
4+12.84	222.00	38.10	513.88	38.10
4+25	185.32	100.82	699.20	138.92
4+50	407.93	278.03	1107.13	416.95
4+75	407.62	314.64	1514.75	731.59
4+95.27	305.95	309.00	1820.70	1040.59
5+00	217.00	33.28	2037.70	1073.87
5+25	14.67	88.46	2052.37	1162.33
5+50	18.73	118.91	2071.10	1281.24
5+75	37.02	122.74	2108.12	1403.98
5+90.72	272.73	584.92	2380.85	1988.90
6+05.27	131.46	97.53	2512.31	2086.43
6+50	8.05	72.47	2520.36	2158.90
6+75	43.80	142.10	2564.16	2301.00
6+12.84			2564.16	2301.00



CROSS SECTIONS
STORM WATER SEWER NO. 195 - PHASE 1
STA. 3+75 TO 6+12.84

14-02-05 08