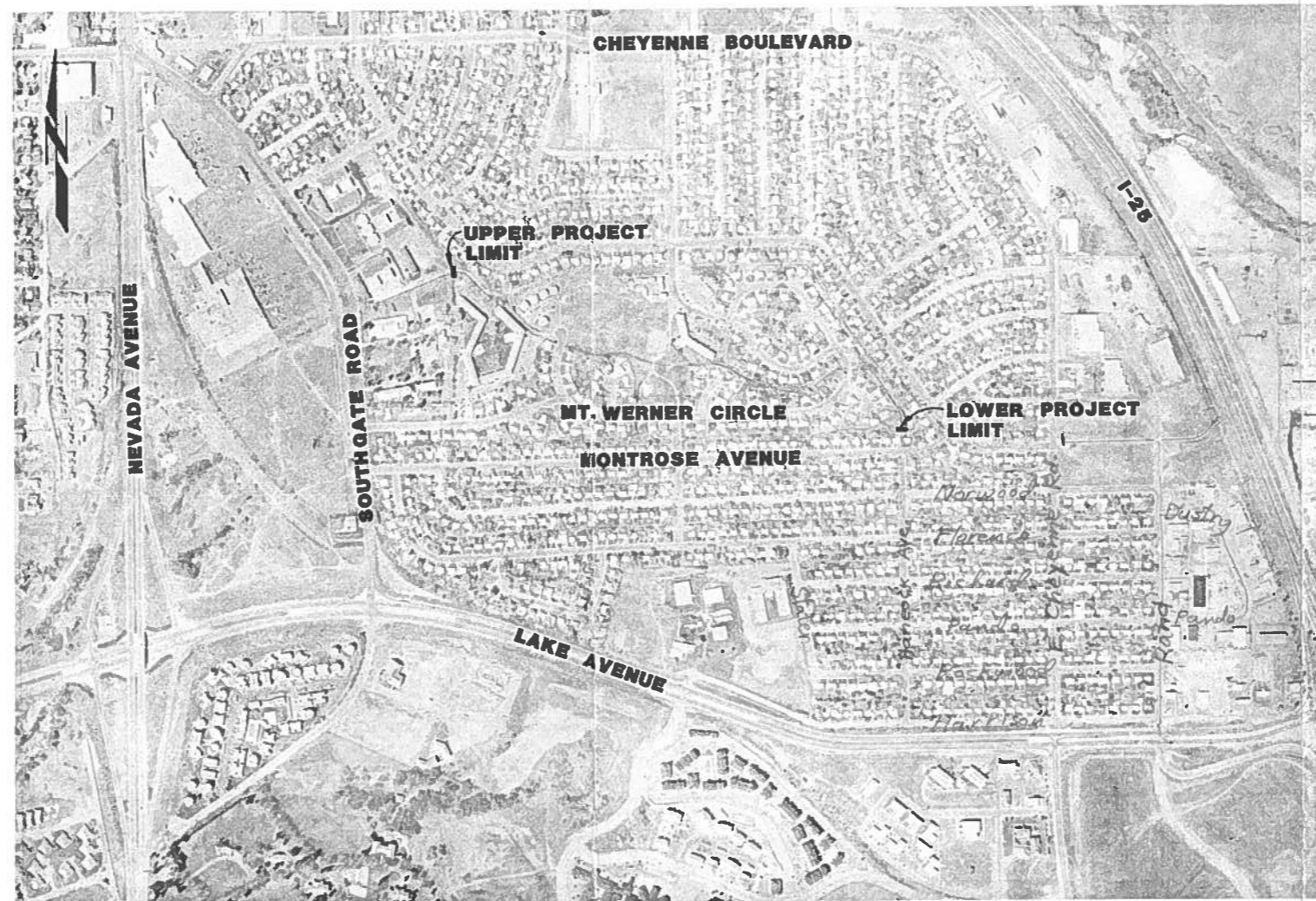


APPENDIX A PARK MEADOWS/ CHEYENNE CREEK (SPRING RUN) DRAINAGE IMPROVEMENTS PRELIMINARY DESIGN



INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	ALTERNATIVE 1-A, STA. 19+20 TO STA. 23+00
3	ALTERNATIVE 2-A, STA. 23+00 TO STA. 27+00
4	ALTERNATIVE 2-A, STA. 27+00 TO STA. 33+00
5	ALTERNATIVE 2-A, STA. 33+00 TO STA. 34+80
6	ALTERNATIVES 2-B & 2-C, STA. 23+00 TO STA. 27+00
7	ALTERNATIVES 2-B & 2-C, STA. 27+00 TO STA. 33+00
8	ALTERNATIVES 2-B & 2-C, STA. 33+00 TO STA. 34+80
9	ALTERNATIVES 3-A & 3-B, STA. 34+80 TO STA. 39+00
10	ALTERNATIVES 3-A & 3-B, STA. 39+00 TO STA. 41+92
11	ALTERNATIVE 4-A, STA. 41+92 TO STA. 45+00
12	ALTERNATIVE 4-A, STA. 45+00 TO STA. 48+10
13	ALTERNATIVE 4-B, STA. 41+92 TO STA. 45+00
14	ALTERNATIVE 4-R, STA. 45+00 TO STA. 48+10
15	ALTERNATIVE 5-A, STA. 48+10 TO STA. 50+00
16	REACH 3 - MASTER PLAN DEVELOPMENT

CITY OF
COLORADO SPRINGS

SPRING RUN TRIBUTARY
TO FOUNTAIN CREEK



CONSULTING
ENGINEERS



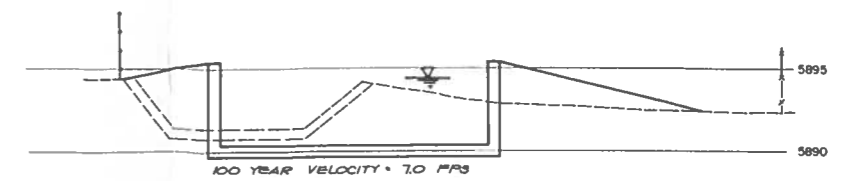
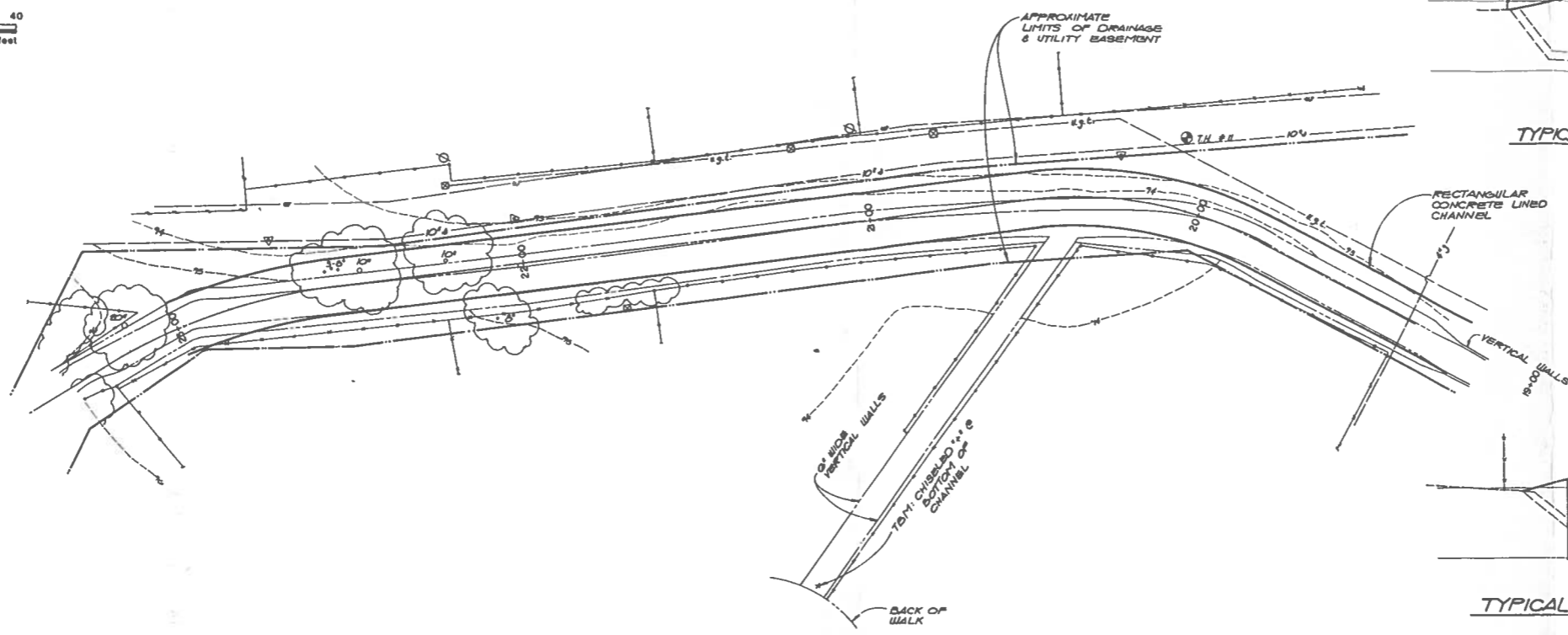
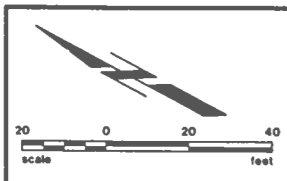
SELLARDS & GRIGG, INC.

LAKWOOD, COLORADO

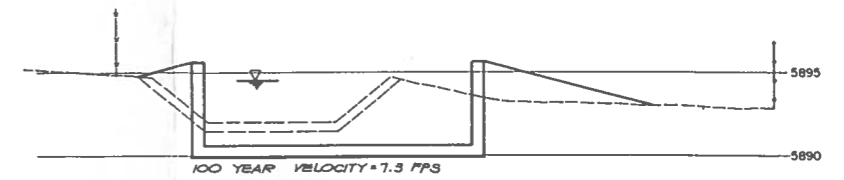
S & G JOB NO. 85433

SHEET 1 OF 16

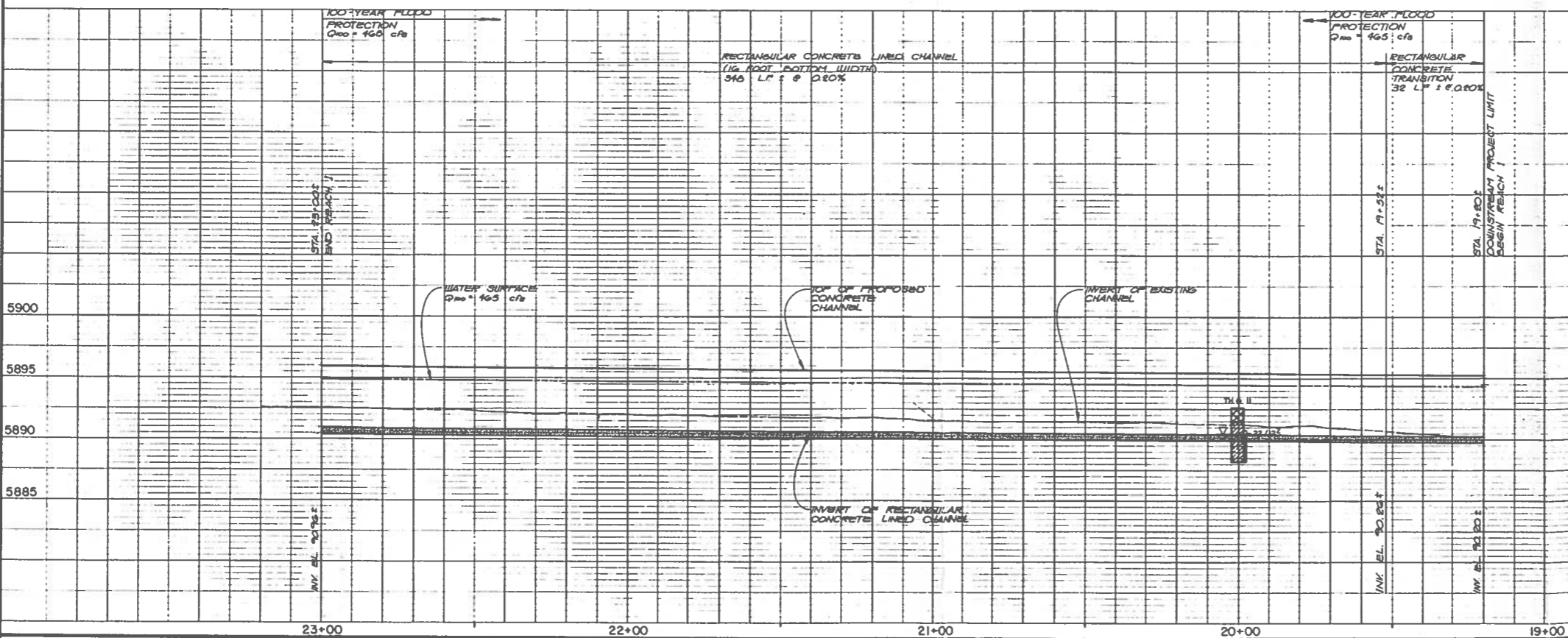




TYPICAL IMPROVED CROSS SECTION
STA. 20+25
SCALE 1"=5'



TYPICAL IMPROVED CROSS SECTION
STA. 22+00
SCALE 1"=5'



- LEGEND**
- PROPOSED CHANNEL BOTTOM (PROFILE)
 - PROPOSED CHANNEL
 - EXISTING UTILITY EASEMENT
 - EXISTING UTILITY
 - EXISTING FEATURES
 - EXISTING GROUND (PROFILE)
 - 100 YR. WATER SURFACE
 - EXISTING GROUND (PLAN)
 - EXISTING WOOD FENCE
 - EXISTING CHAIN LINK FENCE
 - EXISTING WIRE FENCE
 - WATER SURFACE ELEVATION
 - M.H. ○ EXISTING MANHOLE
 - EXISTING VALVE
 - EXISTING FIRE HYDRANT
 - EXISTING LIGHT POLE
 - EXISTING POWER POLE
 - T.H. ⊙ EXISTING TEST HOLE
 - EXISTING DOWN GUY
 - TELEPHONE RISER
 - CABLE TELEVISION BOX
 - GAS METER
 - SURVEY SET UP POINT
 - EXISTING STRUCTURE
 - EXISTING LANDSCAPE

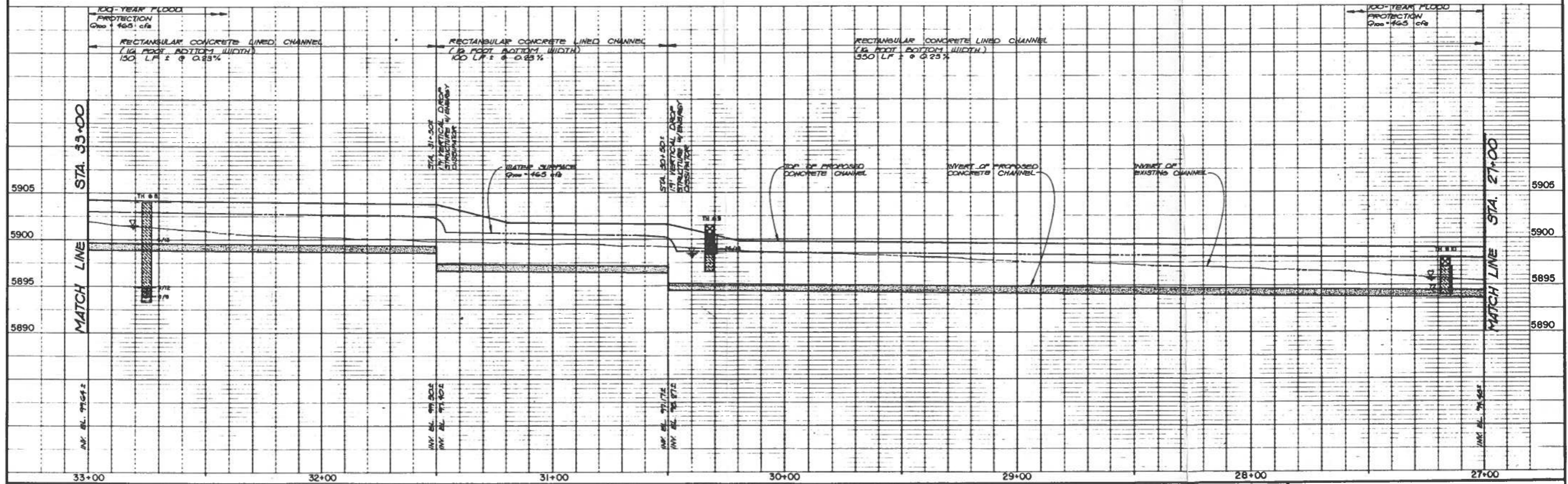
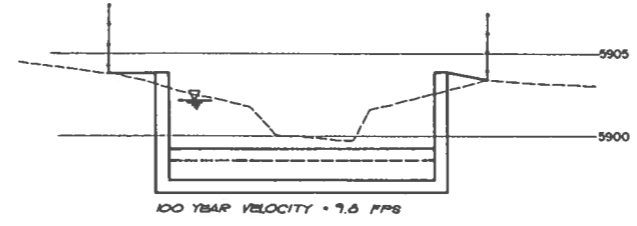
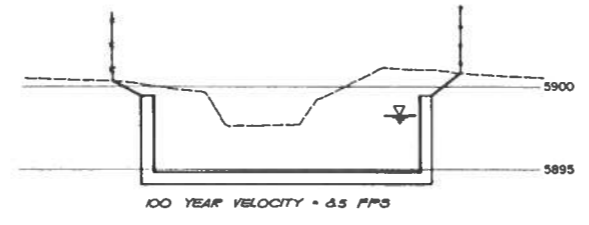
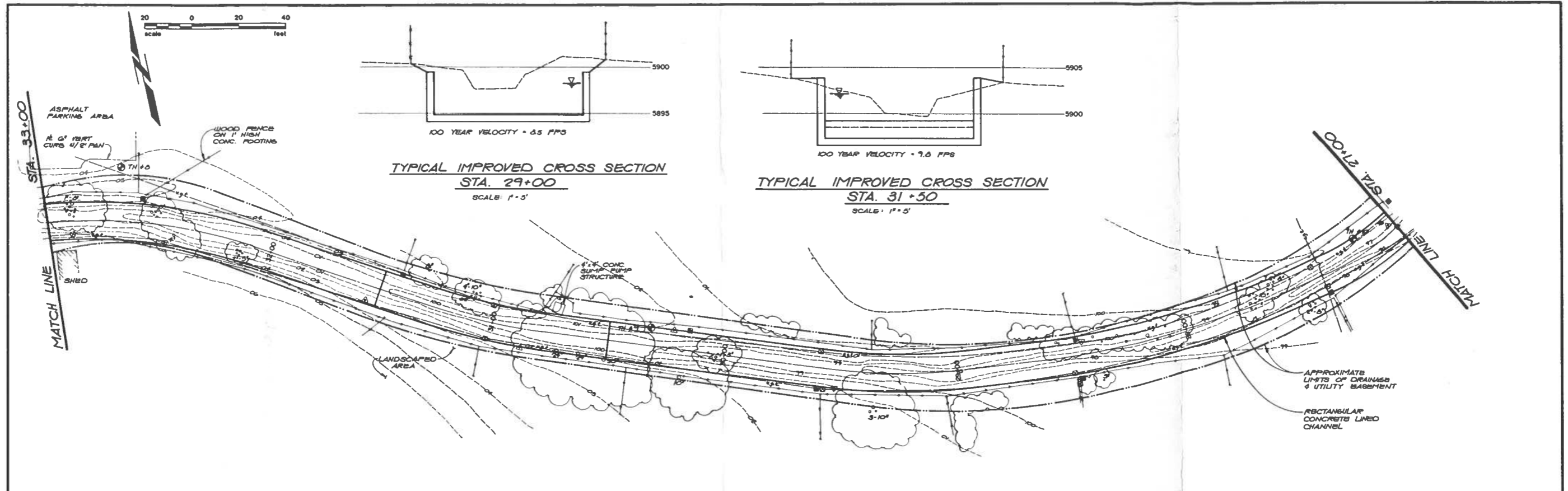
SEE SHEET 3 FOR GENERAL NOTES

NO.	REVISIONS	DATE	BY



SELLARDS & GRIGG, Inc.
CONSULTING ENGINEERS
LAKWOOD, COLORADO

DESIGNED BY CAM	CITY OF COLORADO SPRINGS	DRAWN BY 85433
CHECKED BY JAF	PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)	DATE AS NOTED
DATE OCT. 1985	ALTERNATIVE 1-A STA. 19+20 TO STA. 23+00	SHEET NO. 2 OF 16



NO.	REVISIONS	DATE	BY

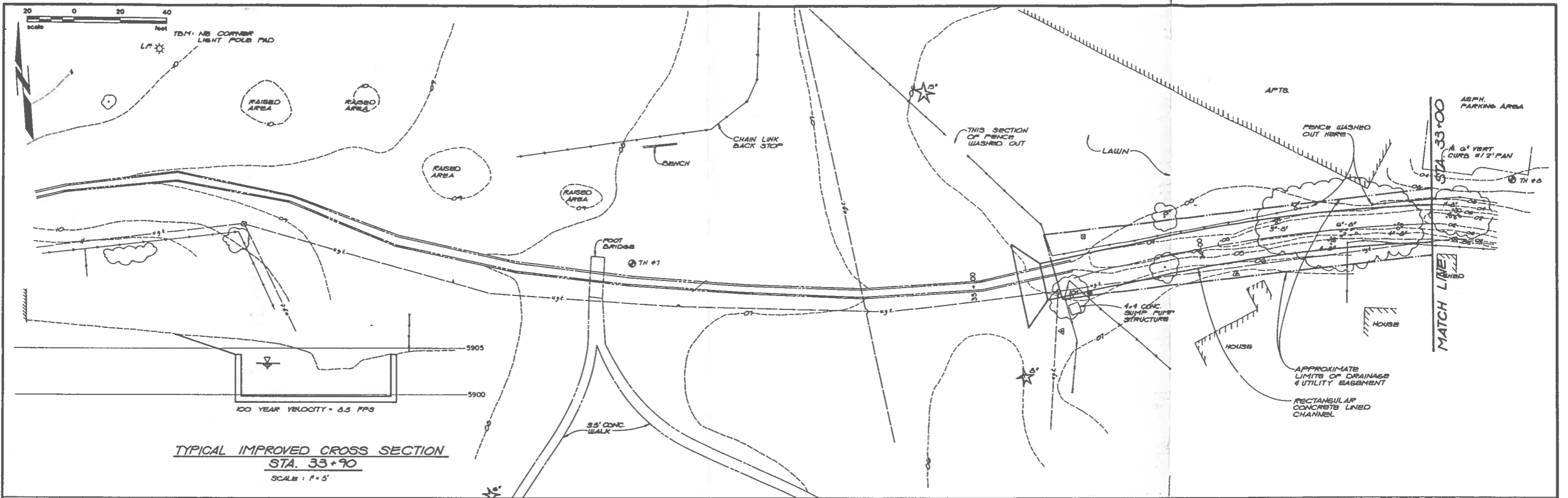
SELLARDS & GRIGG, Inc.
CONSULTING ENGINEERS
LAKEWOOD, COLORADO

REGISTERED PROFESSIONAL ENGINEER
17191

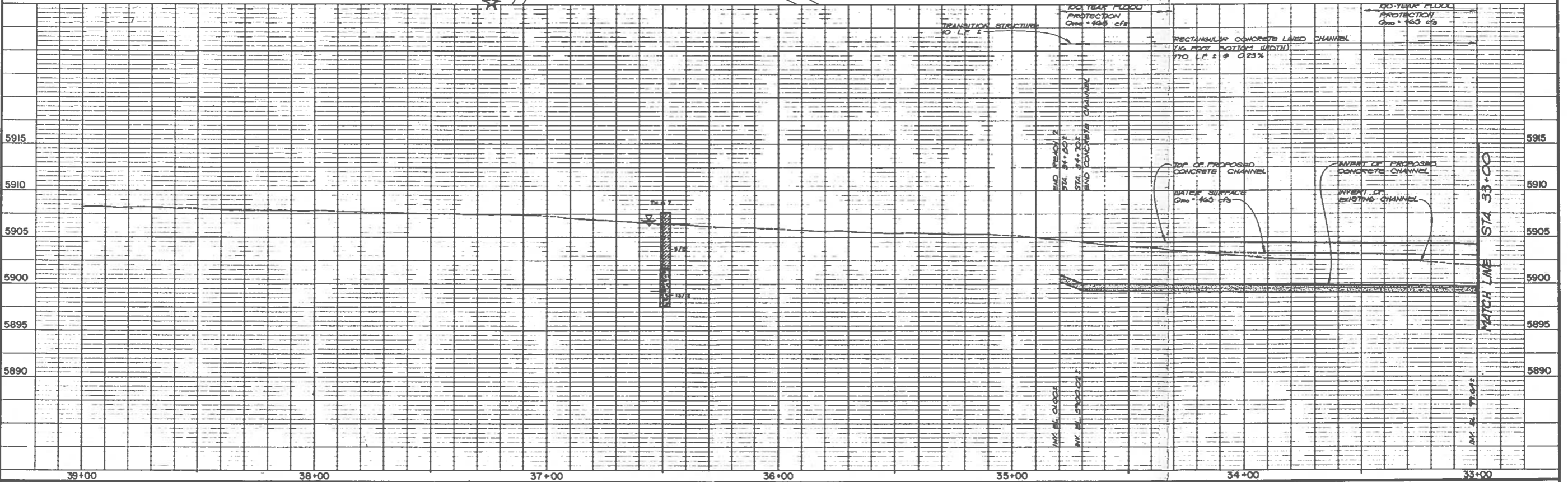
DESIGNED BY: TGF
CHECKED BY: JAF
DATE: OCT. 1985

CITY OF COLORADO SPRINGS
PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
ALTERNATIVE 2-A
STA. 27+00 TO STA. 33+00

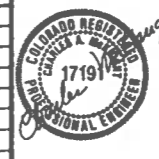
100' x 16" 85433
SCALE AS NOTED
SHEET NO. 4 OF 16



TYPICAL IMPROVED CROSS SECTION
 STA. 33+90
 SCALE: 1" = 5'



NO.	REVISIONS	DATE	BY

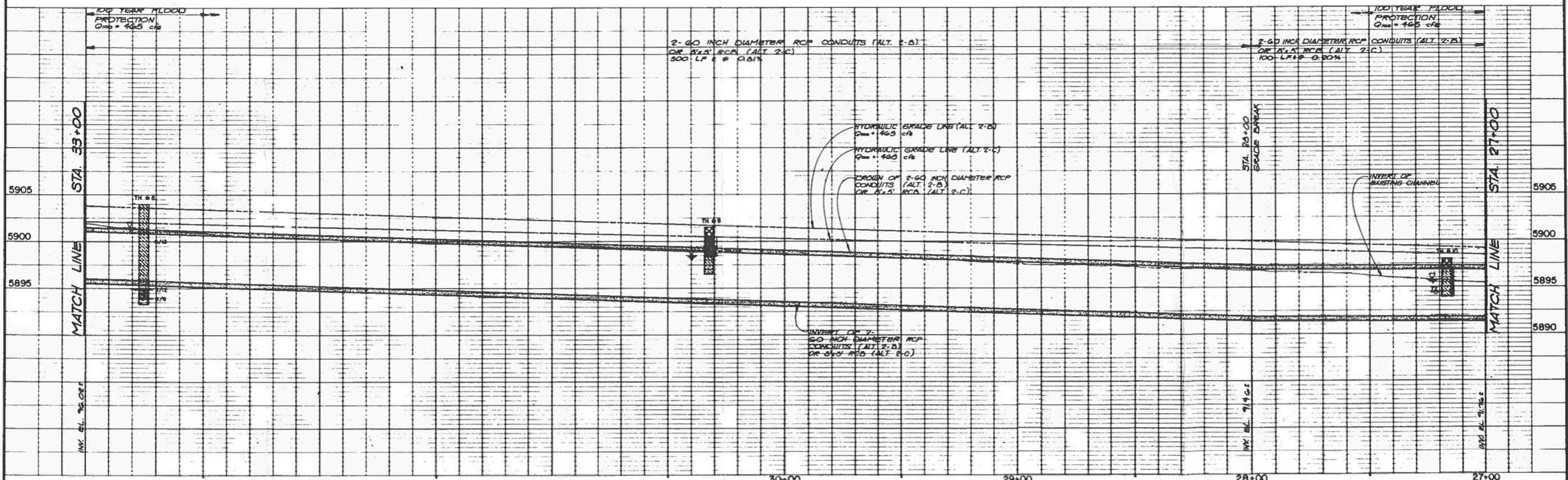
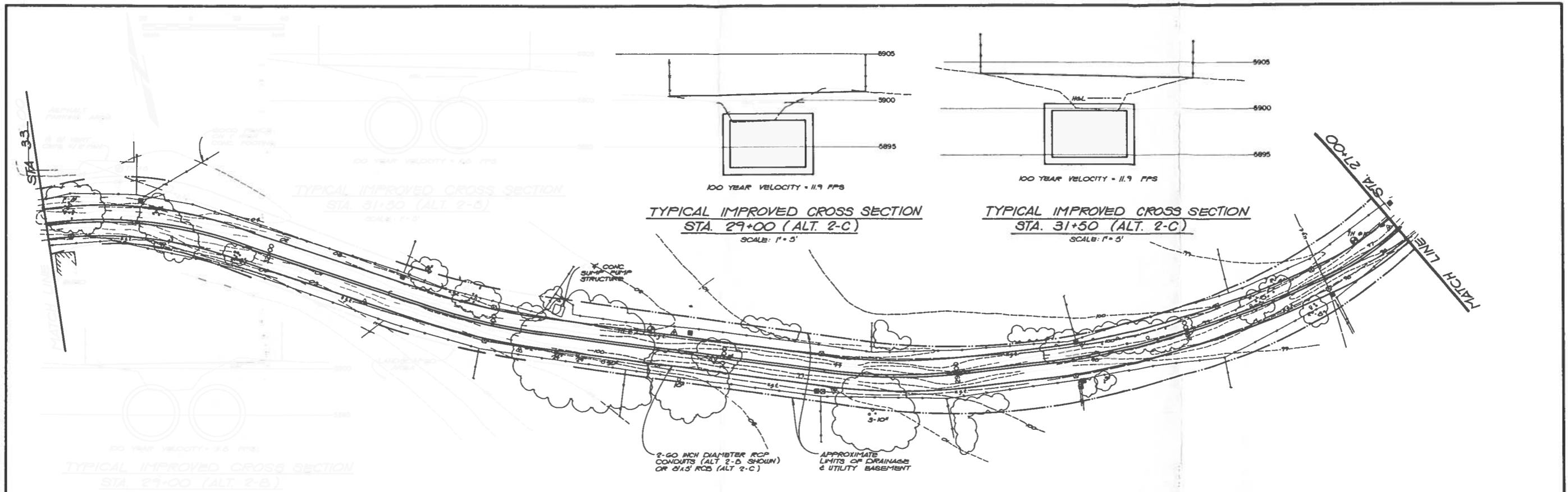


CONSULTING ENGINEERS
SELLARDS & GRIGG, Inc.
 LAKEWOOD, COLORADO

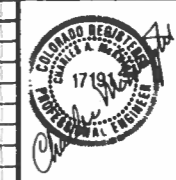
DESIGNED BY: TGF
 DRAWN BY: JAF
 CHECKED BY: CAM
 DATE: OCT. 1985

CITY OF COLORADO SPRINGS
 PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
 ALTERNATIVE 2-A
 STA. 33+00 TO STA. 34+80

ISSUED BY: 85433
 AS NOTED
 5 OF 16



NO.	REVISIONS	DATE	BY

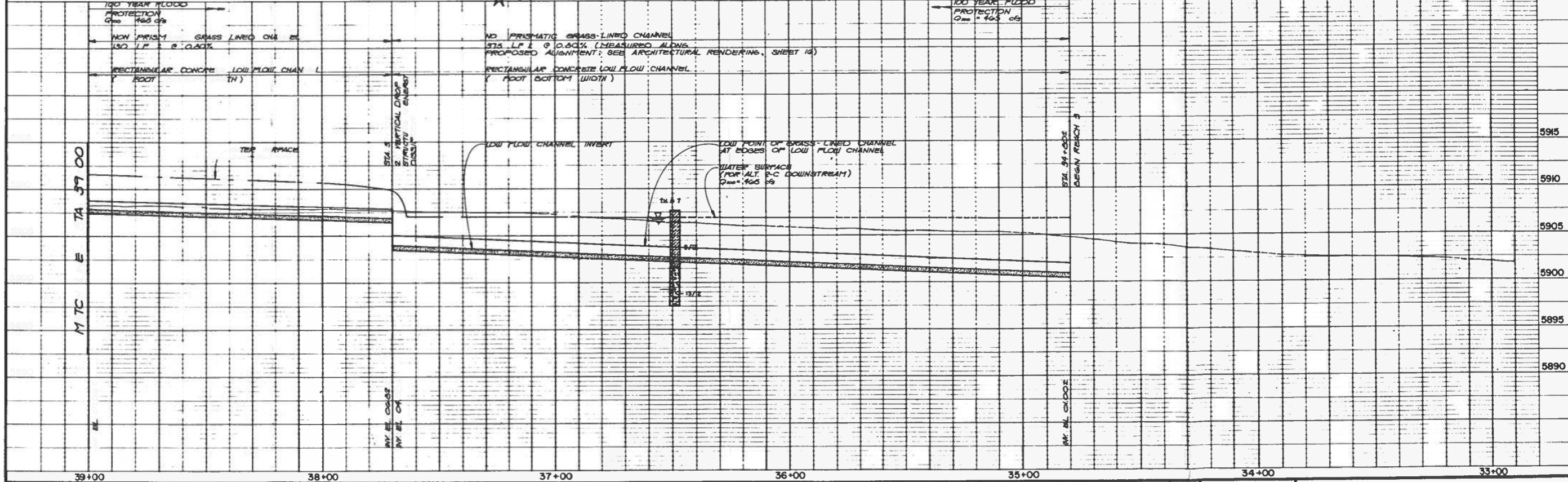
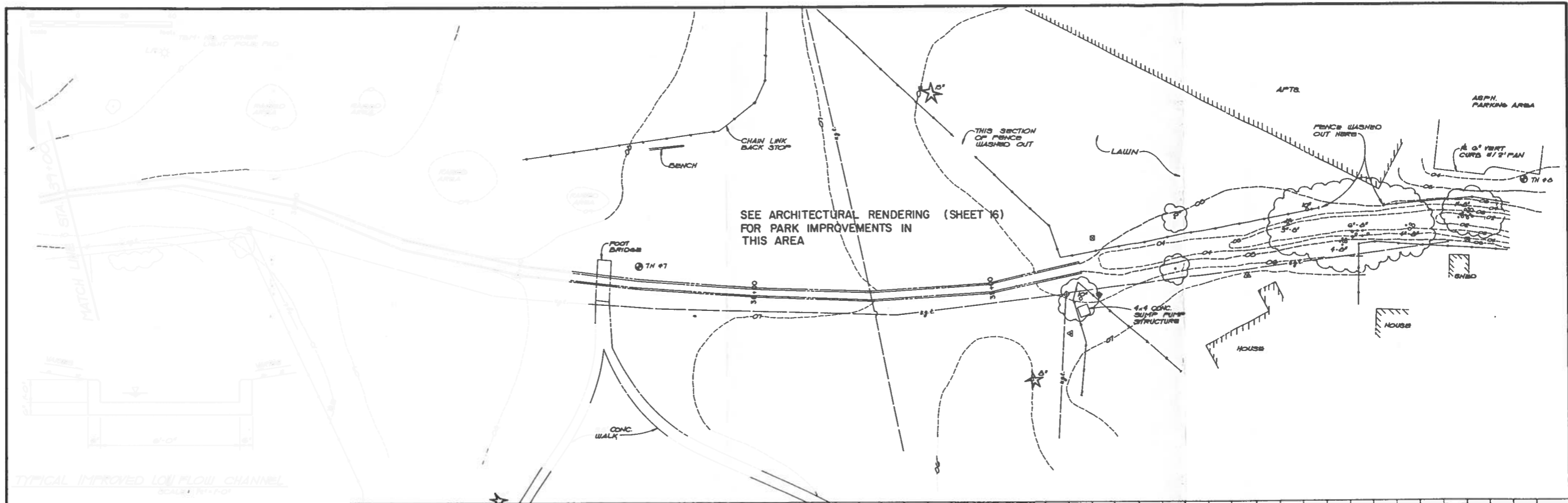


BELLARDS & GRIGG, Inc.
 CONSULTING ENGINEERS
 LAKEWOOD, COLORADO

DESIGNED BY: TGF
 CHECKED BY: JAF
 DRAWN BY: CAM
 DATE: OCT. 1985

CITY OF COLORADO SPRINGS
 PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
 ALTERNATIVES 2-B & 2-C
 STA. 27+00 TO STA. 33+00

PROJECT NO. 85433
 SCALE AS NOTED
 SHEET 7 OF 16



NO.	REVISIONS	DATE	BY

CONSULTING ENGINEERS

BELLARDS & GRIGG, Inc.

LAS VEGAS, COLORADO

DESIGNED BY: CAM

DRAWN BY: JAF

CHECKED BY: TGF

DATE: OCT. 1985

CITY OF COLORADO SPRINGS

PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)

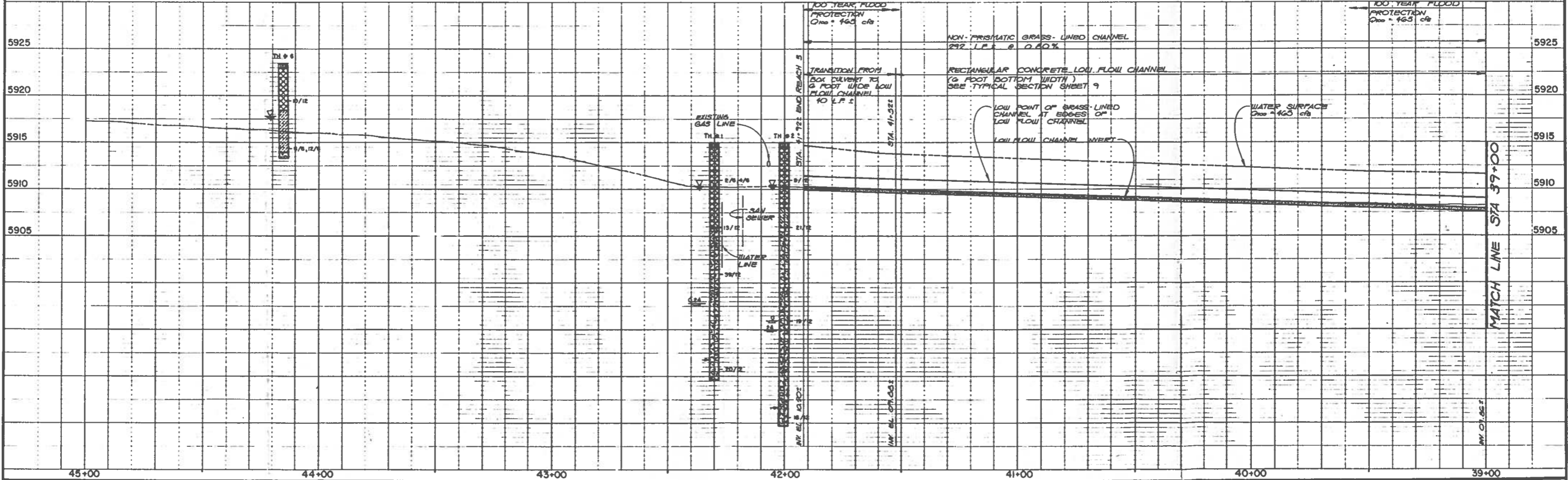
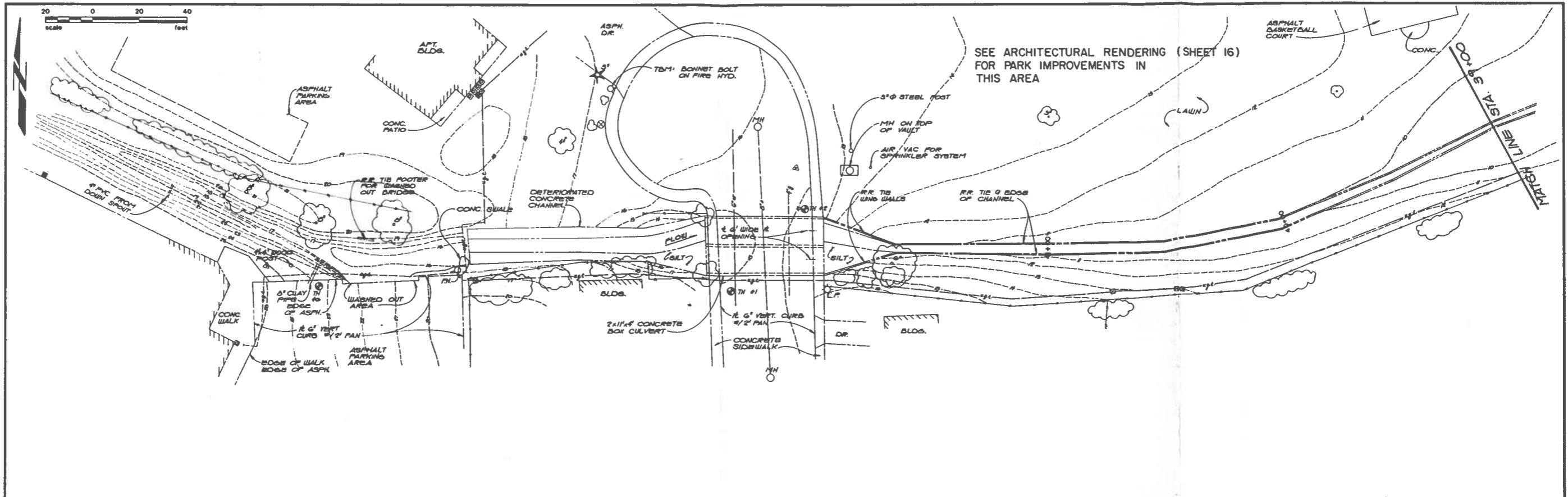
ALTERNATIVES 3-A & 3-B

STA. 34+80 TO STA. 39+00

85433

AS NOTED

9 OF 16



NO.	REVISIONS	DATE	BY

CONSULTING ENGINEERS

SELLARDS & GRIGG, Inc.

LAKESWOOD, COLORADO

DESIGNED BY: CAM

DRAWN BY: JAF

CHECKED BY: TGF

DATE: OCT. 1985

CITY OF COLORADO SPRINGS

PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)

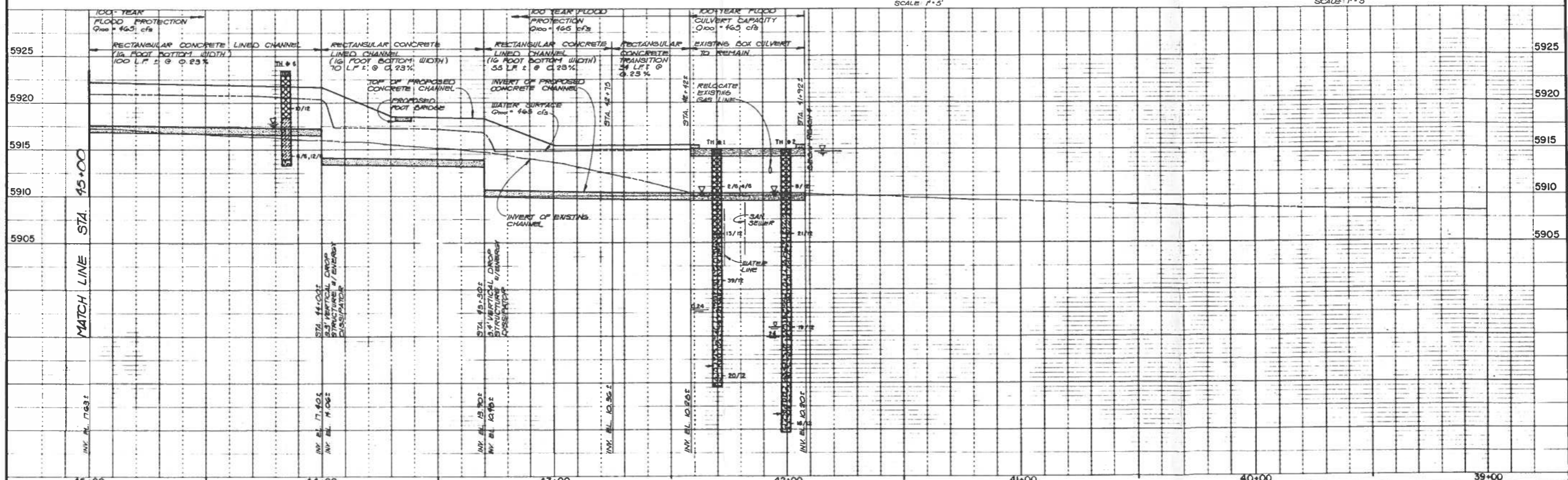
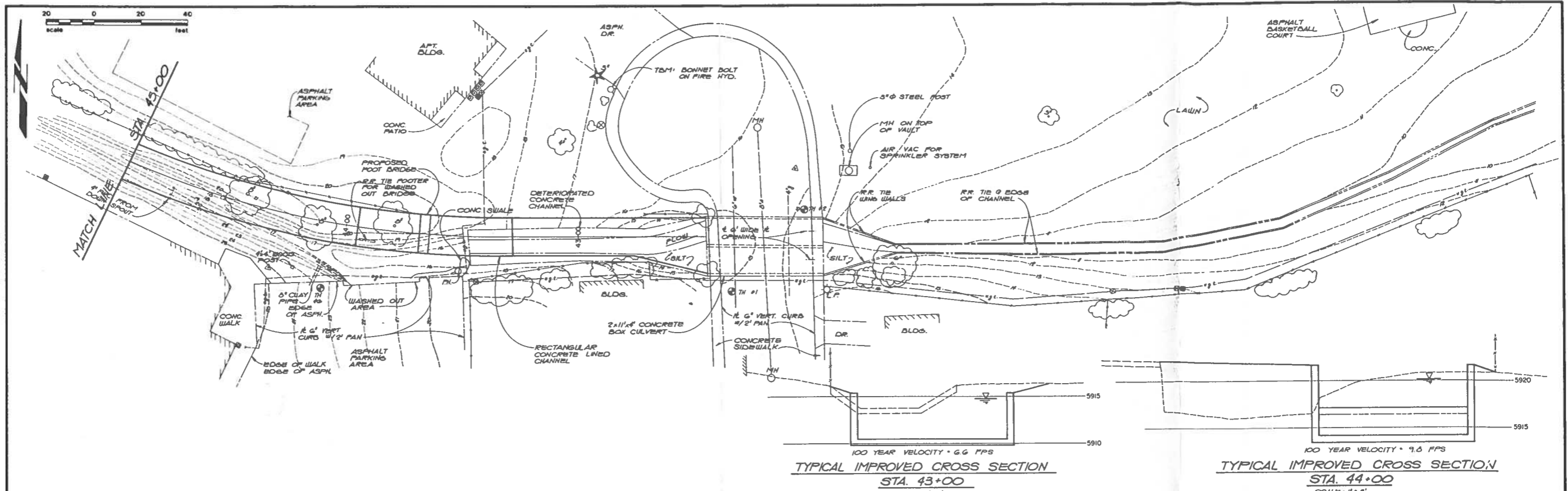
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STA. 39+00 TO STA. 41+92

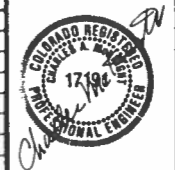
PROJECT NO: 85433

SCALE: AS NOTED

SHEET NO: 10 OF 16



NO.	REVISIONS	DATE	BY

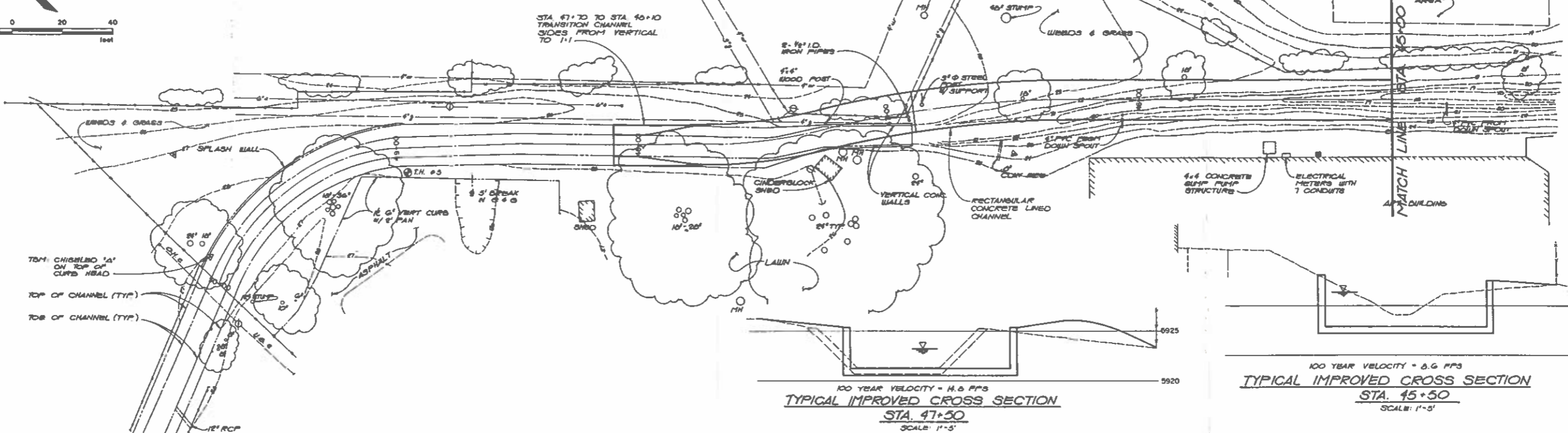
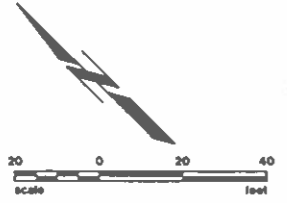


SELLARDS & GRIGG, Inc.
 CONSULTING ENGINEERS
 LAKEWOOD, COLORADO

DESIGNED BY: TGF
 DRAWN BY: JAF
 CHECKED BY: CAM
 DATE: OCT. 1985

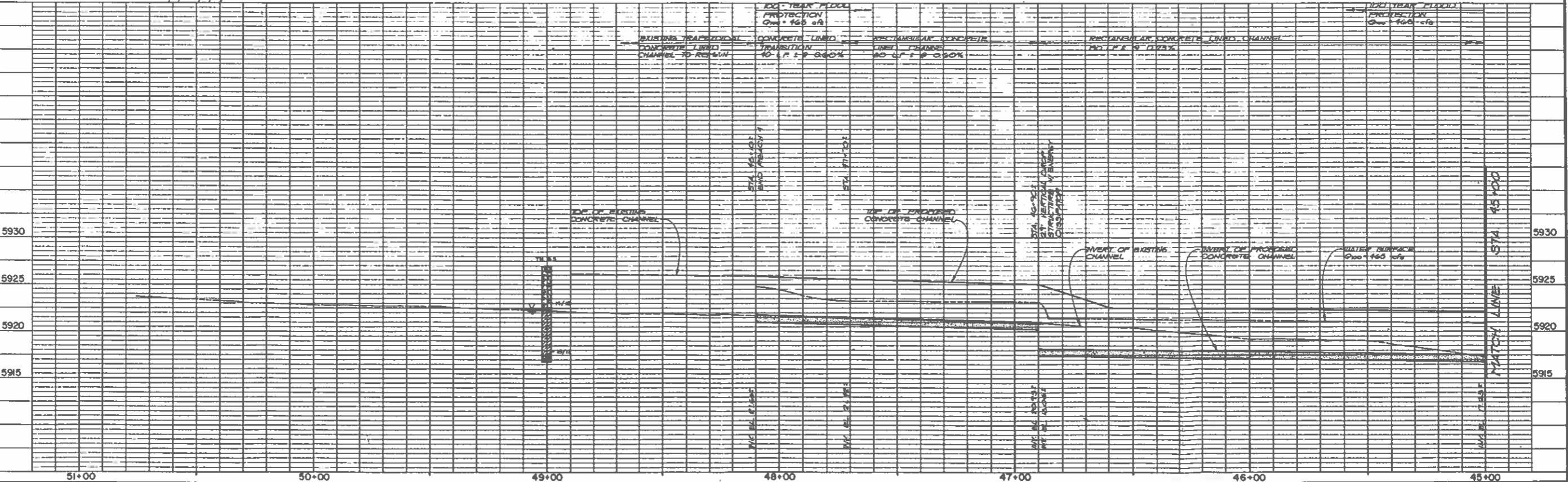
CITY OF COLORADO SPRINGS
 PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
 ALTERNATIVE 4-A
 STA. 41+92 TO STA. 45+00

SCALE: AS NOTED
 SHEET NO. 11 OF 16

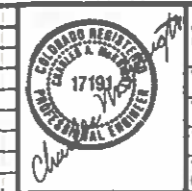


100 YEAR VELOCITY = 8.6 FPS
TYPICAL IMPROVED CROSS SECTION
STA. 47+50
 SCALE: 1"=3'

100 YEAR VELOCITY = 8.6 FPS
TYPICAL IMPROVED CROSS SECTION
STA. 45+50
 SCALE: 1"=3'



NO.	REVISIONS	DATE	BY

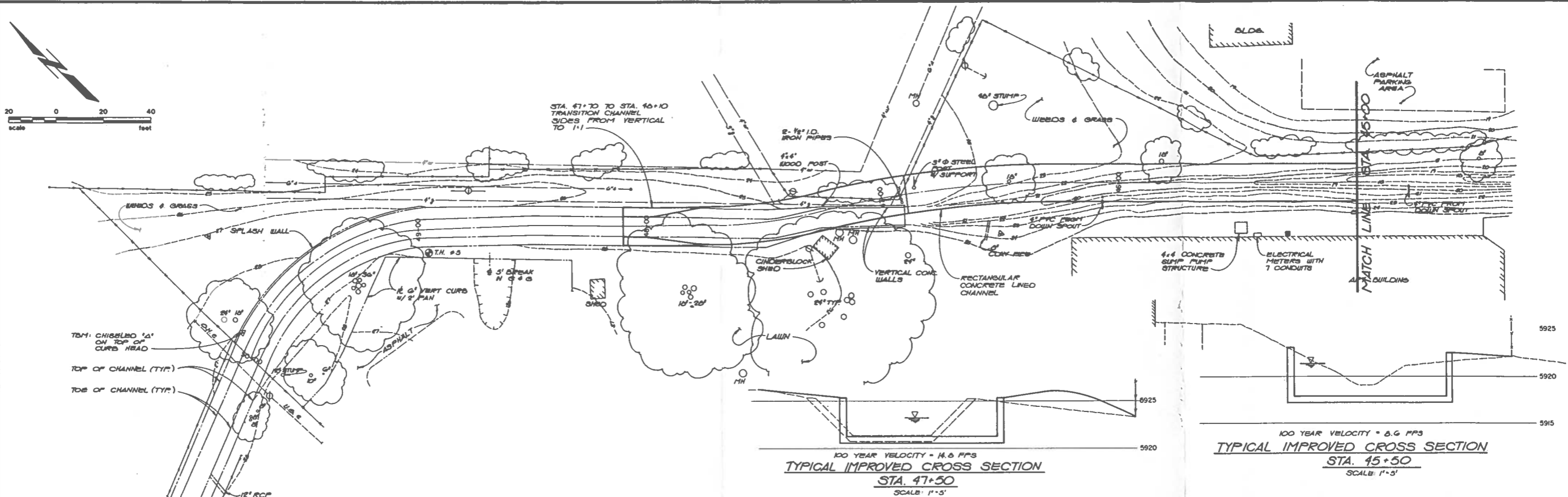


BELLARD & GRIGG, Inc.
 CONSULTING ENGINEERS
 LEEWOOD, COLORADO

DESIGNED BY: TGF
 CHECKED BY: JAF
 DRAWN BY: CAM
 DATE: OCT. 1985

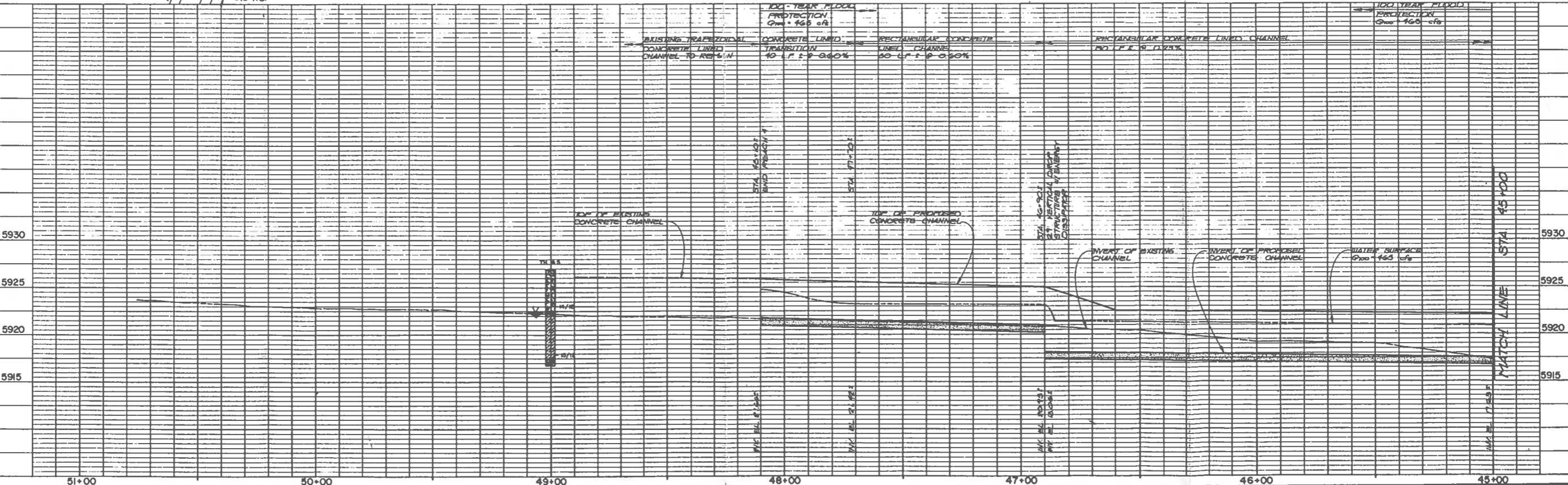
CITY OF COLORADO SPRINGS
 PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
 ALTERNATIVE 4-A
 STA. 45+00 TO STA. 48+10

100' JOB NO: 85433
 SHEET NO: AS NOTED
 OF 12 OF 16



100 YEAR VELOCITY = 14.6 FPS
TYPICAL IMPROVED CROSS SECTION
 STA. 47+50
 SCALE: 1"=3'

100 YEAR VELOCITY = 8.6 FPS
TYPICAL IMPROVED CROSS SECTION
 STA. 45+50
 SCALE: 1"=3'



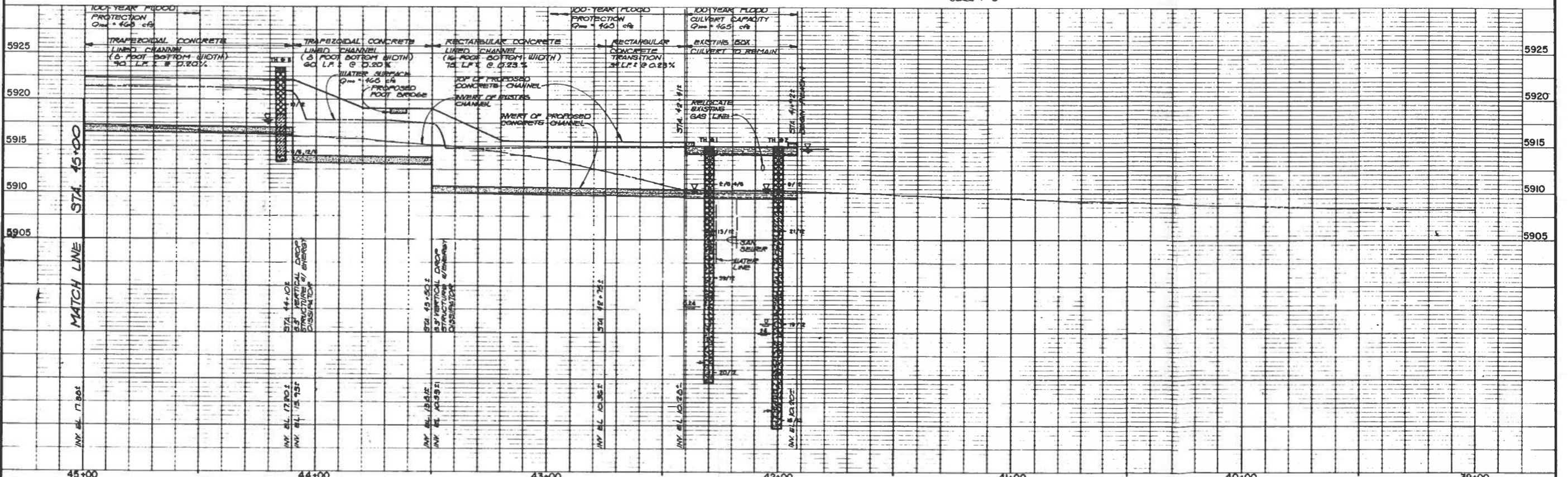
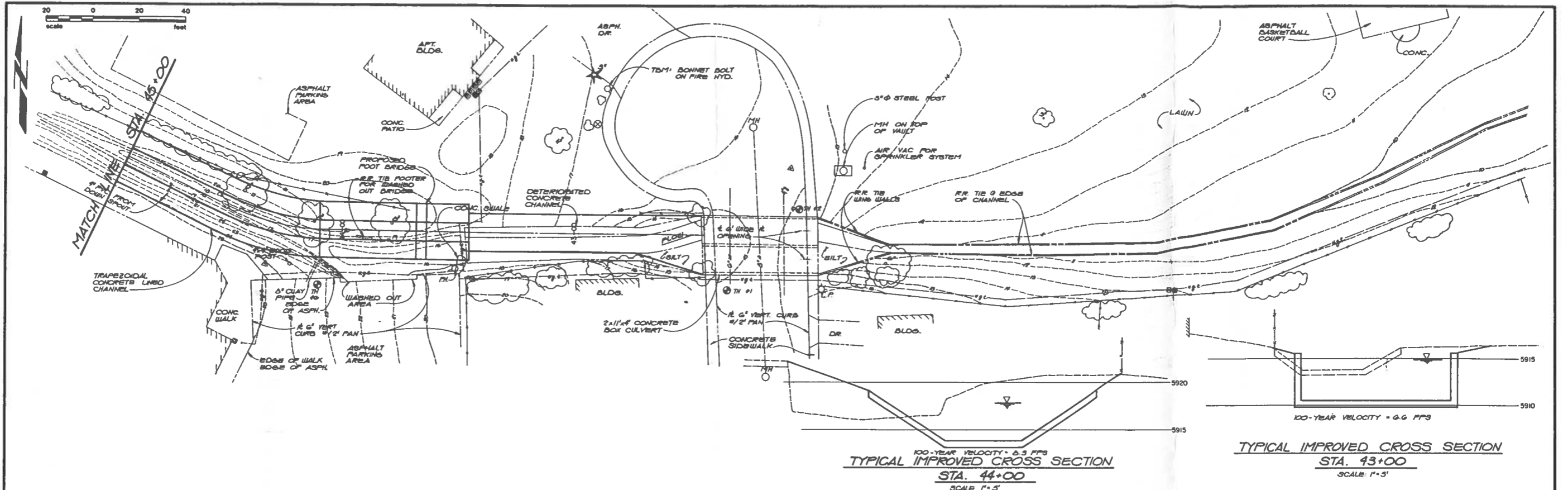
NO.	REVISIONS	DATE	BY

CONSULTING ENGINEERS
SELLARDS & GRIGG, Inc.
 LAKEWOOD, COLORADO

DESIGNED BY: TGF
 DRAWN BY: JAF
 CHECKED BY: CAM
 DATE: OCT. 1985

CITY OF COLORADO SPRINGS
 (SPRING RUN)
 ALTERNATIVE 4-A
 STA. 45+00 TO STA. 48+10

PROJECT NO. 85433
 SHEET AS NOTED
 12 OF 16



NO.	REVISIONS	DATE	BY



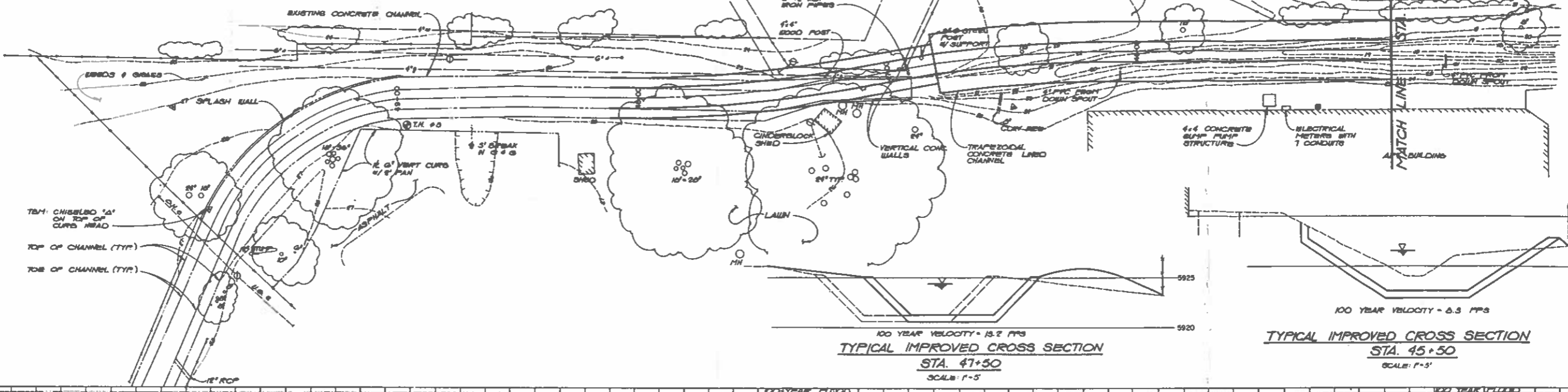
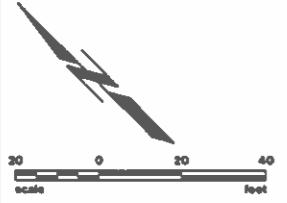
SELLARDS & GRIGG, Inc.
 CONSULTING ENGINEERS
 LAKEWOOD, COLORADO

PROJECT: CITY OF COLORADO SPRINGS
 85433

DESIGNED BY: TGF
 DRAWN BY: JAF
 CHECKED BY: CAM
 DATE: OCT. 1985

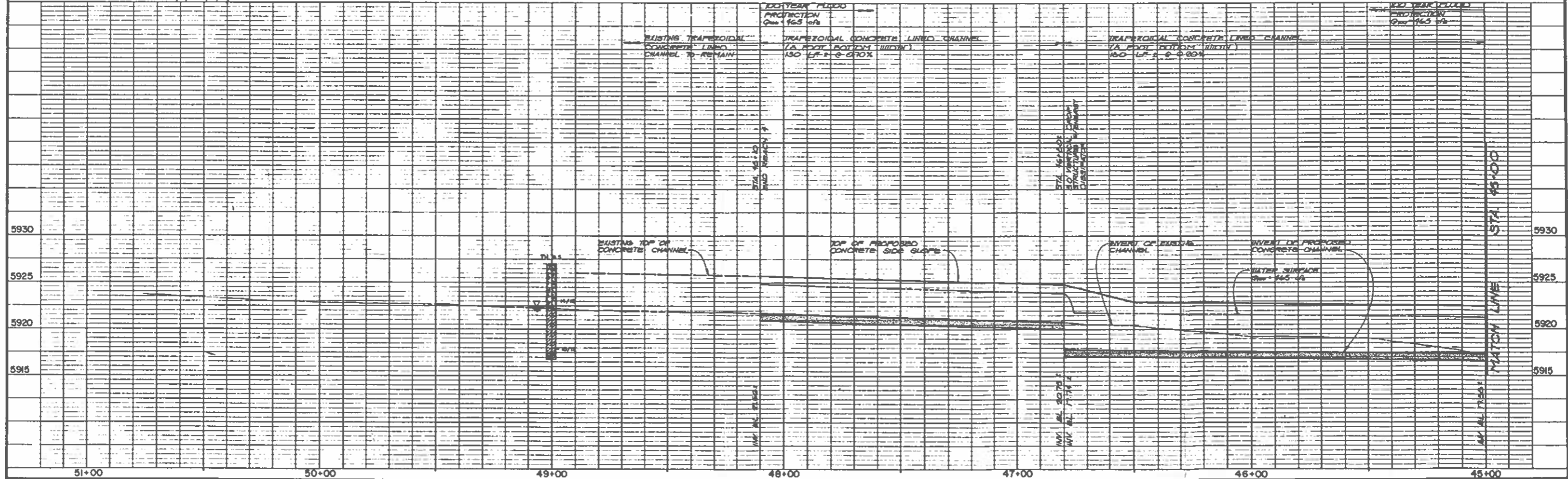
PROJECT: PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
 ALTERNATIVE 4-B
 STA. 41+92 TO STA. 45+00

SCALE: AS NOTED
 SHEET NO. 13 OF 16

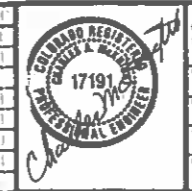


TYPICAL IMPROVED CROSS SECTION
STA. 47+50
SCALE: 1"=5'

TYPICAL IMPROVED CROSS SECTION
STA. 45+50
SCALE: 1"=5'



NO.	REVISIONS	DATE	BY

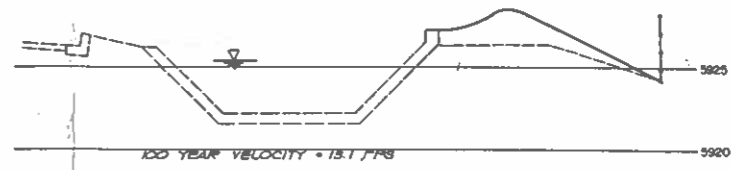
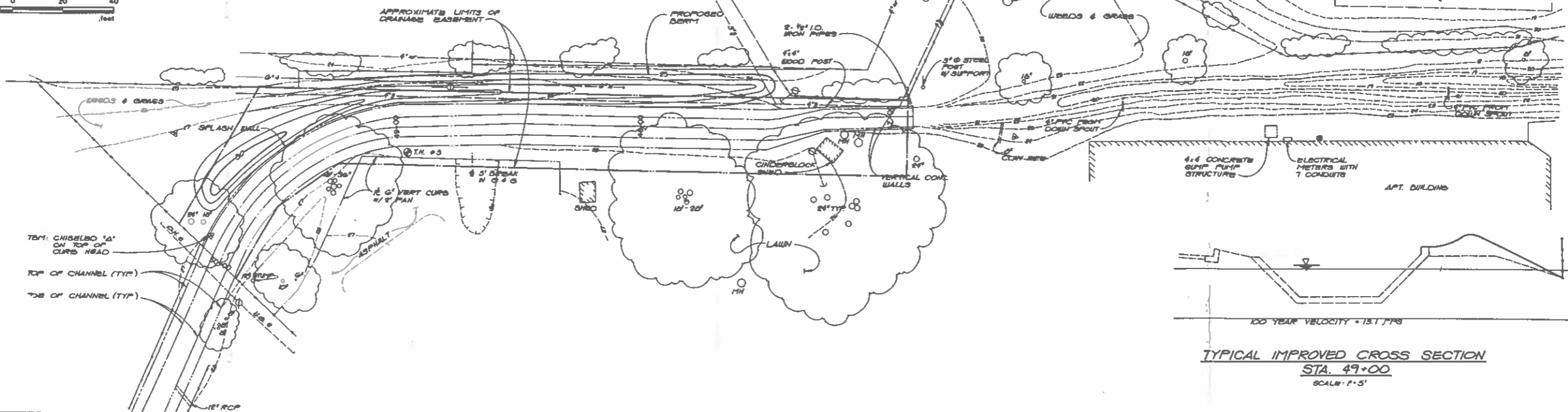
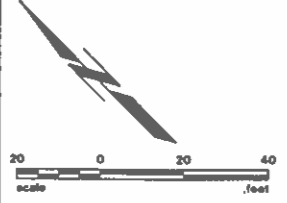


SELLARDS & GREGG, Inc.
CONSULTING ENGINEERS
LITTLETON, COLORADO

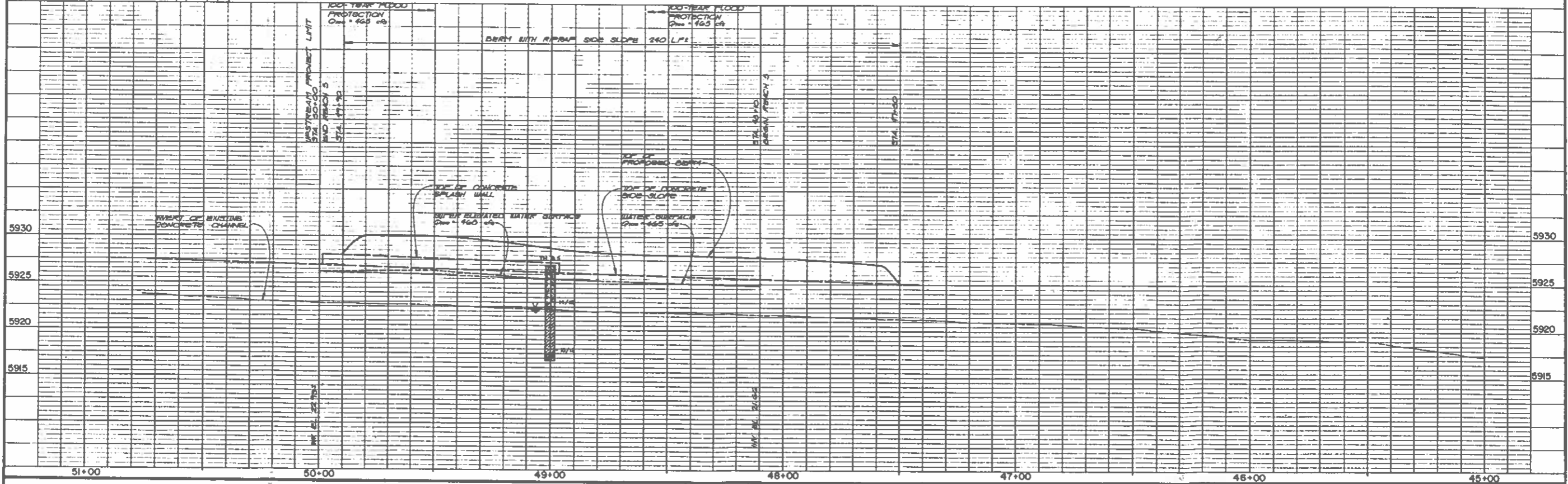
PROJECT NO. 85433
CITY OF COLORADO SPRINGS
PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
ALTERNATIVE 4-B
STA. 45+00 TO STA. 48+10

DATE: OCT. 1985
DRAWN BY: CAM
CHECKED BY: JAF
DESIGNED BY: TGF

SCALE AS NOTED
14 OF 16



TYPICAL IMPROVED CROSS SECTION
STA. 49+00
SCALE: 1" = 5'



NO.	REVISIONS	DATE	BY

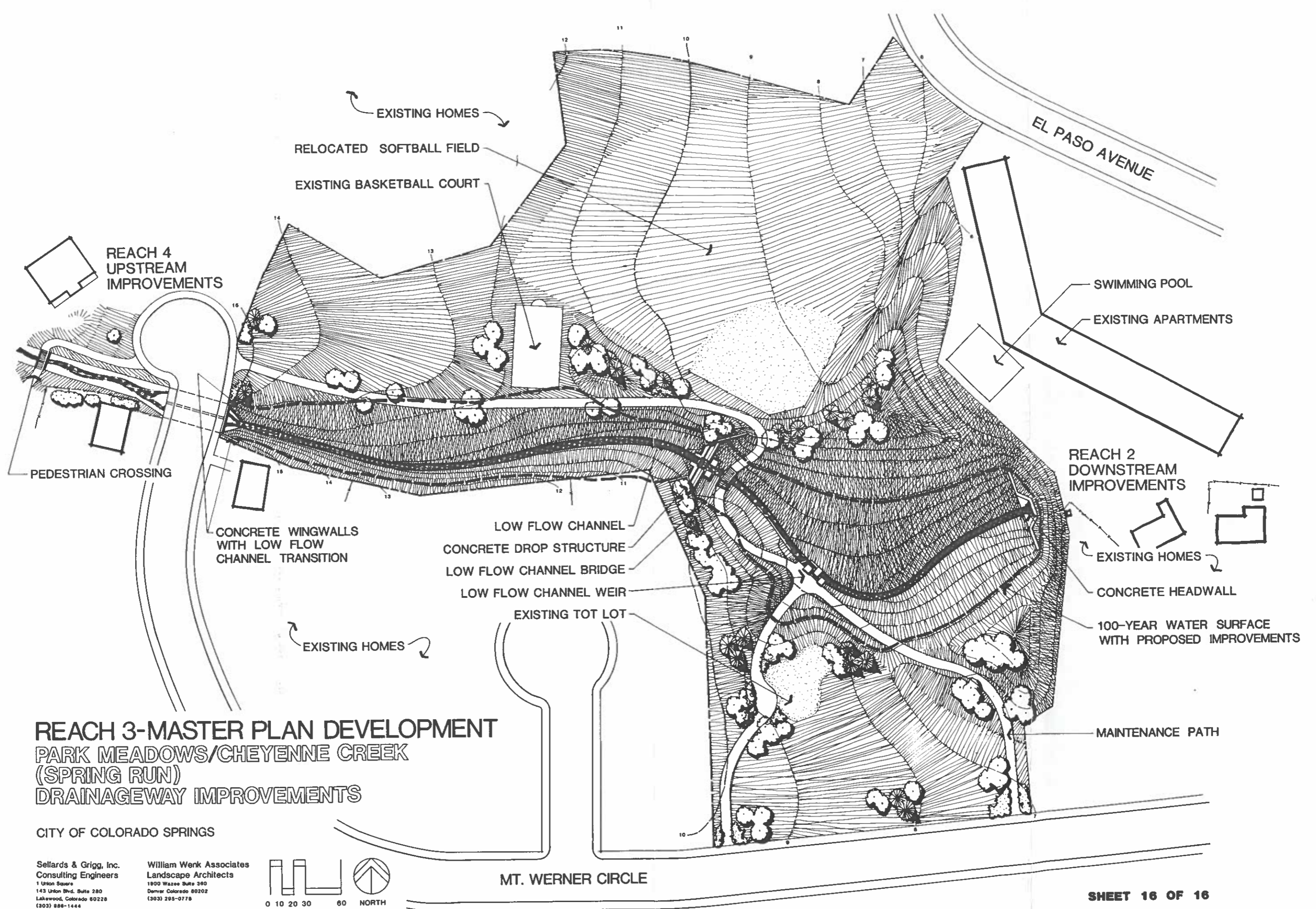


CONSULTING ENGINEERS
BELLARDS & GRIGG, Inc.
 LAKEWOOD, COLORADO

PROJECT BY: TGF
 DRAWN BY: JAF
 CHECKED BY: CAM
 DATE: OCT. 1985

CITY OF COLORADO SPRINGS
 PARK MEADOWS / CHEYENNE CREEK (SPRING RUN)
 ALTERNATIVE 5-A
 STA. 48+10 TO STA. 50+00

SHEET NO. 15 OF 16

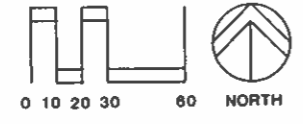


REACH 3-MASTER PLAN DEVELOPMENT
PARK MEADOWS/CHEYENNE CREEK
(SPRING RUN)
DRAINAGEWAY IMPROVEMENTS

CITY OF COLORADO SPRINGS

Sellards & Grigg, Inc.
 Consulting Engineers
 1 Union Square
 143 Union Blvd, Suite 280
 Lakewood, Colorado 80228
 (303) 986-1444

William Wenk Associates
 Landscape Architects
 1900 Wazee Suite 380
 Denver Colorado 80202
 (303) 295-0776



MT. WERNER CIRCLE