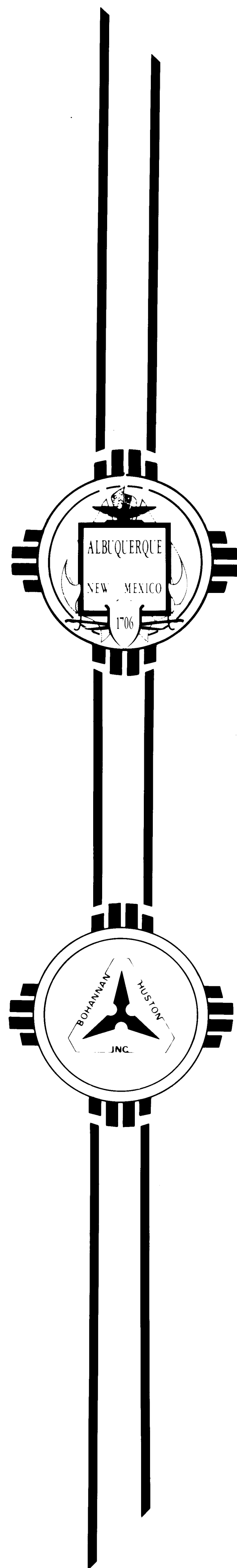


COPPER CHANNEL DRAINAGE IMPROVEMENTS AUGUST, 1980

REVISED FOR ADDENDUM NO.1

CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO



INDEX

SHEET NO.	DESCRIPTION
1	COPPER CHANNEL PLAN AND PROFILE STA. 0+00 TO STA. 13+25
2	COPPER CHANNEL PLAN AND PROFILE STA. 13+25 TO STA. 26+50
3	COPPER CHANNEL PLAN AND PROFILE STA. 26+50 TO STA. 37+75
4	JEWEL PLACE PLAN AND PROFILE
5	TURNER AVENUE PLAN AND PROFILE
6	PARKSIDE DRIVE PLAN AND PROFILE
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8	WINGWALL DETAILS
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11	BRIDGE RAIL DETAILS
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14	COPPER CHANNEL CROSS SECTIONS
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17	COPPER CHANNEL CROSS SECTIONS

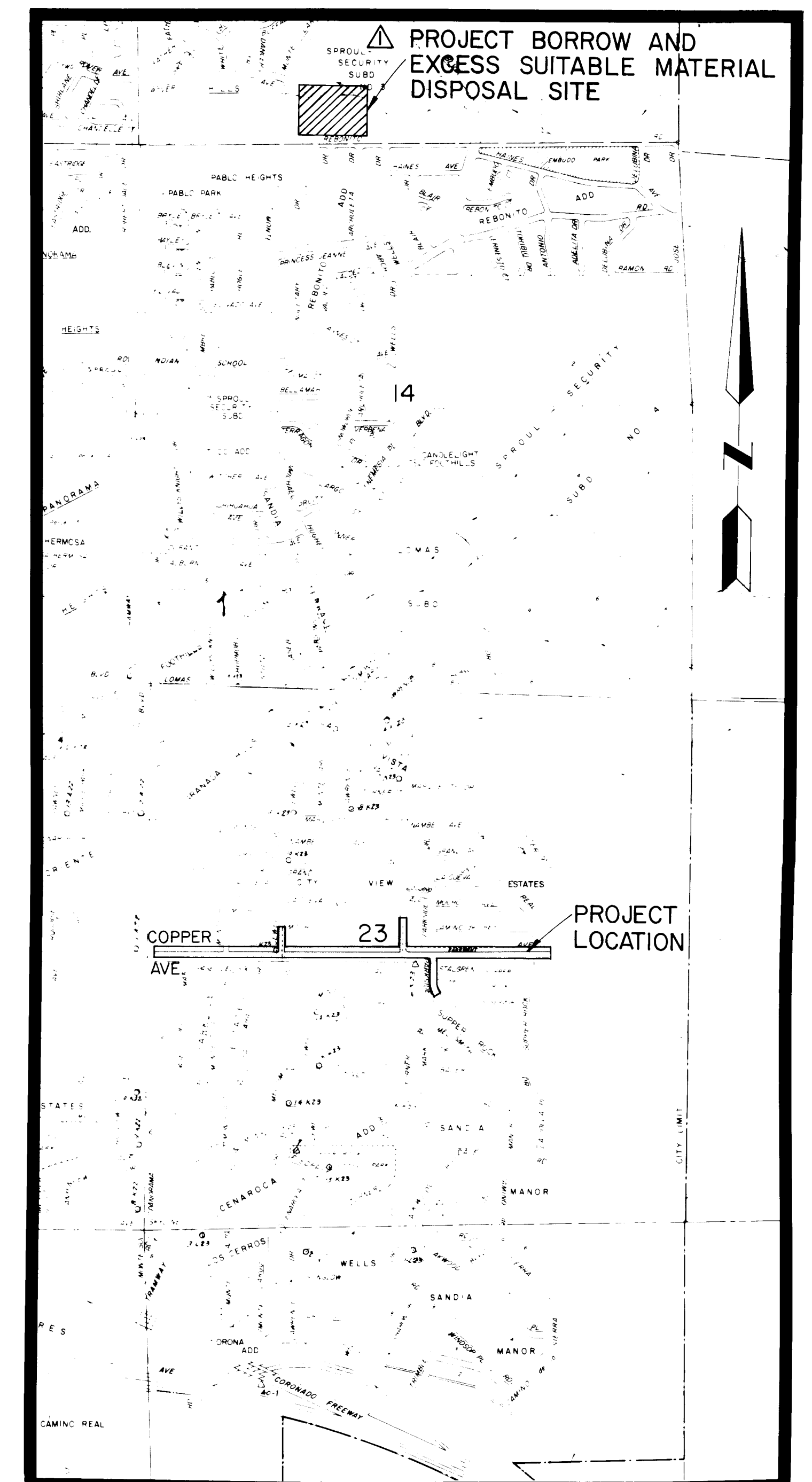
LEGEND

	Existing Fire Hydrant
	Existing Sanitary Sewer
	Existing Waterline
	Existing Overhead Telephone
	Existing Powerline
	Existing Manhole
	Proposed Sanitary Sewer
	Proposed Storm Sewer
	Proposed Waterline

GENERAL NOTES

1. THE CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE PROJECT SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT PRIVATE AND PUBLIC UTILITY REPRESENTATIVES TO COORDINATE CONSTRUCTION EFFORTS. REPRESENTATIVES SHALL BE GIVEN SUFFICIENT ADVANCE WARNING TO SCHEDULE LINE RELOCATIONS OR OTHER CONSTRUCTION ACTIVITIES.
3. THE BORROW SITE FOR THIS PROJECT SHALL BE THE STOCKPILE LOCATED WITHIN THE EMBUDO ARROYO EAST OF MONTE LARGO DRIVE. ALL EXCESS SUITABLE MATERIAL SHALL BE STOCKPILED AT THIS SITE. SEE VICINITY MAP THIS SHEET.
4. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR ADJUSTING MANHOLES, WATER VALVES, WATER METERS, ETC. TO GRADE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY TRAFFIC CHANNELIZING DEVICES, BARRICADES, DETOUR SIGNS, ETC., AS DIRECTED AND APPROVED BY THE ENGINEER. THESE ITEMS SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
6. PERMANENT HAZARD MARKERS SHALL BE INSTALLED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE DRAWINGS AS DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR ON A PER EACH BASIS COMPLETE IN PLACE.
7. AT NO TIME DURING THE PROJECT WILL JEWEL PLACE AND TURNER AVENUE BE CLOSED TO TRAFFIC AT THE SAME TIME. CONSTRUCTION AT THESE LOCATIONS SHALL NOT OCCUR CONCURRENTLY.
8. THE CONTRACTOR SHALL EXCAVATE UNDERGROUND UTILITIES TO CONFIRM THE ACCEPTABILITY OF PROPOSED RELOCATION DESIGNS WELL IN ADVANCE SO AS NOT TO DELAY THE CONSTRUCTION SEQUENCE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
9. RELOCATIONS OR SHUTOFFS OF LARGE DIAMETER WATER LINES SHALL BE COORDINATED WITH THE CITY OF ALBUQUERQUE WATER RESOURCES DEPARTMENT, WATER DIVISION AND ENGINEERING DIVISION, AND SHALL BE SCHEDULED AFTER OCTOBER 1, 1980.
10. THE CONTRACTOR SHALL INSTALL AIR RELEASE TAPS AND/OR FLUSH TAPS AS REQUIRED TO FACILITATE WATER LINE RELOCATIONS AT NO EXTRA COST TO THE OWNER. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
11. ANY SHORING AND/OR SHEET PILING THE CONTRACTOR DEEMS NECESSARY TO CONSTRUCT PORTIONS OF THIS PROJECT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR SHORING AND/OR SHEET PILING.
12. FOR THE PURPOSES OF THIS CONTRACT, CONCRETE CHANNEL BOTTOM SHALL BE PAID FOR AS CONCRETE SLOPE PAVING (8" THICK). CONCRETE CHANNEL SIDESLOPES SHALL BE PAID FOR AS CONCRETE SLOPE PAVING (6" THICK).
13. THE PROJECT SIGN FOR THE PROJECT SHALL BE SUPPLIED BY THE CONTRACTOR AND PAID FOR AS INDICATED IN THE BID PROPOSAL.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY AND/OR PERMANENT RELOCATION AND/OR BRACING OF PRIVATE UTILITIES WITHIN THE CHANNEL RIGHT-OF-WAY, AND ALL COSTS INVOLVED THEREIN. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS."
15. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO WITHIN AVAILABLE RIGHT-OF-WAY.
16. ALL ITEMS DESIGNATED ON THE PLANS OR BY THE ENGINEER TO BE SALVAGED SHALL BE DELIVERED TO THE CITY YARD, 5501 PINO ROAD, N.E., BY THE CONTRACTOR.

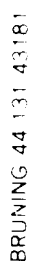
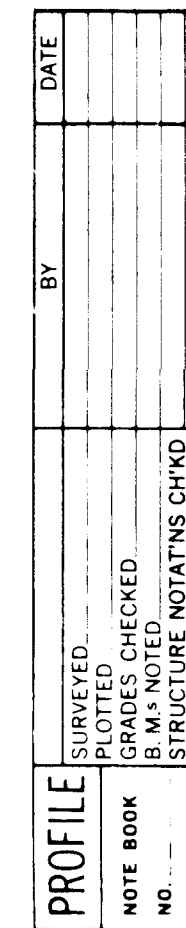
W. J. McNamee
5-16-80

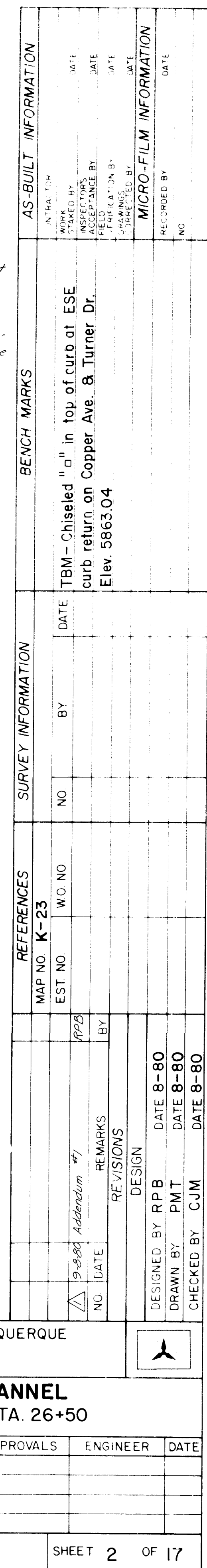
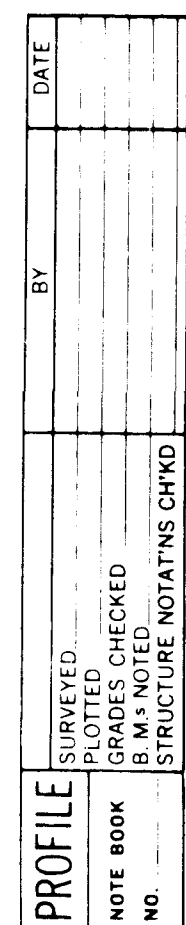


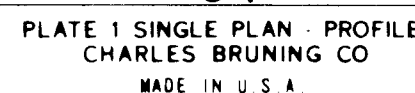
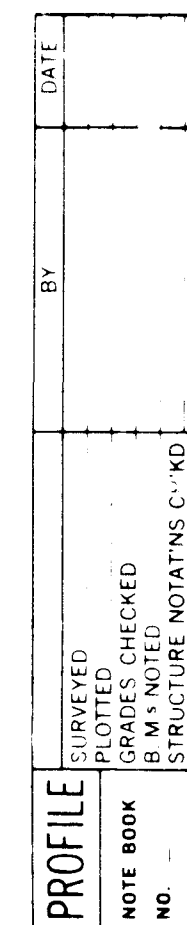
2891

VICINITY MAP 26 28910086
NO SCALE

ADDENDUM NO.1 9-8-80

[illegible]

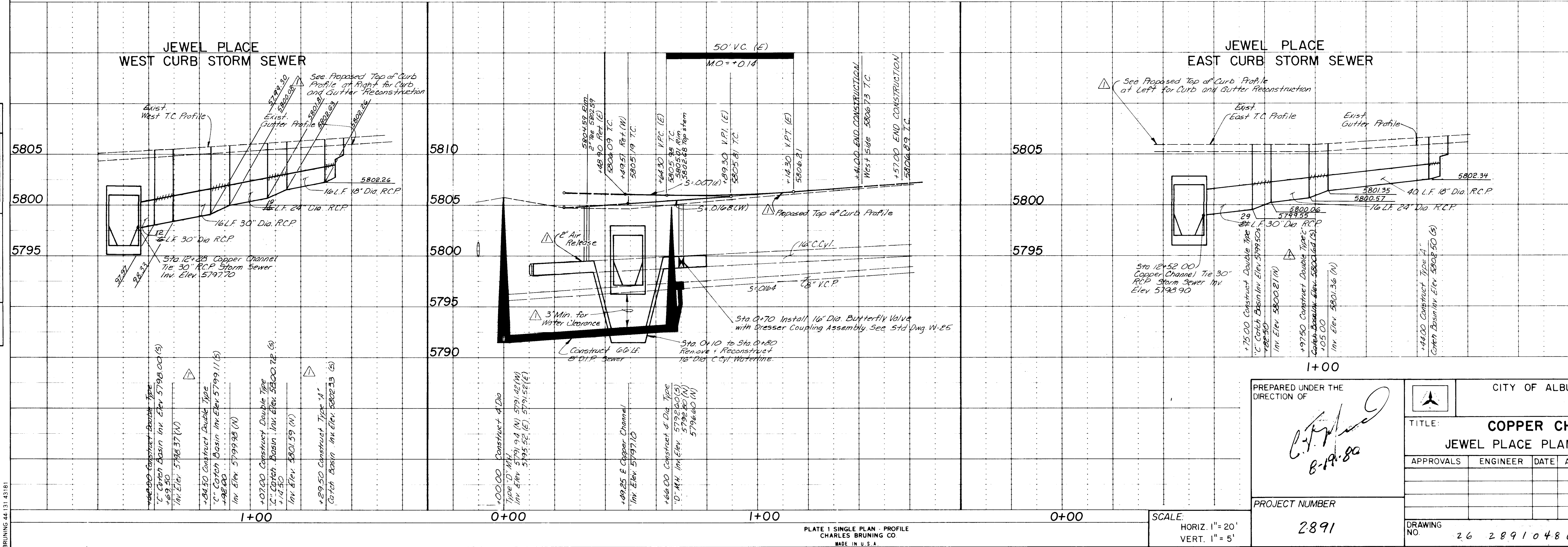




PREPARED UNDER THE DIRECTION OF 			CITY OF ALBUQUERQUE			
	TITLE COPPER CHANNEL STA.26+50 TO STA. 37+75					
PROJECT NUMBER	APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
2891	DRAWING NO. 26 28910386				SHEET 3 OF 17	

PLAN	DATE	BY
SURVEYED		
NOTED		
ALIGNMENT CHECKED		
RT OF WAY CHECKED		
NO.		

PROFILE	DATE	BY
SURVEYED		
NOTED		
STRUCTURE NOTATIONS CHKD		
NO.		



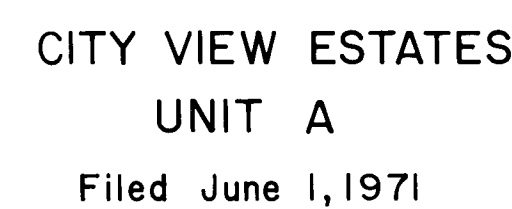
CITY VIEW ESTATES
UNIT B
(Filed Aug. 9, 1979)

CITY VIEW ESTATES
UNIT C
(Filed June 10, 1971)

NOTE:
Contractor Shall Remove Existing 42" C.M.P.'s
'Sanitary Manholes as Part of the Bid Item,
Removal of Structures and Obstructions.

AS-BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	REFERENCES
CONTRACTOR		NO.	MAP NO. K-23
WORKED BY		BY	EST. NO.
INSPECTED BY		DATE	W.O. NO.
ACCEPTANCE BY			
DATE			
VERIFIED BY			
DATE			
DESIGNED BY			
DATE			
RECORDED BY			
NO.			

PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE	
TITLE: COPPER CHANNEL		JEWEL PLACE PLAN AND PROFILE	
APPROVALS	ENGINEER	DATE	APPROVALS
ENGINEER	DATE	APPROVALS	ENGINEER
DATE	DATE	DATE	DATE
PROJECT NUMBER		2891	
SCALE: HORIZ. 1" = 20'		VERT. 1" = 5'	
DRAWING NO.		26 28910486	
SHEET 4		OF 17	



Notes:

1. Contractor Shall Remove Existing Channel and Culvert Improvements as part of the Bid Item *Removal of Structures and Obstructions.*

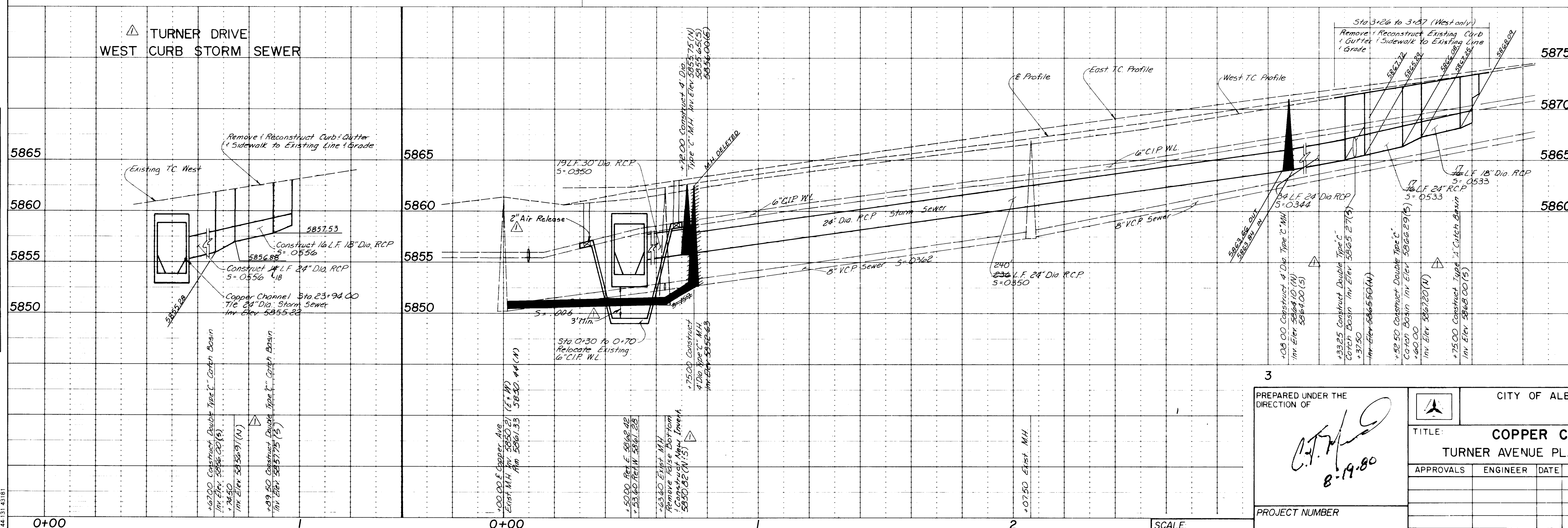
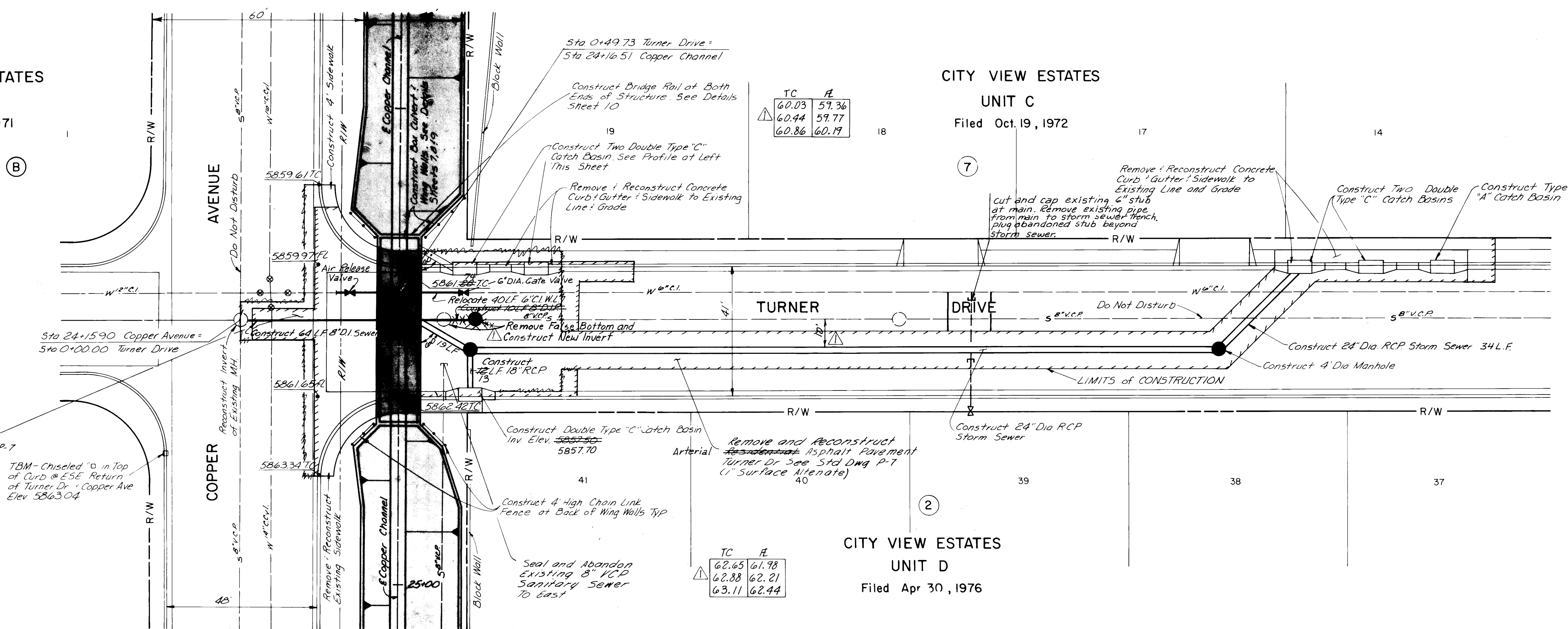


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

SCALE:
HORIZ. 1" = 20'
VERT. 1" = 5'

PREPARED UNDER THE
DIRECTION OF

SIGNED UNDER THE
 AUTHORITY OF


PROJECT NUMBER

2891

CITY OF ALBUQUERQUE



TITLE: **COPPER CHANNEL**
TURNER AVENUE PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
-----------	----------	------	-----------	----------	------

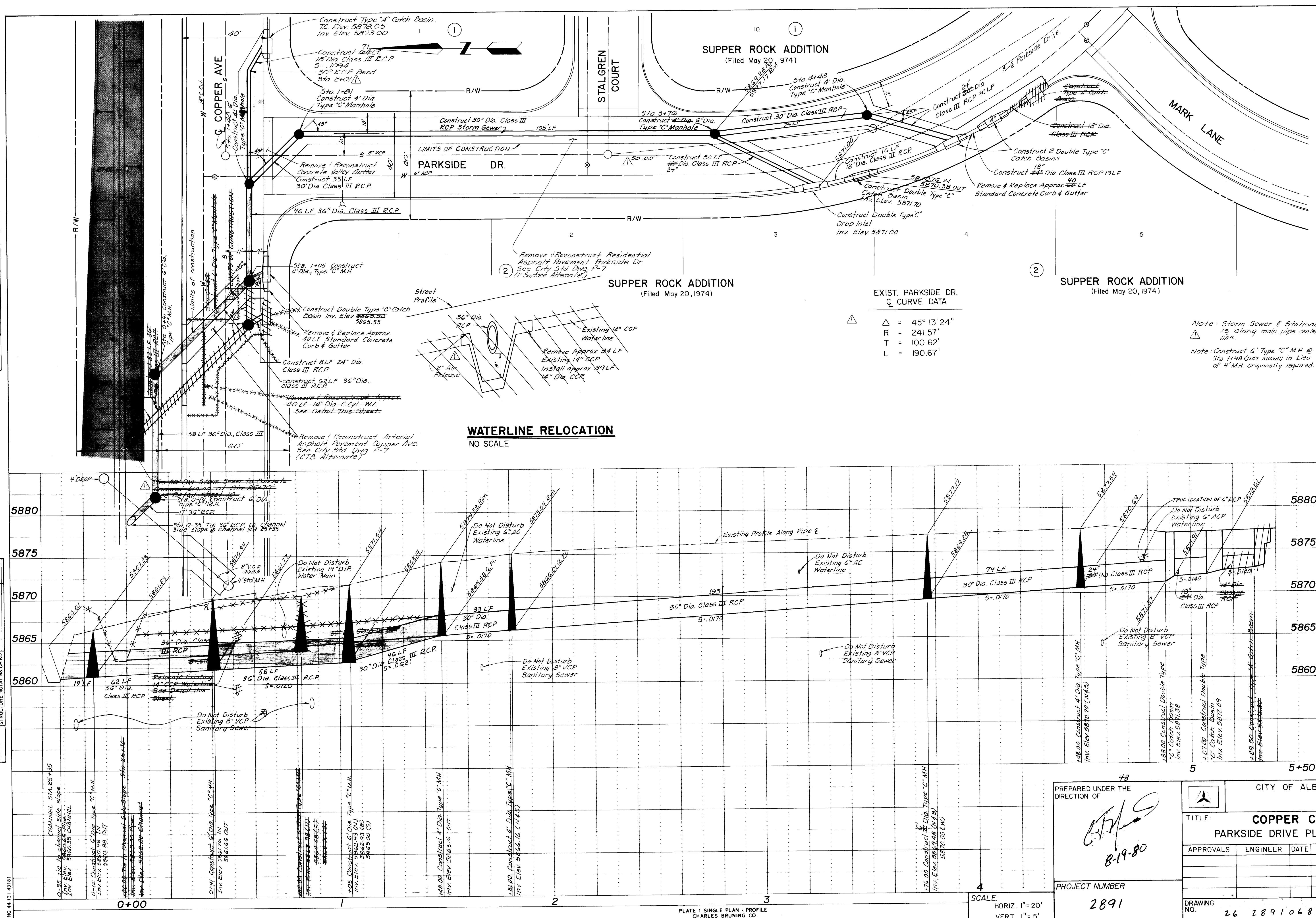
DRAWING
NO. 26 28910586

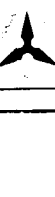
SHEET 5 OF 17

		REFERENCES		SURVEY INFORMATION				BENCH MARKS		AS-BUILT INFORMATION	
		MAP NO.	K-23	EST. NO.	W/O NO.	NO.	BY	DATE		CONTRACTOR	
	9/18/00	Addendum #1	RFB						TBM— Chiseled "B" in top of curb at ESE corner of Turner Dr. and Copper Ave. Elev. 5863.04	WORKED BY INSPECTORS ACCEPTANCE BY VERIFICATION BY DRAWINGS CHECKED BY	
NO. DATE		REMARKS	BY							DATE	
DESIGN REVISIONS											
DESIGN											
DESIGNED BY RPB		DATE 8-80								MICRO-FILM INFORMATION	
DRAWN BY PMT		DATE 8-80								RECORDED BY	
CHECKED BY CMM										NO.	

IRUNING 44.131 43181

PROFILE	SURVEYED	BY	DATE
	PLOTTED NOTE BOOK GRADES CHECKED B. M.'S NOTED NO. _____ STRUCTURE NOTAT'NS CHWD		



BUQUERQUE CHANNEL PLAN AND PROFILE 									
APPROVALS				ENGINEER				DATE	
SHEET 6 OF 17				6				17	

PROFILE	SURVEYED.....	BY.....	DATE.....
	PLOTTED.....		
	GRADES CHECKED.....		
	B.M.'S NOTED.....		
	STRUCTURE NOTATIONS CHWD.....		

a-bars & c-bars
b-bars same dia. as a-bars
k-bars same dia. as e-bars

Tabulated Length

3'-0"

R = 3 1/2 bar dia. for 3 # to 7 #
R = 4 1/2 bar dia. for 8 # to 11 #

Place this End in Sidewall

T_a - T_b - & T_c-bars

L + (10" at Each End)

PH + 4'-0"

4'-6"

g/h bars

1'-0" Lap

1 1/2" Rad.

4 # n PH-4 1/2"

4 # g 2' - 6 1/2"

Hand-drawn structural diagram of a corner joint for a 3000 PSI concrete fillet. The diagram shows a vertical wall and a horizontal base meeting at a 90-degree corner. A diagonal fillet is cast in the corner, labeled "3000 PSI Concrete Fillet". Reinforcement includes #4 Deformed Bars (1'-0" Long 1'-0" OC) in the vertical wall, #4 Rebar (1'-0" OC Both Ways) in the fillet, and #4 Deformed Bars (1'-0" Long 1'-0" OC) in the horizontal base. The base has a "Beveled 2" x 8" Keyway". Dimensions include 7" for wall thickness, 1 1/2" for fillet thickness, 2'-2" for fillet length, 1'-4" for fillet width, and 7" for base thickness. Other labels include "D Bars", "Cb Bars", and "Tb Bars".

BOX CULVERT CONCRETE FILLET DETAIL

PART ELEVATION
OF CUT-OFF

 LONGITUDINAL WALL SECTION
NO SCALE

- DESIGN DATA
- Design according to A.A.S.H.O. Spec's '1973
Live Load: H2C- S16- 44 Interstate A1T; Ldg.
Wt. of Fill on Top of Box: 84#/cu. ft.
Horiz. Earth Press: 30#/cu. ft., 2' surcharge
Design Stresses: f'c=3000 psi
fc=1200 psi
fs=20,000 psi
n=10

CITY OF ALBUQUERQUE

TITLE **COPPER CHANNEL**
CONCRETE BOX CULVERT DETAILS

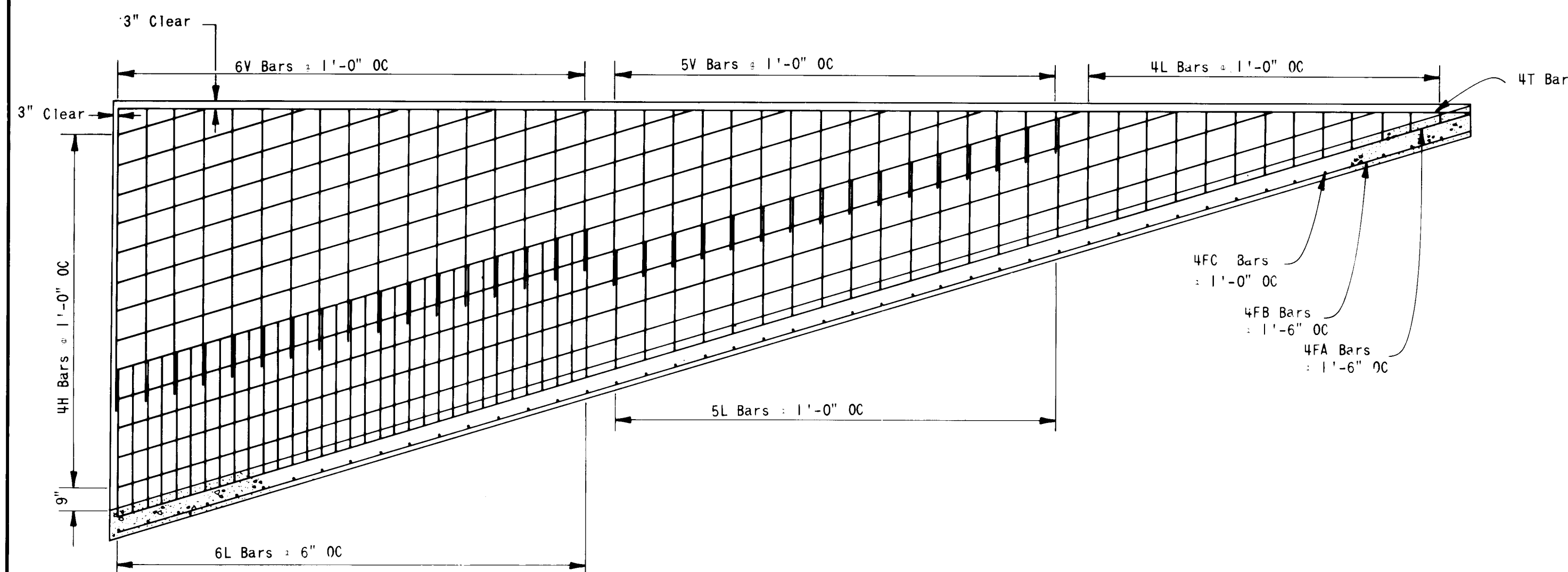
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
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PROJECT NUMBER

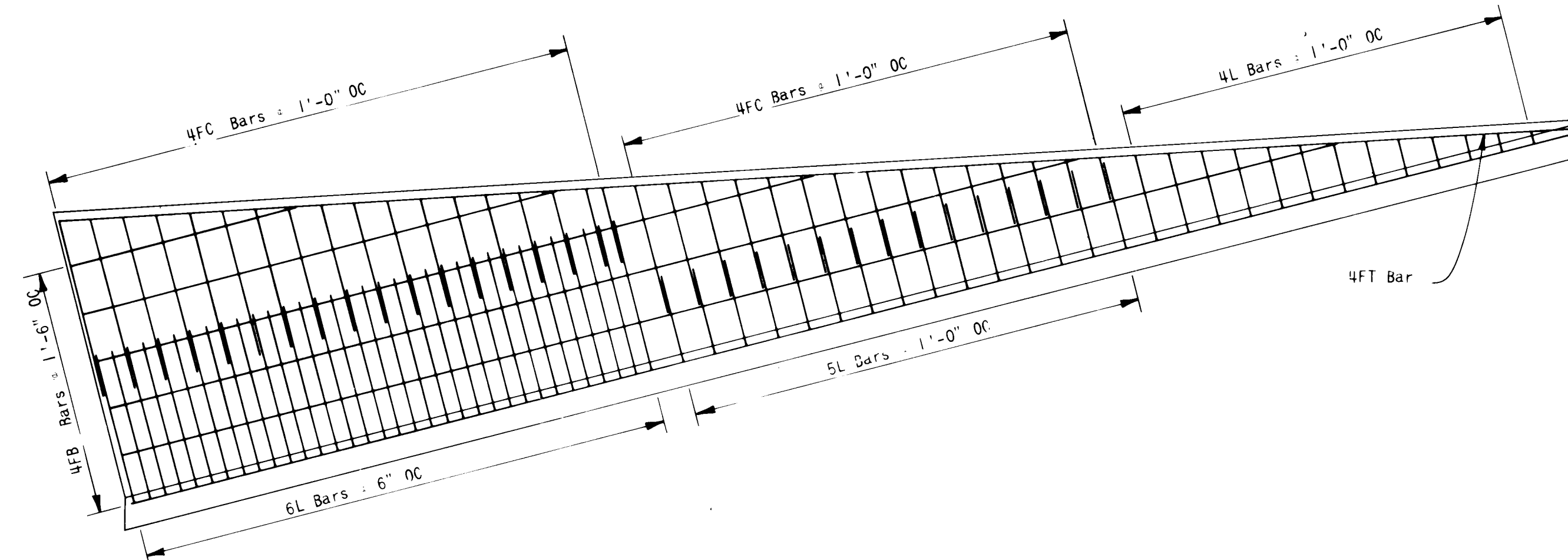
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DRAWING NO.	26 28910786
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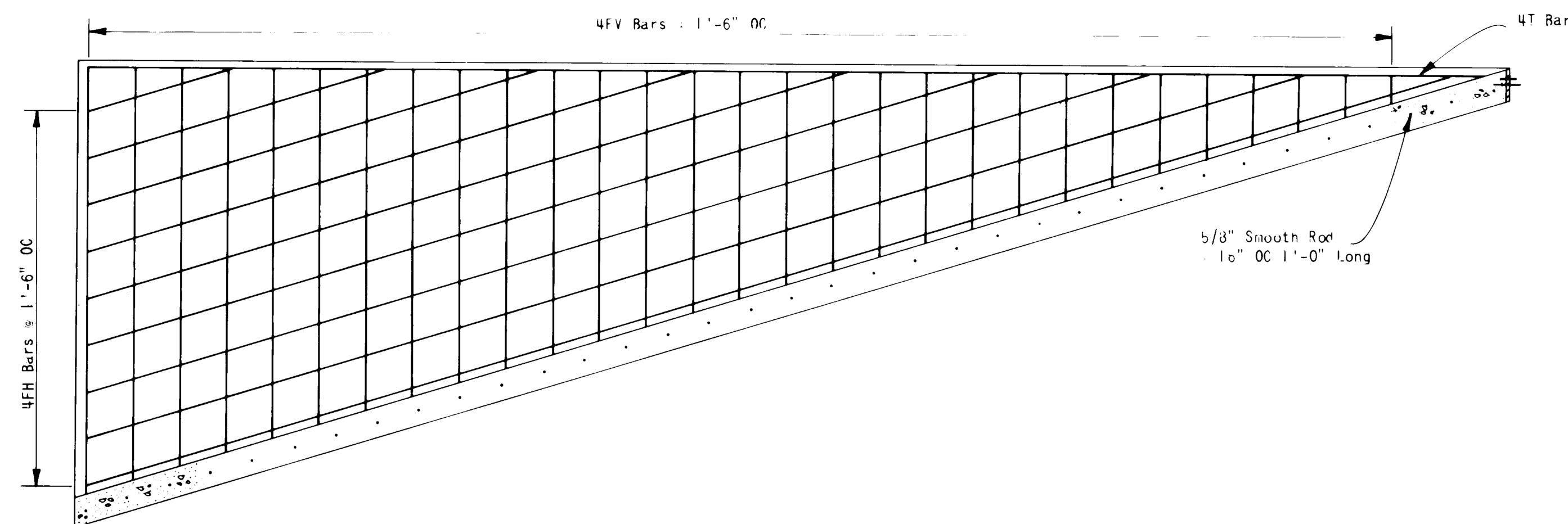
SHEET 7 OF 14



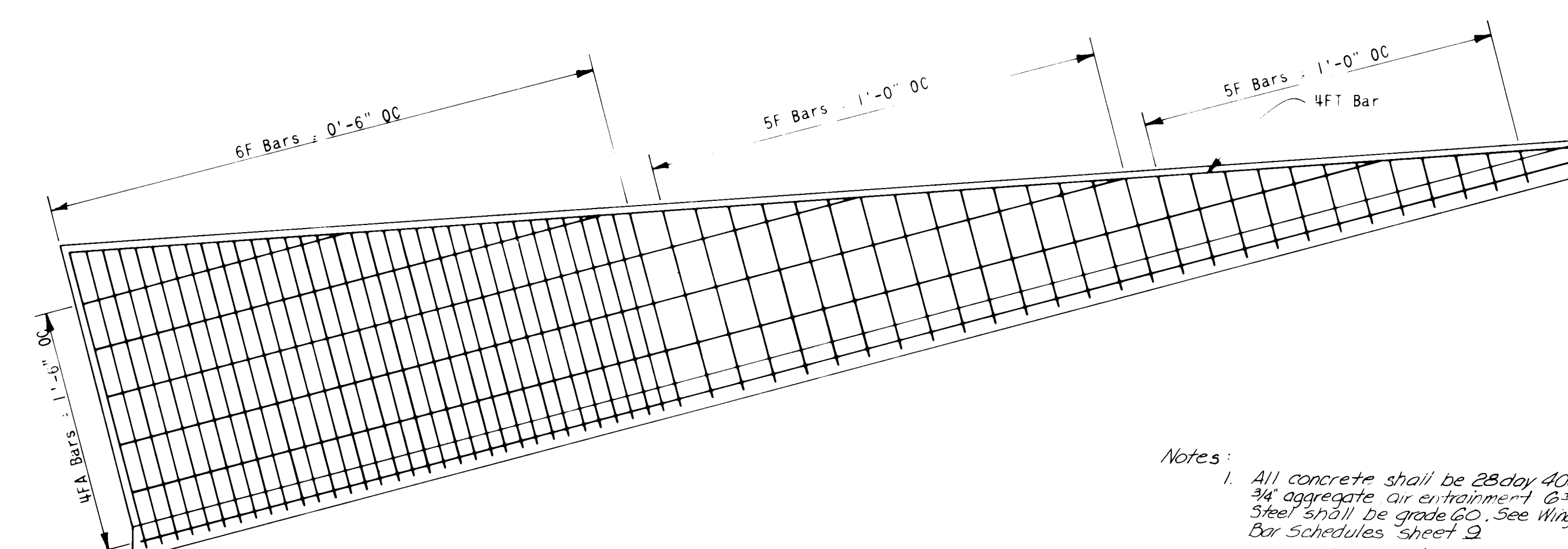
BACK FACE WALL STEEL



**PROJECTED TOP VIEW OF FOOTING
(BOTTOM STEEL)**



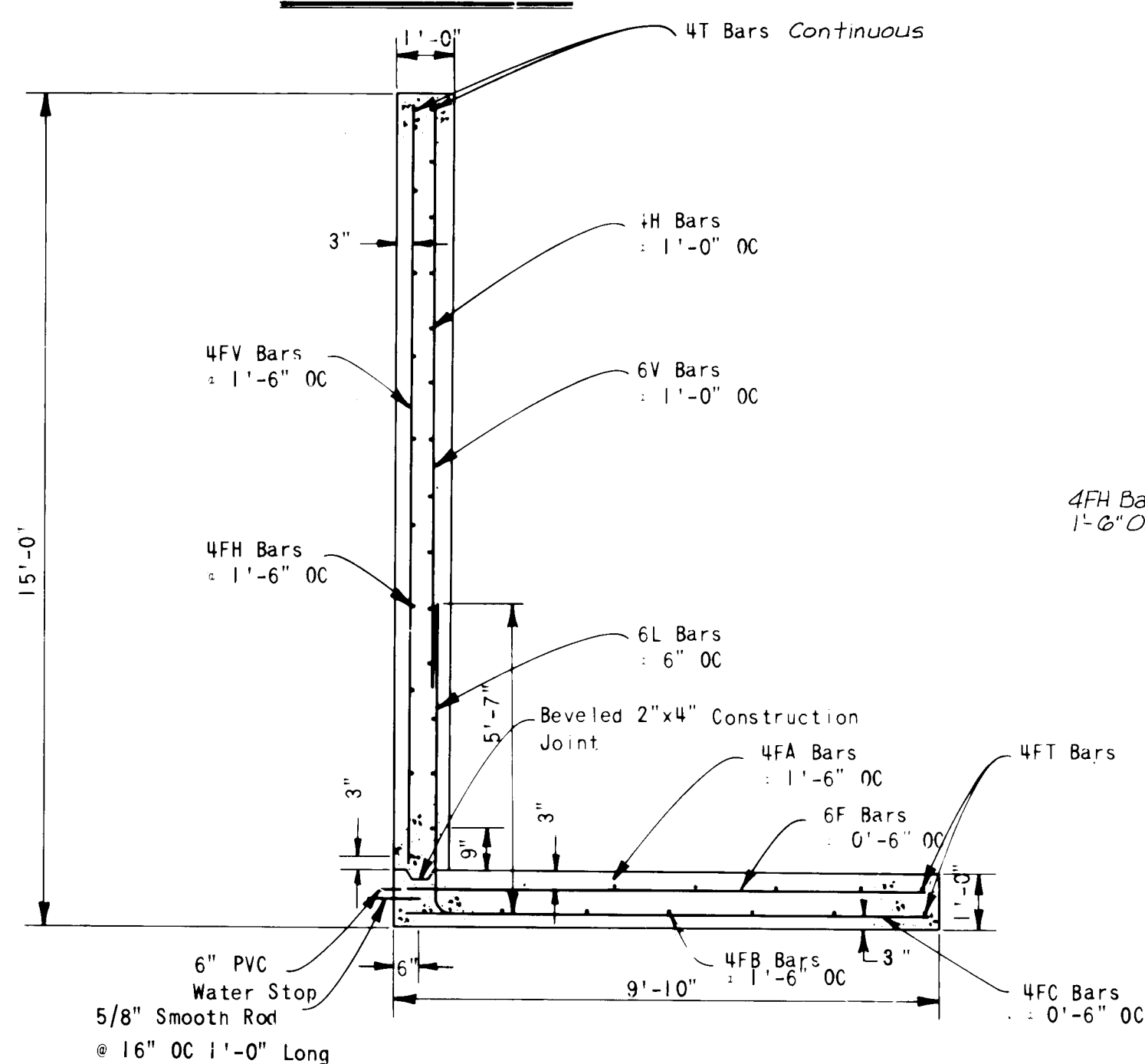
FRONT FACE WALL STEEL



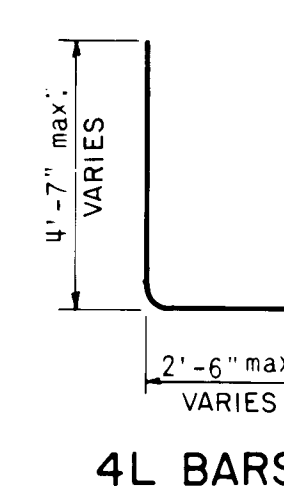
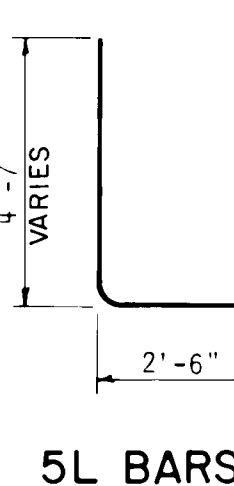
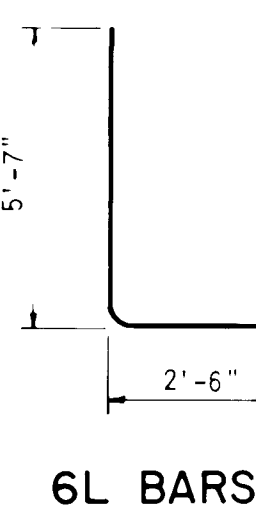
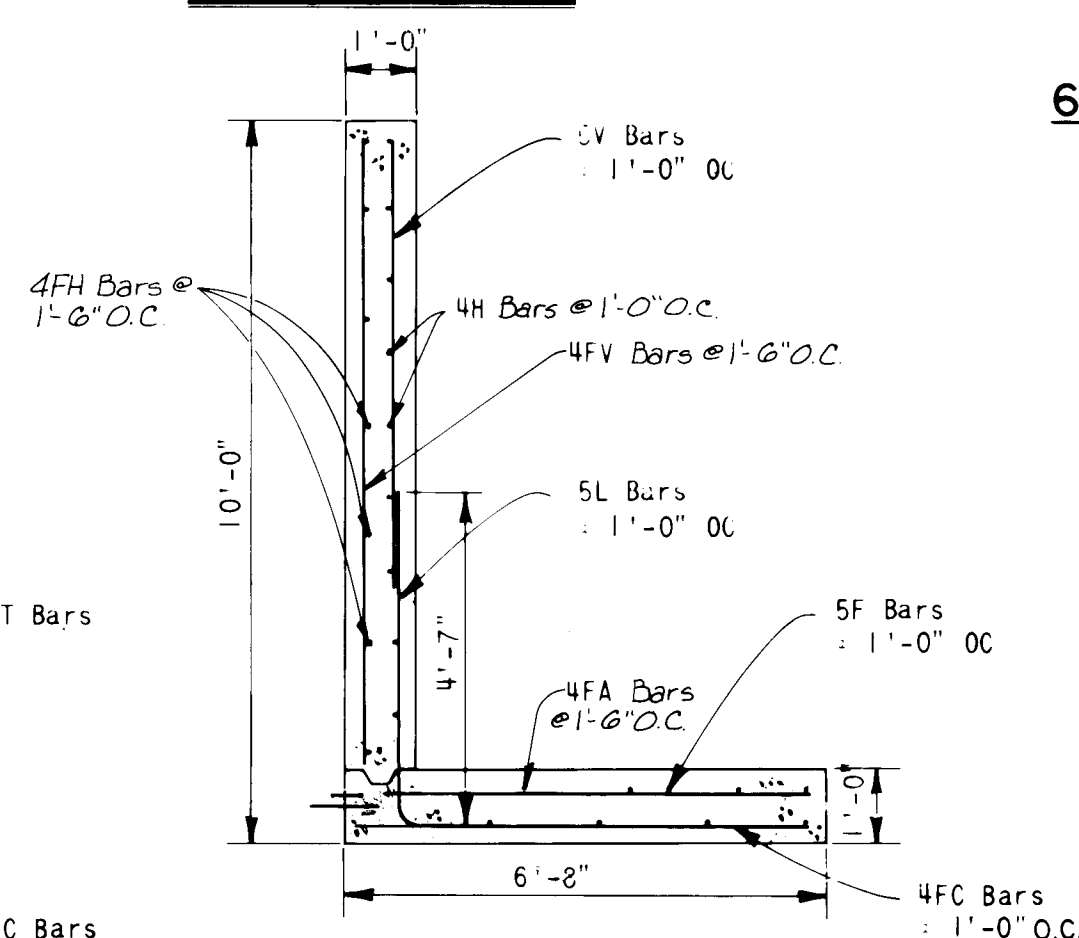
**PROJECTED TOP VIEW OF FOOTING
(TOP STEEL)**

- Notes:
1. All concrete shall be 28 day 4000 PSI, 3/4" aggregate, air entrainment @ 2%, steel shall be grade 60. See Wing Wall Bar Schedules Sheet 9.
 2. Contraction joints shall be installed in retaining wall at 10' on center.
 3. Wall sections with heights of 2'-0" or less shall be poured monolithically with footing.
 4. See sheet 9 for wingwall locations and dimensional data.

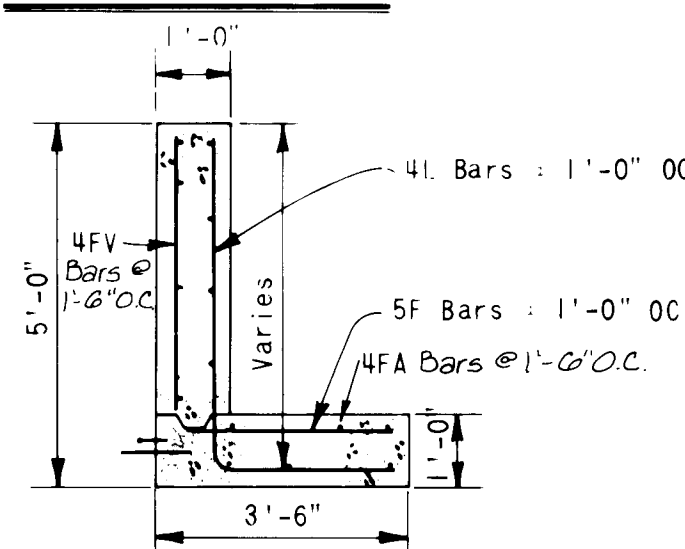
TYPICAL 15' WALL SECTION



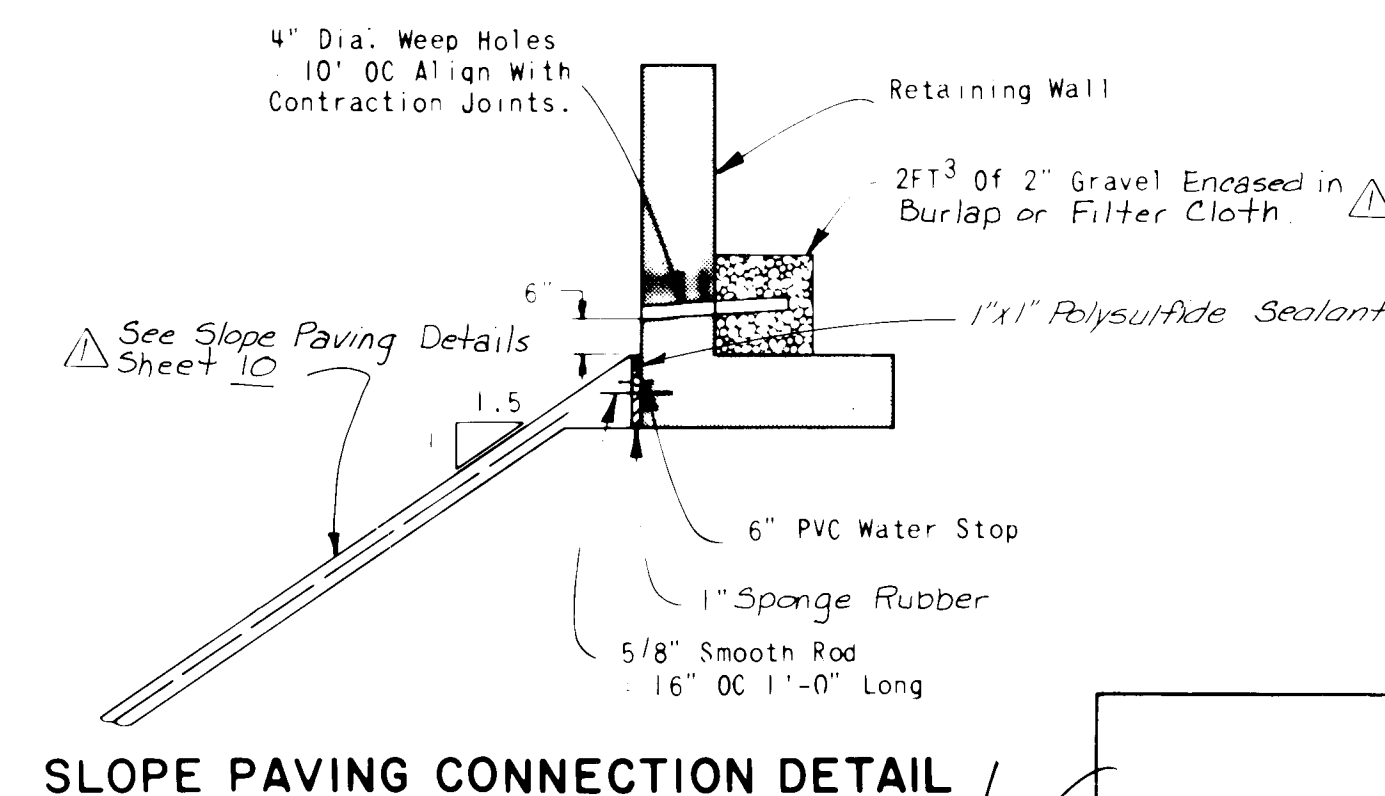
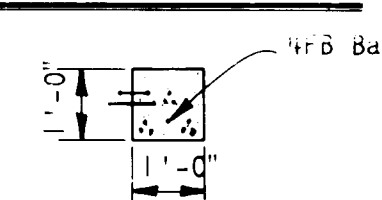
TYPICAL 10' WALL SECTION



TYPICAL 5' WALL SECTION



TYPICAL 1' WALL SECTION



SLOPE PAVING CONNECTION DETAIL

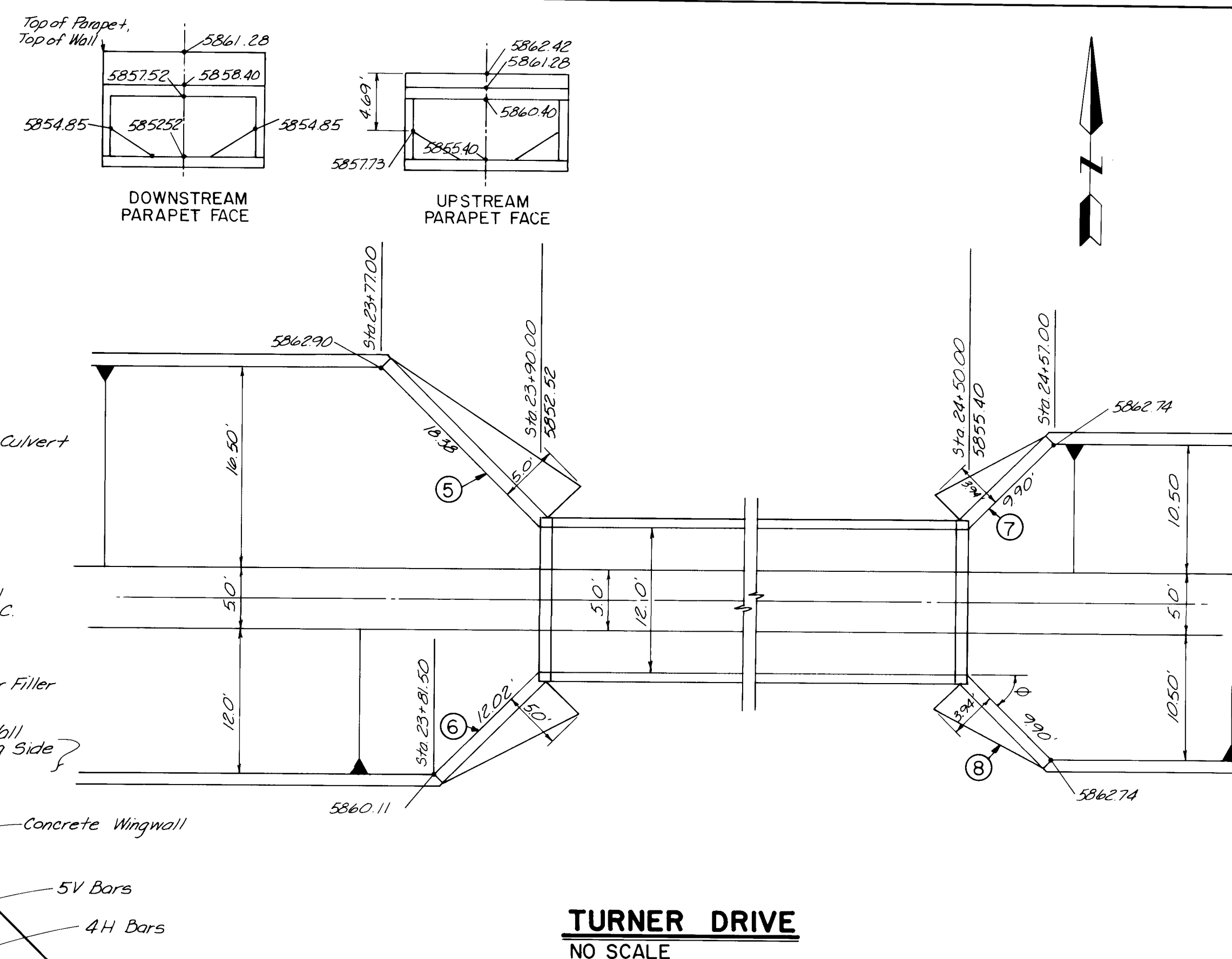
NO SCALE
APPROVED FOR
CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE					
TITLE: COPPER CHANNEL WINGWALL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
ACE - Design			Traffic		
ACE - Hydrology			Water		
DRAWING NO. 2891			SHEET 8 OF 17		
DESIGNED BY RPB			DATE 8-80		
DRAWN BY PMT			DATE 8-80		
CHECKED BY CUM			DATE 8-80		

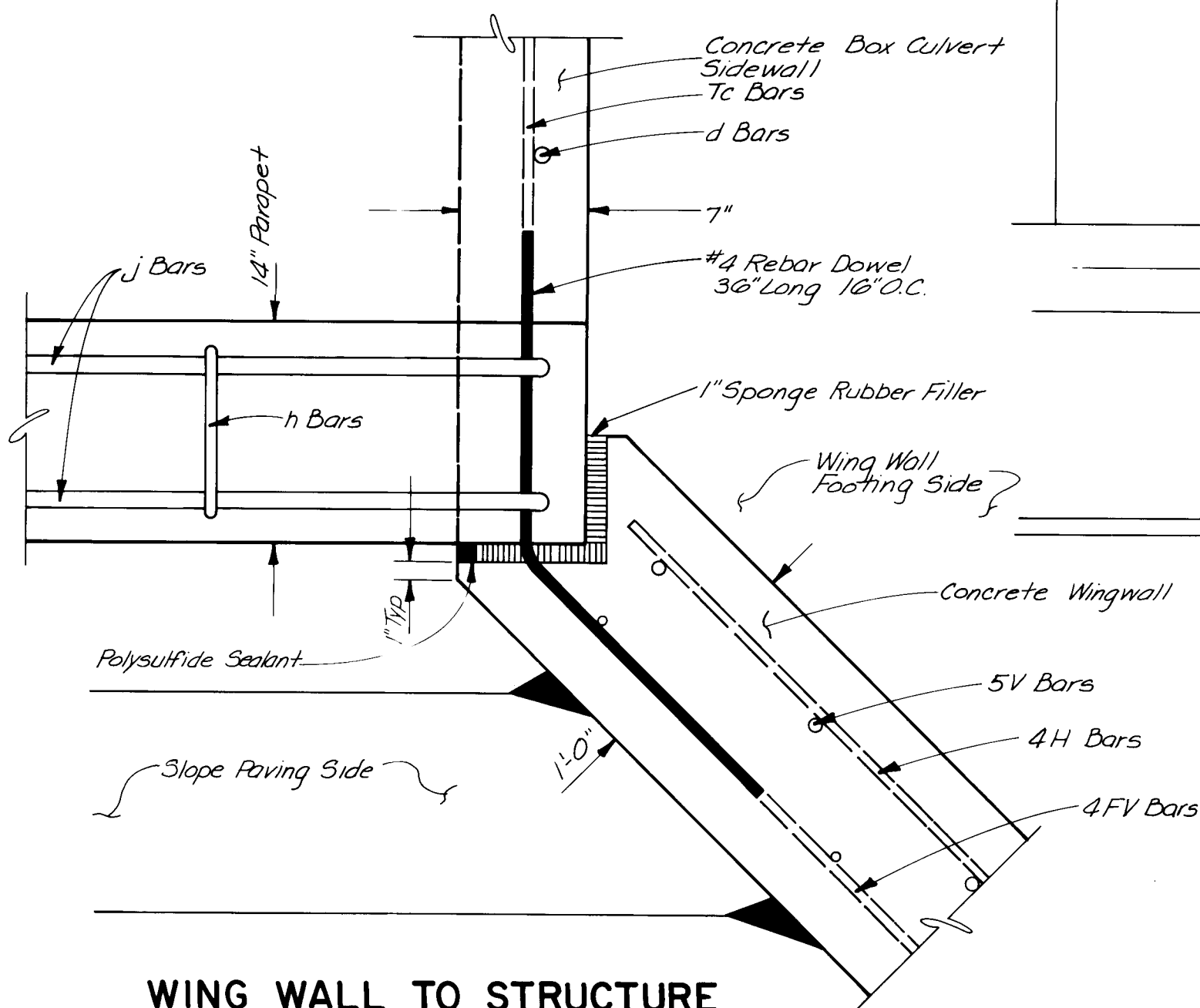
AS BUILT INFORMATION					
CONTRACTOR	DATE	INSPECTOR'S	DATE	FIELD	DATE
STAMPED BY	DATE	VERIFICATION BY	DATE	CORRECTED BY	DATE
MICRO-FILM INFORMATION					
RECORDED BY	DATE	NO			

BENCH MARKS		SURVEY INFORMATION		REFERENCES	
		FIELD NOTES	DATE	MAP NO. K-23	W.O. NO.
		NO.	BY	EST. NO.	

REVISIONS		REMARKS	
NO.	DATE	BY	RPB
1	8-80	Addendum #1	

[illegible]

			WALL NUMBER										
			1	2	3	4	5	6	7	8			
6L Bars	No. Required		_____	_____	_____	_____	_____	_____	_____	_____	_____		
	Length		_____	_____	_____	_____	_____	_____	_____	_____	_____		
6V Bars	No. Required		_____	_____	_____	_____	_____	_____	_____	_____	_____		
	Length	From	_____	_____	_____	_____	_____	_____	_____	_____	_____		
	Varies	To	_____	_____	_____	_____	_____	_____	_____	_____	_____		
6F Bars	No. Required		_____	_____	_____	_____	_____	_____	_____	_____	_____		
	Length	From	_____	_____	_____	_____	_____	_____	_____	_____	_____		
	Varies	To	_____	_____	_____	_____	_____	_____	_____	_____	_____		
5L Bars	No. Required		5	5	4	4	7	5	2	2			
	Length		7'-1"	7'-1"	7'-1"	7'-1"	7'-1"	7'-1"	7'-1"	7'-1"	7'-1"		
5V Bars	No. Required		5	5	4	4	7	5	2	2			
	Length	From	4'-3"	4'-3"	2'-10"	2'-10"	3'-9"	3'-9"	2'-0"	2'-0"			
	Varies	To	1'-10"	1'-10"	1'-6"	1'-6"	1'-8"	1'-7"	1'-6"	1'-6"			
5F Bars	No. Required		11	11	10	10	16	11	9	9			
	Length	From	5'-2"	5'-2"	3'-11"	3'-11"	4'-5"	4'-5"	3'-4"	3'-4"			
	Varies	To	1'-7"	1'-7"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"			
4FC Bars	No. Required		5	5	3	3	7	5	2	2			
	Length	From	3'-6"	3'-6"	2'-5"	2'-5"	3'-0"	3'-0"	1'-10"	1'-10"			
	Varies	To	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	1'-6"	1'-6"			
4L Bars	No. Required		6	6	6	6	9	6	7	7			
	Hor. Length	From	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"	2'-6"			
	Varies	To	0	0	0	0	0	0	0	0			
	Ver. Length	From	4'-7"	4'-7"	4'-7"	4'-7"	4'-7"	4'-7"	4'-7"	4'-7"			
	Varies	To	0	0	0	0	0	0	0	0			
4H Bars	No. Required		6	6	4	4	6	6	4	4			
	Length	From	12'-0"	12'-0"	10'-3"	10'-3"	16'-2"	11'-4"	8'-4"	8'-4"			
	Varies	To	1'-10"	1'-10"	1'-6"	1'-6"	1'-0"	0'-9"	1'-3"	1'-3"			
4FV Bars	No. Required		8	8	8	8	12	8	6	6			
	Length	From	6'-6"	6'-6"	4'-2"	4'-2"	6'-1"	6'-1"	4'-4"	4'-4"			
	Varies	To	0'-6"	0'-6"	0'-3"	0'-3"	0'-4"	0'-6"	0'-9"	0'-9"			
4FH Bars	No. Required		4	4	3	3	4	4	3	3			
	Length	From	12'-9"	12'-9"	11'-3"	11'-3"	17'-9"	12'-5"	9'-6"	9'-6"			
	Varies	To	3'-8"	3'-8"	2'-6"	2'-6"	4'-0"	2'-10"	2'-5"	2'-5"			
4FA Bars	No. Required		3	3	3	3	3	3	3	3			
	Length	From	11'-8"	11'-8"	9'-2"	9'-2"	19'-0"	12'-7"	10'-6"	10'-6"			
	Varies	To	4'-2"	4'-2"	0'-8"	0'-8"	5'-6"	3'-6"	0'-6"	0'-6"			
4FB Bars	No. Required		3	3	3	3	3	3	2	2			
	Length	From	11'-2"	11'-2"	11'-2"	11'-2"	16'-10"	11'-2"	8'-10"	8'-10"			
	Varies	To	2'-8"	2'-8"	2'-8"	2'-8"	3'-3"	1'-11"	3'-9"	3'-9"			
4T Bars	No. Required		2	2									



NO SCALE

PREPARED UNDER THE
DIRECTION OF

C. F. H. S.
8-19-80

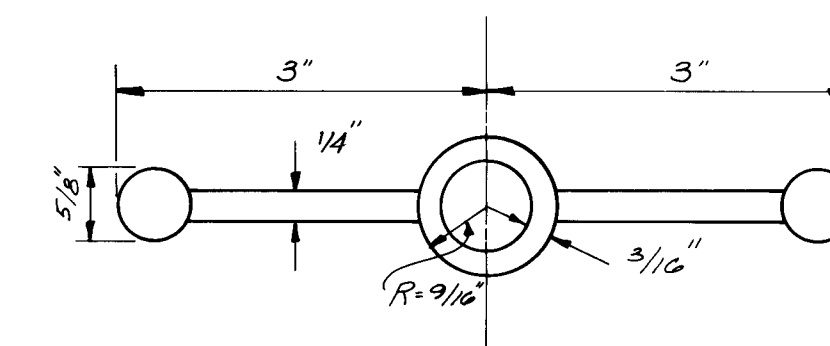
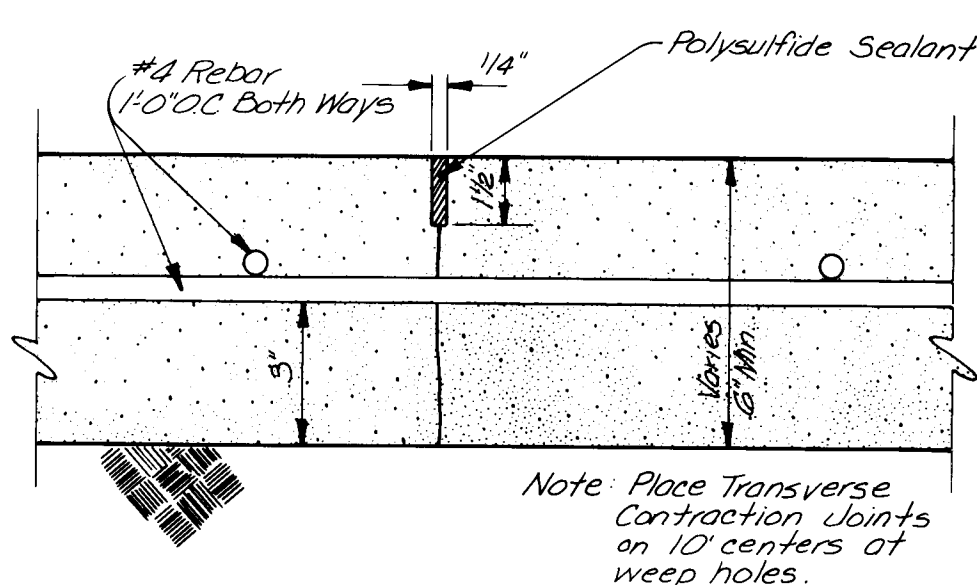
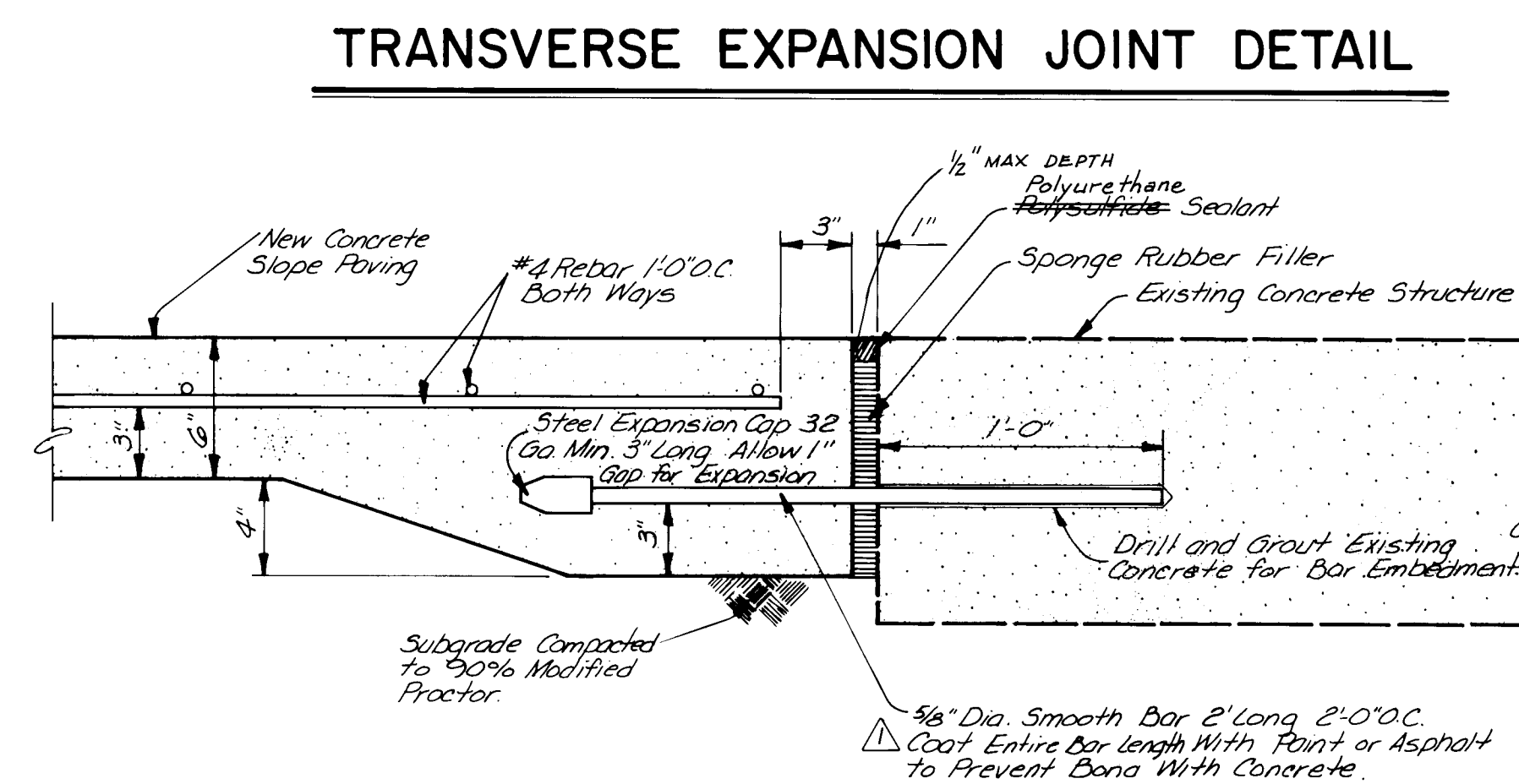
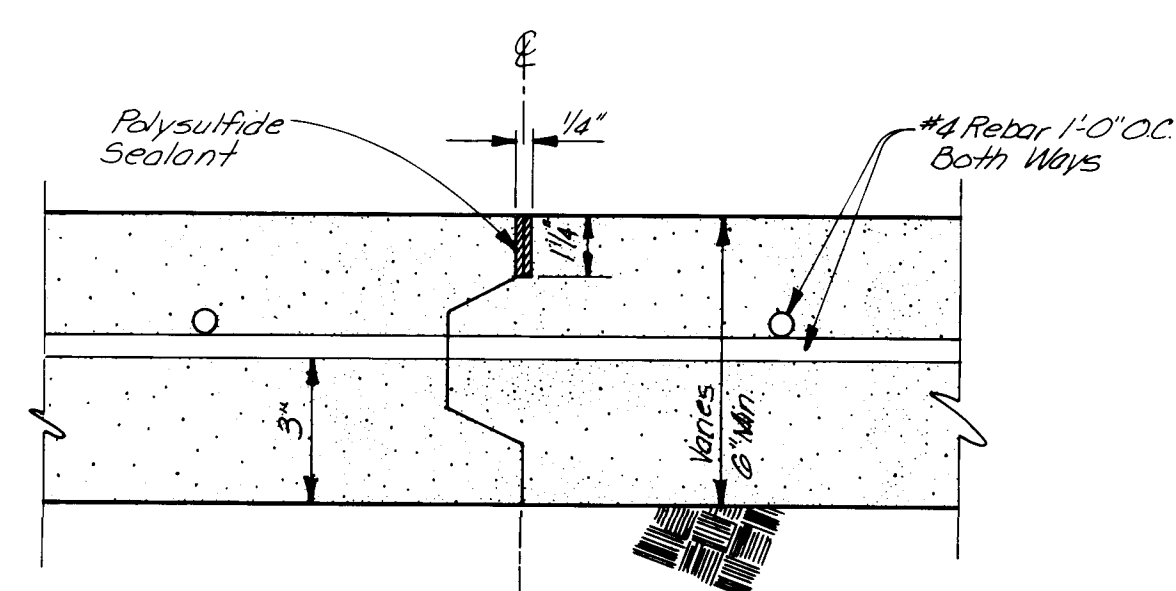
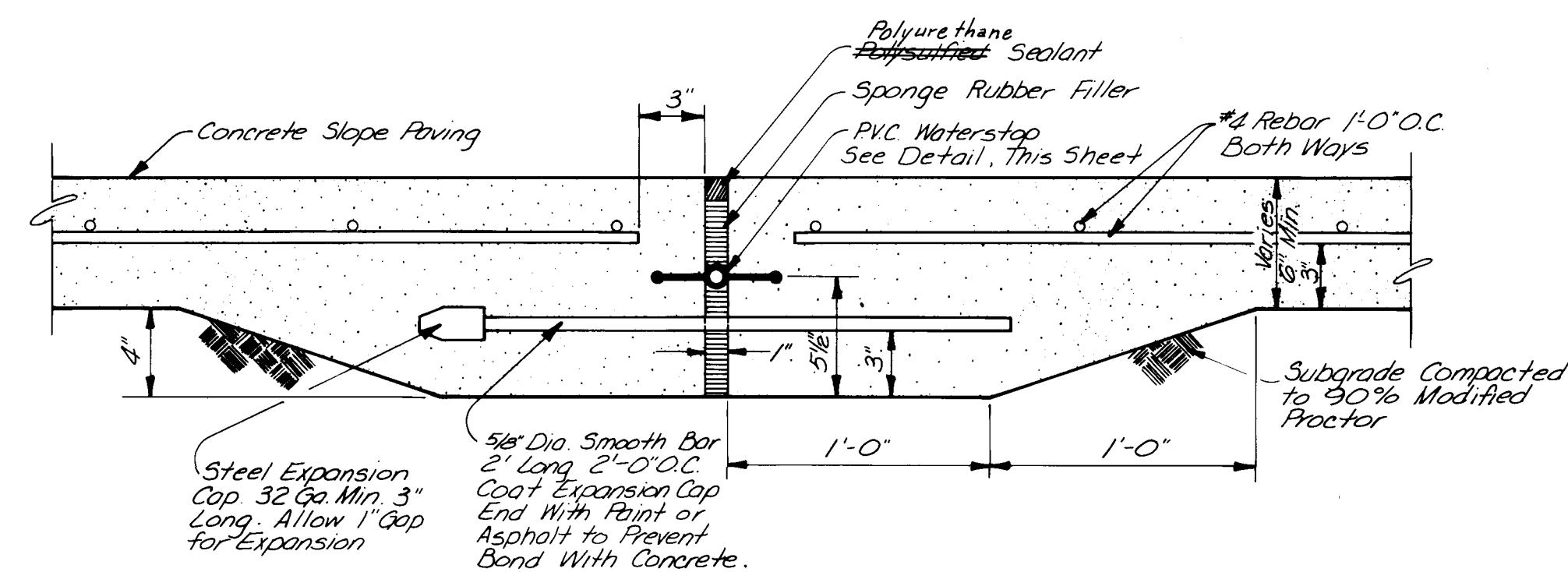
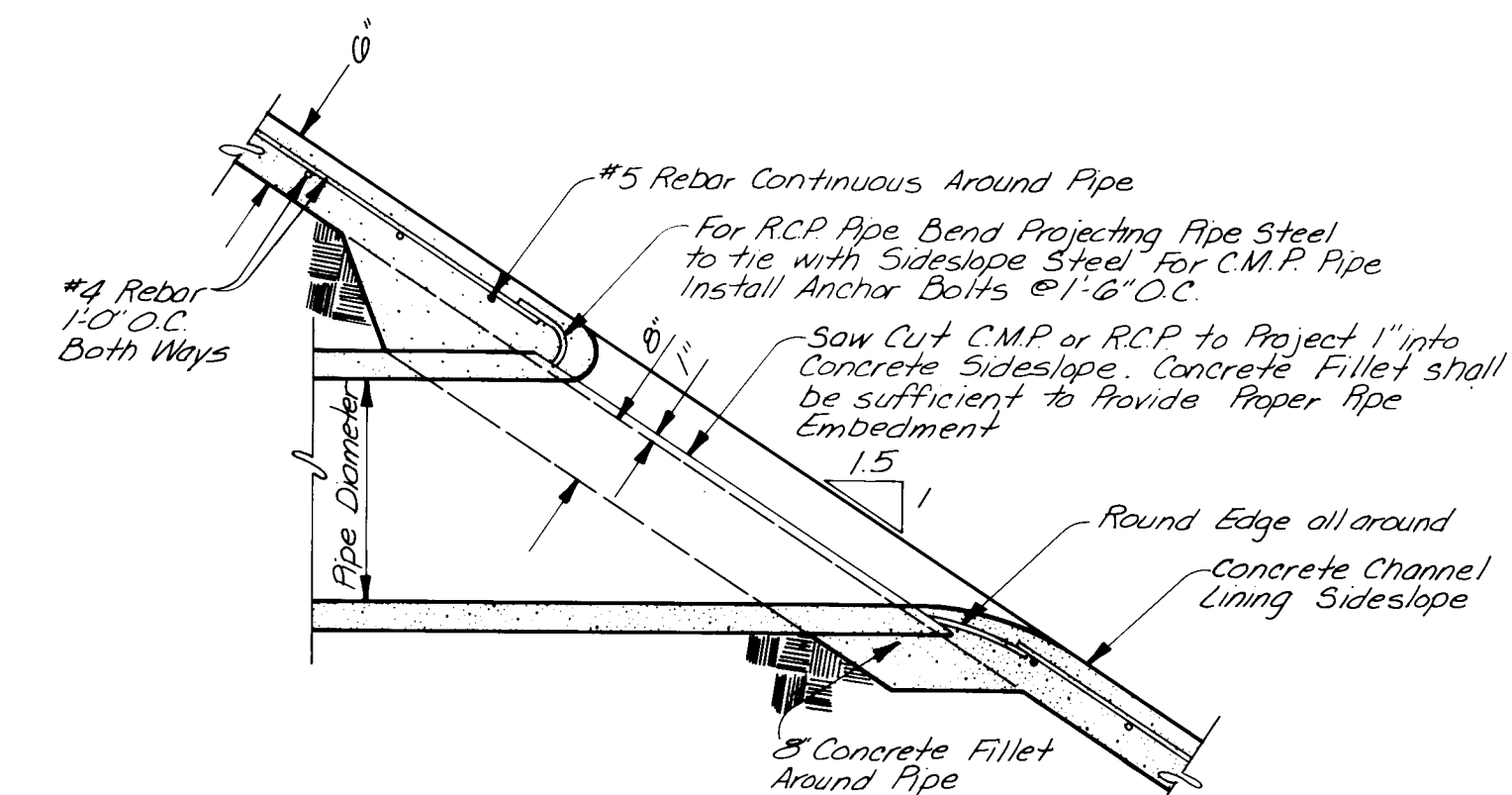
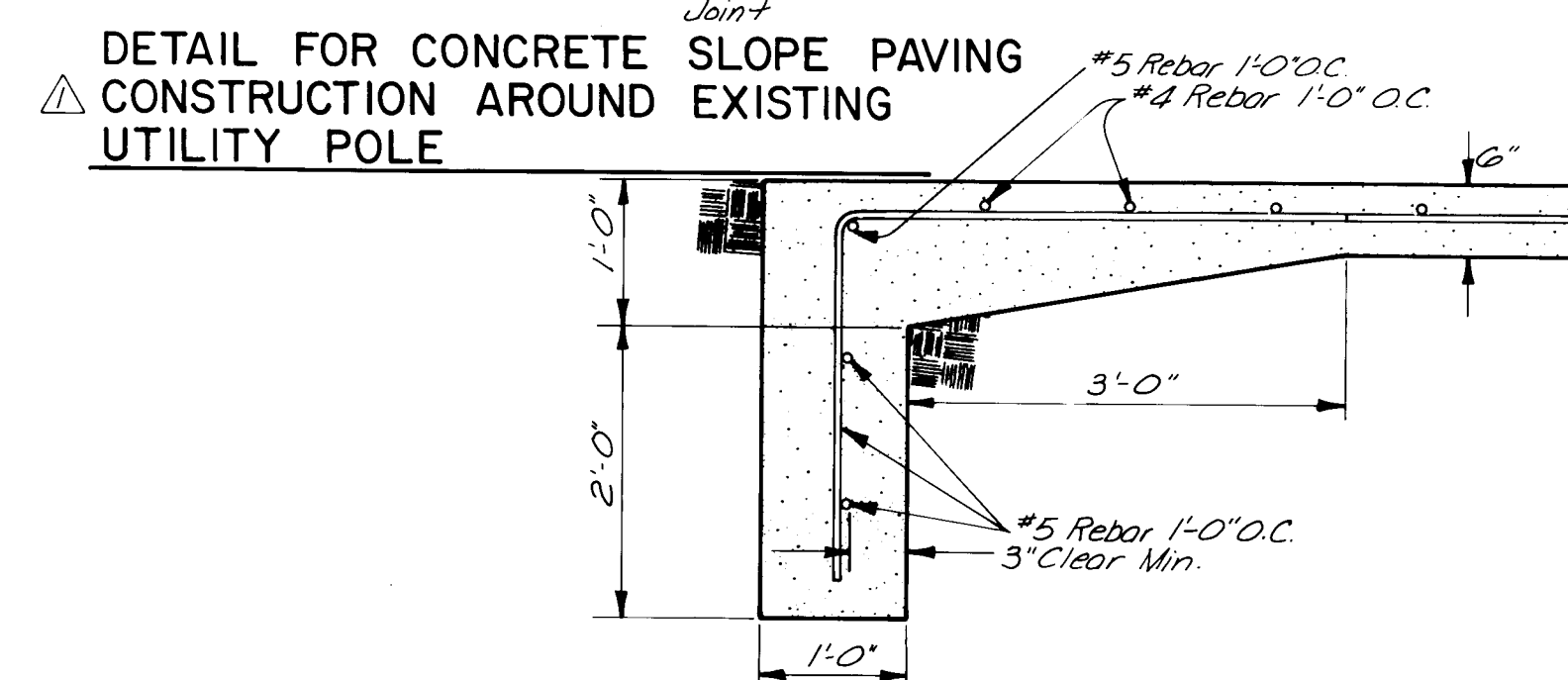
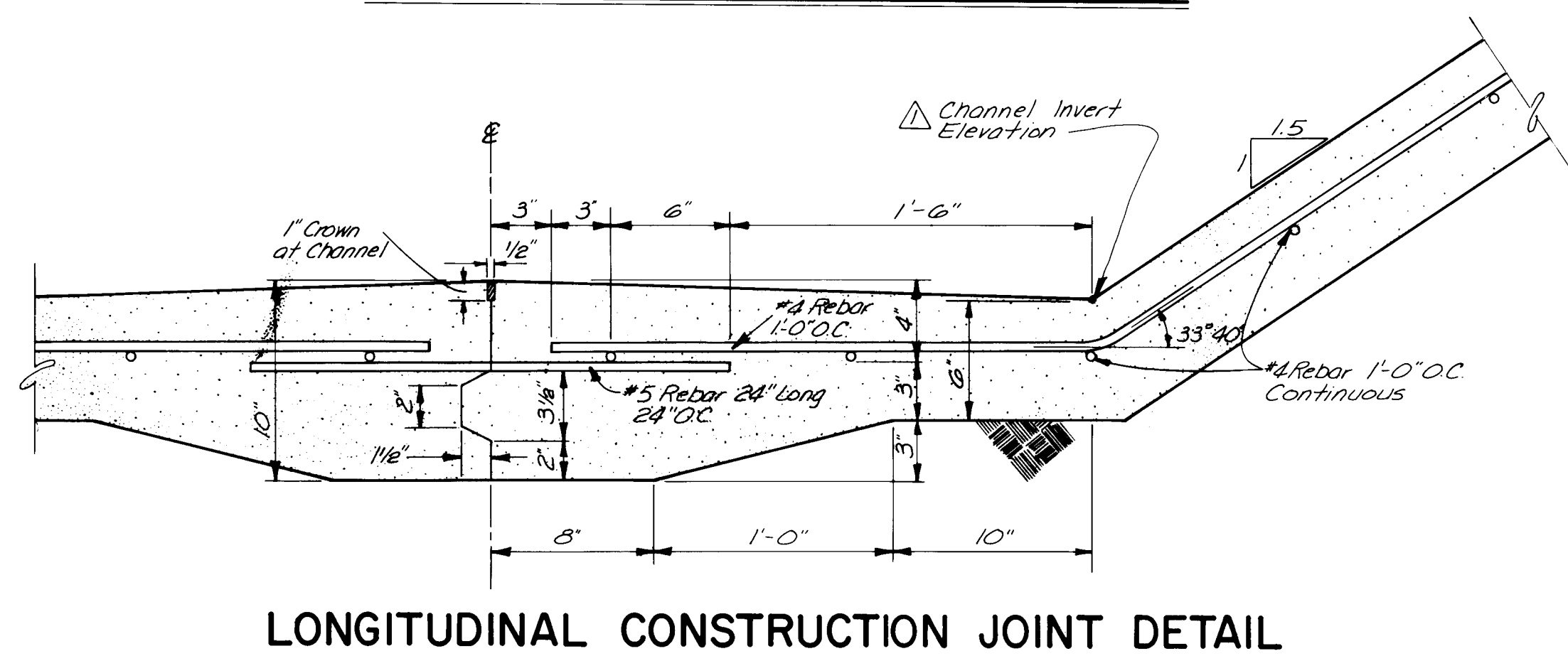
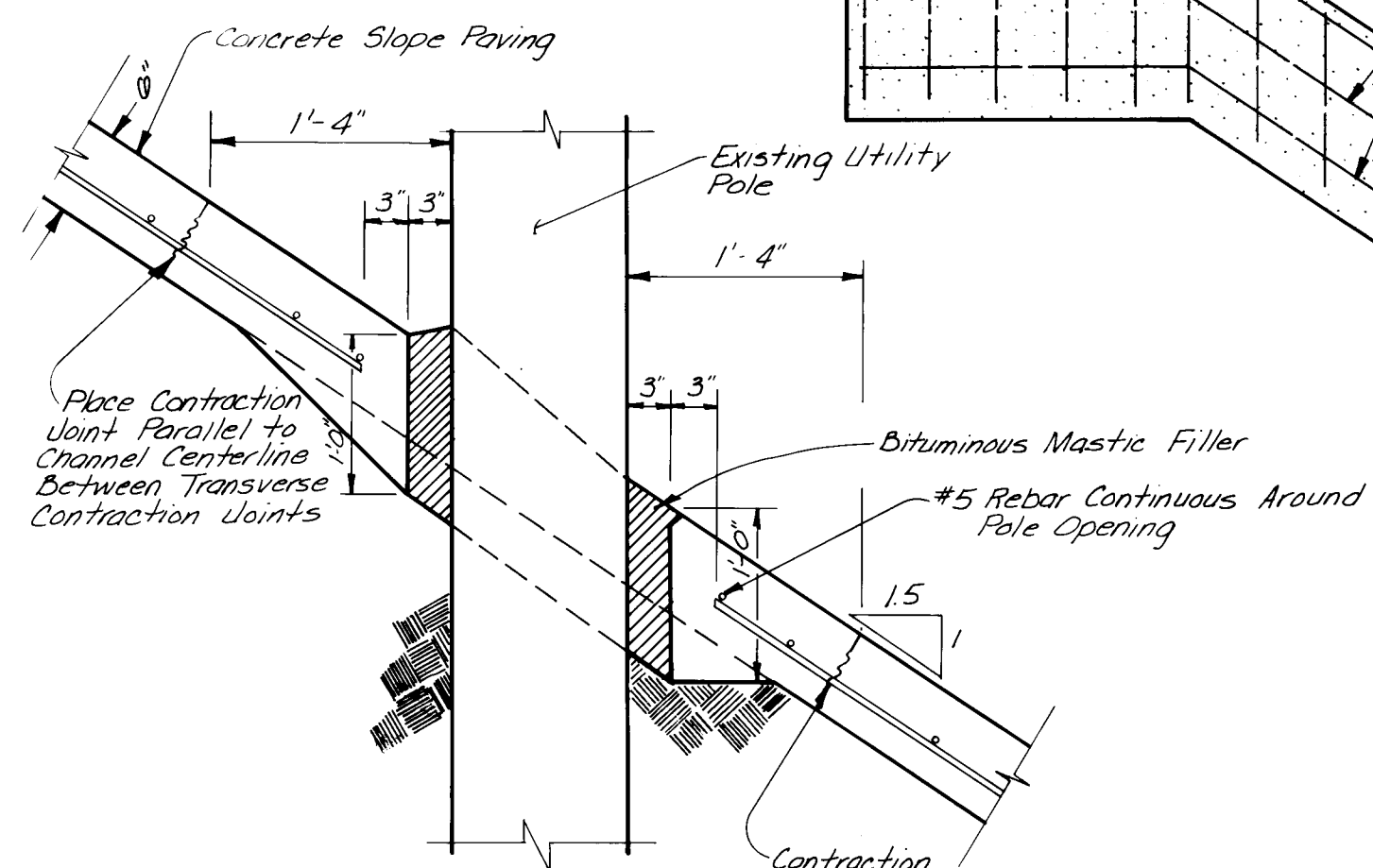
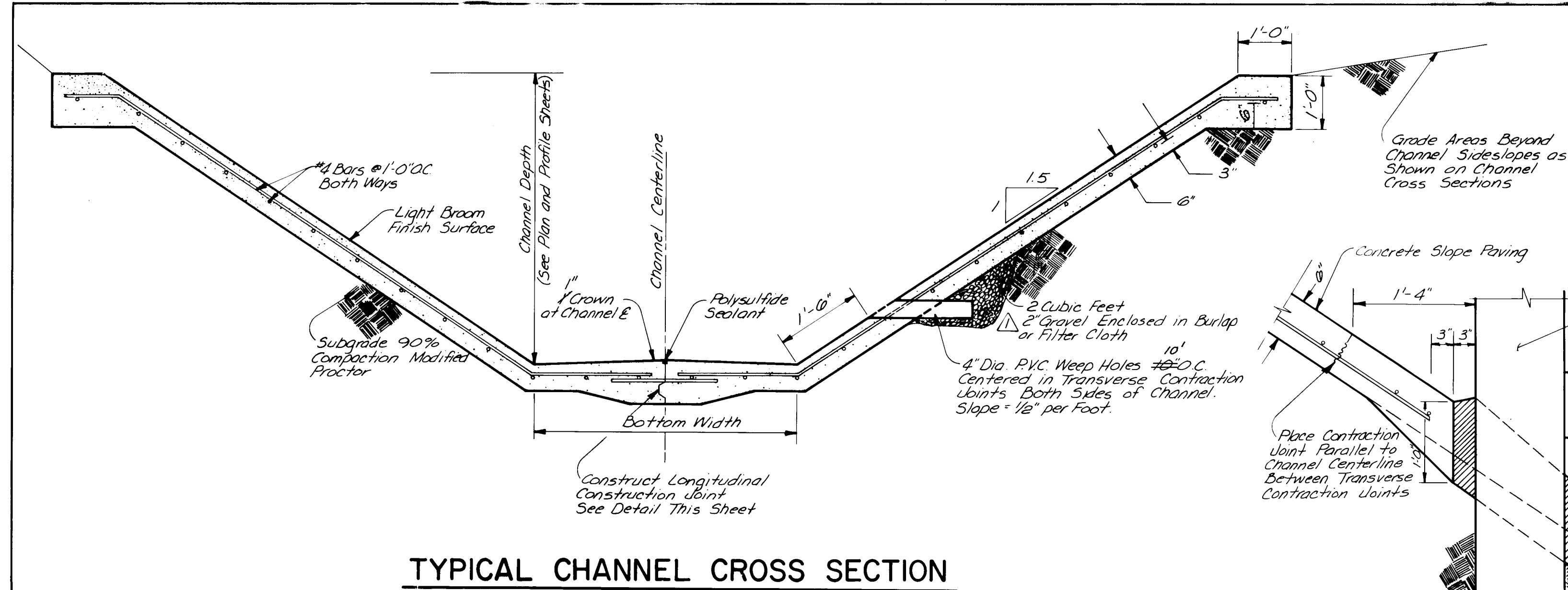


APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
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2891

SCALE:
AS SHOWN

DRAWING NO.	3	4	5	6	7	8	9	10	11	12	SHEET 9 OF 17
	21	28	91	09	81						



Notes:

- Notes:
1. Concrete shall be 3000 PSI, 28 day concrete with maximum aggregate size of $\frac{3}{4}$ " as stated in the specifications.
 2. All steel shall be Grade 40 deformed bars as called for in the specifications unless otherwise noted.
 3. All exposed edges shall have a 1" chamfer.
 4. Areas beyond top of channel sideslopes are to be graded as indicated by the cross sections.
 5. All exposed concrete slope paving surfaces shall have a light broomed finish perpendicular to direction of flow.

 PVC WATER STOP

PREPARED UNDER THE
DIRECTION OF

C. F. H. S.
8-19-80

PROJECT NUMBER

2891

SCALE:
NO SCALE

CITY OF ALBUQUERQUE

TITLE: **COPPER CHANNEL**
TRAPEZOIDAL CHANNEL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
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DRAWING NO. 1 2 3 4 5 6 7 8 9 10 11 SHEET 10 OF 17

[illegible]

AS-BUILT INFORMATION	
CONTRACTOR	
WORK DONE BY	DATE
SUPERVISOR'S	DATE
ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
REVISIONS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

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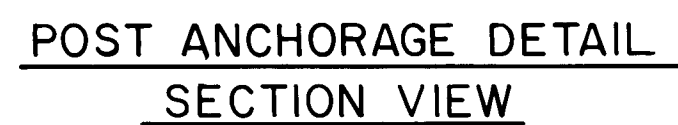
QUERQUE			
ANNEL NEL DETAILS			
APPROVALS	ENGINEER	DATE	
SHEET 10		OF 17	

BRINING 44.131 45.000

NO SCALE



SECTION A-A



NO SCALE



NO SCALE



1. ALL MATERIALS & WORKSMANSHIP SHALL CONFORM TO NEW MEXICO STANDARDS FOR PUBLIC WORKS CONSTRUCTION 1979 5TH EDITION.
2. DESIGN IN ACCORDANCE WITH A.A.S.H.O. INTERM SPECIFICATION 164) AND B.S.P. CIR. MEMO DATED FEB. 16, 1965.
3. ALL RAILS TO BE PARALLEL TO GRADE. ALL RAIL POSTS TO BE SET VERTICAL.
4. DETAILS SHOWN ARE FOR STEEL ONLY.
5. A METAL BRIDGE RAILING AND GUTTER CHANNEL OF AN ALTERNATE DESIGN IN EITHER ALUMINUM OR STEEL MAY BE SUBSTITUTED FOR ANY OF THE RAILING TYPES SHOWN ON THIS SHEET PROVIDED THE ALTERNATE DESIGN IS APPROVED BY THE ENGINEER BEFORE FABRICATION.
6. METAL BRIDGE RAILINGS WILL BE PAID FOR AT THE UNIT PRICE BID PER FOOT. BID PRICE SHALL INCLUDE ALL RAILS, POSTS, SPLICES, SHIMS, GUTTER CHANNEL, CALKING, PLATES, BOLTS, NUTS, AND WASHERS NECESSARY FOR THE INSTALLATION OF THE RAIL AND GUTTER.
7. TYPE B RAIL IS FOR SIDEWALK INSTALLATION.
8. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.O. DESIGNATION N-164.
9. STEEL RAIL TUBES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION A500 OR A501.
10. POST SPACING SHOWN ON THE PLANS IS BASED ON THE USE OF 5x3 CONFORMING TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION A500 GRADE B. IF THE CONTRACTOR ELECTS TO USE TUBES OF ANOTHER GRADE OR DESIGNATION, THE POST SPACING SHOWN ON THE PLANS WILL BE REVISED TO COMPLY WITH MAXIMUM SPACING REGULATIONS.
11. LONGJUDICIAL RAIL MEMBERS MAY BE WELDED TO OBTAIN FABRICATED LENGTH EXTENDING OVER A MINIMUM OF FOUR POSTS. OR RAILING MAY BE FIELD WELDED AND END LENGTHS PROVIDED IT IS FIELD WELDED INTO CONTINUOUS LENGTHS EXTENDING OF A MINIMUM OF FOUR POSTS. FIELD WELDING MAY BE SUBSTITUTED FOR SPICE DETAIL SHOWN AT ANY POINT EXCEPT EXPANSION JOINTS. NO TWO RAILS MAY BE SPLICED IN THE SAME SPAN. ALL SHOP AND FIELD WELDS IN LONGJUDICIAL MEMBERS MUST BE CORRECTLY A LIGNED WELDING SHALL BE DONE WITH ANY OF THE FOLLOWING ELECTRODES A.S.T.M. A233 CLASSIFICATION 60106, 60207, E7015, E7016, E7018, OR E7028.
12. POSTS AND RAILING SHALL BE FABRICATED ERECTED, AND PAINTED IN ACCORDANCE WITH SECTION 222.21 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1975 EDITION.
13. RD + POST HEIGHT AS SHOWN IN TABLE BELOW MINUS 3" - 6"
14. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS.

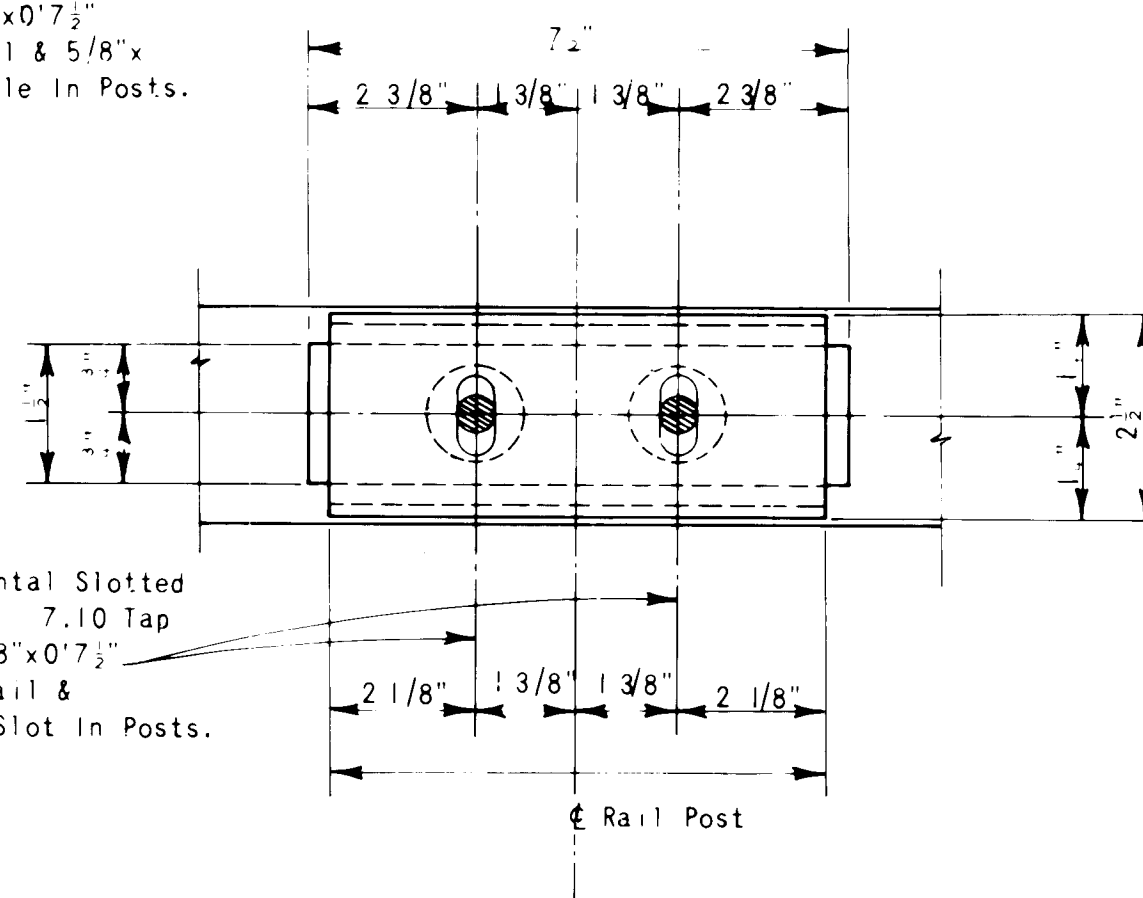
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Maximum Spacing	TYPE OF STEEL	A.S.T.M. DESIGNATION
	5" x 3"	3" x 3"
8'-6"	A501	A500 or A501
9'-2"	A500 Grade A	A500 or A501
10'-10"	A500 Grade B	A500 or A501

NO SCALE



SECTION C-C
NO SCALE

[illegible]

CITY OF ALBUQUERQUE

TITLE	COPPER CHANNEL BRIDGE RAIL DETAILS
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
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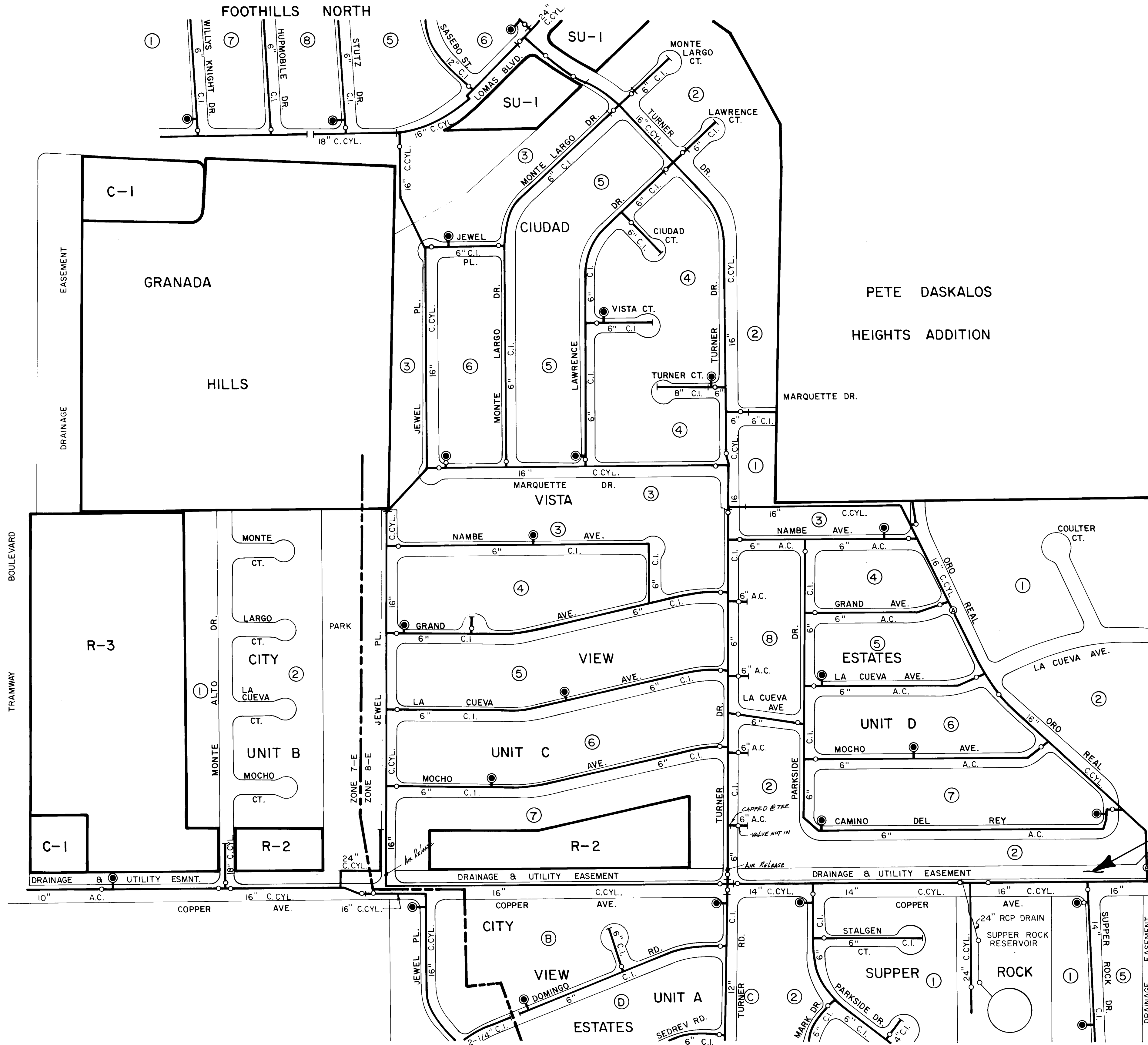
PREPARED UNDER THE
DIRECTION OF

PROJECT NUMBER

DRAWING NO.	26	28911186
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SHEET 11 OF 17

BRUNING 44 131 42181



COPPER CHANNEL
PROJECT LOCATION

WATER SYSTEM SCHEMATIC — COPPER AVENUE VICINITY

SCALE:
1" = 200' Approx.

PREPARED UNDER THE DIRECTION OF 		CITY OF ALBUQUERQUE			
TITLE: COPPER CHANNEL WATERLINE RELOCATION DETAIL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
PROJECT NUMBER 2891		DRAWING NO. 26 2891 1286			
		SHEET 12 OF 17			

REFERENCES		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
MAP NO. K-23	EST. NO.	W.O. NO.	NO.	BY	DATE	CONTRACTOR	NO.
						WORK DONE BY	DATE
						INSPECTED BY	DATE
						ACCEPTANCE BY	DATE
						VERIFICATION BY	DATE
						DRAWINGS CORRECTED BY	DATE
						MICRO-FILM INFORMATION	
						RECORDED BY	DATE
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ORIGINAL	SURVEY	DATE
NO.	PLOTTED	BY
NO.	NOTED	DATE
NO.	AREAS CHECKED	

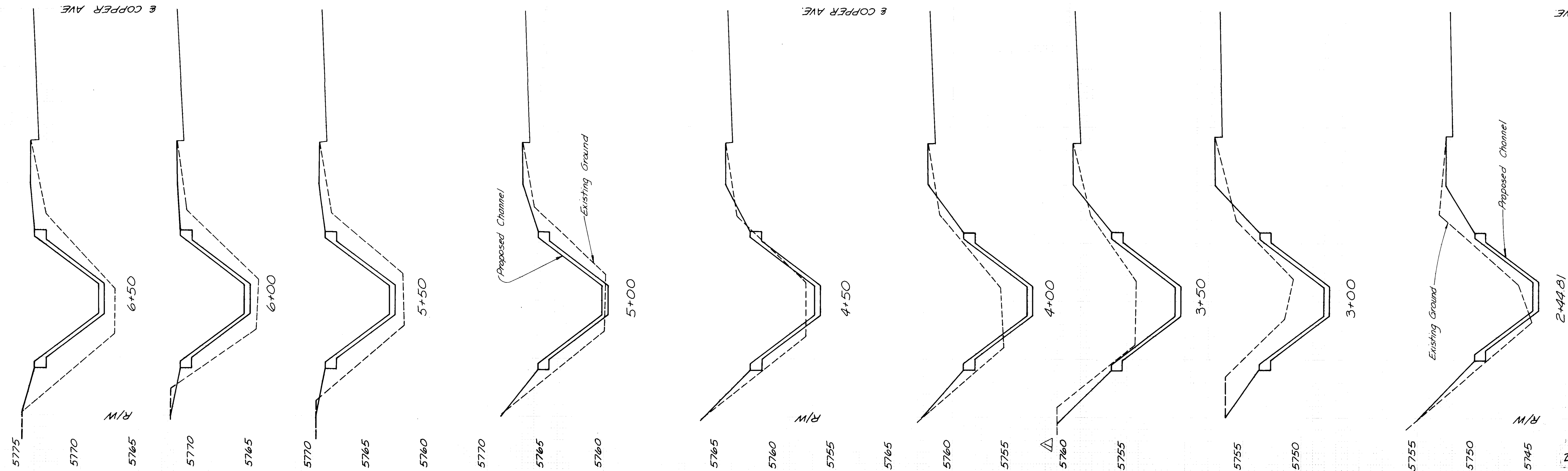
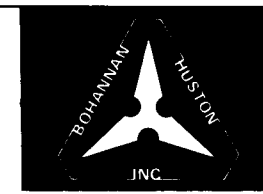


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

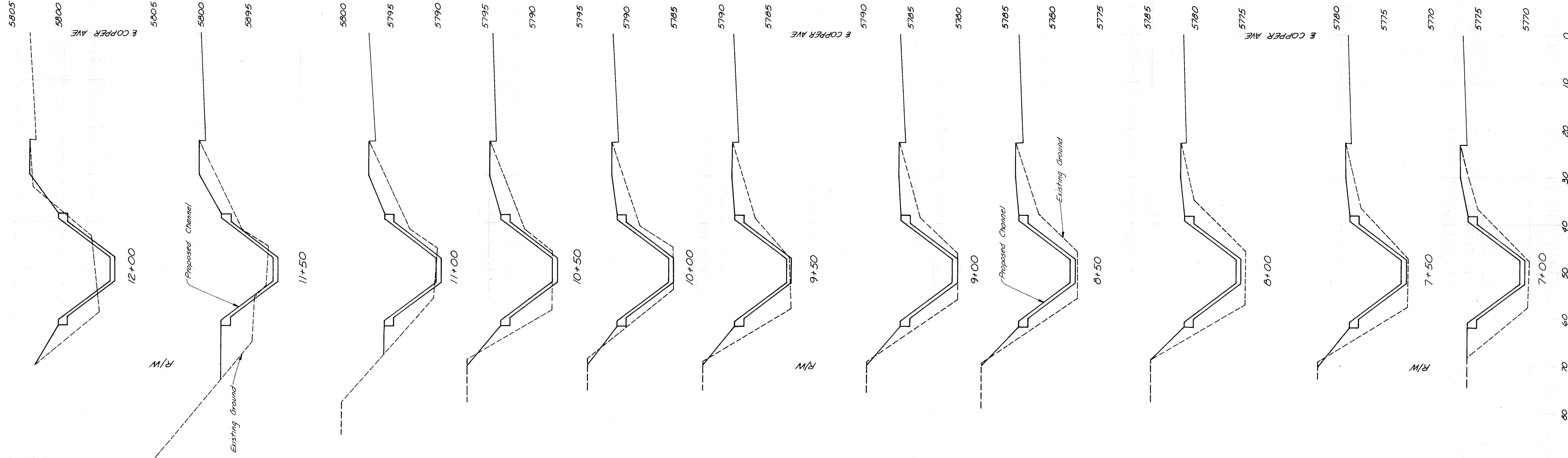
2891

Sheet 14 Of 17



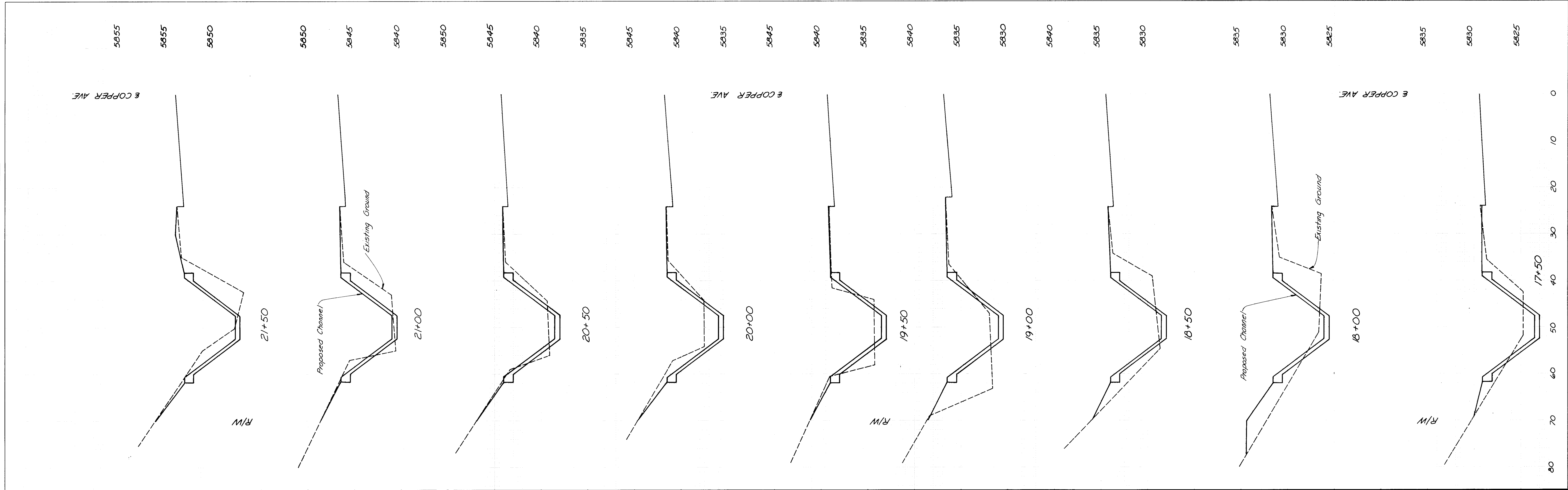
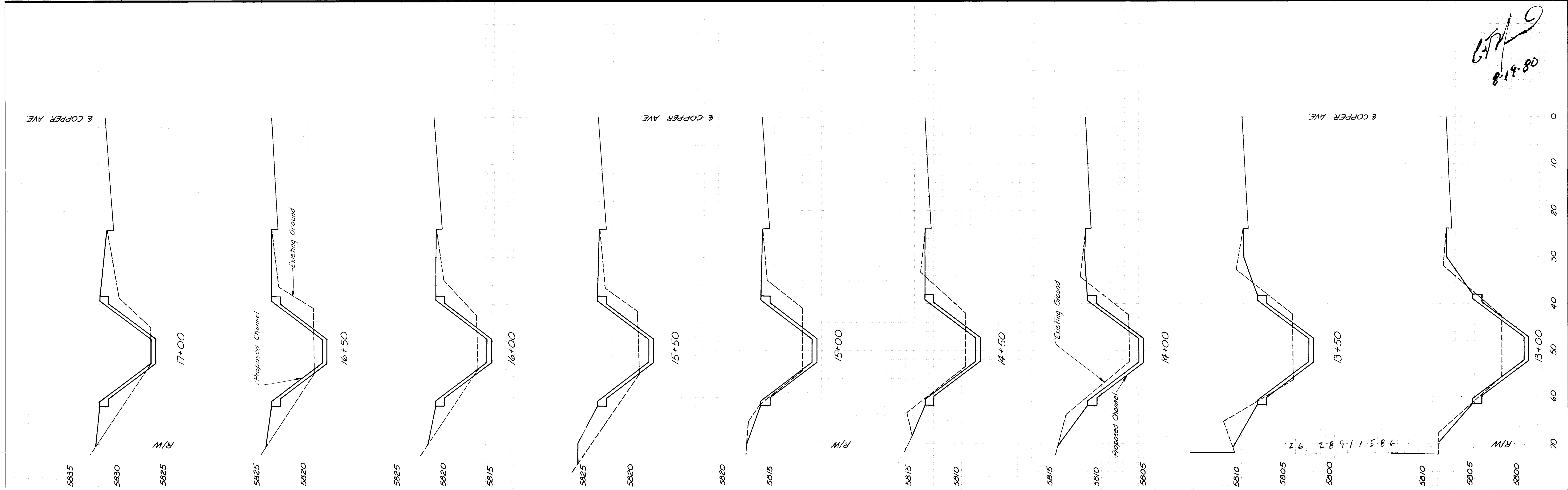
COPPER CHANNEL CROSS SECTIONS
STA. 2+44.81 to STA. 12+00.00
Job No. 79-104.2
Addendum #1 9-8-80

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NO.	AREAS CHECKED	



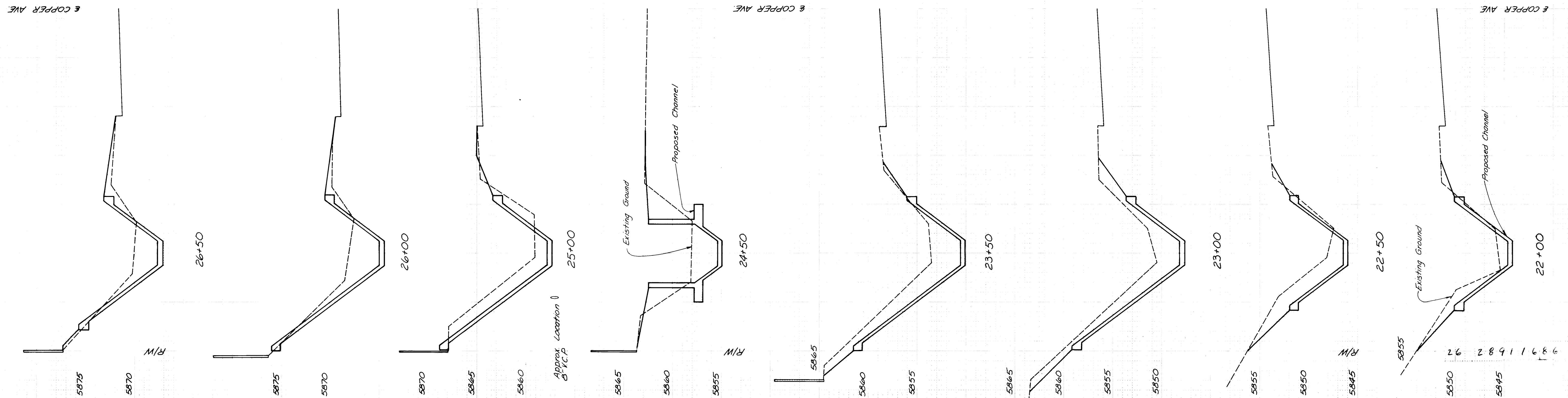
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NOTE BOOK	REVISIONS	
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ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	REVISIONS	
NO.	AREAS CHECKED	



ORIGINAL	SURVEY	BY	DATE
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08-6-80
8-19-80

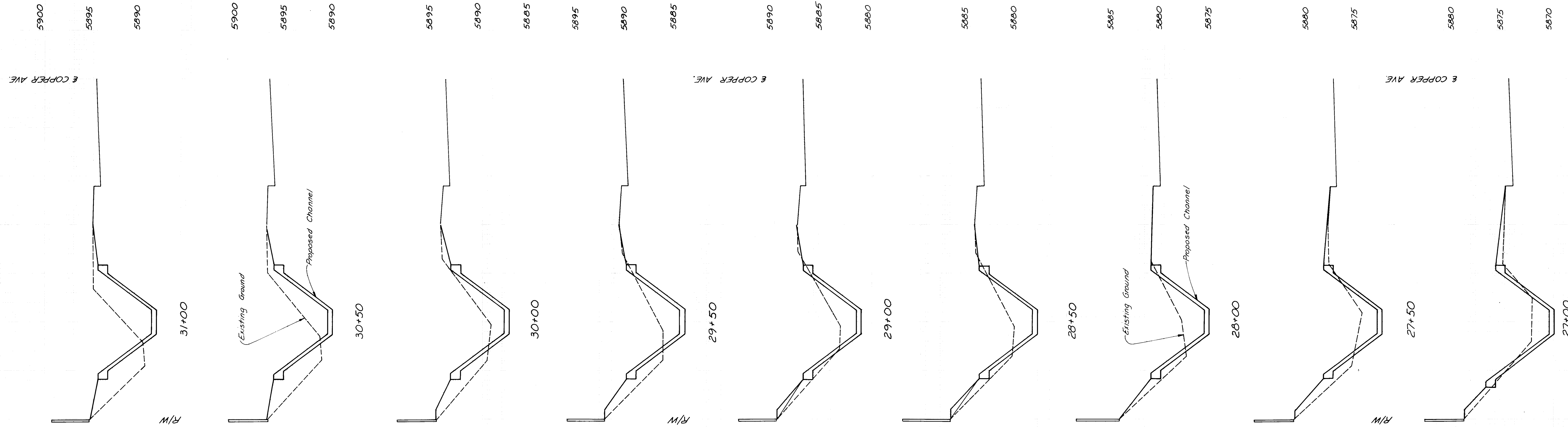
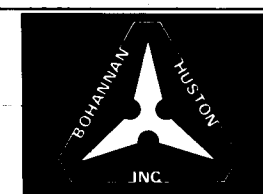


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

2891

Sheet 16 Of 17



COPPER CHANNEL CROSS SECTIONS
STA.22+00.00to STA.31+00.00
Job No. 79-104.2 Addendum #1 9-8-80

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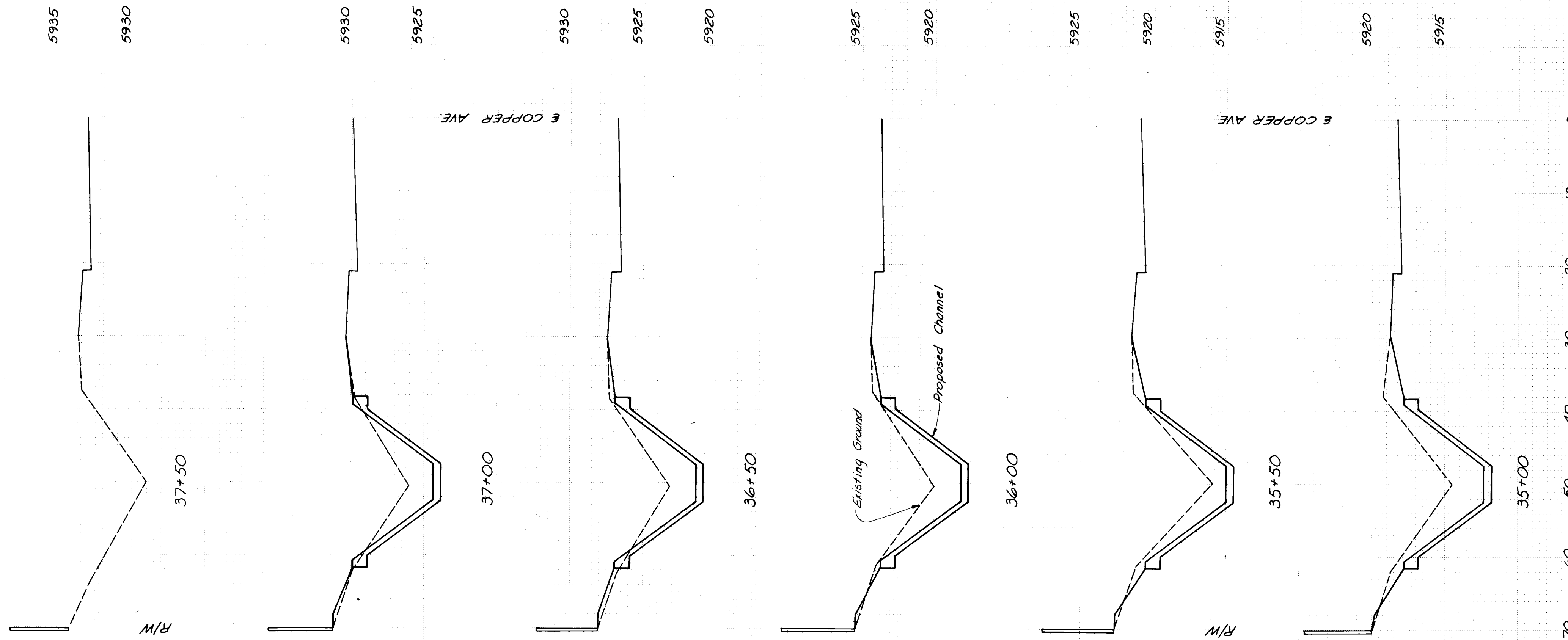
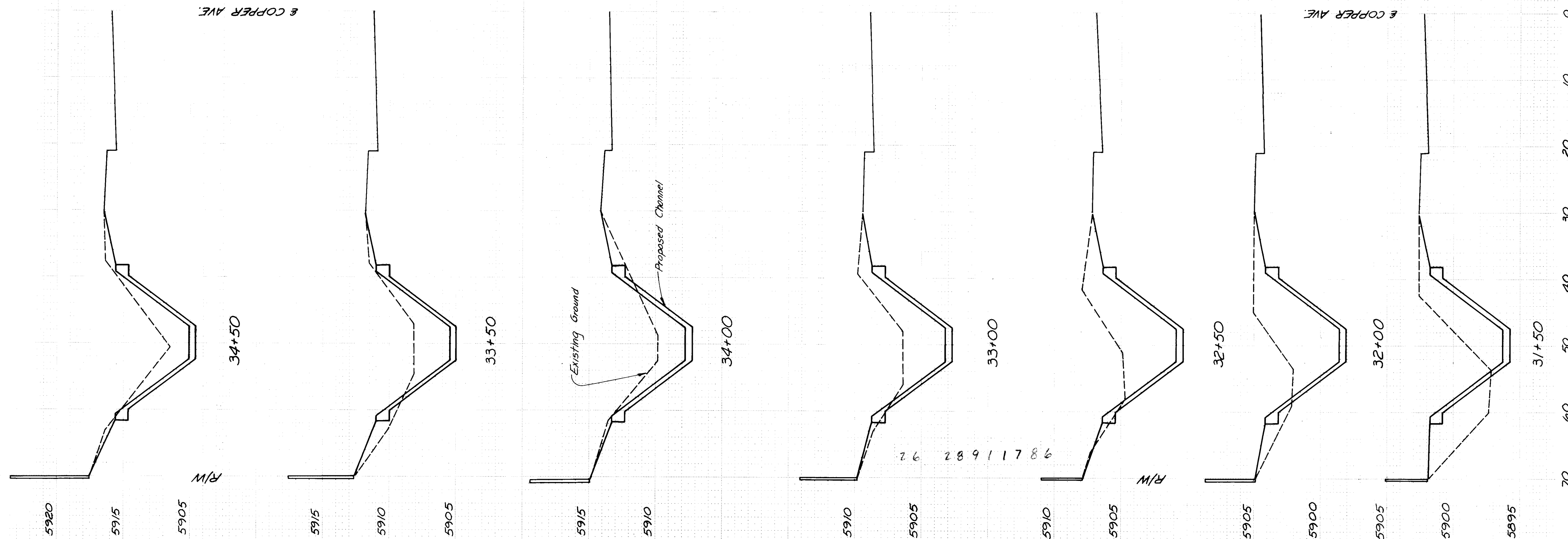
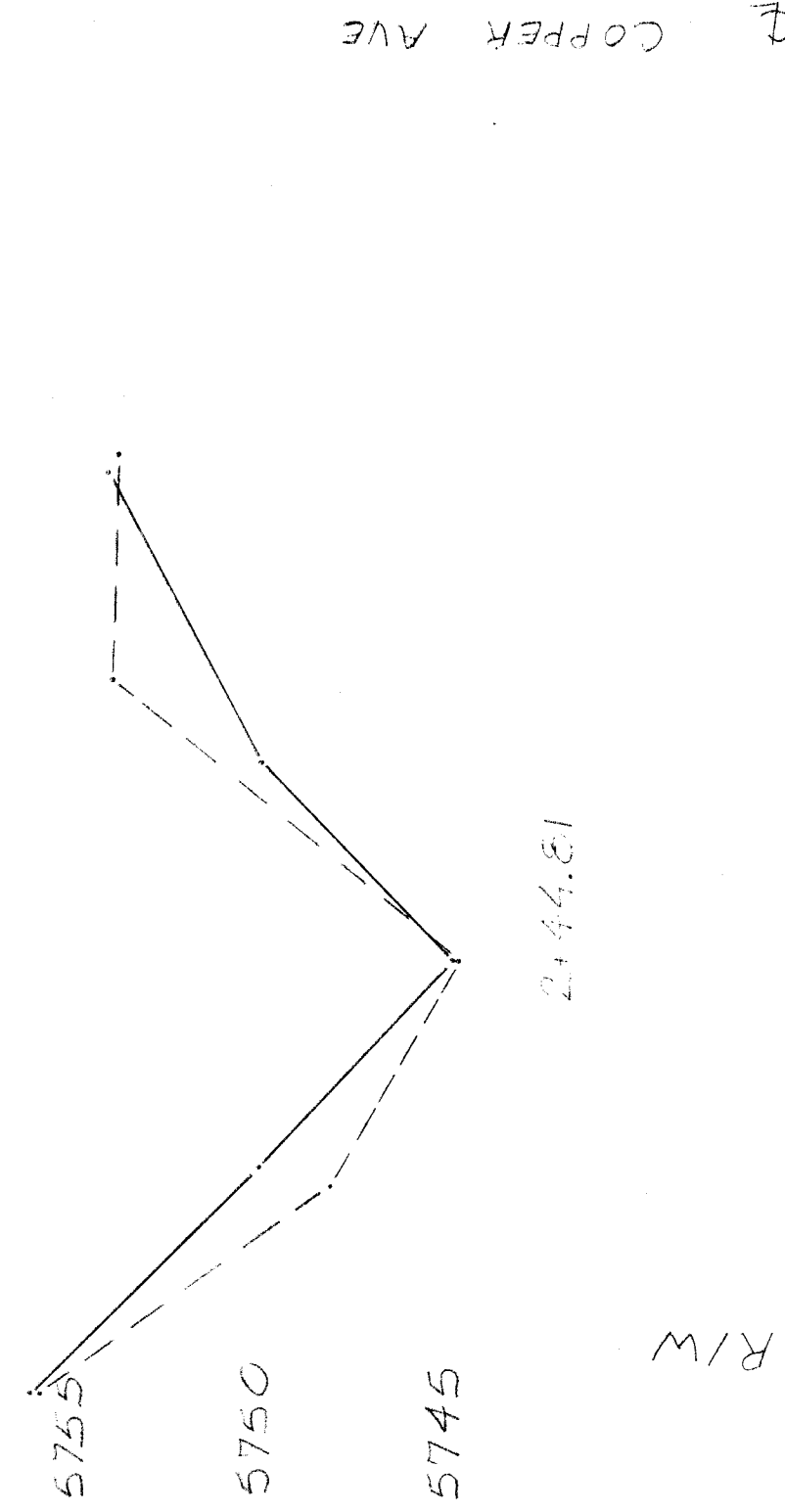
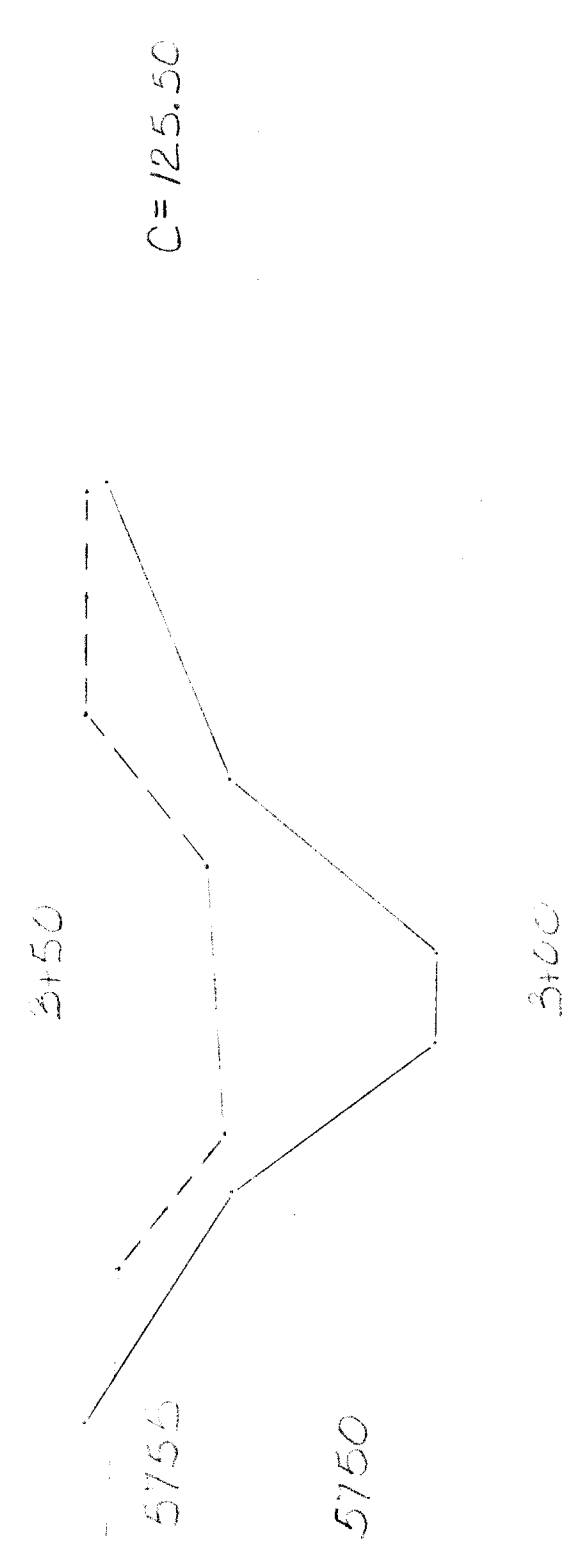
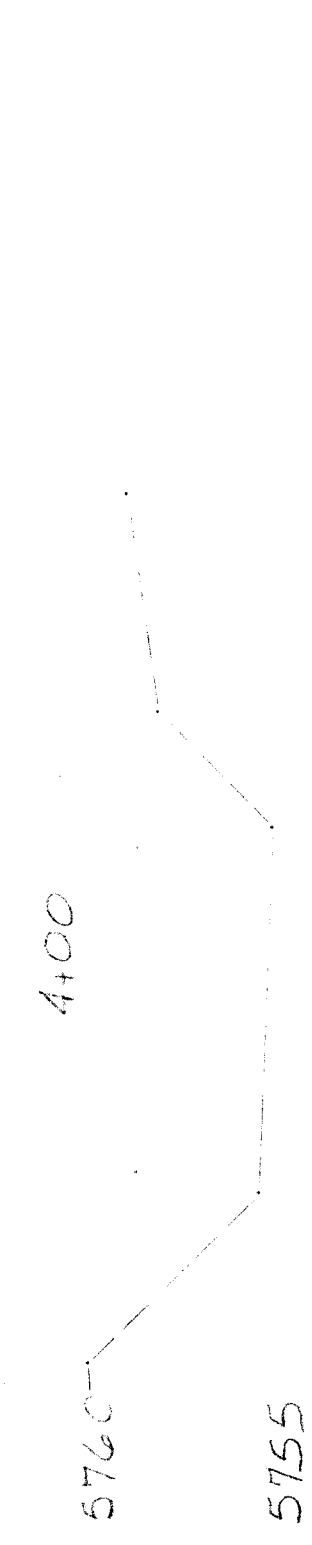
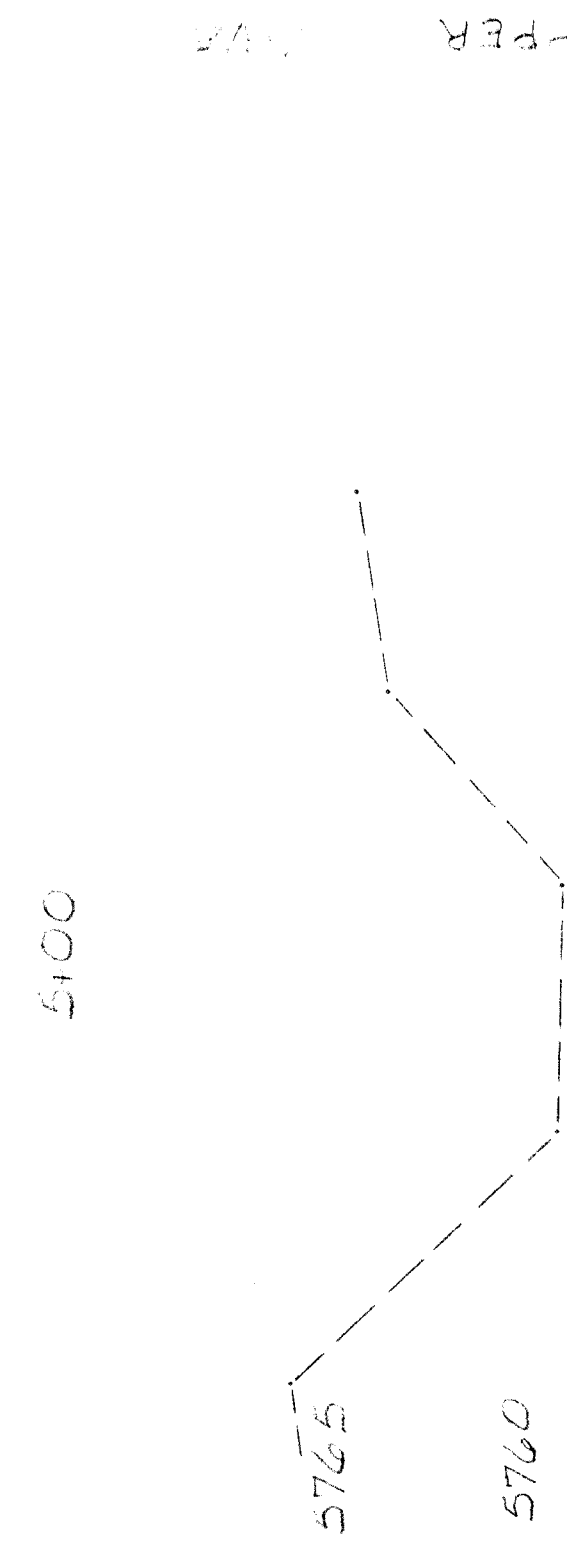


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

2891 Sheet 17 Of 17

COPPER CHANNEL CROSS SECTIONS
STA. 31+50.00 to STA. 37+50.00
Job No. 79-104.2 Addendum #1 9-8-80

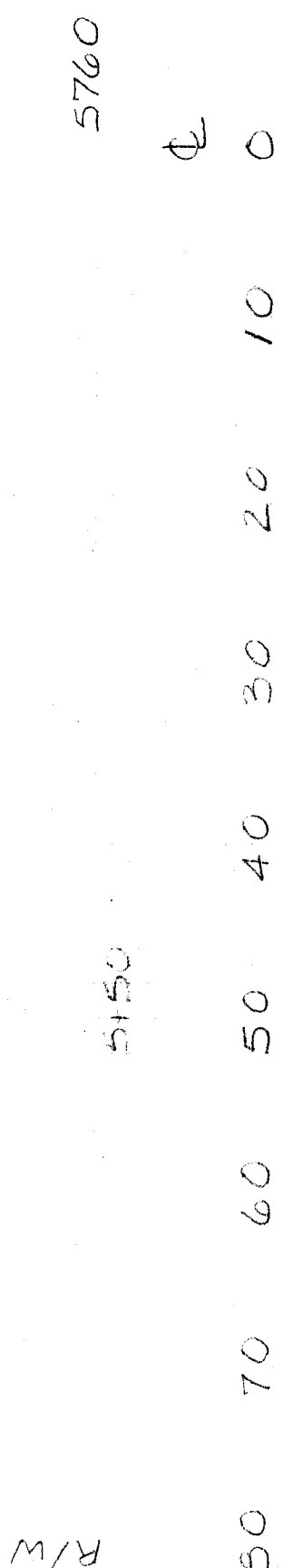
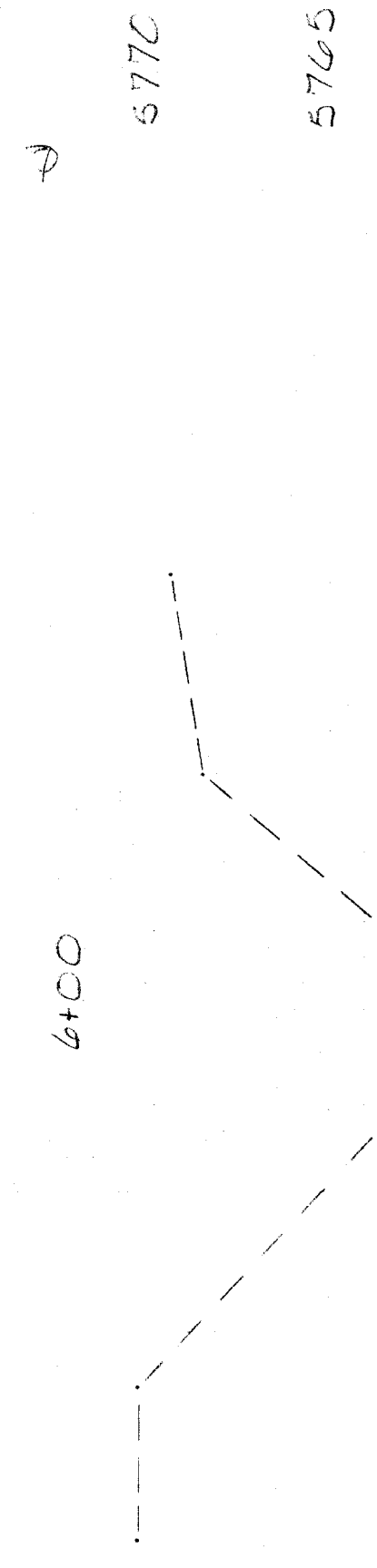
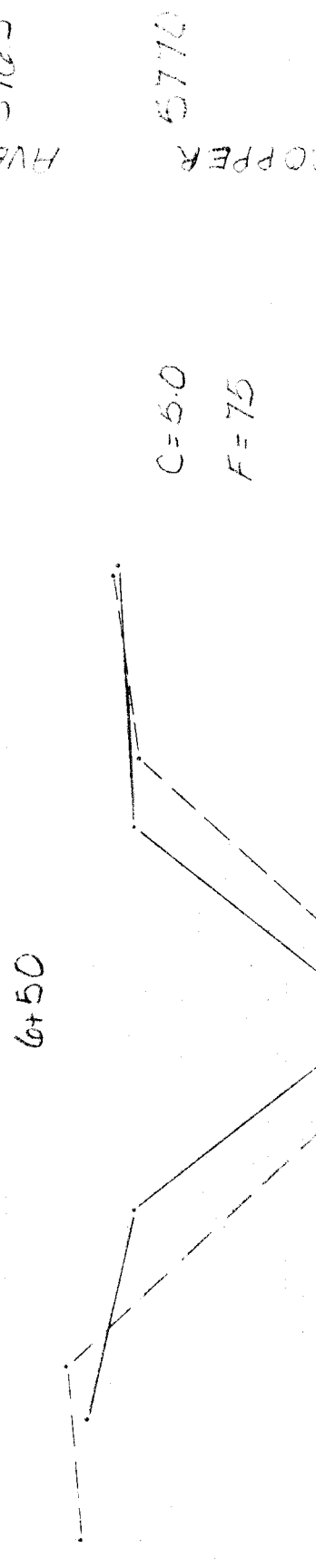
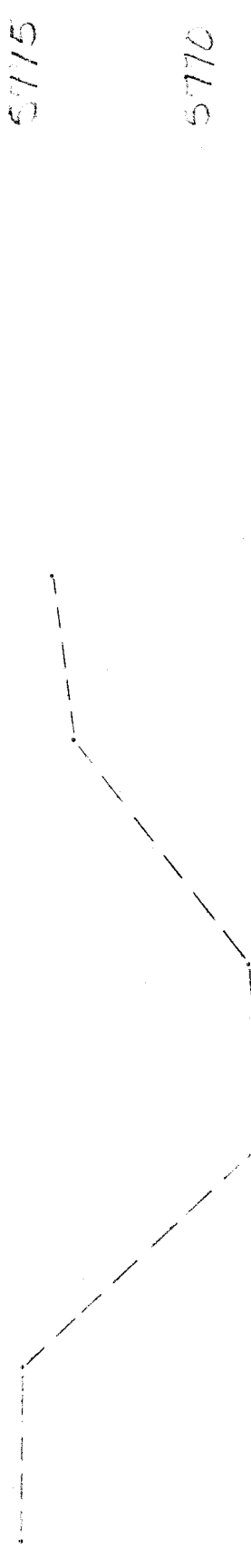
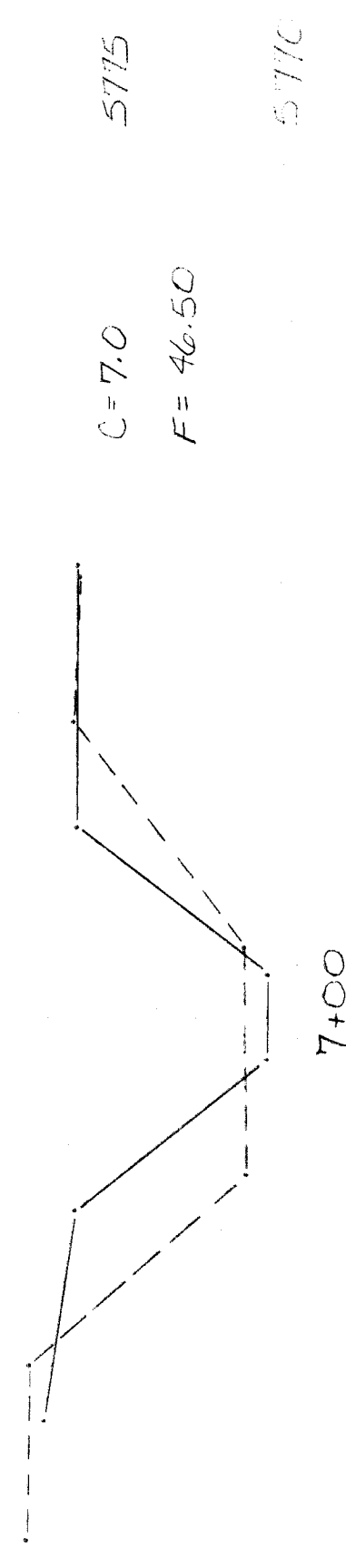
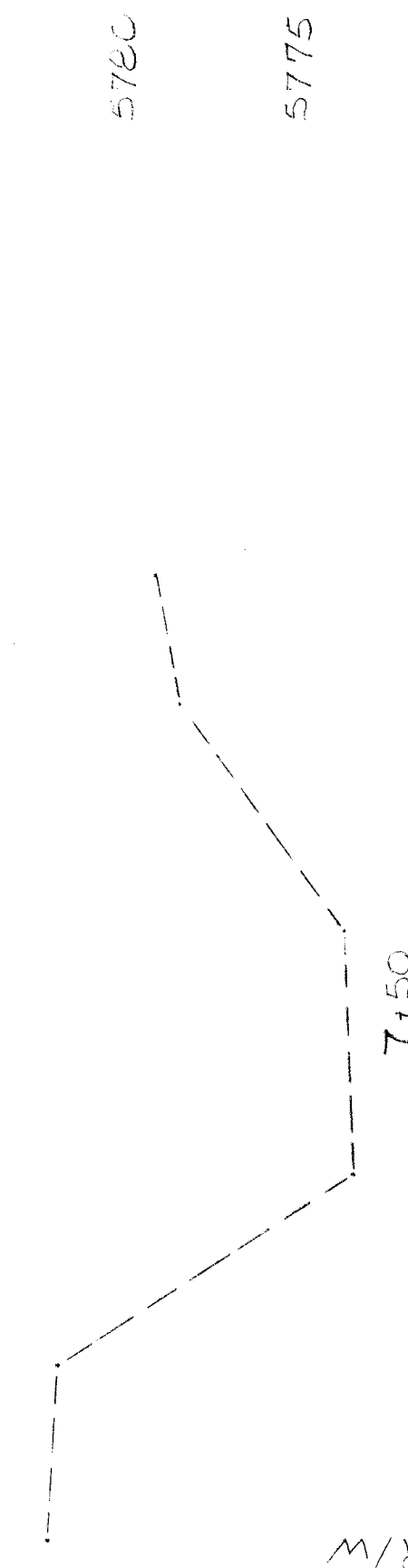
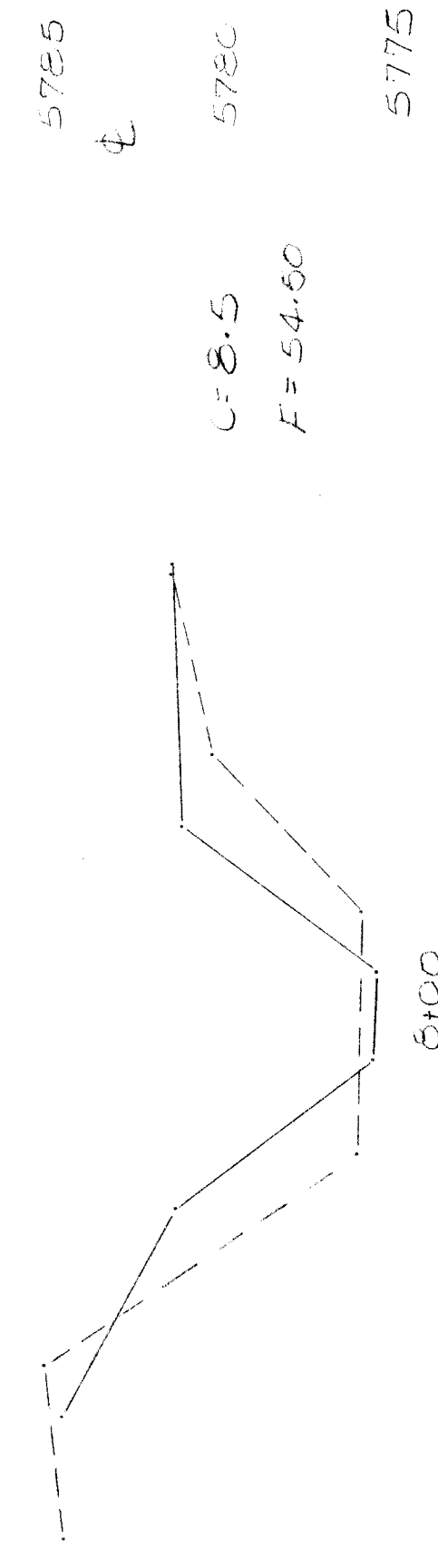
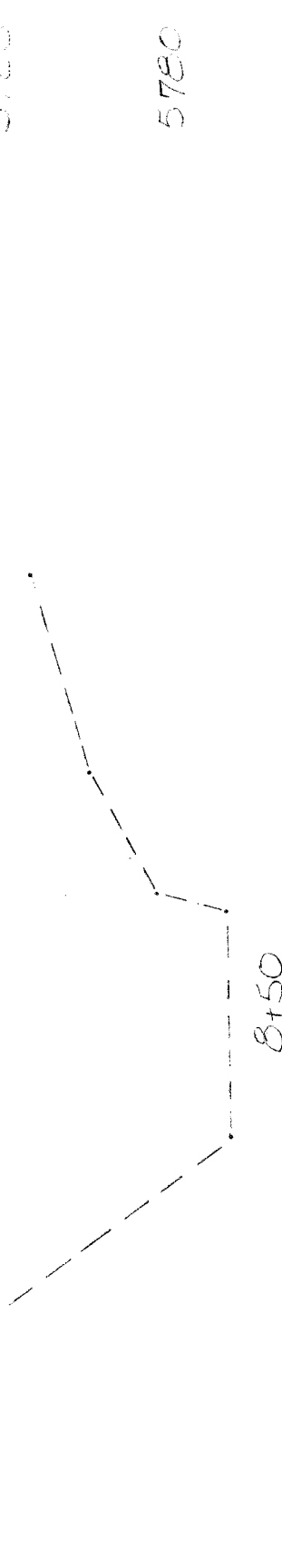
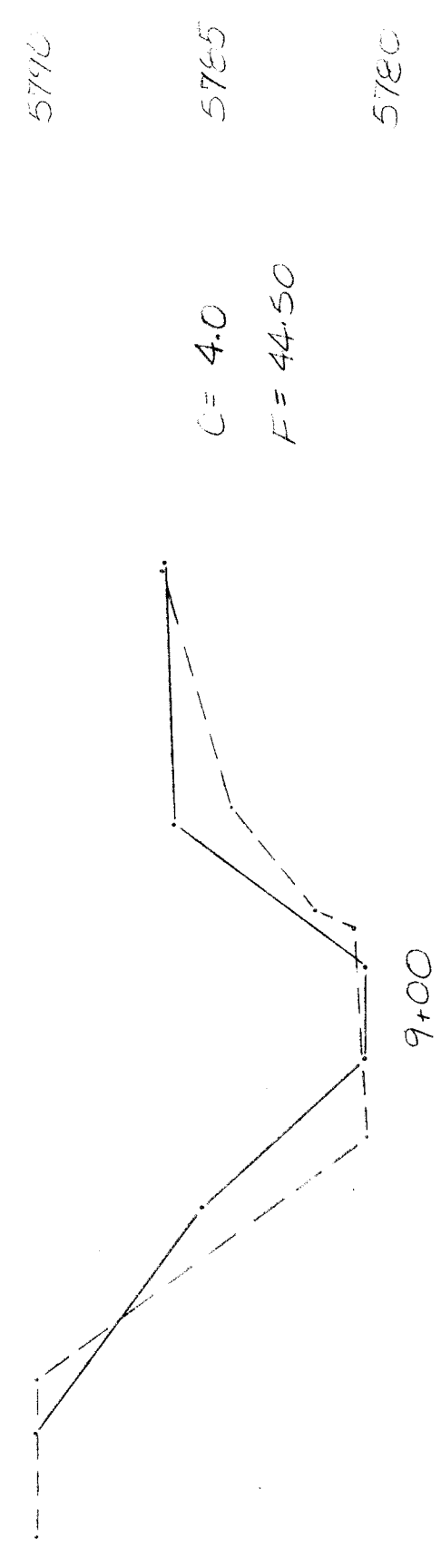
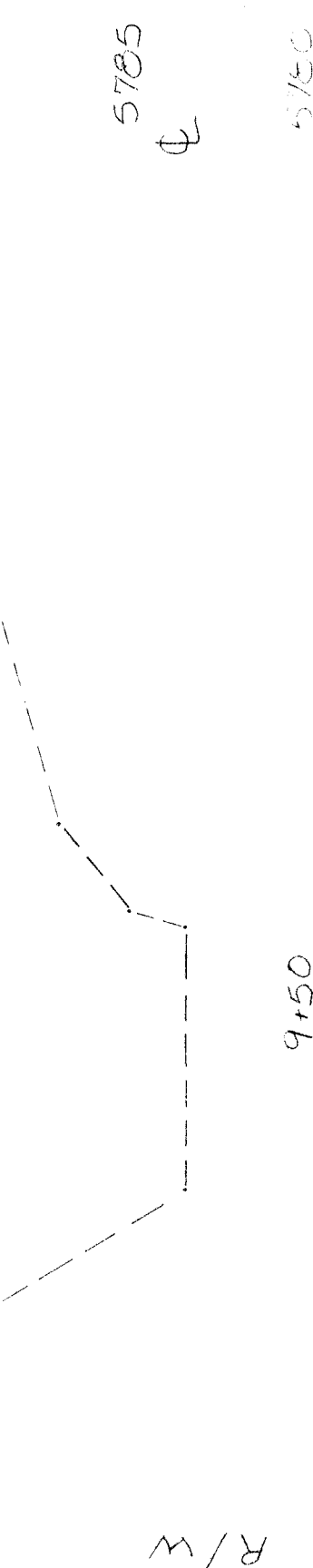
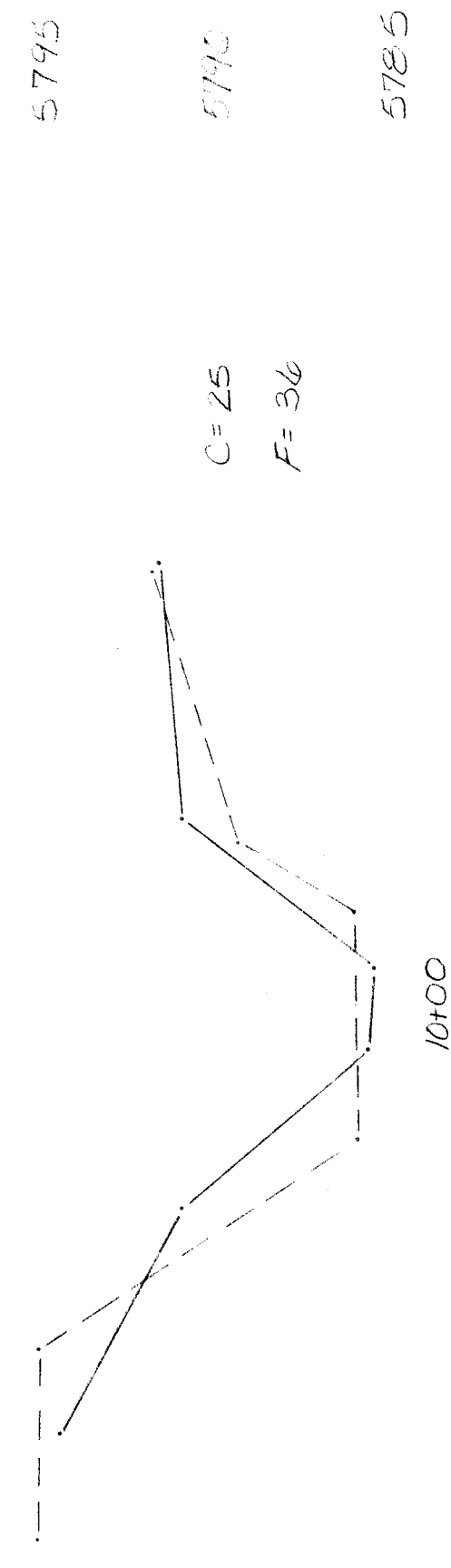
08-6-18
8/15/80



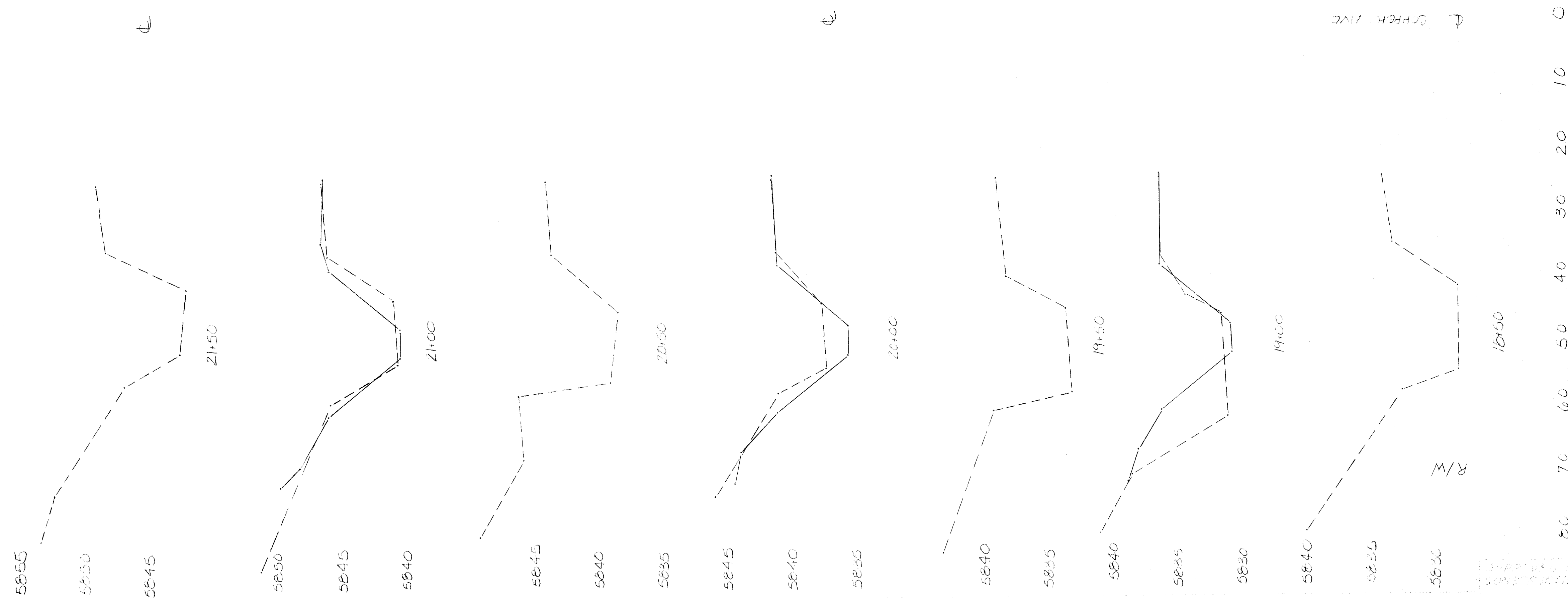
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INFORMATION USE
COPPER CHANNEL CROSS SECTIONS
STA. 2+44.51 TO STA. 10+00

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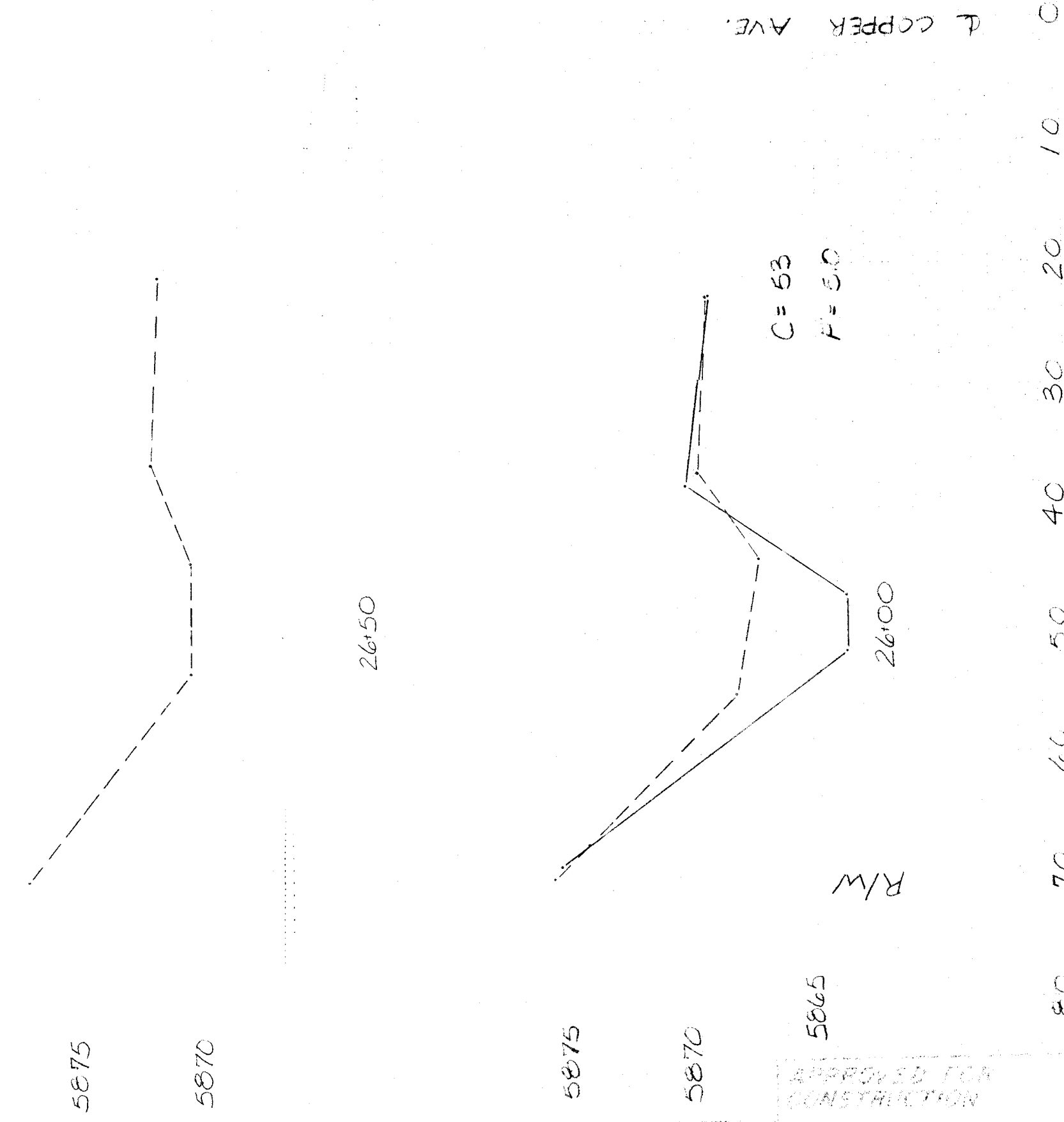
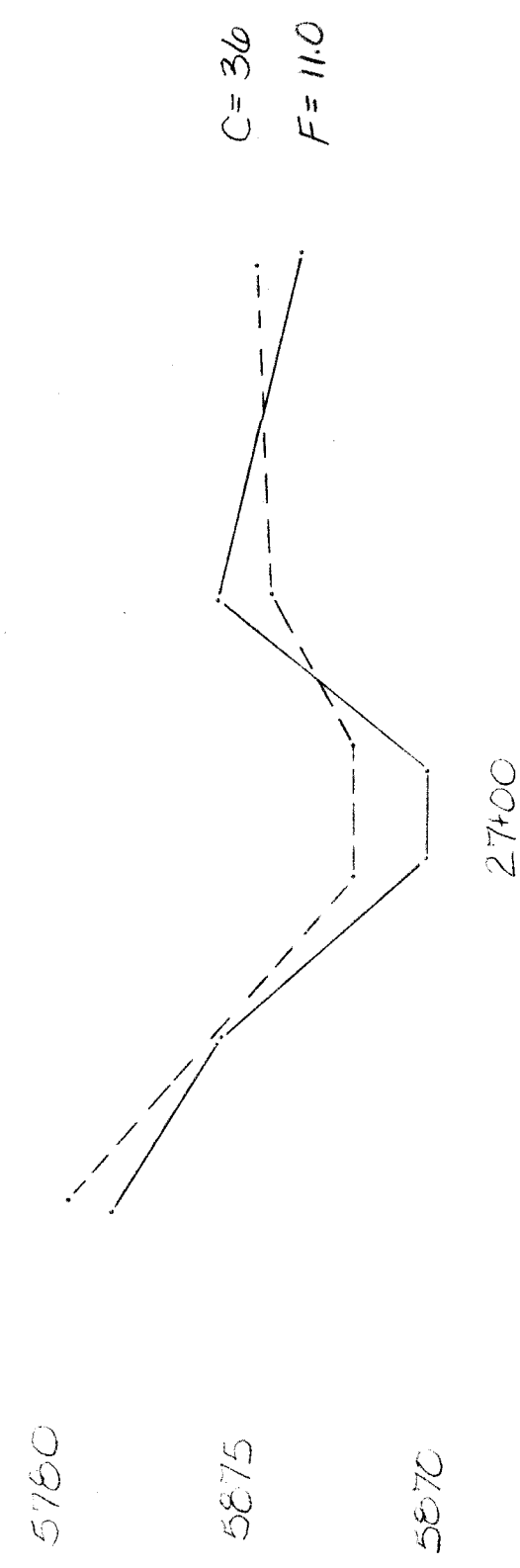
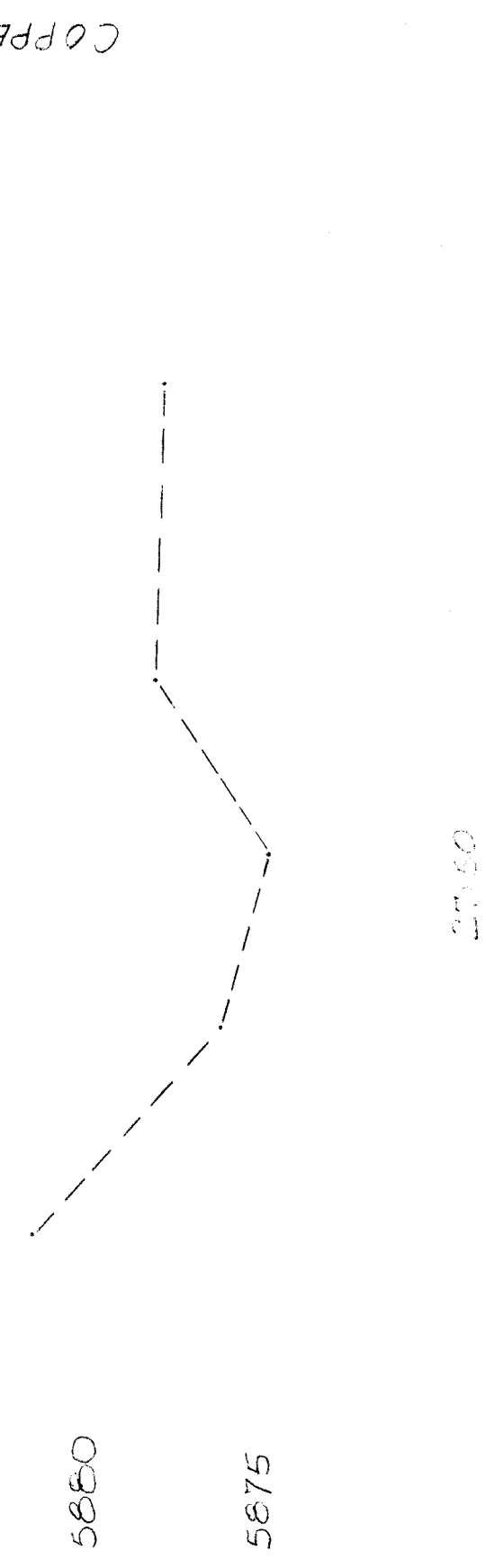
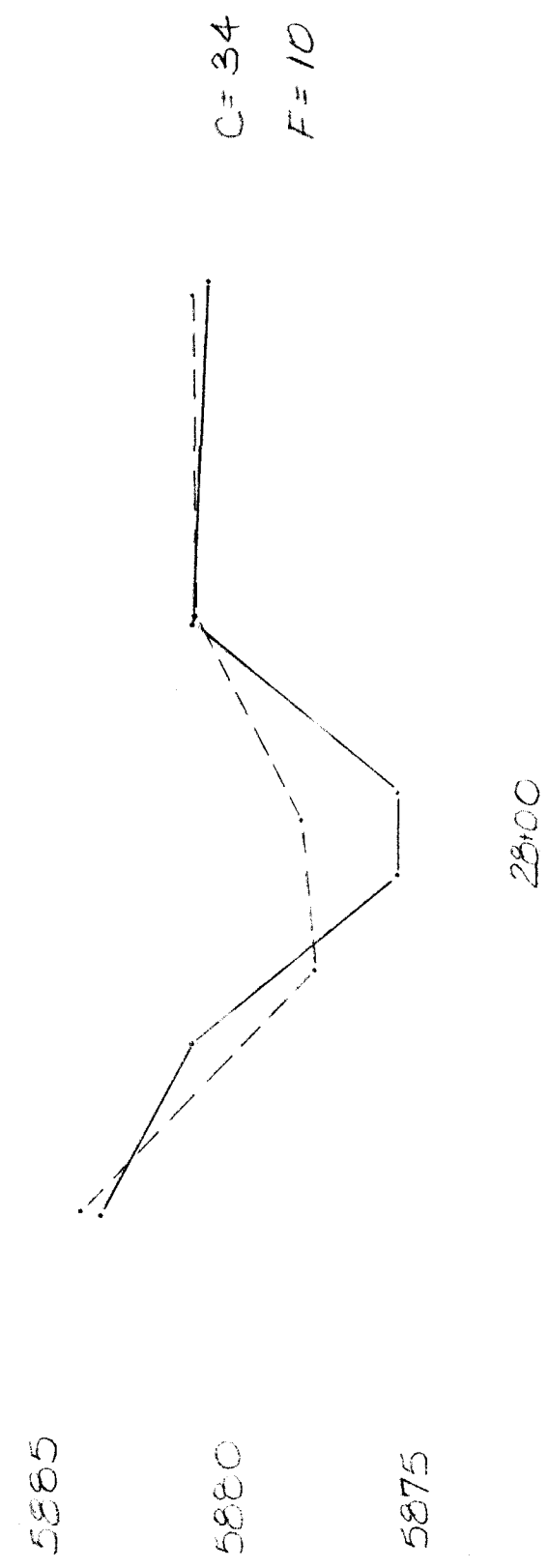
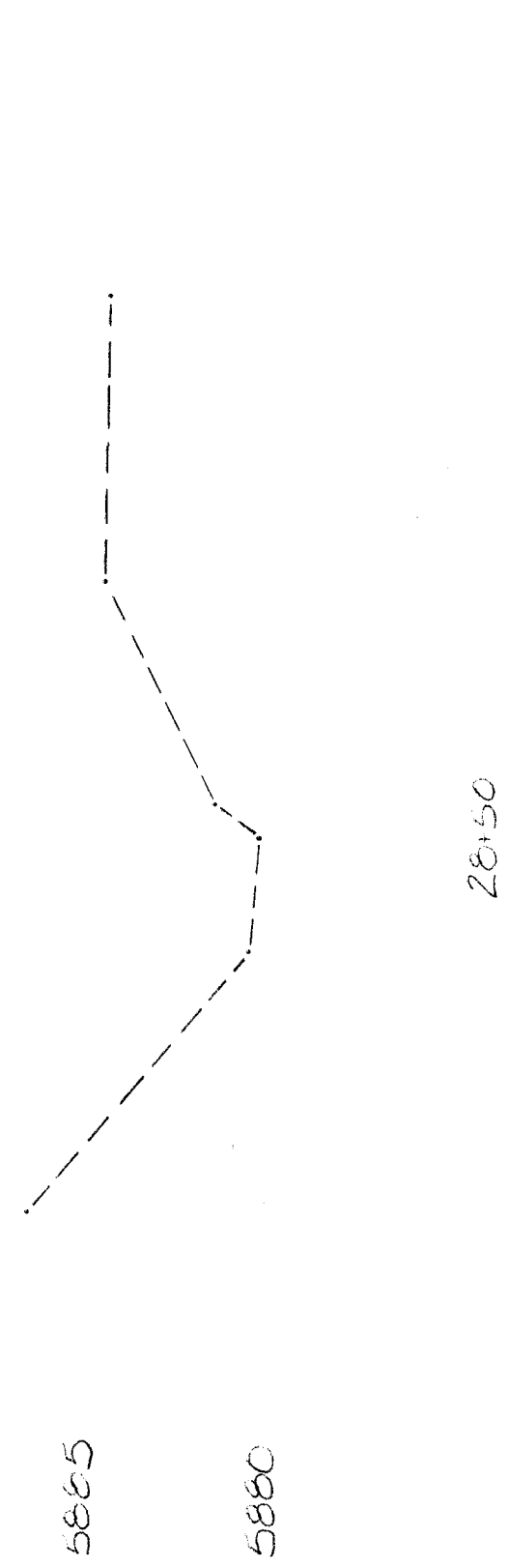
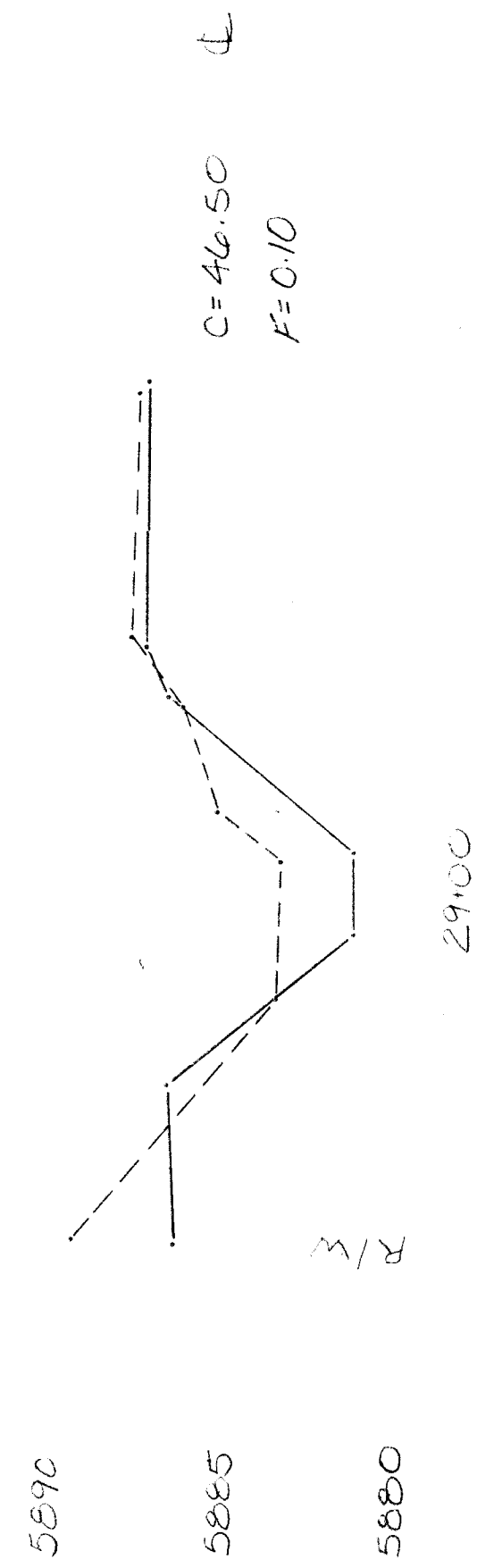


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CITY OF SEATTLE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
COPPER CHANNEL CROSS SECTIONS
STA. 18+50 TO STA. 25+50

26.28912086



FOR INFORMATION ONLY

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

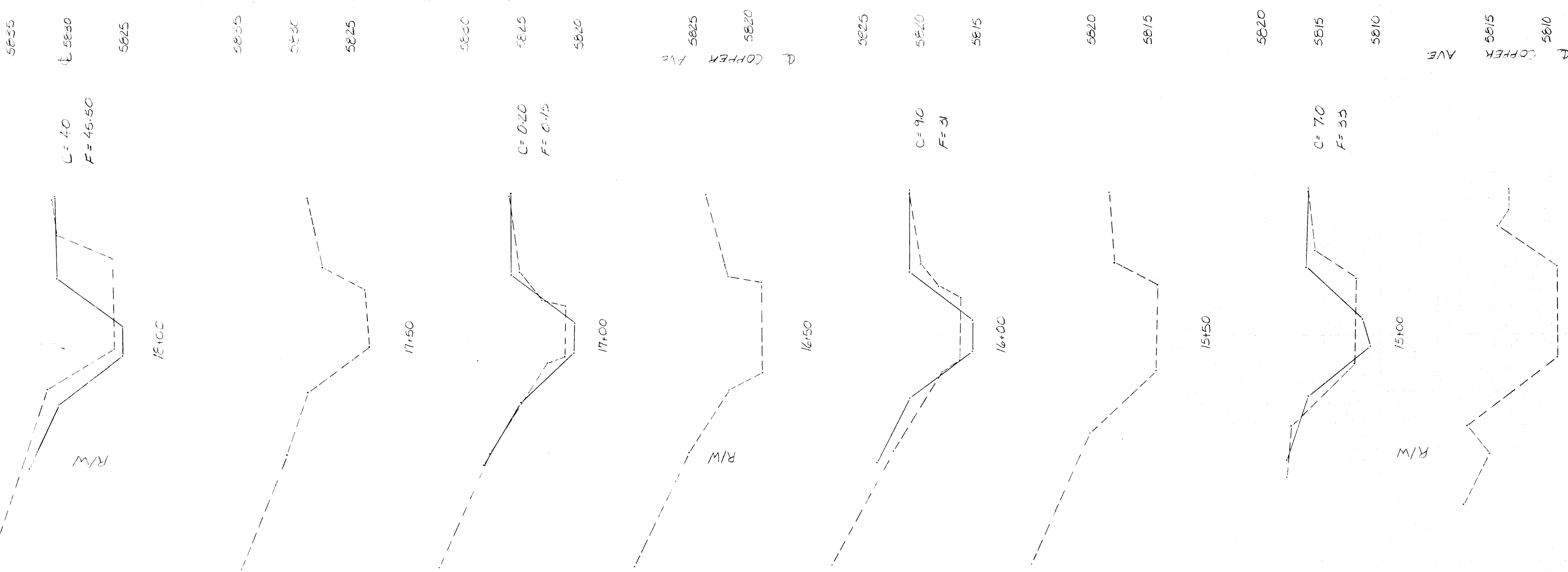
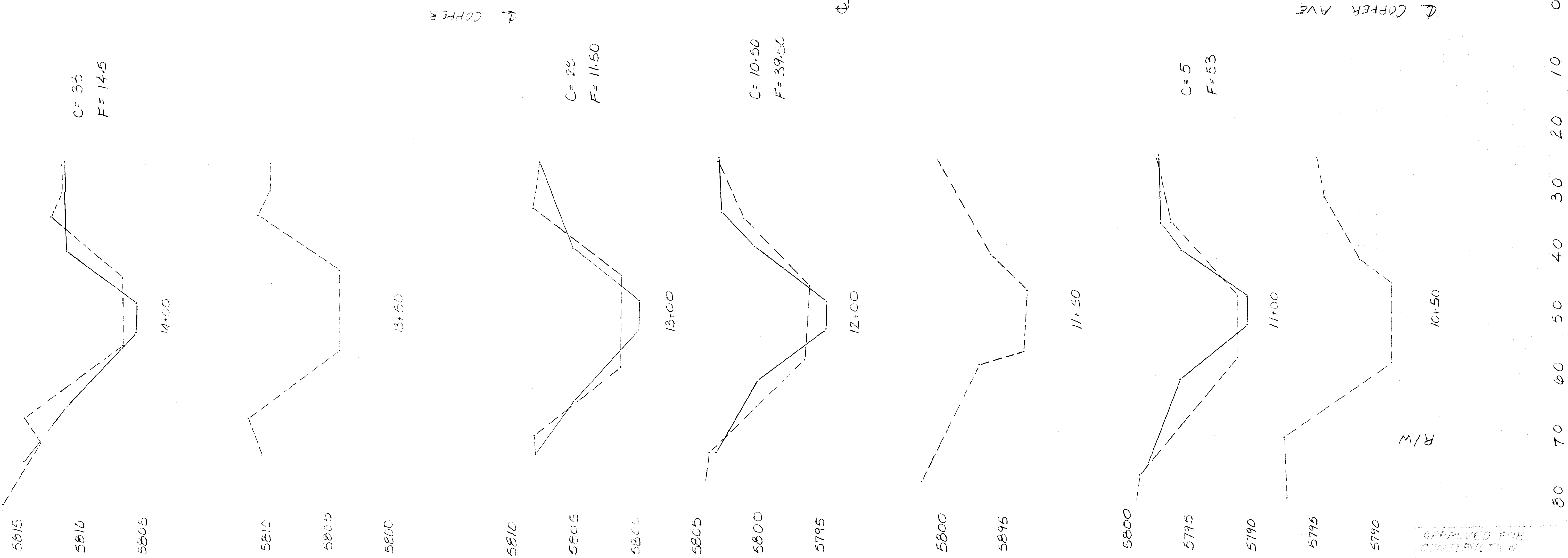
COPPER CHANNEL CROSS SECTIONS
STA. 26+00 TO STA. 33+50

APPROVED FOR
CONSTRUCTION

DATE

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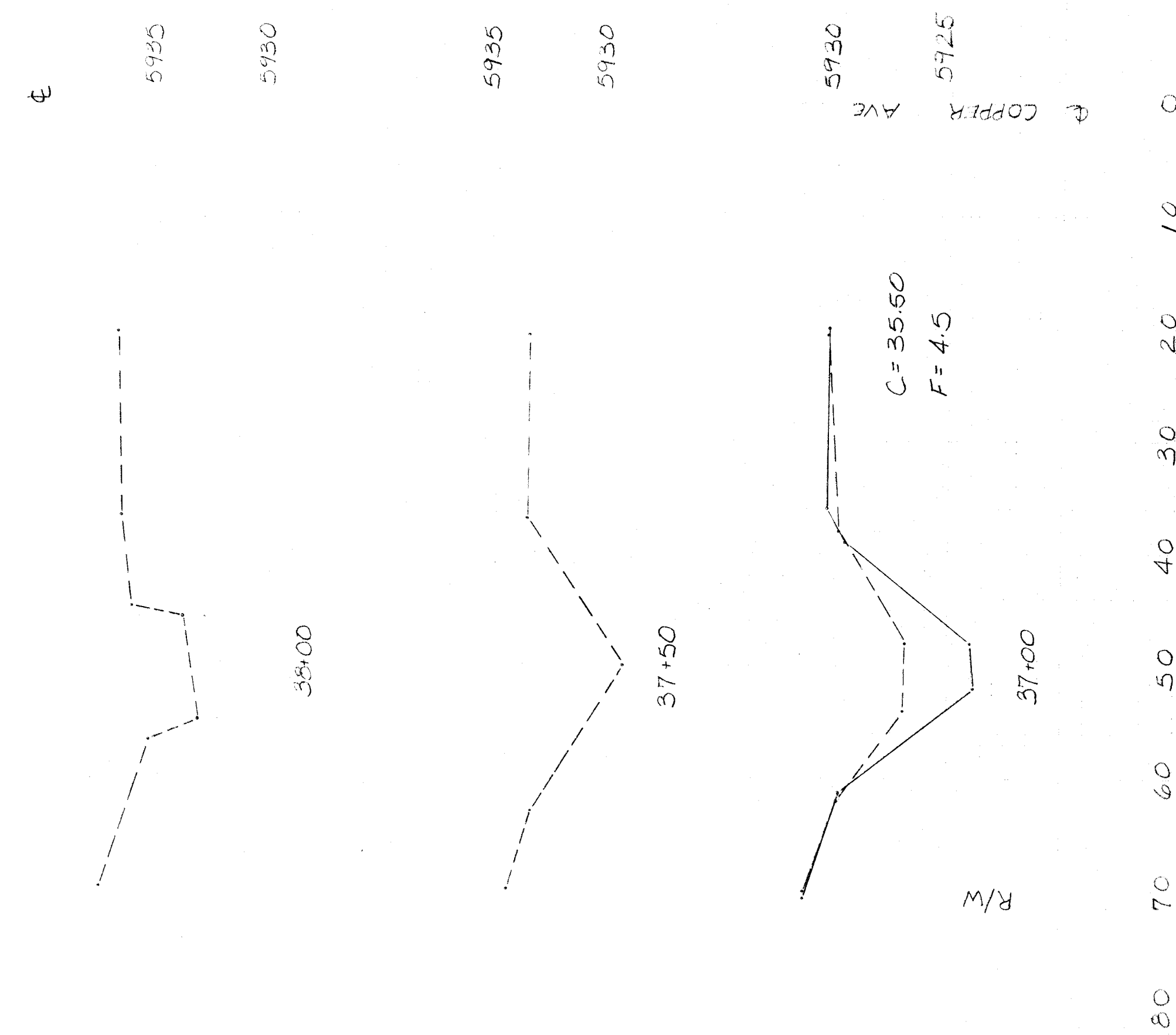
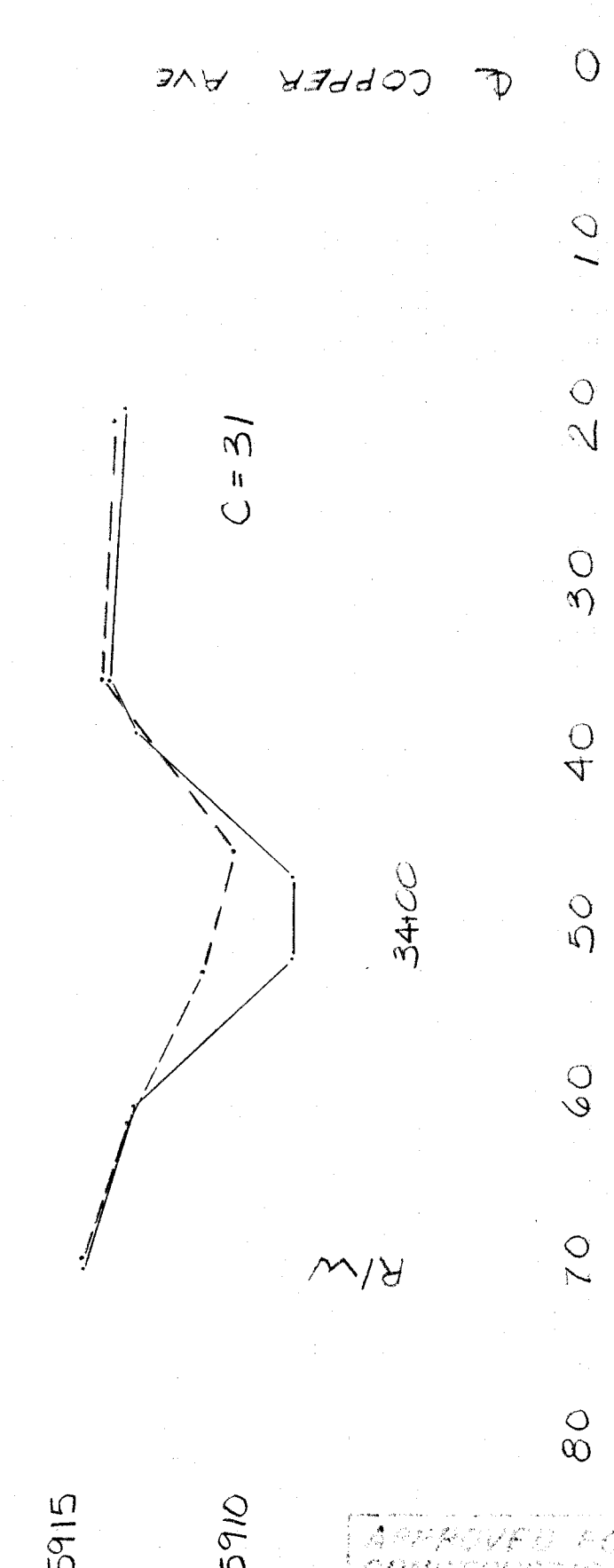
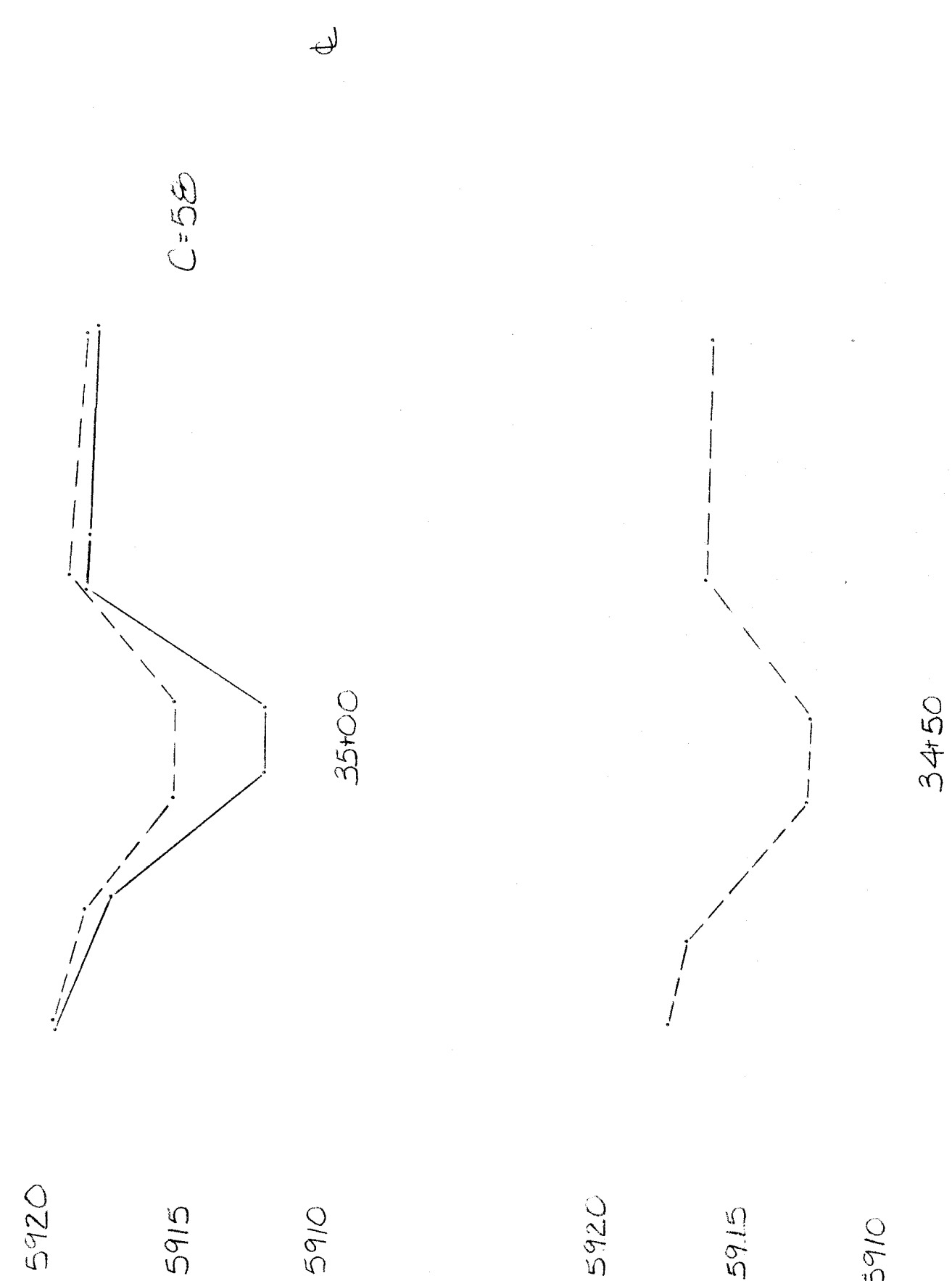
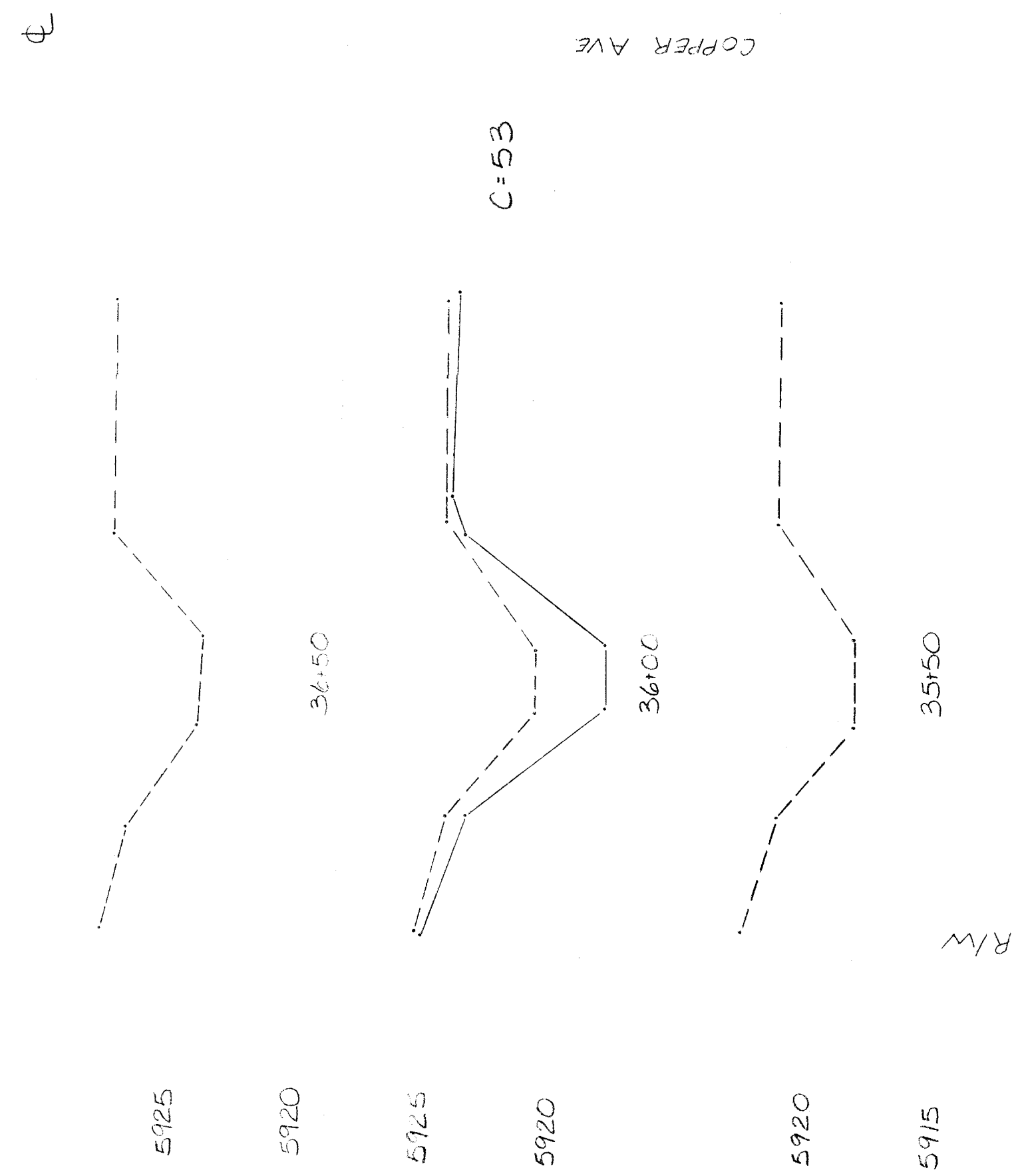
FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

COPPER CHANNEL CROSS SECTIONS
 STA. 10+50 TO STA. 18+00

DESIGNED BY	CHECKED BY	DATE
DRAWN BY	APPROVED FOR CONSTRUCTION	DATE

216 2891 2986



FOR INFORMATION ONLY

CITY OF ALBUQUERQUE			
PUBLIC WORKS DEPARTMENT			
ENGINEERING DIVISION			
TITLE: COPPER CHANNEL CROSS SECTIONS			
STA. 34+00 TO STA. 38+00			
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
DATE	DATE	DATE	DATE
DRAWING NO.		SHEET NO.	
26		22	