

PAVING IMPROVEMENT OF NEW JERSEY

FROM
OLIVER TO SOUTH LINE OF LOT 3, BLOCK I, REPLAT OF BLOCK I & J, WASHINGTON HEIGHTS ADDITION

IN

THE CITY OF WICHITA

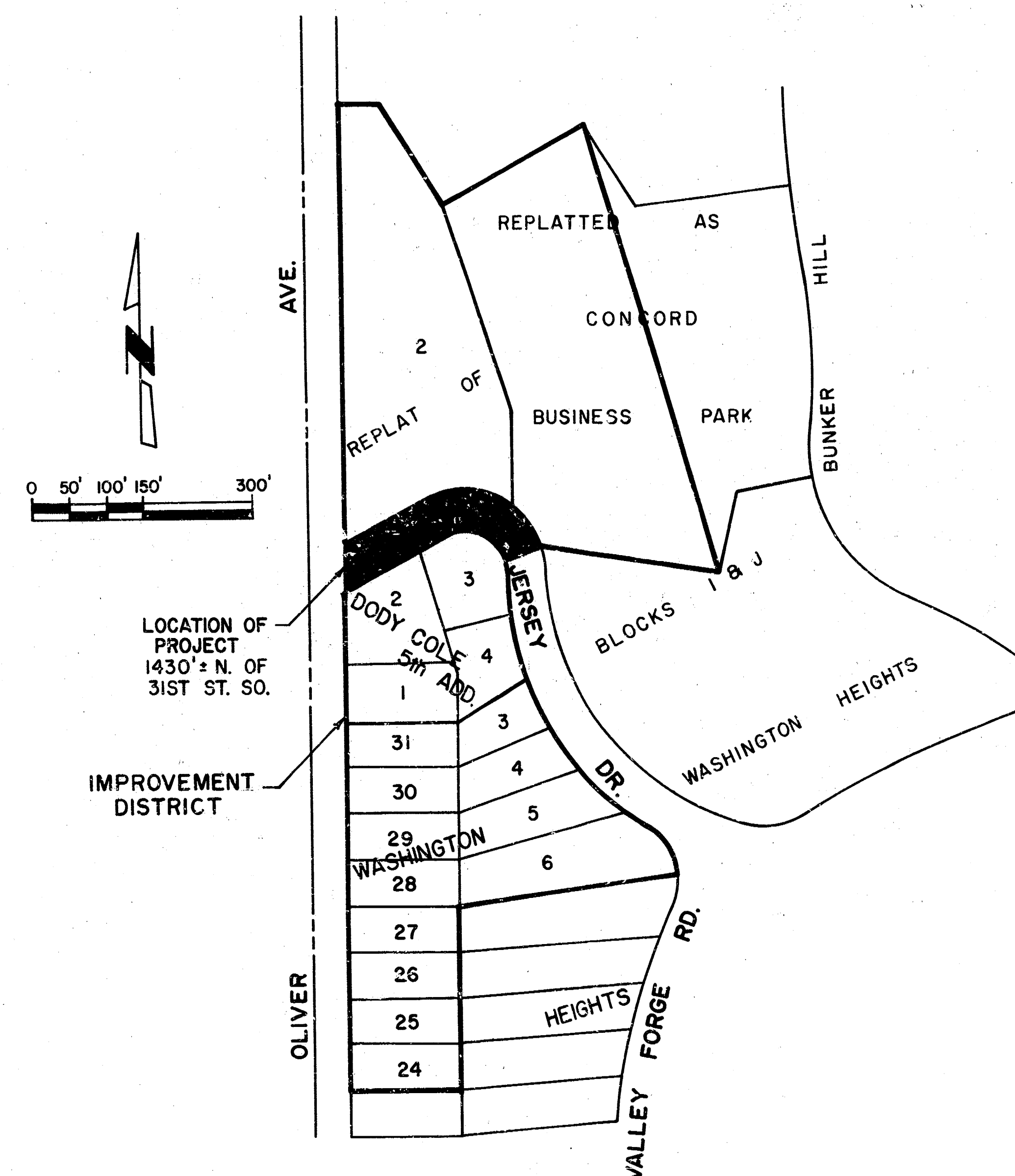
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

CITY PROJECT NO. 472-76-245-81809-000-000-001

INDEX #602755

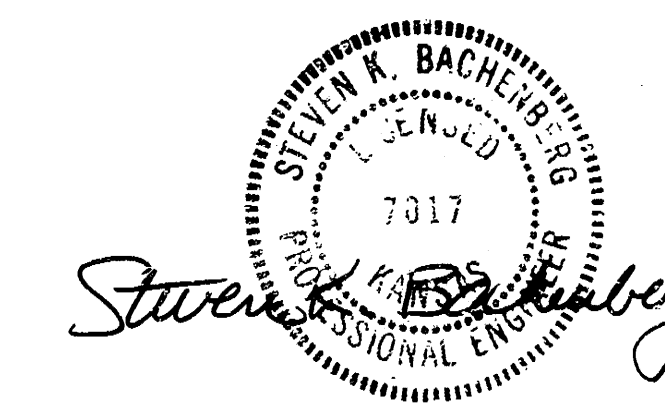
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9. Cross Sections (Street)
10. Cross Sections (Ditch)



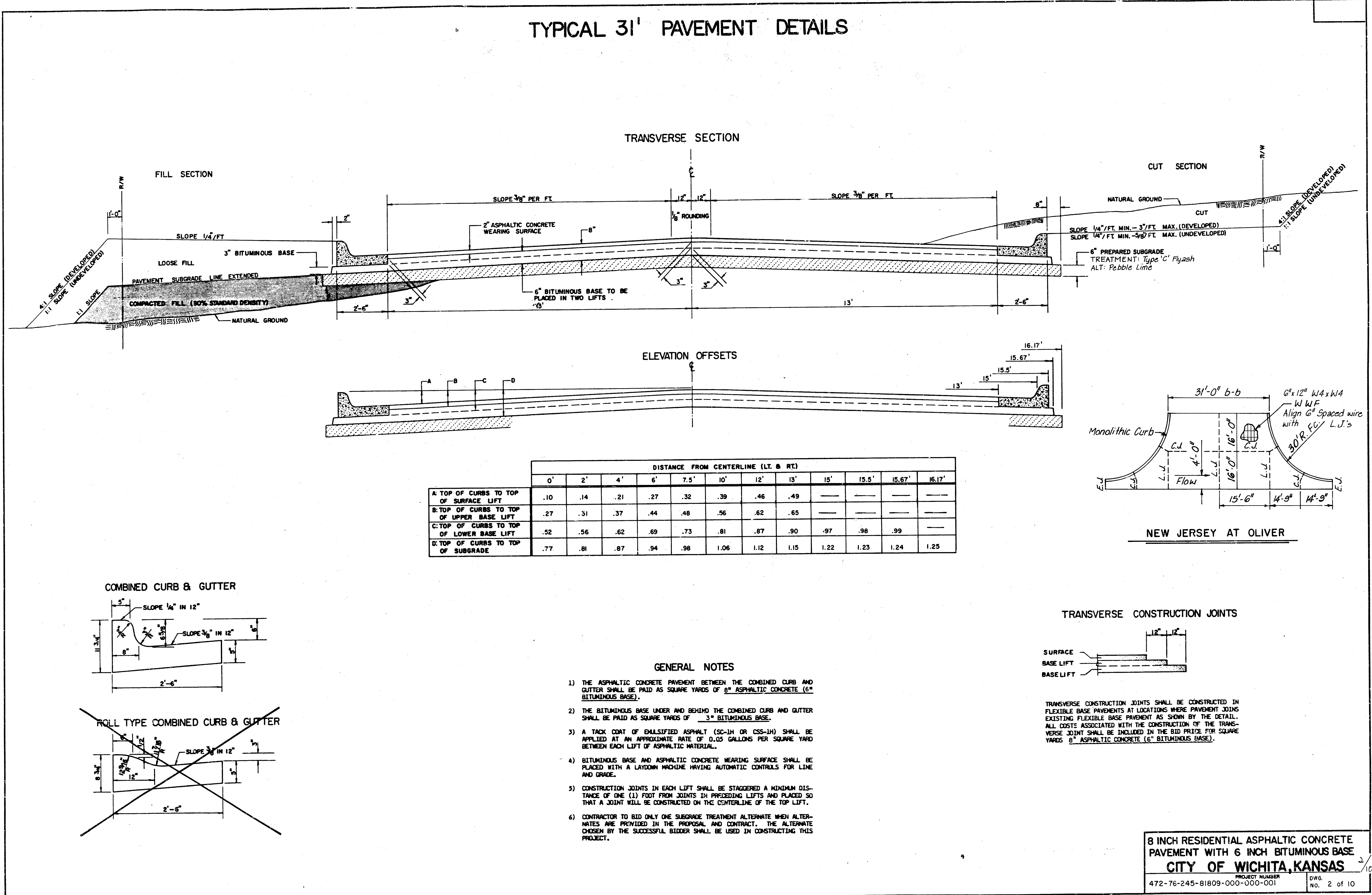
JULY, 1988

Booker/Freund
Engineers Architects Planners



SHEET 5 REVISED 11-7-88

TYPICAL 31' PAVEMENT DETAILS



GENERAL NOTES

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. Existing utilities and their location, as shown on the plans, are to be maintained and protected. Location information has been obtained from the various utility companies and is shown on the plans. The Contractor will be required to verify the location of existing utilities within the right-of-way which do not conflict with proposed construction.

A new cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided as required when proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Such new cuts shall be made within three (3) feet of an existing joint the limits of removal shall be extended to the existing joint. Such new cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.

Excavation from the removal of miscellaneous structures and access 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.

Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The Contractor will be required to salvage all sprinkler heads and/or valves and give such materials to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.

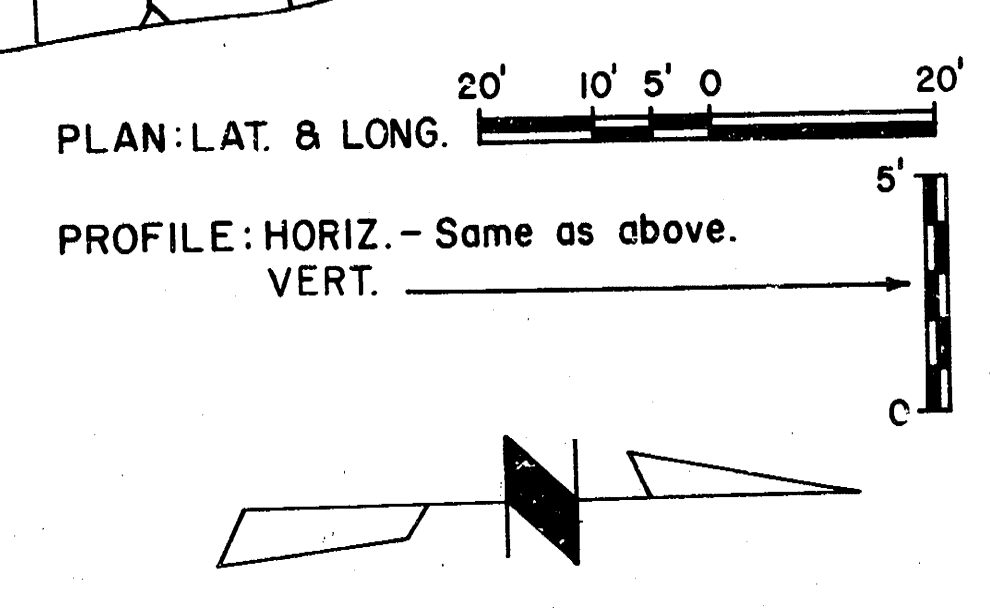
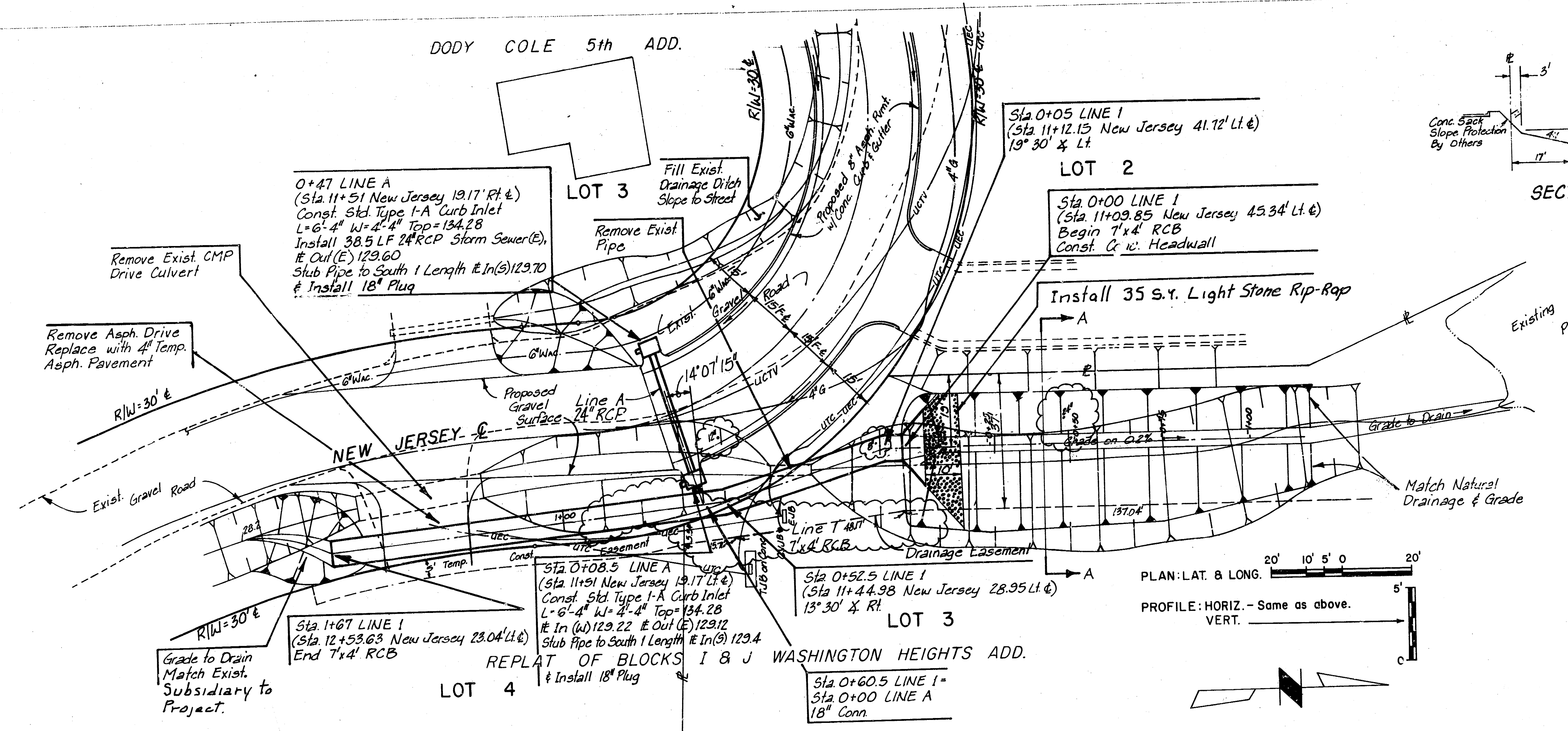
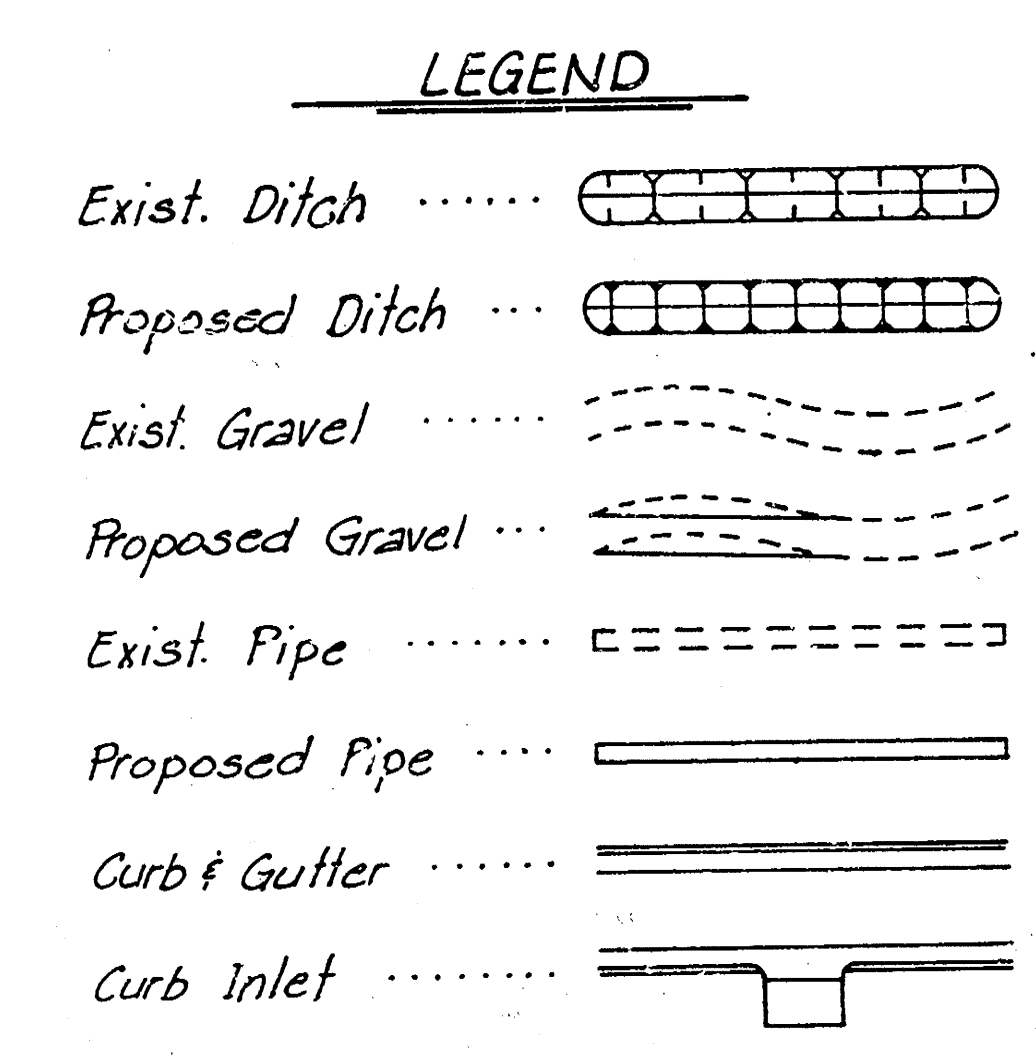
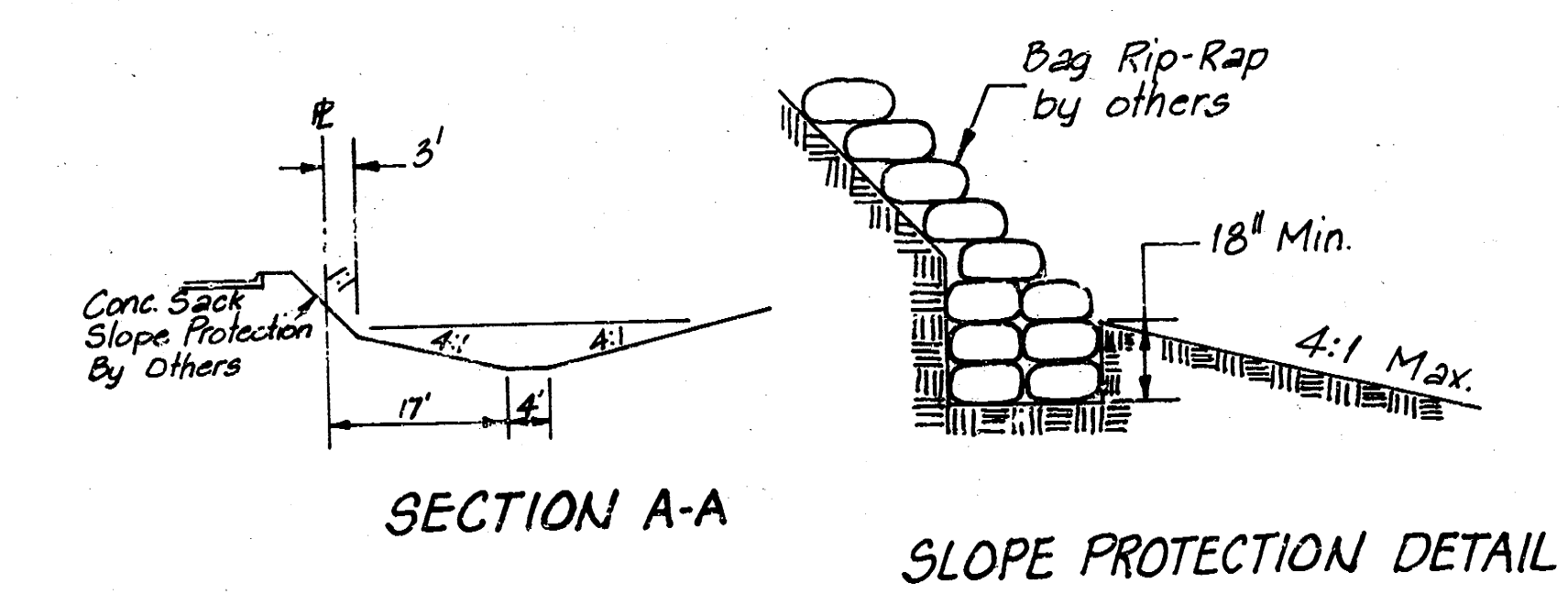
Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

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.

Only active building drain lines which connect actual buildings to the storm sewer system are to be recommended to the new storm sewer construction. Building drain lines and/or connections which have been abandoned are not to be recommended to the new storm sewer construction. It will be the sole responsibility of the Contractor to ascertain which building drain lines and/or connections are active and which such drains and/or connections have been abandoned. All building drain line connections shall conform to the applicable sections of the City of Wichita Code. This work will be paid for at the unit price bid for the various sizes and types of pipe involved. Connection of building drain lines to storm sewer pipe will be paid for at the unit price bid for Building Drain Line Connection and such connection shall be made in accordance with the details shown on the plan.

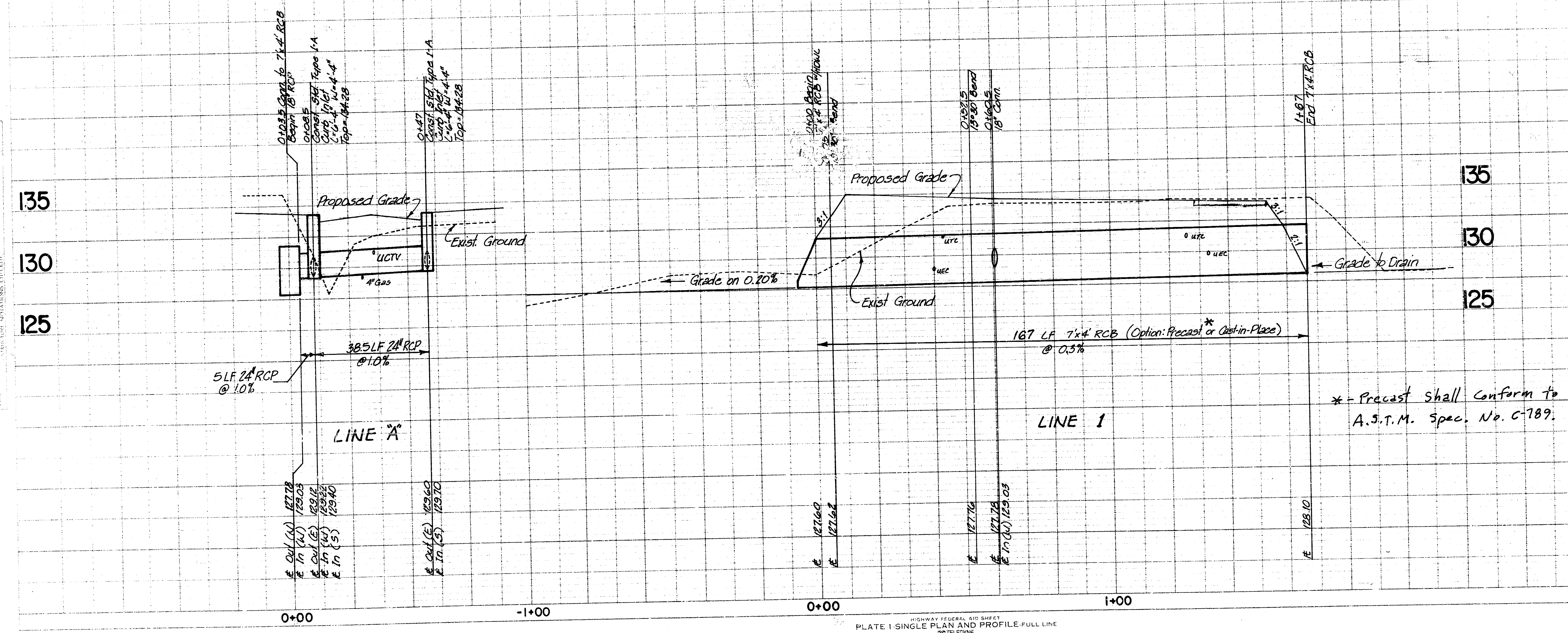
The Contractor shall be responsible for preserving property from. The Contractor will be required to re-establish any property from which is damaged or destroyed by his construction operations. Such from shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance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

Storm sewer construction which occurs below water table elevations at the time of construction shall meet certain infiltration requirements as specified herein, when such construction discharges into a closed system or pumping station. Infiltration into such storm sewer construction shall not exceed an allowance greater than 300 gallons per each inch of vertical distance, which vertical distance shall not exceed the vertical diameter of the construction. The flow line of the sewer is below the water table elevation per mile of storm sewer per day for each inch diameter. Infiltration shall be considered as sections of sewer for purposes of determining the maximum allowable leakage.



B.M. *1 - 50d Step in P.P.
Sta. 8+16, 36' Rt. El. = 145.85

B.M. *2 - Chiseled "a" Top of Sidewalk
Sta. 12+50, 46' Lt. El. = 135.33



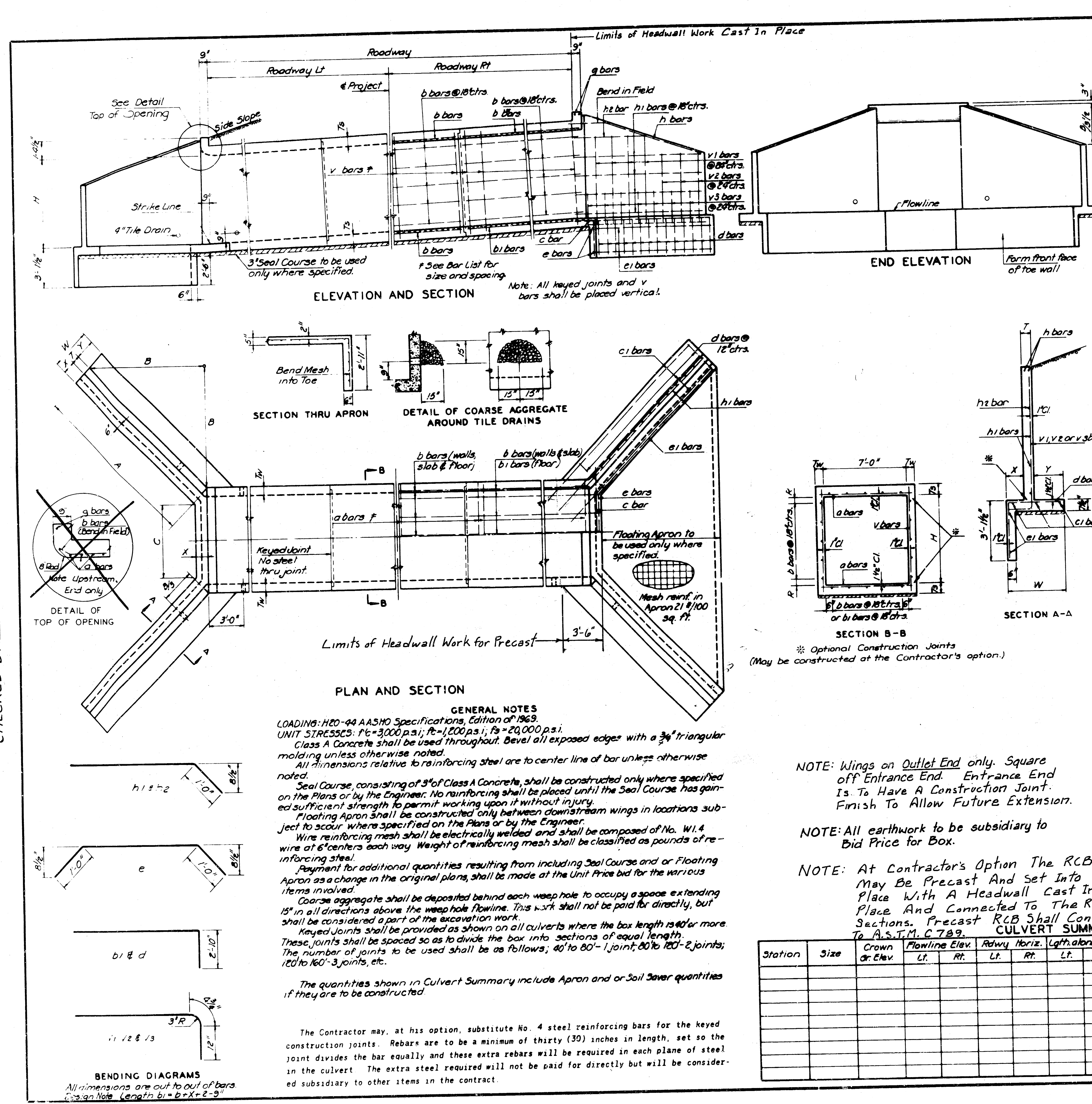
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

PAVING IMPROVEMENT OF NEW JERSEY
FROM
OLIVER TO 370± WEST

CITY PROJECT NO. 472-76-245-81809-000-000-001

Booker/Freund
Engineers Architects Planners

SCALE NOTED DATE JULY, 1988 DWS. NO. 4 of 10



FHW REGION NO.		STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7		KANSAS			5	10

7x		7x3x		7x3x 16'7"		7x5x		7x6x		7x7x		7x	
Apron Steel (One)	Lbs. Seal Course	Apron Steel (One)	Lbs. Seal Course	Apron Steel (One)	Lbs. Seal Course	Apron Steel (One)	Lbs. Seal Course	Apron Steel (One)	Lbs. Seal Course	Apron Steel (One)	Lbs. Seal Course	Apron Steel (One)	Lbs. Seal Course
Letter	A B C	A B C	A B C	A B C	A B C	A B C	A B C	A B C	A B C	A B C	A B C	A B C	A B C
Dimension	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
Bar	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1	a b b1
Number	10	10	10	10	10	10	10	10	10	10	10	10	10
Size	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4
Length	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

Station	Size	Crown or Elev.	Flowline Elev.	Rdwy Horiz.	Lgh. along Box	Sections	Apron	Soil Saver	Design Full	C/A Conc. Cu. Yds.	Reinf. Steel Lbs.

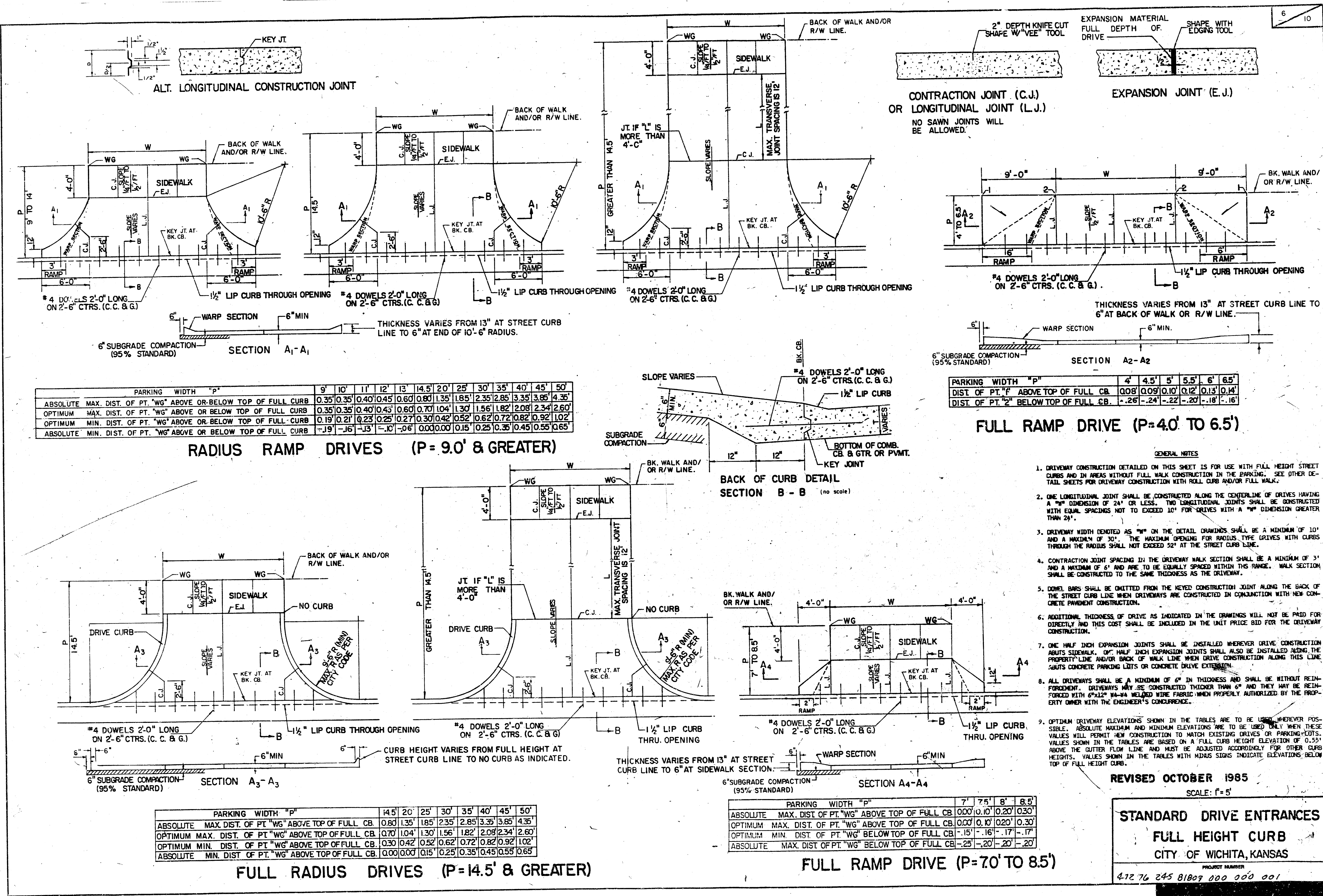
NO.	DATE	REVISIONS	BY	APPRO.
1	4-5-79	Rebar Quant. Rev. Conc. & Flowline Elev.	W.L.H.	L.R.P.
2	4-26-79	Keyed Joint Option	W.L.H.	L.R.P.
3	5-10-79	Wire Reinf. Mesh Changed to W.L.H. K.G.L.	W.L.H.	K.G.L.
4	10-27-79	Size AA3HD Des. #32-72.7 W.L.H. K.G.L.	W.L.H.	K.G.L.
5	5-19-79	Removed 12' Uniform Box Sections	W.L.H.	K.G.L.

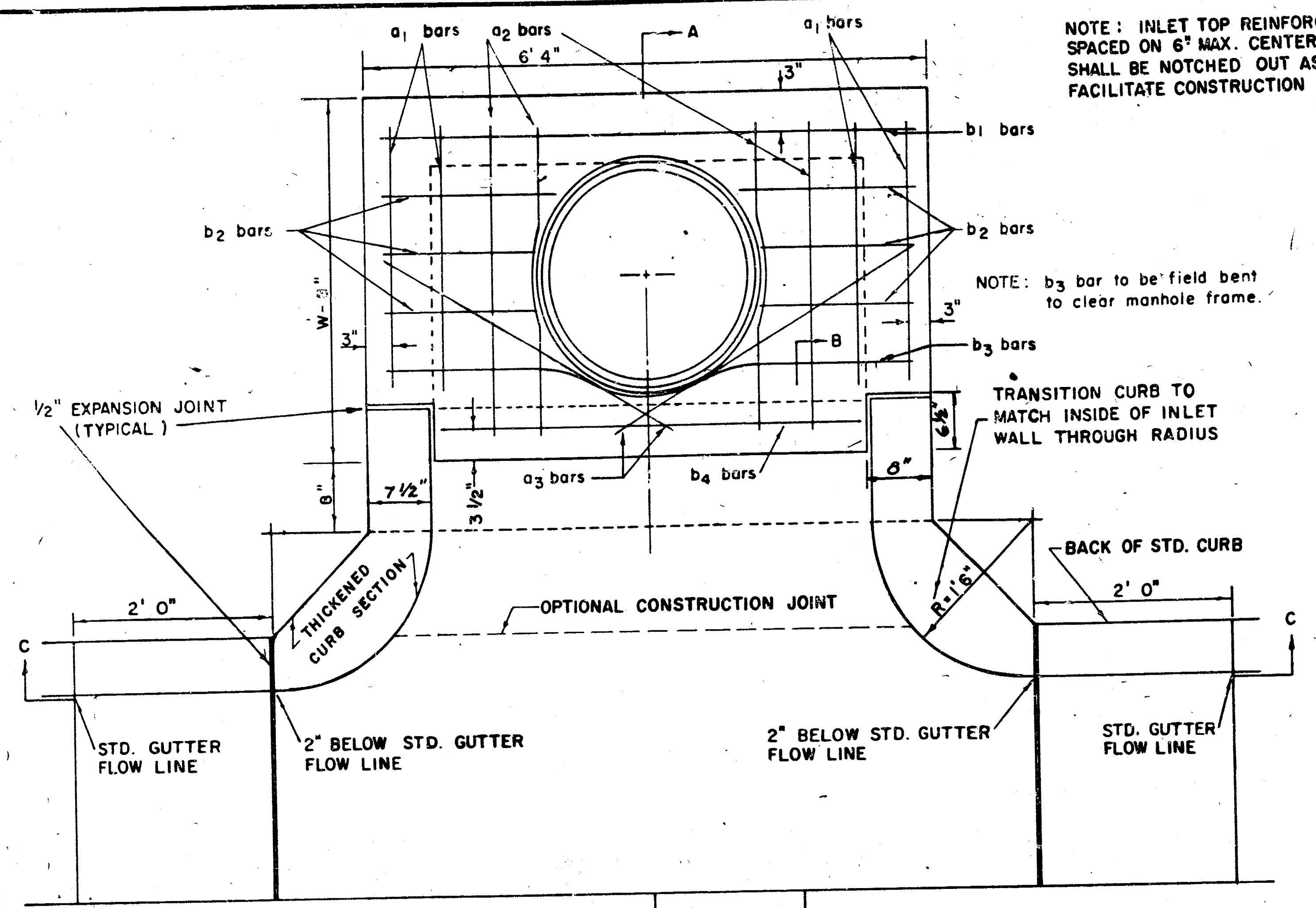
472 76 245 81809 000 000 001

R.C. BOX CULVERT
 7 FT. SPAN
 REVISED 11-7-88 KK

SHEET NO. 5 OF 7 SCALE: 1"=10'-0"

DESIGNED BY: [Signature] CHECKED BY: [Signature] QUANTITIES BY: [Signature] TRACED BY: [Signature] DESIGNER: [Signature] DETAILER: [Signature] QUANT. CHECKER: [Signature] TRACER: [Signature]





PLAN

STEEL SCHEDULE

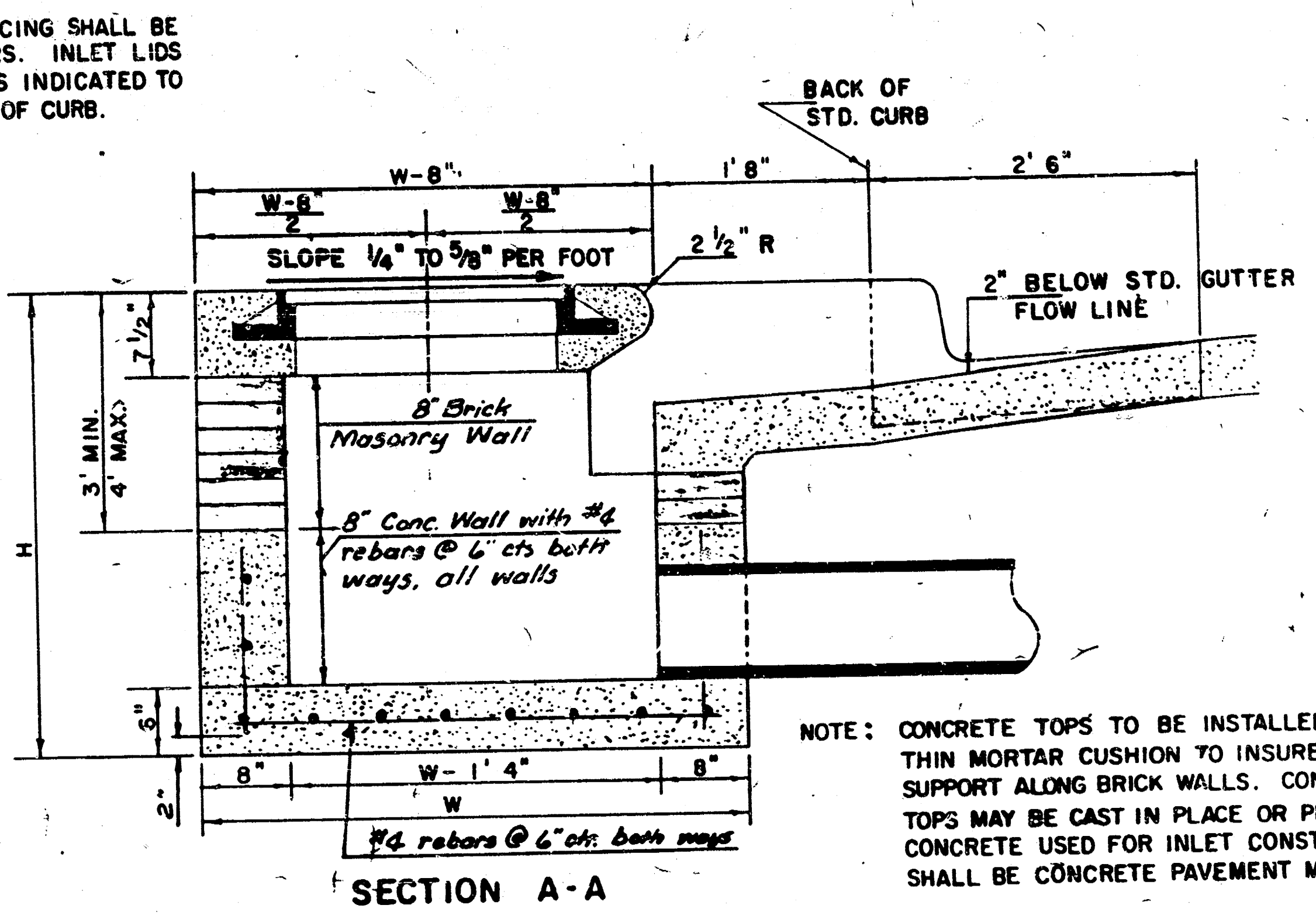
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	4	4	2	1	3	5	7	
SIZE	#4	#4	#4	#4	#4	#4	#4	
LENGTH	W=4'4" 5'7"	6'7"	4'0"	6'1"	—	—	—	1'9" 6'2" 4'8"
	W=5'4" 7'7"	8'7"	5'0"	—	6'1"	—	—	1'9" 6'2" 4'8"
	W=6'4" 9'7"	10'7"	6'0"	—	6'1"	—	—	1'9" 6'2" 4'8"
	W=7'4" 11'7"	12'7"	7'0"	—	6'1"	—	—	1'9" 6'2" 4'8"
	W=8'4" 13'7"	14'7"	8'0"	—	6'1"	—	—	1'9" 6'2" 4'8"

* NOTE: a₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	5' 8" x 6' 4" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	6' 8" x 6' 4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	5' 8" x 6' 4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	6' 8" x 6' 4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	7' 8" x 6' 4" x 7 1/2"	60" & 66"	0.90 ±



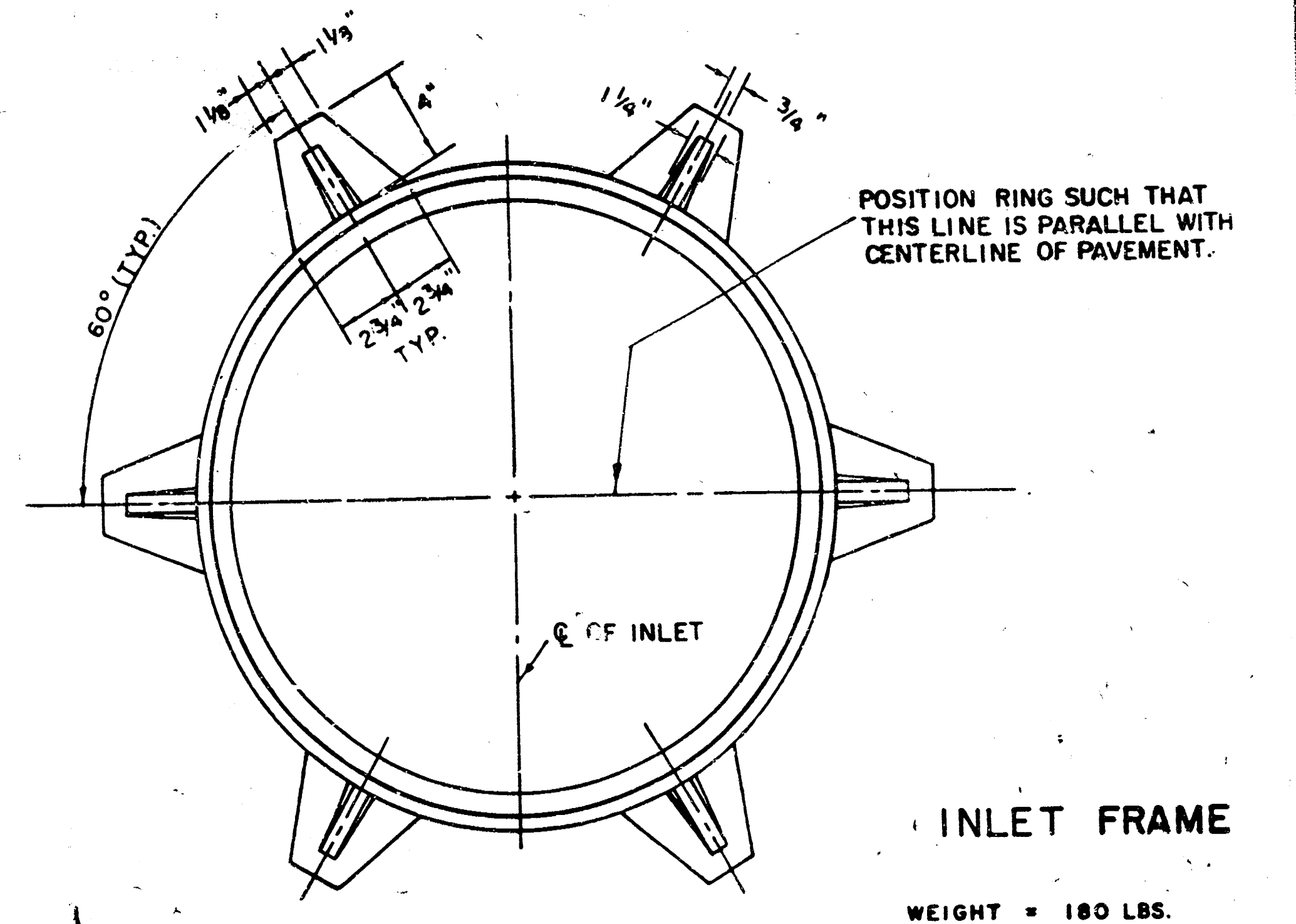
SECTION A-A

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6' 4" AND H = 7' 0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

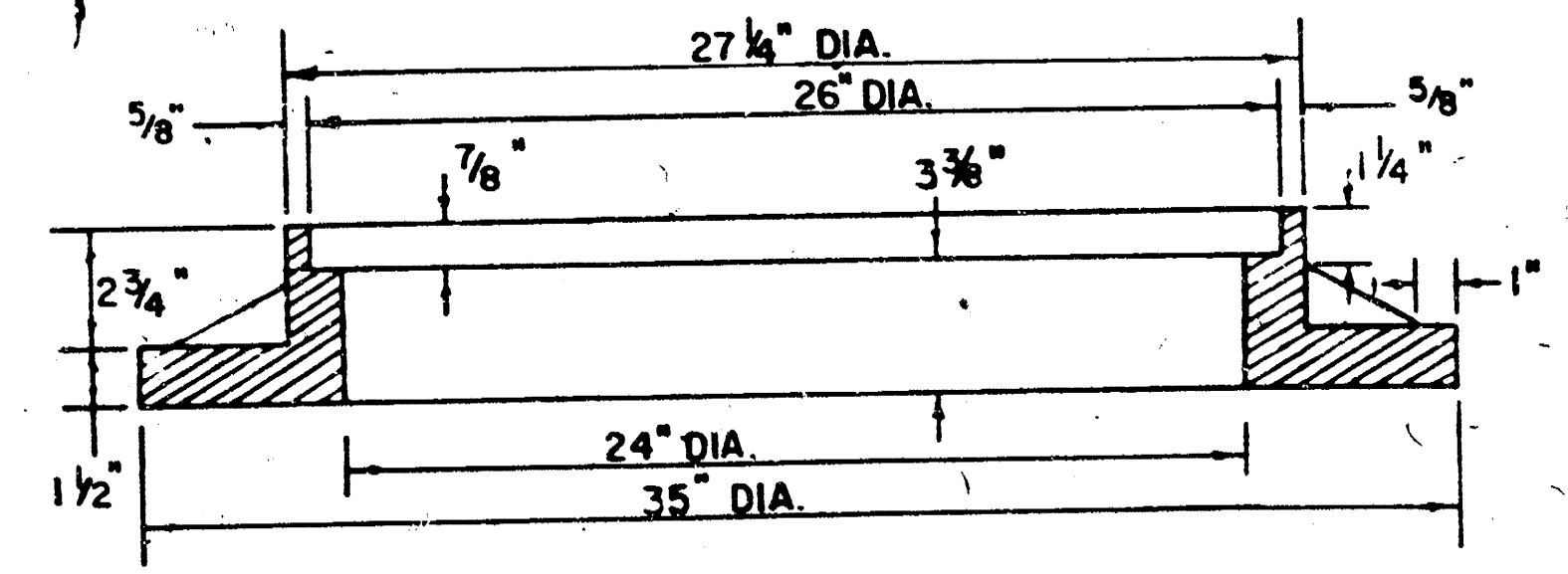
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

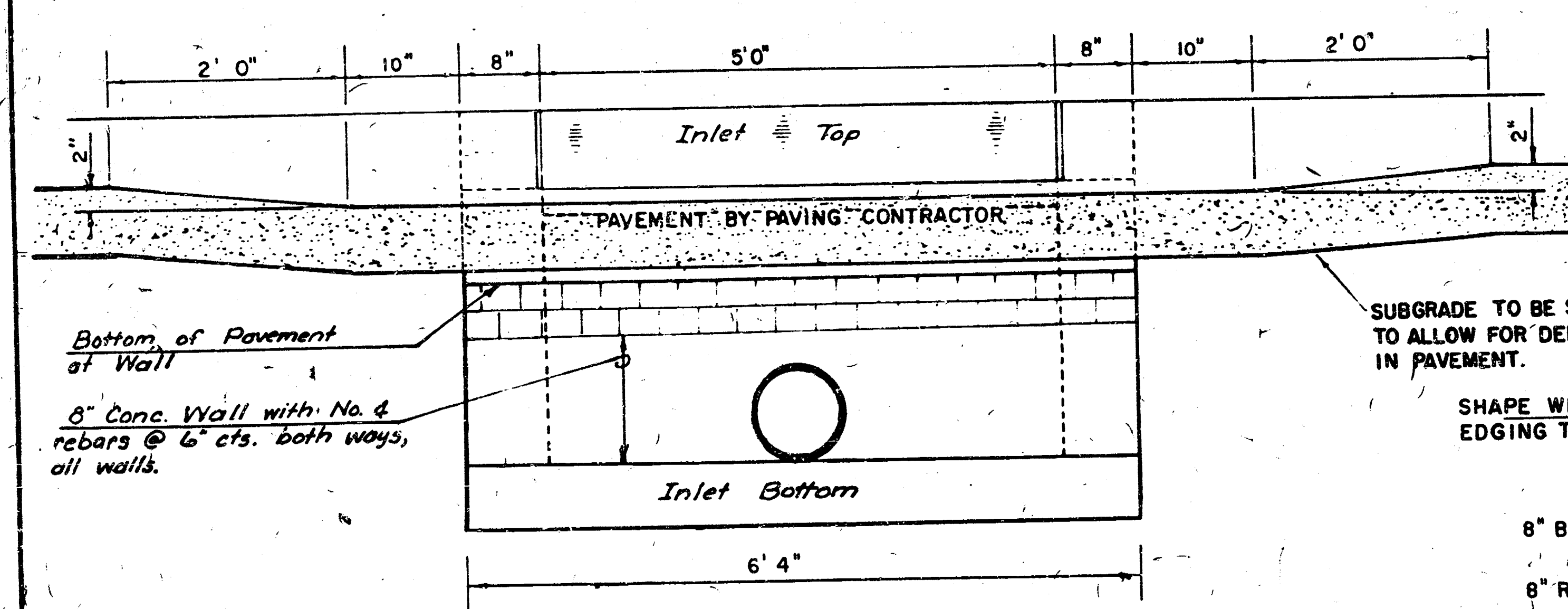


INLET FRAME

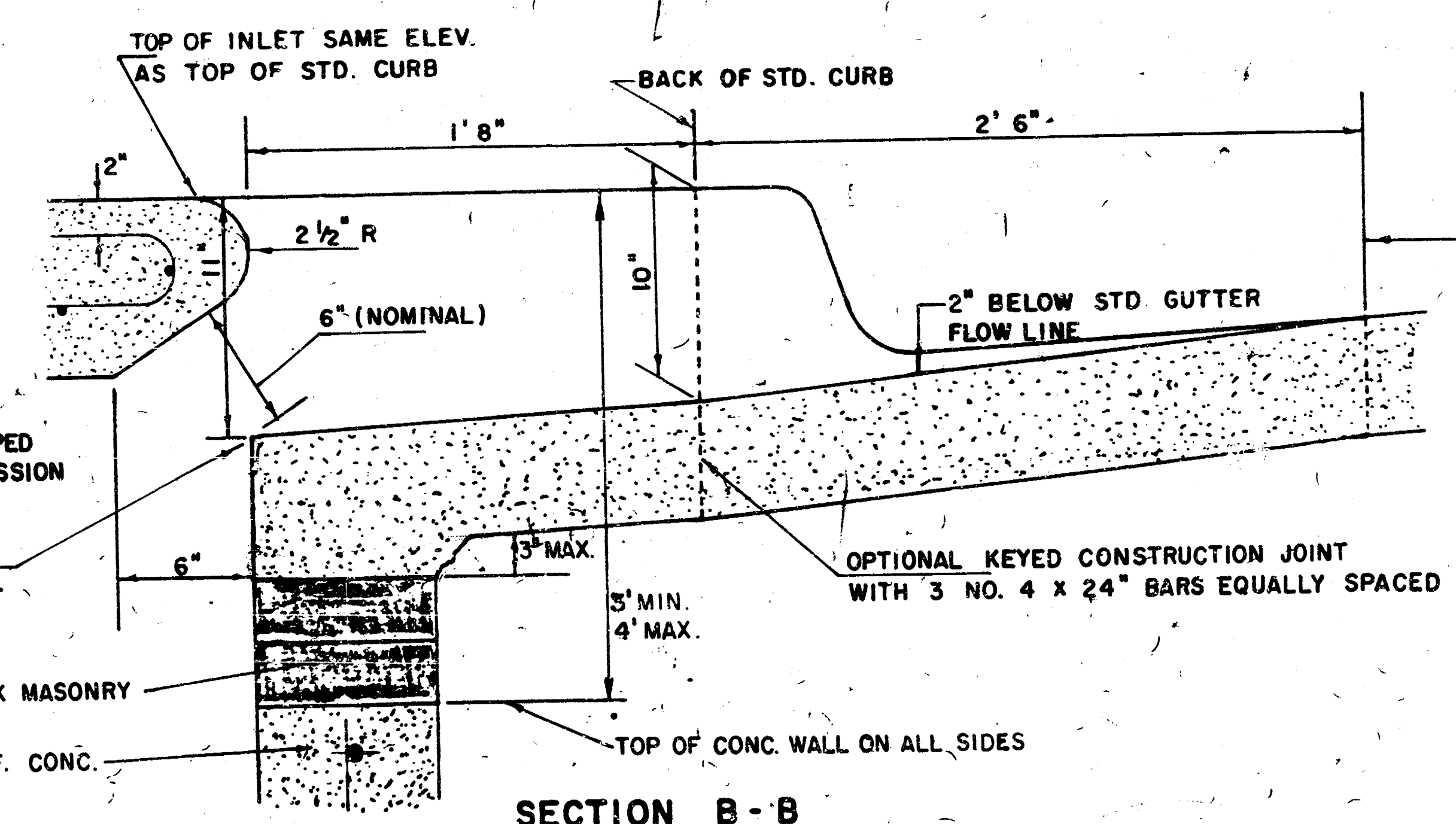
WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



SECTION C-C

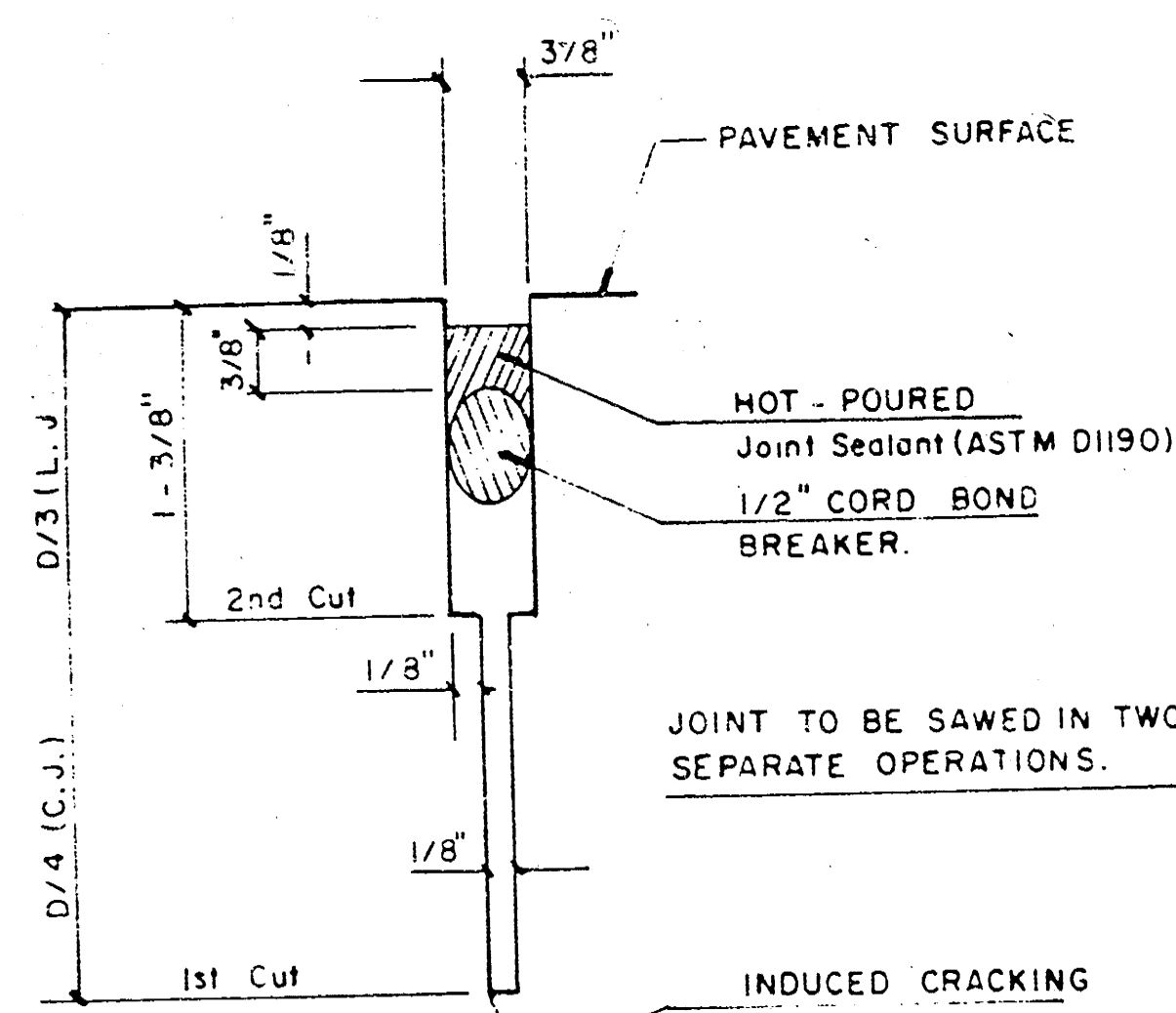


SECTION B-B

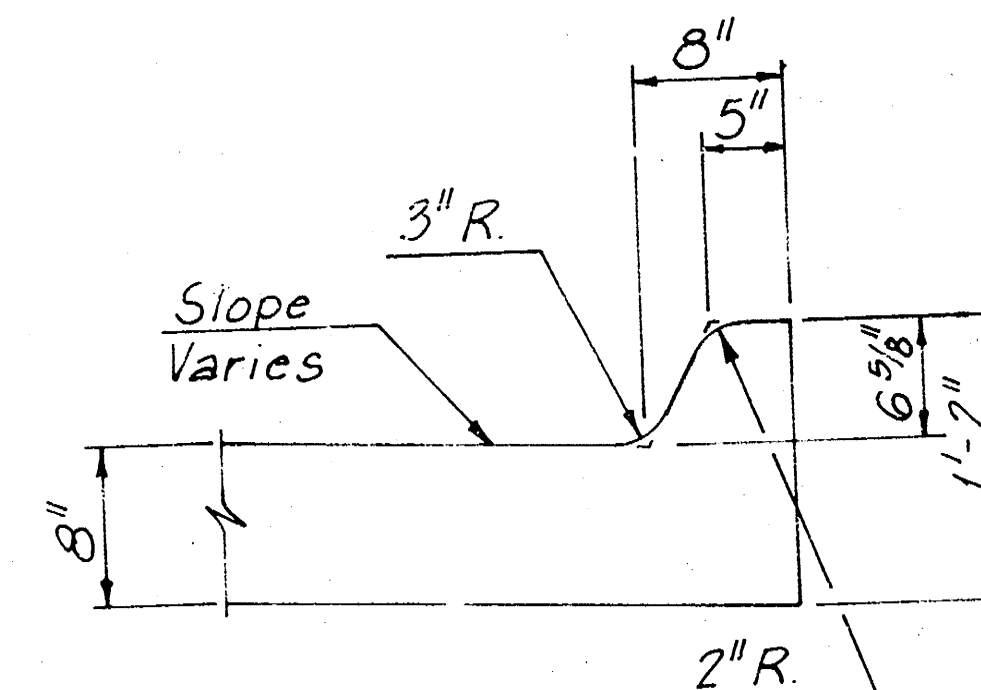
LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER

REVISED 12-21-1984

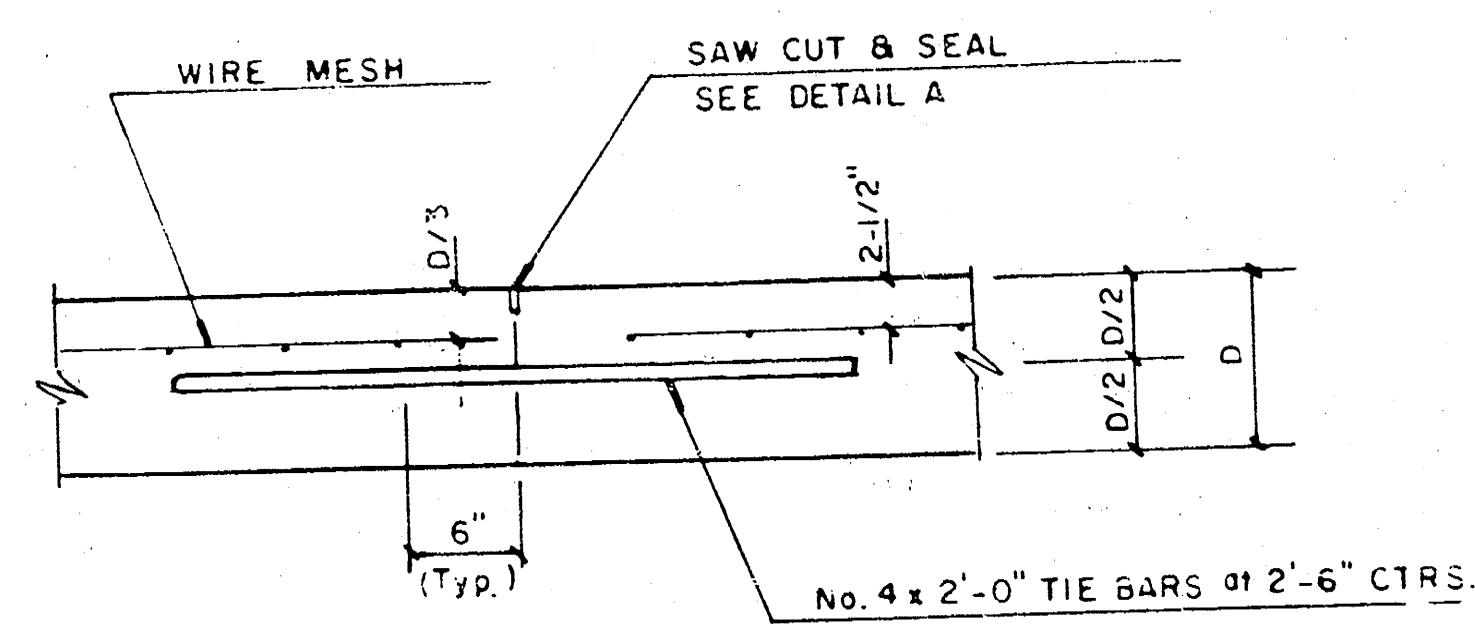
4-12 76 245 81809 000 000 001
DETAIL STANDARD TYPE 1A CURB INLET
 CITY OF WICHITA, KANSAS
 INLET OPENING = 6" x 5' 0"
 JUNE 1984



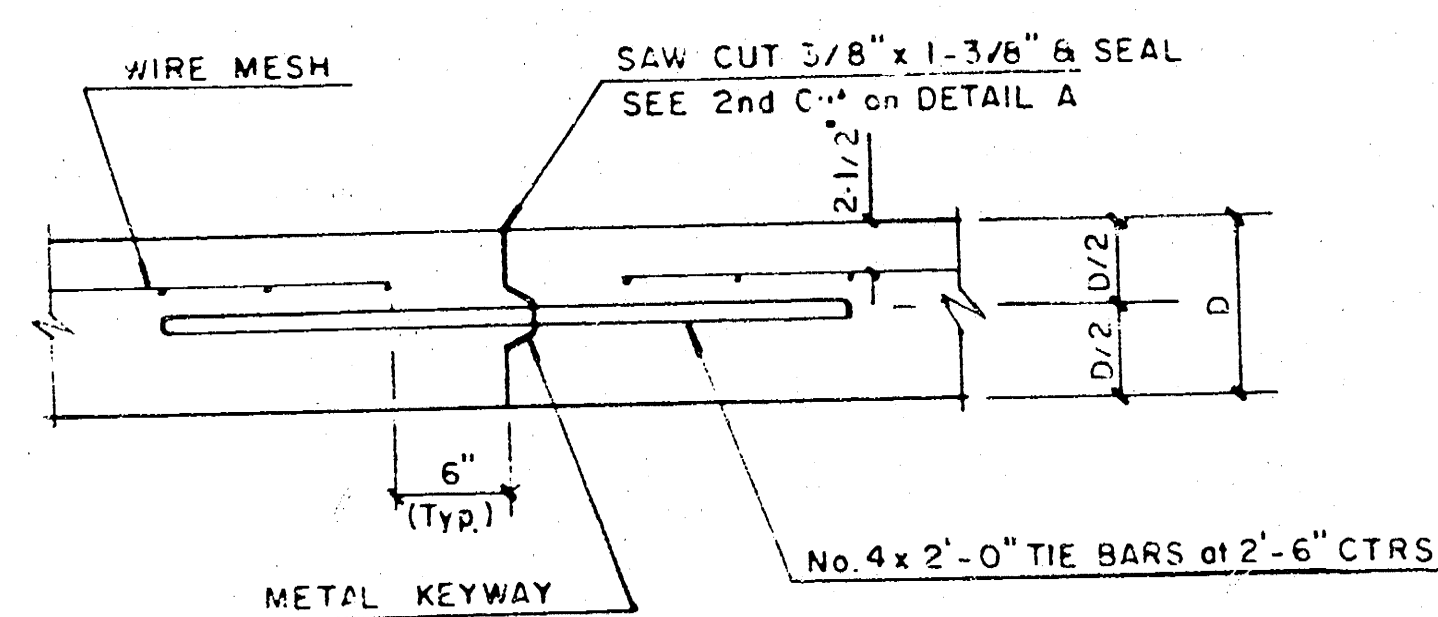
DETAIL A



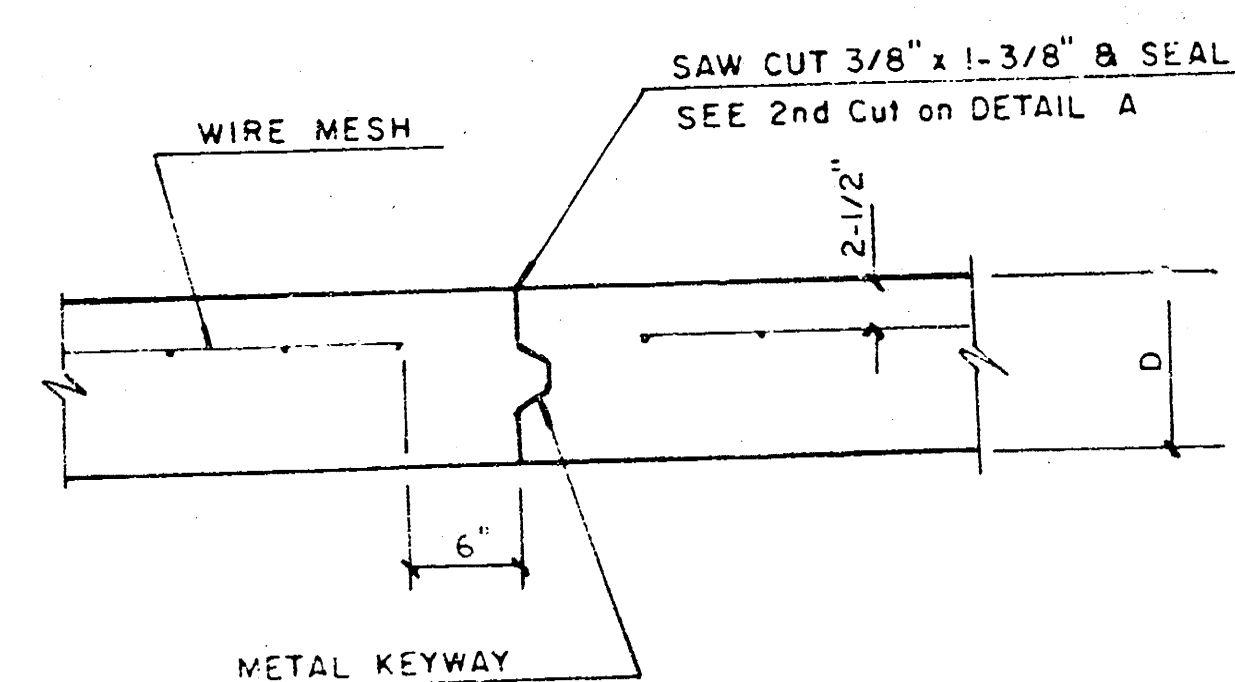
MONOLITHIC EDGE CURB
(Construct Curb Monolithically With Pavement)



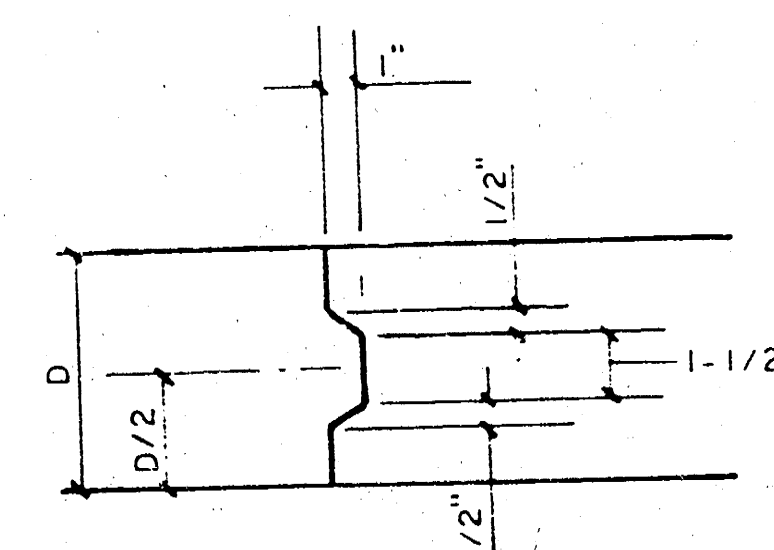
LONGITUDINAL JOINT DETAIL (L.J.)



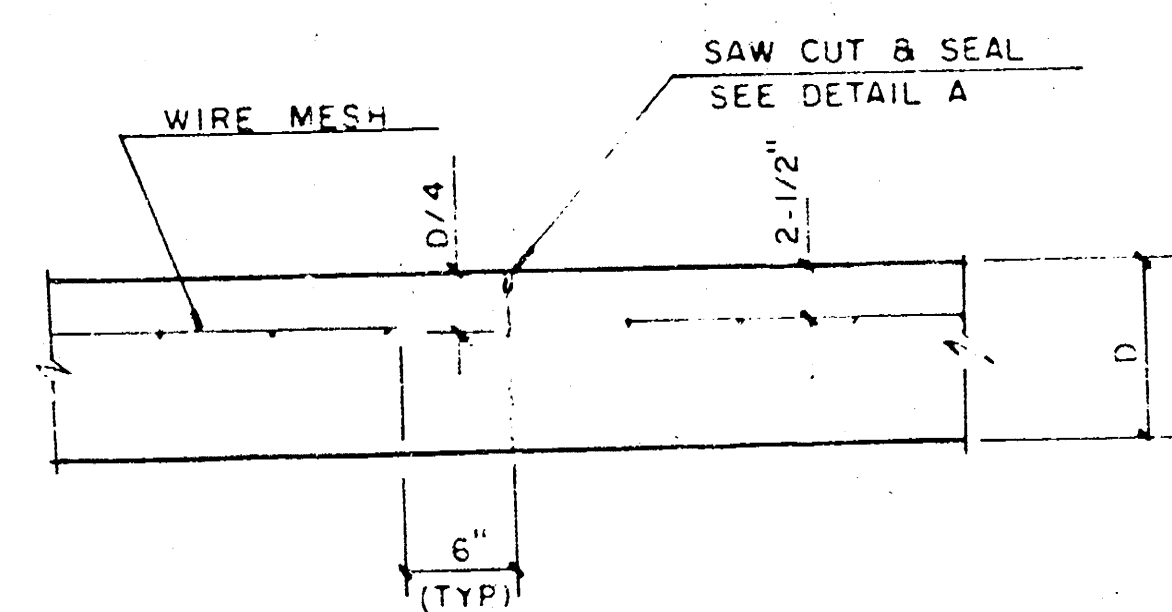
OPTIONAL LONGITUDINAL CONSTRUCTION JOINT (L.J.)
(Alternate L.J.)



OPTIONAL CONTRACTION CONSTRUCTION JOINT (C.J.)
(Alternate C.J.)

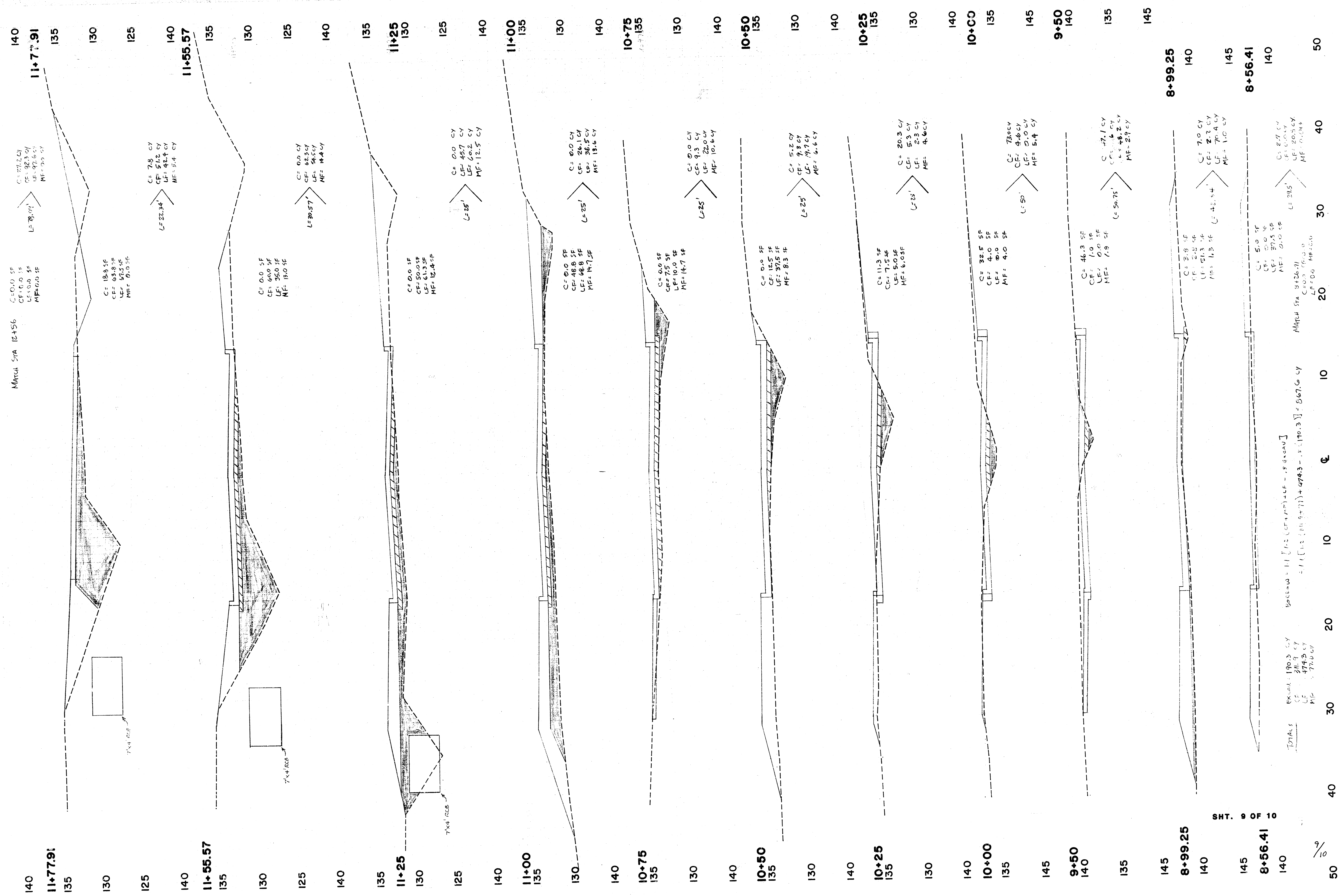


KEYWAY DETAIL



CONTRACTION JOINT DETAIL (C.J.)

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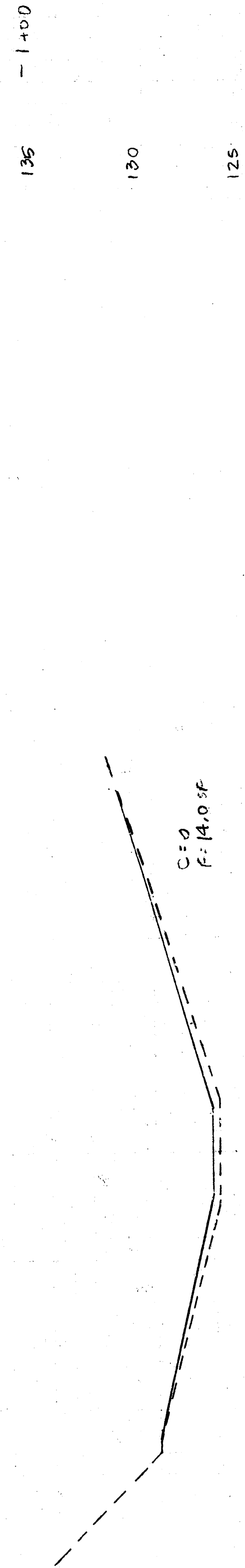


LOOKING NORTH

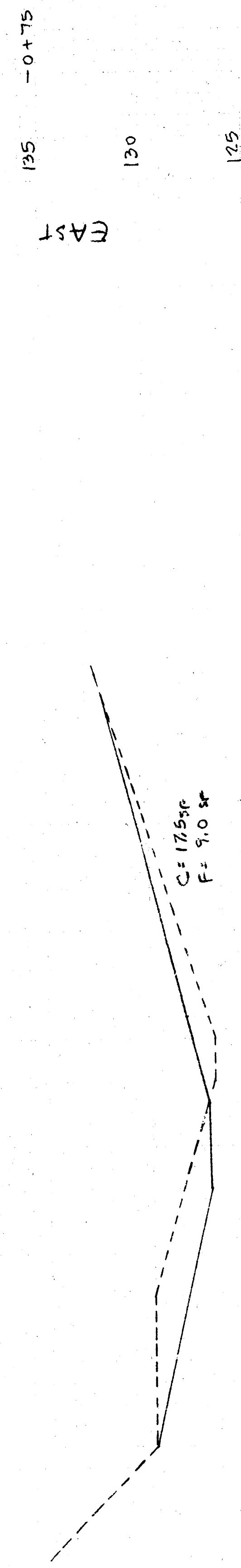
20 15 10 5 0 5 10 15 20

1425
C=0
F=0

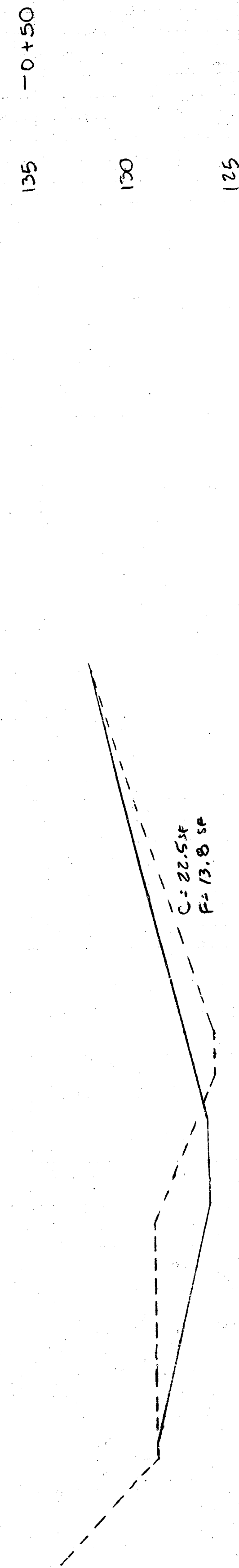
> C=0
F=6.5 cy



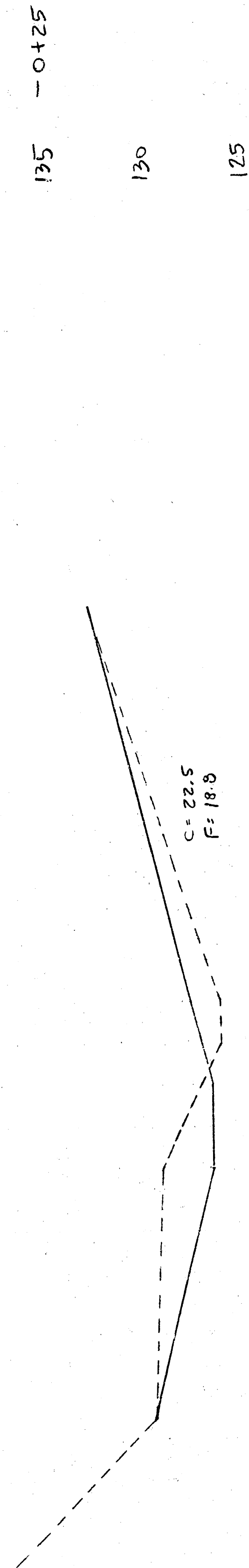
> C=8.1 cy
F=10.6 cy



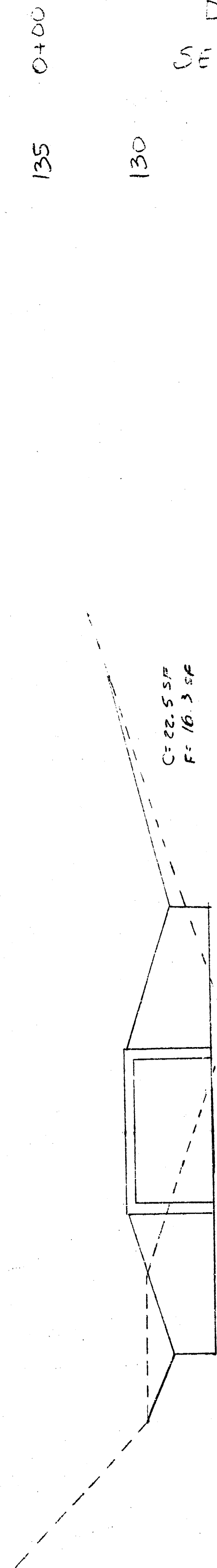
> C=18.5 cy
F=10.6 cy



> C=20.8 cy
F=15.1 cy



> C=20.8 cy
F=16.3 cy



TOTAL C=68.2 cy
F=59.1 cy

Bottom = 1.1 (1.12 F + 3.0)
= 1.1 (1.12 (18.0) + 3.0) = 38.0 cy

DITCH
SECTIONS

25 20 15 10 5 0 5 10 15 20