

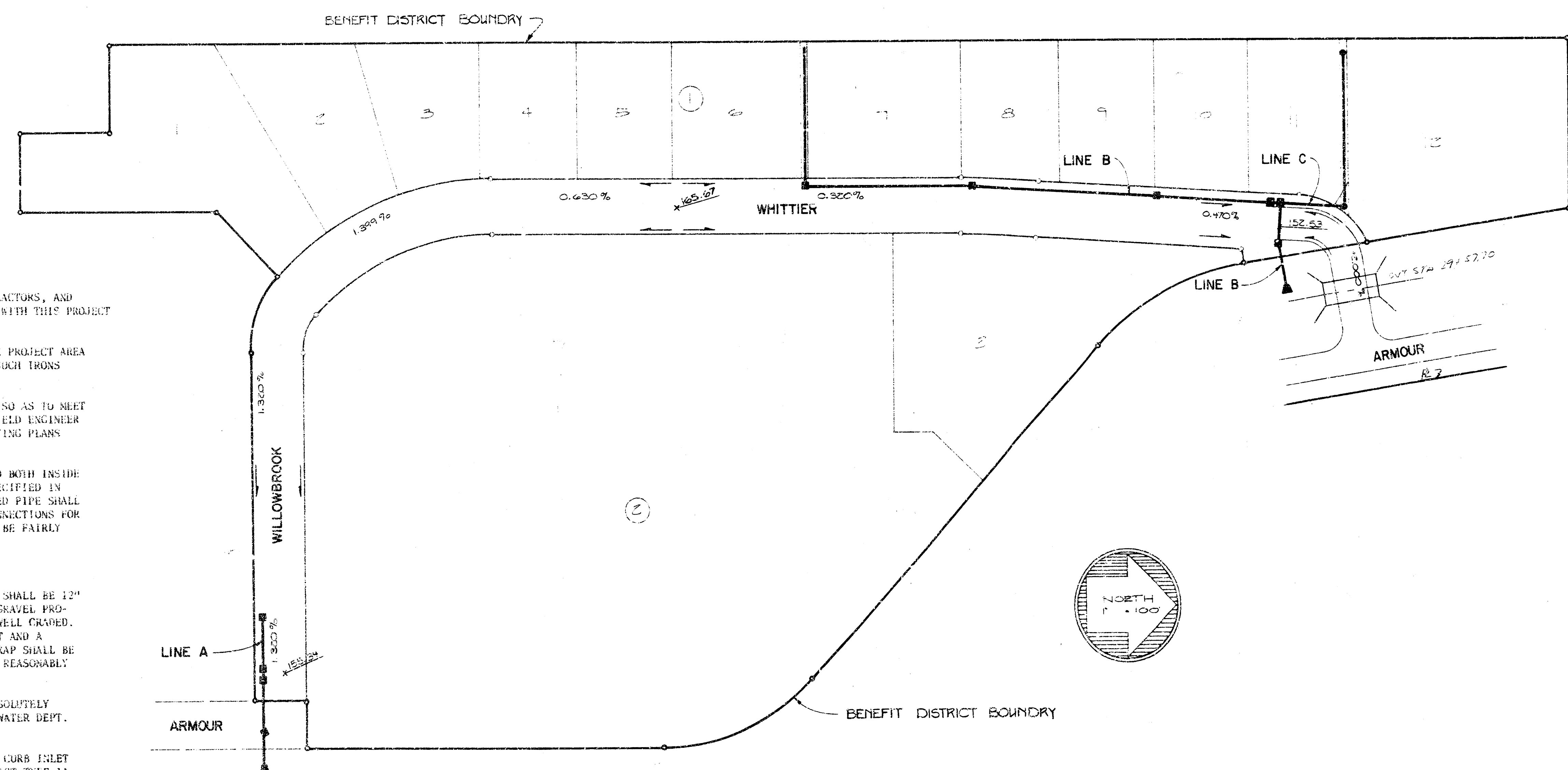
STORM WATER SEWER NO. 165 - PART I

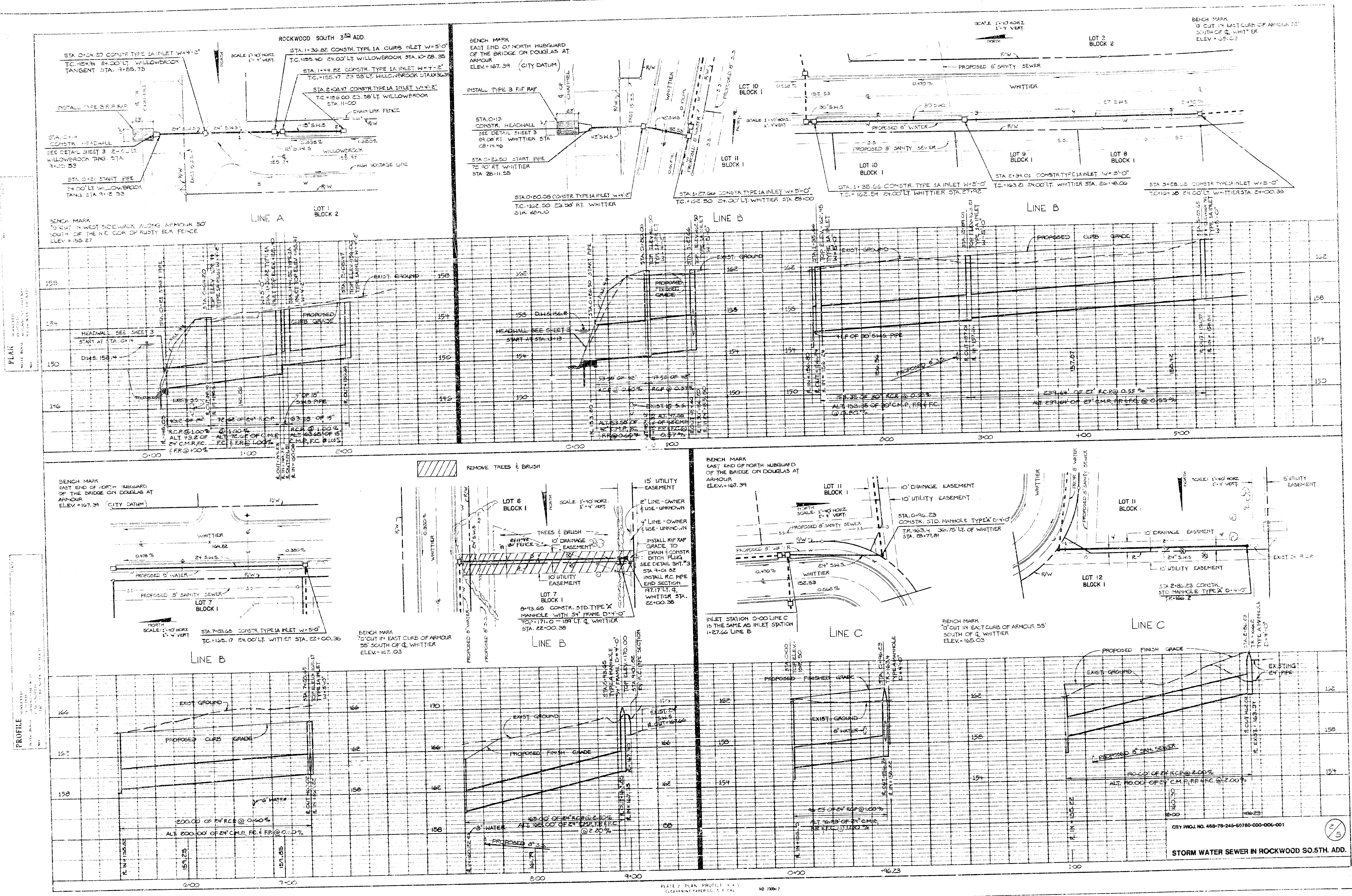
STORM WATER SEWER IN ROCKWOOD So. 5TH ADD.

CITY OF WICHITA KS.
DEAN SELLERS, ACTING CITY ENGINEER
BY LAW/ KINGDON P.A., WICHITA, KANSAS
PROJ. NO. 468-76-245-80786-000-000-001

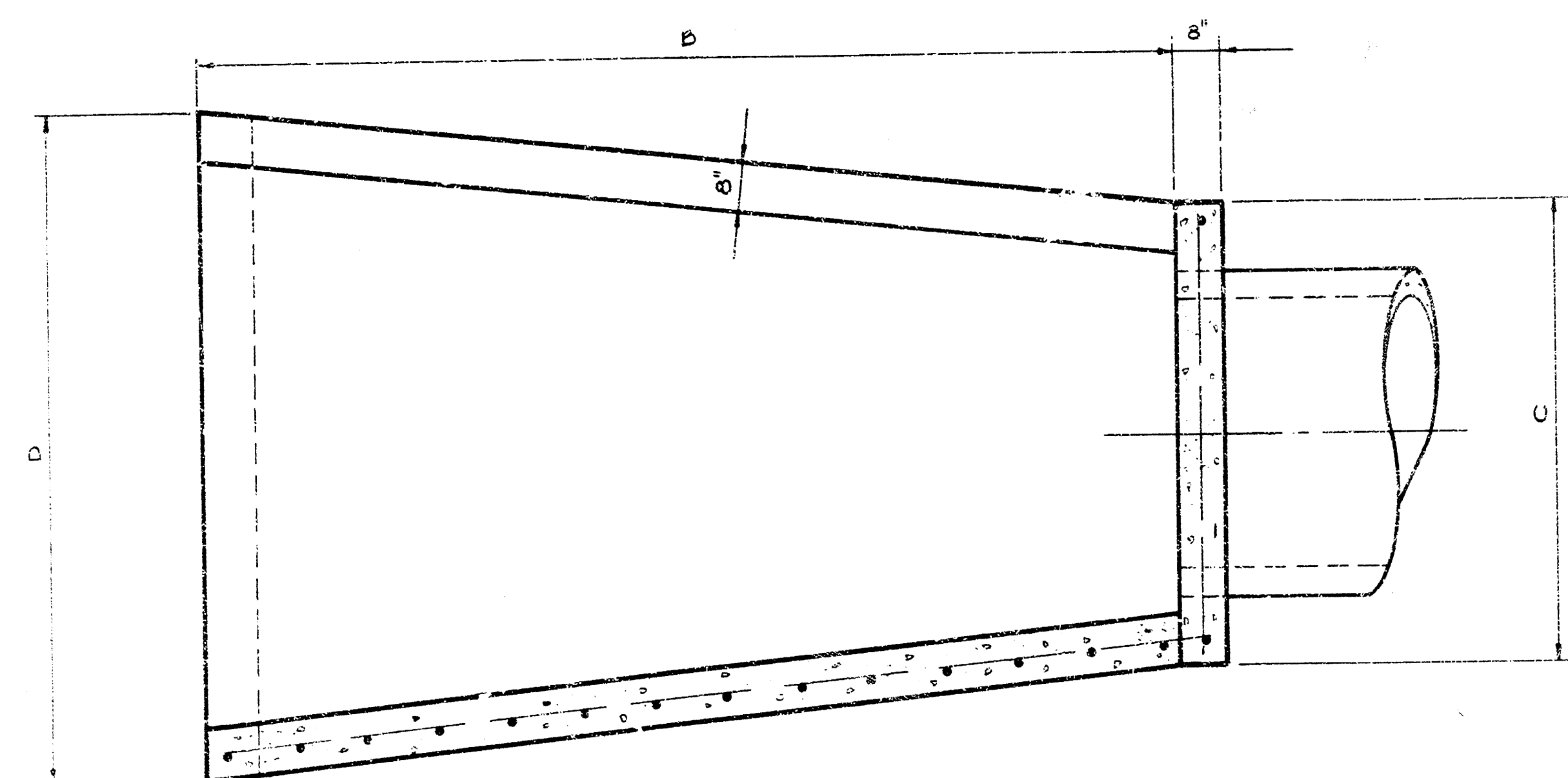
DATE:

- GENERAL NOTES**
1. CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS, AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT SITE DEVELOPMENT.
 2. FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THIMBLES DISTURBED DURING CONSTRUCTION.
 3. THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS.
 4. ALL METAL PIPES SHALL BE HELICALLY CORRUGATED PIPE FULLY COATED BOTH INSIDE AND OUTSIDE. THE COATING SHALL BE BITUMINOUS OR POLYURETHIC AS SPECIFIED IN AASHTO DESIGNATION: M-6-78, TYPE 9. ALL SUCH COATED CORRUGATED PIPE SHALL BE SMOOTH FLOW PIPES FOR SIZE 24" DIAMETER OR LARGER. ALL CONNECTIONS FOR THESE FULLY COATED OR FULLY PAVED AND FULLY COATED PIPES SHALL BE FAIRLY WATERTIGHT CONSTRUCTED USING HUGGER TYPE COUPLER OR EQUAL.
 5. ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.
 6. THE RIPRAP FOR THIS PROJECT SHALL BE TYPE 3. THE TYPE 3 RIPRAP SHALL BE 12" RIPRAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIPRAP AND GRAVEL PROTECTION SHALL BE HARD, DENSE, DURABLE, AND SHALL BE REASONABLY WELL GRADED. THE SIZE RANGE OF ROCK USED SHALL BE A MAXIMUM OF ONE CUBIC FOOT AND A MINIMUM OF 1 1/2 INCHES. THE 6 INCH SAND AND GRAVEL BEDDING FOR RIPRAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2 INCHES IN SIZE.
 7. CONTRACTOR SHALL AVOID UNCOVERING EXISTING WATERLINES UNLESS ABSOLUTELY NECESSARY. UNCOVERING SHALL BE DONE ONLY IN THE PRESENCE OF A WATER DEPT. ENGINEER.
 8. CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING PRE-CAST TYPE 1A CURB INLET IN LIEU OF THE BRICK TYPE STRUCTURE. SEE STANDARD DETAIL PRE-CAST TYPE 1A CURB INLET DATED AUGUST 1979.

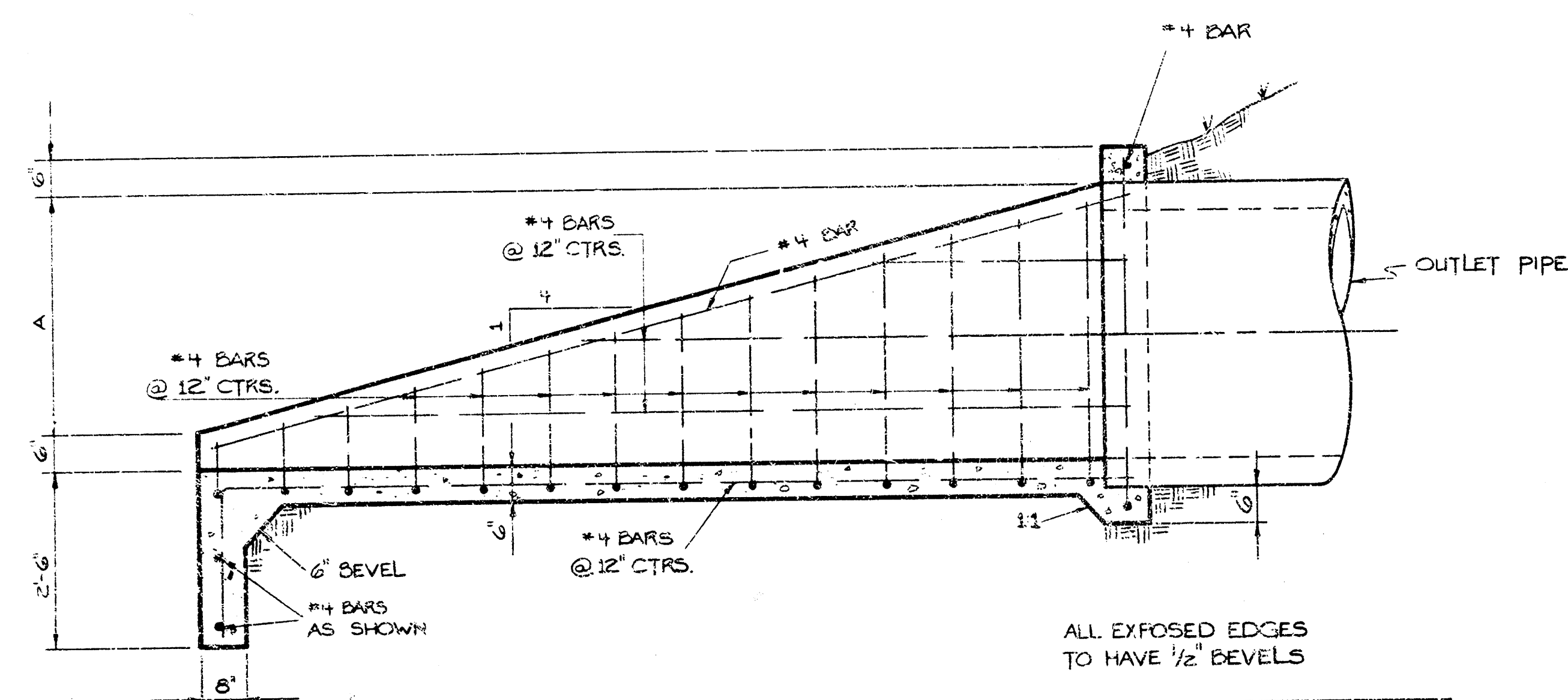




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PLAN



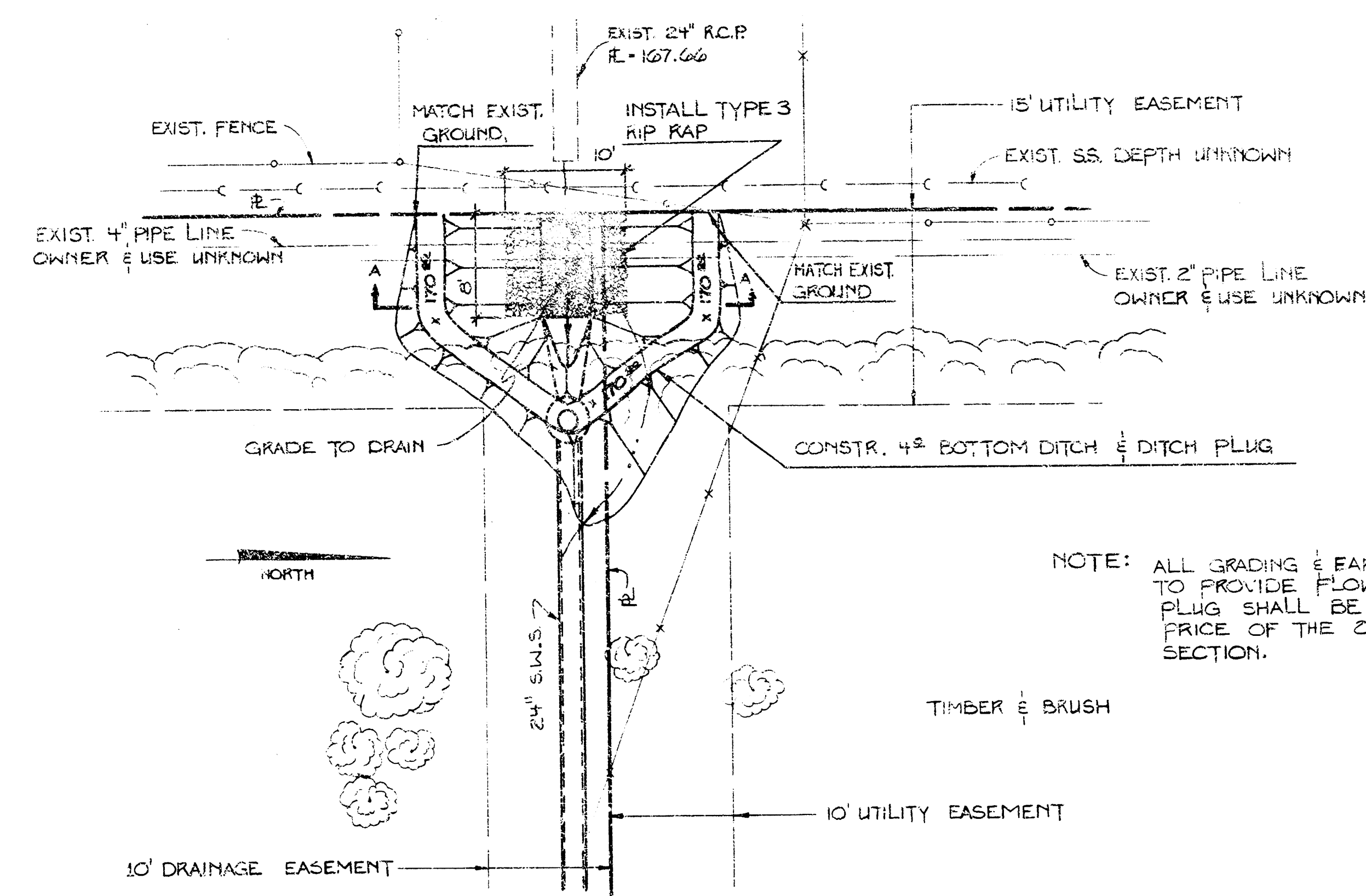
SECTION

OUTLET STRUCTURE

SCALE: 1/2"=1'

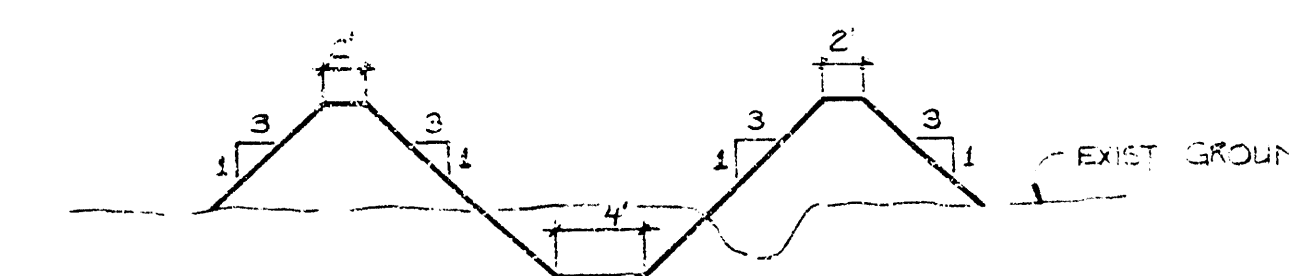
PIPE	A	B	C	D
42"	3'-11/2"	13'-6"	6'-1"	8'-9"
24"	1'-9"	7'-0"	4'-4"	5'-9"

ALL EXPOSED EDGES
TO HAVE 1/2' BEVELS



DITCH PLUG & RIP RAP DETAIL

SCALE: 1"=10'



SECTION A-A

NO SCALE

STORM WATER SEWER NO. 165 - PART 2

PROJECT NO. 468-76-245-80786-000-000-001

CITY OF WICHITA, KANSAS

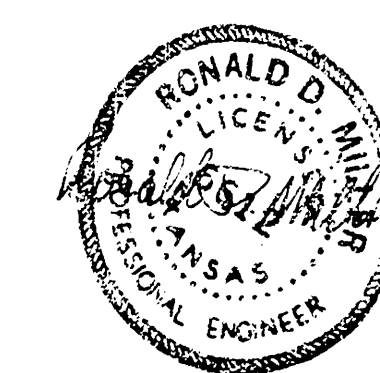
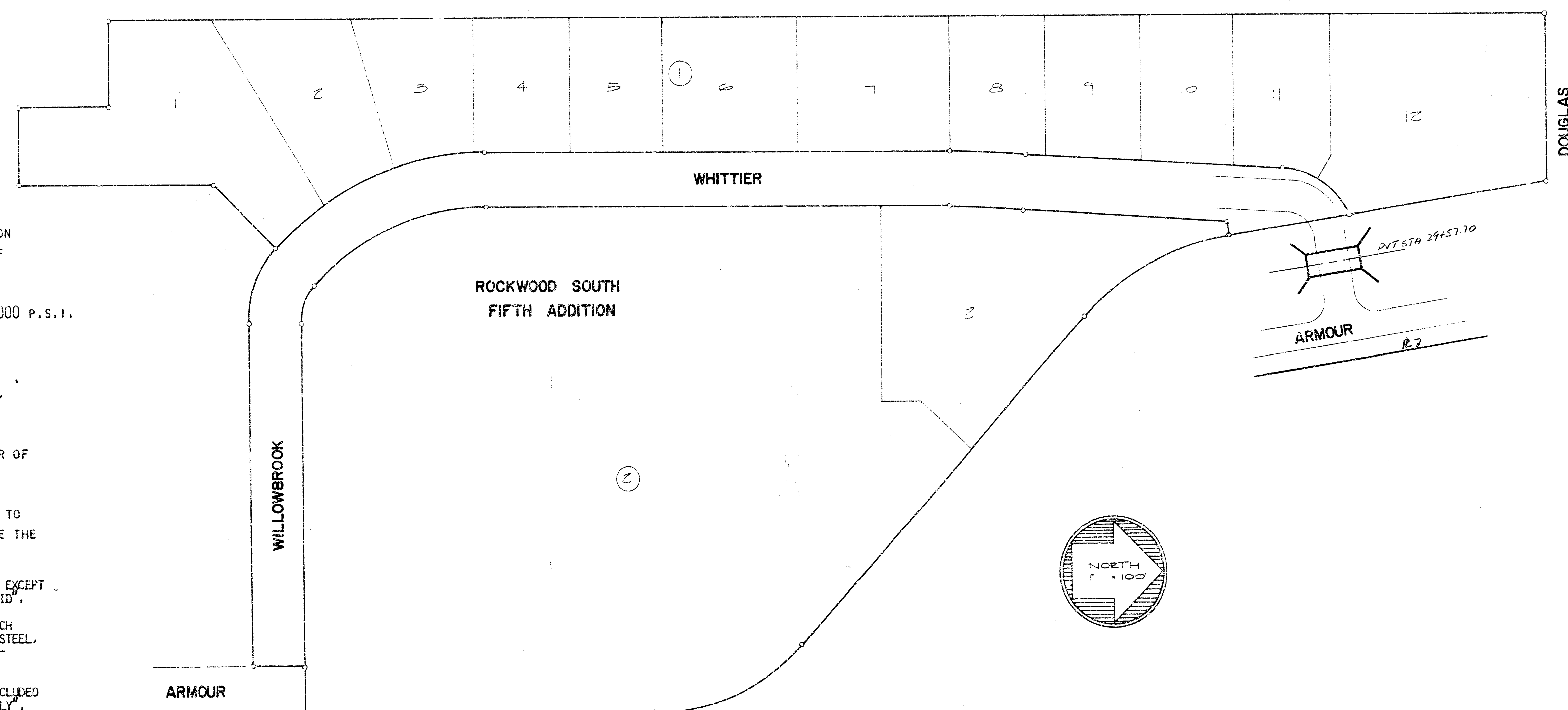
DEPT. OF PUBLIC WORKS-ENG.DIV.

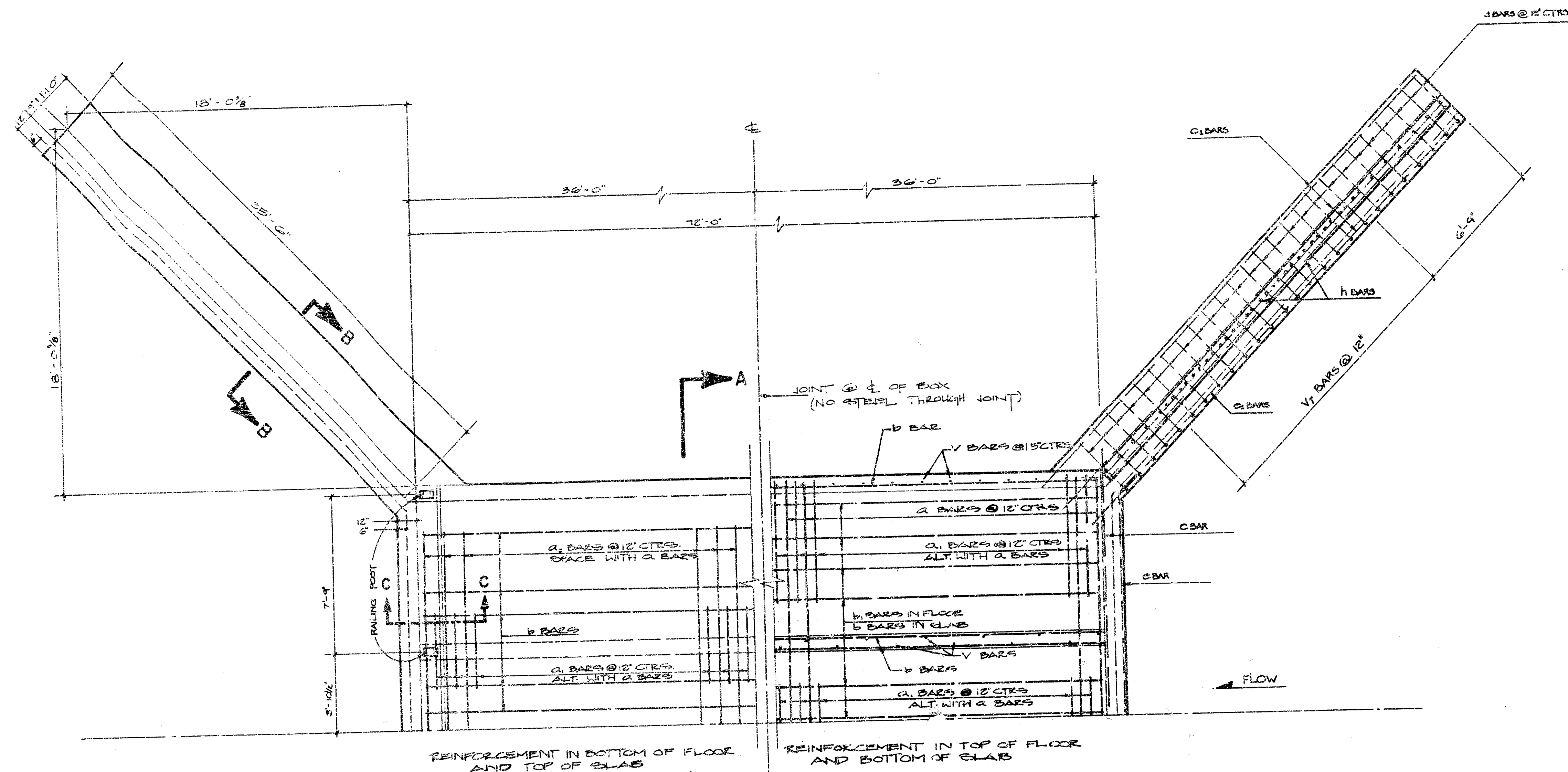
DEAN SELLERS, ACTING CITY ENGINEER

BY LAW/KINGDON, P.A., WICHITA, KANSAS

DATE: _____

- NOTES:
1. ALL BRIDGE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE KANSAS DEPARTMENT OF TRANSPORTATION.
 2. UNIT STRESS: $f'c = 3000$ P.S.I.; $fc = 1200$ P.S.I.; $fs = 20000$ P.S.I.
 3. CLASS A AIR ENTRAINED CONCRETE SHALL BE USED THROUGHOUT.
 4. BEVEL ALL EXPOSED EDGES WITH $3/4$ INCH TRIANGULAR MOULDING, UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTER OF BAR UNLESS OTHERWISE NOTED.
 6. COARSE AGGREGATE SHALL BE DEPOSITED BEHIND EACH WEEP HOLE TO OCCUPY A SPACE EXTENDING 15 INCHES IN ALL DIRECTIONS ABOVE THE WEEP HOLE FLOW LINE.
 7. EARTHWORK - ALL EARTHWORK SHALL BE CONSIDERED AS "COMMON EXCAVATION" EXCEPT FOR THE TOWHALL. TOWHALL EXCAVATION SHALL BE INCLUDED IN "LUMP SUM BID".
 8. BIDDING OF CULVERT - THE CULVERT SHALL BE BID AS A "LUMP SUM BID" WHICH SHALL INCLUDE THE FOLLOWING ITEMS: CLASS A-AC CONCRETE, REINFORCING STEEL, HAND EXCAVATION, AND ALUMINUM HAND RAIL. ALL OTHER ITEMS SHALL BE INCLUDED AS BID ITEMS.
 9. THE QUANTITIES SHOWN IN THE "BILL OF MATERIALS OR ITEMS" WHICH ARE INCLUDED IN THE "LUMP SUM BID" OF THE CULVERT ARE FOR "INFORMATION PURPOSES ONLY". THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE "QUANTITIES" AND THE ENGINEER ASSUMES NO RESPONSIBILITIES FOR THEIR ACCURACY. THE CONTRACTOR WILL HAVE THE FULL RESPONSIBILITY FOR PROVIDING ALL MATERIALS ON THE DETAILLED PLANS NECESSARY TO COMPLETE THE PROJECT.

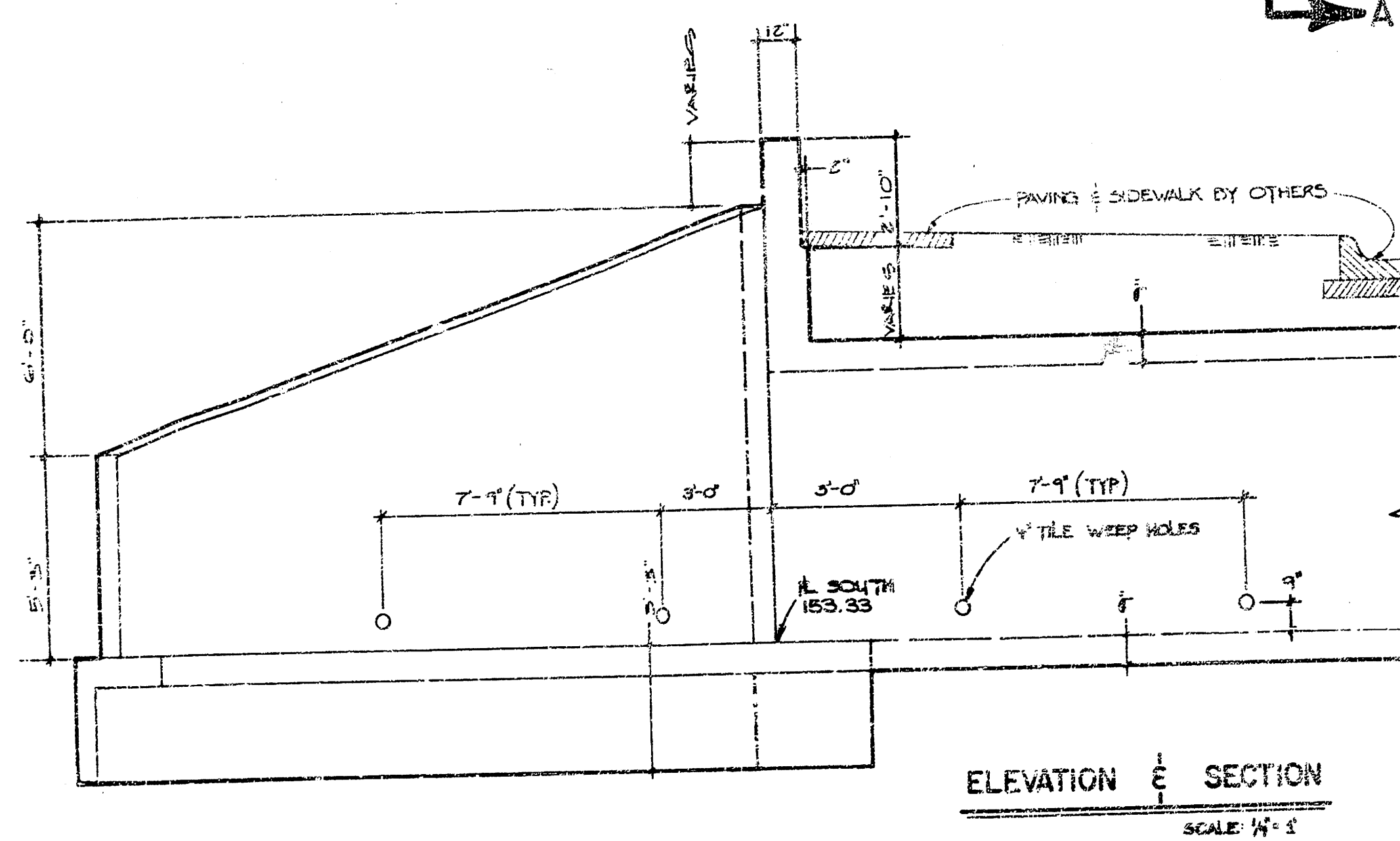




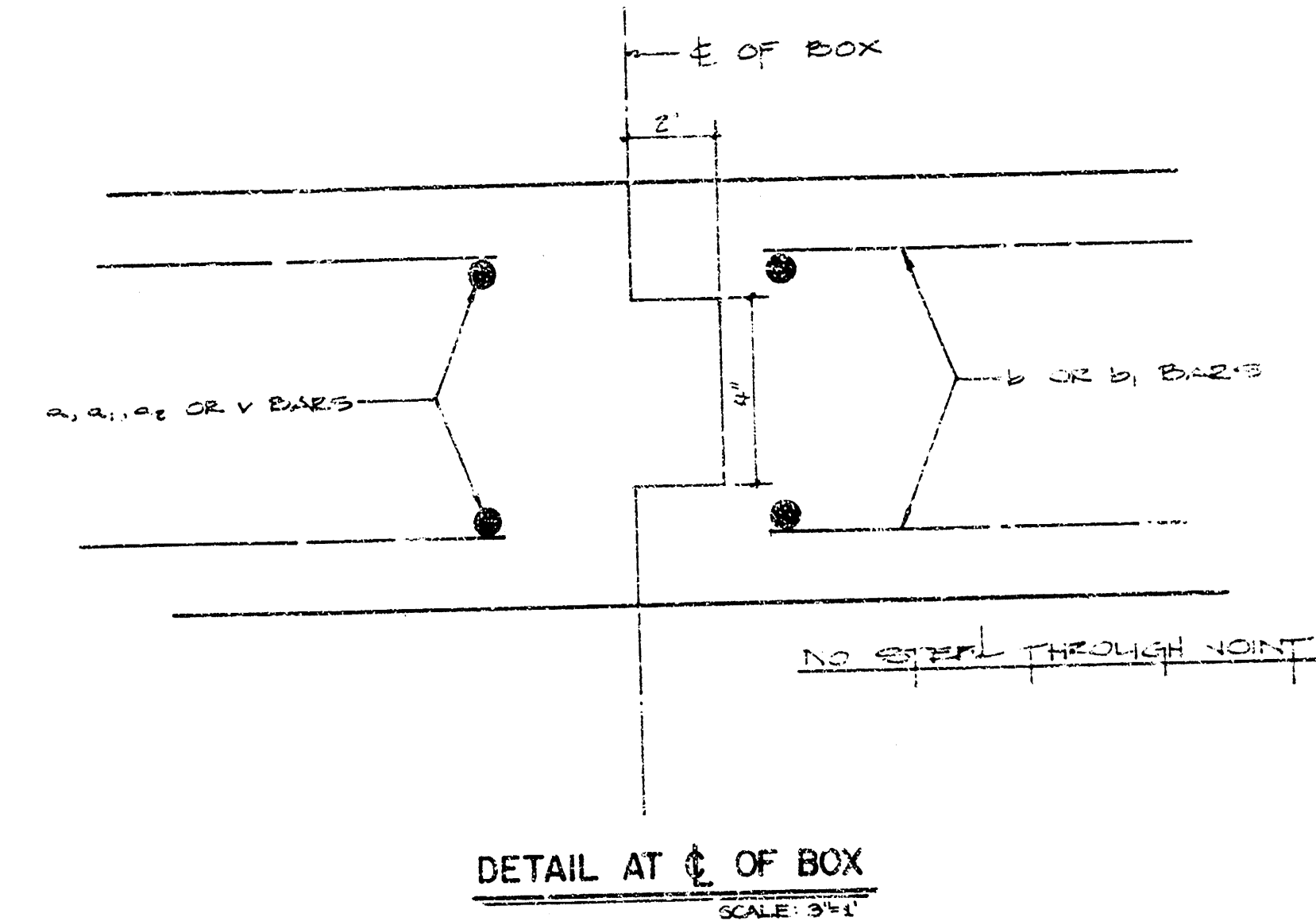
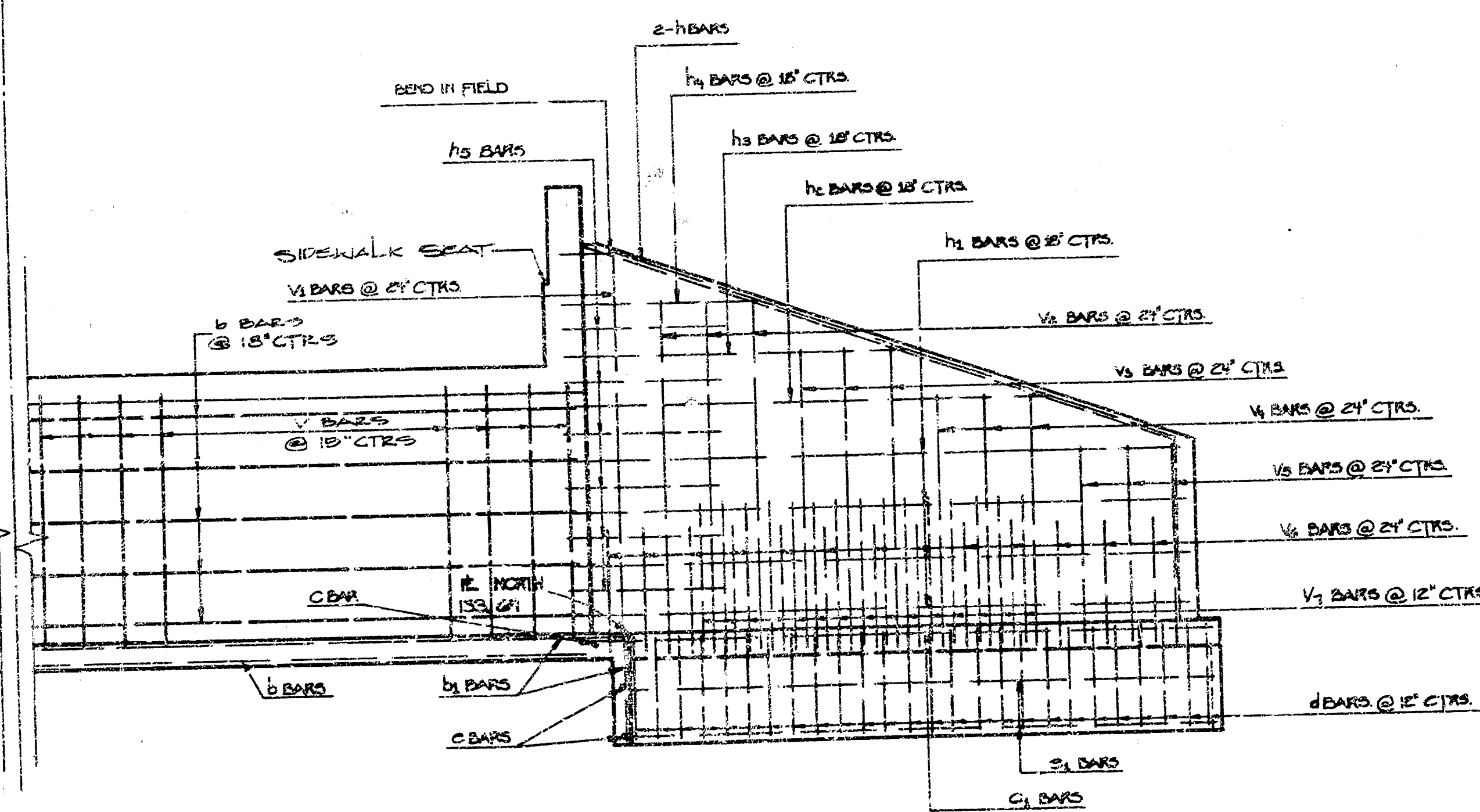
REINFORCEMENT IN BOTTOM OF FLOOR AND TOP OF SLAB

REINFORCEMENT IN TOP OF FLOOR AND BOTTOM OF SLAB

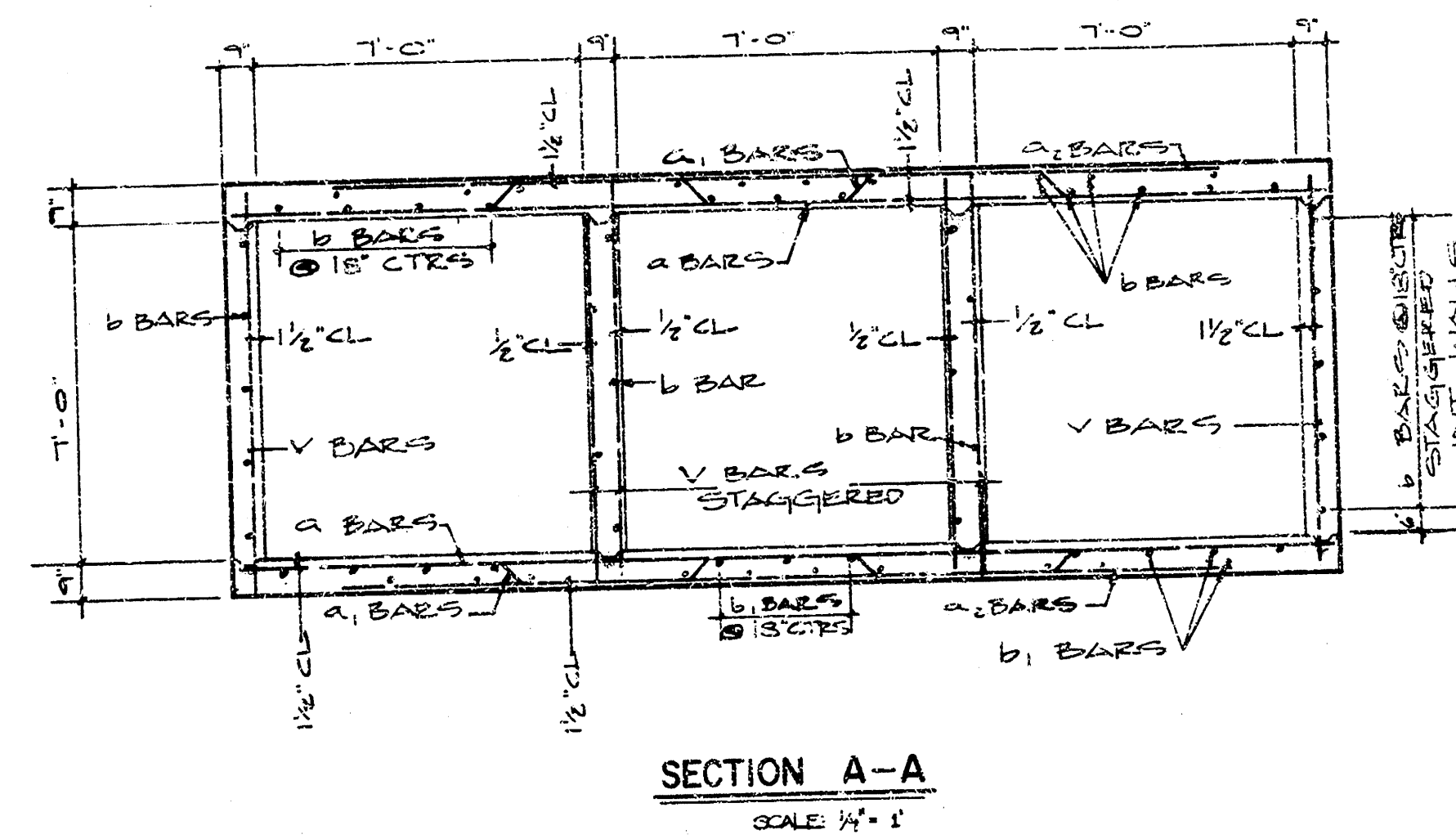
HALF PLAN & SECTION
SCALE 1/4" = 1'



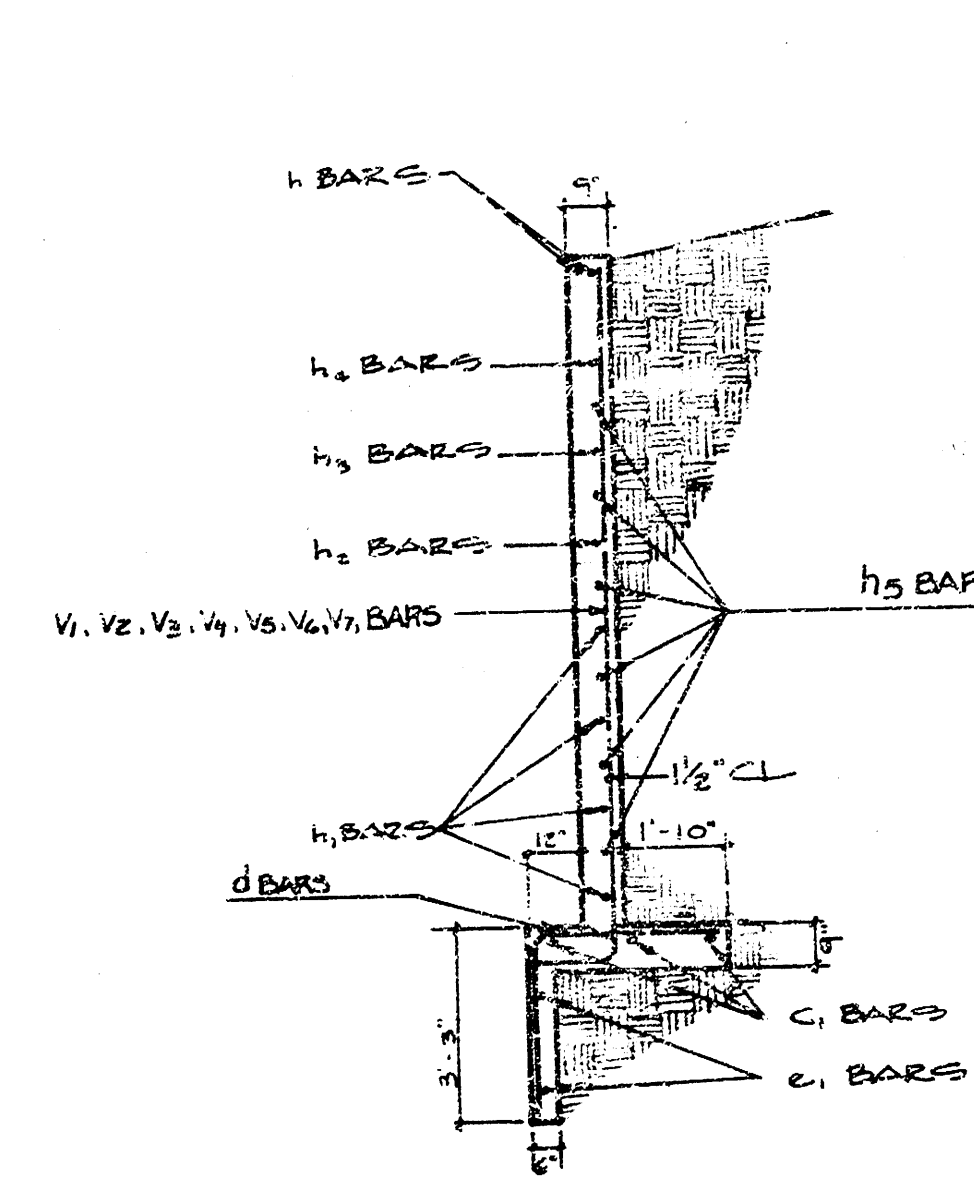
ELEVATION & SECTION
SCALE 1/4" = 1'



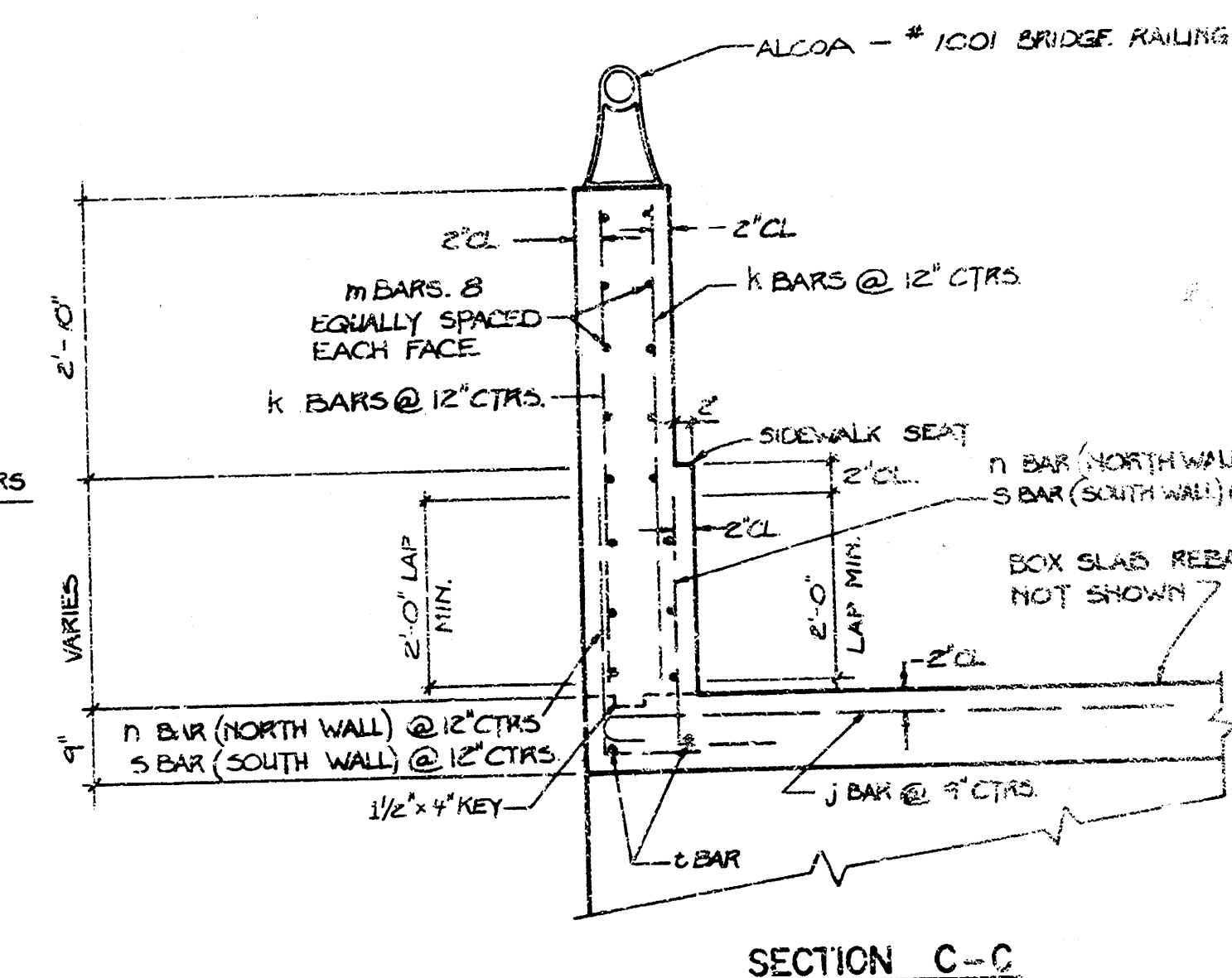
DETAIL AT E. OF BOX
SCALE 3/4" = 1'



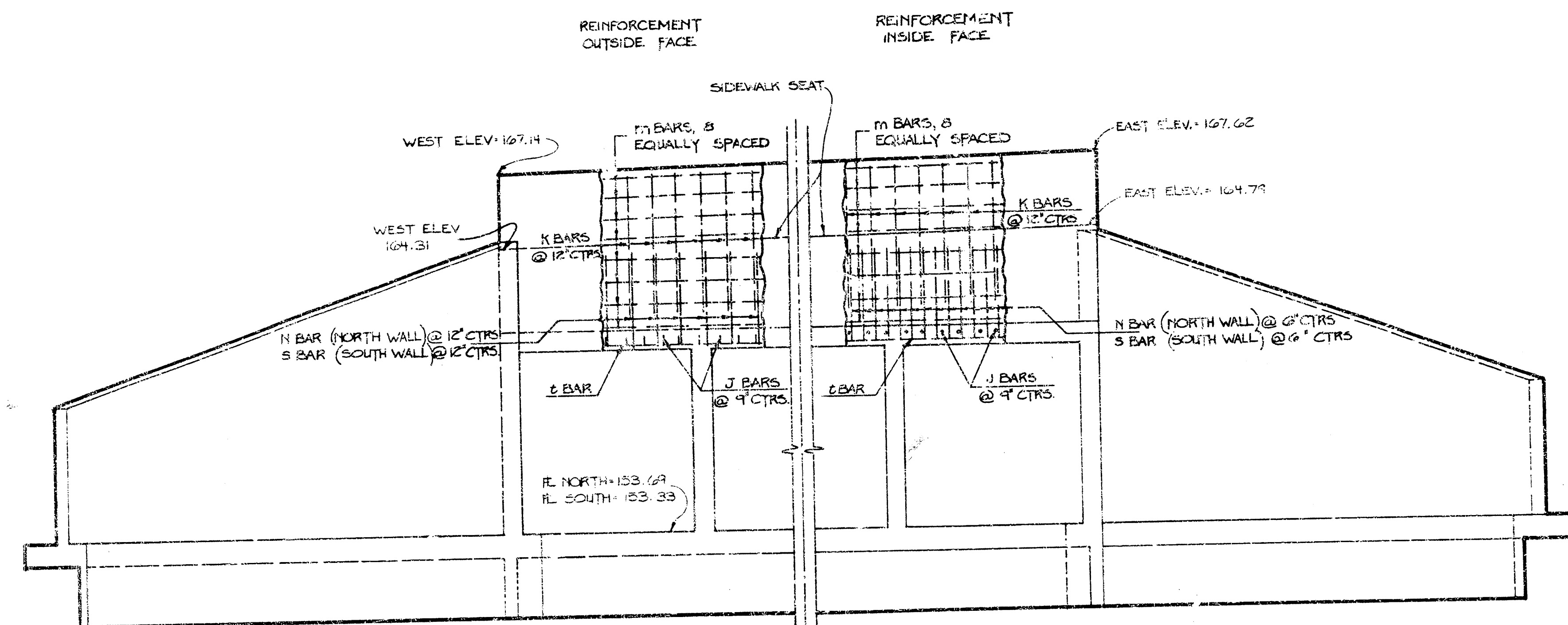
SECTION A-A
SCALE 1/4" = 1'



SECTION B-B
SCALE 1/4" = 1'



SECTION C-C
SCALE 1/4" = 1'



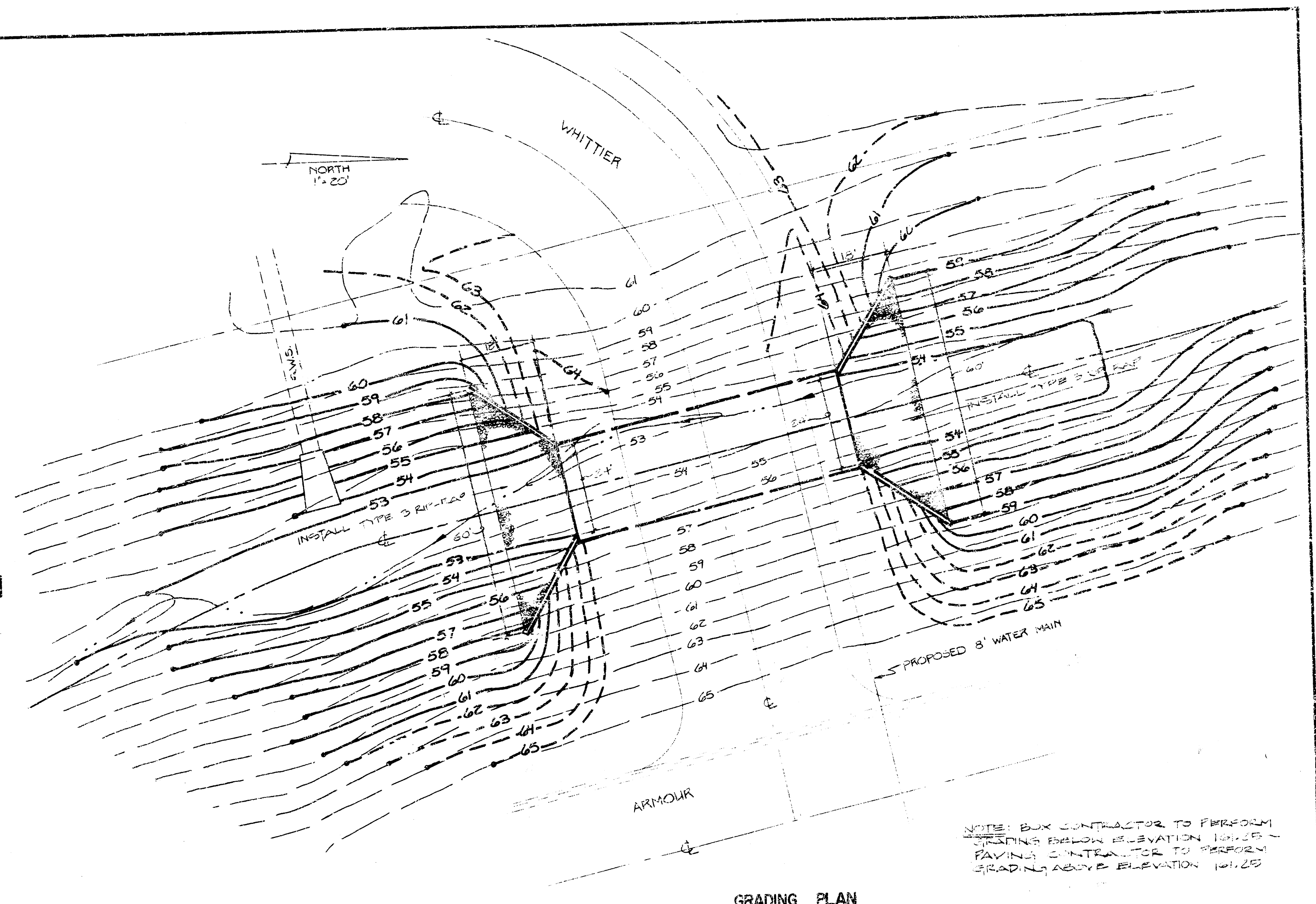
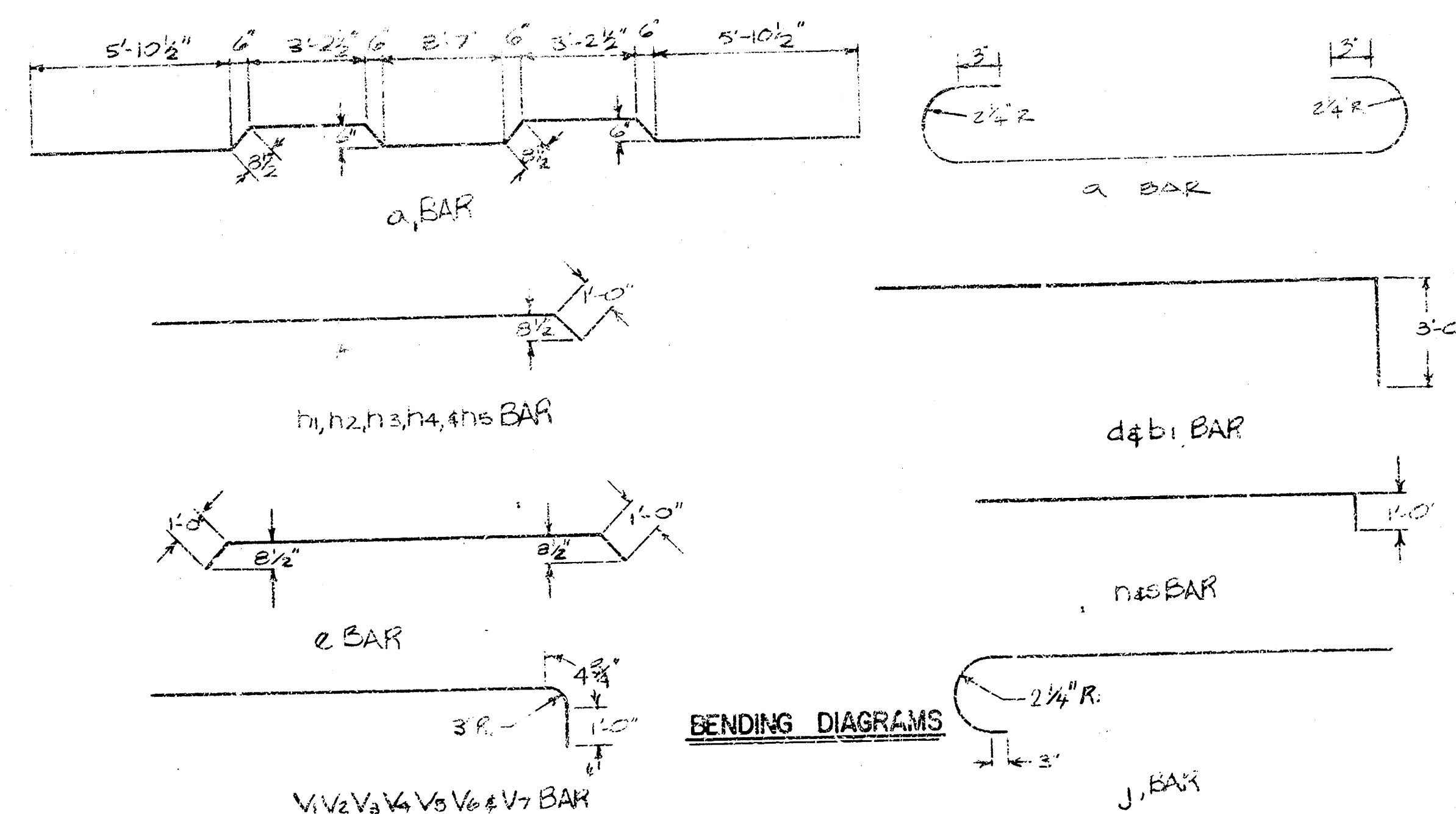
END VIEW & SECTION
LOOKING NORTH

BAR	a	a ₁	a ₂	b	b ₁	c	c ₁	d	e	e ₁
NUMBER	20	10	10	10	22	2	10	10	4	8
TOTAL LENGTH	349' 10"	327' 10"	407' 10"	347' 10"	382' 10"	33' 10"	238' 10"	400' 10"	62' 10"	306' 10"
SIZE	#6	#6	#6	#4	#4	#4	#4	#4	#4	#4
LENGTH	25'-1/2"	24'-7"	18'-8"	35'-7 1/2"	34'-7 1/2"	26'-0"	28'-0"	6'-4"	25'-3"	25'-6"

BAR	s	t	v	v ₁	v ₂	v ₃	v ₄	v ₅	v ₆	v ₇
NUMBER	73	4	200	4	12	2	12	12	30	20
TOTAL LENGTH	349' 10"	108' 10"	2081' 10"	34' 10"	40' 10"	78' 10"	67' 10"	56' 10"	1442' 10"	218' 10"
SIZE	#3	#5	#3	#4	#4	#4	#4	#4	#4	#3
LENGTH	4'-7"	23'-6"	8'-3"	10'-7 3/4"	11'-2 1/2"	9'-9 1/4"	8'-4 1/2"	6'-11 1/2"	4'-1"	5'-1"

BAR	h	h ₁	h ₂	h ₃	h ₄	h ₅	j	k	m	n
NUMBER	8	10	4	4	4	24	60	100	20	73
TOTAL LENGTH	230' 10"	287' 10"	58' 10"	42' 10"	29' 10"	110' 10"	590' 10"	1002' 10"	1002' 10"	322' 10"
SIZE	#3	#4	#4	#4	#4	#4	#4	#5	#4	#5
LENGTH	27'-6 1/2"	24'-10"	21'-0 1/4"	15'-0 3/4"	9'-2 1/4"	6'-10"	5'-7 3/4"	5'-4"	23'-6"	4'-2 1/4"

BAR LIST



GRADING PLAN

NOTE: BUX CONTRACTOR TO PERFORM
GRADING FROM ELEVATION 101.05
PAVING CONTRACTOR TO PERFORM
GRADING ABOVE ELEVATION 101.05