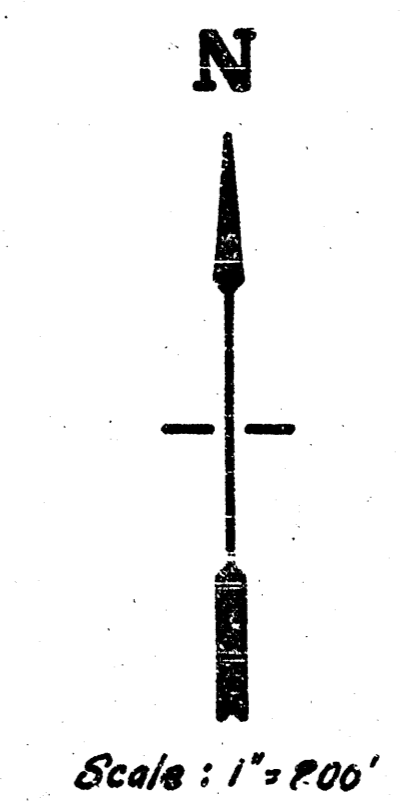
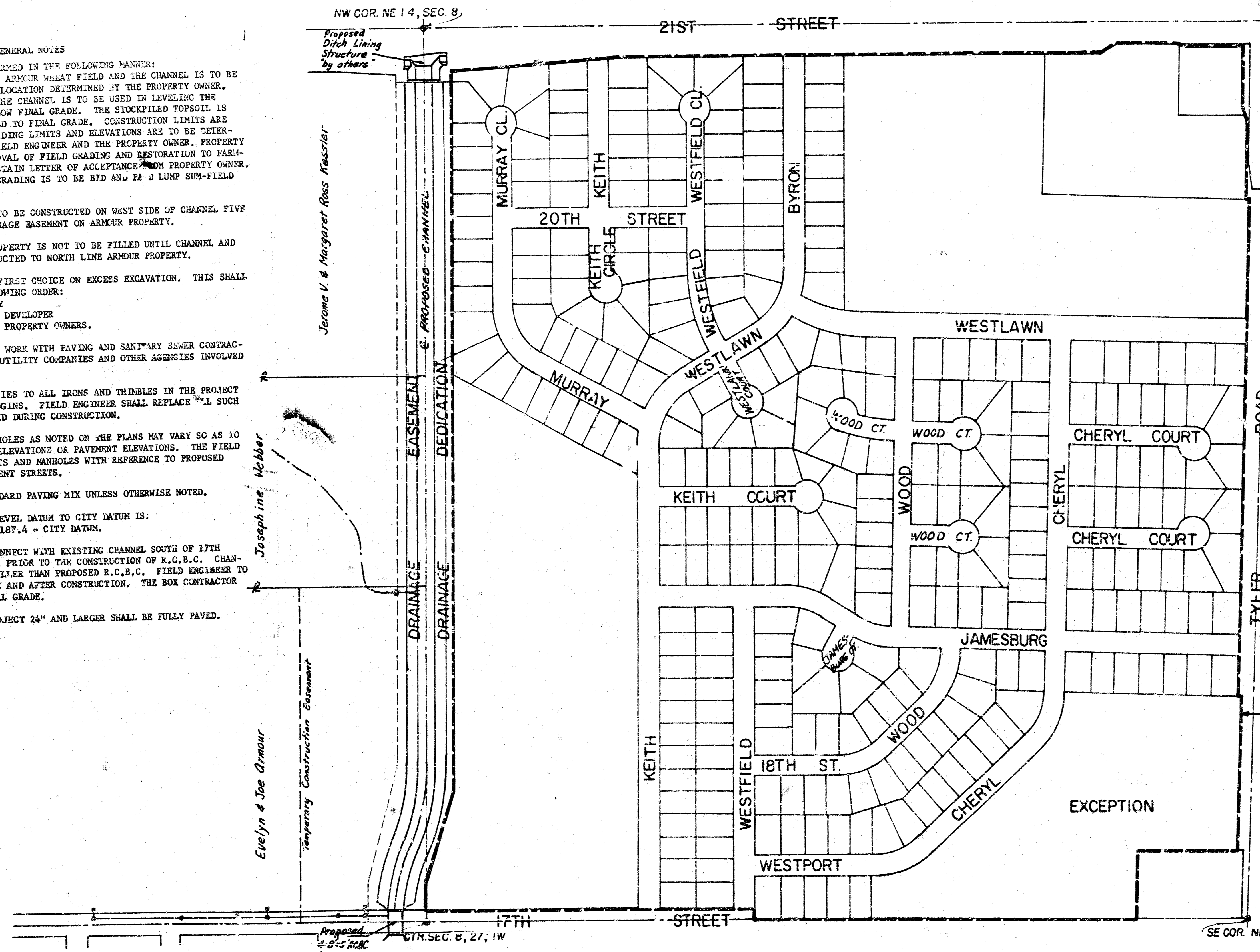


STORM WATER DRAIN NO. 45 IN JAMESBURG PARK ADDITION

NE COR. SEC. 8, 27, 14

NW COR. NE 1/4, SEC. 8

- GENERAL NOTES**
1. FIELD GRADING IS TO BE PERFORMED IN THE FOLLOWING MANNER: THE TOP 6" OF TOPSOIL IN THE ARMOUR WHEAT FIELD AND THE CHANNEL IS TO BE REMOVED AND STOCKPILED IN A LOCATION DETERMINED BY THE PROPERTY OWNER. THE EXCESS EXCAVATION FROM THE CHANNEL IS TO BE USED IN LEVELING THE FIELD TO A MAXIMUM OF 6" BELOW FINAL GRADE. THE STOCKPILED TOPSOIL IS TO BE USED TO BRING THE FIELD TO FINAL GRADE. CONSTRUCTION LIMITS ARE APPROXIMATE ONLY; ACTUAL GRADING LIMITS AND ELEVATIONS ARE TO BE DETERMINED IN THE FIELD BY THE FIELD ENGINEER AND THE PROPERTY OWNER. PROPERTY OWNER IS TO HAVE FINAL APPROVAL OF FIELD GRADING AND RESTORATION TO FARMABLE LAND. CONTRACTOR TO OBTAIN LETTER OF ACCEPTANCE FROM PROPERTY OWNER. ALL WORK INVOLVED IN FIELD GRADING IS TO BE BTD ANJ PA 3 LUMP SUM-FIELD GRADING.
 2. 3-STRAND BARBED WIRE FENCE TO BE CONSTRUCTED ON WEST SIDE OF CHANNEL FIVE FEET EAST OF WEST LINE DRAINAGE EASEMENT ON ARMOUR PROPERTY.
 3. EXISTING DITCH ON ARMOUR PROPERTY IS NOT TO BE FILLED UNTIL CHANNEL AND INLET STRUCTURES ARE CONSTRUCTED TO NORTH LINE ARMOUR PROPERTY.
 4. PROPERTY OWNERS SHALL HAVE FIRST CHOICE ON EXCESS EXCAVATION. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING ORDER:
 1. ARMOUR PROPERTY
 2. JAMESBURG PARK DEVELOPER
 3. OTHER ADJACENT PROPERTY OWNERS.
 5. CONTRACTOR SHALL COORDINATE WORK WITH PAVING AND SANITARY SEWER CONTRACTORS, AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.
 6. 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.
 7. 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.
 8. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
 9. CONVERSION FROM MEAN SEA LEVEL DATUM TO CITY DATUM IS:
MEAN SEA LEVEL -1187.4 = CITY DATUM.
 10. CHANNEL IS TO BE DUG TO CONNECT WITH EXISTING CHANNEL SOUTH OF 17TH STREET TO PROVIDE DRAINAGE PRIOR TO THE CONSTRUCTION OF R.C.B.C. CHANNEL SHOULD BE SLIGHTLY SMALLER THAN PROPOSED R.C.B.C. FIELD ENGINEER TO TAKE CROSS-SECTIONS BEFORE AND AFTER CONSTRUCTION. THE BOX CONTRACTOR SHALL PROVIDE FILL TO FINAL GRADE.
 11. ALL METAL PIPE ON THIS PROJECT 24" AND LARGER SHALL BE FULLY PAVED.

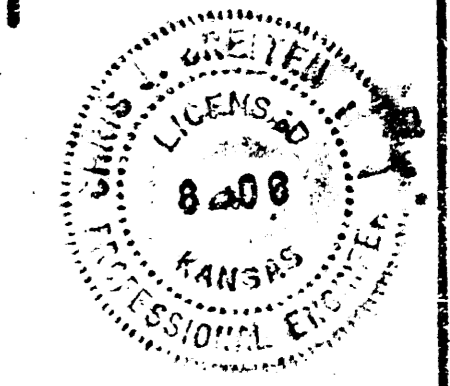


INDEX

| Sheet | Description |
|-------|--------------------------|
| 1 | Cover Sheet |
| 2,3 | Proposed Channel |
| 4,5 | Proposed SWS on 17th St. |
| 6 | Type IA Curb Inlet |
| 7 | Field Inlet |
| 8-15 | Channel Cross Sections |

R.W. BRUGGEMAN, DIRECTOR OF THE DEPARTMENT OF
ENGINEERING / CITY ENGINEER
CITY OF WICHITA, KANSAS
PROJECT NO. 468 76 245 80986 000 000 001

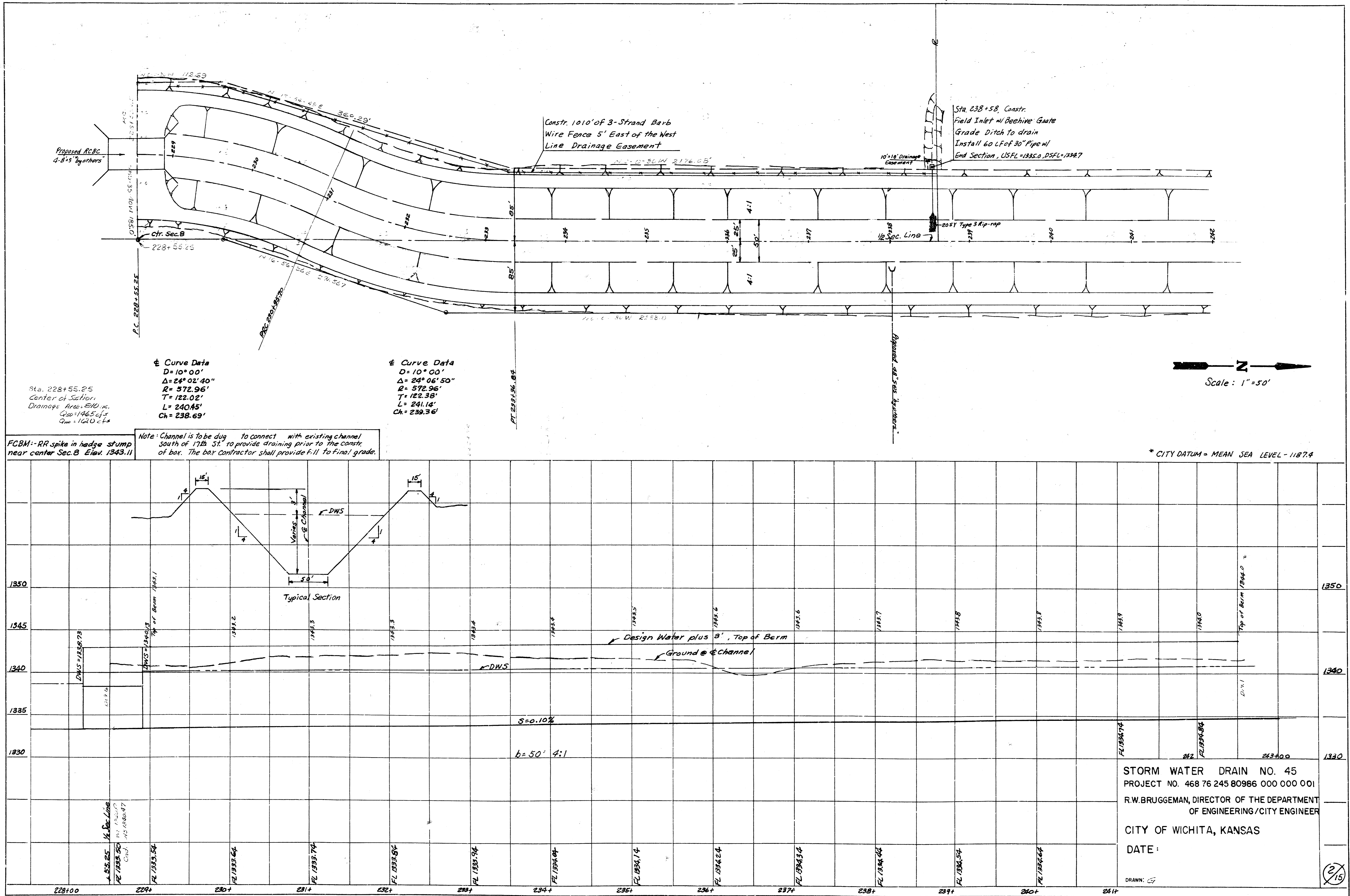
DATE: _____



Sh 273 Only

*As Built
12/15/01
CBS*





Sta. 228+55.25
Center of Section
Drainage Area = 810 sq. ft.
C₁₀₀ = 146.5 cfs
C₁₀₀ = 1420 cfs

Curve Data
D = 10° 00'
Δ = 24° 02' 40"
R = 572.96'
T = 122.02'
L = 240.45'
Ch = 238.69'

Curve Data
D = 10° 00'
Δ = 24° 06' 50"
R = 572.96'
T = 122.38'
L = 241.14'
Ch = 239.36'

Note: Channel is to be dug to connect with existing channel south of 17th St. to provide draining prior to the constr. of box. The box contractor shall provide F-11 to final grade.

FCBM - RR spike in hedge stump near center Sec. B Elev. 1343.11

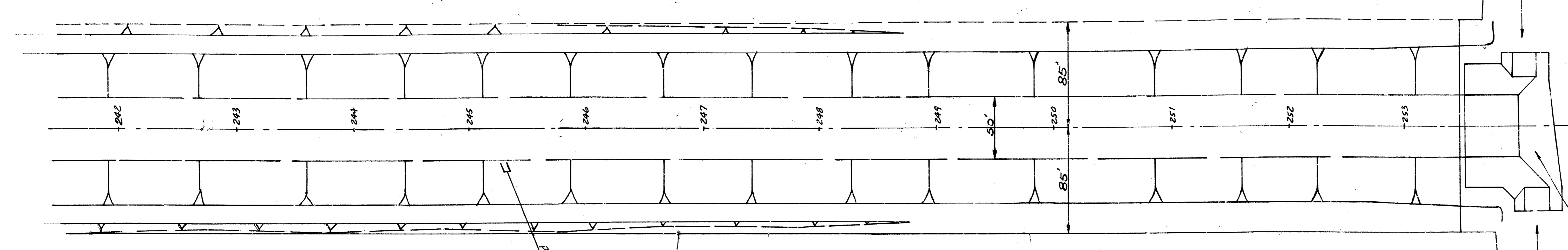
* CITY DATUM = MEAN SEA LEVEL - 1187.4

STORM WATER DRAIN NO. 45
PROJECT NO. 468 76 245 80986 000 000 001
R.W. BRUGGEMAN, DIRECTOR OF THE DEPARTMENT OF ENGINEERING / CITY ENGINEER
CITY OF WICHITA, KANSAS
DATE:

DRAWN: CS

2/15

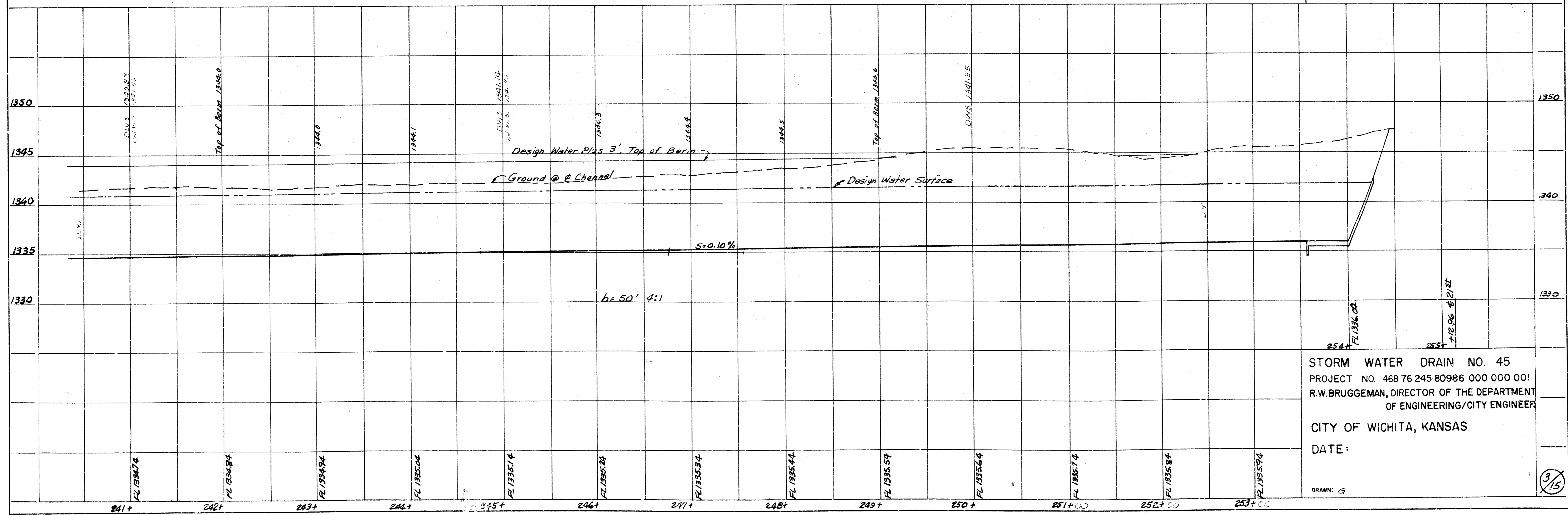
Scale: 1" = 50'



Sta. 255+12.96
at 21st St
Drainage Area: 715 ac
Q₅₀: 1465 cfs
C₁₀₀: 1610 cfs

Proposed Ditch Lining
Structure "by others"

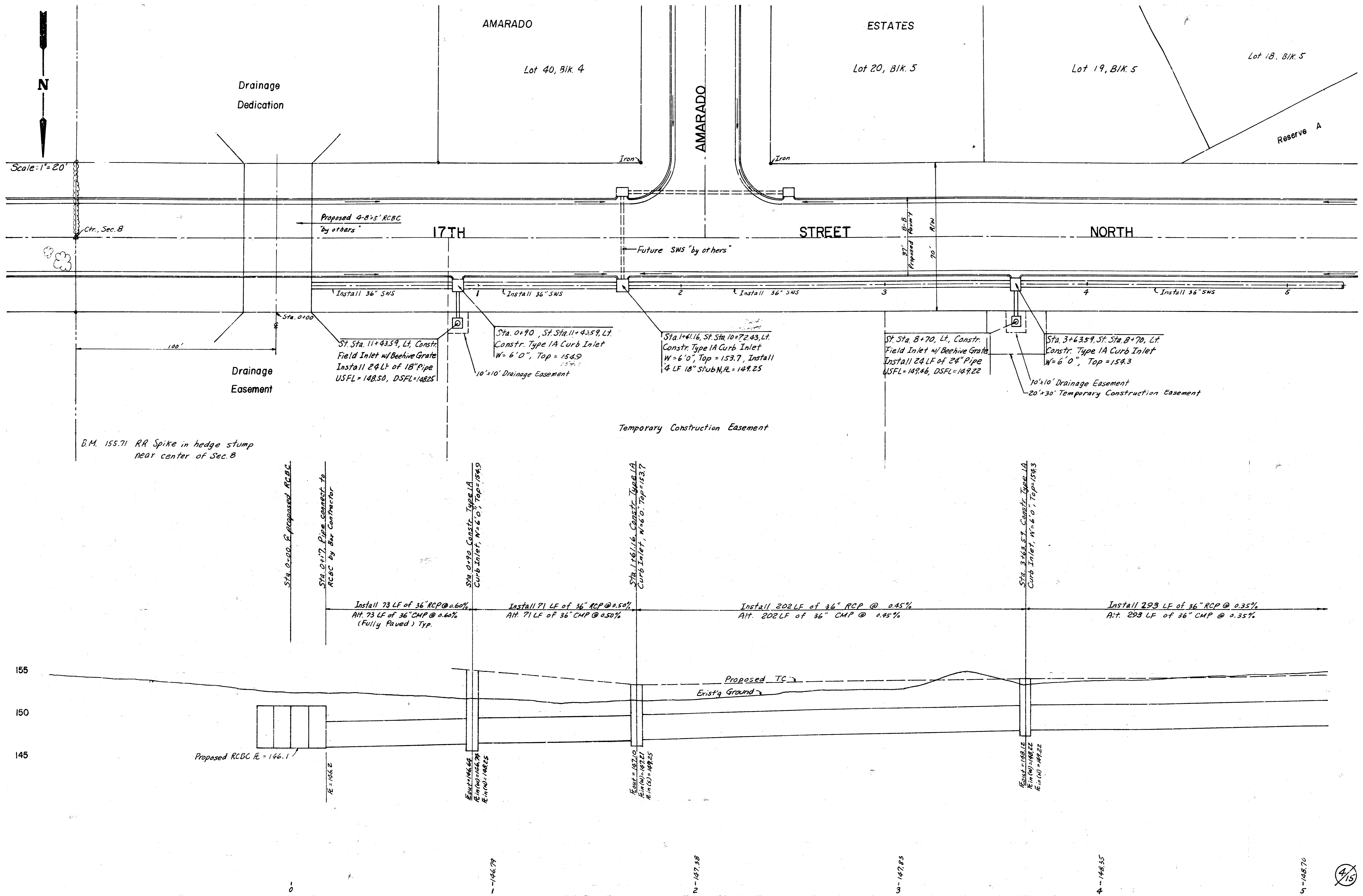
DITCH 15' x 5' S. SIDE "BY OTHERS"

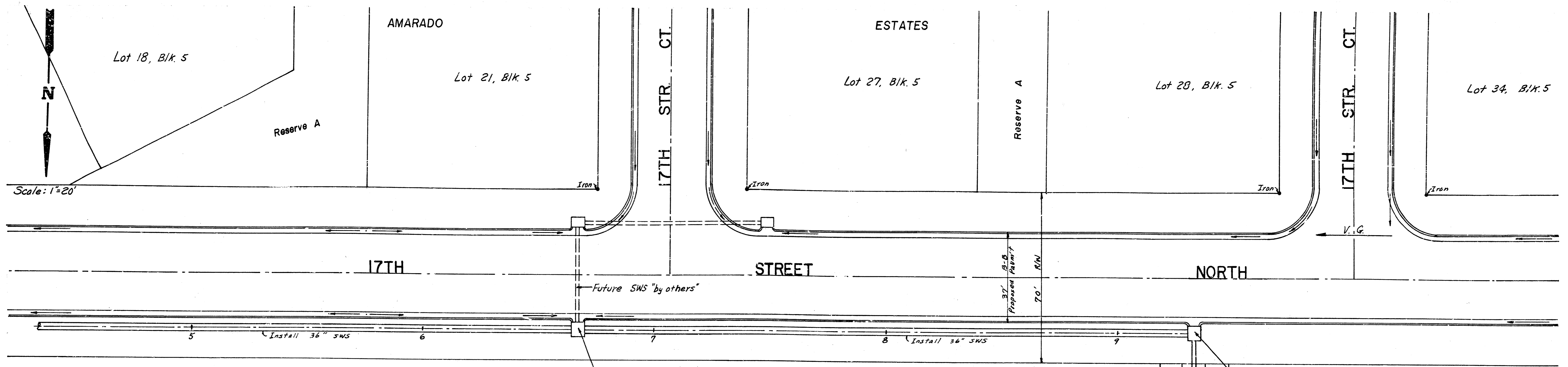


STORM WATER DRAIN NO. 45
PROJECT NO. 468 76 245 80986 000 000 001
R.W. BRUGGEMAN, DIRECTOR OF THE DEPARTMENT
OF ENGINEERING/CITY ENGINEER
CITY OF WICHITA, KANSAS
DATE:

DRAWN: G

3/15



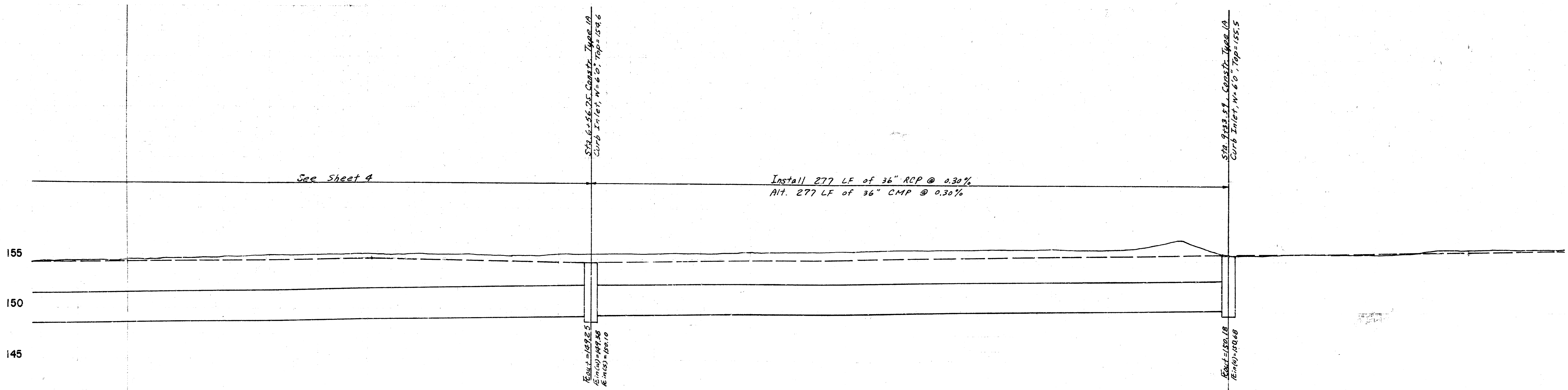


Sta. 6+56.75, St. Sta. 5+76.84 Lt.
Constr. Type IA Curb Inlet
W=6'0", Top=154.6, Install
4 LF 18" Stub N, R=150.10

St. Sta. 3+00 Lt, Constr.
Field Inlet w/Beehive Grate
Install 24 LF of 30" Pipe
USFL=150.72, DSFL=150.68

Sta. 9+33.59, St. Sta. 3+00 Lt.
Constr. Type IA Curb Inlet
W=6'0", Top=155.5

10'x10' Drainage Easement
20'x30' Temporary Construction Easement



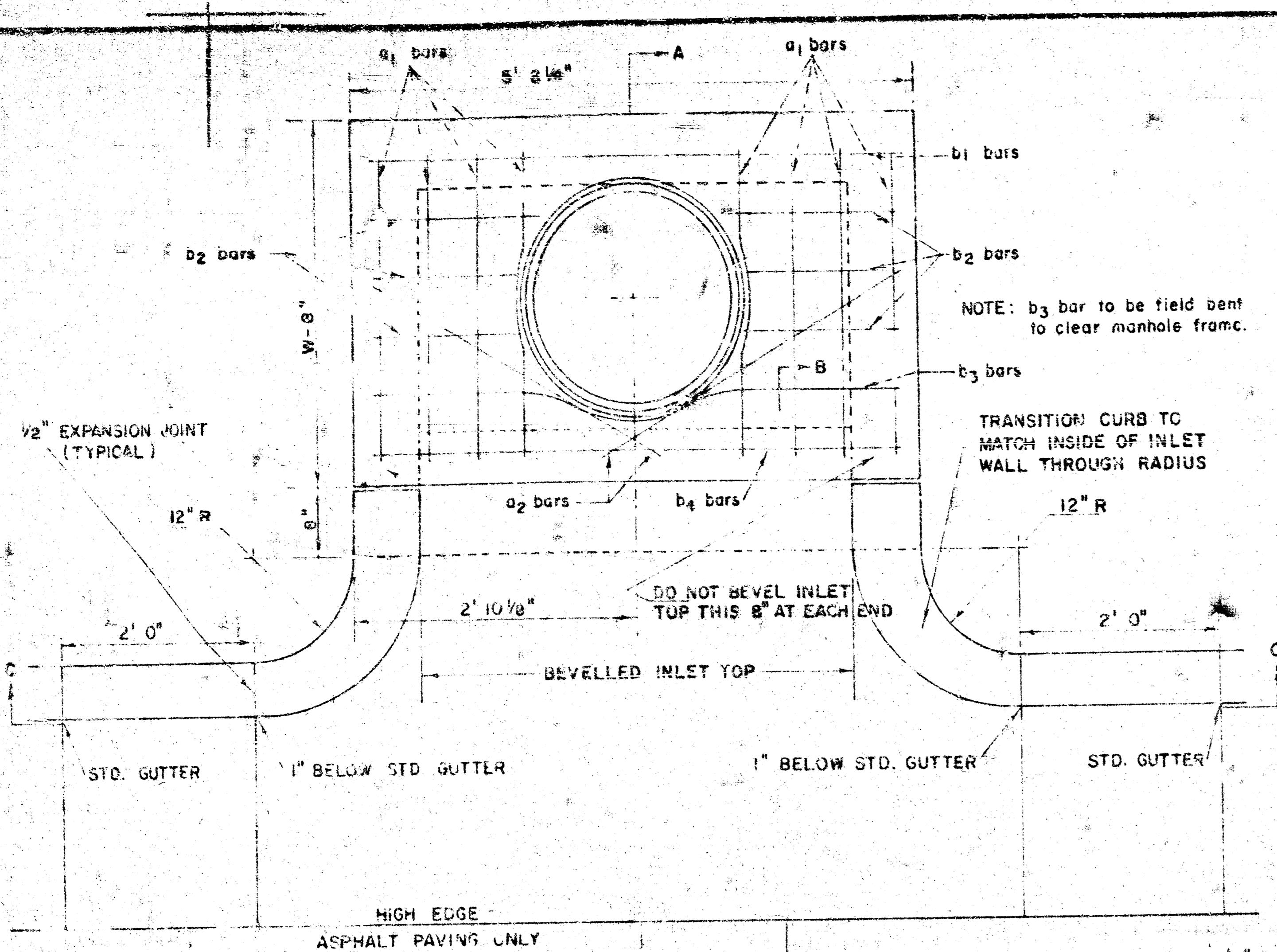
5-148.70

6-149.05

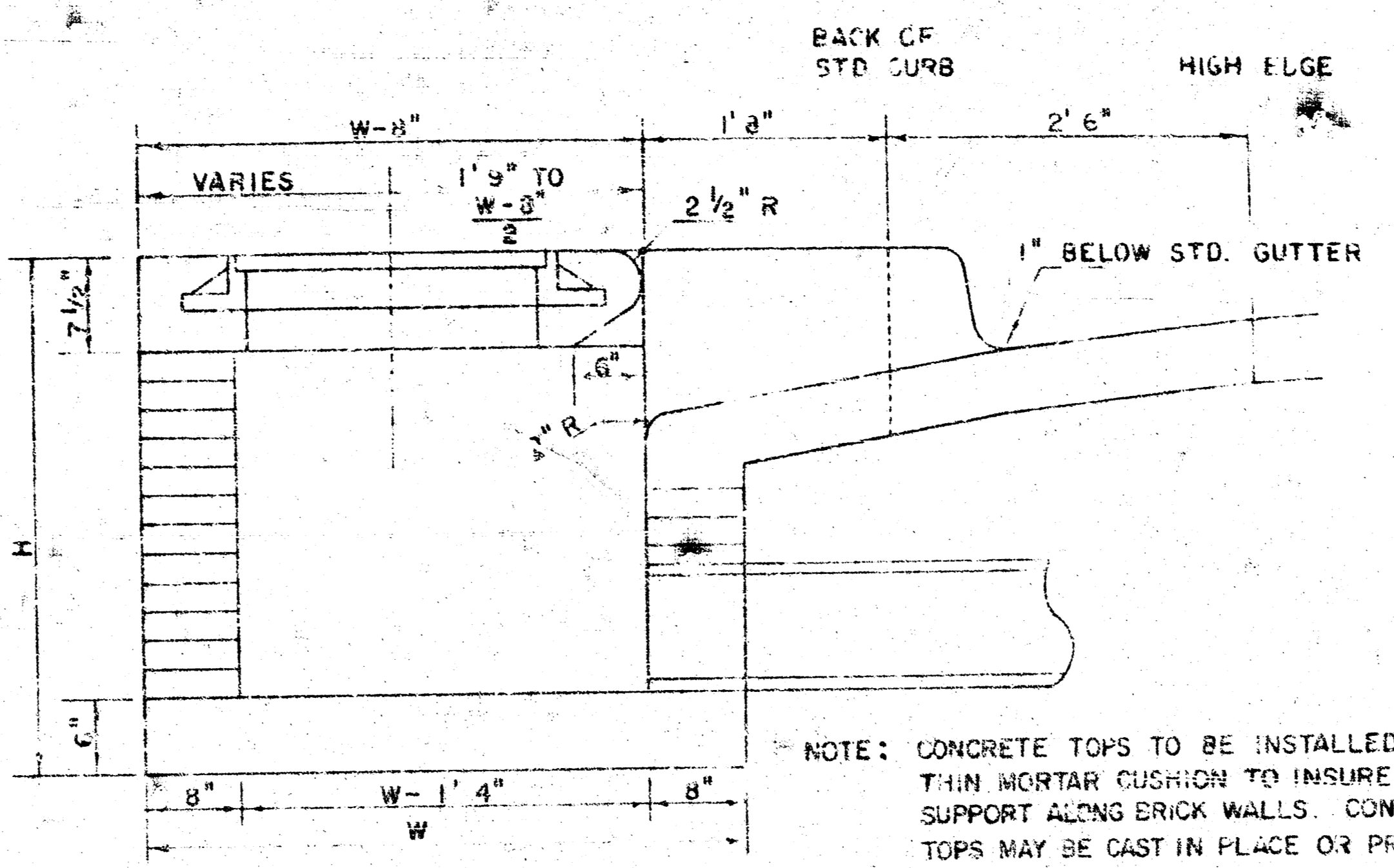
7-149.40

8-149.75

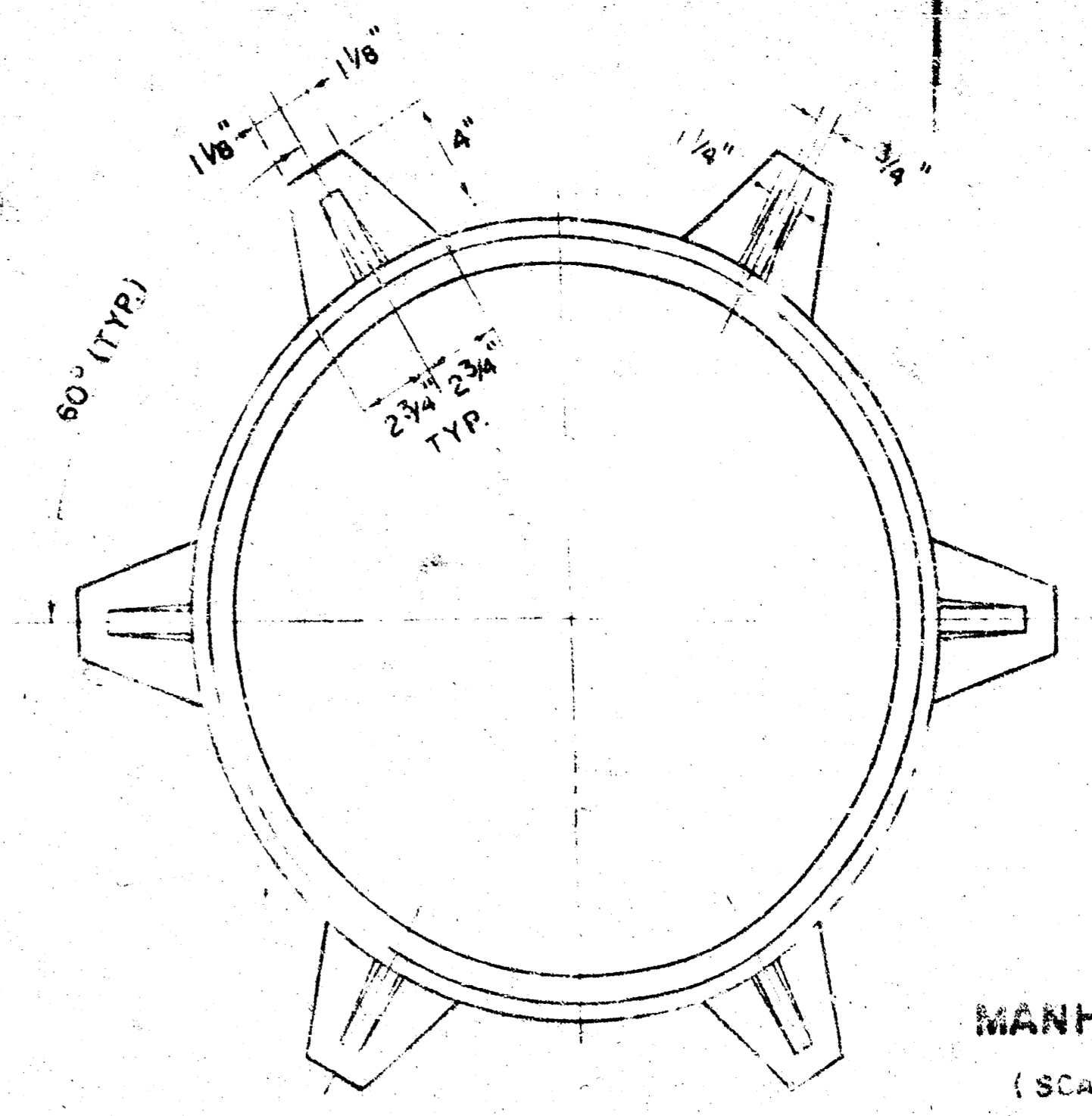
9-150.10



PLAN (SCALE 1" = 1' 0")



SECTION A-A (SCALE 1" = 1' 0")



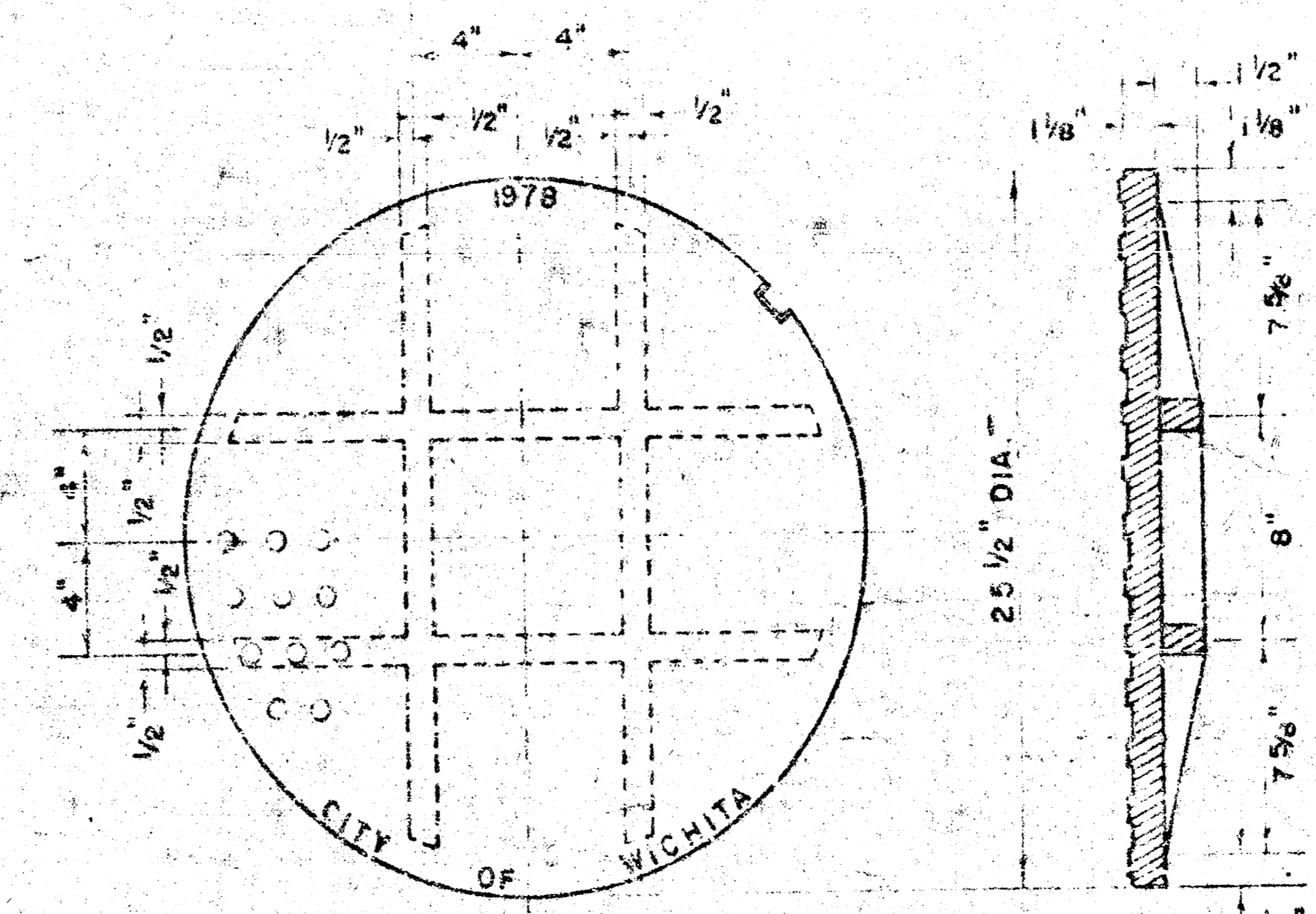
MANHOLE FRAME (SCALE 1" = 6") WEIGHT = 180 LBS.

STEEL SCHEDULE

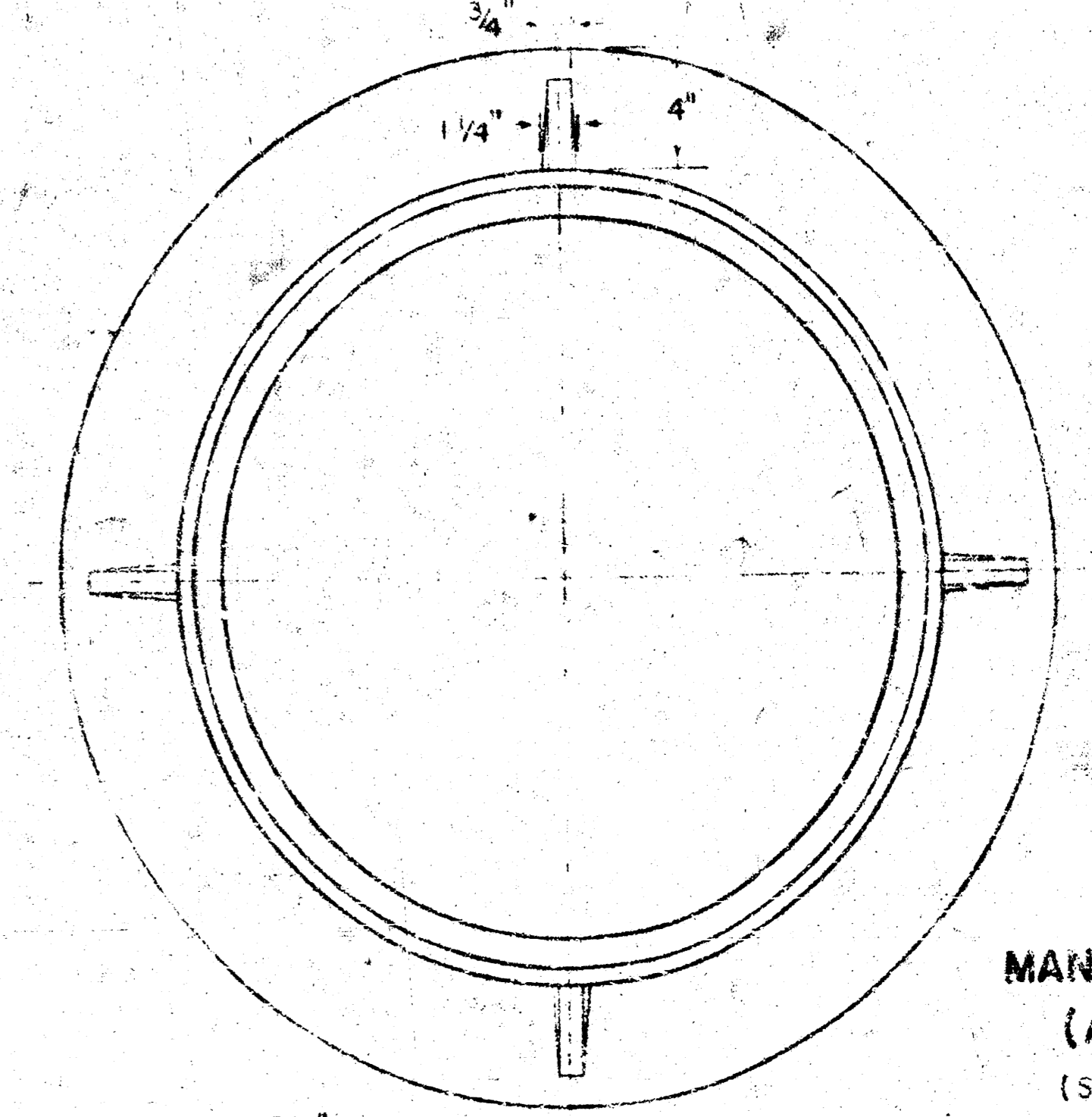
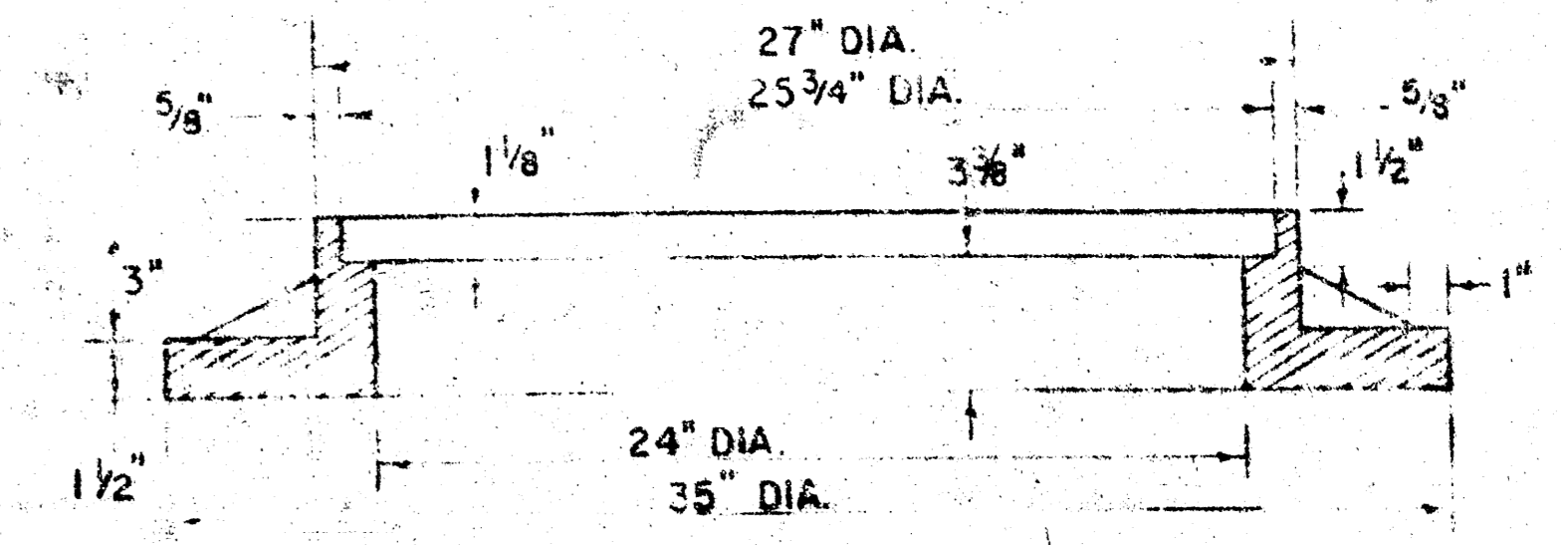
| BAR NUMBER | a ₁ | a ₂ | b ₁ | b ₂ | b ₃ | b ₄ | WT. LBS. |
|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|
| 1 | 4 | 4 | 4 | 4 | 4 | 4 | 60* |
| 2 | 5 | 5 | 5 | 5 | 5 | 5 | 77* |
| 3 | 6 | 6 | 6 | 6 | 6 | 6 | 97* |
| 4 | 7 | 7 | 7 | 7 | 7 | 7 | 111* |
| 5 | 8 | 8 | 8 | 8 | 8 | 8 | 124* |

STANDARD CURB INLET PRECAST TOPS

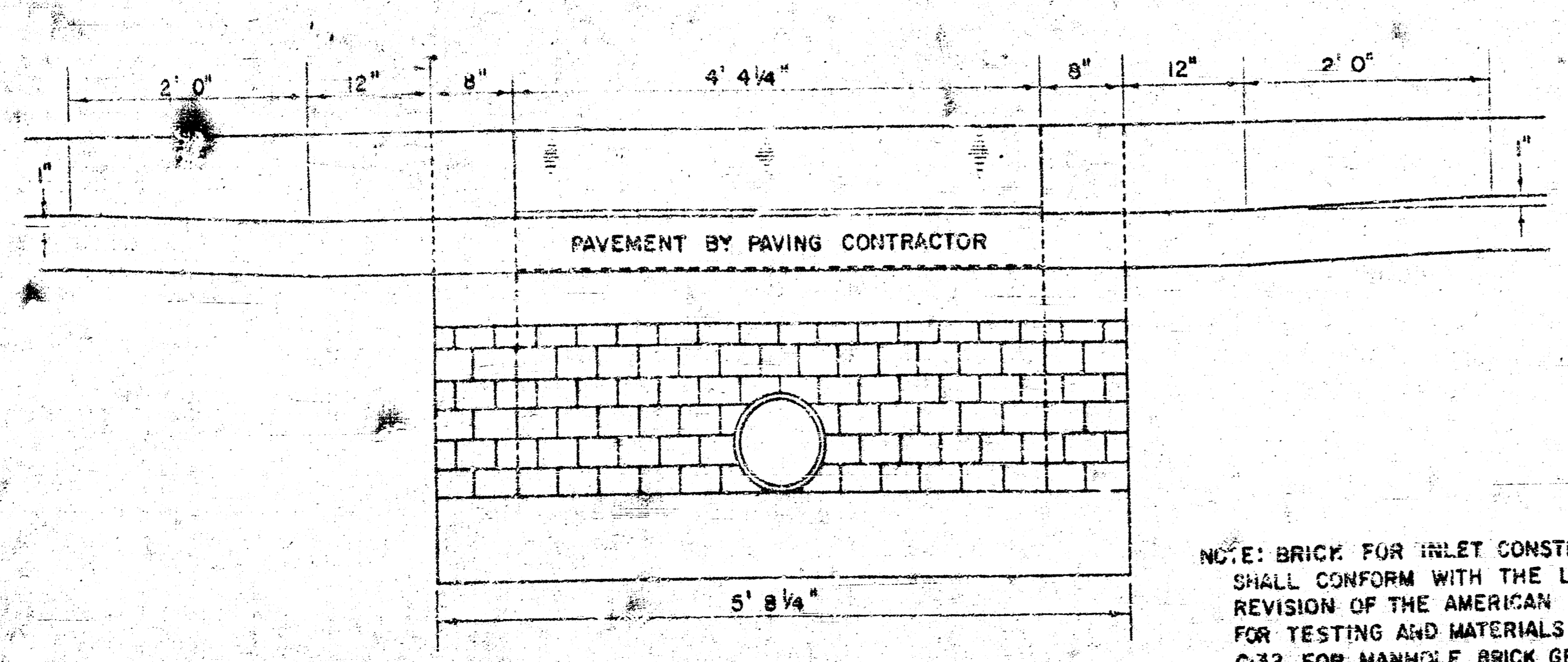
| W | PRE-CAST TOP SIZE | PIPE SIZE | CU. YD. CONC. |
|-------|--------------------------|-------------|---------------|
| 4' 2" | 36" x 5' 8 1/4" x 7 1/2" | 8" SMALLEST | 0.46* |
| 5' 0" | 44" x 5' 8 1/4" x 7 1/2" | 10" & 30" | 0.57* |
| 6' 0" | 54" x 5' 8 1/4" x 7 1/2" | 36" & 42" | 0.71* |
| 7' 0" | 64" x 5' 8 1/4" x 7 1/2" | 48" & 34" | 0.86* |
| 8' 0" | 74" x 5' 8 1/4" x 7 1/2" | 60" & 66" | 0.97* |



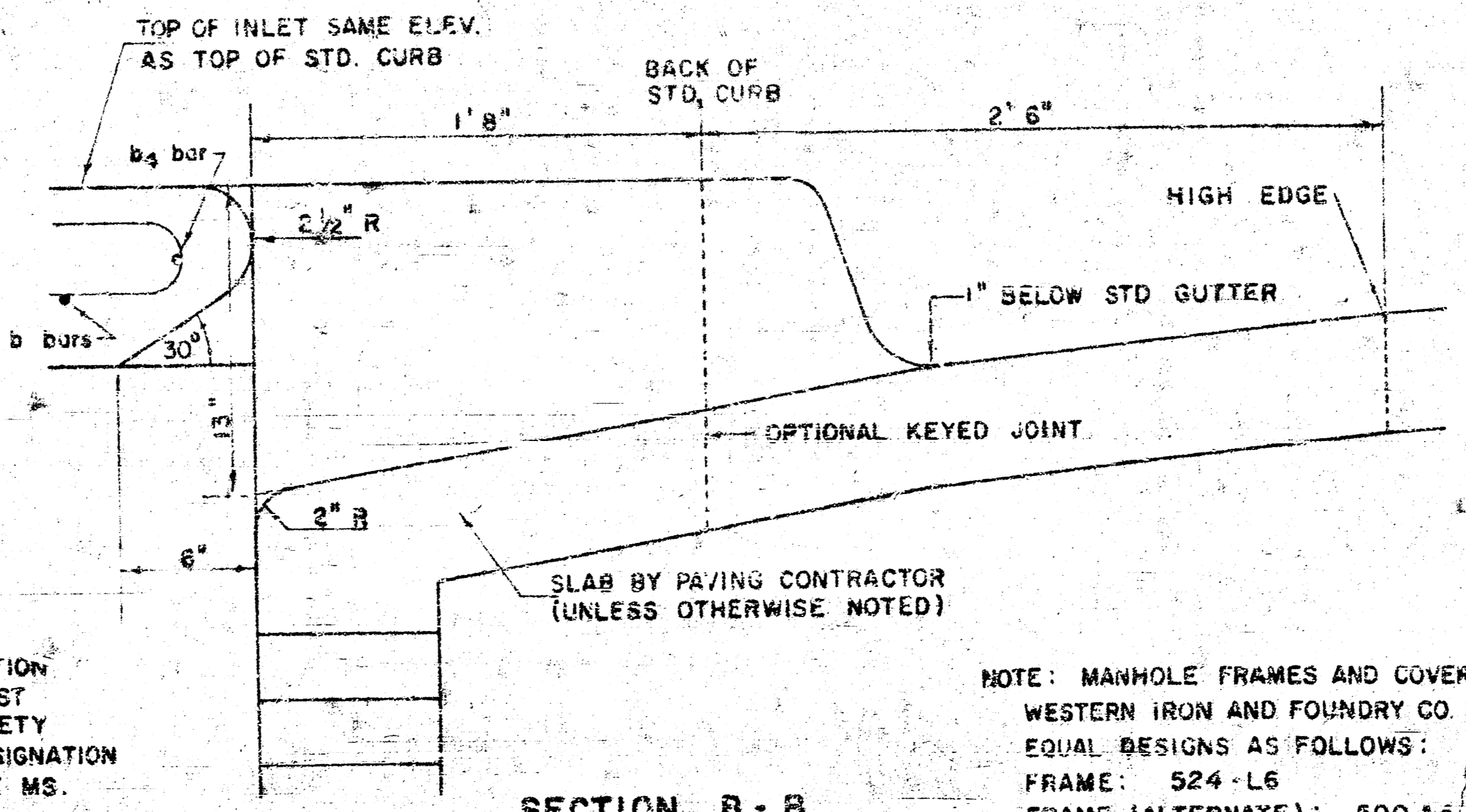
MANHOLE COVER (SCALE 1" = 6") WEIGHT = 170 LBS.



MANHOLE FRAME (ALTERNATE) (SCALE 1" = 6") WEIGHT = 180 LBS.



SECTION C-C (SCALE 1" = 1' 0")

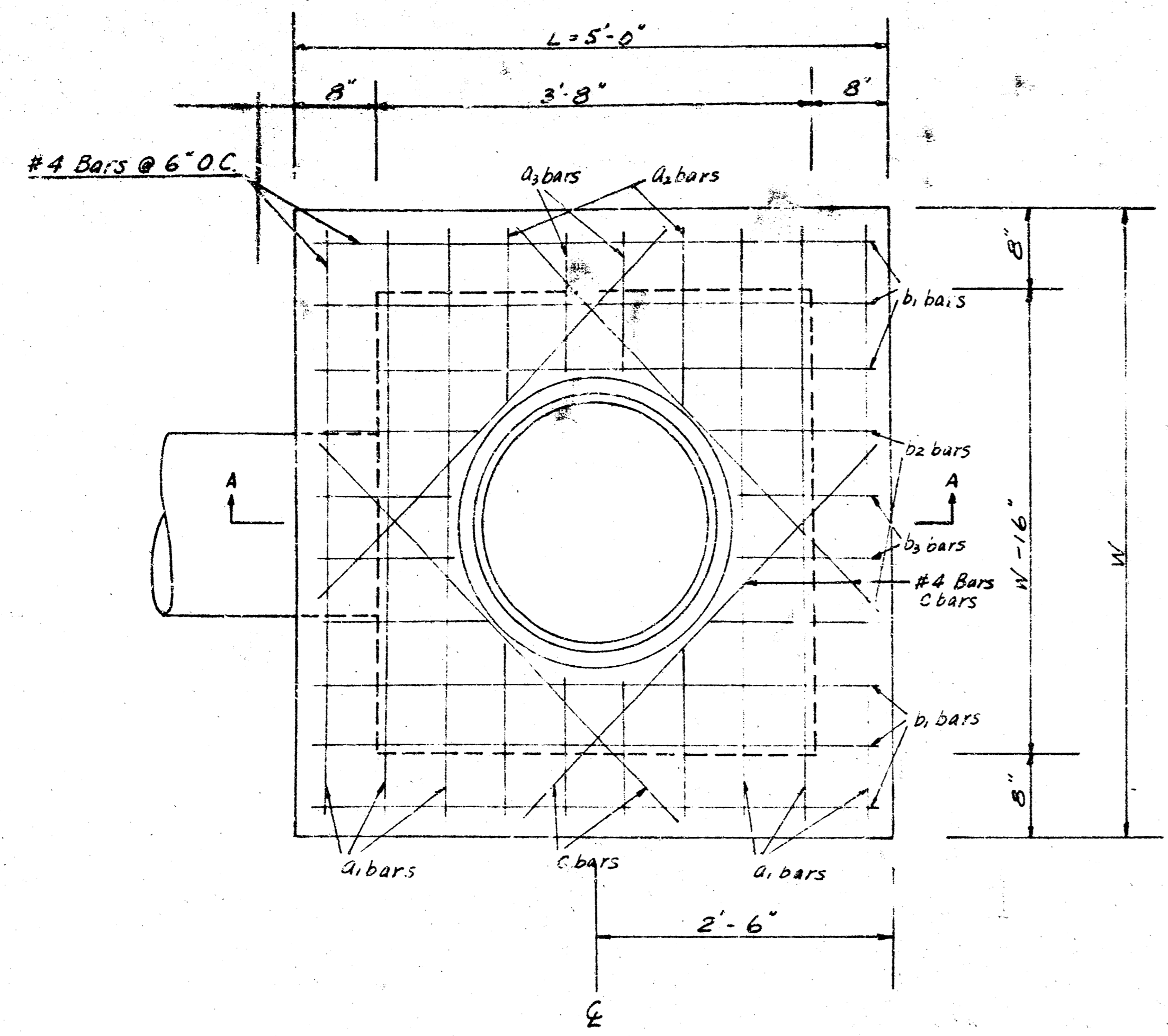


SECTION B-B (SCALE 1" = 6")

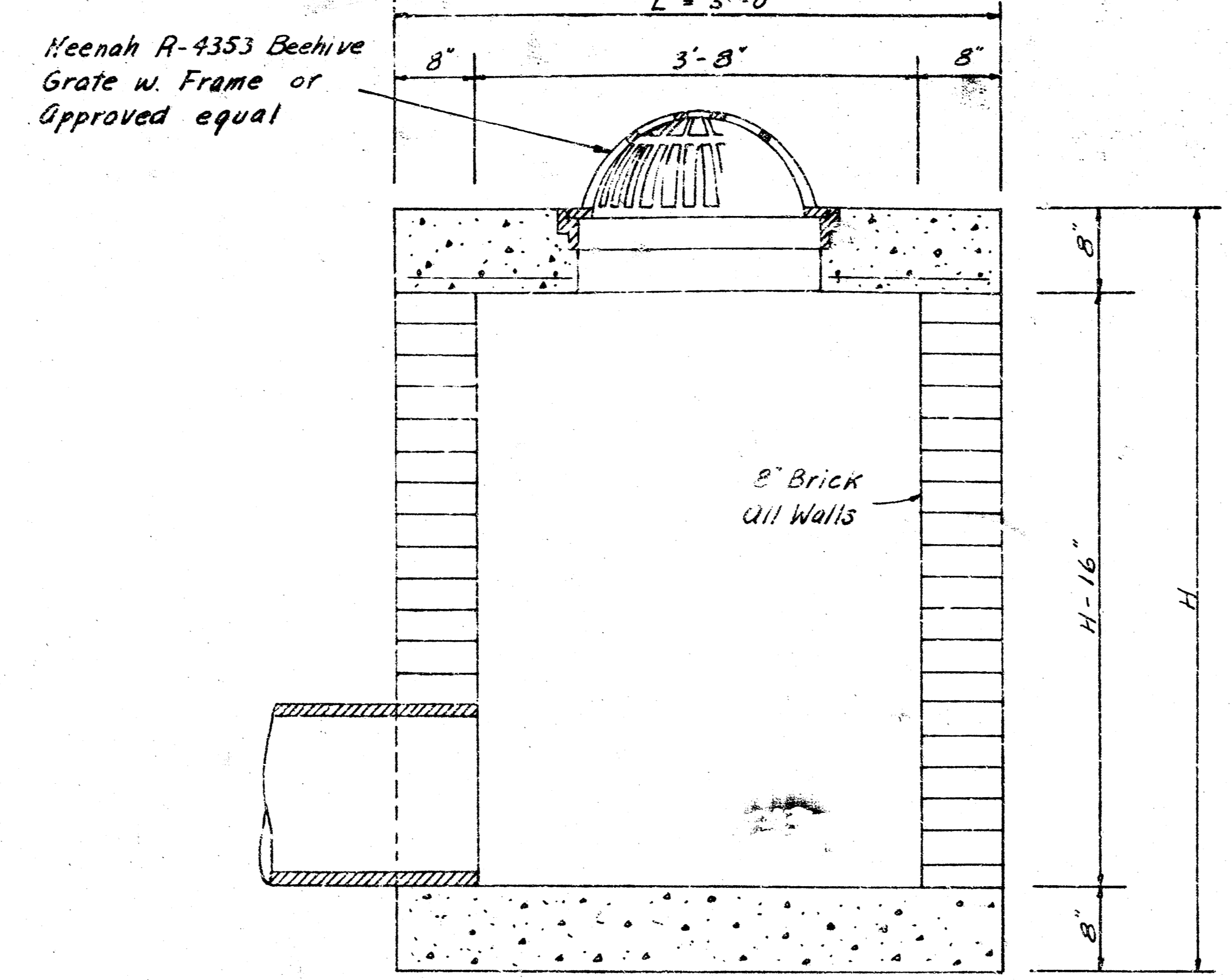
NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.

NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL DESIGNS AS FOLLOWS:
 FRAME: 524-L6
 FRAME (ALTERNATE): 500 A4
 COVER: 222 S4 "NOBBY"

DETAIL STANDARD TYPE IA CURB INLET
 CITY OF WICHITA, KANSAS
 R. W. LINN - CITY ENGINEER
 OCTOBER 1978



PLAN
(SCALE 1" = 1'0")

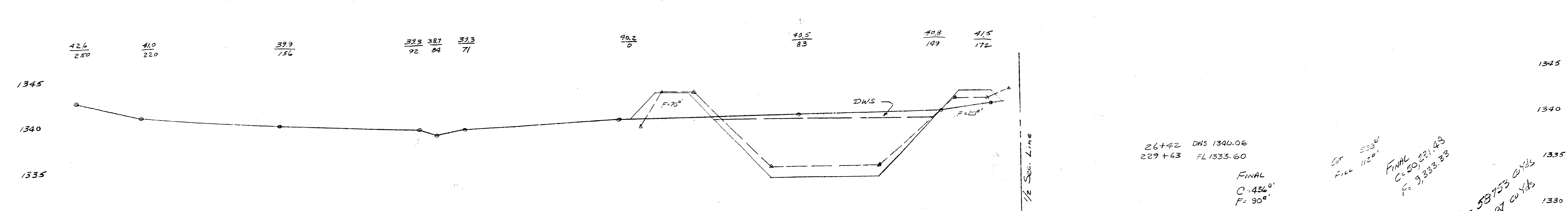
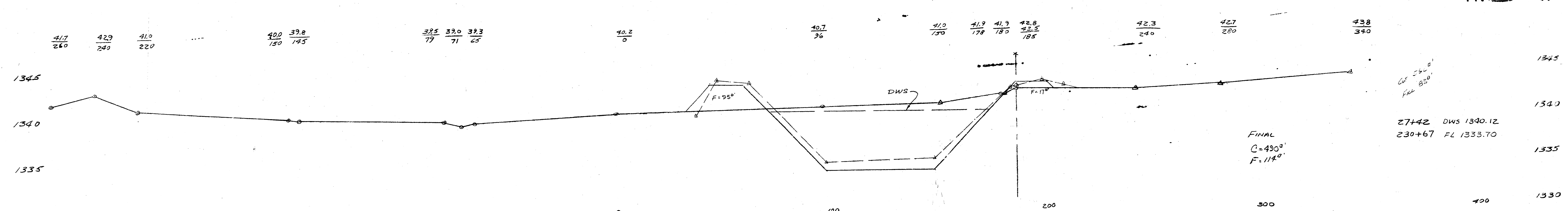
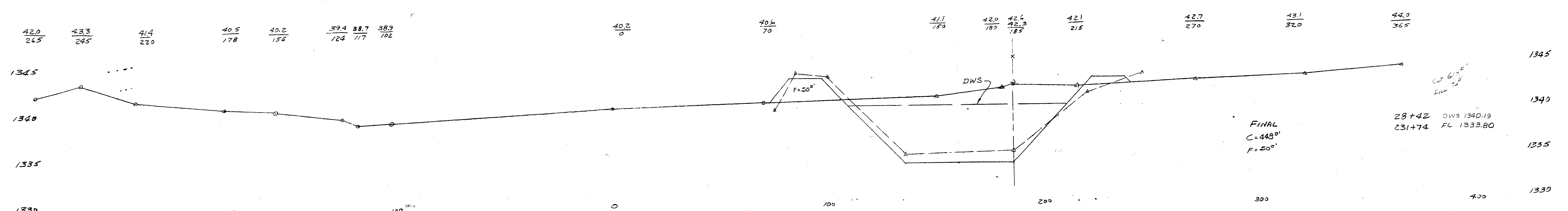
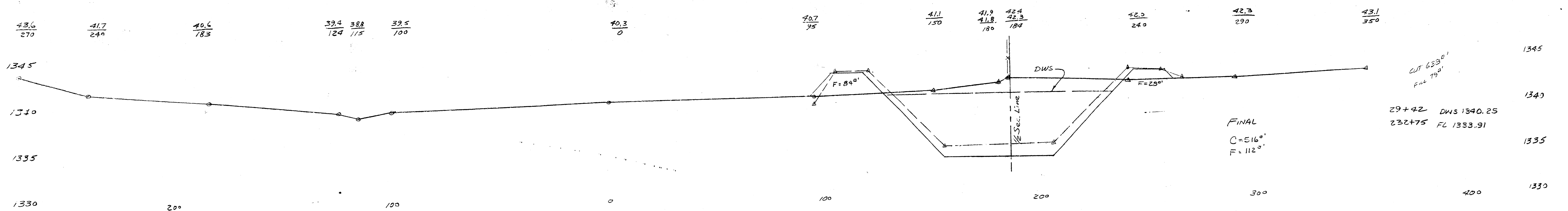


SECTION A-A
(SCALE 1" = 1'0")

STEEL SCHEDULE

| BAR | a ₁ | a ₂ | a ₃ | b ₁ | b ₂ | b ₃ | C | WT. | PIPE SIZE | Cu. Yd. Conc. |
|--------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-----|-----------|---------------|
| NUMBER | 6 | 4 | 4 | 6 | 4 | 4 | 4 | LBS | | |
| SIZE | #4 | #4 | #4 | #4 | #4 | #4 | #4 | | | |
| W=5'0" | 4'8" | 1'6" | 1'1" | 4'8" | 1'6" | 1'1" | 4'4" | 63 | 24" | 1.17 |
| W=6'0" | 5'8" | 2'0" | 1'7" | 4'8" | 1'6" | 1'1" | 4'10" | 77 | 36" | 1.41 |

DETAILS OF
SPECIAL INLET WITH BEEHIVE GRATE
 CITY OF WICHITA, KANSAS
 S. W. D. NO. 45
 PROJECT NO. 468 76 245 80986 000 000 001

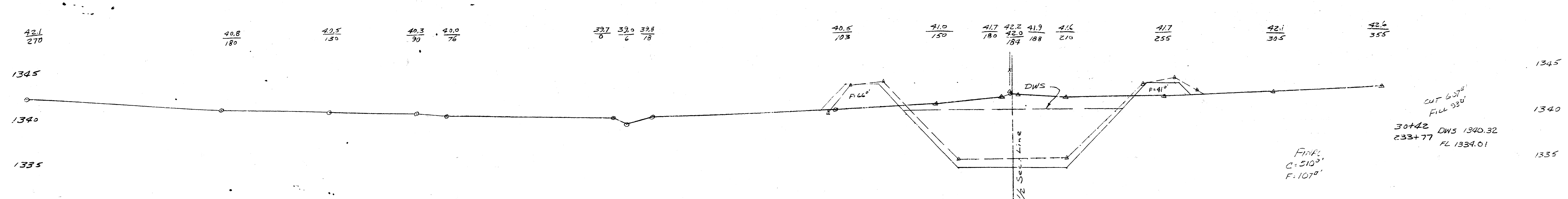
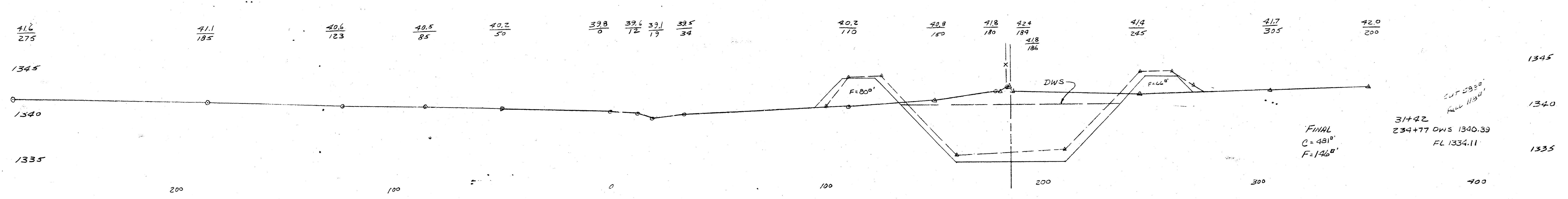
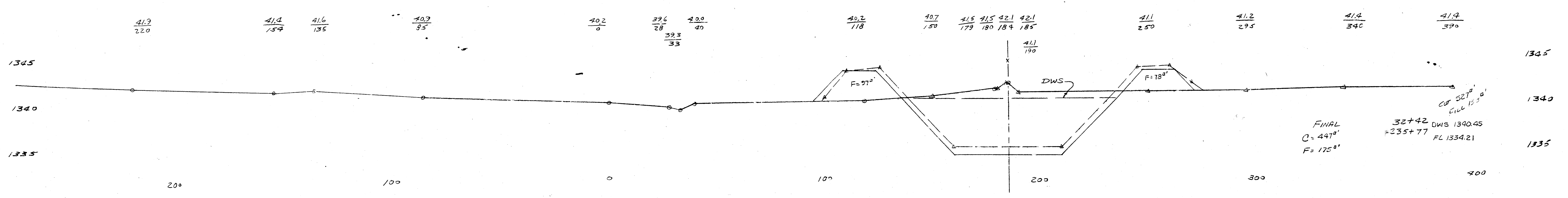
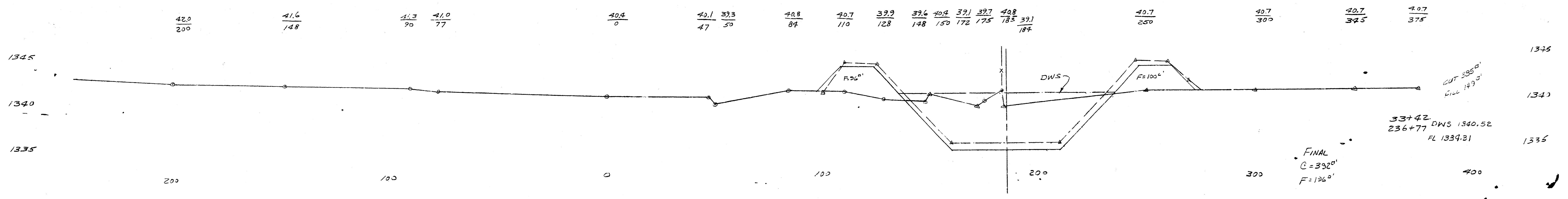


Cross Sections
 Extended Sept 1977

TOTAL CUT 5875.04
 FILL 6887.04
 Proposed Channel
 Westlink-Rolling Hills Cr.
 N 1/2 Sec. 8-273-1W
 May 1974
 Sheet 3 of 15

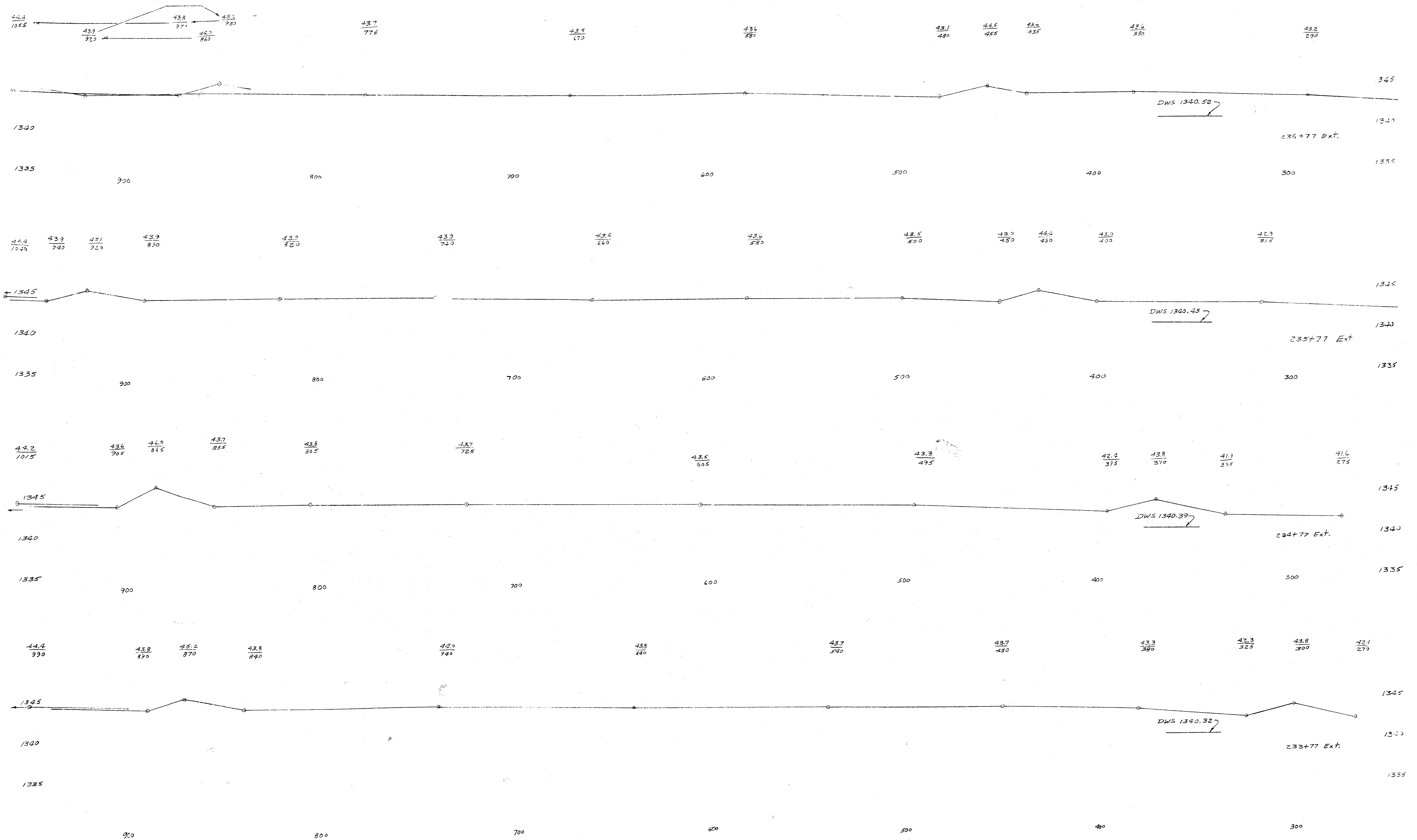


Extended Cross Sections
 Westlink-Rolling Hills Co.
 N 1/2 Sec. 8 T2S R1W
 Sept. 1977 Sheet 8A of 15

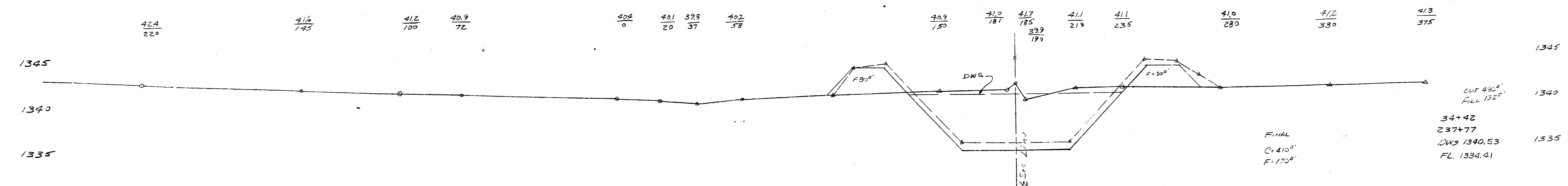
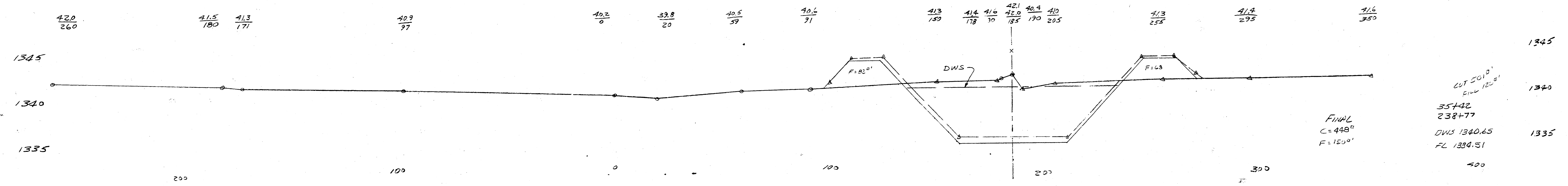
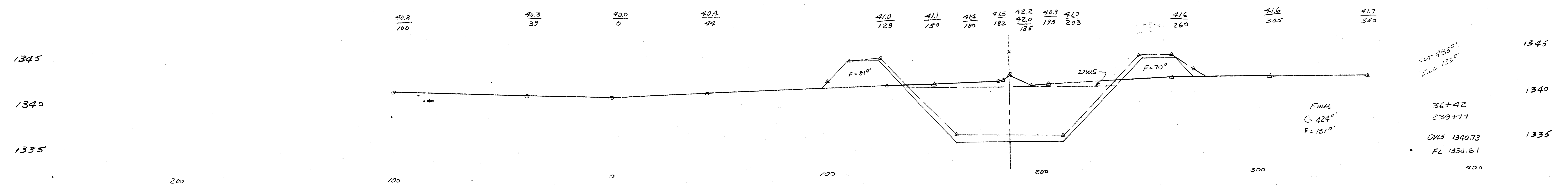
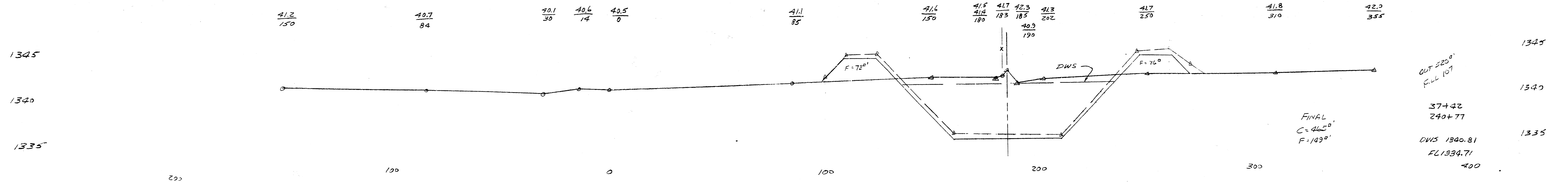


Cross Sections
Extended Sept 1977

Proposed Channel
Westlink-Rolling Hills Cr.
N 1/2 Sec 8-27S-1W
Sheet 9 of 15

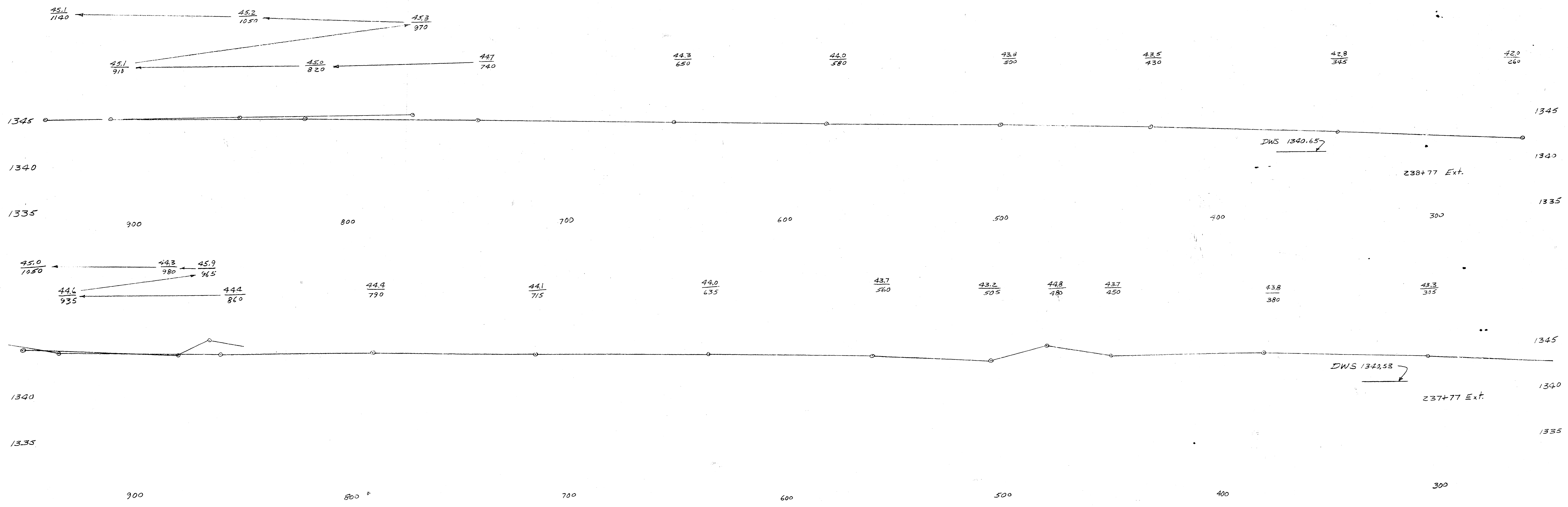


Extended Cross Sections
 Westlink Rolling Hills Cr
 N 1/2 Sec. 8 T27S R1W
 Sept. 1977 Sheet 9A of 15

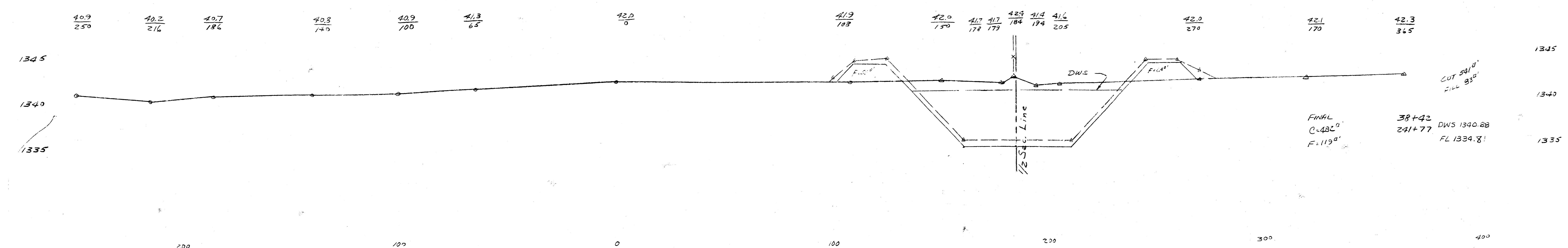
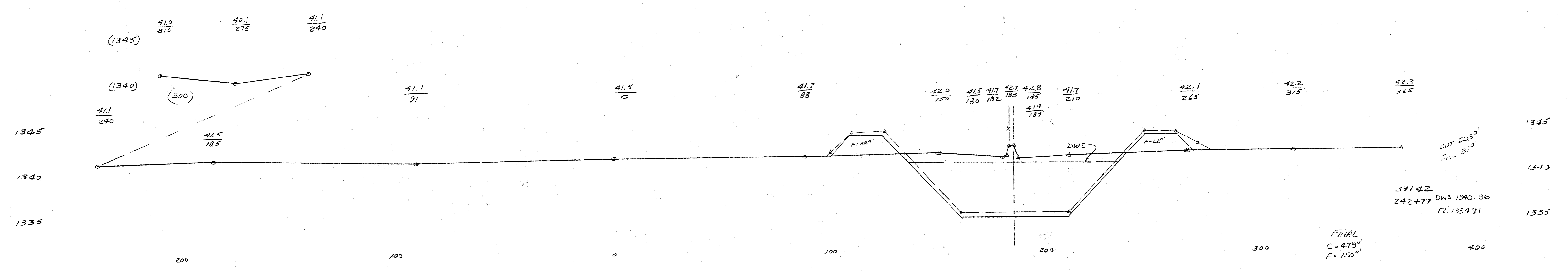
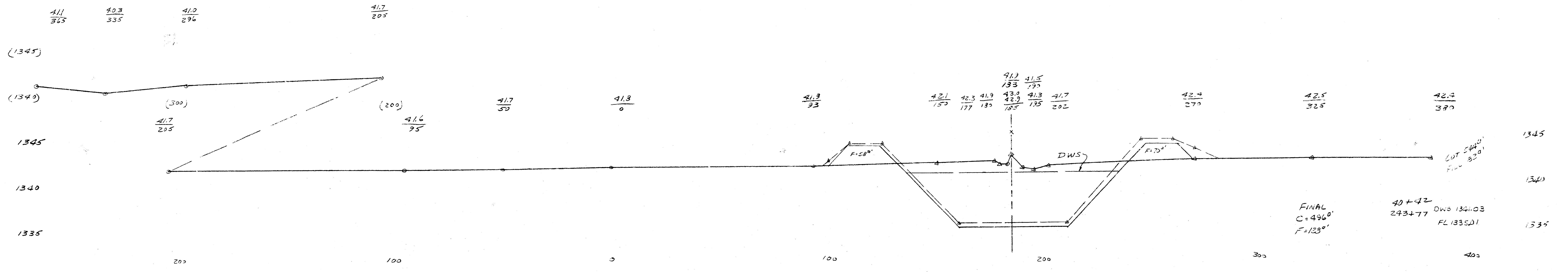


Cross Sections
Extended, Sept. 1977

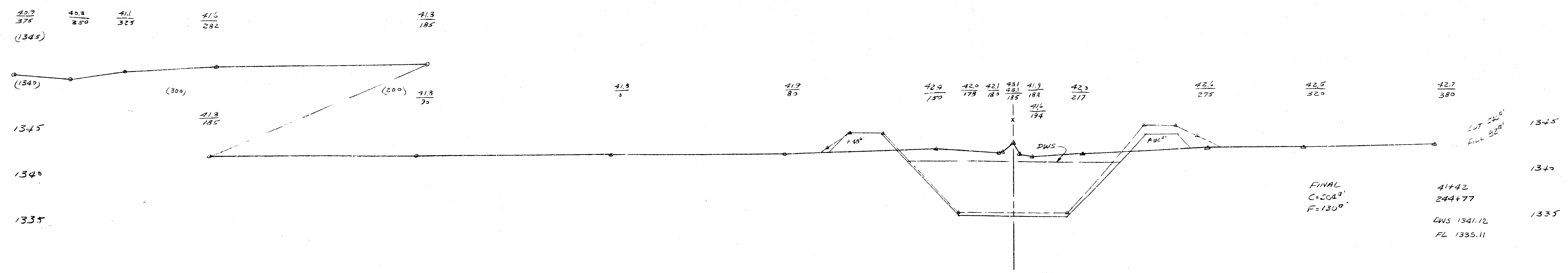
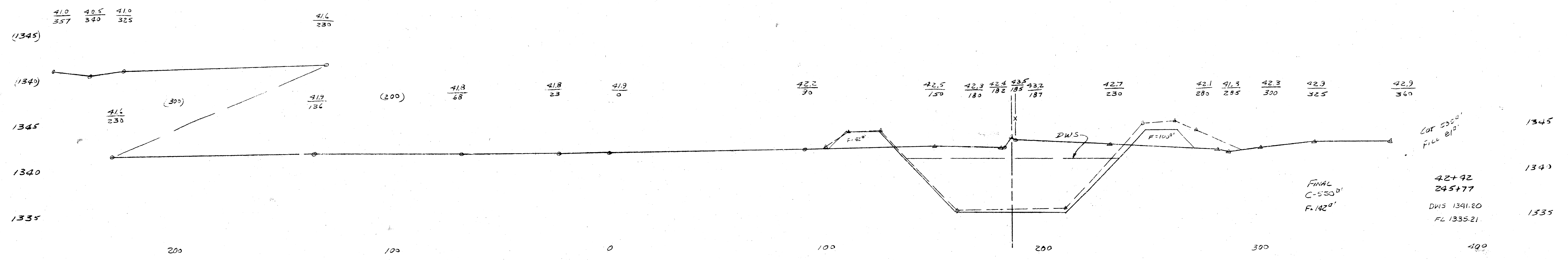
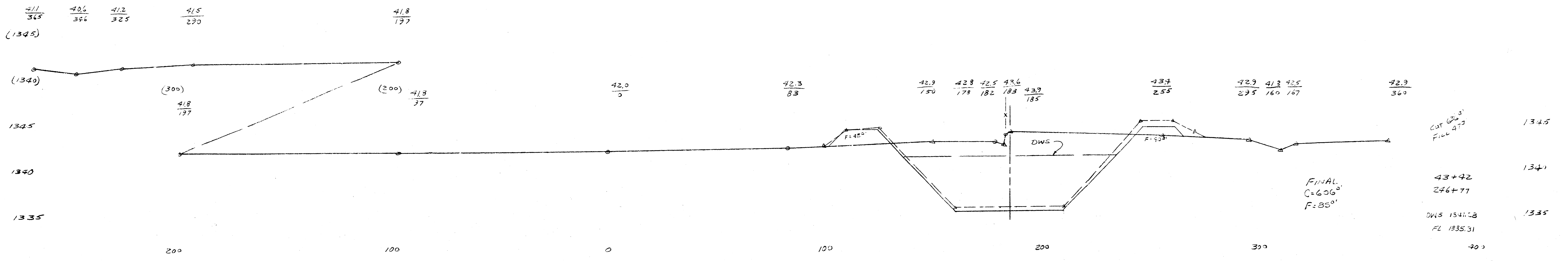
Proposed Channel
Westlink - Rolling Hills Cr.
N 1/2 Sec 8 - 27S - 1W
May 1974
Sheet 10 of 15



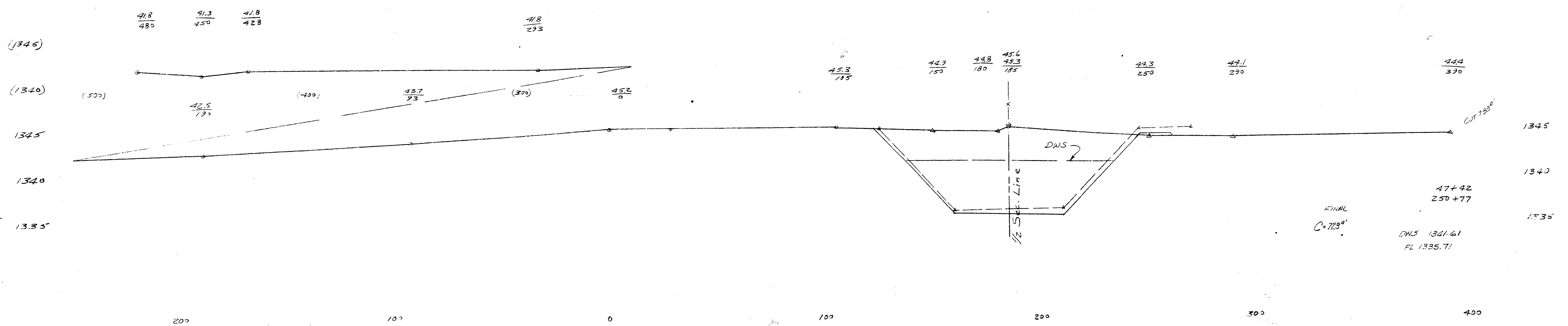
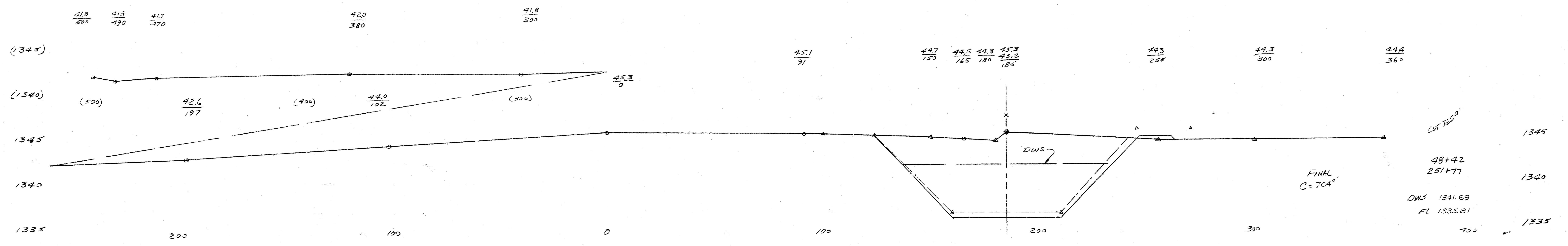
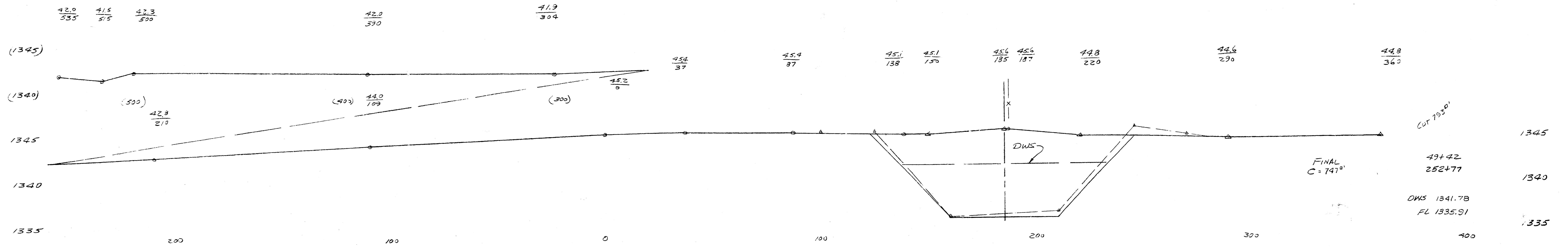
Extended Cross Sections
 Westlink-Rolling Hills Cr.
 N 1/2 Sec. 8 T27S R1W
 Sept. 1977 Sheet 10A of 15



Proposed Channel
 Westlink-Rolling Hills Creek
 N 1/2 Sec. 8-37S-1W
 May 1977
 Sheet 11 of 15

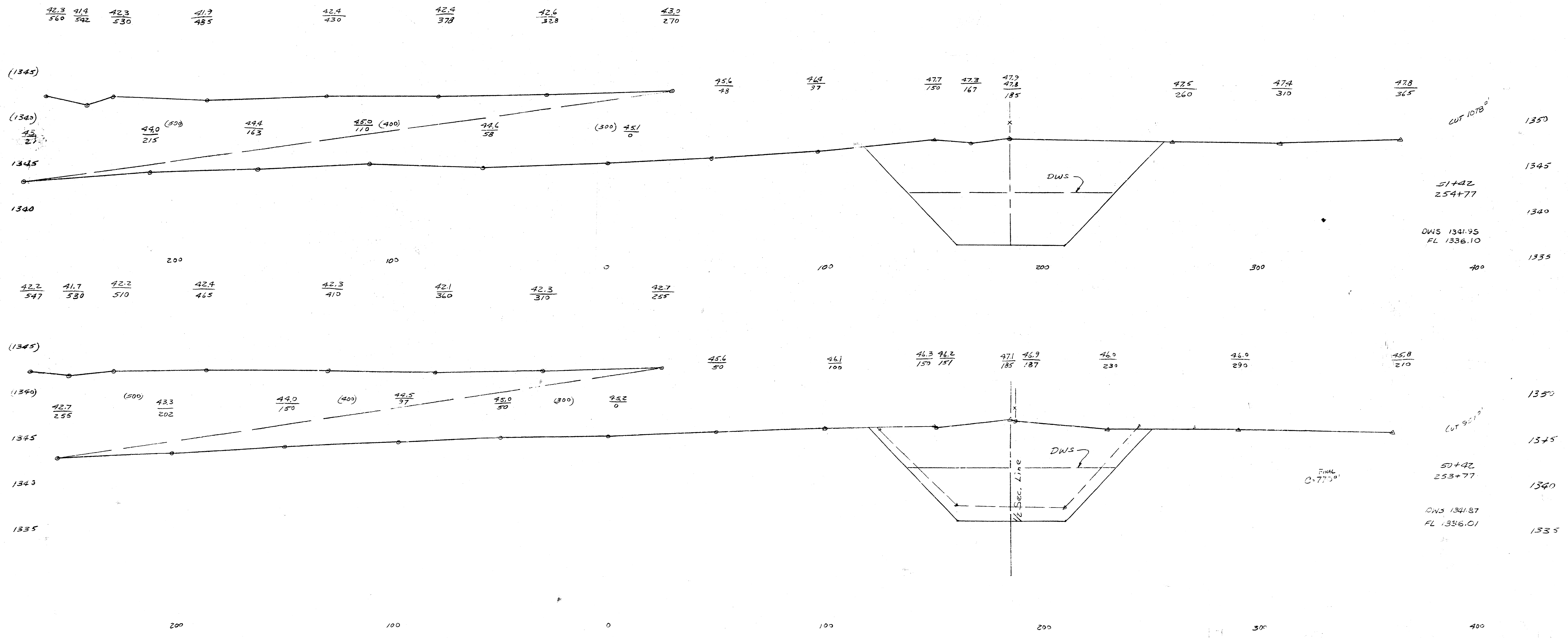


Proposed Channel
 Westlink-Rolling Hills Cr.
 N 1/2 Sec. 8 - 275 - 1W
 May, 1974
 Sheet 12 of 15



Proposed Channel
 Westlink-Rolling Hills Cr.
 N 1/4 Sec 9-27S-1W
 May 1944 Sheet 14 of 15

± 21st St
255+12.96



Proposed Channel
Westlink-Rolling Hills Cr.
N 1/2 Sec. 8 - 27S-1W
May 1974
Sheet 15 of 15