HOLIDAY INN-EAST
LIGHTNER ADDITION

BOX CULVERT

SANITARY SEWERS

STORM WATER SEWERS

RECONSTRUCTION OF STREET

SIDEWALKS

INDEX

1. SITE PLAN
2. & 3. - CULVERT- GENERAL PLAN & PROFILE
4. CULVERT- LIGHTNER ADD.
5. CULVERT & STREET- ORME & ARMOUR
6. CULVERT REINF.- ORME & ARMOUR
7. STORM SEWERS
8. SANITARY SEWERS
9. CROSS SECTIONS
10. HANDRAIL, SPEC. PAVE. REINF., BENT BARS

APPROVED AS NOTED
CITY ENGINEER OF WICHITA

K. O. TAYLO.
AUGUST, 1971

N

1" = 20'

EXISTING
MH FL 143.34
DEPTH 4.85'

EX 4" LINE FROM SWIMMING POOL

EX DRIVE

RELOCATION & SAN. SEWER

CONSTRUCT PL SAN. EASEMENT

ARMOUR DRIVE

NEW DRIVE

EX TREES

NEW 4" S/W

EX 4" FL 145.14

PROPERTY LINE

ADD 4' C.I.P.

525 LIN FT OF 3'-7"X7' BAYS OF R.C.B.C.

EX 18" FL 142.23

35.87

37.16'

CONSTRUCT 18" STORM SEWER

CONSTRUCT 4' S/W

ADJUST TO FINISH GRADE

20' EASEMENT MISC BOOK 731, PG 520

EXISTING 8" SAN. SEWER

RELOCATION 10" SAN. SEWER

EX ASPHALT PAVING

EXISTING MH FL 141.41

EXISTING 8" SAN. SEWER

EXISTING MH FL 142.25
TOP - 152.1

EXISTING MH FL 141.51

EX RETAINING WALL

REMOVE EX. PIPE & INLETS

CONSTRUCT INLET
(SPENCER CLASS)

EX HOUSE REMOVED

EX HOUSE REMOVED

EX HOUSE REMOVED

EX HOUSE REMOVED

EXISTING 5'-7'X7' R.C.B.C.

EXISTING 10" SAN. SEWER

EXISTING 8" SAN. SEWER

EXISTING 8" WATER LINE

VACATED STREET 211.42'

54 EXISTING UNITS

219.8

2.96'

266.87'

BLDG ON PL

EX 18" STORM SEWER

FL 147.85
FL 147.85

CALHOUN DRIVE

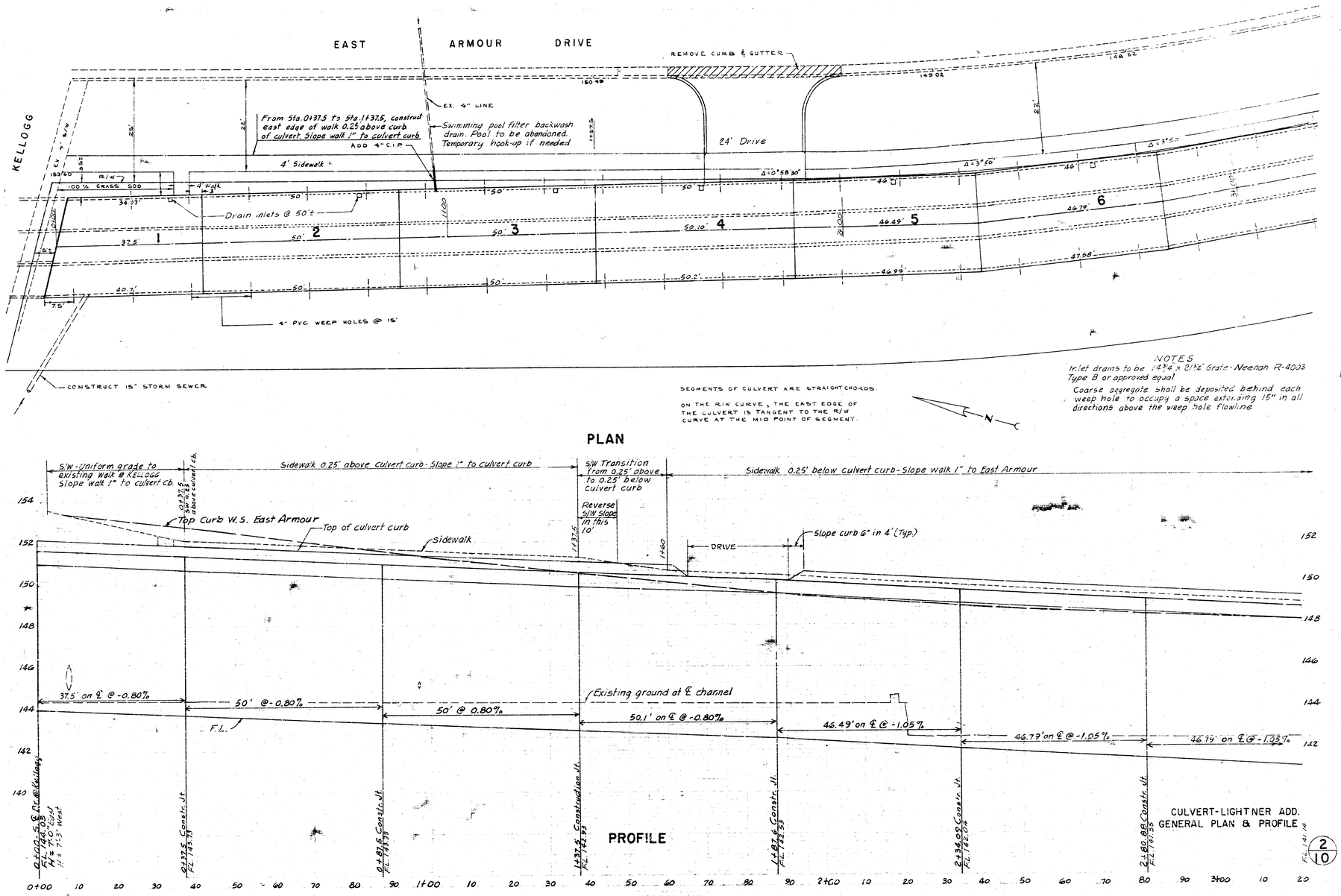
REVISED JULY 24, 1972 TO SHOWN ACCESS CONTROL ALONG NORTH LINE OF LOT 2, BLK A, LIGHTNER ADDITION.

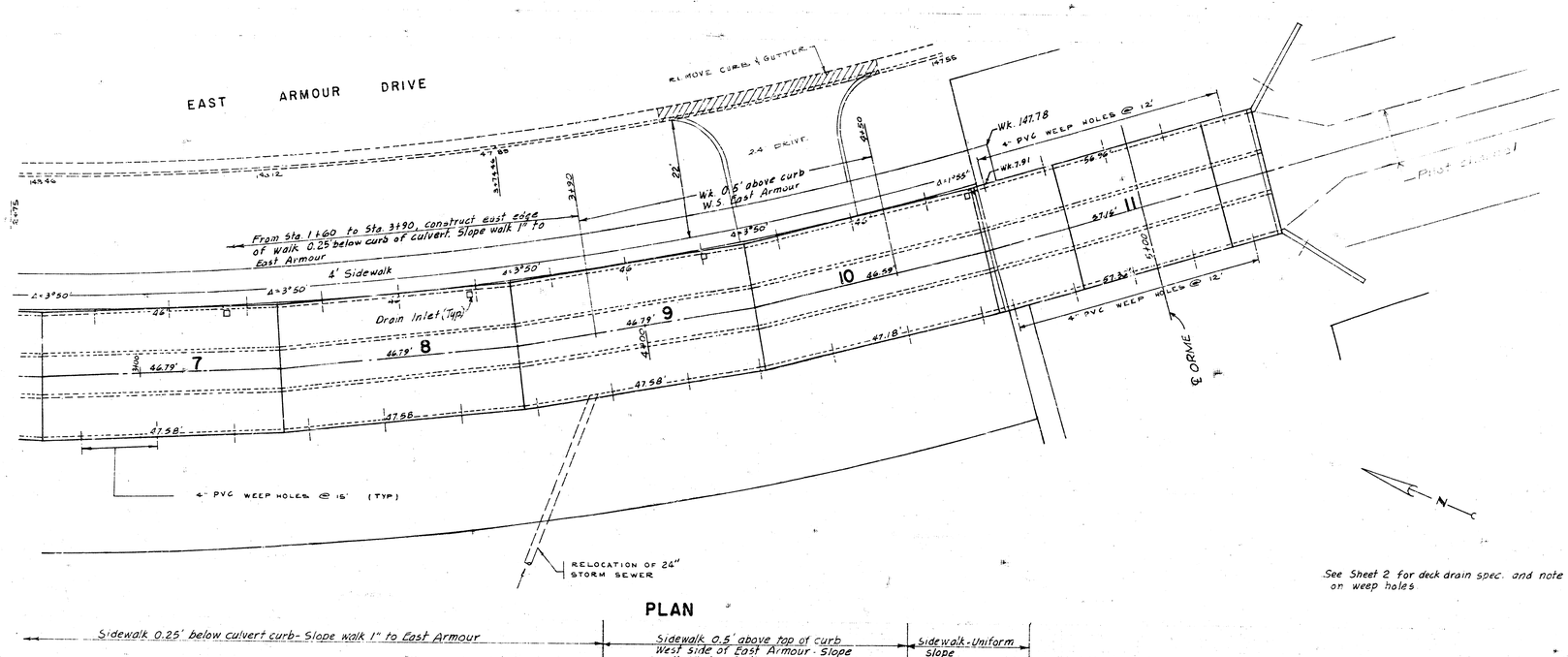
REVISED JUNE 27 1972 TO SHOW REMOVED EXISTING HOUSES

REVISED NOV. 30, 1971 TO SHOW SEWER RELOCATION & DRAINAGE EASEMENT VACATION

SITE PLAN - LIGHTNER ADDITION

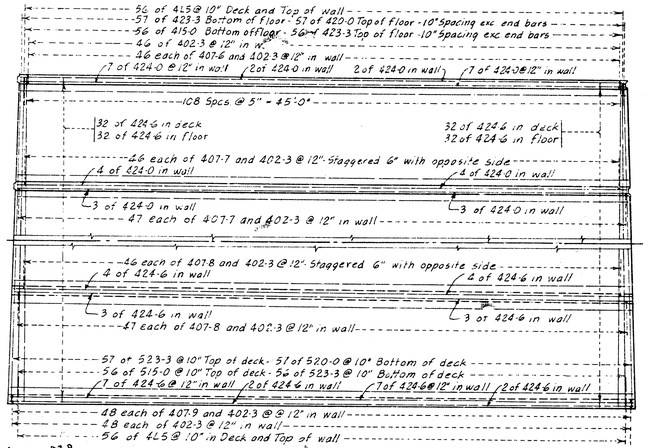
1/10


EAST ARMOUR DRIVE
KELLOGG
REMOVE CURB & GUTTER
EX. 4" LINE
From Sta. 0+37.5 to Sta. 1+37.5, construct east edge of walk 0.25 above curb of culvert. Slope walk 1" to culvert curb
Swimming pool filter backwash drain. Pool to be abandoned. Temporary hook-up if needed
ADD 4" C.I.P.
24' Drive
4' Sidewalk
100% GRASS SOD
Drain inlets @ 50'±
4" PVC WEEP HOLES @ 15'
CONSTRUCT 15" STORM SEWER
SEGMENTS OF CULVERT ARE STRAIGHT CHORDS.
ON THE R/W CURVE, THE EAST EDGE OF THE CULVERT IS TANGENT TO THE R/W CURVE AT THE MID POINT OF SEGMENT.
NOTES
Inlet drains to be 14 3/4" x 21 1/2" Grate - Neenah R-4003 Type B or approved equal
Coarse aggregate shall be deposited behind each weep hole to occupy a space extending 15" in all directions above the weep hole flowline
PLAN
S/W - Uniform grade to existing walk @ KELLOGG Slope walk 1" to culvert cb.
Sidewalk 0.25' above culvert curb - Slope 1" to culvert curb
S/W Transition from 0.25' above to 0.25' below culvert curb
Sidewalk 0.25' below culvert curb - Slope walk 1" to East Armour
Reverse S/W Slope in this 10'
Top Curb W.S. East Armour
Top of culvert curb
Sidewalk
DRIVE
Slope curb 6" in 4' (Typ.)
Existing ground at ℄ channel
37.5' on ℄ @ -0.80%
50' @ -0.80%
50' @ 0.80%
50.1' on ℄ @ -0.80%
46.49' on ℄ @ -1.05%
46.79' on ℄ @ -1.05%
46.79' on ℄ @ -1.05%
F.L.
0+37.5 Const. Jt.
1+37.5 Construction Jt.
2+87.6 Constr. Jt.
2+134.08 Constr. Jt.
2+180.88 Constr. Jt.
PROFILE
CULVERT-LIGHTNER ADD.
GENERAL PLAN & PROFILE
2/10

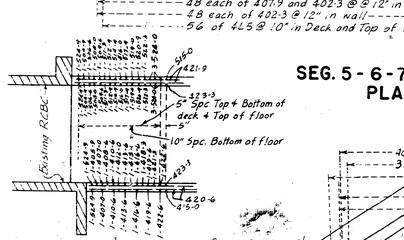


CULVERT- LIGHTNER ADDITION
GENERAL PLAN & PROFILE

3/10



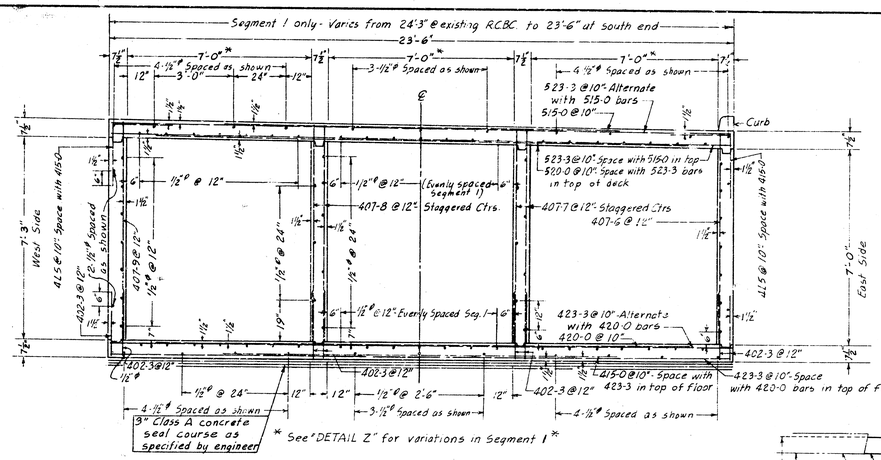
SEG. 5 - 6 - 7 - 8 - 9 - 10 PLAN



GENERAL NOTES

Remove portion of existing wingwalls as shown. 3-4" extension against existing culvert. A minimum of 1" length of the existing wingwall steel shall be left intact and shall be cleaned and straightened to bond into the new concrete.

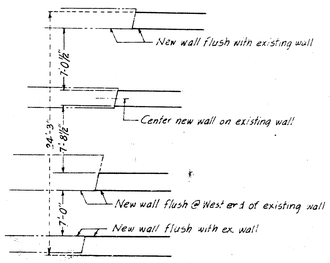
All existing concrete surfaces adjacent to new concrete shall be thoroughly cleaned and brushed, and shall be watersoaked for 24 hours prior to placing new concrete.



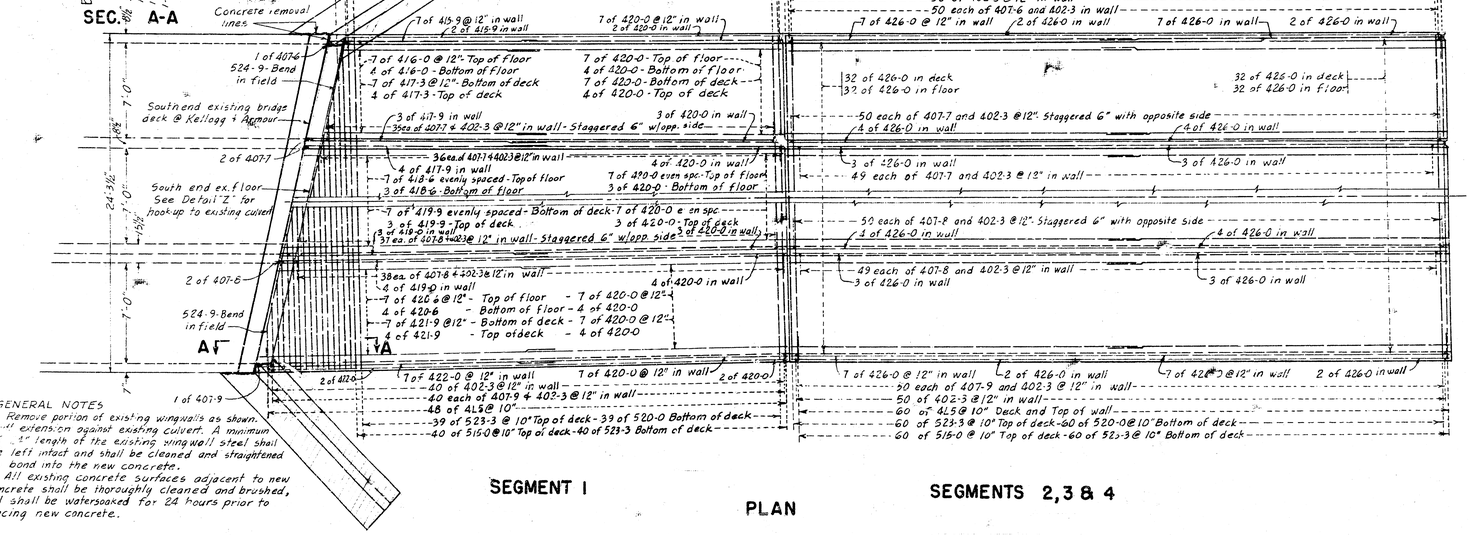
* See "DETAIL Z" for variations in Segment 1 *

TYPICAL SECTION

Note: Bevel all exposed edges with ¾" triangular moulding unless otherwise noted.
See Sheets 2 and 3 for location of inlets in deck and for location of weep holes.
See Sheet 7 for location of storm water pipe entrances.



DETAIL Z



SEGMENT 1 PLAN — SEGMENTS 2, 3 & 4 PLAN

R. C. B. C. - LIGHTNER ADDITION

4/10

SCALE	REVISIONS	NO.	DATE
DATE			
DRN. CHD.			
APVD.			
TITLE		NO.	

EAST ARMOUR

Remove C+G between curb returns
Match P.C. Conc. pave. to existing gutter line

Uniform grade

F.L. V.G. 2" Inv. Cr

8" Intergal curb

8" Intergal Curb

CHECK LATEST CITY OF WICHITA CURB

Constr. jt

3/4" Exp Jt

No V.C. P.I. 148.16

No V.C. P.I. 147.86

P.I. 147.34

30'-0"

24.0'

Constr. joint

R.C.B.C.

ORME

WARP CURB FACE TO MATCH BATTER ON R.C.B.C. BOTH SIDES

25.15'

24.00'

3/4" Exp. jt.

Warp gutter to match R.C.B.C. each side

0+60 P.I.

Std combined C+G with key joint

6" P.C. Concrete base- 2" A.C. surface course

3/4" Exp jt (C&G only)

15' R.

25.85'

0+45

Remove 70 Lin. Ft. min. of C+G

0+30

Remove 27' and C+G.

Min. of rave

Saw existing pavement to from gutter line

15'

Remove existing asphalt surface course to obtain min. of 6" of new A.C. Resurface intersection with A.C.

Saw asphalt surface course

WEST ARMOUR

4' Walk

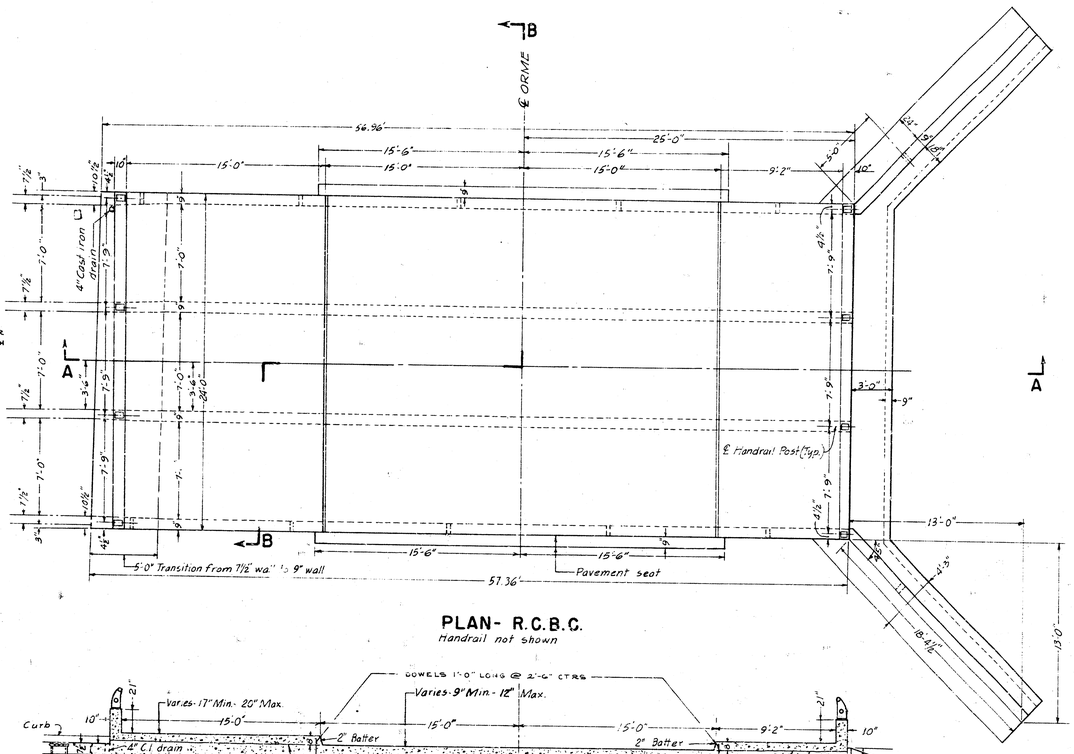
0+00

Saw asphalt surface course

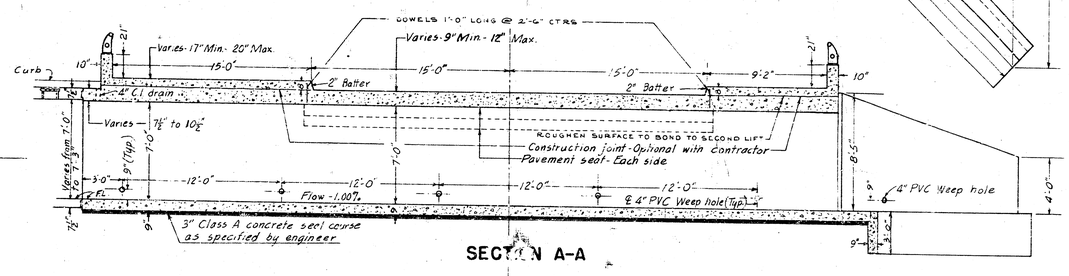
3/4" Exp jt

Construct inlet

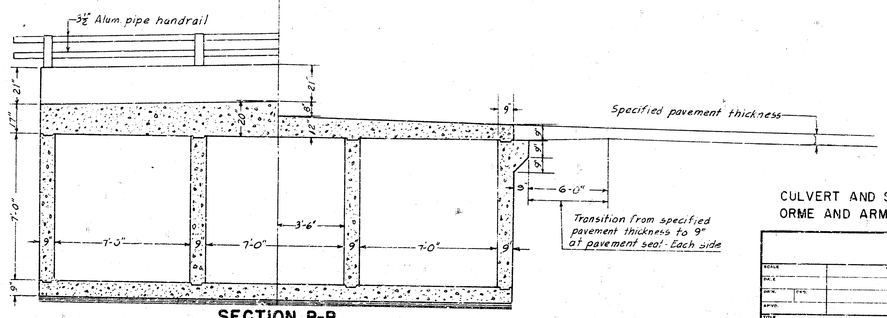
PLAN
INTERSECTION- ORME & ARMOUR
1" = 10'



PLAN- R.C.B.C.
Handrail not shown



SECTION A-A

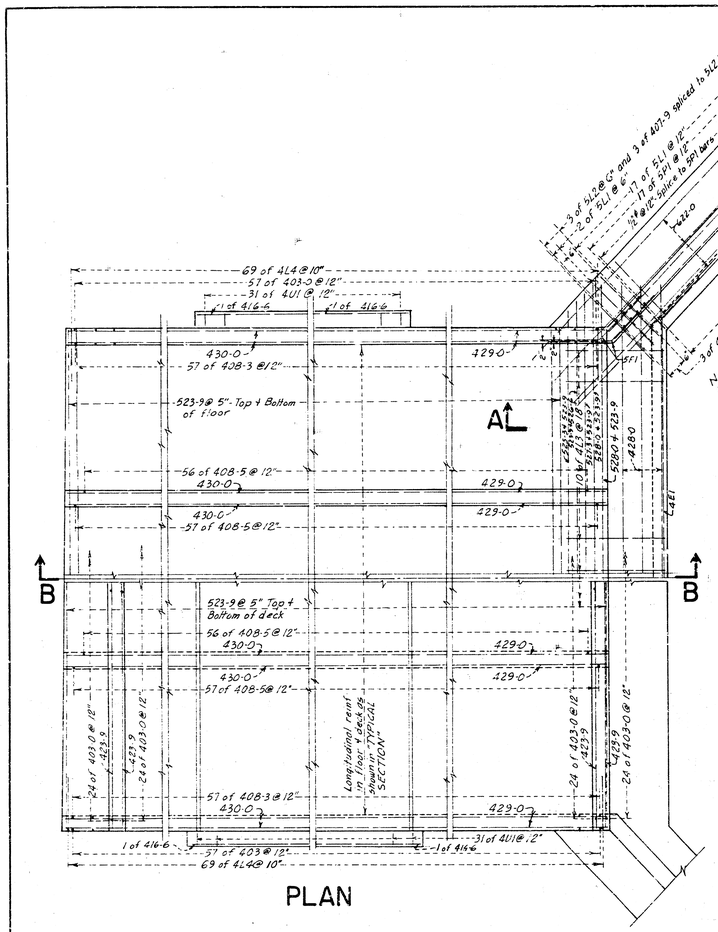


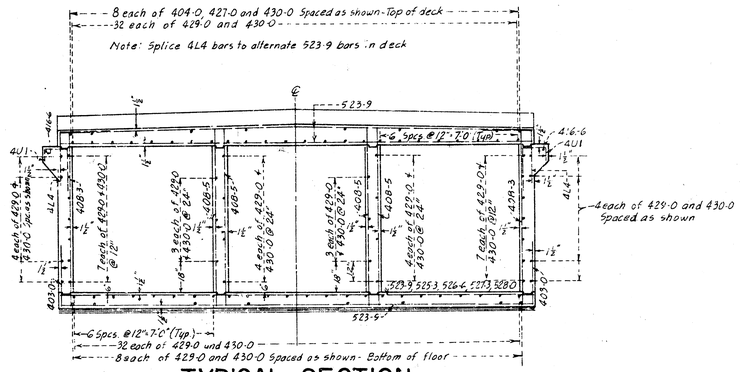
SECTION B-B

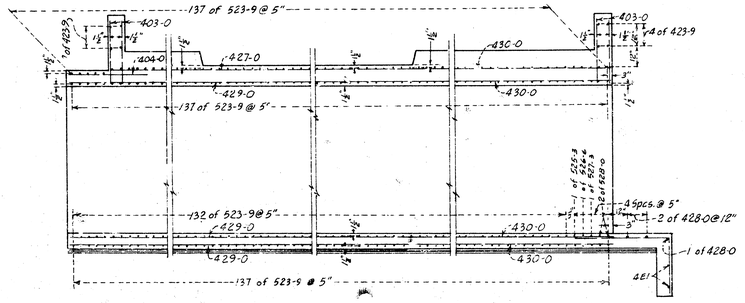
CULVERT AND STREET
ORME AND ARMOUR

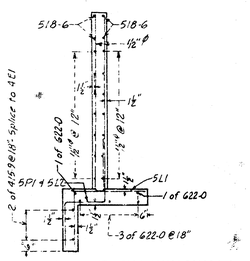
5/10

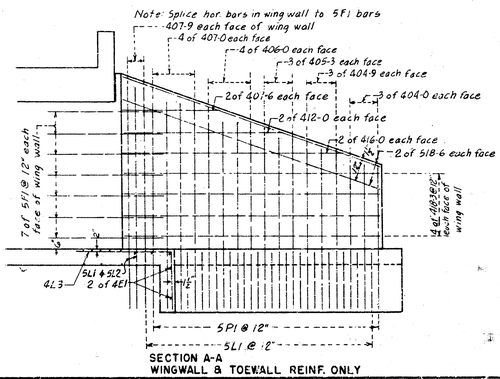
SCALE	REVISIONS	BY	DATE
DES.			
DR'N. CHK'D.			
APP'D.			
TITLE	NO.		







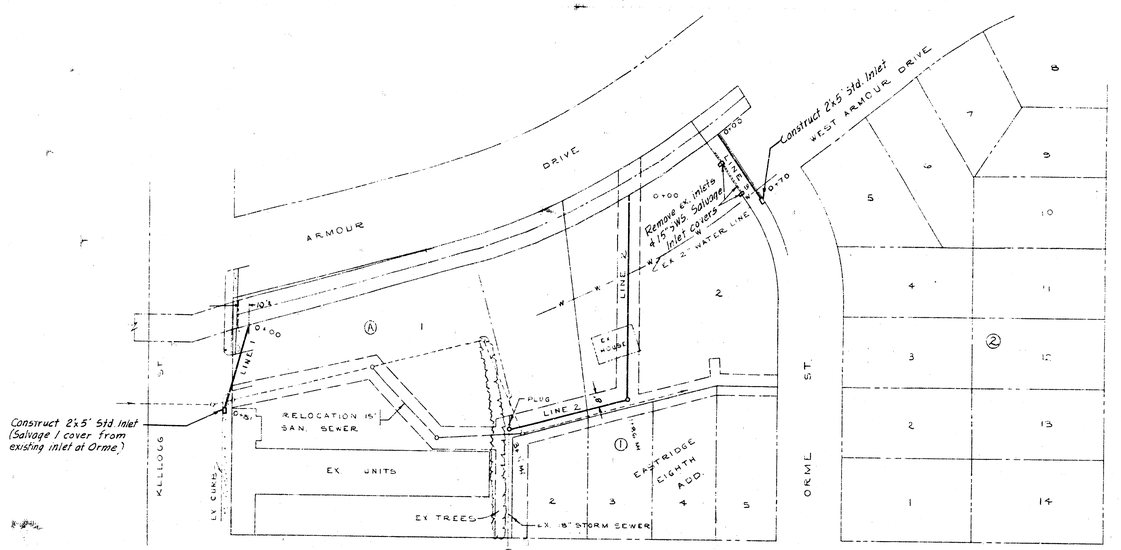




6/10

R.C.B.C.– ORME & ARMOUR REINFORCEMENT

SCALE	REVISIONS	BY	DATE
DATE			
DRWN. CKD			
APVD.			
TITLE		NO.	

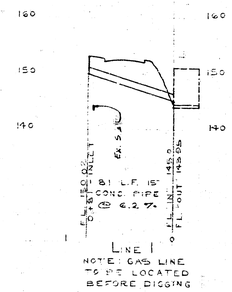


NOTE

ALL SEWER LINES TO BE BACKFILLED WITH SAND AND FLUSHED.

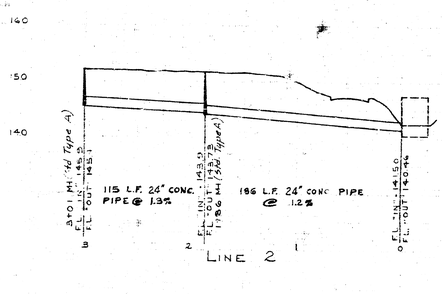
REMOVE ALL EXISTING SEWERS UNDER PROPOSED BUILDINGS. PLUG OTHERS TO CITY OF WICHITA SPECIFICATIONS.

STORM SEWER RELOCATION
LIGHTNER ADDITION TO
WICHITA, KANSAS

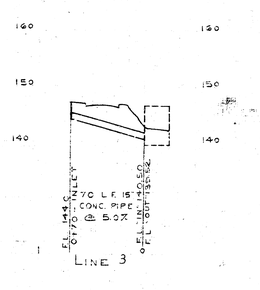


LINE 1

NOTE: GAS LINE TO BE LOCATED BEFORE DIGGING

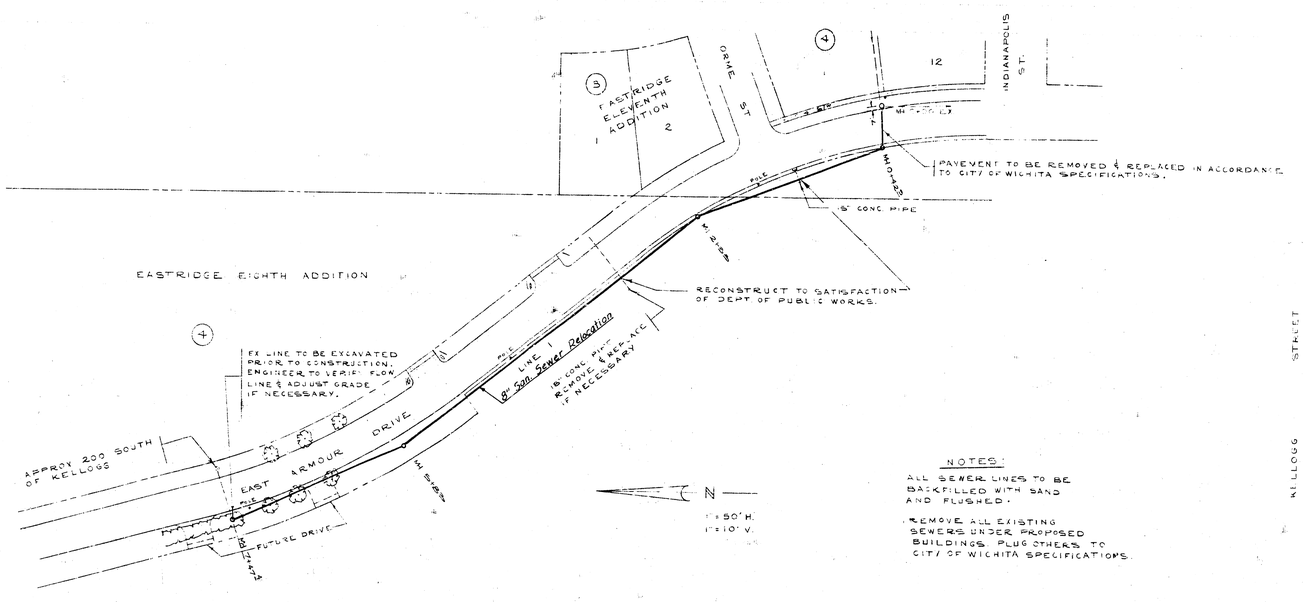


LINE 2



LINE 3

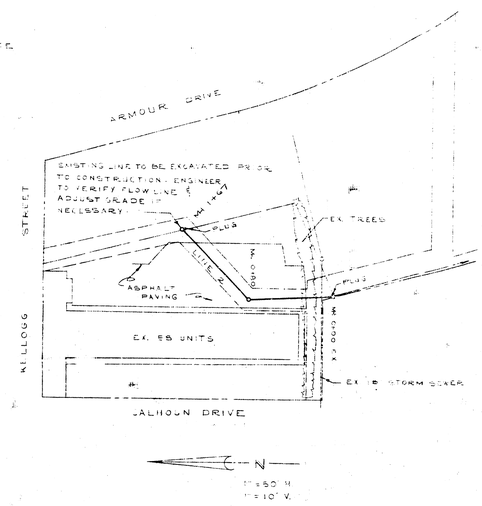
7/10



NOTES:

ALL SEWER LINES TO BE BACKFILLED WITH SAND AND FLUSHED.

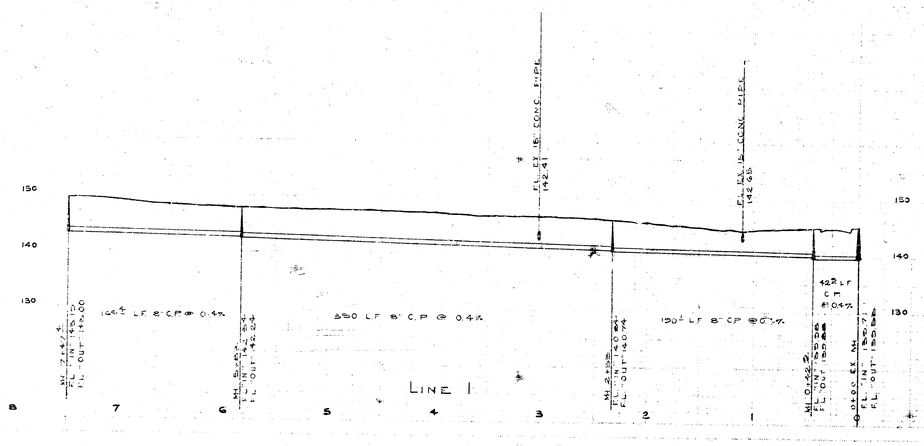
REMOVE ALL EXISTING SEWERS UNDER PROPOSED BUILDINGS. PLUG OTHERS TO CITY OF WICHITA SPECIFICATIONS.

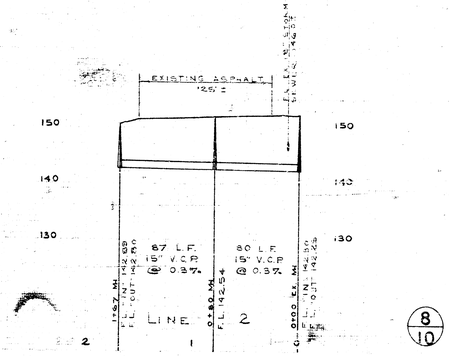


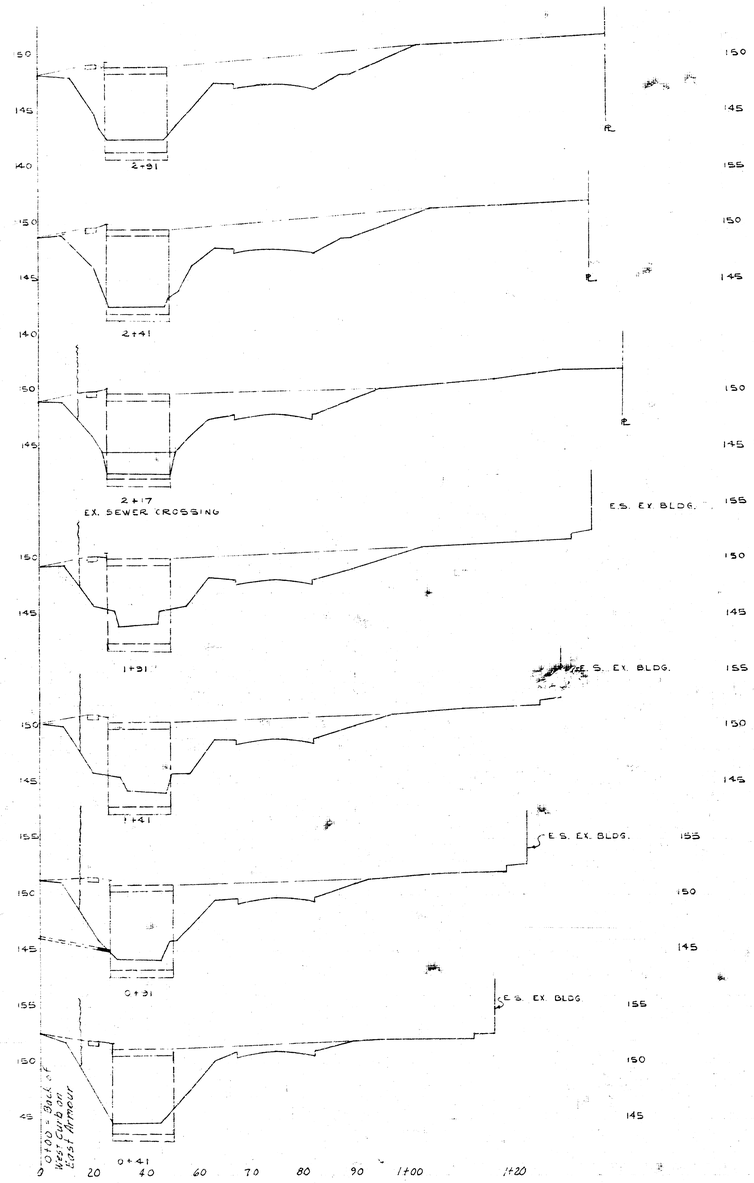
SANITARY SEWER RELOCATION LIGHTNER ADDITION TO WICHITA, KANSAS

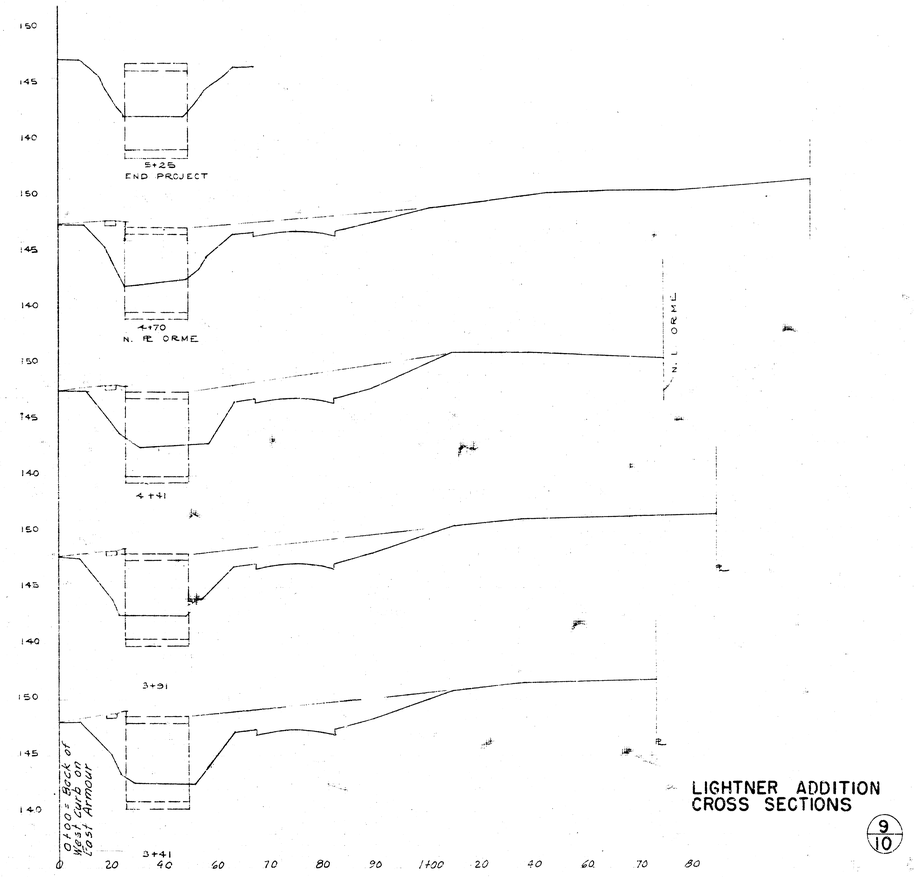
AS BUILT

K. D. TAYLOR, P.E.
JUNE, 1971



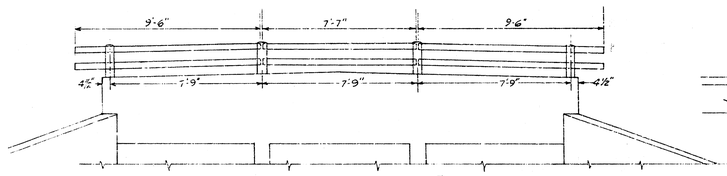




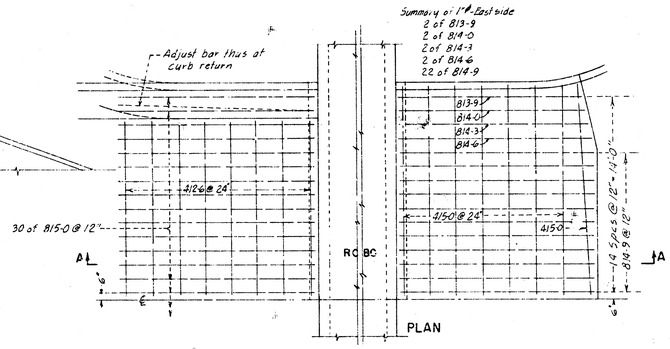


LIGHTNER ADDITION
CROSS SECTIONS

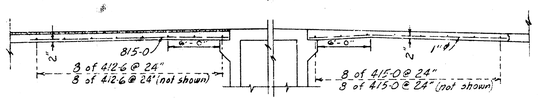
9/10



ELEVATION

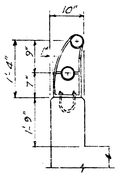


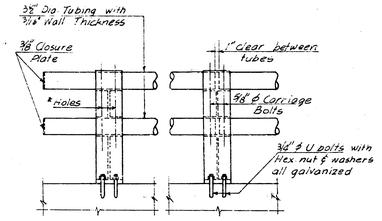
PLAN



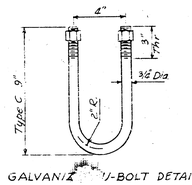
SECTION A-A

SPECIAL PAVEMENT REINFORCEMENT - ORME AT R.C.B.C.

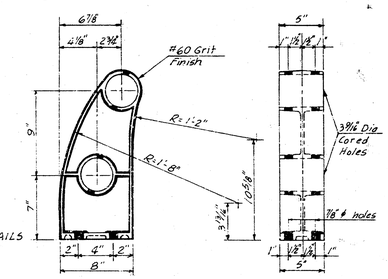




*Holes: 1 1/16" Square holes in post under head and 1 1/16" round holes under nuts for 5/8" ϕ x 5½" carriage bolts with hex. nuts



GALVANIZED U-BOLT DETAILS



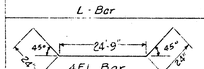
POST FOR TYPE C RAIL

ALUMINUM HANDRAIL DETAILS TYPE C

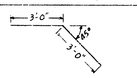
BENT BARS

BAR	SIZE	a	b	Length
5L1	5/8" ϕ	2'-9"	3'-6"	6'-3"
5L2	5/8" ϕ	3'-3"	2'-0"	5'-3"
4L3	½" ϕ	2'-9"	4'-9"	7'-6"
4L4	½" ϕ	3'-0"	3'-0"	6'-0"
4L5	½" ϕ	2'-6"	2'-6"	5'-0"

L - Bar



4E1 Bar
Size - ½" ϕ Length - 28'-9"



5F1 Bar
Size - 5/8" ϕ Length = 6'-0"



5P1 Bar
Size - 5/8" ϕ Length = 7'-6"



4U1 Bar
Size - ½" ϕ Length = 3'-11"

Minimum radius for bar bends shall be 4 bar diameters

CULVERT & PAVEMENT
ORME & ARMOUR

10
10

SCALE	REVISIONS	BY	DATE
DATE			
DATE	DATE		
APP'VD			
TITLE			