HOLIDAY INN-EAST
LIGHTNER ADDITION

BOX CULVERT

SANITARY SEWERS

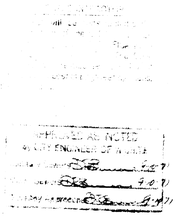
STORM WATER SEWERS

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





K. O. TAYLOR, P.E.
AUGUST, 1971

N

1" = 20'

EXISTING
NH FL 145.84
DEPTH - 2.85'

EX 4" LINE FROM SWIMMING POOL

DRIVE

ARMOUR

NEW DRIVE

TEA TREES

EX 4" FL 145.14

NEW 4" S/W

ADD 4" C.I.P.

PROPERTY LINE

188.50'

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

CONSTRUCT 15" STORM SEWER

EX TREES

CONSTRUCT 4' S/W

ADJUST M.H. TO GRADE

20' EASEMENT MISC. BOOK 701, PG 520

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

CLOSE INTERSECTION

EXISTING 15" CAN SEWER

N.E.L.C.C.

NOTIFICATION TO BE GIVEN
EXISTING
EX. MH FL 143.42 IN
EX. MH FL 143.12 OUT

VACATED STREET

EX. ASPHALT PAVING

RELOCATION 15" SAN. SEWER

EXISTING
NH FL 142.67
DEPTH 14.0'

58 EXISTING UNITS

EX. TREES

EX 18" STORM SEWER

FL 147.85
FL 147.99

BLDG ON ℄

CALHOUN DRIVE

CL UNITC

EX 8" WATER LINE

RELOCATION 8" SAN. SEWER

CONSTRUCT P.C. CONC. PAVEMENT

CONSTRUCT INTERSECTION

NEW 4" S/W

REMOVE EX PIPE & INLETS

36" DRAINAGE EASEMENT

IRON STREET

EX SEWER

CONSTRUCT CONTROL ACCESS

CONSTRUCT INLET
(STANDARD 2'-6")

EX HOUSE REMOVED

EX HOUSE REMOVED

EX HOUSE REMOVED

INSTALL GRADE TO BE

BOOK 80, PAGE 88

EX RETAINING WALL

EXISTING
FL MH 142.25
TOP - 152.1

EXISTING 8" SANITARY SEWER

EXISTING
FL MH 142.51

EXISTING WATER LINE

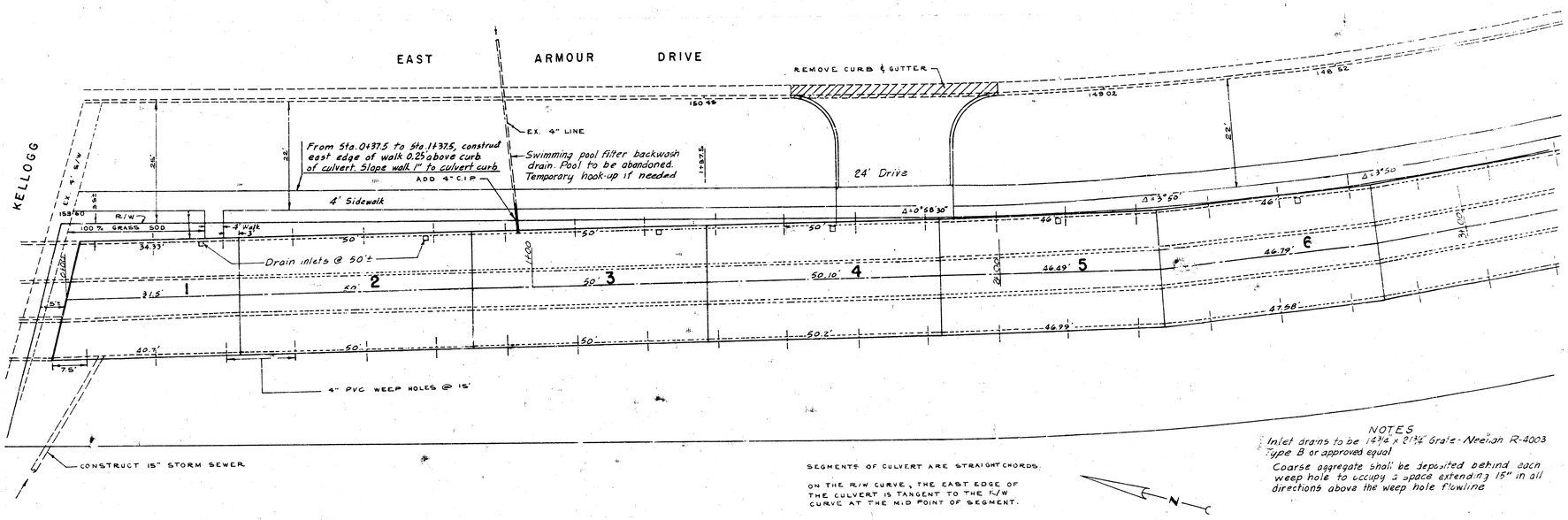
REVISED JULY 24 1972 TO SHOWN ACCESS CONTROL ALONG NORTH LINE OF LOT 2, BLK A, LIGHTNER ADDITION

REVISED JUNE 27, 1972 TO SHOW REMOVED EXISTING HOUSES.

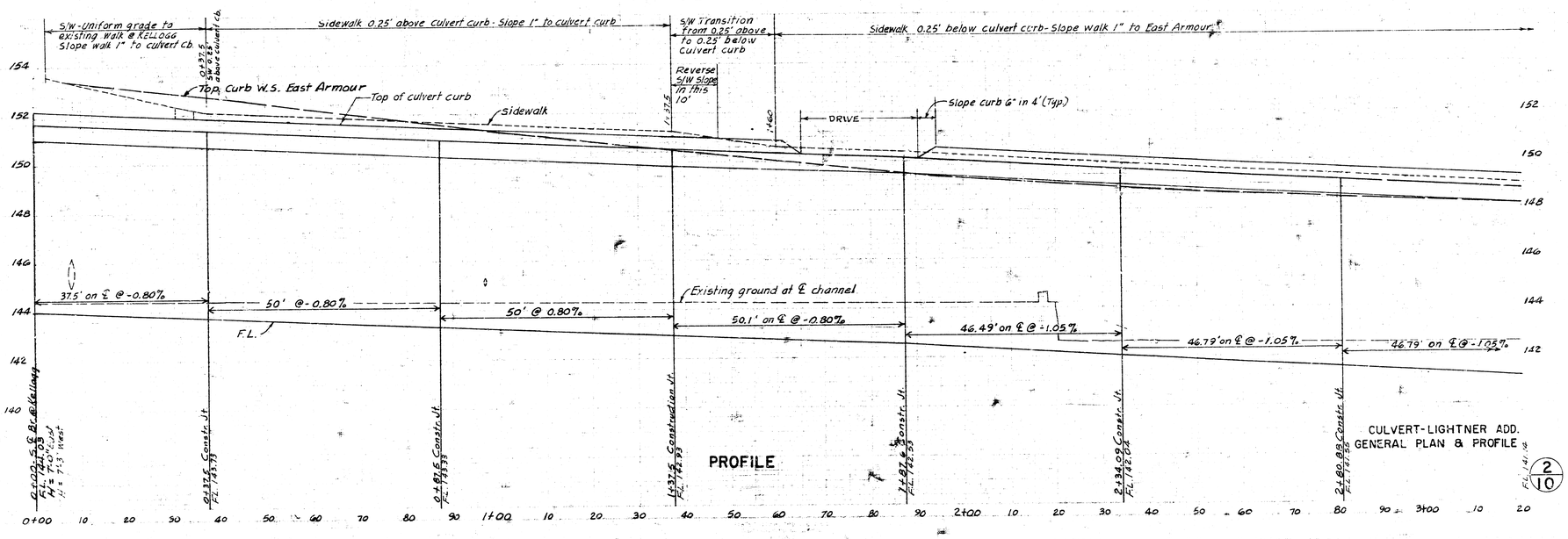
REVISED NOV. 30, 1971 TO SHOW SEWER RELOCATION & DRAINAGE EASEMENT VACATION.

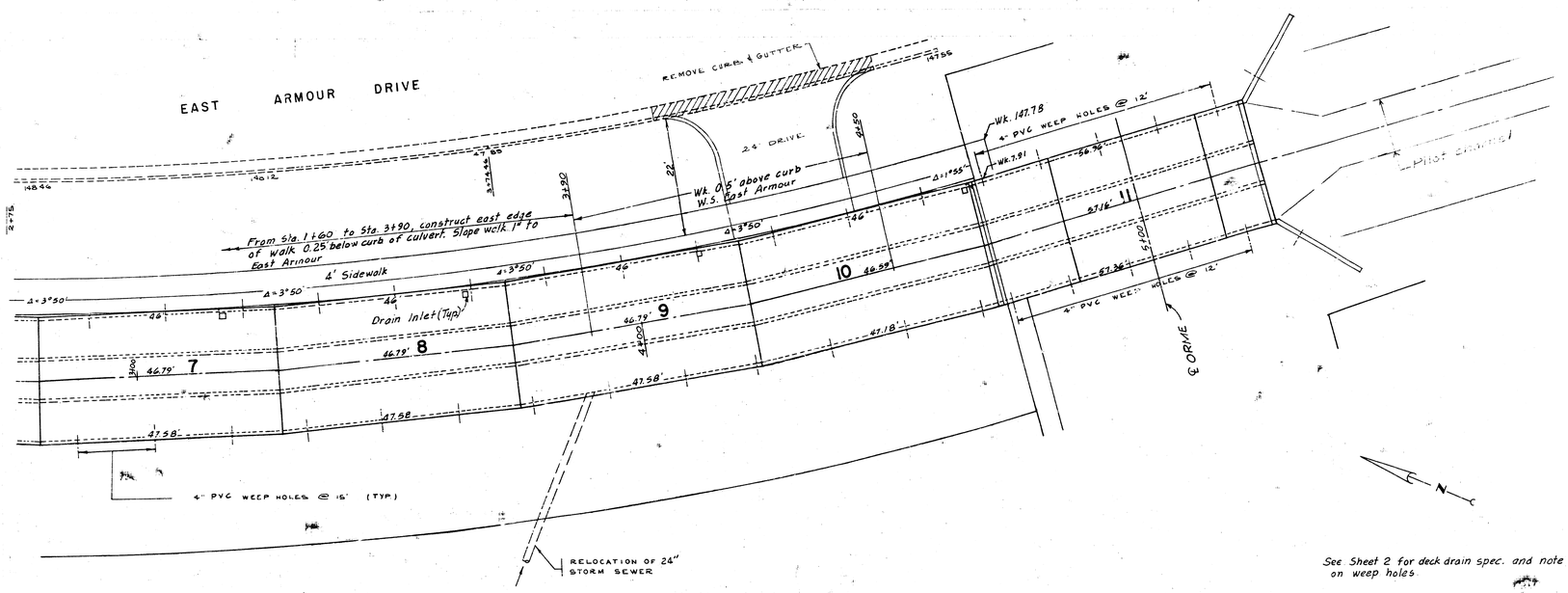
SITE PLAN- LIGHTNER ADDITION

1/10

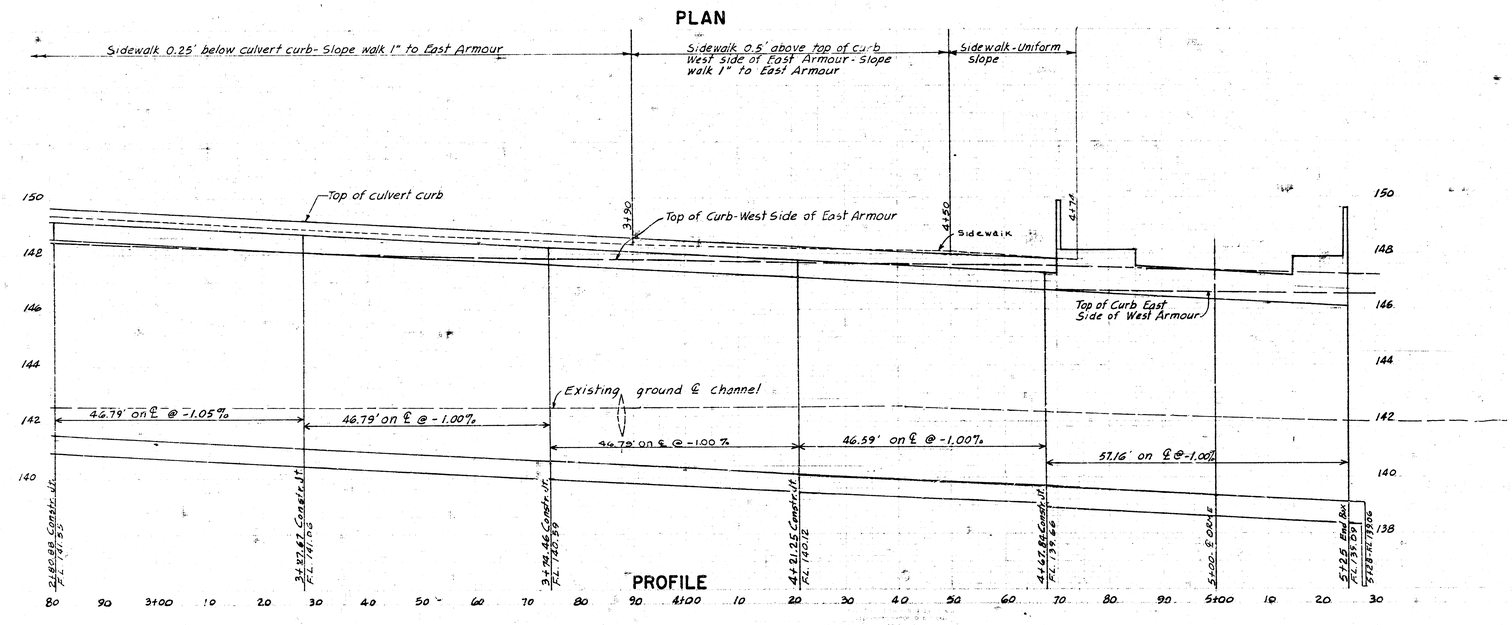

EAST ARMOUR DRIVE
KELLOGG
REMOVE CURB & GUTTER
EX. 4" LINE
From Sta. 0+37.5 to Sta. 1+37.5, construct east edge of walk 0.25' above curb of culvert. Slope walk 1" to culvert curb.
ADD 4" C.I.P.
Swimming pool filter backwash drain. Pool to be abandoned. Temporary hook-up if needed
24' Drive
4' Sidewalk
4' Walk in 3
100% GRASS SOD
R/W
Drain inlets @ 50'±
4" PVC WEEP HOLES @ 15'
CONSTRUCT 15" STORM SEWER
Δ=3°50'
Δ=0°58'30"
1
2
3
4
5
6
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.
N
NOTES
Inlet drains to be 14¾" x 21¾" 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
Top Curb W.S. East Armour
Top of culvert curb
Sidewalk
Reverse S/W slope in this 10'
DRIVE
Slope curb 6" in 4' (Typ.)
37.5' on ℄ @ -0.80%
50' @ -0.80%
50' @ 0.80%
Existing ground at ℄ channel
50.1' on ℄ @ -0.80%
46.49' on ℄ @ -1.05%
46.79' on ℄ @ -1.05%
46.79' on ℄ @ -1.05%
F.L.
0+00 Const. ℄ Kellogg FL 142.50 Rt = 7.0% out 11 = 7.1% West
0+37.5 Const. Jt FL 143.13
0+87.5 Const. Jt FL 143.53
1+37.5 Construction Jt FL 143.93
1+87.5 Const. Jt FL 142.53
2+34.09 Const. Jt FL 142.02
2+80.88 Const. Jt FL 141.55
PROFILE
CULVERT - LIGHTNER ADD. GENERAL PLAN & PROFILE
2/10

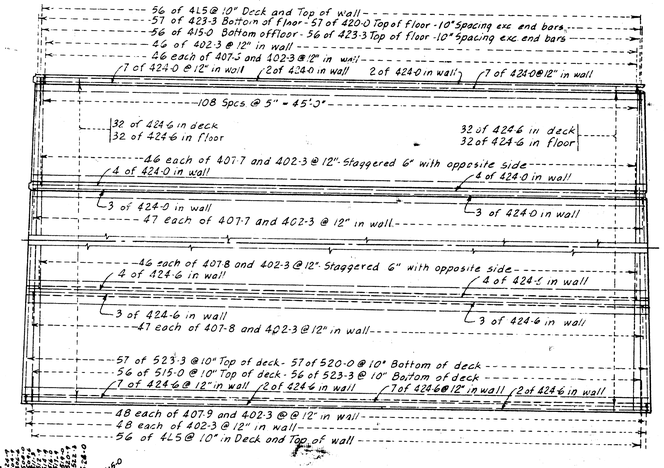


See Sheet 2 for deck drain spec. and note on weep holes.

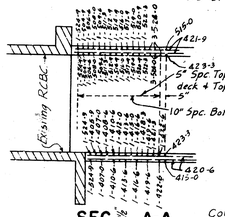


CULVERT - LIGHTNER ADDITION
GENERAL PLAN & PROFILE

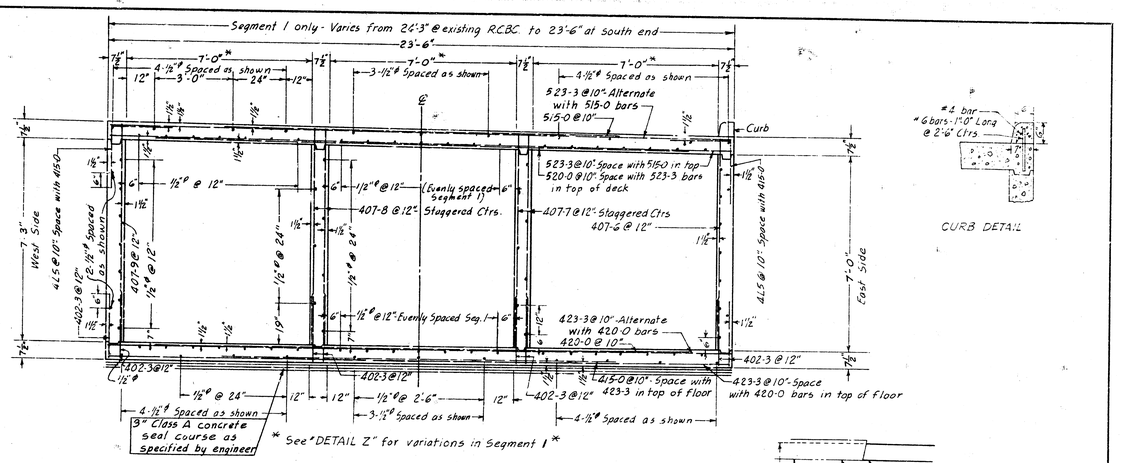
3/10



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



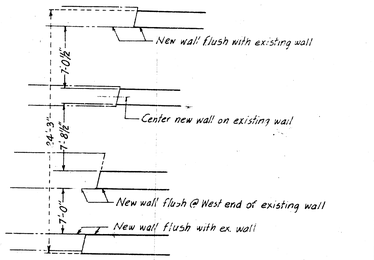
SEC. A-A



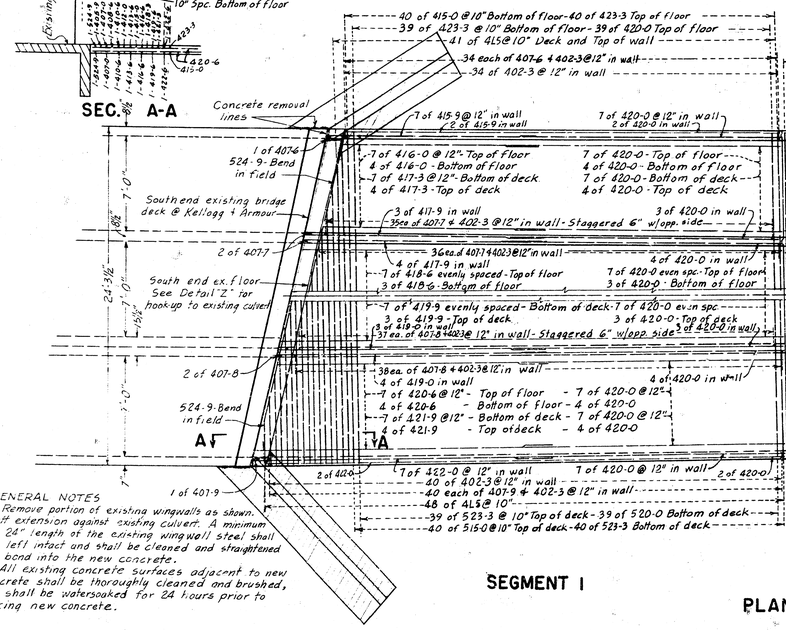
* See "DETAIL Z" for variations in Segment 1 *

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

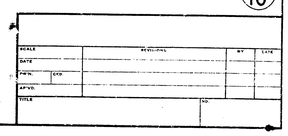
GENERAL NOTES

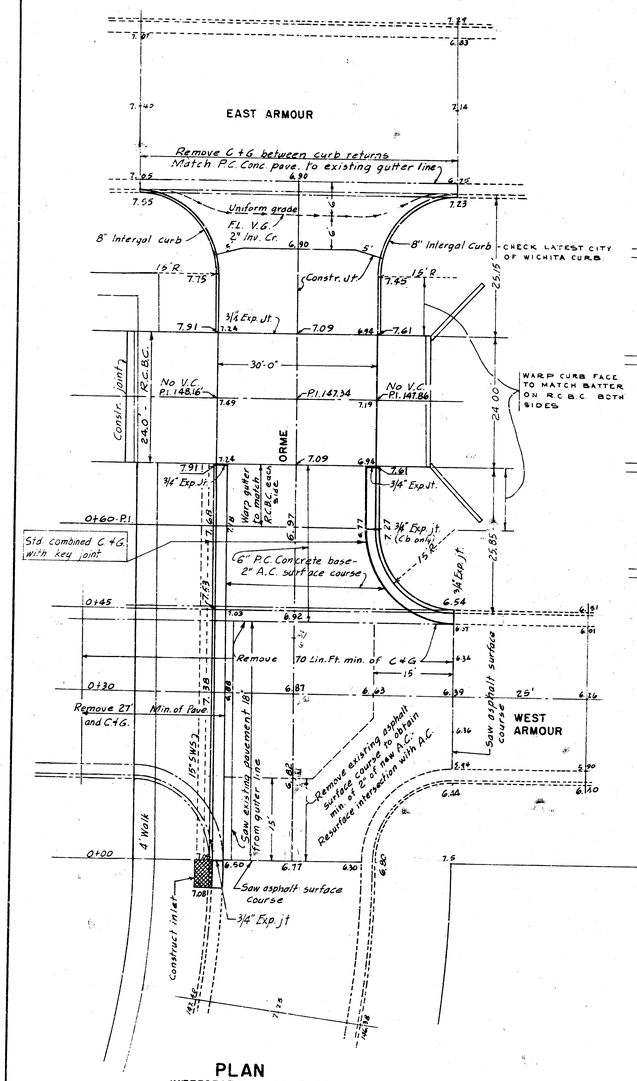
Remove portion of existing wingwalls as shown. Butt extension against existing culvert. A minimum of 24" length of the existing wingwall steel shall be left intact and shall be cleaned and straightened to bond into the new concrete.

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.

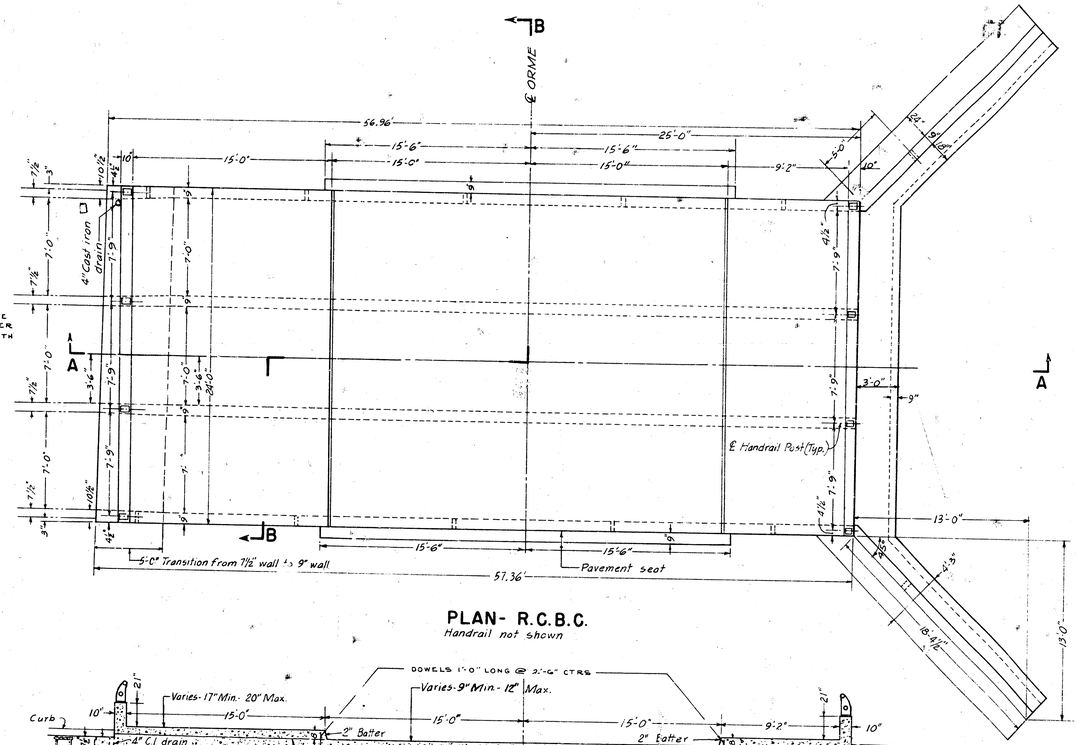
R. C. B. C. - LIGHTNER ADDITION

4/10

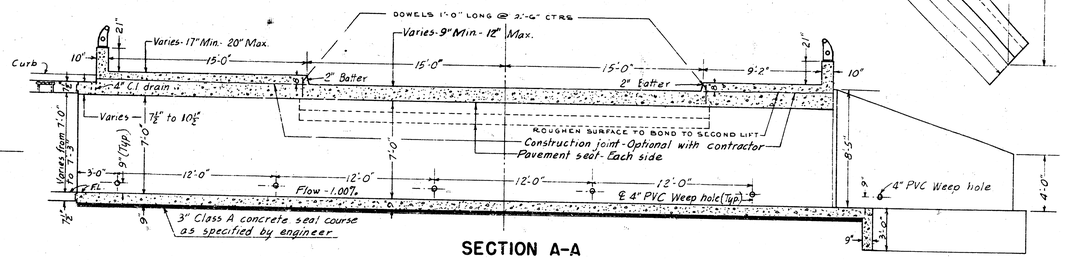




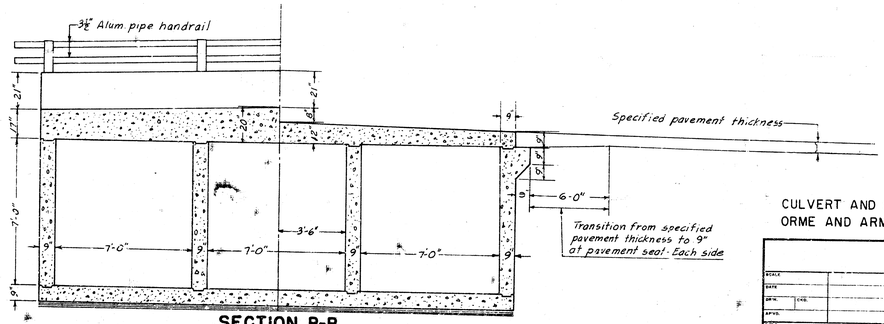
PLAN
INTERSECTION- ORME & ARMOUR
1" = 10'



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



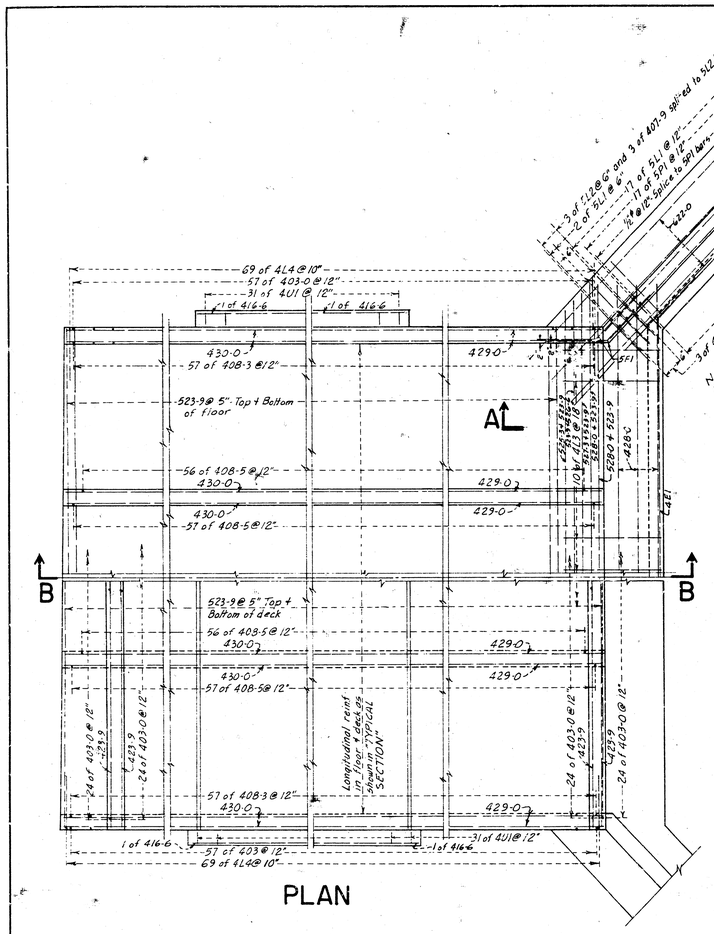
SECTION A-A



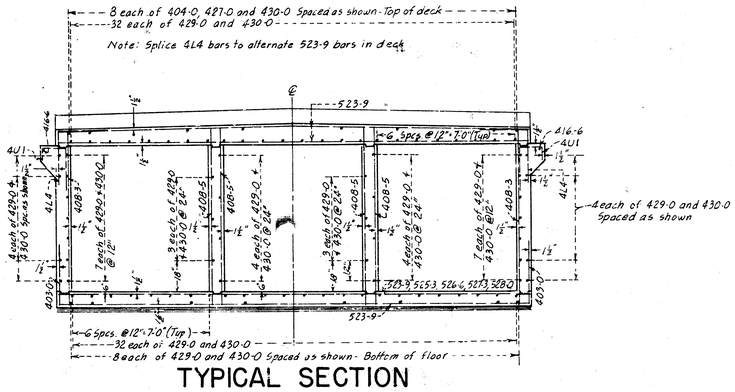
SECTION B-B

CULVERT AND STREET
ORME AND ARMOUR

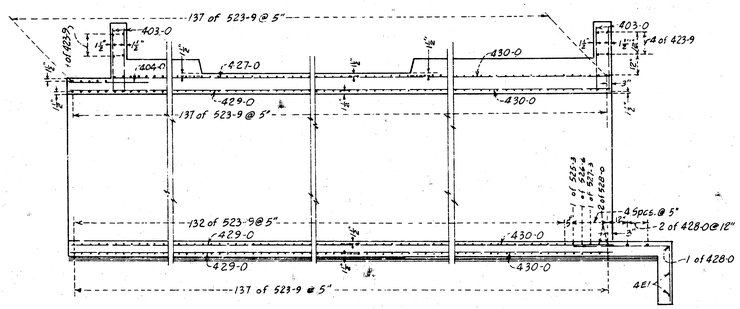
5
10



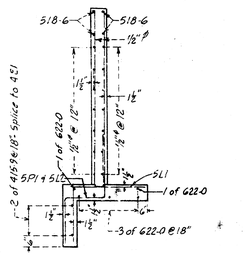
PLAN



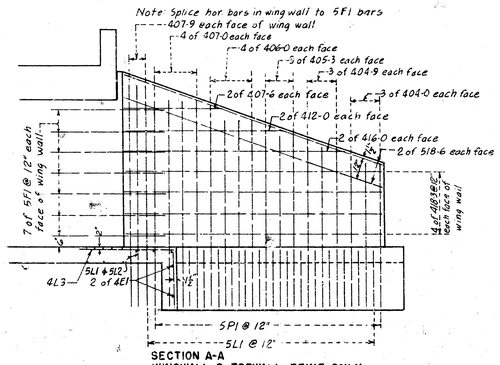
TYPICAL SECTION



SECTION B-B
WALL REINFORCEMENT NOT SHOWN



SECTION THRU WINGWALL

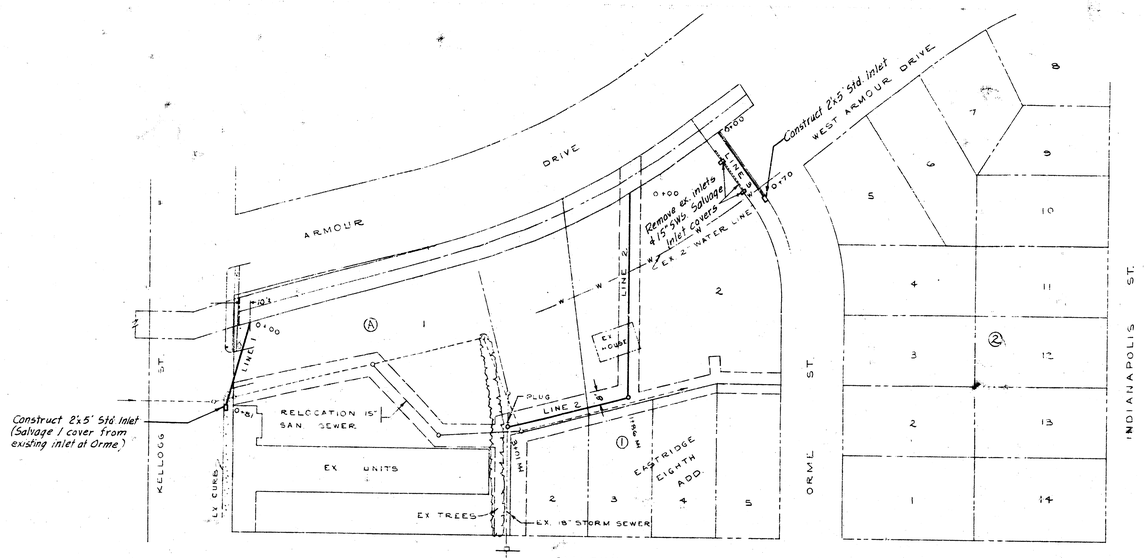


SECTION A-A
WINGWALL & TOEWALL REINF. ONLY

6/10

R.C.B.C. – ORME & ARMOUR REINFORCEMENT

SCALE	REVISIONS	NO.	DATE
DATE			
DR'N. CHKD.			
APP'D.			
TITLE		NO.	



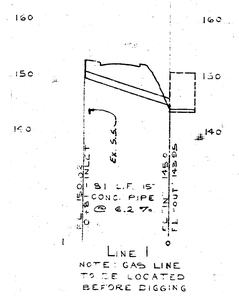
1" = 50'

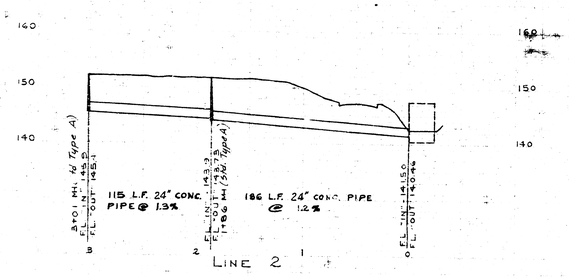
NOTE

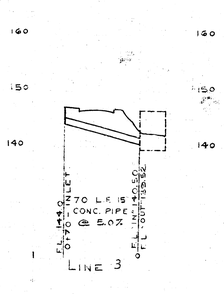
ALL SEWER LINES TO BE BACKFILLED WITH SAND AND FLUSHED.

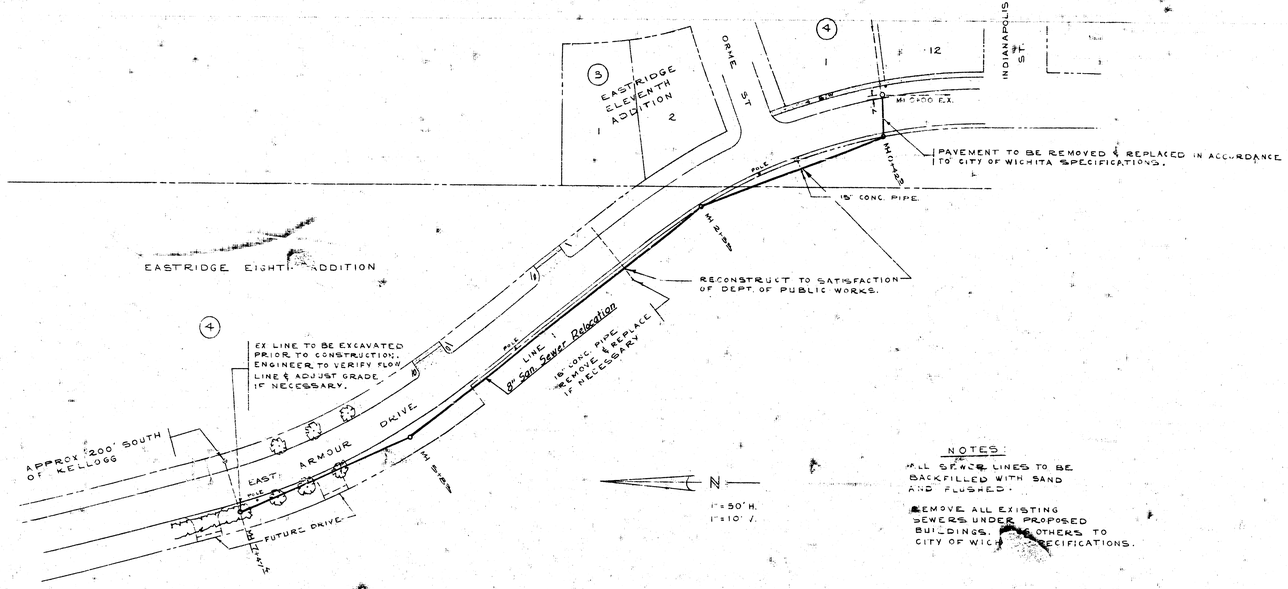
REMOVE ALL EXISTING SEWERS UNDER PROPOSED BUILDINGS. PLUG OTHERS TO CITY OF WICHITA SPECIFICATIONS.

STORM SEWER RELOCATION LIGHTNER ADDITION TO WICHITA, KANSAS





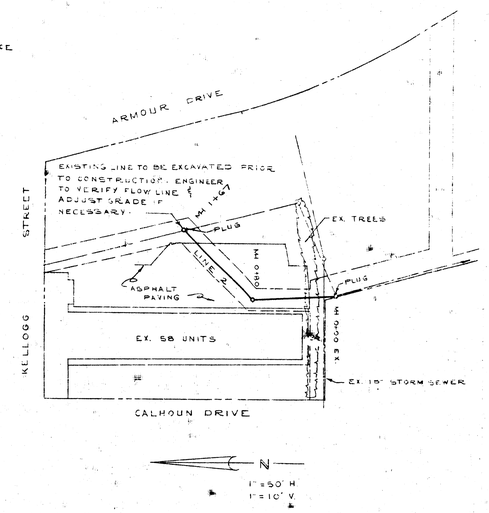




NOTES:

ALL SEWER LINES TO BE BACKFILLED WITH SAND AND FLUSHED.

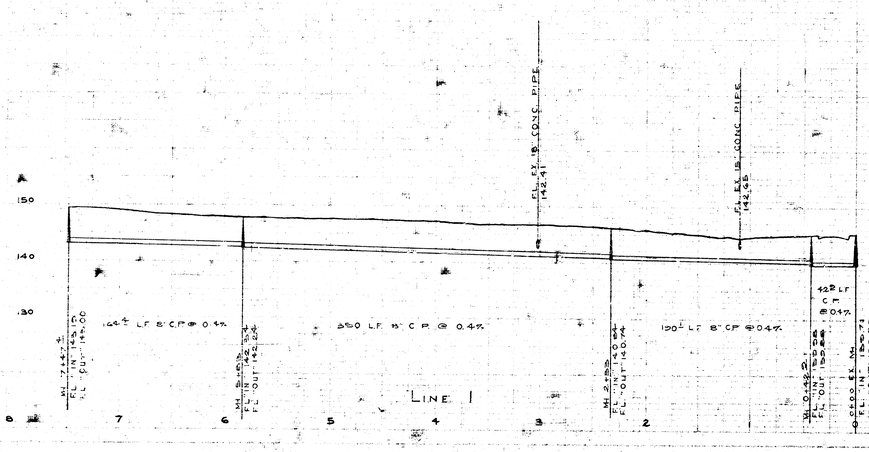
REMOVE ALL EXISTING SEWERS UNDER PROPOSED BUILDINGS. & OTHERS TO CITY OF WICHITA SPECIFICATIONS.

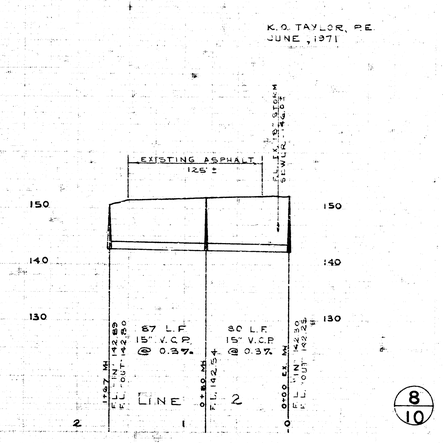


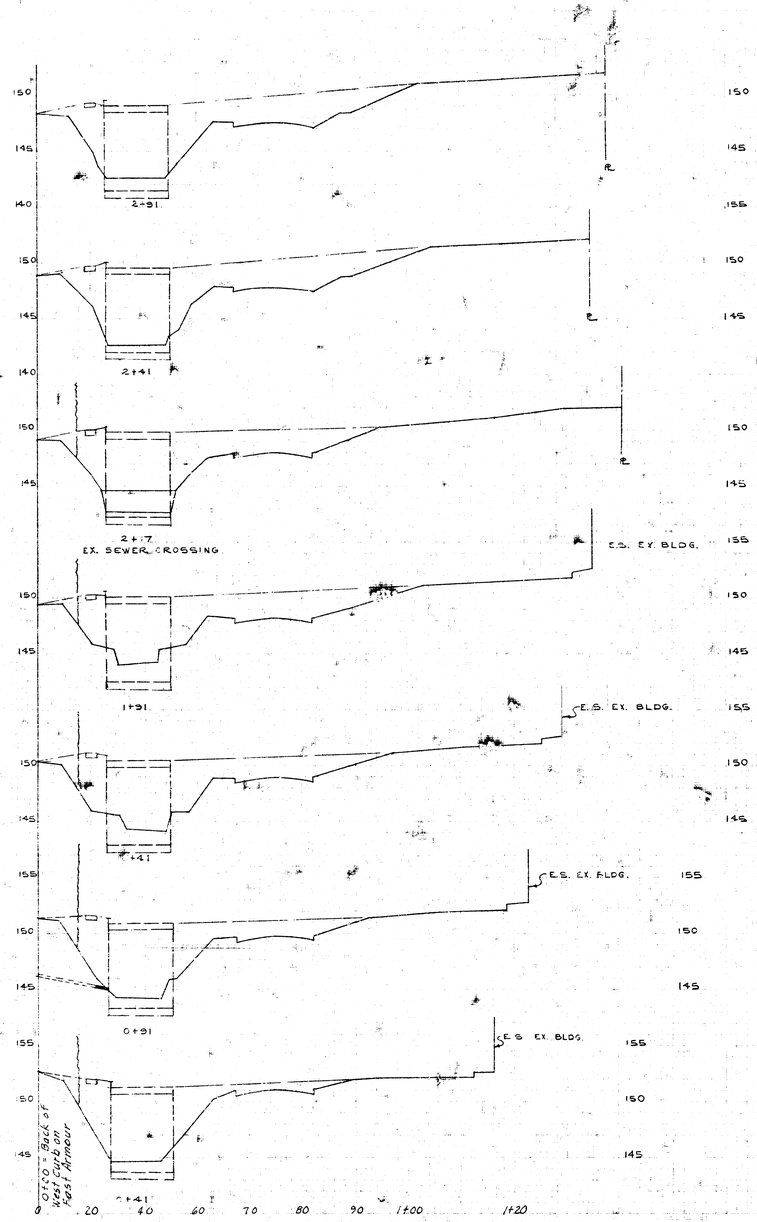
SANITARY SEWER RELOCATION LIGHTNER ADDITION TO WICHITA, KANSAS

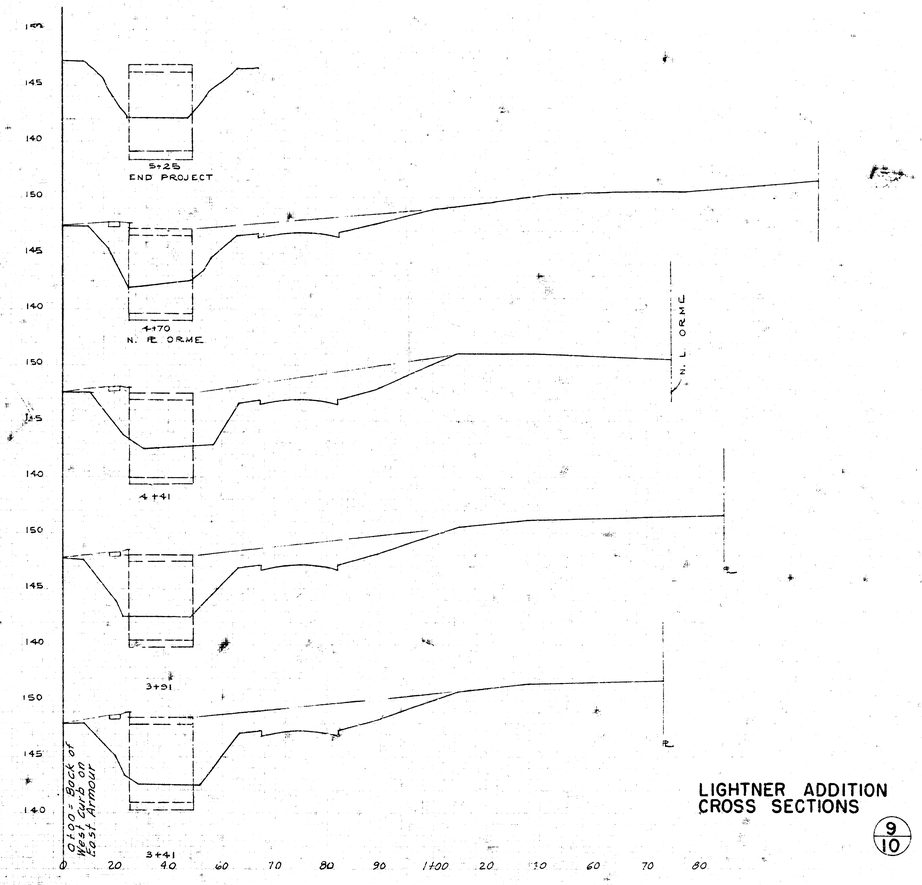
AS BUILT

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



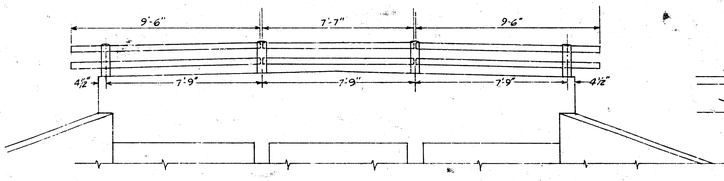




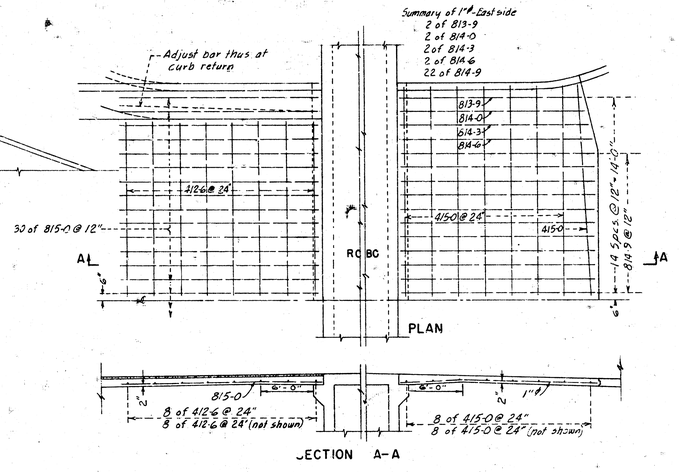


LIGHTNER ADDITION CROSS SECTIONS

9/10

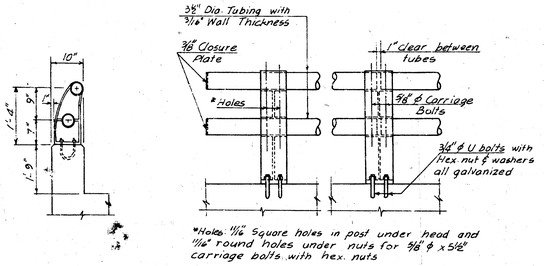


ELEVATION

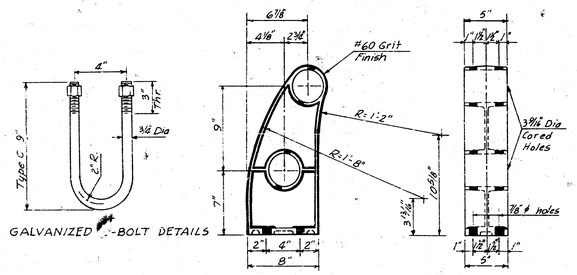


SECTION A-A

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



*Holes 1⅛" square holes in post under head and 1⅛" round holes under nuts for ⅝" ϕ x 5½" carriage bolts with hex. nuts



GALVANIZED U-BOLT DETAILS

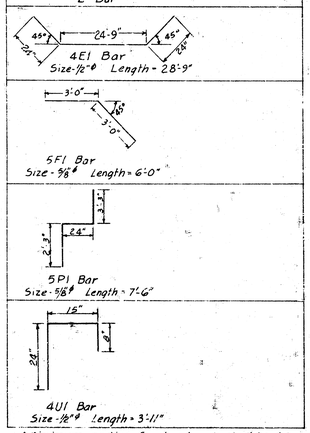
POST FOR TYPE C RAIL

ALUMINUM HANDRAIL DETAILS TYPE C

BENT BARS

BAR	SIZE	a	b	Length
5L1	⅝" ϕ	2'-9"	3'-6"	6'-3"
5L2	⅝" 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



Minimum radius for bar bends shall be 4 bar diameters

CULVERT & PAVEMENT
ORME & ARMOUR

10
10

SCALE	REVISIONS	BY	DATE
DATE			
DES.	CHD.		
APPR.			
TITLE			