HOLIDAY INN-EAST
LIGHTNER ADDITION

BOX CULVERT

SANITARY SEWERS

STORM WATER SEWERS

RECONSTRUCTION OF STREET

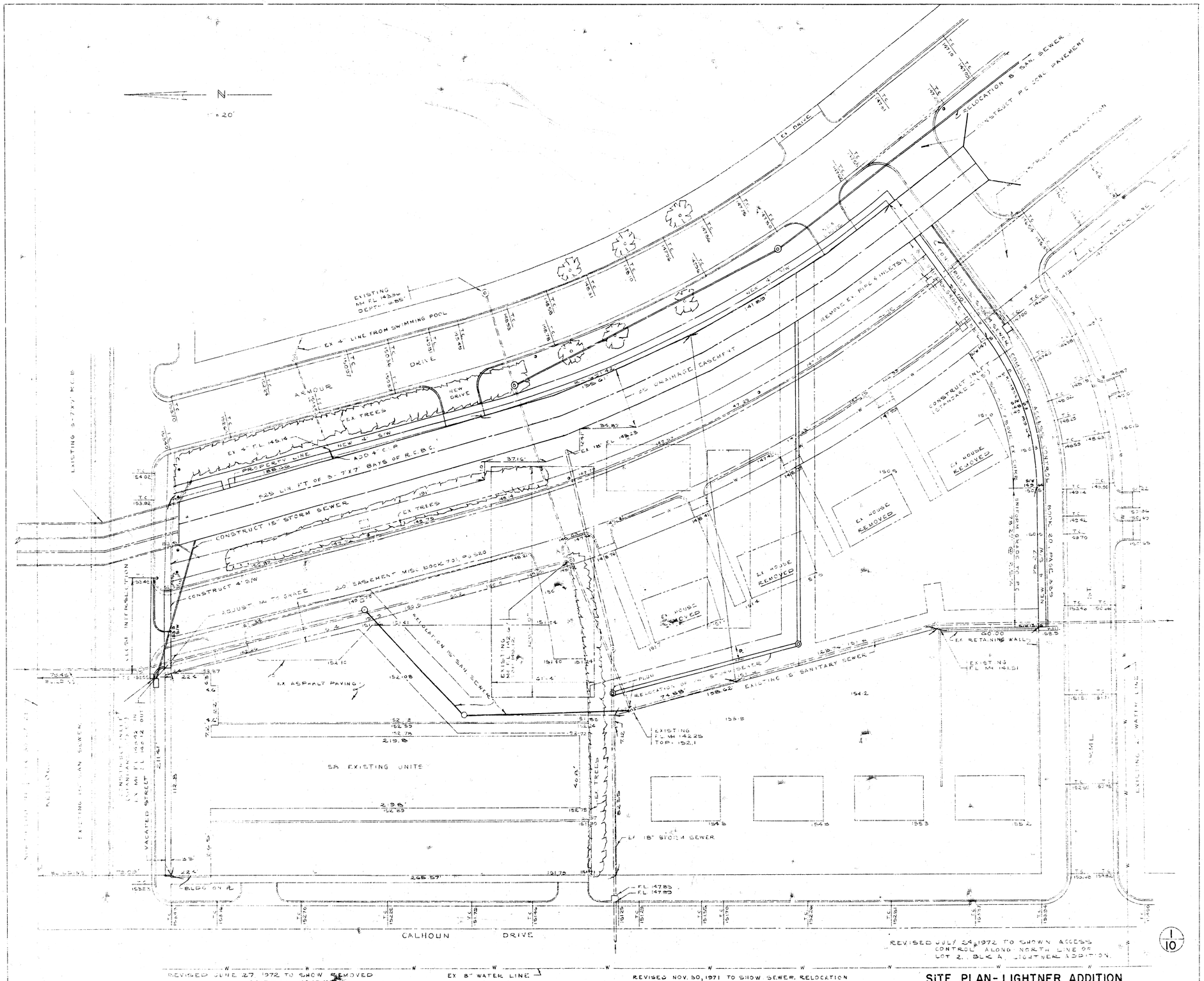
SIDEWALKS

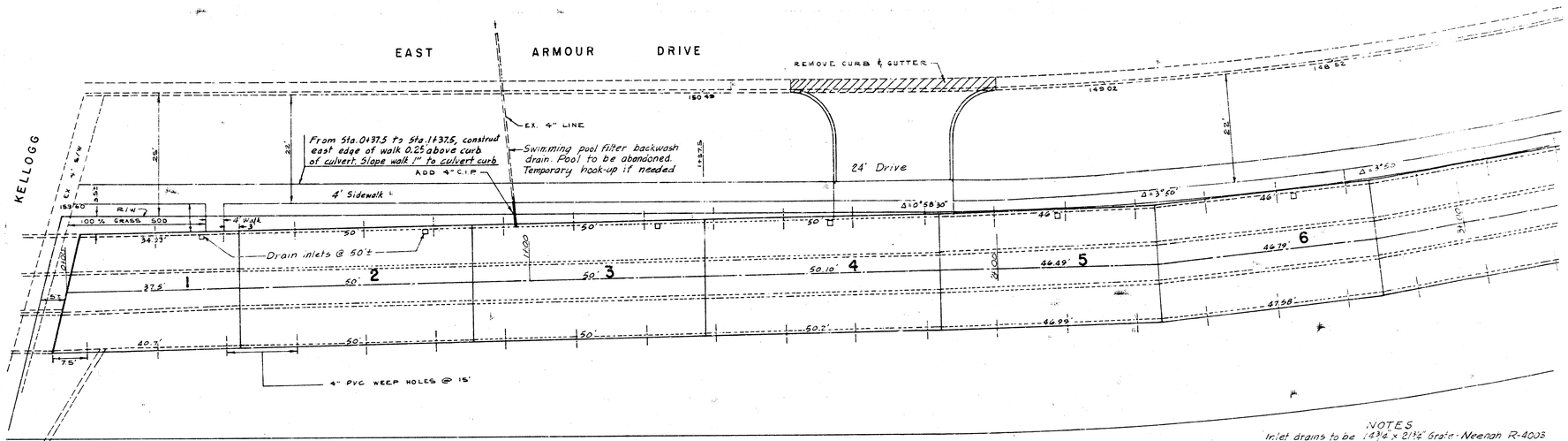
INDEX

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
M.H. FL. 145.34
DEPTH 4.85'
EX 4" LINE FROM SWIMMING POOL
ARMOUR
DRIVE
NEW DRIVE
EX TREES
EX 4" FL 145.14
NEW 4" S/W
PROPERTY LINE
ADJ 4" C.I.P.
525 LIN FT OF 3' 7X7 BAYS OF R.C.B.C.
CONSTRUCT 18" STORM SEWER
CONSTRUCT 4' S/W
ADJUST M.H. TO GRADE
20' EASEMENT MISC. BOOK 731, PG. 520
RELOCATION 18" SAN. SEWER
EXISTING M.H. FL. 142.9
EX ASPHALT PAVING
EXISTING 5-7X7 R.C.B.
EXISTING 18" SAN. SEWER
VACATED STREET
EXISTING UNITS
EX 18" STORM SEWER
BLDG ON ℄
FL 147.85
FL 147.85
CALHOUN DRIVE
EX 8" WATER LINE
EX DRIVE
RELOCATION & SAN. SEWER
CONSTRUCT PC CONC. PAVEMENT
CONSTRUCT INTERSECTION
REMOVE EX. PIPE & INLETS
20' DRAINAGE EASEMENT
EX HOUSE REMOVED
EX HOUSE REMOVED
EX HOUSE REMOVED
EX HOUSE REMOVED
CONSTRUCT INLET (DRAINAGE EASEMENT)
EXISTING 18" SAN. SEWER
EXISTING 8" WATER LINE
EX RETAINING WALL
EXISTING M.H. FL 141.51
EXISTING FL M.H. 142.25
TOP. 152.1
EXISTING 8" SANITARY SEWER
RELOCATION OF 18" STORM SEWER
PLUG
EXISTING M.H. FL 142.42 IN
FL 142.12 OUT
EXISTING 18" SAN. SEWER
EXISTING 8" WATER LINE
REVISED JULY 24, 1972 TO SHOW 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



SEGMENTS OF CULVERT ARE STRAIGHT CHORDS.

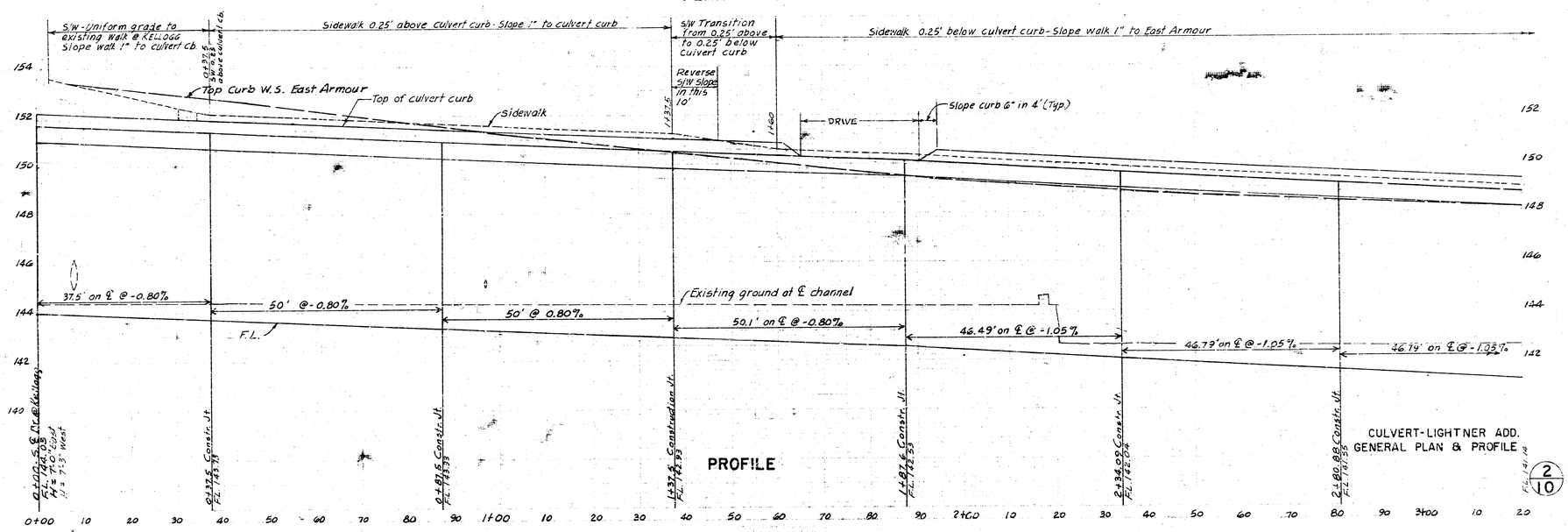
ON THE R/W CURVE, THE EAST EDGE OF THE CULVERT IS TANGENT TO THE R/W CURVE AT THE MID POINT OF SEGMENT.

NOTES

Inlet drains to be 14¾" x 21¾" Grate - Neenah R-4003 Type B or approved equal

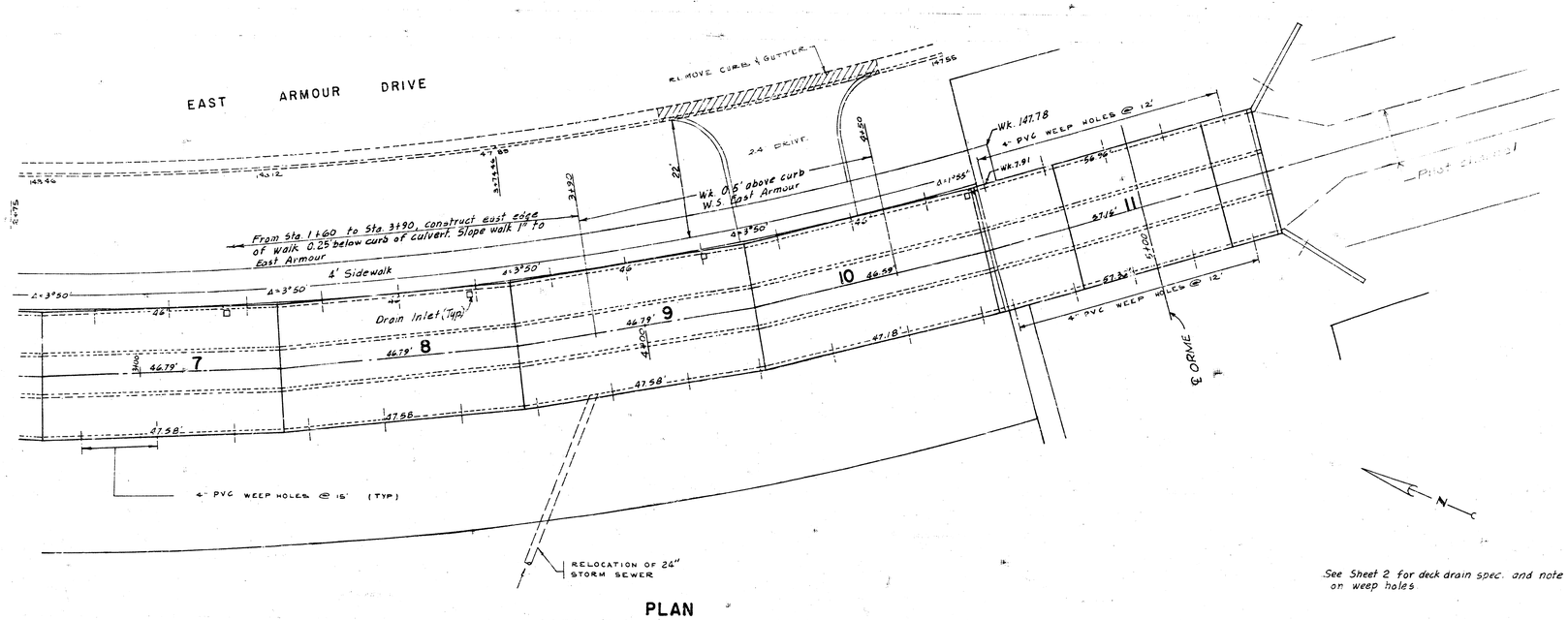
Coarse aggregate shall be deposited behind each weep hole to occupy a space extending 15" in all directions above the weep hole flowline

PLAN



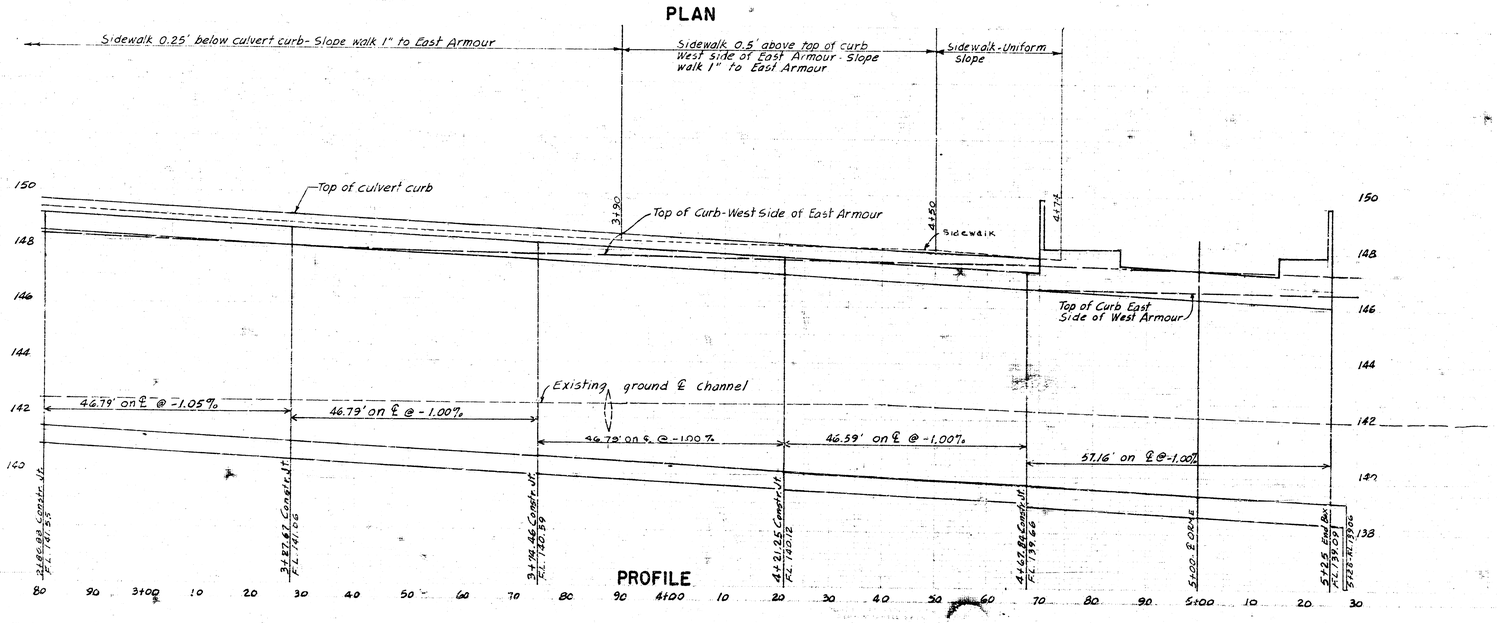
CULVERT-LIGHTNER ADD.
GENERAL PLAN & PROFILE

2/10



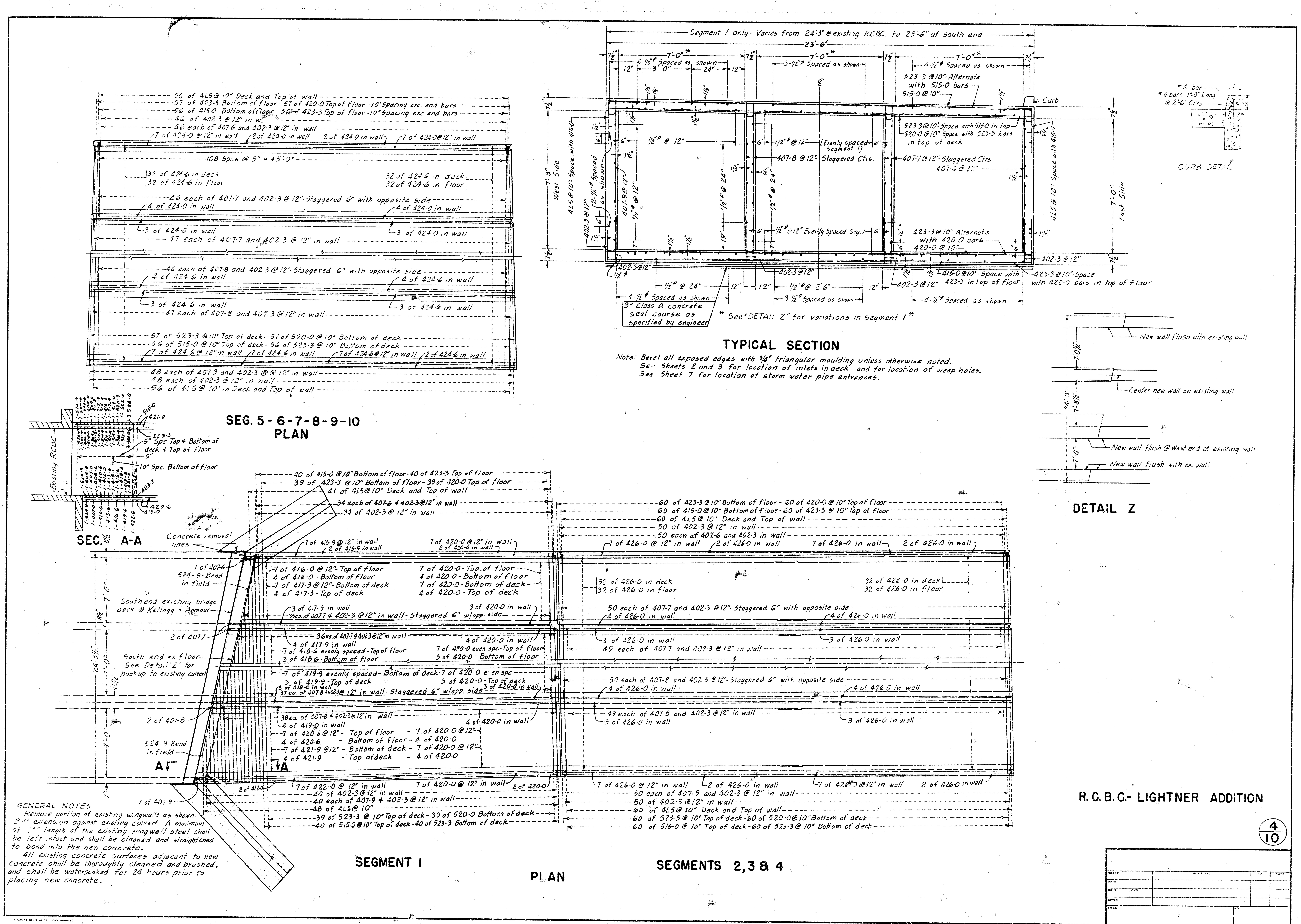
See Sheet 2 for deck drain spec. and note on weep holes

PLAN



CULVERT- LIGHTNER ADDITION
GENERAL PLAN & PROFILE

3/10



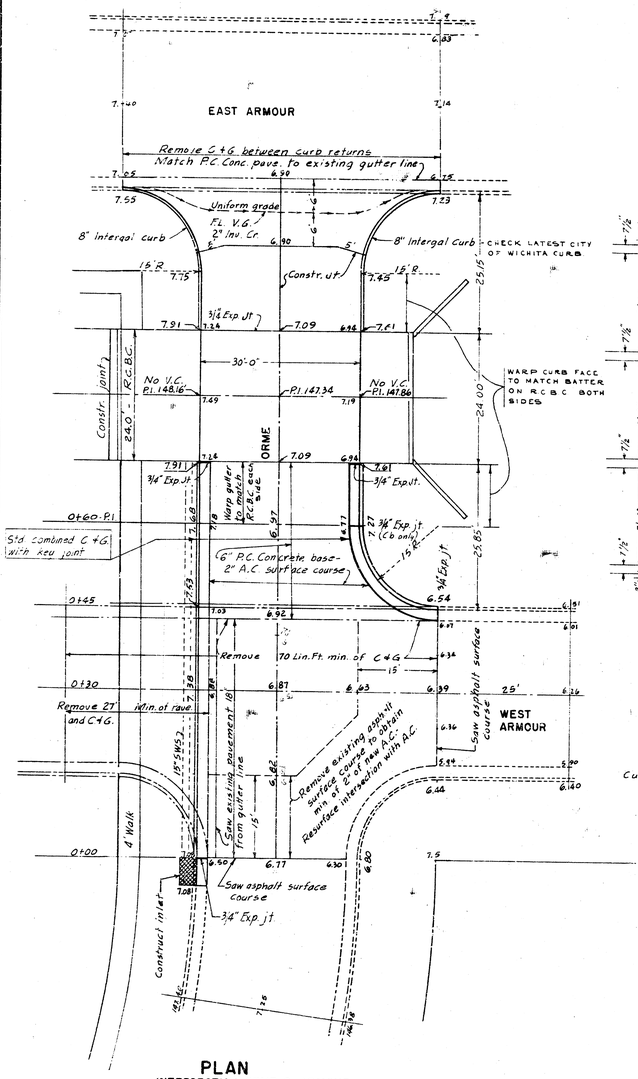
Note: Bevel all exposed edges with 3/4" triangular moulding unless otherwise noted.
See Sheets 2 and 3 for location of inlets in deck and for location of weep holes.
See Sheet 7 for location of storm water pipe entrances.

GENERAL NOTES

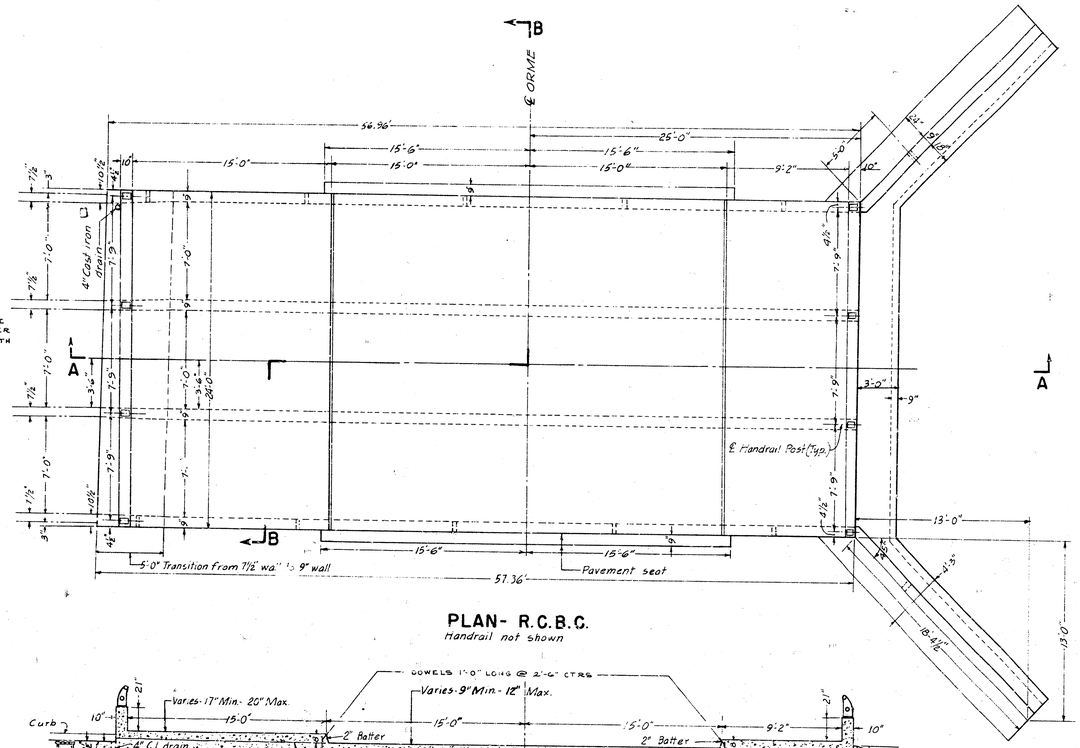
Remove portion of existing wingwalls as shown. Butt extension against existing culvert. A minimum of 24" length of the existing wingwall steel shall be left intact and shall be cleaned and straightened to bond into the new concrete.

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.

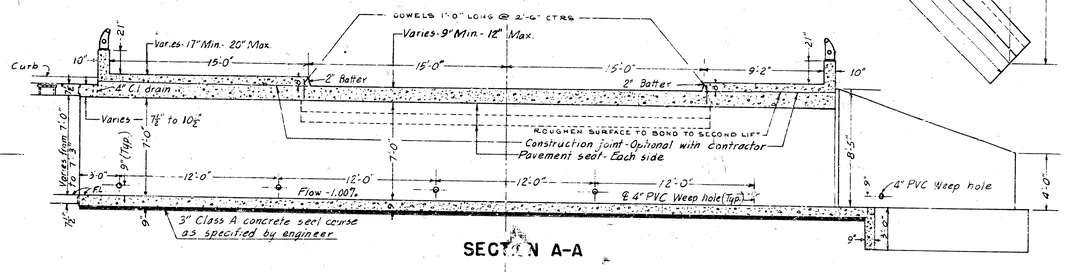
R.C.B.C.- LIGHTNER ADDITION



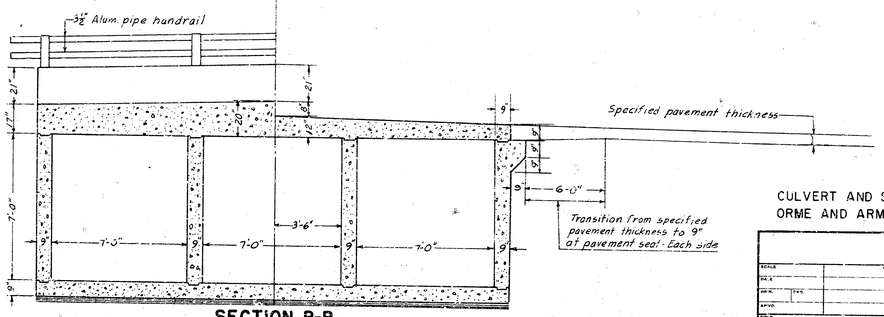
PLAN
INTERSECTION-ORME & ARMOUR
1" = 10'



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



SECTION A-A

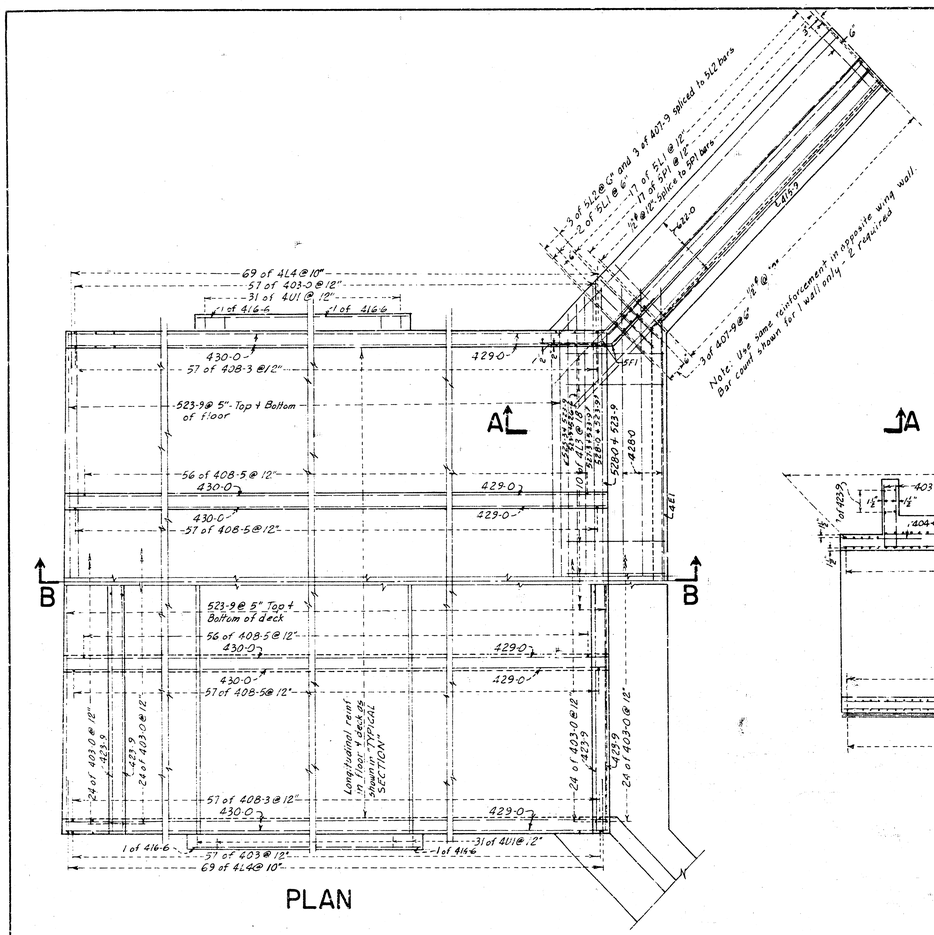


SECTION B-B

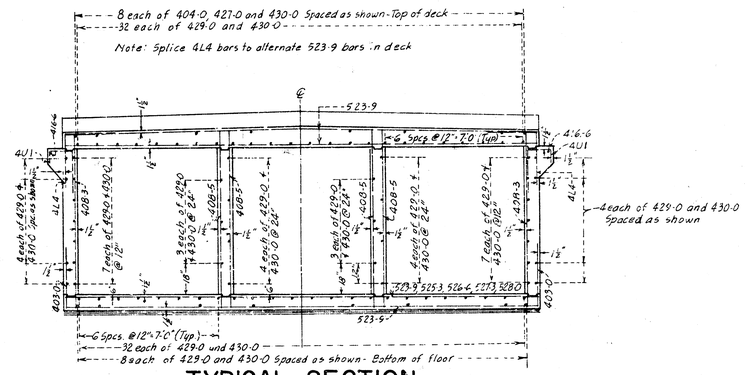
CULVERT AND STREET
ORME AND ARMOUR

5/10

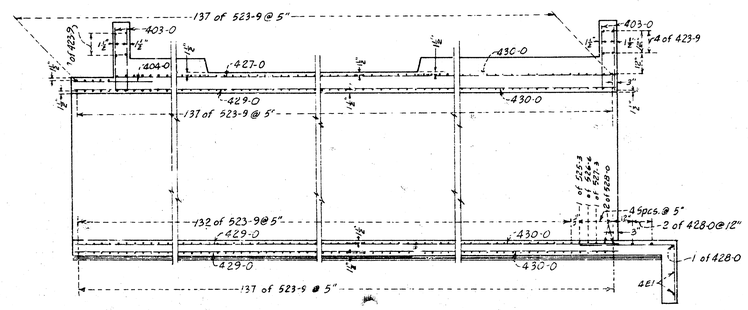
SCALE	REVISIONS	BY	DATE
DR.			
DR.	CHK.		
APVD.			
TITLE		NO.	



PLAN

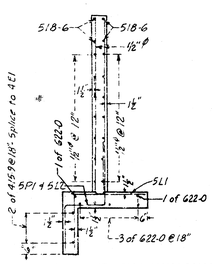


TYPICAL SECTION

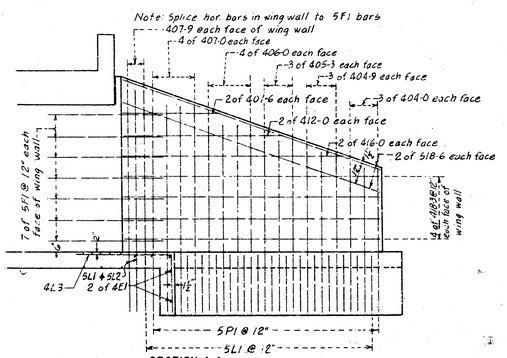


SECTION B-B

WALL REINFORCEMENT NOT SHOWN.



SECTION THRU WINGWALL



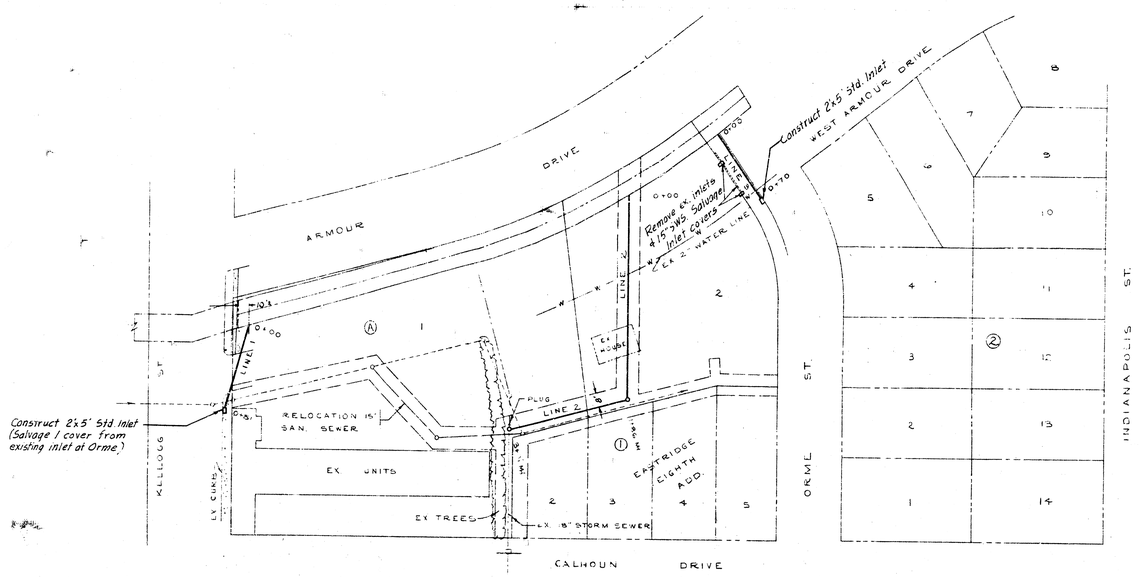
SECTION A-A

WINGWALL & TOEWALL REINF. ONLY

6/10

R.C.B.C.—ORME & ARMOUR REINFORCEMENT

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

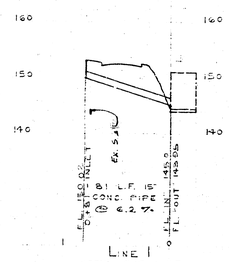


NOTE

ALL SEWER LINES TO BE BACKFILLED WITH SAND AND FLUSHED.

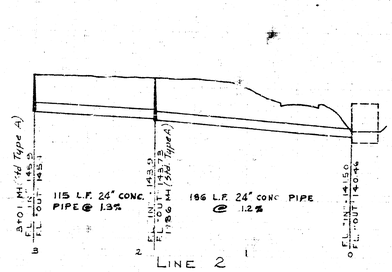
REMOVE ALL EXISTING SEWERS UNDER PROPOSED BUILDINGS. PLUG OTHERS TO CITY OF WICHITA SPECIFICATIONS.

STORM SEWER RELOCATION
LIGHTNER ADDITION TO
WICHITA, KANSAS

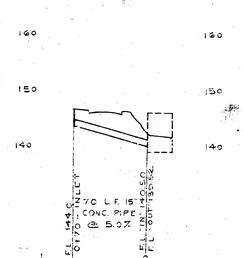


LINE 1

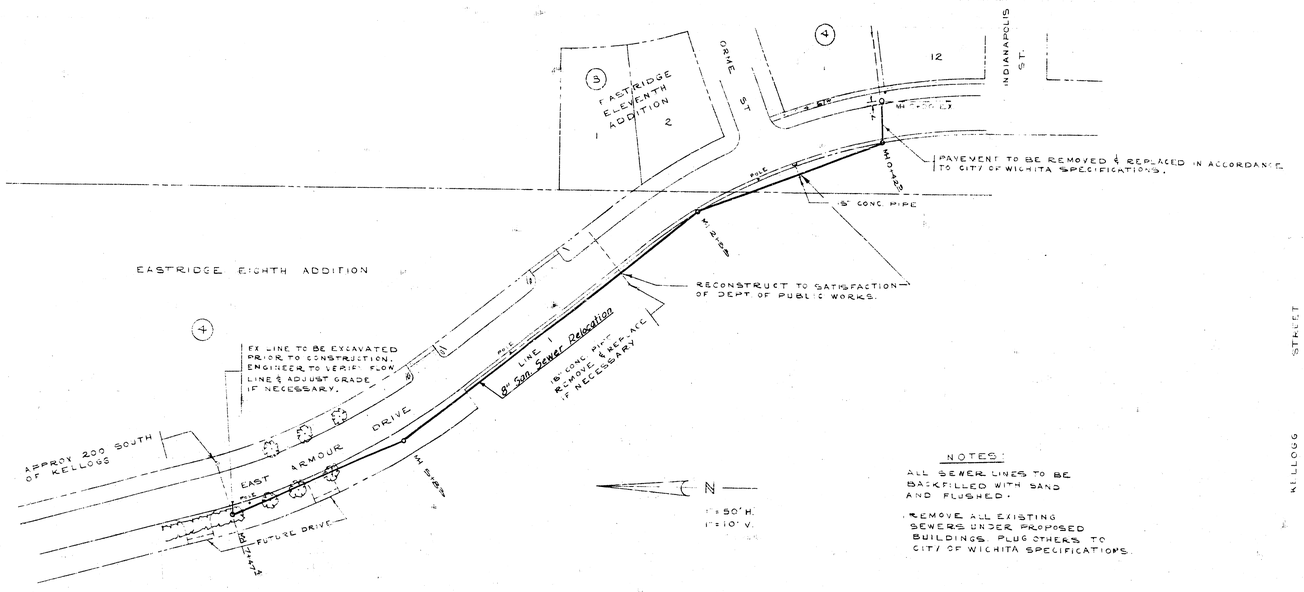
NOTE: GAS LINE TO BE LOCATED BEFORE DIGGING



LINE 2



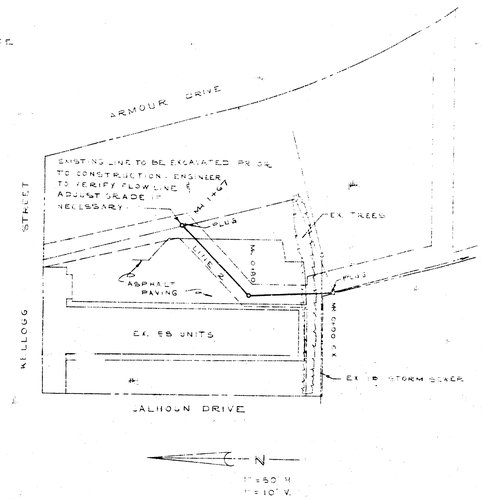
LINE 3



NOTES:

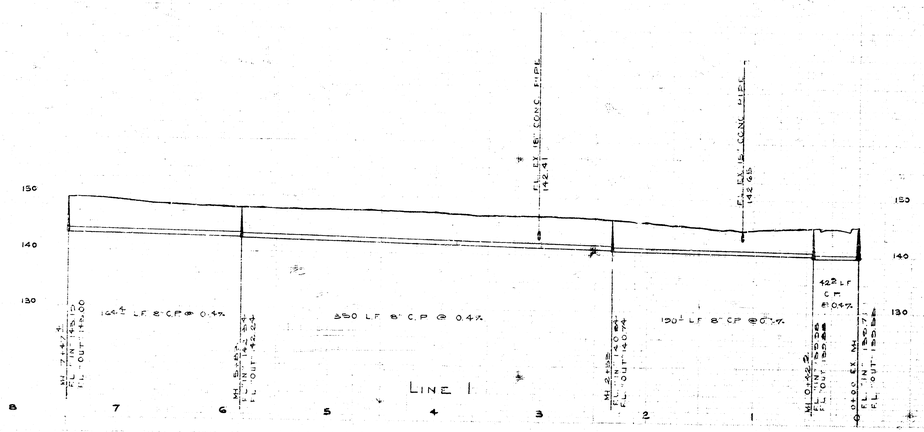
ALL SEWER LINES TO BE BACKFILLED WITH SAND AND FLUSHED.

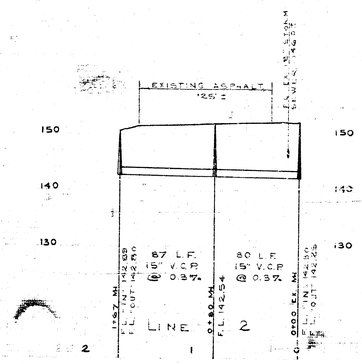
REMOVE ALL EXISTING SEWERS UNDER PROPOSED BUILDINGS. PLUG OTHERS TO CITY OF WICHITA SPECIFICATIONS.

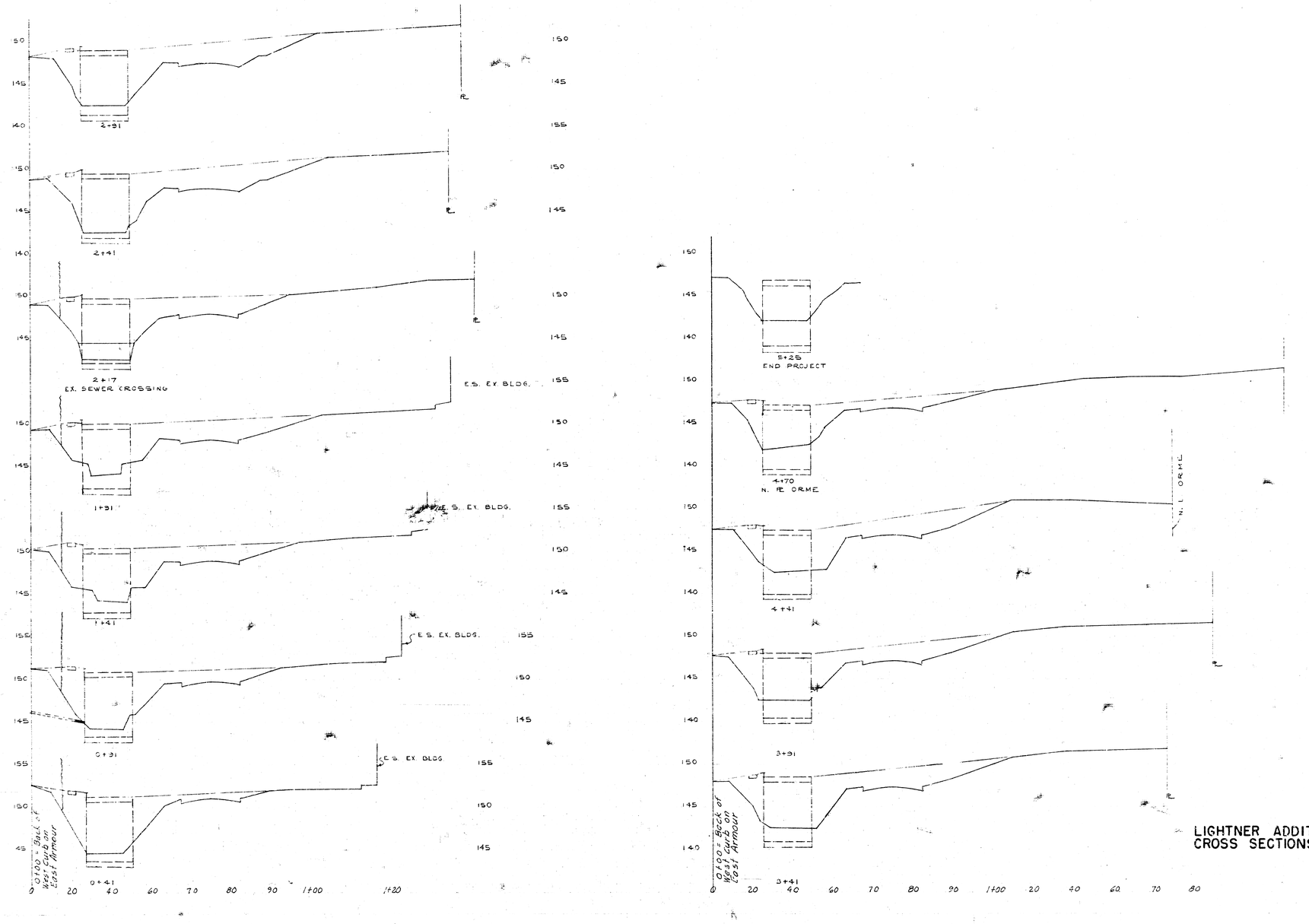


SANITARY SEWER RELOCATION
LIGHTNER ADDITION TO
WICHITA, KANSAS
AS BUILT

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

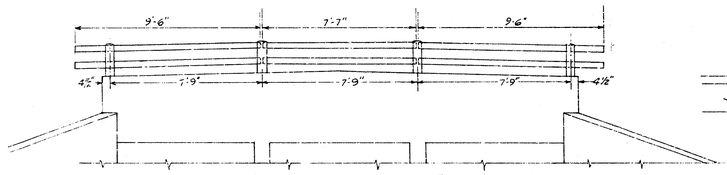




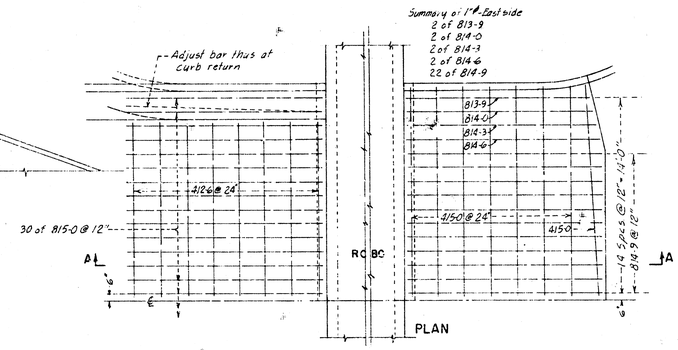


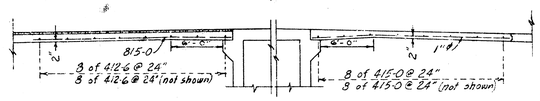
LIGHTNER ADDITION
CROSS SECTIONS

9/10



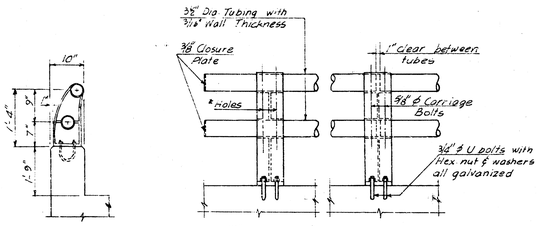
ELEVATION



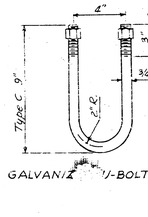


SECTION A-A

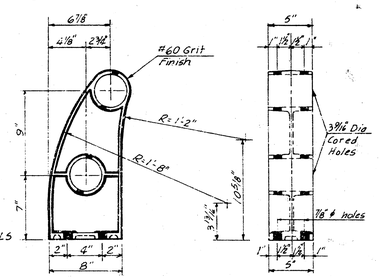
SPECIAL PAVEMENT REINFORCEMENT - ORME AT R.C.B.C.



*Holes: 11/16" Square holes in post under head and 11/16" round holes under nuts for 5/8" ϕ x 5½" carriage bolts with hex nuts



GALVANIZED U-BOLT DETAILS

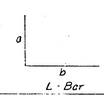


POST FOR TYPE C RAIL

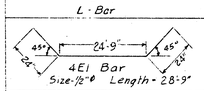
ALUMINUM HANDRAIL DETAILS TYPE C

BENT BARS

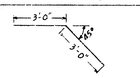
BAR	SIZE	a	b	Length
5L1	5/8" ϕ	2'-9"	3'-6"	6'-3"
5L2	5/8" ϕ	3'-3"	2'-0"	5'-3"
4L3	1/2" ϕ	2'-9"	4'-9"	7'-6"
4L4	1/2" ϕ	3'-0"	3'-0"	6'-0"
4L5	1/2" ϕ	2'-6"	2'-6"	5'-0"



L - Bar

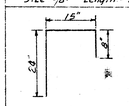


4E1 Bar
Size - 1/2" ϕ Length - 28'-9"



5F1 Bar
Size - 5/8" ϕ Length = 6'-0"

5P1 Bar
Size - 5/8" ϕ Length = 7'-6"



4U1 Bar
Size - 1/2" 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			
DRAWN			
APPR.			
TITLE			