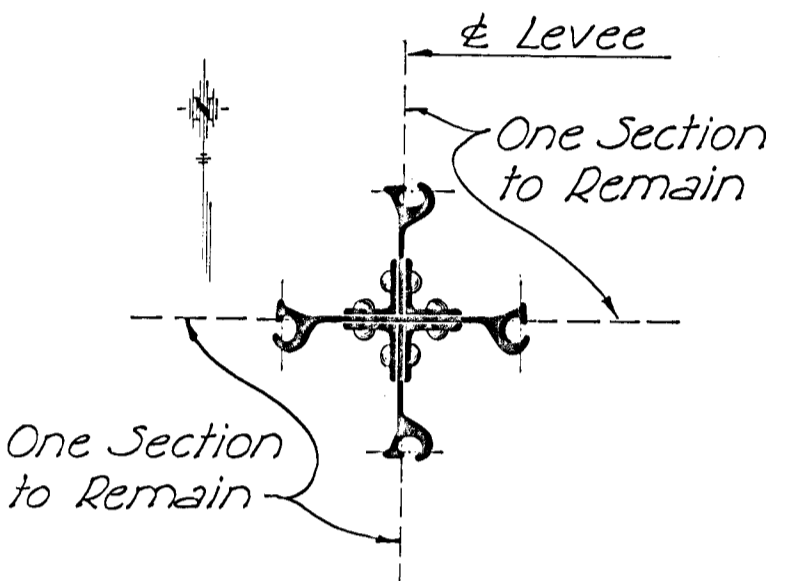
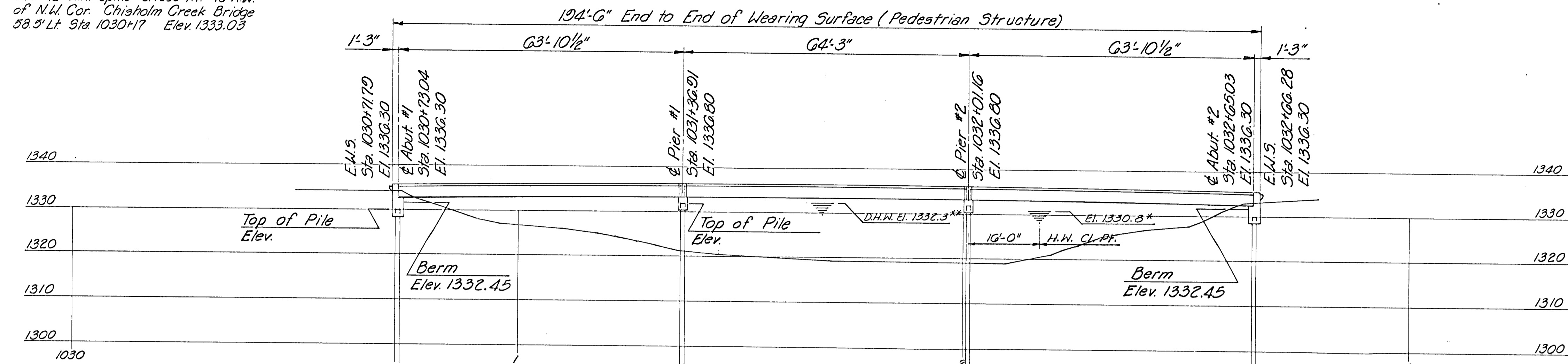


B.M. #12-R.R. Spike S. Face P.P. 15' N.W. of N.W. Cor. Chisholm Creek Bridge Sta. 1030+17 Elev. 1333.03

B.M. #13- Brass Disc N.E. Cor. W. Branch Chisholm Creek Bridge Sta. 1032+15 Elev. 1335.81

PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
G06-25, 26, W1/2, 27	1988		

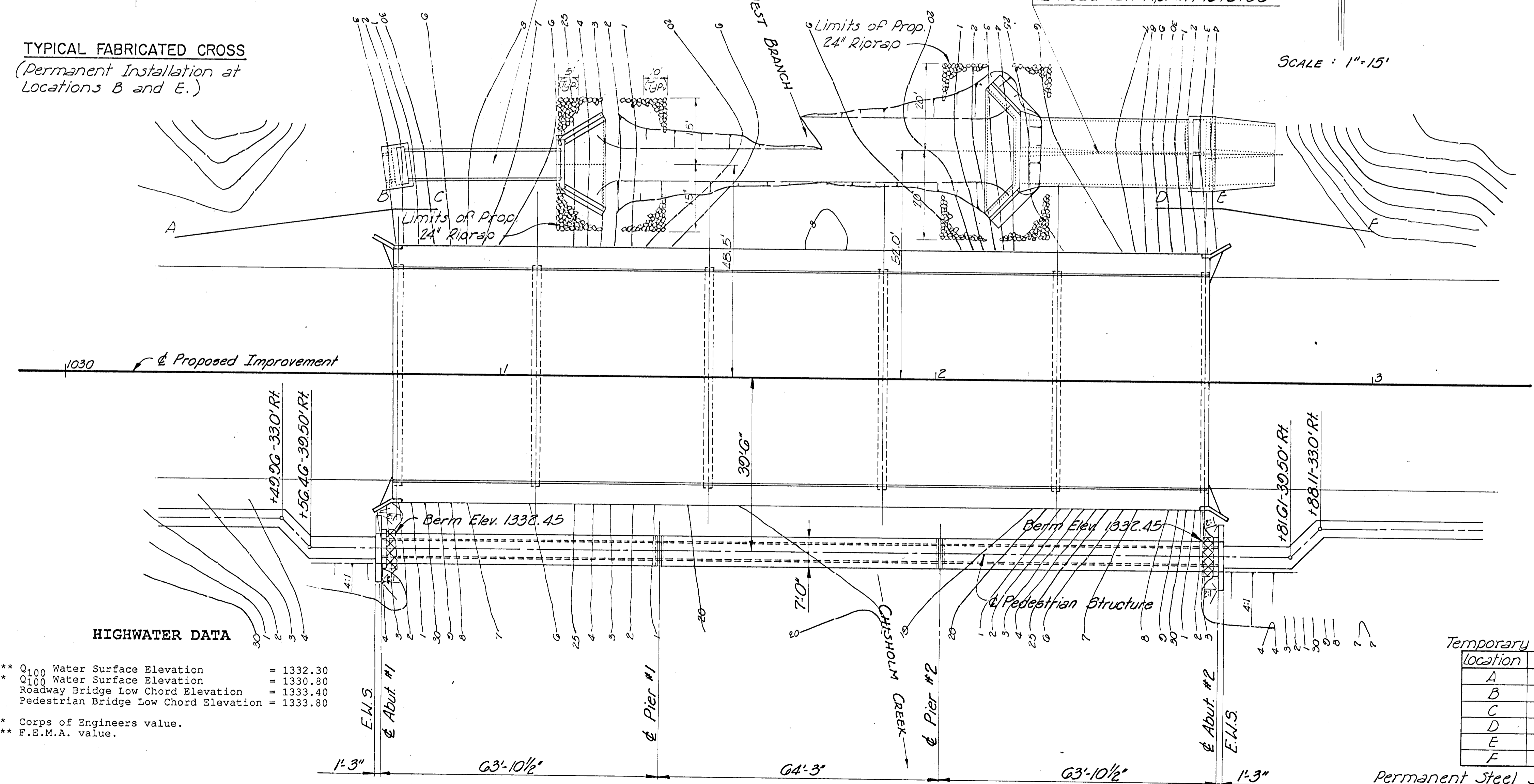


66" R.C.P. with Sluice Gate Structure
 Top 1333.75
 It. In 1319.70
 It. Out 1319.03
 and Flap Gate
 It. 72" R.C.P. 1319.00
 It. Headwall Apron 1318.50

ELEVATION
 (Sta. 1031+60.03 Construct Pedestrian Structure 63'-10 1/2", 64'-3", 63'-10 1/2" Prestressed Concrete Beam Spans Pile Bent Type Abutments & Piers 5'-0" Walkway)

2'-6" x 4' R.C.B. with Sluice Gate Structure
 Top 1334.25
 It. In 1320.03
 It. Out 1319.03
 and Flap Gate
 It. R.C.B. 1319.00
 It. Headwall Apron 1318.50

TYPICAL FABRICATED CROSS
 (Permanent Installation at Locations B and E.)



HIGHWATER DATA

** Q100 Water Surface Elevation	= 1332.30
* Q100 Water Surface Elevation	= 1330.80
Roadway Bridge Low Chord Elevation	= 1333.40
Pedestrian Bridge Low Chord Elevation	= 1333.80

* Corps of Engineers value.
 ** F.E.M.A. value.

Temporary Sheet Pile P.I. Locations

Location	Station	Offset
A	1030+25	30.5' Lt.
B	1030+75	37.5' Lt.
C	1030+85	37.5' Lt.
D	1032+50	40.0' Lt.
E	1032+65	40.0' Lt.
F	1033+00	35.0' Lt.

Permanent Steel Sheet Pile fabricated Crosses to be installed at locations B and E. See Note for Pile Requirements.

BREACH NOTES

- PROVIDE A TEMPORARY RING LEVEE (COFFERDAM) ON THE LAND SIDE OF THE EXISTING LEVEE AT THE LOCATION OF THE SUBJECT CROSSING TO THE SAME TOP ELEVATION AS THE EXISTING LEVEE. CONSTRUCT THE LEVEE OF IMPERVIOUS MATERIALS IN ACCORDANCE WITH THE PROVISIONS SPECIFIED IN PARAGRAPH 10.
- CORNERS OF RING LEVEE MAY BE ROUNDED TO FACILITATE CONSTRUCTION.
- LOCATE SOURCES FOR BORROW MATERIALS A MINIMUM OF 500 FEET FROM THE LAND SIDE OF THE EXISTING LEVEE. BORROW MATERIAL SHALL NOT BE OBTAINED FROM WITHIN THE CHANNEL.
- REMOVE EXISTING 24" x 97' R.C.P. CROSS ROAD PIPE FROM STA. 1033+05 AND TEMPORARILY RESET AT STA. 1034+10. BACKFILL RESULTING TRENCH IN ACCORDANCE WITH PROVISIONS OF PARAGRAPH 10. INSTALLATION OF NEW 24" R.C.P. AT STA. 1033+06 CANNOT BE MADE UNTIL THE LEVEE BREACH IS CLOSED.
- THE STEEL SHEET PILE WALL FROM LOCATION A TO C AND D TO F MUST BE PLACED PRIOR TO THE EXCAVATION FOR THE PERTINENT STRUCTURES. A FABRICATED STEEL SHEET PILE CROSS MUST BE INCORPORATED INTO THE SHEET PILE WALL AT THE CENTERLINE OF THE PERMANENT LEVEE FOR A FUTURE USE. THE STEEL SHEET PILE DESIGN, PLACEMENT PROCEDURE, LOCATION AND REMOVAL PROCEDURE MUST BE APPROVED BY THE SEDGWICK COUNTY BUREAU OF PUBLIC SERVICES.
- WHEN THE TEMPORARY RING LEVEE IS COMPLETE, EXCAVATE THE EXISTING LEVEE USING 1 VERTICAL ON 3 HORIZONTAL CUT SLOPES.
- BACKFILL OF TRENCH SHALL NOT BE PLACED AGAINST CONCRETE BEFORE EXPIRATION OF 14 DAYS AFTER PLACING THE CAST-IN-PLACE CONCRETE THROUGH THE LEVEE AREAS. USE IMPERVIOUS SOILS (CL OR CH) THROUGH THE LEVEE AREAS. BACKFILLING AND COMPACTION ALONG THE SIDES OF THE STRUCTURE SHALL BE BY MEANS OF HAND TAMPING OR MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS. SEE TYPICAL SECTION, SHEET NO. 4) COMPACTION SHALL BE TO A DENSITY AS PER PARAGRAPH 10.
- UPON COMPLETION OF THE HAND BACKFILL AND BEFORE PLACING LEVEE FILL, THE ENTIRE FOUNDATION AREA TO BE OCCUPIED BY THE LEVEE FILL SHALL BE SCARIFIED, PLOWED, AND/OR HARROWED TO A DEPTH OF 6 INCHES AND THEN COMPACTED BY AT LEAST 16 COMPLETE PASSES OF THE TAMPING ROLLER.
- THE STEEL SHEET PILE WALL MAY BE REMOVED AFTER A PERMANENT WALL RADIATING FROM THE FABRICATED CROSS HAS BEEN PLACED IN ALL FOUR DIRECTIONS FOR ONE SECTION. THE REMOVED SHEET PILE TO BE REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR. ALL PILE TO REMAIN IN LEVEE MUST BE CUTOFF 2 BELOW THE TOP OF LEVEE ELEVATION PRIOR TO THE FINAL COMPACTION OPERATION.
- ACCOMPLISH LEVEE REPLACEMENTS BY PLACING FILL IN 6-INCH LIFTS AND COMPACTING BY NOT LESS THAN EIGHT COMPLETE PASSES OF A TAMPING ROLLER. COMPLETED EMBANKMENT SHALL MEET THE REQUIREMENTS OF TYPE AA, (MR-3-3). ALL LEVEE FILL SHALL CONSIST OF IMPERVIOUS MATERIALS (CL- CLAYS OF LOW TO MEDIUM PLASTICITY, SILTY, SANDY OR GRAVEL) (CH- INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS).
- DETERMINE THE IN-PLACE MOISTURE CONTENT AND DENSITY OF THE LEVEE FILL ON A FREQUENCY OF ABOUT ONE SAMPLE FOR EACH 2500 CUBIC YARDS OF BACKFILL PLACED.
- WHEN THE BREACHED LEVEE HAS BEEN RECONSTRUCTED TO ITS ORIGINAL GRADE AND THE FLAP GATE AND SLUICE GATE ARE IN PLACE AND FUNCTIONAL, REMOVE THE TEMPORARY RING LEVEE AND DRESS, SEED, FERTILIZE AND MULCH THE SURFACE AREAS OF THE PLUGGED SECTION AND OUTLET CHANNEL AS SPECIFIED ON SHEET NO. 1.
- CONTRACTOR SHALL NOTIFY MR. BOB JENNINGS, WICHITA-VALLEY CENTER FLOOD CONTROL SUPERVISOR, AT 268-4095, AT LEAST THREE WORKING DAYS BEFORE STARTING THIS PROJECT TO DISCUSS (a.) EXCAVATION IN OR NEAR A LEVEE (b.) APPROPRIATE PLACEMENT OF RIPRAP OR GRAVEL TO FACILITATE FUTURE MAINTENANCE (c.) PROVIDE A TIMETABLE FOR THE PROJECT AND (d.) PROVIDE 24-HOUR EMERGENCY PHONE NUMBERS OF CONTACT PERSONNEL.
- THE CONTRACTOR SHALL STOCKPILE AN ADEQUATE AMOUNT OF EARTHWORK MATERIAL AND PROVIDE NECESSARY EQUIPMENT TO PROVIDE A COMPLETE LEVEE CLOSURE ALONG THE NORTH EDGE OF 53RD STREET NORTH. THE CONTRACTOR SHALL BE PREPARED ON A 24 HOUR BASIS TO PLACE SAID MATERIAL UPON REQUEST BY THE FLOOD CONTROL OFFICE.
- EXCEPT WHERE A SEPARATE BID ITEM IS SHOWN ON THE PLANS FOR A SPECIFIC ITEM OF WORK, THE RING LEVEE CONSTRUCTION, TEMPORARY DITCH CONSTRUCTION, LEVEE REMOVAL AND REPLACEMENT, INSTALLATION AND REMOVAL OF STEEL SHEET PILES, PLACEMENT AND REMOVAL OF EMERGENCY CLOSURE MATERIAL, ERADICATION OF RING LEVEE AND TEMPORARY DITCH (ES), AND EXCAVATION OF OUTLET CHANNEL (S) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH FOR "LEVEE BREACH". SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION OF ANY MATERIALS ENCOUNTERED (INCLUDING WATER), COMPACTION OF EARTHWORK, WATER, CONTRACTOR FURNISHED EXCAVATION (IF REQUIRED), STOCKPILING AND REMOVAL OF EMERGENCY EARTHWORK MATERIAL, AND FOR EQUIPMENT, LABOR, MATERIALS, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

BR. NO. 606-26-3061 STA. 1031+69.03
 53RD STREET NORTH OVER WEST BRANCH CHISHOLM CREEK
CONSTRUCTION LAYOUT
 SEDGWICK COUNTY PROJECT NO. 606-25, 26, W1/2 27
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS WICHITA, KANSAS

Designed by	R.A.S.	Checked by	
Drawn by	V.J.K.	Date	August, 1987

Job No. 84451-1