

CONSTRUCTION PLANS FOR DRAINAGE SYSTEM IMPROVEMENTS TO SERVE MISSION — CENTRAL TO ROCKWOOD THE CITY OF WICHITA,

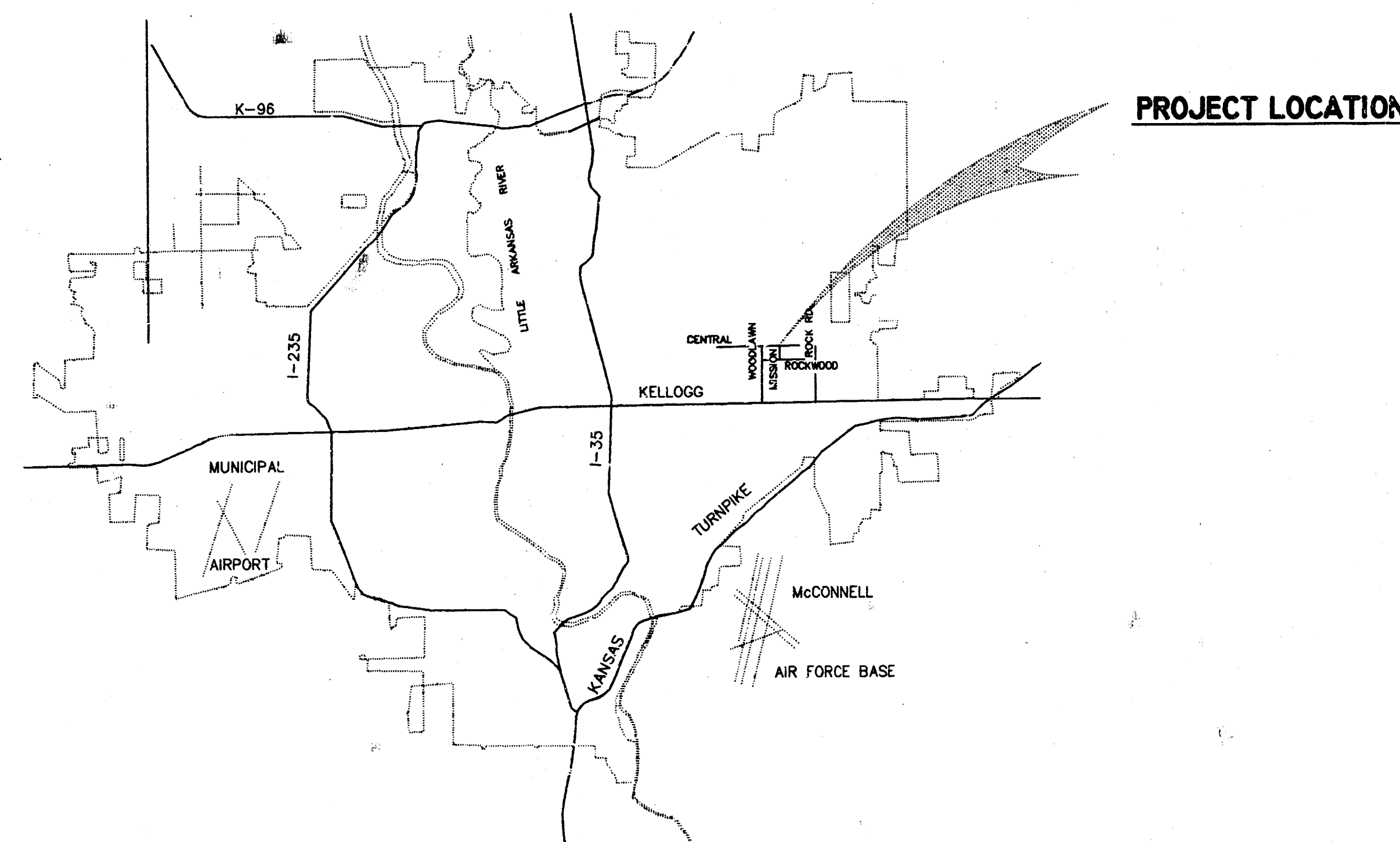
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER

SYMBOL LEGEND

WM	WATER METER	W	WATER LINE
GM	GAS METER	G	GAS LINE
WV	WATER VALVE	SS	SANITARY SEWER
PP	POWER POLE	E	ELECTRIC
+	FIRE HYDRANT	GS	GAS SERVICE
		T	TREE

BENCH MARKS

- B.M. NORTH BOLT OF FIRE HYDRANT, NORTHEAST SIDE OF ROCKWOOD AND MISSION INTERSECTION.
ELEVATION 176.85
- B.M. CHISELED SQUARE ON SIDEWALK SOUTHWEST CORNER OF CENTRAL AND MISSION.
ELEVATION 180.26
- B.M. CHISELED SQUARE ON NORTHWEST CURB AT 355 MISSION.
ELEVATION 177.07



DRAWING INDEX

- | SHEET | TITLE |
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STA. 9+99 TO STA. 12+46.55 AND GENERAL NOTES |
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MISSION, ROCKWOOD TO CENTRAL AVENUE
FROM STA. 12+46.55 TO STA. 22+34.12 |
| 4. | DETAIL STANDARD TYPE I CURB INLET
(6" :: 5'-0") |
| 5. | STANDARD SHALLOW MANHOLES |

PHASE III

INDEX CODE - 133108

CITY OF WICHITA PROJECT NO. 468 - 82369

APRIL, 1994

PLANS PREPARED BY

CASTLE & ASSOCIATES

WICHITA, KANSAS

Robert L. Castle
10/12/94

CITY OF WICHITA DRAINAGE IMPROVEMENTS			
MAP AND INDEX			
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG DR CH APP	DWG FILE NO. 9324F - D - 70,015	
		SHEET NO 1 OF 5	
DATE	APRIL	1994	REV.

AutoCAD Drawing File Name 9324E-1.DWG
Archive Computer Disk # AC-DWG-22
Plot Scale 1=300

AutoCAD Drawing File Name 9234-3 .DWG
Archive Computer Disk # AC-DWG-19
Plot Scale 1"=20'

GENERAL NOTES

1. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF TWENTY-FOUR (24) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

CABLEVISION	316-262-4270 OR 263-2061
ARKLA GAS	316-942-8350 OR 263-8161
CITY OF WICHITA	
WATER	316-268-4908
SANITARY & STORM SEWER	316-268-4210
KANSAS ONE-CALL	1-800-344-7233 OR 687-2470
KG&E, THE ELECTRIC CO.	316-264-1141
KG&E GAS SERVICE	316-263-7511
SOUTHWESTERN BELL TELEPHONE	1-571-2611

2. THE CONTRACTOR SHALL NOTIFY PIPELINE COMPANIES AT LEAST 24 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO PIPELINES.
3. INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA IS NOT TO BE CARRIED THROUGH CONSTRUCTION. LOCAL BUSINESS OR APARTMENT TRAFFIC GENERATED WITHIN THE PROJECT AREA IS TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS.
4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
5. A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF EXISTING SURFACE COURSES OR ONE-FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE COURSE OR PAVEMENT IS REQUIRED, EXCEPT WHEN SAW CUTS ARE WITHIN THREE (3) FEET OF AN EXISTING JOINT THE REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.

CURB AND GUTTER REMOVAL FOR INLETS SHALL BE SAWED AT A MINIMUM OF TWO (2) FEET SIX (6) INCHES FROM THE BACK OF CURB AND PARALLEL WITH IT AND A MINIMUM OF FOUR (4) FEET, SIX (6) INCHES TO THE LEFT AND RIGHT DIRECTIONS FROM THE CENTER LINE OF THE INLET PERPENDICULAR TO THE BACK OF CURB.

6. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

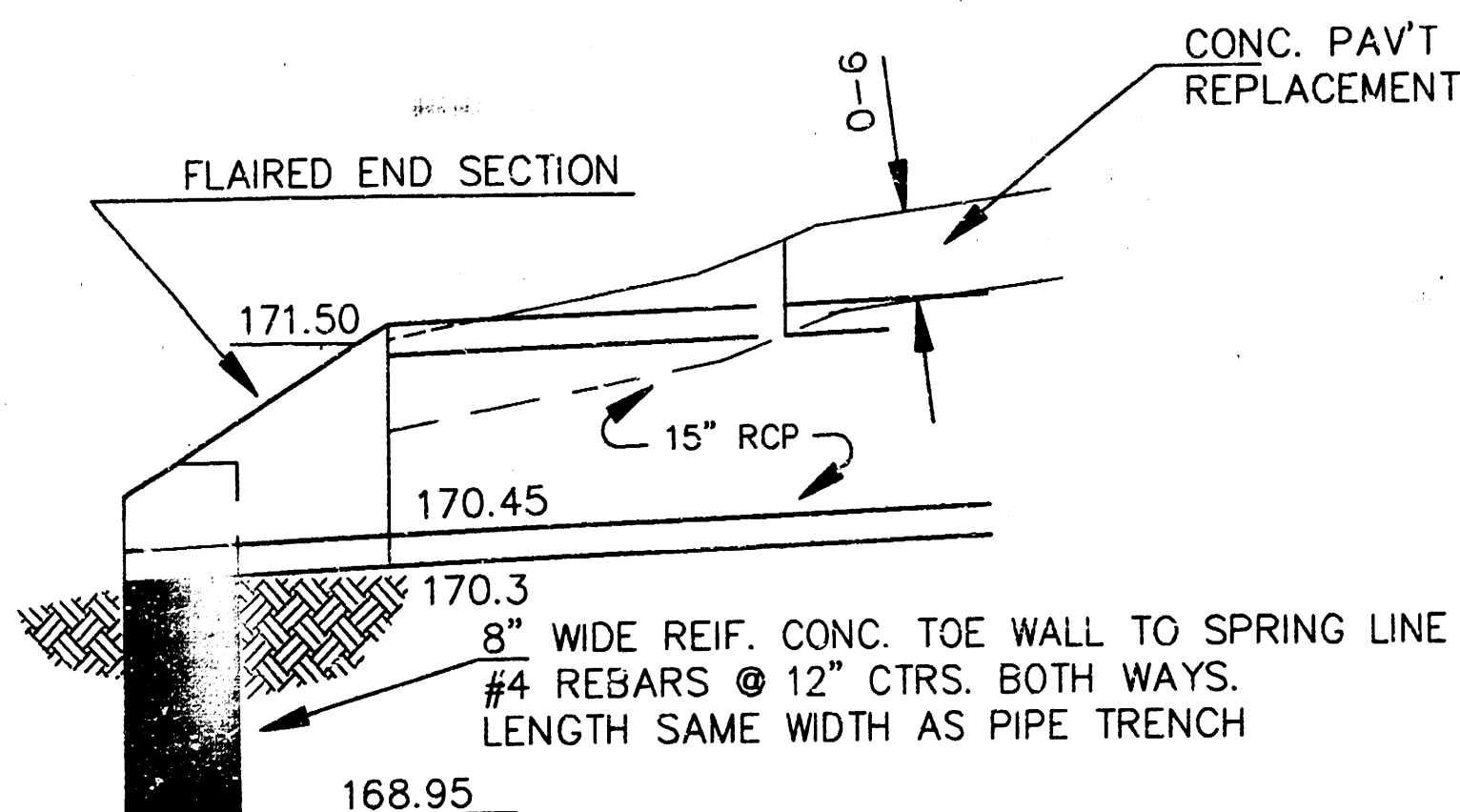
7. THE ENGINEER SHALL TAKE FIELD TIES TO ALL QUARTER SECTION CORNERS. THE CONTRACTOR SHALL SET A CITY SURVEY MONUMENT IN THE REQUIRED LOCATION WHERE SUCH QUARTER SECTION CORNERS FALL WITHIN THE LIMITS OF PAVEMENT CONSTRUCTION. SURVEY MONUMENTS WILL BE FURNISHED BY THE CITY. THE ENGINEER WILL ACCURATELY LOCATE AND INSTALL THE IRON AT THE QUARTER SECTION CORNER. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK IN THE CONTRACT.

8. PROPERTIES WITHIN THE PROJECT LIMITS MAY BE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER AT THE TIME OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH NEW CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED AS SUBSIDIARY TO THE CONTRACT PAY ITEMS OF WORK.

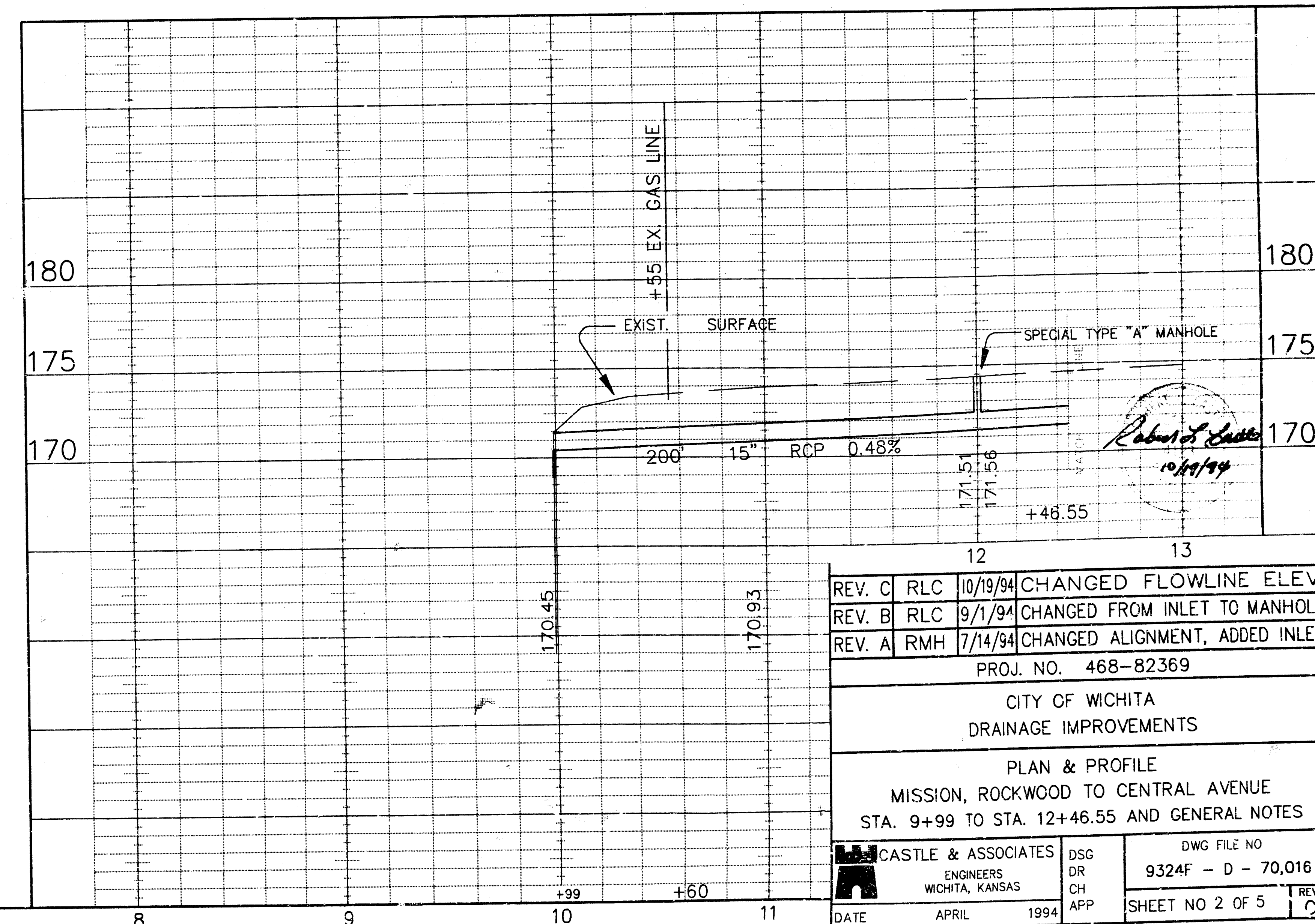
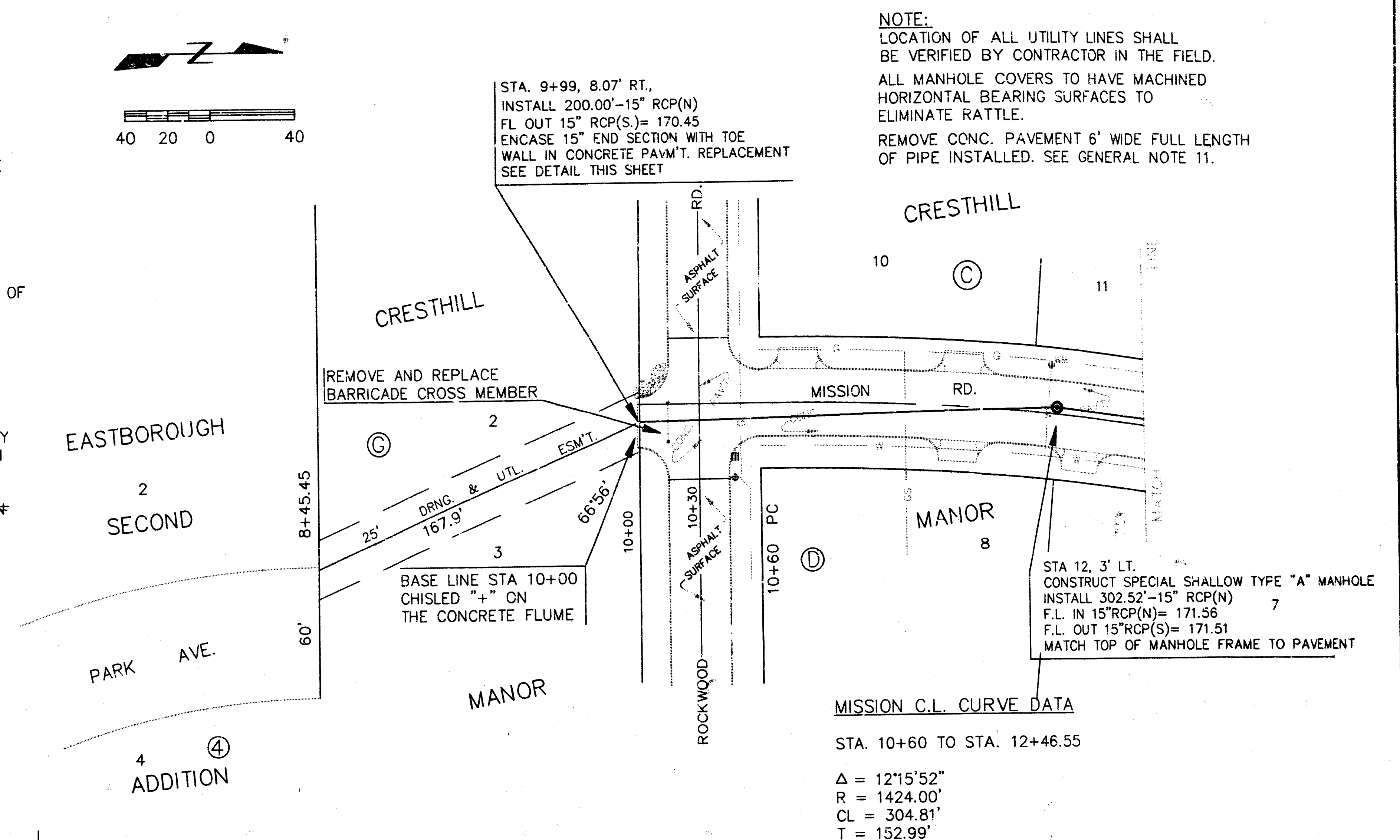
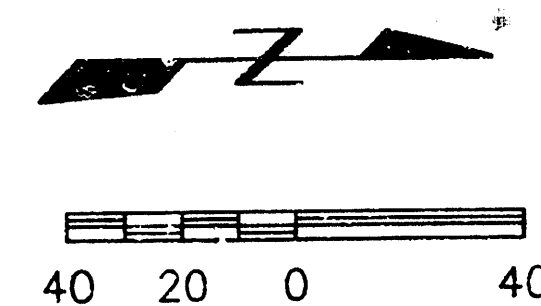
9. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

11. ALL COSTS FOR REMOVAL OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR CLEARING RIGHT-OF-WAY AND SITE PREPARATION. ALL COSTS FOR REPLACEMENT OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR SITE RESTORATION. REMOVAL OF EXISTING PAVEMENT AND/OR REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS. MINIMUM LIMITS OF SUCH PAVEMENT REMOVAL AND REPLACEMENT SHALL BE ONE FOOT BEYOND THE LIMITS OF THE EXCAVATION MADE FOR THE SEWER OR THE STRUCTURE, EXCEPT WHEN SUCH LINES OF REMOVAL ARE WITHIN THREE (3) FEET OF AN EXISTING JOINT THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT.



FLAIED END SECTION DETAILS
@ STA. 9+95
N.T.S.



REV. C	RLC	10/19/94	CHANGED FLOWLINE ELEV.
REV. B	RLC	9/1/94	CHANGED FROM INLET TO MANHOLE
REV. A	RMH	7/14/94	CHANGED ALIGNMENT, ADDED INLET

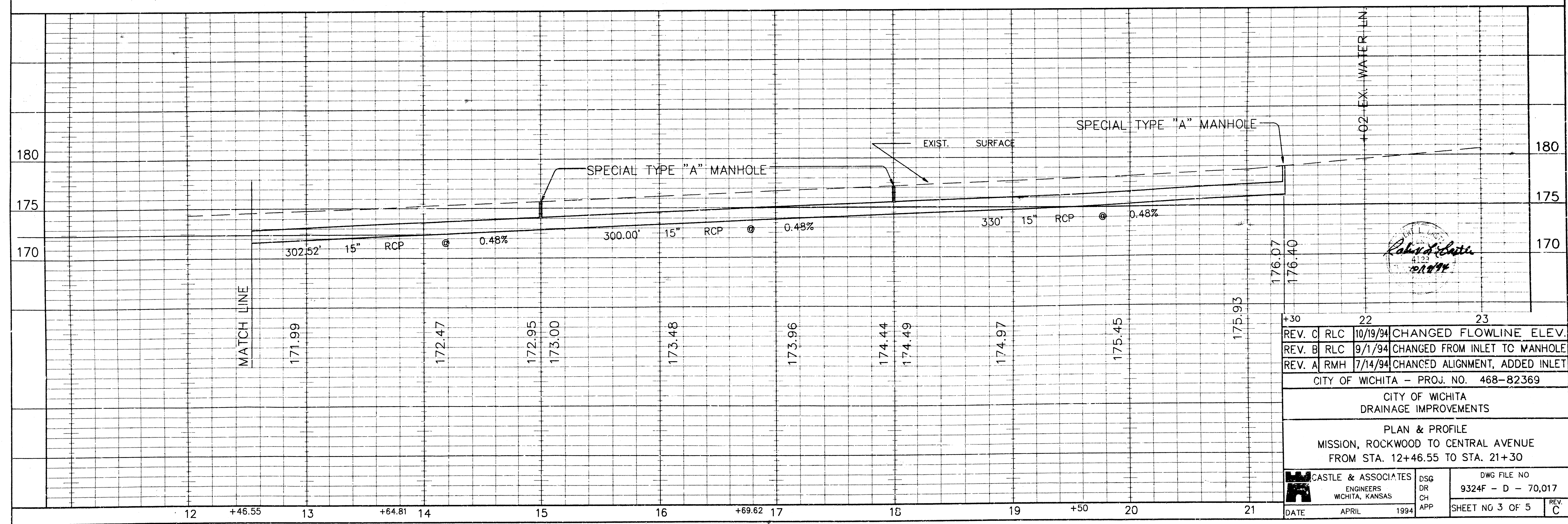
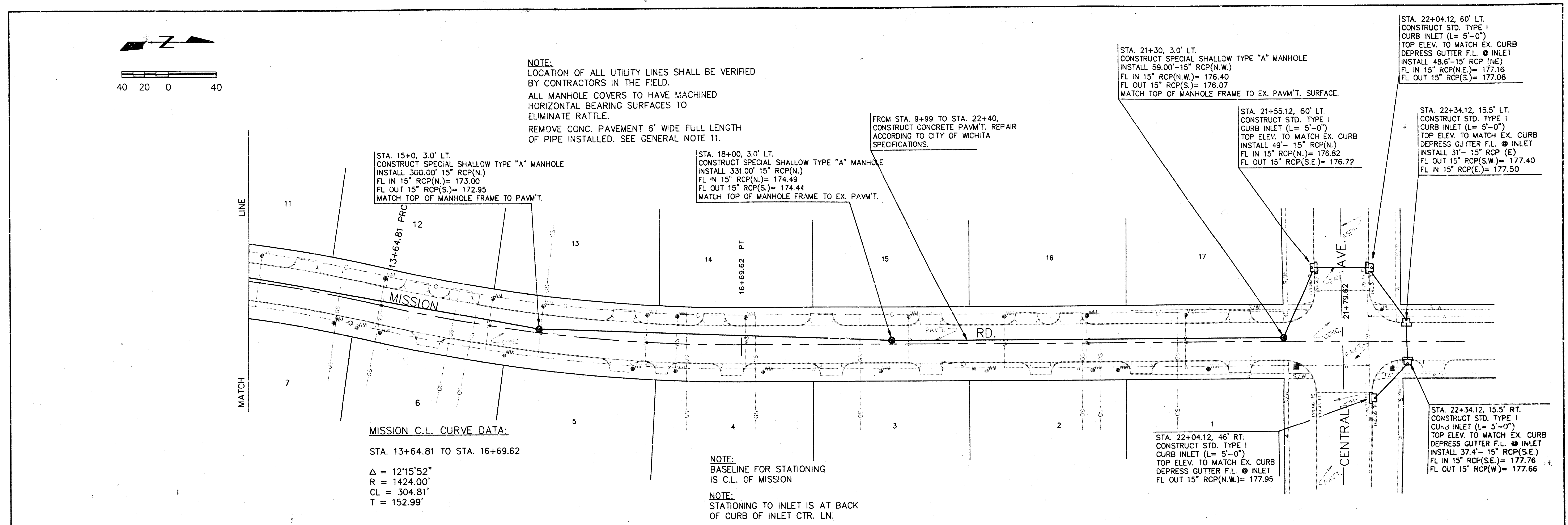
PROJ. NO. 468-82369

CITY OF WICHITA
DRAINAGE IMPROVEMENTS

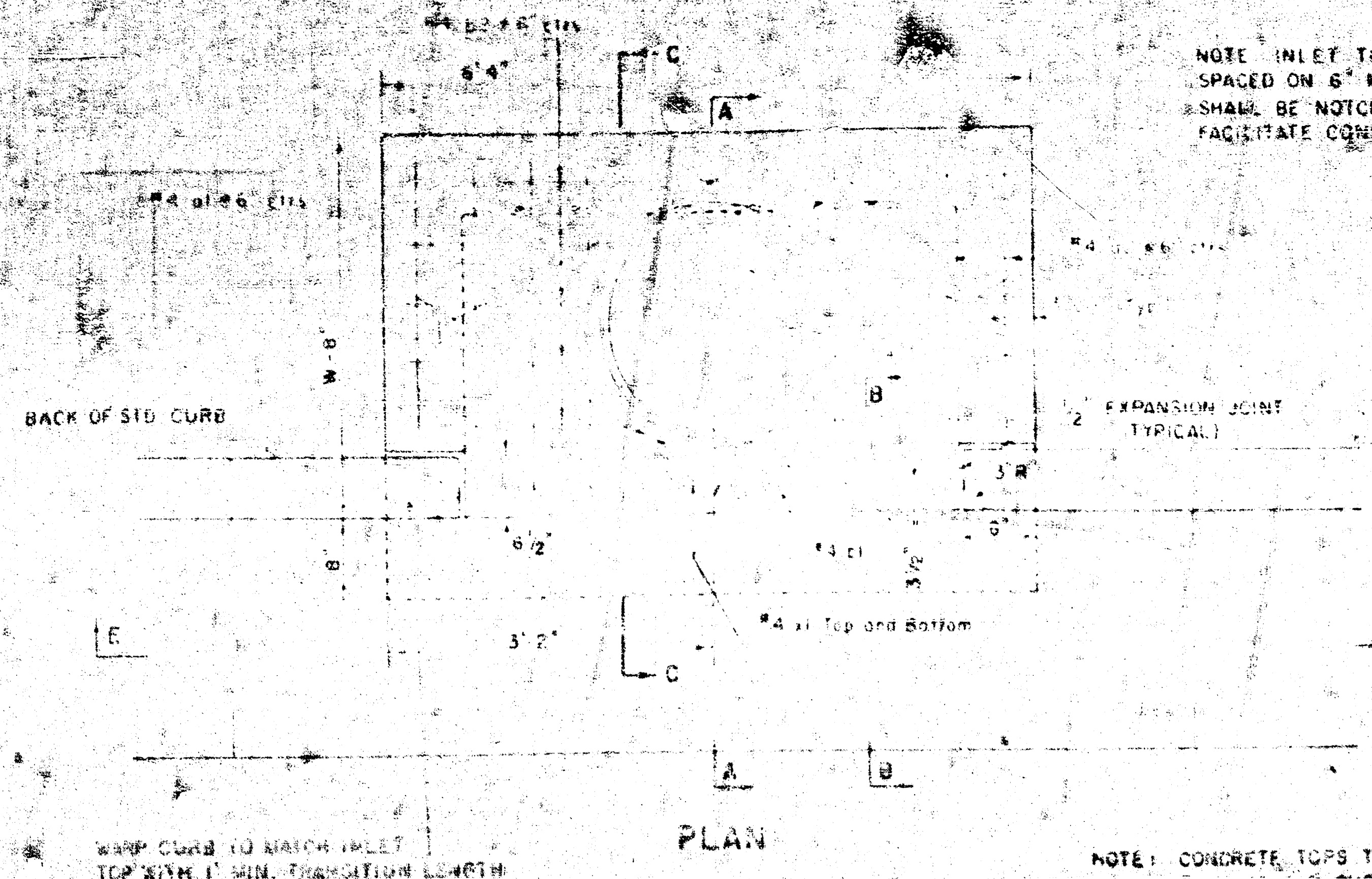
PLAN & PROFILE
MISSION, ROCKWOOD TO CENTRAL AVENUE
STA. 9+99 TO STA. 12+46.55 AND GENERAL NOTES

CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG DR CH APP	DWG FILE NO. 9324F - D - 70,016
	DATE APRIL 1994	SHEET NO 2 OF 5

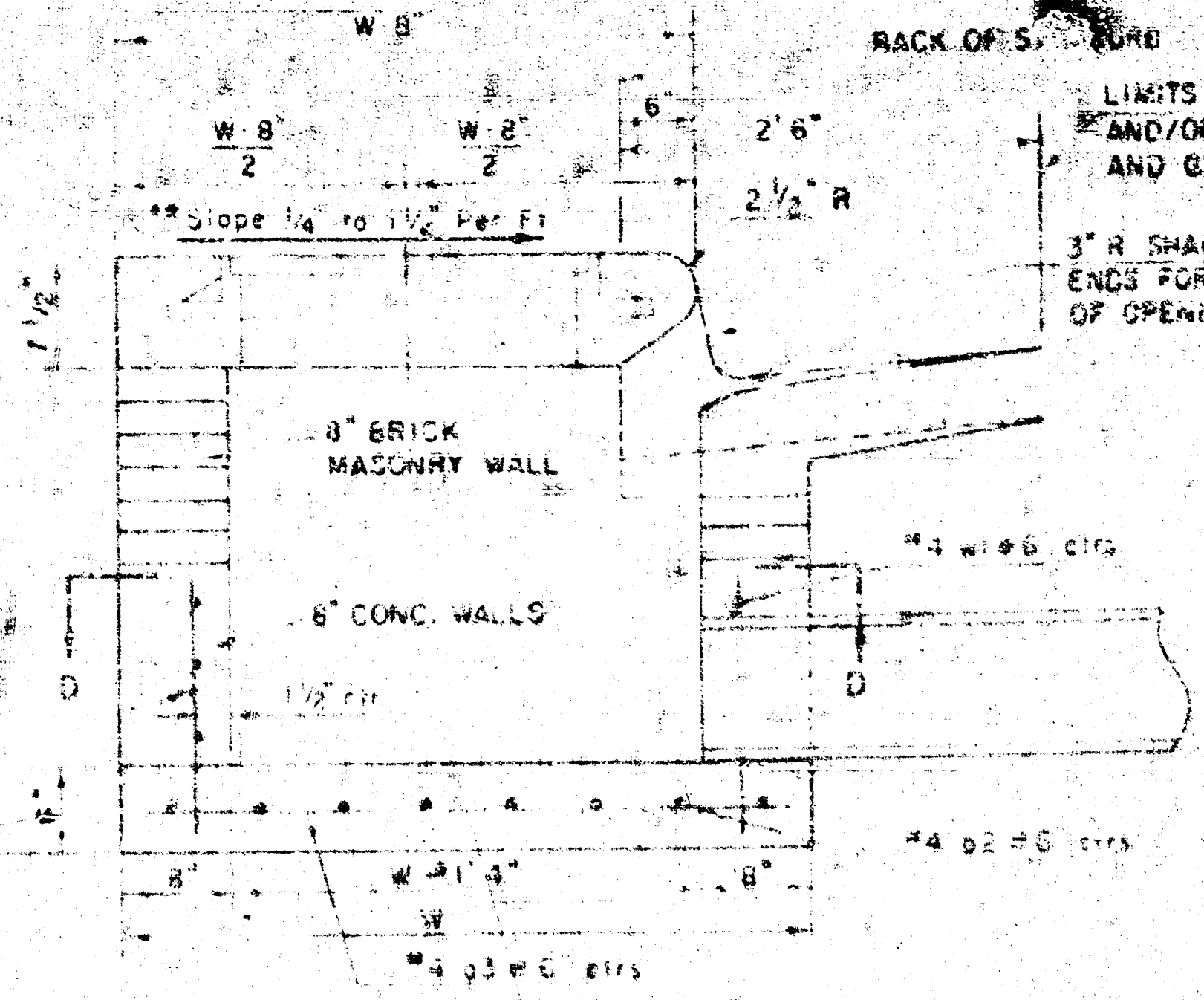
AutoCAD Drawing File Name 9234-4 .DWG
 Archive Computer Disk # AC-DWG-19
 Plot Scale 1"=20'



REV. C	RLC	10/19/94	CHANGED FLOWLINE ELEV.
REV. B	RLC	9/1/94	CHANGED FROM INLET TO MANHOLE
REV. A	RMH	7/14/94	CHANGED ALIGNMENT, ADDED INLET
CITY OF WICHITA - PROJ. NO. 468-82369			
CITY OF WICHITA DRAINAGE IMPROVEMENTS			
PLAN & PROFILE MISSION, ROCKWOOD TO CENTRAL AVENUE FROM STA. 12+46.55 TO STA. 21+30			
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS		DSG DR CH APP	DWG FILE NO 9324F - D - 70,017
DATE	APRIL	1994	SHEET NO 3 OF 5
			REV. C



NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



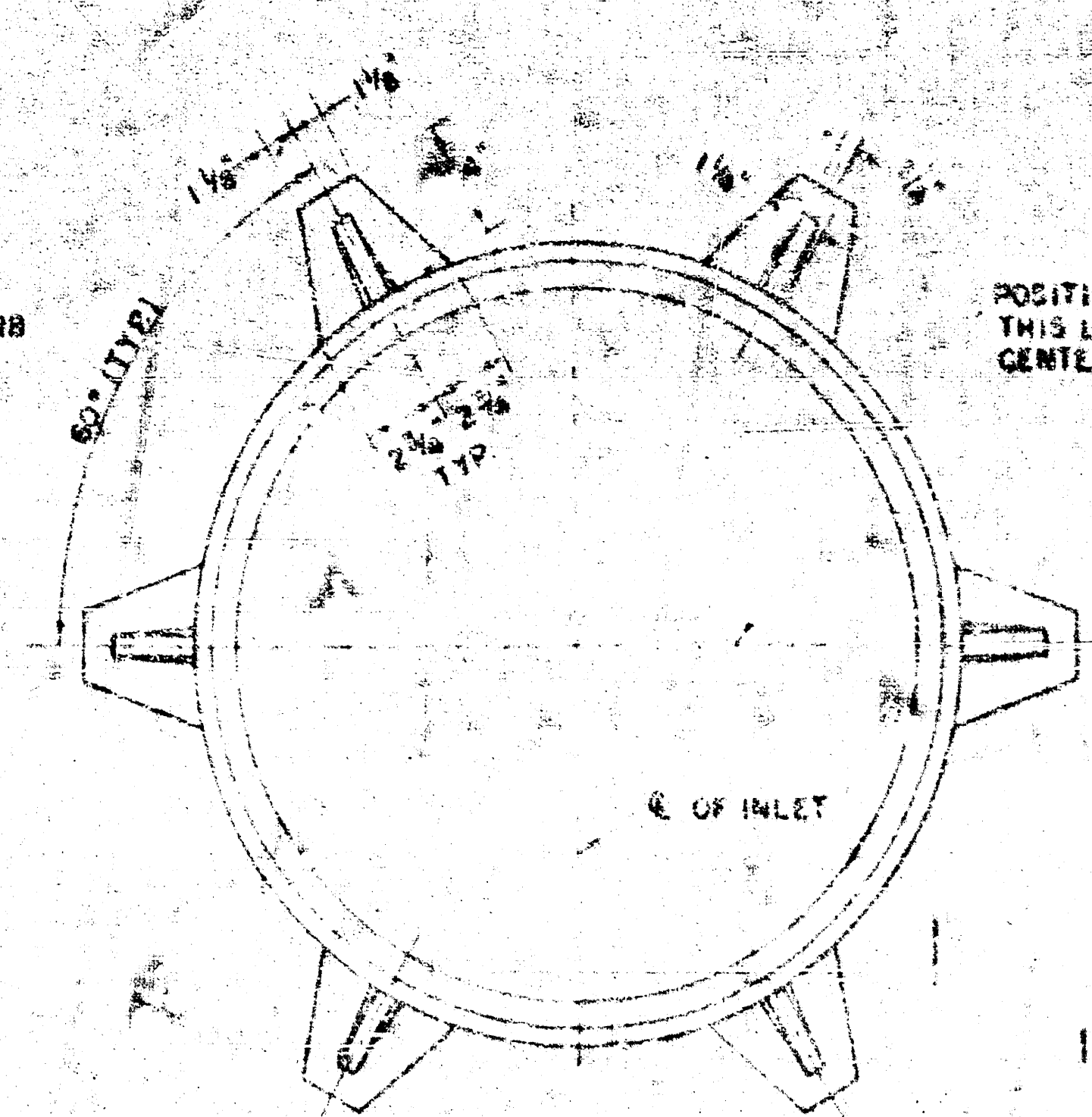
SECTION A-A

NOTE: Slope of Inlet Top to match sidewalk or parking slopes within limits indicated.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6' 4" AND H = 7' 0" OR LESS.

INLET INVERT SHALL BE SHAPED WITH A SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

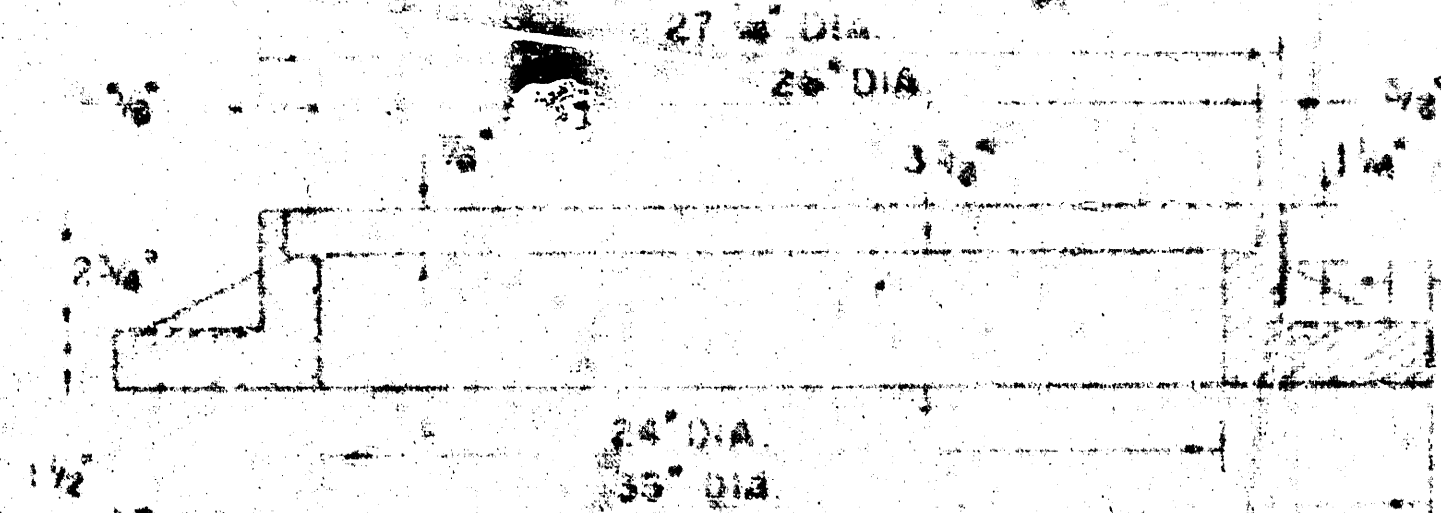
THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



POSITION RING SUCH THAT THIS LINE IS PARALLEL WITH CENTERLINE OF PAVEMENT.

INLET FRAME

WEIGHT = 180 LBS.



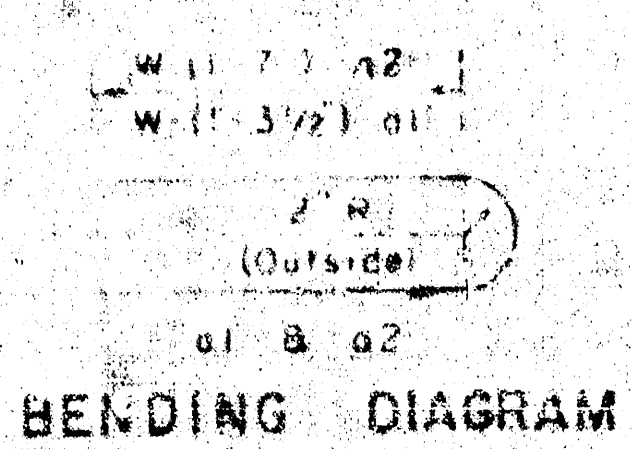
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

PRECAST SLAB AND FLOOR REINFORCING

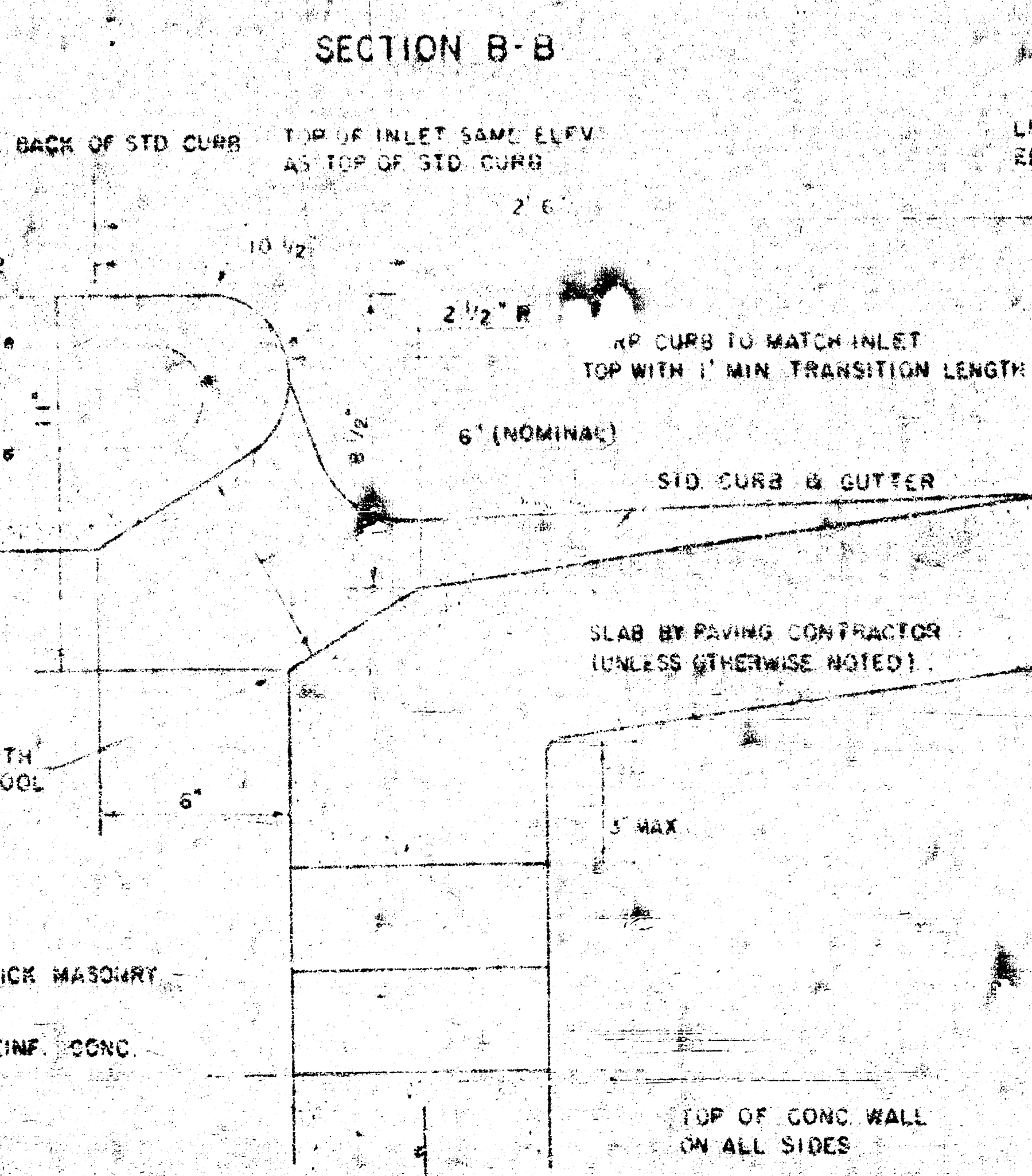
W	L	THICKNESS	NO. LONGITUDINAL	NO. TRANSVERSE	NO. TOP	NO. BOTTOM	NO. CORNER	NO. MIDSPAN	NO. TOTAL
4' 0"	4' 0"	6"	12	12	12	12	12	12	48
4' 0"	6' 0"	6"	12	18	12	12	12	12	72
4' 0"	8' 0"	6"	12	24	12	12	12	12	96
6' 0"	4' 0"	6"	18	12	12	12	12	12	72
6' 0"	6' 0"	6"	18	18	12	12	12	12	108
6' 0"	8' 0"	6"	18	24	12	12	12	12	144

STANDARD CURB INLET PRECAST TOPS

W	L	THICKNESS	NO. LONGITUDINAL	NO. TRANSVERSE	NO. TOP	NO. BOTTOM	NO. CORNER	NO. MIDSPAN	NO. TOTAL
4' 0"	4' 0"	6"	12	12	12	12	12	12	48
4' 0"	6' 0"	6"	12	18	12	12	12	12	72
4' 0"	8' 0"	6"	12	24	12	12	12	12	96
6' 0"	4' 0"	6"	18	12	12	12	12	12	72
6' 0"	6' 0"	6"	18	18	12	12	12	12	108
6' 0"	8' 0"	6"	18	24	12	12	12	12	144

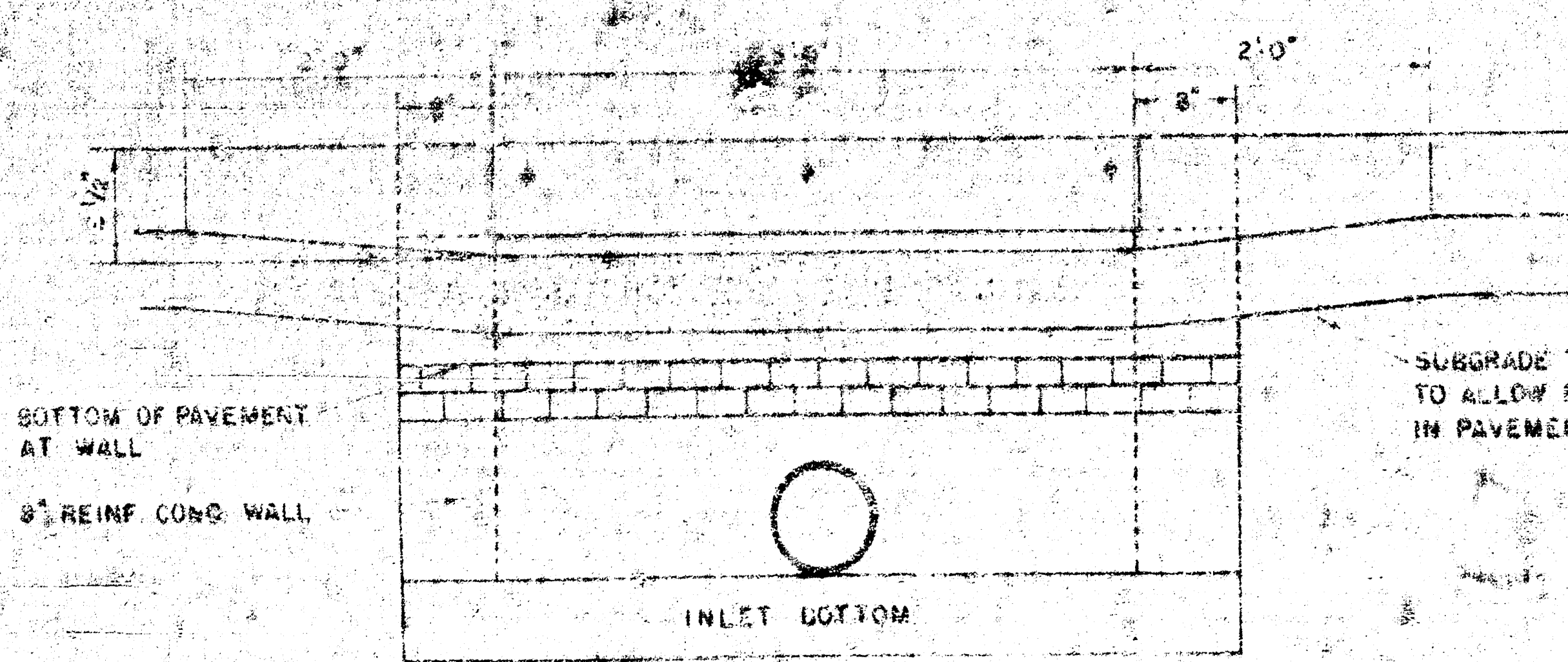


BENDING DIAGRAM



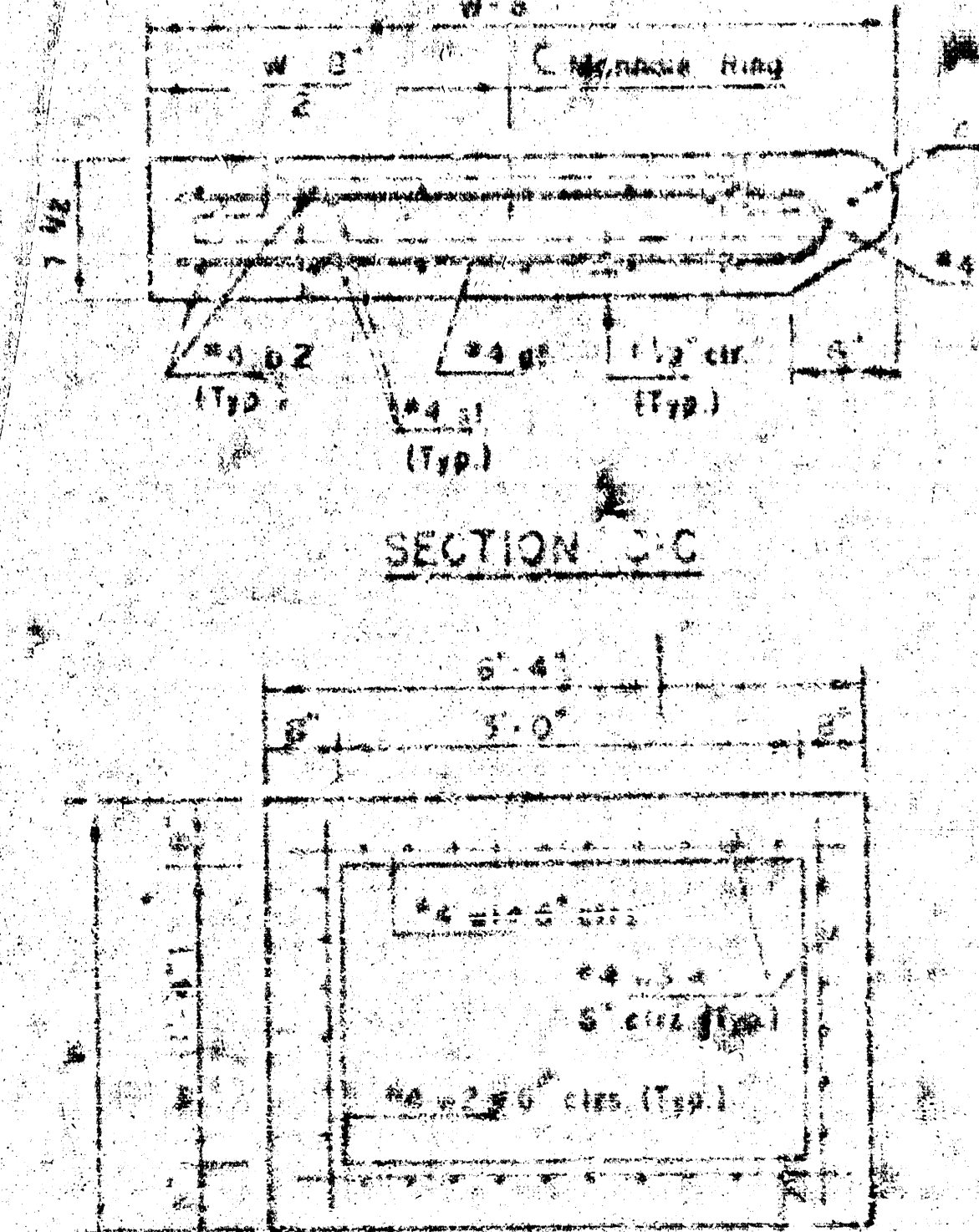
SECTION B-B

LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER



SECTION E-E

SUBGRADE TO BE SHAPED TO ALLOW FOR DEPRESSION IN PAVEMENT.



SECTION C-C

SECTION D-D

DETAIL STANDARD TYPE I CURB INLET

CITY OF WICHITA, KANSAS

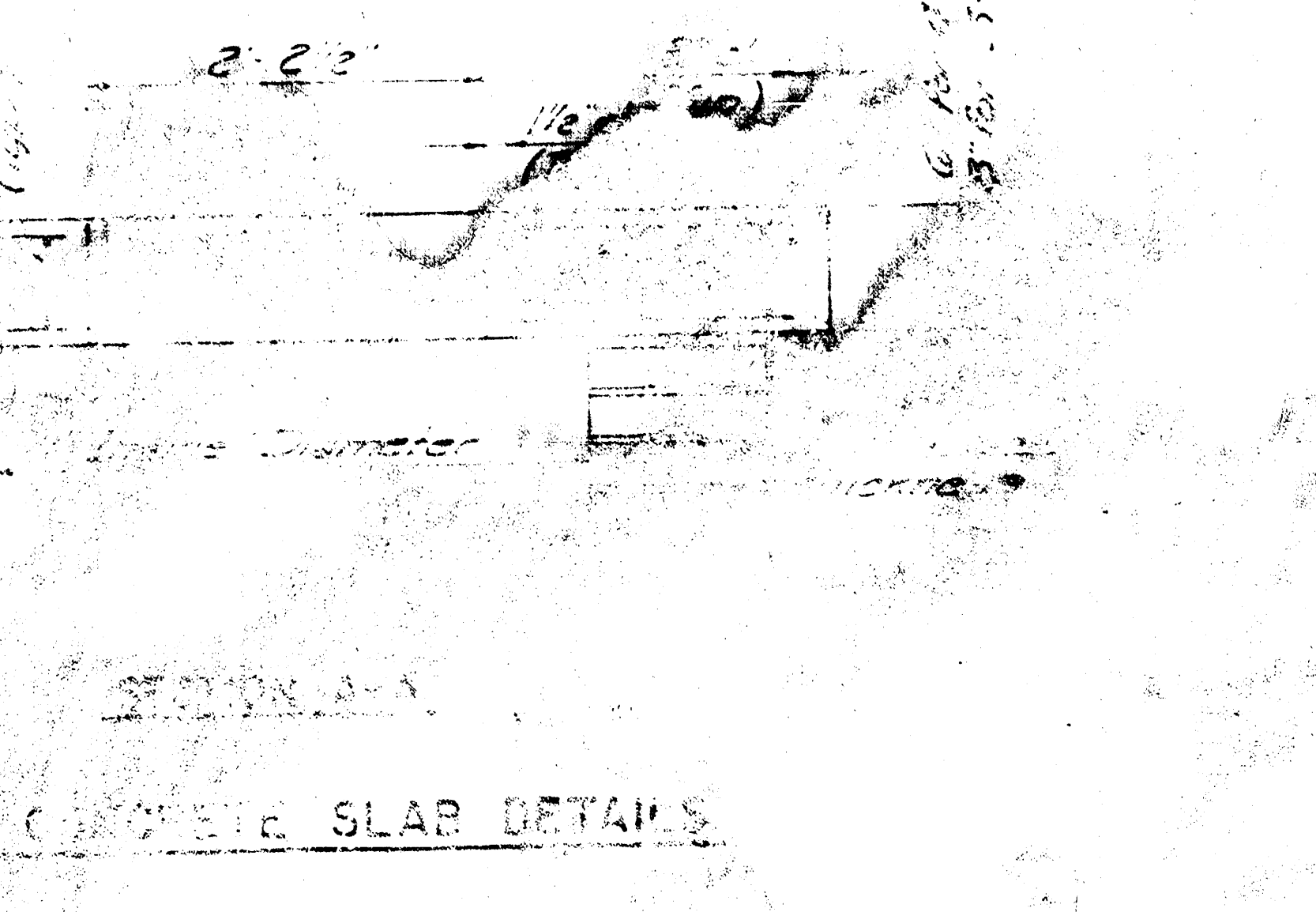
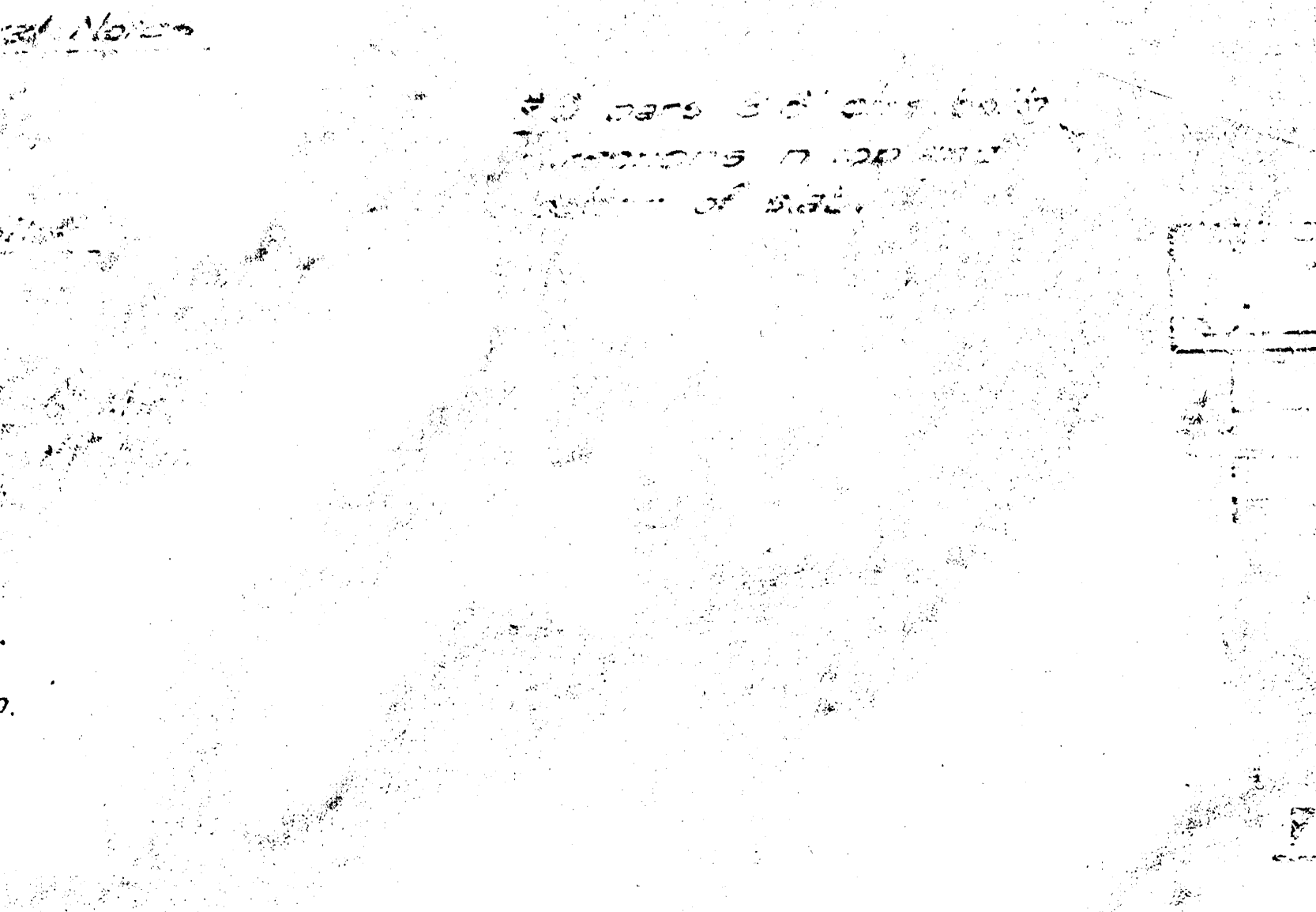
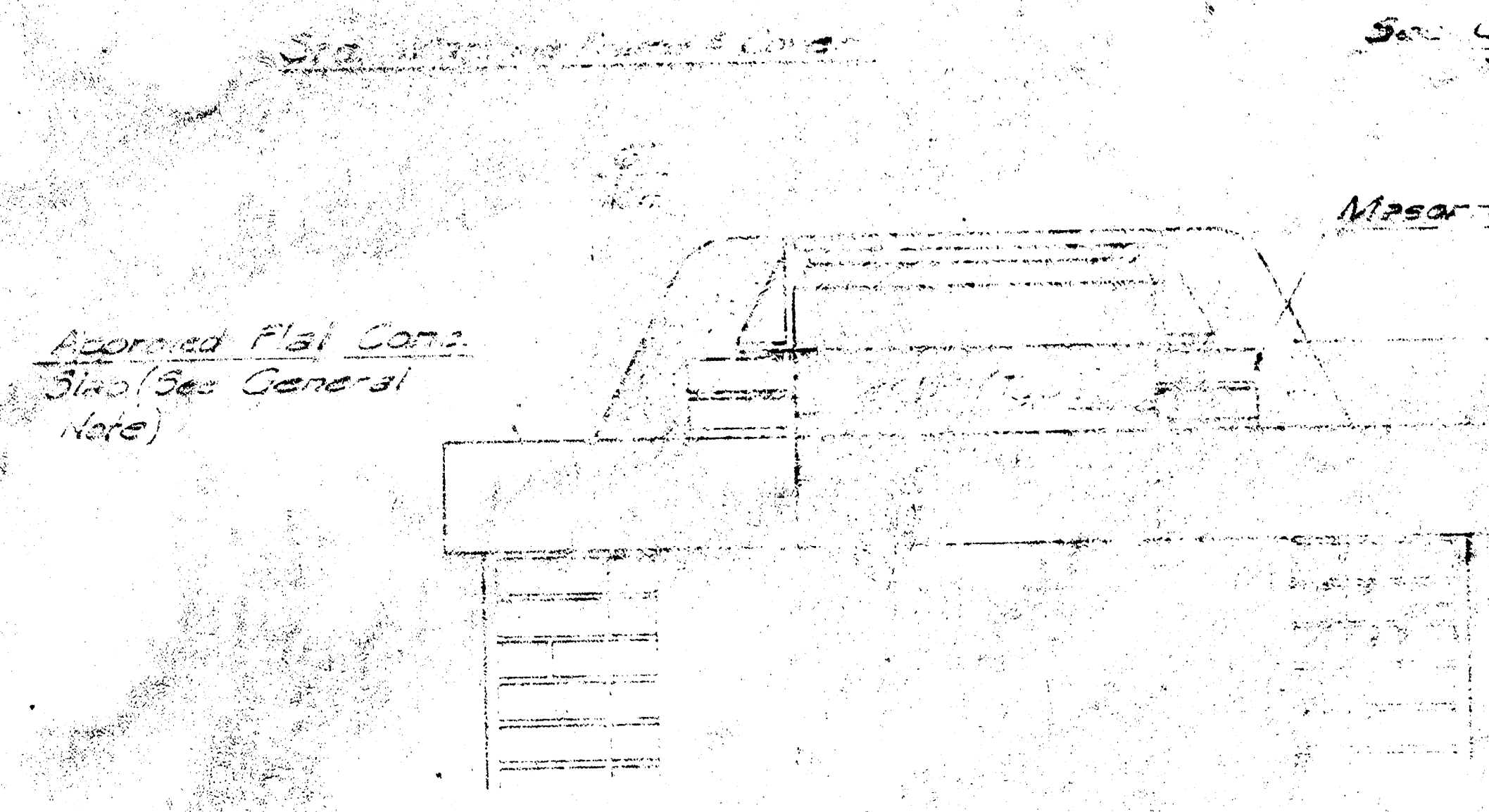
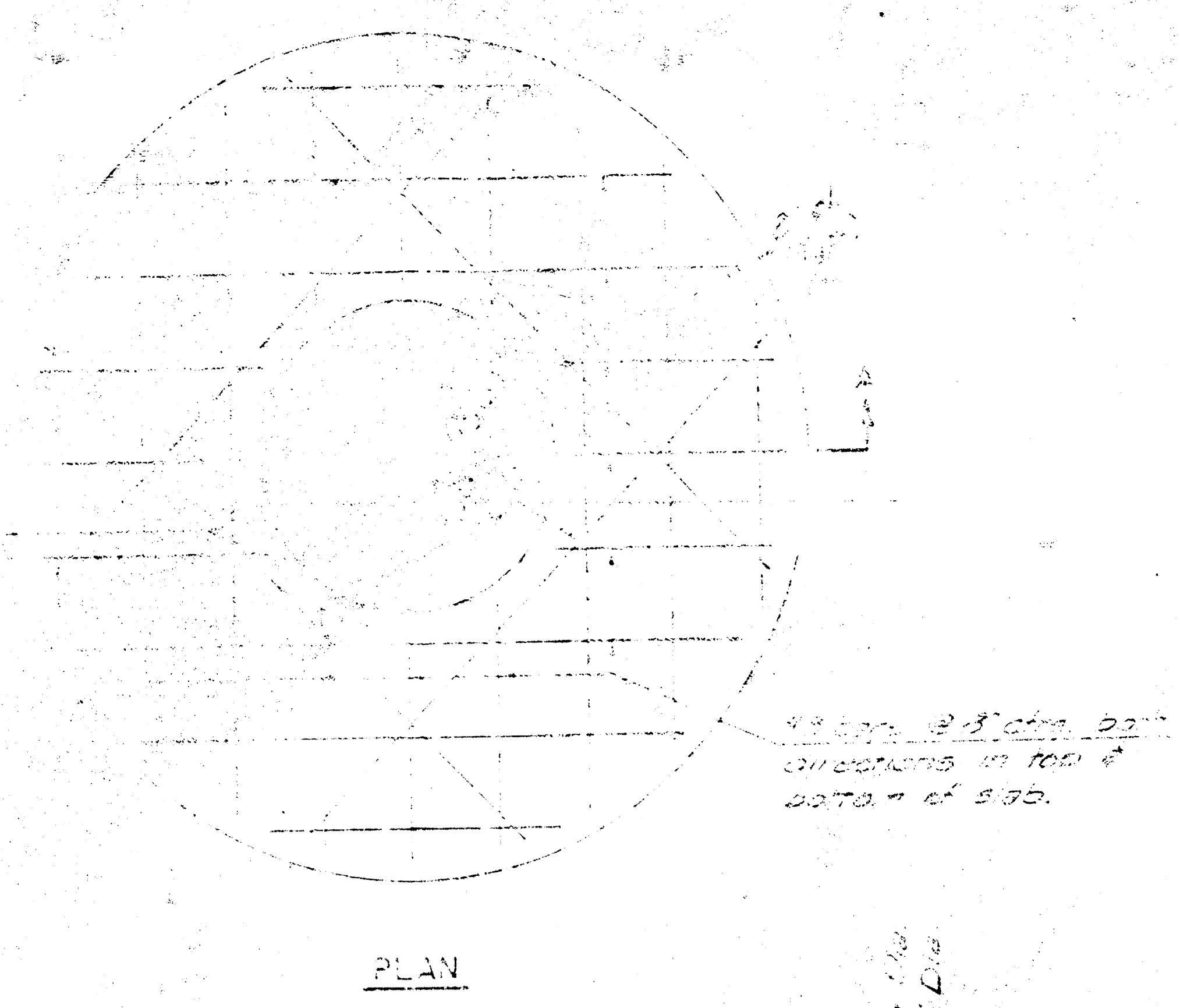
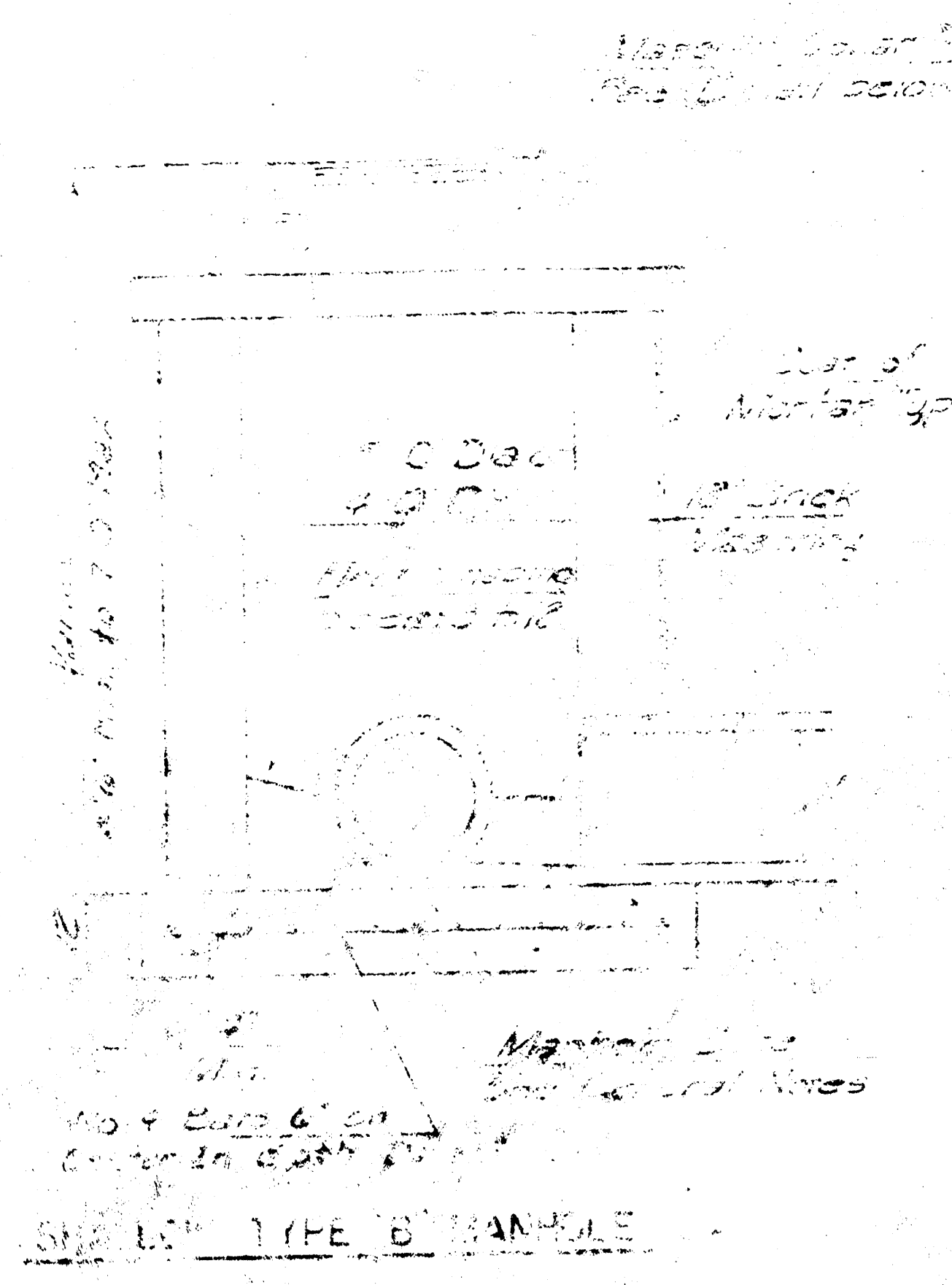
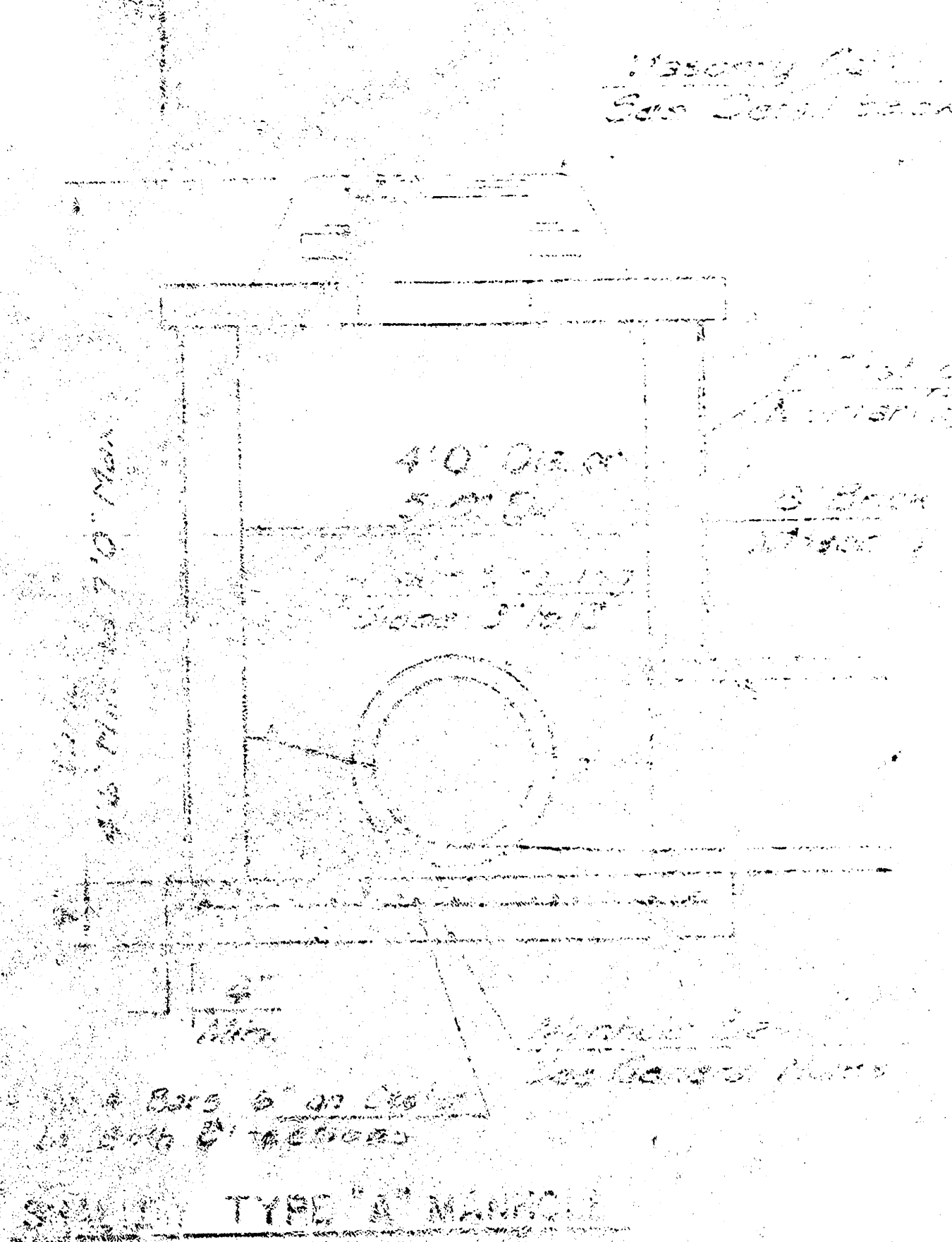
INLET OPENING = 6" x 5' 0"

PROJ. NO. 483-82302

JUNE 1984

SHEET NO. 2 OF 5

3524F-D-70,003



GENERAL NOTES

1. MATERIALS TO BE USED IN CONSTRUCTION SHALL BE OF THE BEST QUALITY OF CEMENT FOR CONCRETE AND OF THE BEST QUALITY OF SAND OR GRAVEL FOR CONCRETE. THE MIX SHALL BE AS SPECIFIED IN THE CITY STANDARD SPECIFICATIONS FOR CONCRETE. THE MIX SHALL BE PLACED IN THE MANHOLE AS SHOWN ON THE DRAWINGS AND SHALL BE CONSISTENTLY PLACED IN THE MANHOLE TO THE TOP OF THE MANHOLE. THE MANHOLE SHALL BE CONSTRUCTED WITHIN THE MANHOLE. THE MANHOLE SHALL BE CONSTRUCTED WITHIN THE MANHOLE. THE MANHOLE SHALL BE CONSTRUCTED WITHIN THE MANHOLE.
2. REINFORCING STEEL SHALL BE DETAIL IN THE MANHOLE BASE AND SHALL CONSIST OF NO. 4 BARS PLACED AT 6" ON CENTER IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT THE BOTTOM OF THE MANHOLE. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT THE BOTTOM OF THE MANHOLE. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT THE BOTTOM OF THE MANHOLE.
3. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF ANY OBSTRUCTION. THE FLOORS SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF ANY OBSTRUCTION. THE FLOORS SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF ANY OBSTRUCTION.
4. PIPES INSTALLED WITHIN THE EXCAVATION SHALL BE OF THE BEST QUALITY OF PIPE. THE PIPES SHALL BE OF THE BEST QUALITY OF PIPE. THE PIPES SHALL BE OF THE BEST QUALITY OF PIPE. THE PIPES SHALL BE OF THE BEST QUALITY OF PIPE.
5. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL BE OF THE BEST QUALITY OF CASTING. THE MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL BE OF THE BEST QUALITY OF CASTING. THE MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL BE OF THE BEST QUALITY OF CASTING.
6. THE CROWN OF INFLUING PIPES SHALL NEVER BE LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE \$100 PER EACH FOR THE TYPE AND SIZE INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE \$150 PER EACH FOR THE TYPE AND SIZE INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE \$150 PER EACH FOR THE TYPE AND SIZE INDICATED.