

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

STORM WATER SEWER IMPROVEMENTS

IN
WICHITA MUNICIPAL AIRPORT ADDITION
CITY OF WICHITA PRIVATE PROJECT NO. 1101PPS (607861)

SHEET NO.	TOTAL SHEETS
01	5

INDEX OF SHEETS

CC 1 TITLE
CC 2 GROUND PLAN
CC 3 REINFORCED CONCRETE INLETS AND MANHOLES



SCALE: 1"=200'

GENERAL NOTES

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. 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. CONTRACTOR SHALL SATISFY HIMSELF OF SUBSURFACE CONDITIONS PRIOR TO BIDDING.

RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED.

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 ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, FERTILIZED, AND MULCHED ACCORDING TO CITY OF WICHITA STANDARDS AND SPECIFICATIONS.

RECORD DRAWING

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

SANITARY SEWERS

STORM SEWERS VRH 4/4/01

DRIVEWAY APPROACHES

WATER MAINS

PAVING

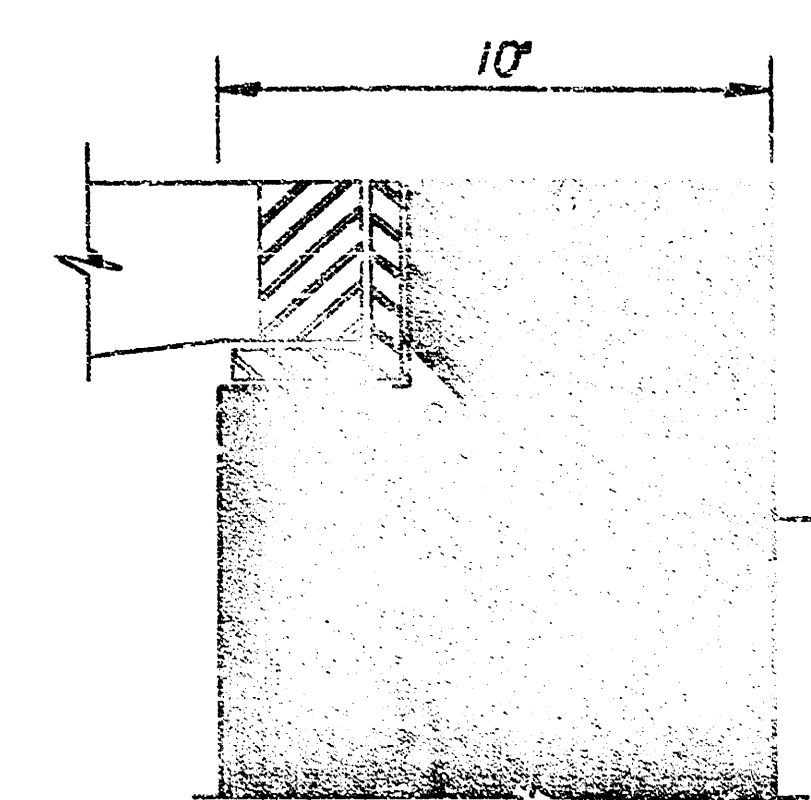
NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM CONTRACTED BY THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR UNTIL SUCH INSPECTION IS ARRANGED FOR AND REQUIRED BONDS HAVE BEEN SUBMITTED TO AND APPROVED BY THE CITY. NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER. IMPROVEMENTS PERFORMED UNDER THIS PROJECT SHALL NOT BE ACCEPTED BY THE CITY UNTIL ALL APPLICABLE DOCUMENTATION HAS BEEN SUBMITTED TO THE CITY ENGINEER. THIS MAY INCLUDE: AS-BUILT DRAWINGS, INSPECTION LOGS, TEST DOCUMENTATION, TV TAPES, AND A CERTIFICATE OF COMPLETION. THE ABOVE SHALL BE PERFORMED BY THE CONSULTING FIRM CONTRACTED TO INSPECT THIS PROJECT.

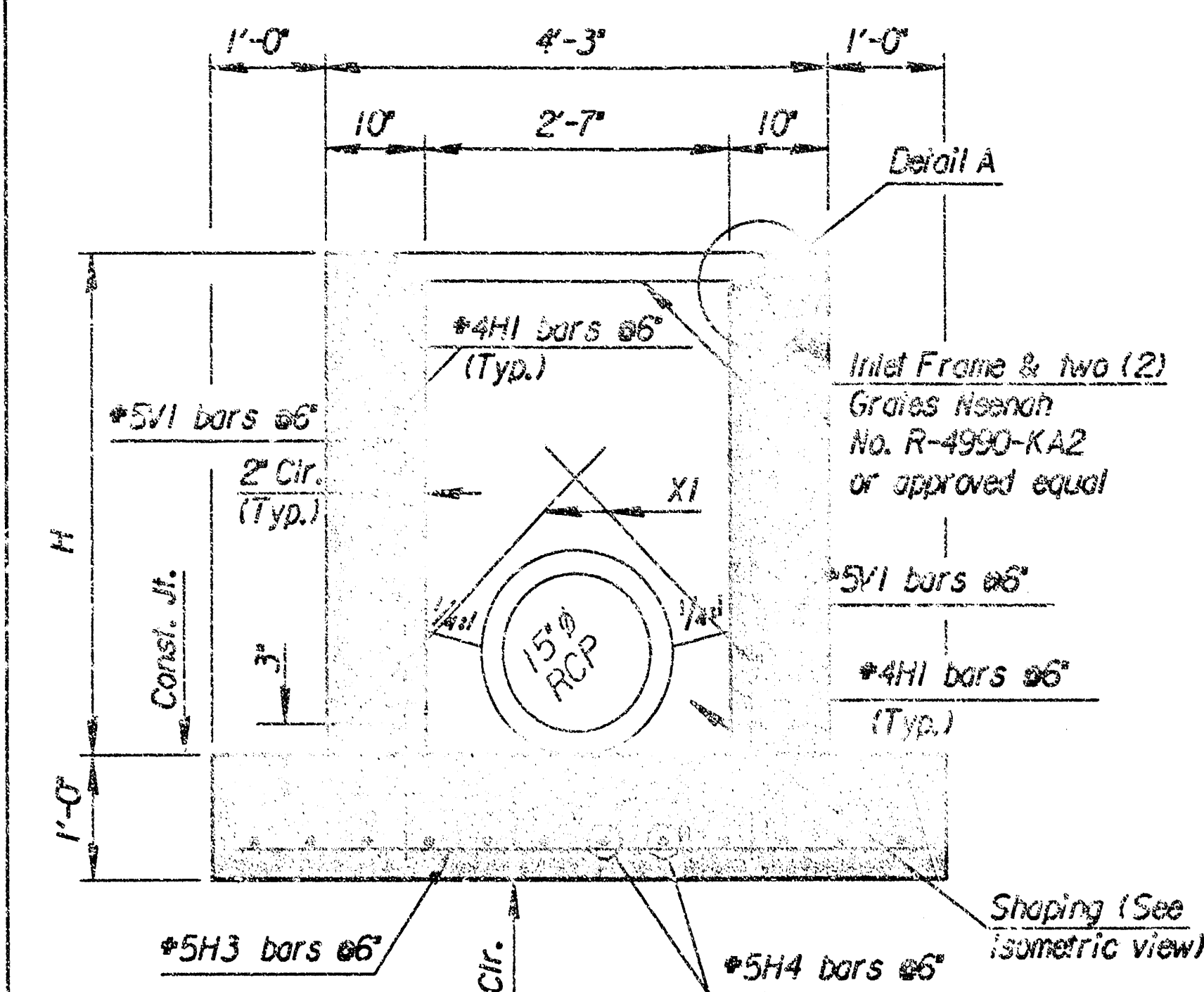
AIRPORT REFERENCE CODE (ARCI) D - IX

MARCH 2001

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



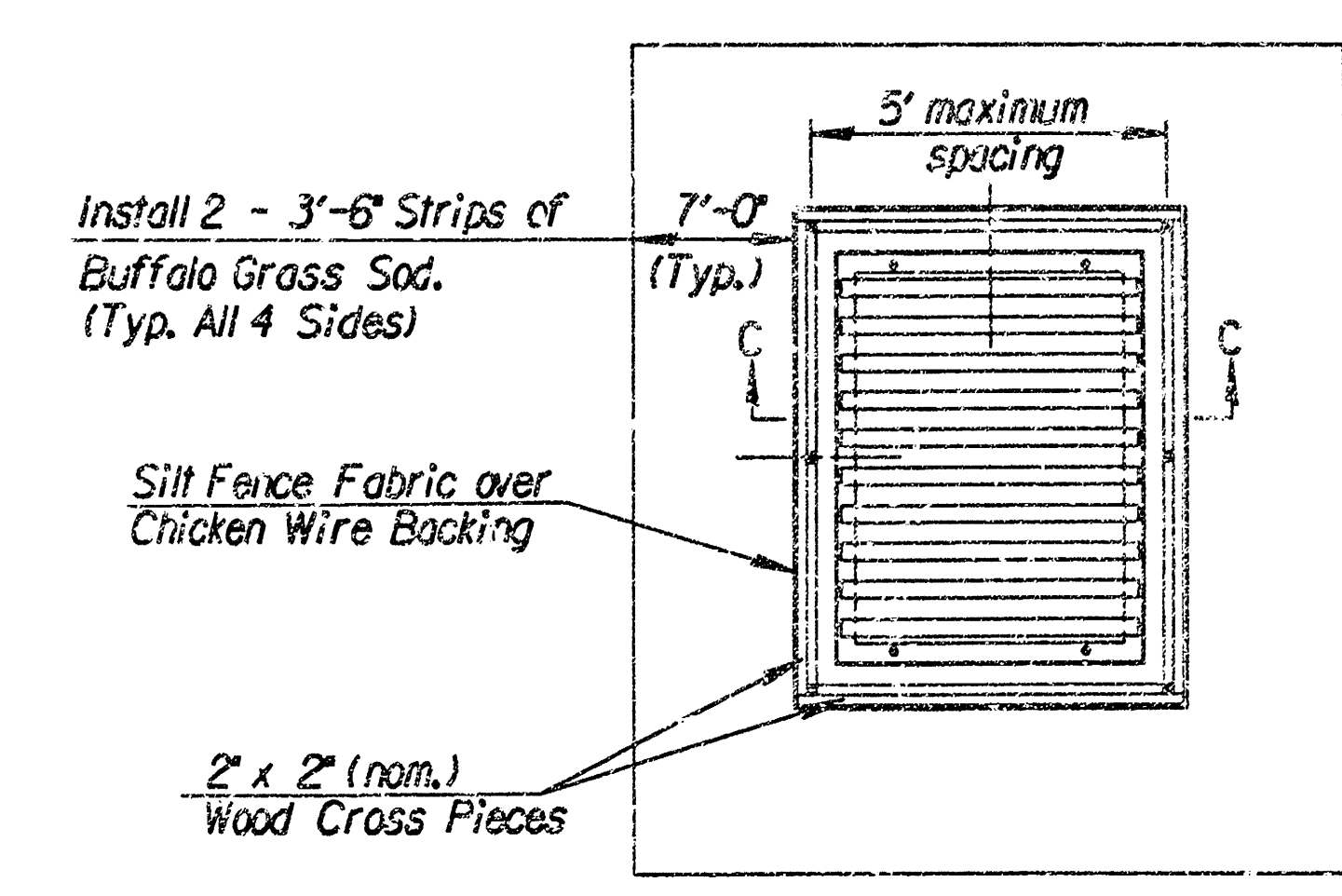
DETAIL A



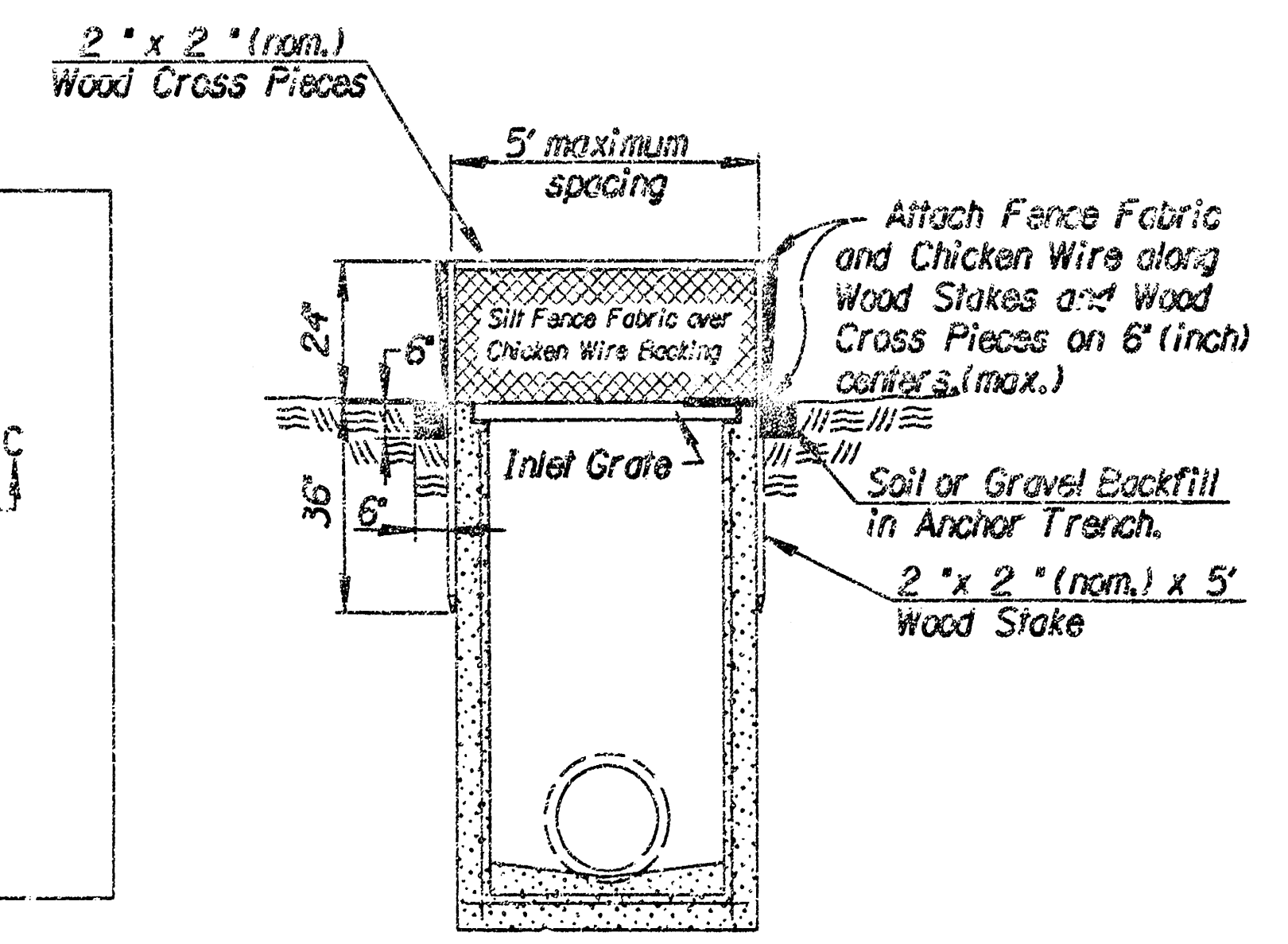
SECTION A-A
Field align inlets parallel to new RCP

AREA INLET

LOCATION	SWS STA.	H
8521.85N, 10331.01E	1+55.9	3'
8632.89N, 10320.14E	2+67.5	3'



PLAN



SECTION C-C

TEMPORARY INLET SEDIMENT BARRIER AND
PERMANENT SEEDING
NO SCALE

Inlet Sediment Barrier and Buffalo Grass Sod
to be Subsidiary to Permanent Seeding.

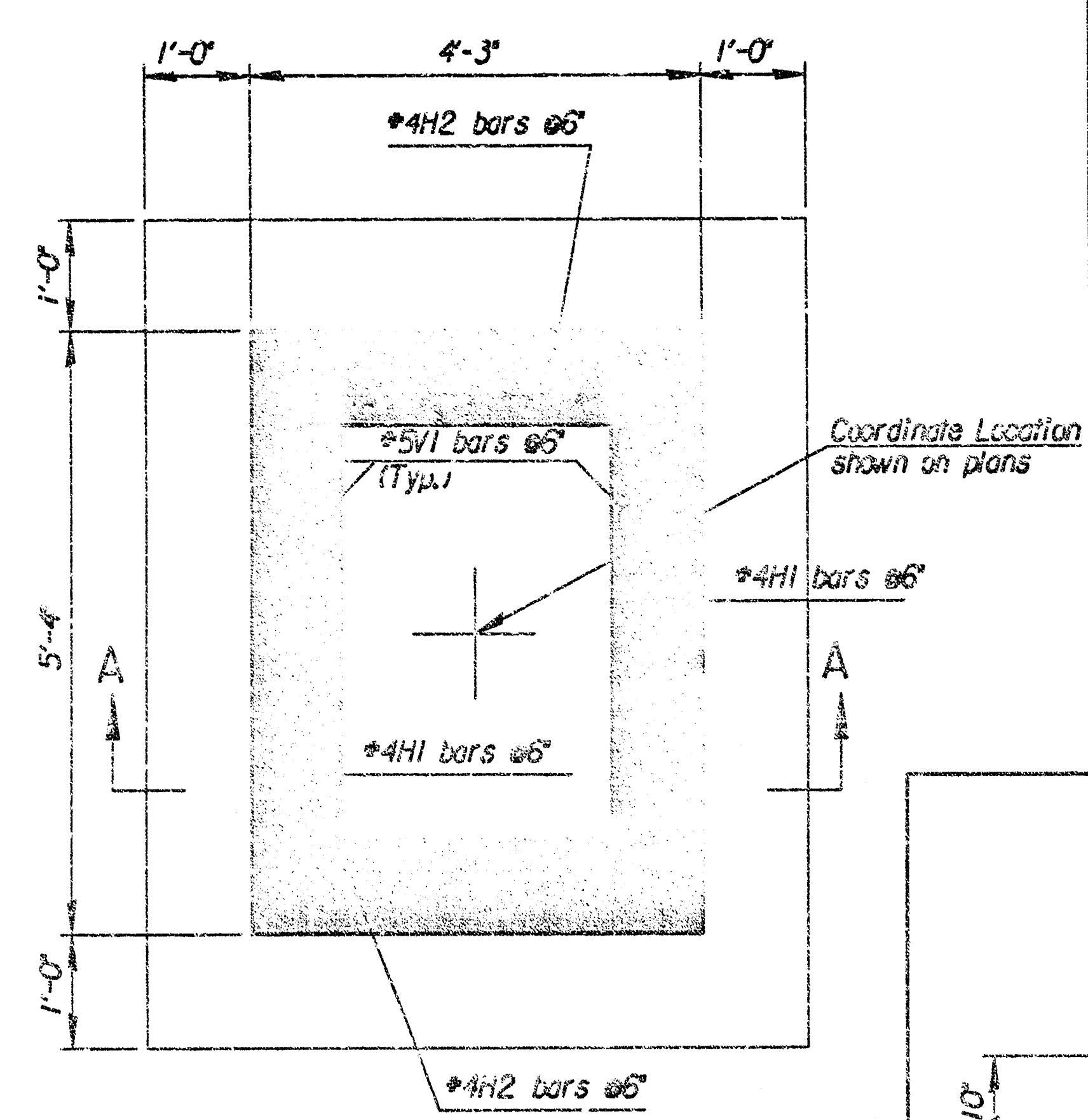
**BILL OF MATERIALS
FOR MANHOLE**

5'-0" Wall Height
Located at Taxiway E3
Sta. 6+58.24, 67.50 L.

Bar	No.	Size	Length
V1	36	#5	5'-7"
H1	32	#5	5'-7"
H2	32	#5	7'-4"
H3	20	#6	5'-4"
H4	4	#6	5'-7"
H5	4	#6	4'-2"
X1	4	#5	4'-0"

Class II Conc. (AE) 5.6 Cu.Yd.
Reinf. steel 705 Lbs.
Excavation 33.2 Cu.Yd.
Cast Iron 440 Lbs.

Quantities for inlets and Manhole
are for information only.

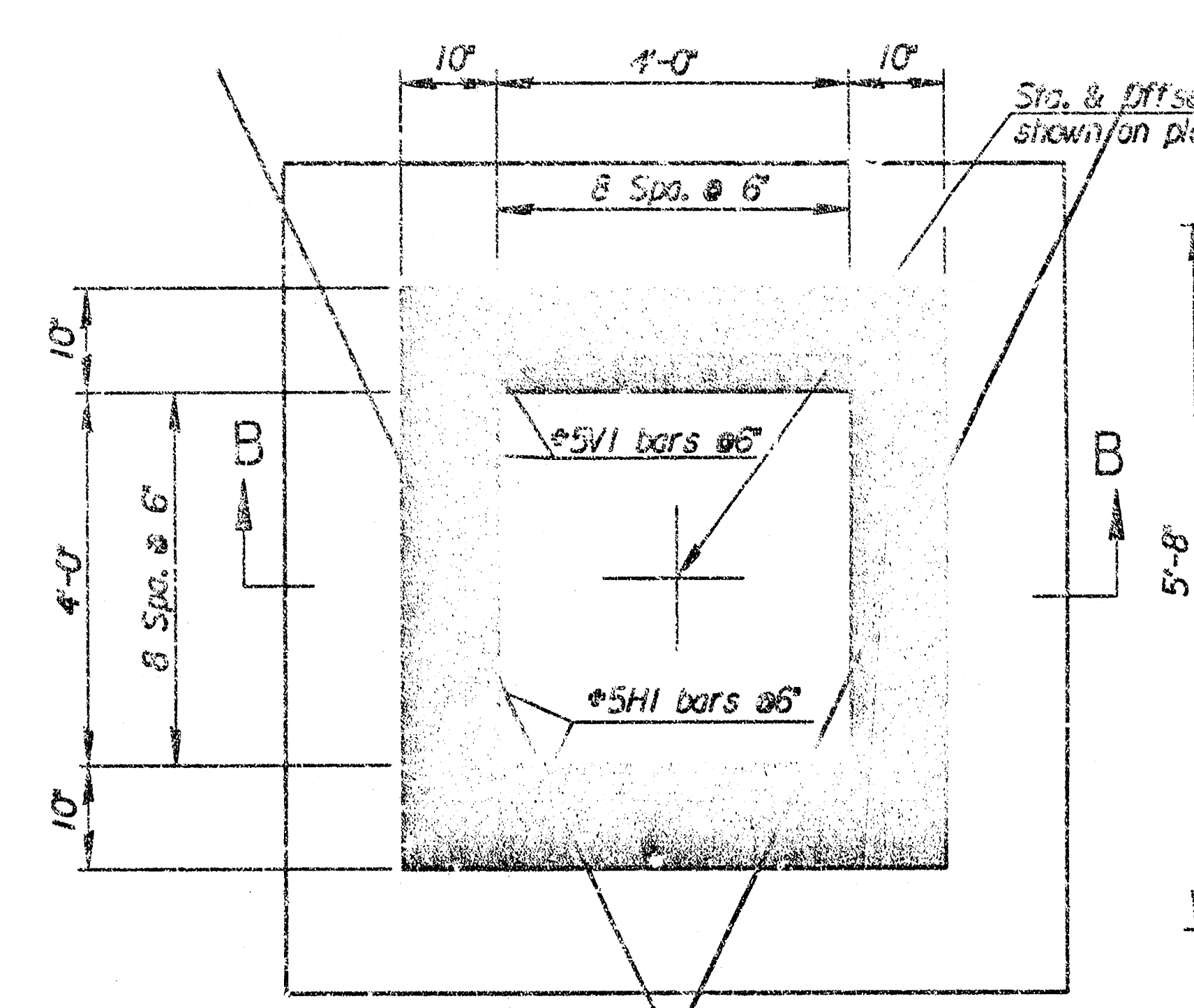


PLAN SECTION

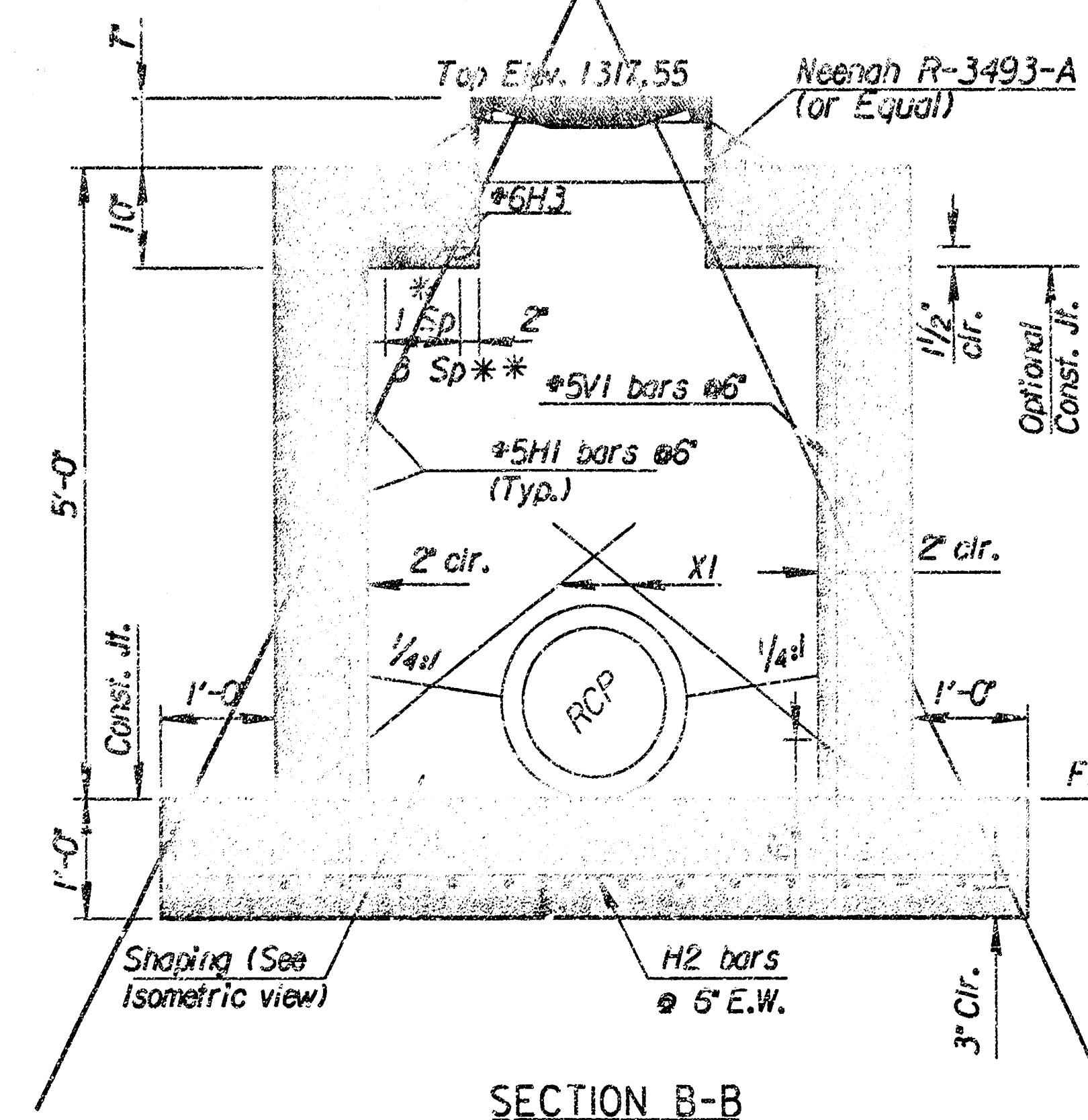
BILL OF MATERIALS FOR AREA INLETS 3'-0" Wall Height				BILL OF MATERIALS FOR AREA INLETS 4'-0" Wall Height			
Bar	No.	Size	Length	Bar	No.	Size	Length
V1	28	#5	3'-5"	V1	23	#5	4'-6"
H1	12	#4	5'-0"	H1	12	#4	5'-0"
H2	12	#4	3'-11"	H2	12	#4	3'-11"
H3	14	#5	5'-11"	H3	14	#5	5'-11"
H4	12	#5	7'-0"	H4	12	#5	7'-0"
X1	2	#5	3'-6"	X1	4	#5	3'-6"

Class II Conc. (AE) 3.16 Cu.Yd.
Reinf. steel 355 Lbs.
Excavation 17.2 Cu.Yd.
Cast Iron 722 Lbs.

Class II Conc. (AE) 3.77 Cu.Yd.
Reinf. steel 392 Lbs.
Excavation 21.5 Cu.Yd.
Cast Iron 722 Lbs.

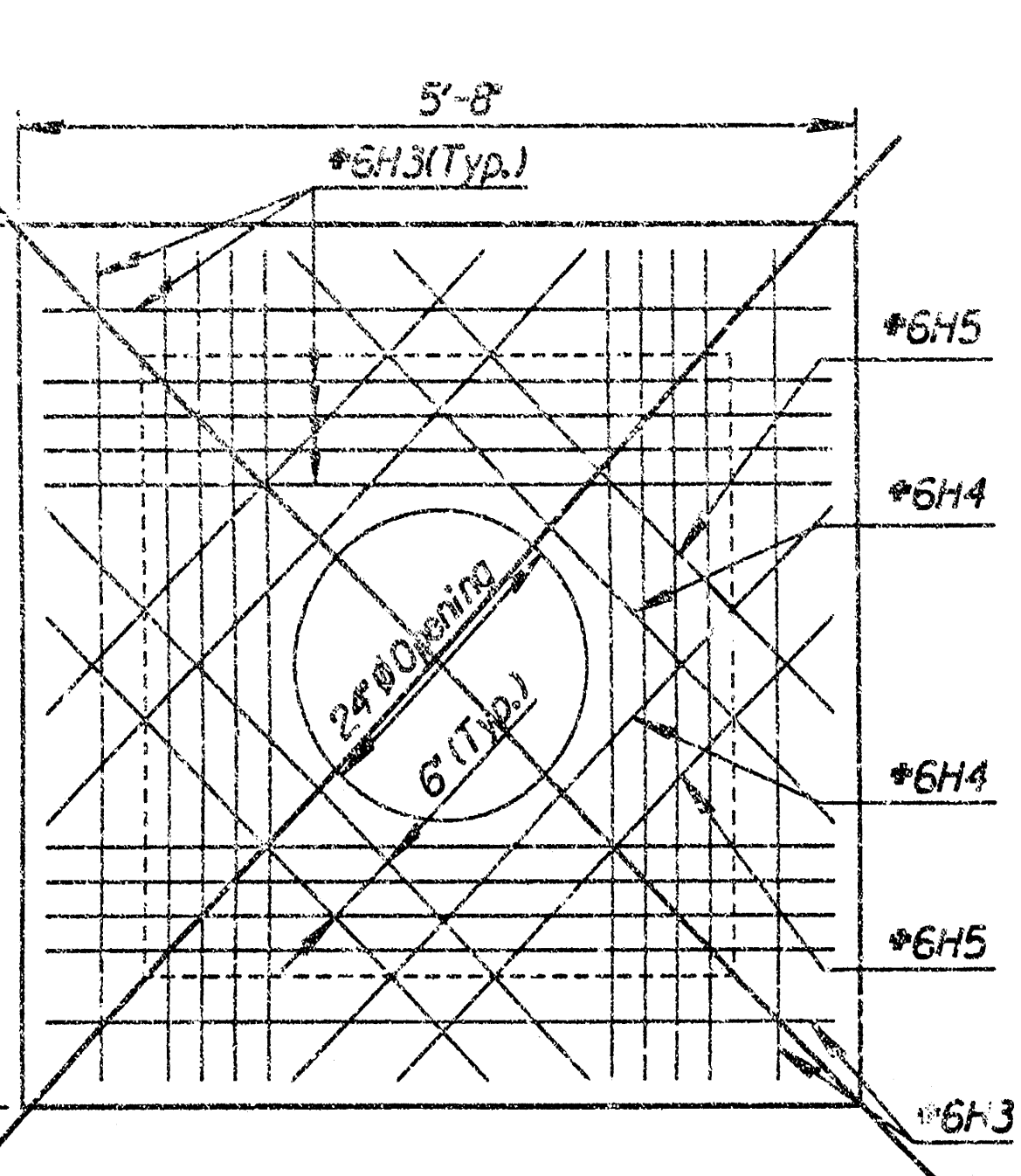


PLAN SECTION

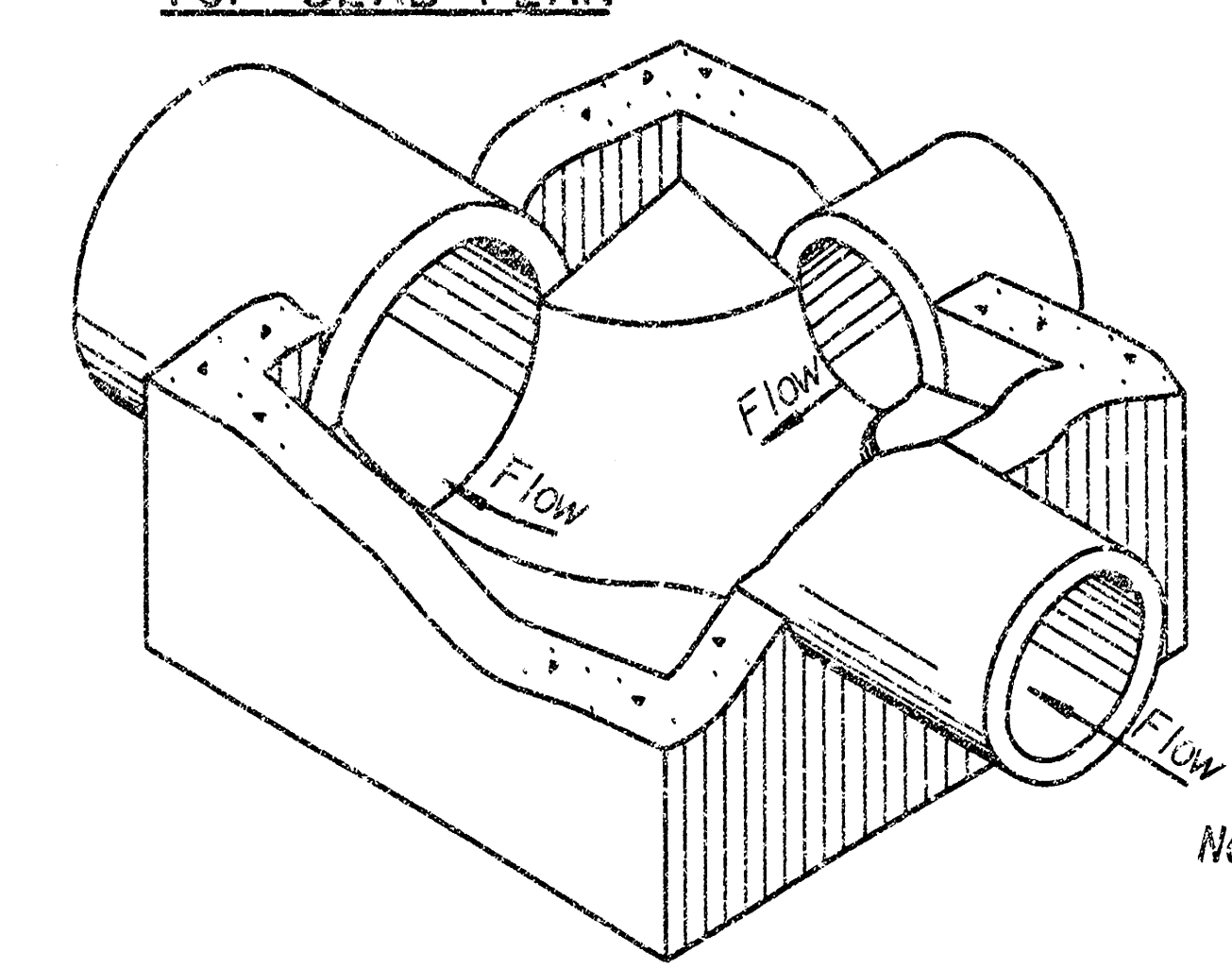


SECTION B-B

MANHOLE
Field-align manhole parallel to existing RCP



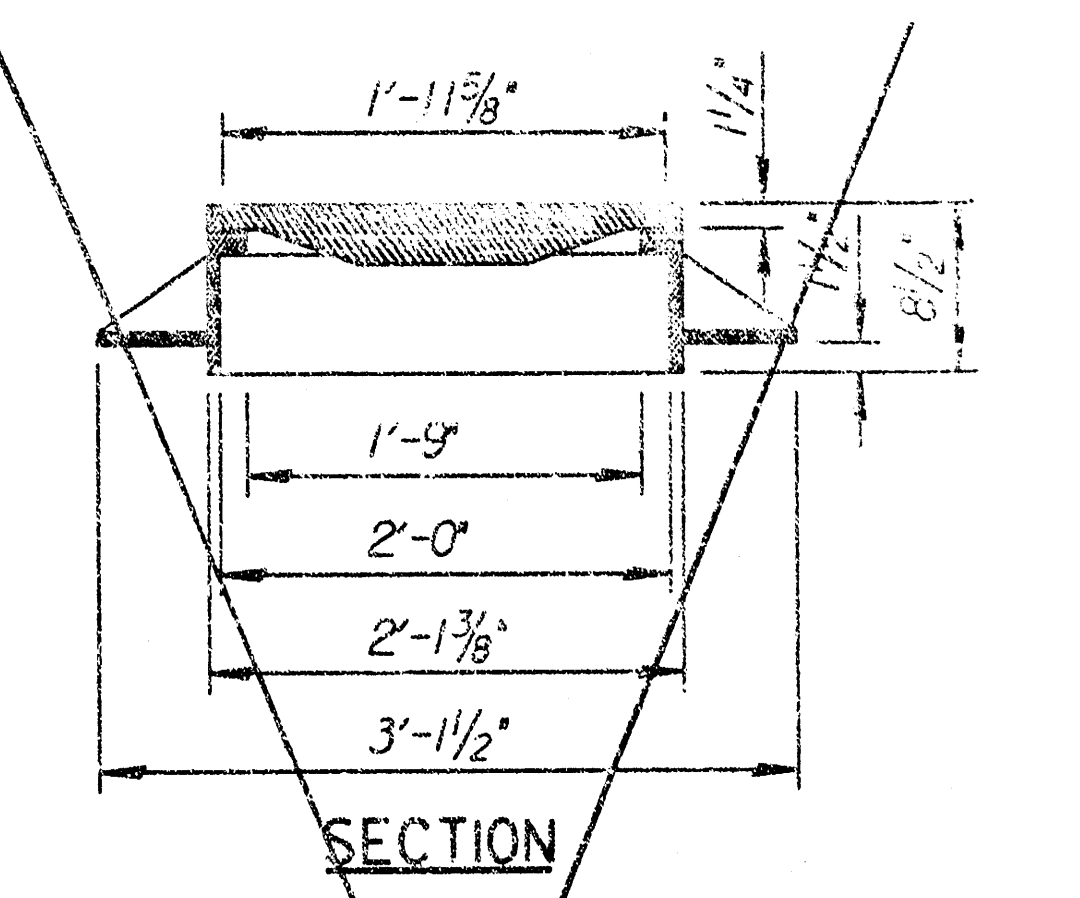
TOP SLAB PLAN



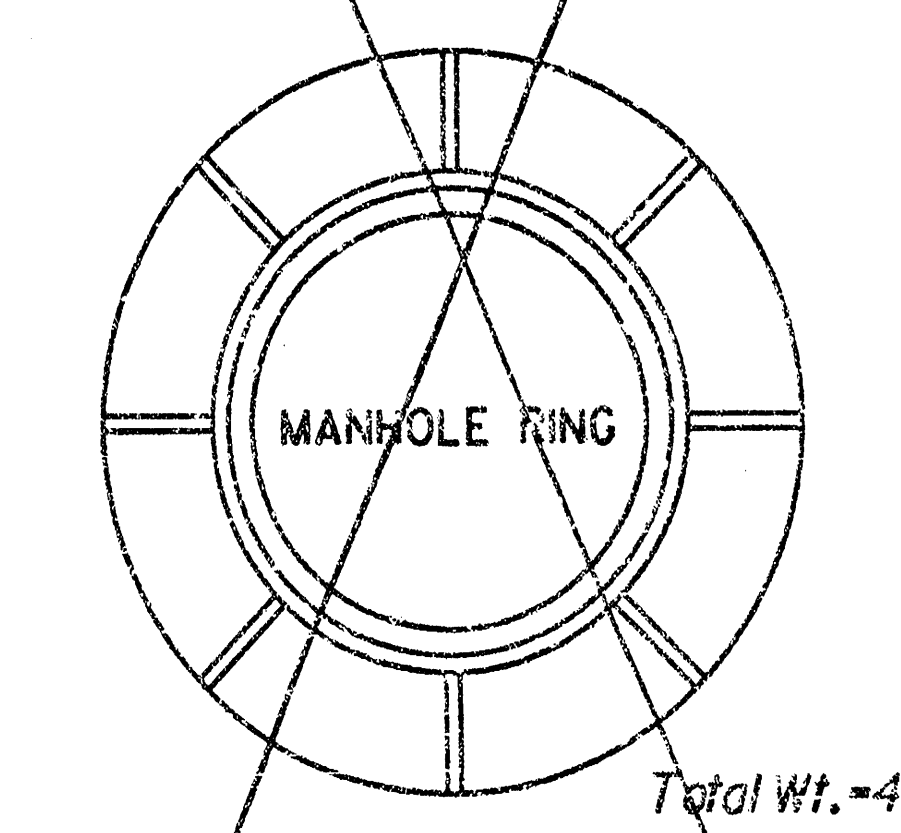
ISOMETRIC VIEW

GENERAL NOTES

- Class II Concrete (AEXP-610) shall be used throughout. Sevel all exposed edges with a 3/4" triangular molding or with an approved edging tool.
- Reinforcing steel shall be a minimum Grade 60, ASTM A515. All bars shall have a minimum clearance of 2" unless otherwise noted on the plans.
- All dimensions relative to placement of Reinforcing are to the centerline of bars unless otherwise noted.
- Pipes will enter and leave the inlets or manhole at various positions. Field bond or cut reinforcing to clear pipes. See plan sheets for RCP elevations for RCP's.
- Inlet invert shall be shaped with unreinforced Class II Concrete (P-610) to create flow channels and to increase hydraulic efficiency such that the inlet or manhole will be self cleaning between all inlet and/or outlet pipes. (See Isometric View, this sheet.)
- The Area Inlet grate must be certified by the manufacturer as being capable of supporting a design wheel load of at least 200 P.S.I. All castings shall be gray iron.
- The Manhole Ring and Cover must be certified by the manufacturer as being capable of supporting an aircraft wheel load of at least 100,000 lbs.



SECTION



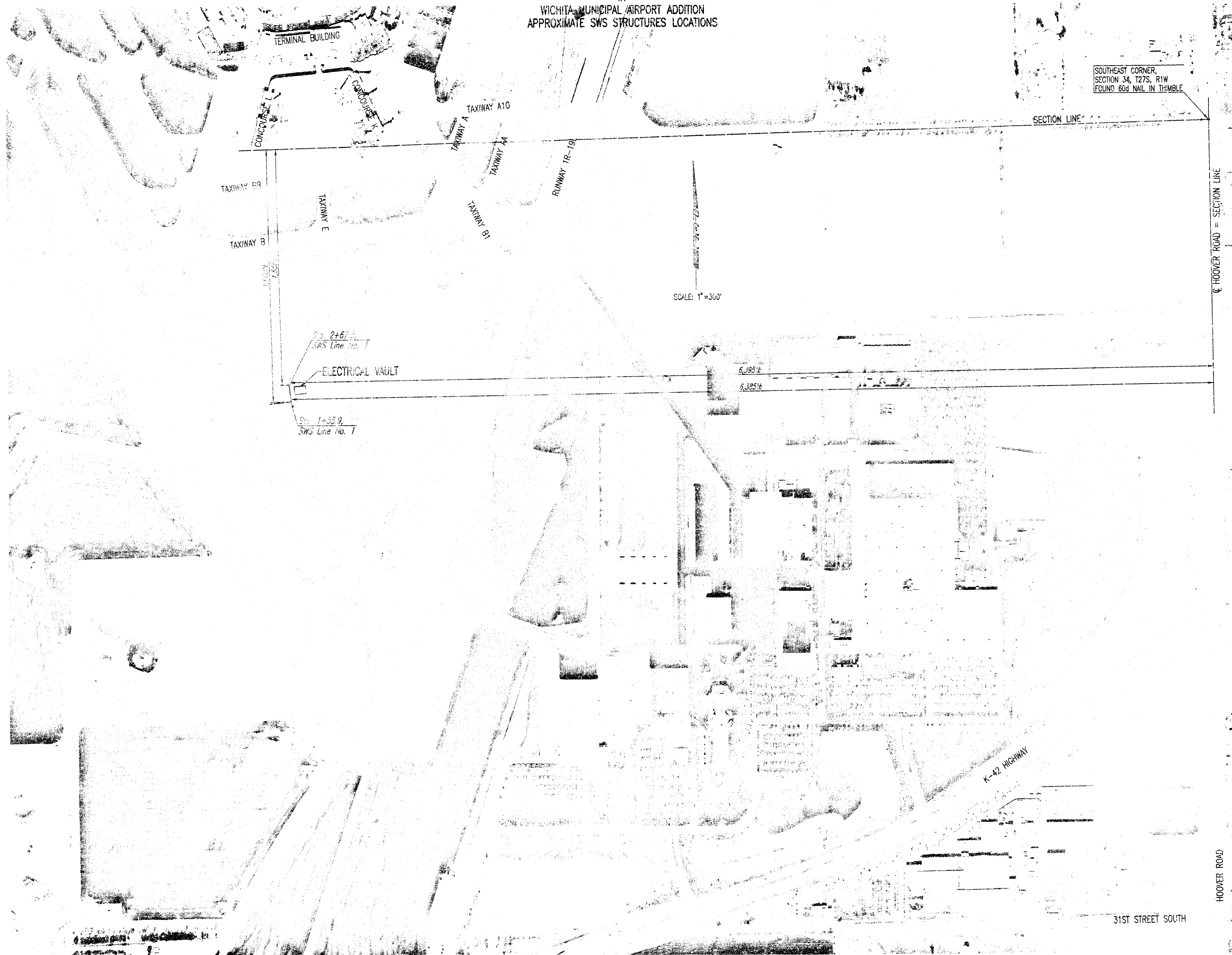
PLAN

HEAVY TYPE
MANHOLE COVER AND RING
Neenah R-3493-A (or Equal)
Note: Inlets modified from KDOT Std. No. 648
Manhole modified from KDOT Std. No. 633.

RECORD DRAWING
B-4/E-6

No.	Revisions	By	Date
1	THE WICHITA AIRPORT AUTHORITY MID-CONTINENT AIRPORT WICHITA, KANSAS		
REINFORCED CONCRETE INLETS AND MANHOLES			
AIP PROJECT NO. 3-20-0088-31			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS			
Designed by	DAR	Checked by	
Drawn by	DJW	Date	10/5/00
		Job No.	00389

STORM WATER SEWER IMPROVEMENTS
IN
WICHITA MUNICIPAL AIRPORT ADDITION
APPROXIMATE SWS STRUCTURES LOCATIONS



DNB: KER OFER: SAD SCALE: 1"=300.00
01/2000/00380 Private SWS.ssm 04-02-2001 09:37:37 am