

17TH & HILLSIDE DRAINAGE (W.S.U)

PROJ. No. 872-70-245-50707-350-013 -000

INDEX No. 610550

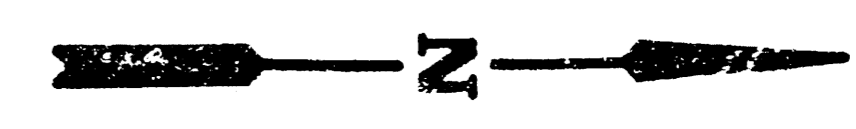
CITY OF WICHITA, KANSAS

M.E. LINDEBAK  CITY ENGINEER

<u>SHEET No.</u>	<u>DESCRIPTION</u>
1. _____	COVER SHEET
2. _____	PLAN — 17TH & HILLSIDE
3. _____	PROFILE LINE No. 1 - 17TH STREET NO.
4. _____	PROFILE LINE No. 1 - HILLSIDE AVE W CLEANOUT RISER
5. _____	COVERED CONC. OUTLET BOX DETAILS. PAVEMENT SECTION W JOINT DETAILS.
6. _____	DETAIL STD. TYPE II CURB INLET
7. _____	WHEELCHAIR RAMP DETAILS PAVING DETAILS

REVISED JUNE 23, 1989
SHEETS 2-3-4 & 7 REVISED TO SHOW
W.S.U. TELE. CONDUIT & PVC WATER LINE
LOCATIONS.

*Booked
12/89
MCG*



SCALE: 1" = 20'

STA 0+00
CONSTRUCT CONCRETE CURB
OUTLET BOX. SEE SHEET 5
FL. 6" P.V.C. @ 16985

45° BEND
0+06

REMOVE & REPLACE 6"
CONCRETE DRIVE.

BUS STOP BENCHES

ASPHALT

PARKING LOT

SEE SHEET 7 FOR WHEEL-
CHAIR RAMP CONSTRUCTION.

NEW JOINT LOCATIONS ARE TO BE CONSISTENT
WITH EXISTING PAVEMENT JOINTS.

U.S. TELECOMMUNICATIONS JUNCTION BOX
NOTE: TELEPHONE CABLES RUN SOUTH OUT OF TELEPHONE VAULT.
DEPTHS AND LOCATIONS UNKNOWN. USE EXTREME
CAUTION IN THIS AREA.

NOTE: 4" GAS LINE MAY
NEED TO BE ADJUSTED
DURING CONSTRUCTION.

2.0' DEEP TOP PAV'T
SURFACE TOP 8" WATER.

B.M. 177.68 CITY OF WICHITA
DISC. 32' W. 44' S. @ BOTH.
17TH ST & HILLSIDE AVE

R/W = 30' E

FULL WALK

12" WATER

24" BK

6" BK

24" BK

6" BK

FULL WALK

R/W = 30' E

ST LIGHT

REMOVE W.C.R. AND CONST.
STD. WHEELCHAIR RAMP TO
MATCH NEW CONSTRUCTION.

STA 2+05 CONSTRUCT STD.
TYPE II CURB INLET. T.C. 1710'
L = 3'-8" W = 3'-4 3/8"
6" OUT 17150 - 6" IN 17180

ADD ALT. CONSTR STD TYPE
II CURB INLET & INSTALL 32'
L.F. 6" P.V.C. PIPE

17TH ST. NO.

R/W

4" SIDEWALK

4" SIDEWALK

4" PVC WELL CASING

4" PVC WELL CASING

4" PVC WELL CASING

4" PVC WELL CASING

4" PVC WELL CASING

4" PVC WELL CASING

4" PVC WELL CASING



4" PVC WELL CASING

4" PVC WELL CASING

GENERAL NOTES

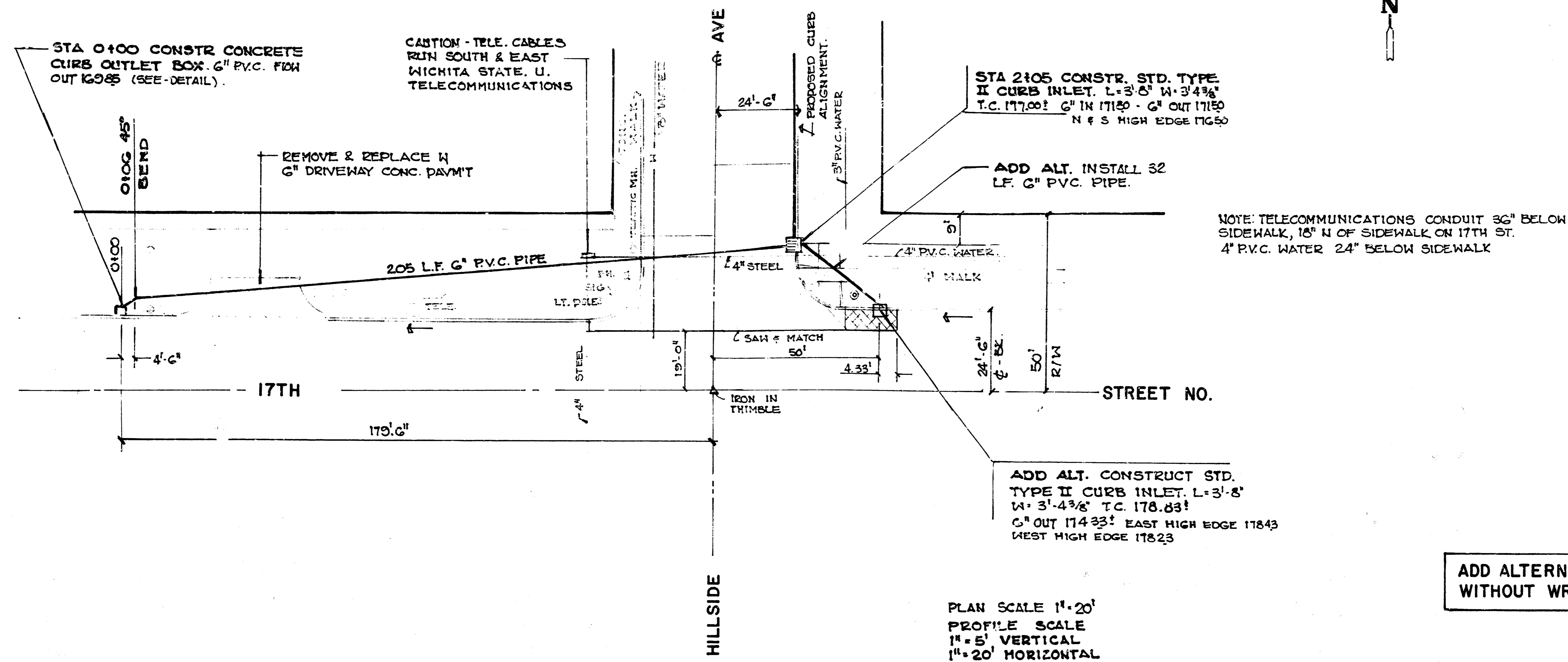
1. NEW PAVEMENT ELEVATIONS SHALL BE DETERMINED BY FIELD ENGINEER CONSISTENT WITH VERTICAL ALIGNMENT AND CROSS SLOPE OF EXISTING PAVEMENT.
2. ALL EARTHWORK OTHER THAN SUBGRADE COMPACTION NECESSARY TO COMPLETE THIS PROJECT IS TO BE SUBSIDIARY TO OTHER BID ITEMS.
3. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO A CONDITION ACCEPTABLE TO THE ENGINEER.
4. GRASSED AREAS DISTURBED BY THE CONST. OF THE IMPROVEMENTS SHALL BE REPLANTED W/ REBEL II FESCUE SEED 10LBS/1000 SF. - FERTILIZER 16-20-0 @ 10LBS/1000 SF. AND IS TO BE SUBSIDIARY TO OTHER BID ITEMS.
5. UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, AND ETCETERA 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. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT OF WAY WHICH DO NOT COMFLICT WITH PROPOSED CONSTRUCTION.

6. A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF THE 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 COURSE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. SAWED JOINT TO FACILITATE REMOVAL WITHIN THREE (3) FEET OF EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND 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.
7. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITE. 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.
8. TRAFFIC IS TO BE CARRIED THROUGH CONSTRUCTION.

 DENOTES COMPLETE REMOVAL
 DENOTES ADD ALTERNATE REMOVAL & REPLACEMENT

PROJECT DESCRIPTION
HILLSIDE AVE. & 17TH ST. NO.
 PROJECT NUMBER
 872-70-245-50707-350-013-000

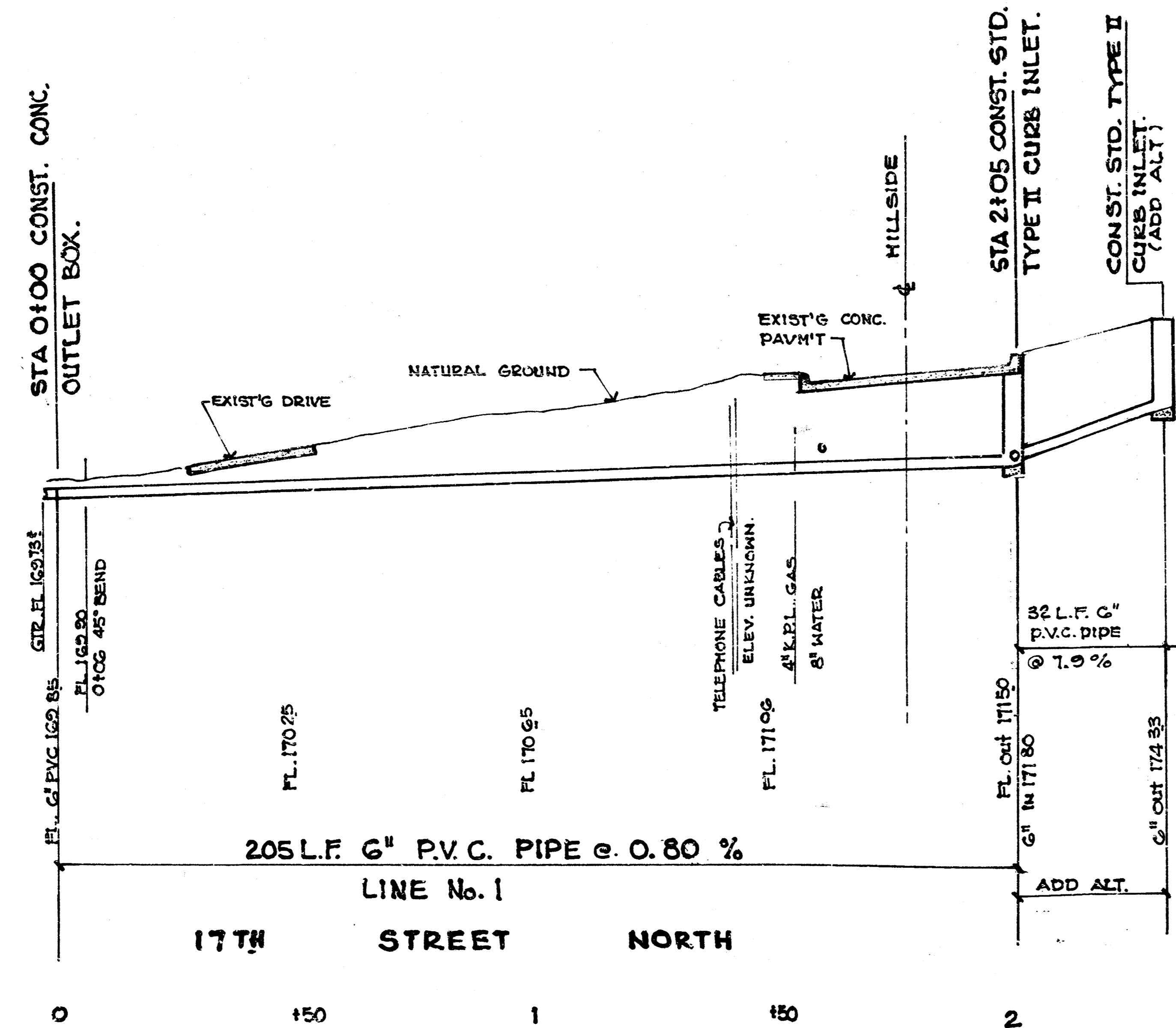
SURVEY BY: HALL BOON D.R.M. & ARVIDSON.



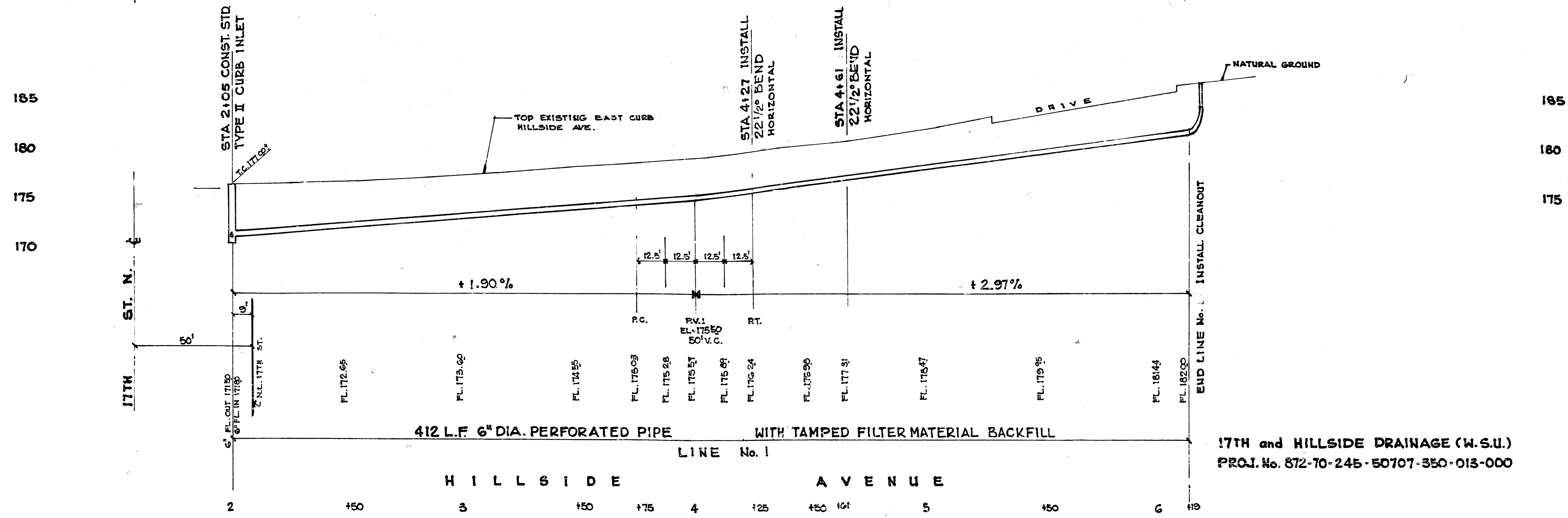
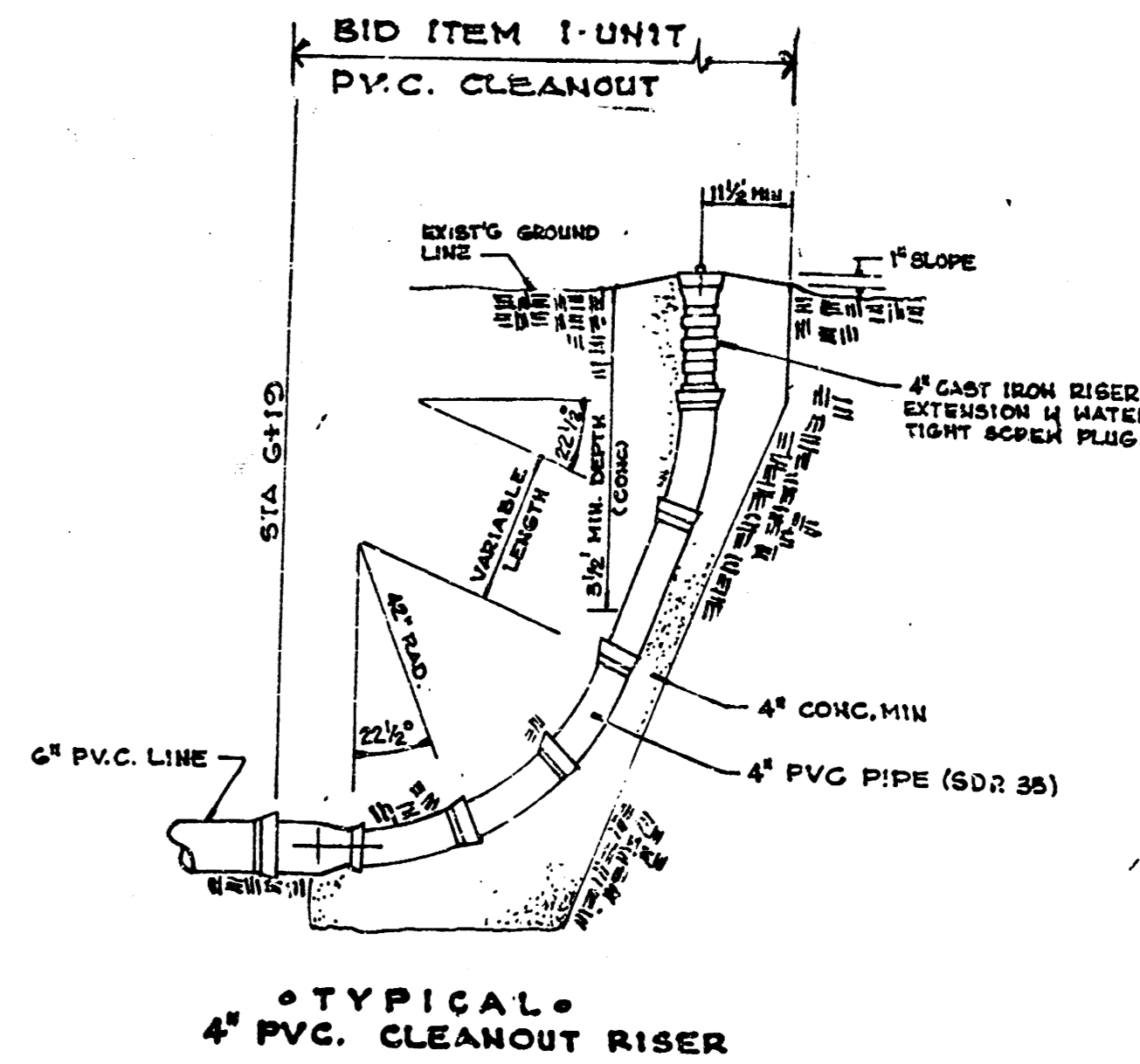
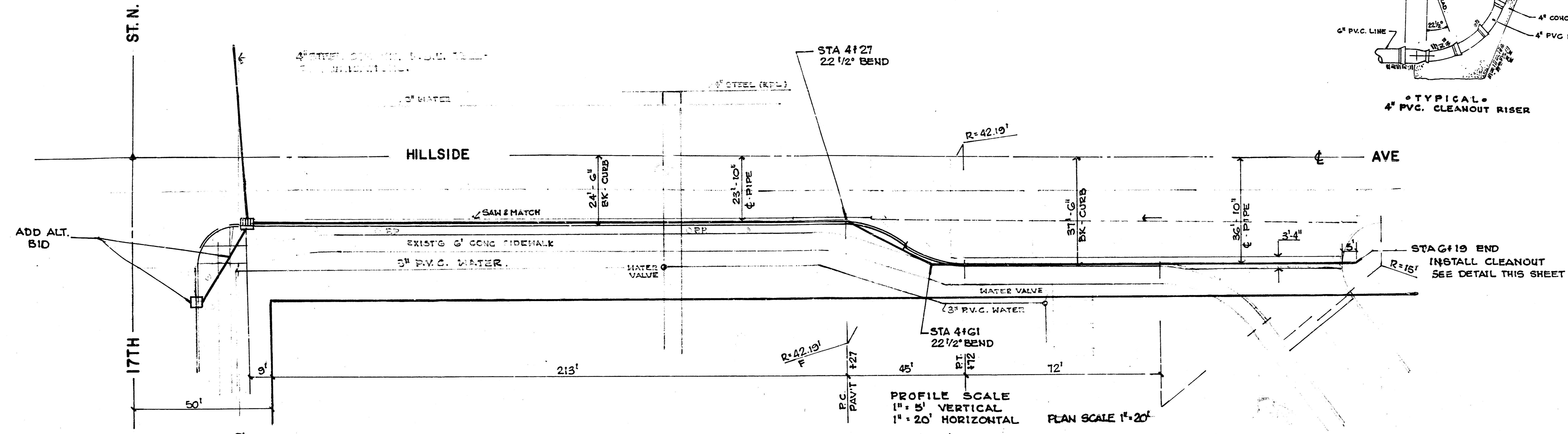
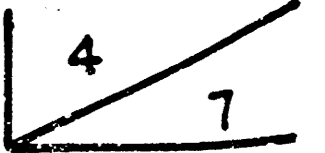
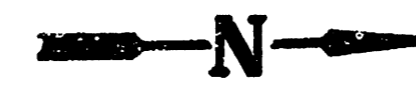
ADD ALTERNATE IS NOT TO BE CONSTRUCTED WITHOUT WRITTEN APPROVAL OF THE CITY ENGR.

180
175
170
165

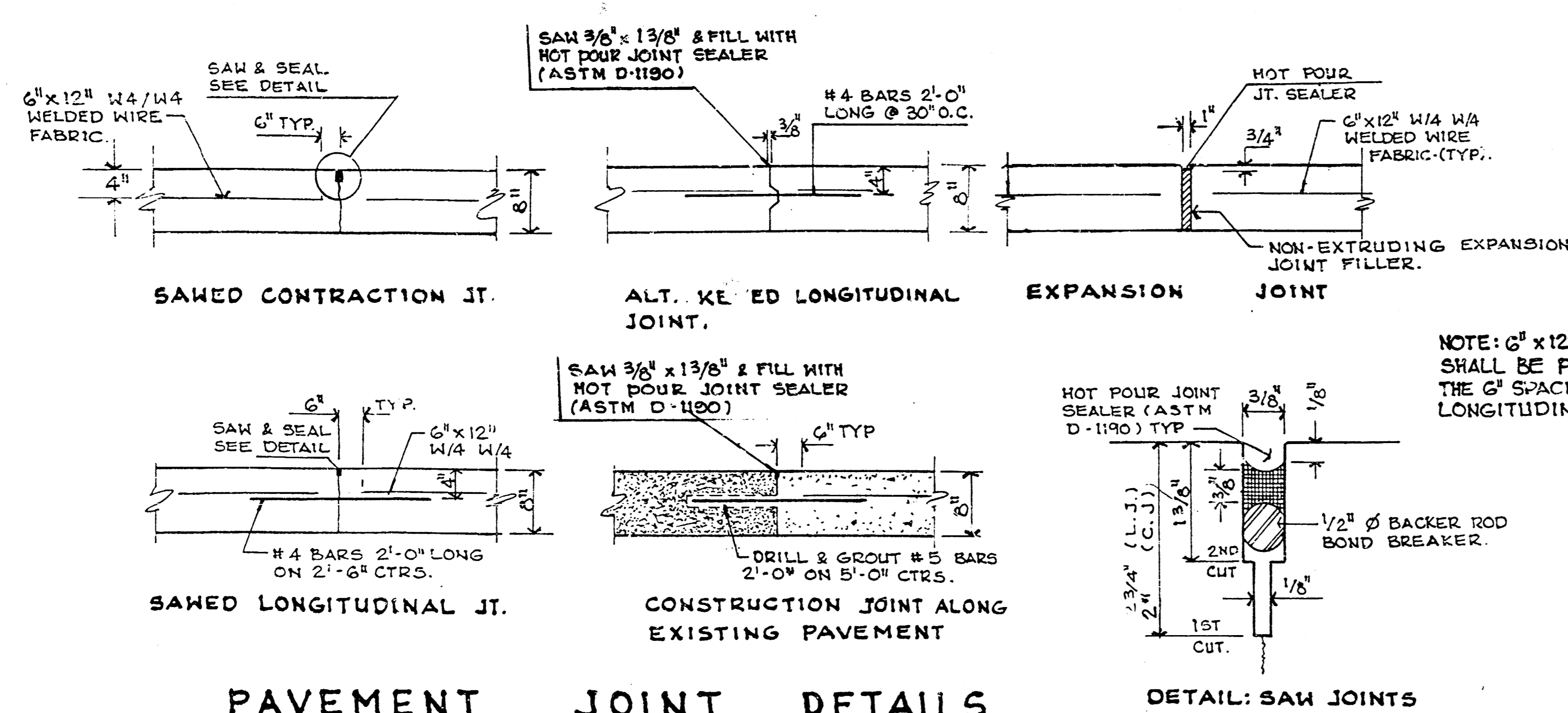
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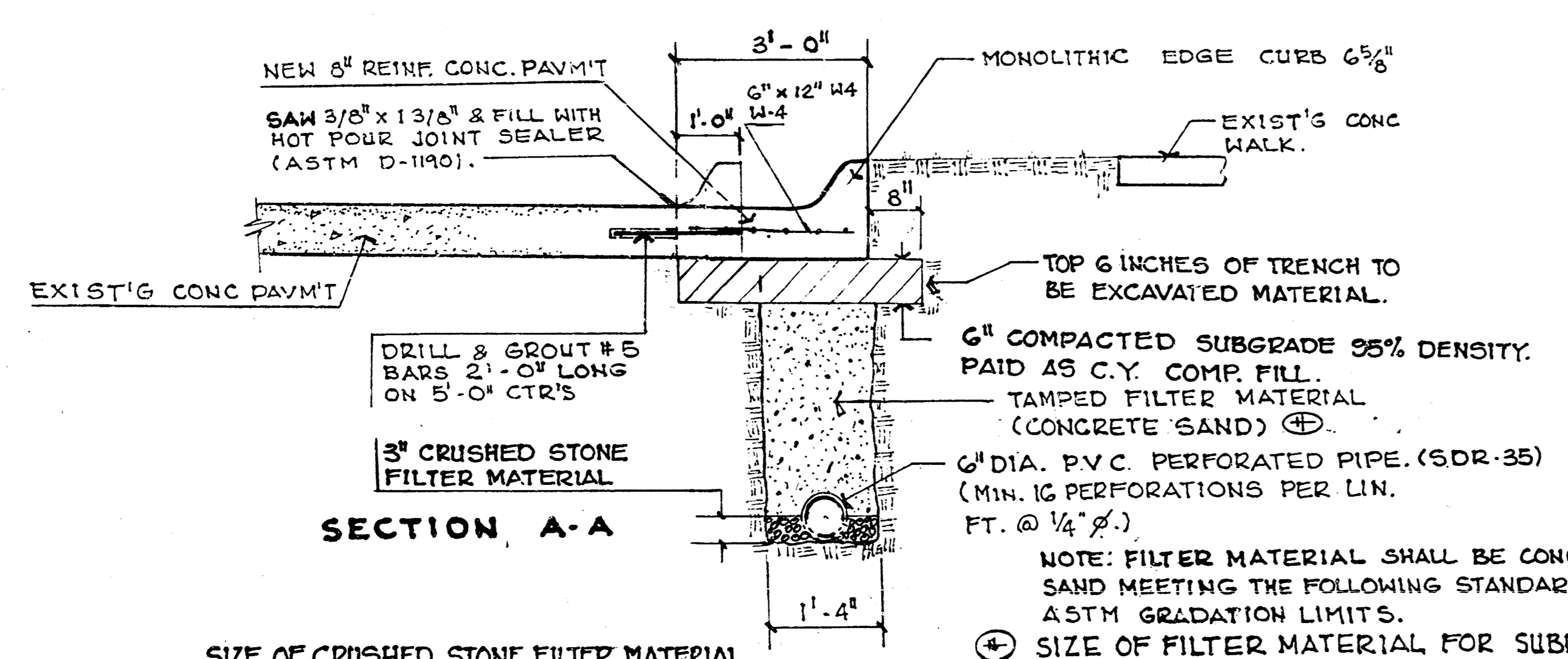
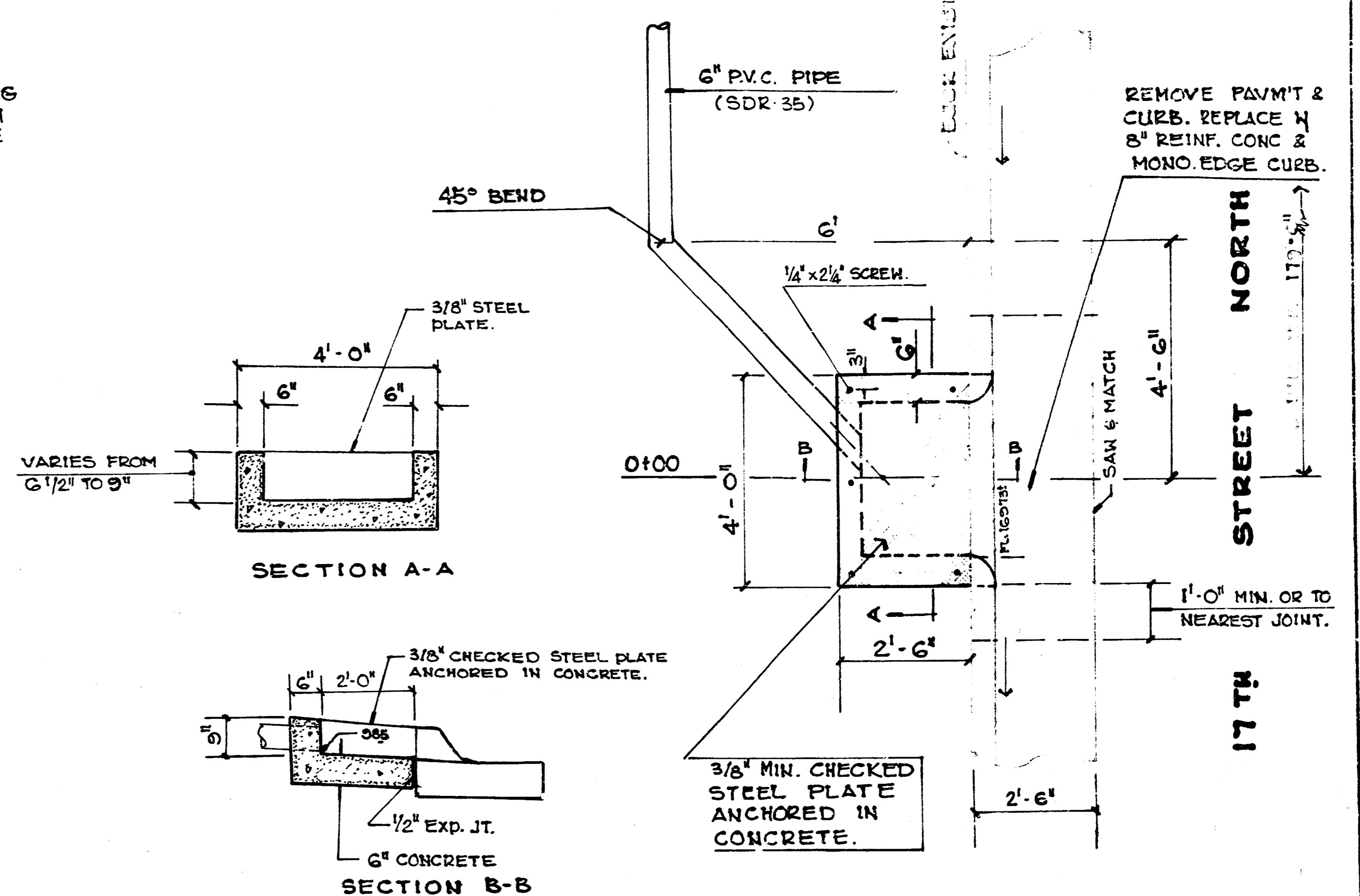
17TH and HILLSIDE DRAINAGE (W.S.U.)
PROJ. No. 812-70-245-50701-350-013-000



17TH and HILLSIDE DRAINAGE (W.S.U.)
 PROJ. No. 872-70-245-50707-350-013-000



NOTE: 6" x 12" W4 x W4 WIRE MESH REINFORCING SHALL BE PLACED SUCH THAT THE WIRES WITH THE 6" SPACING WILL RUN PARALLEL WITH THE LONGITUDINAL JOINT.



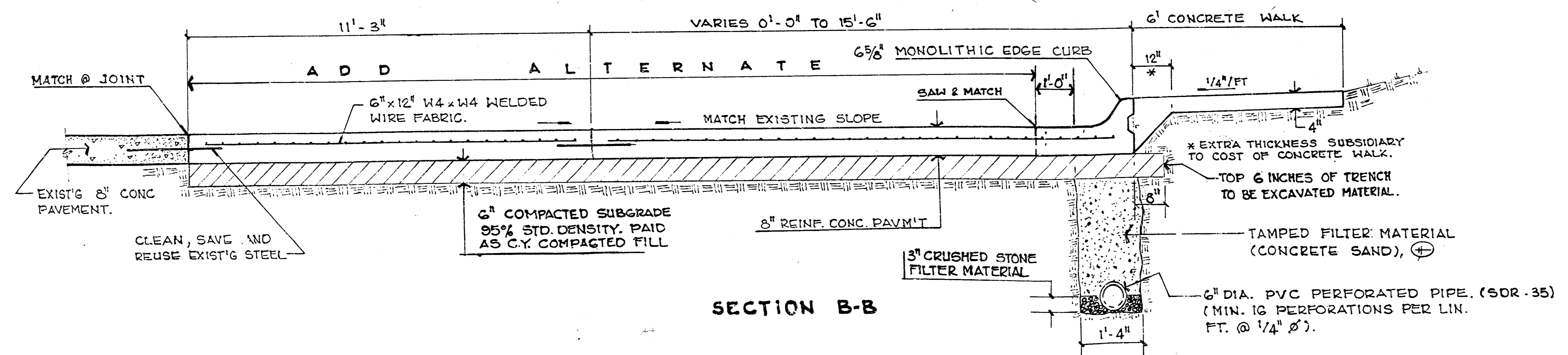
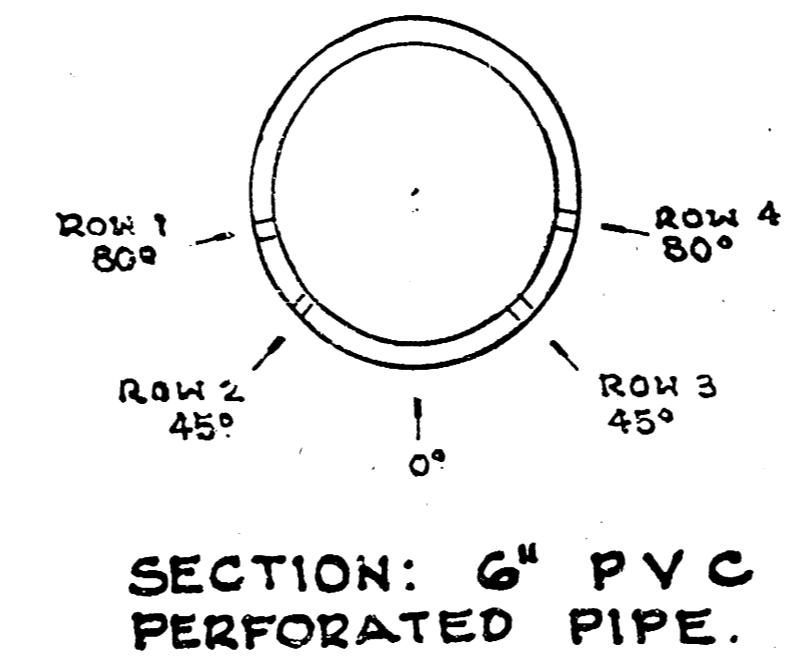
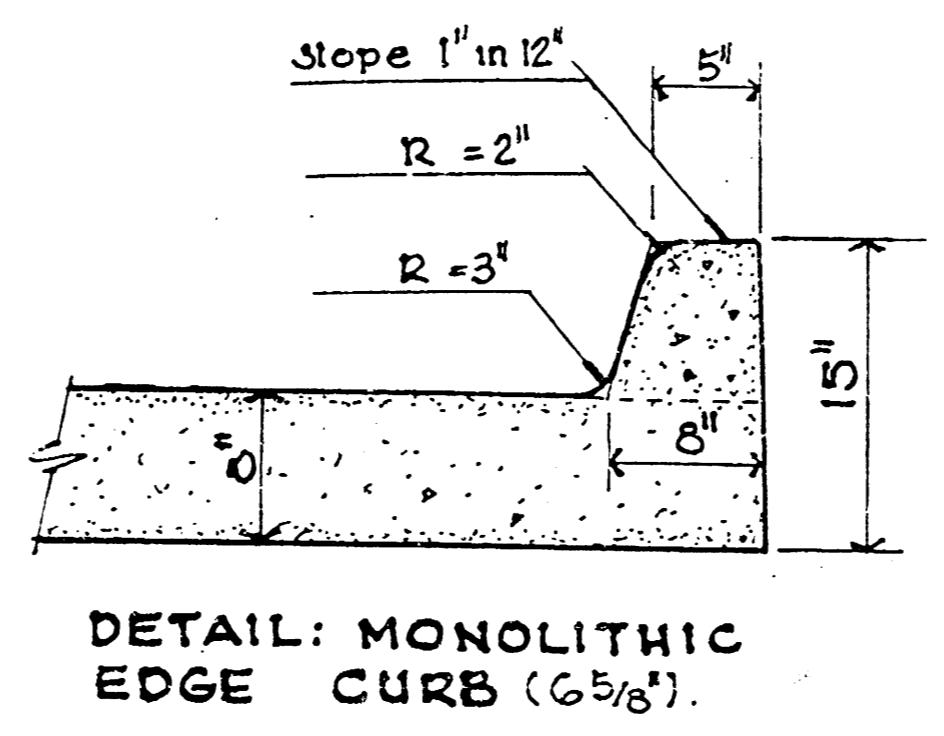
SIZE OF CRUSHED STONE FILTER MATERIAL

STANDARD ASTM SIEVE	PERCENT
PASSING A 1" SIEVE	100
PASSING A 3/4" SIEVE	95 - 100
PASSING A 3/8" SIEVE	40 - 60
PASSING A No. 8	0 - 5

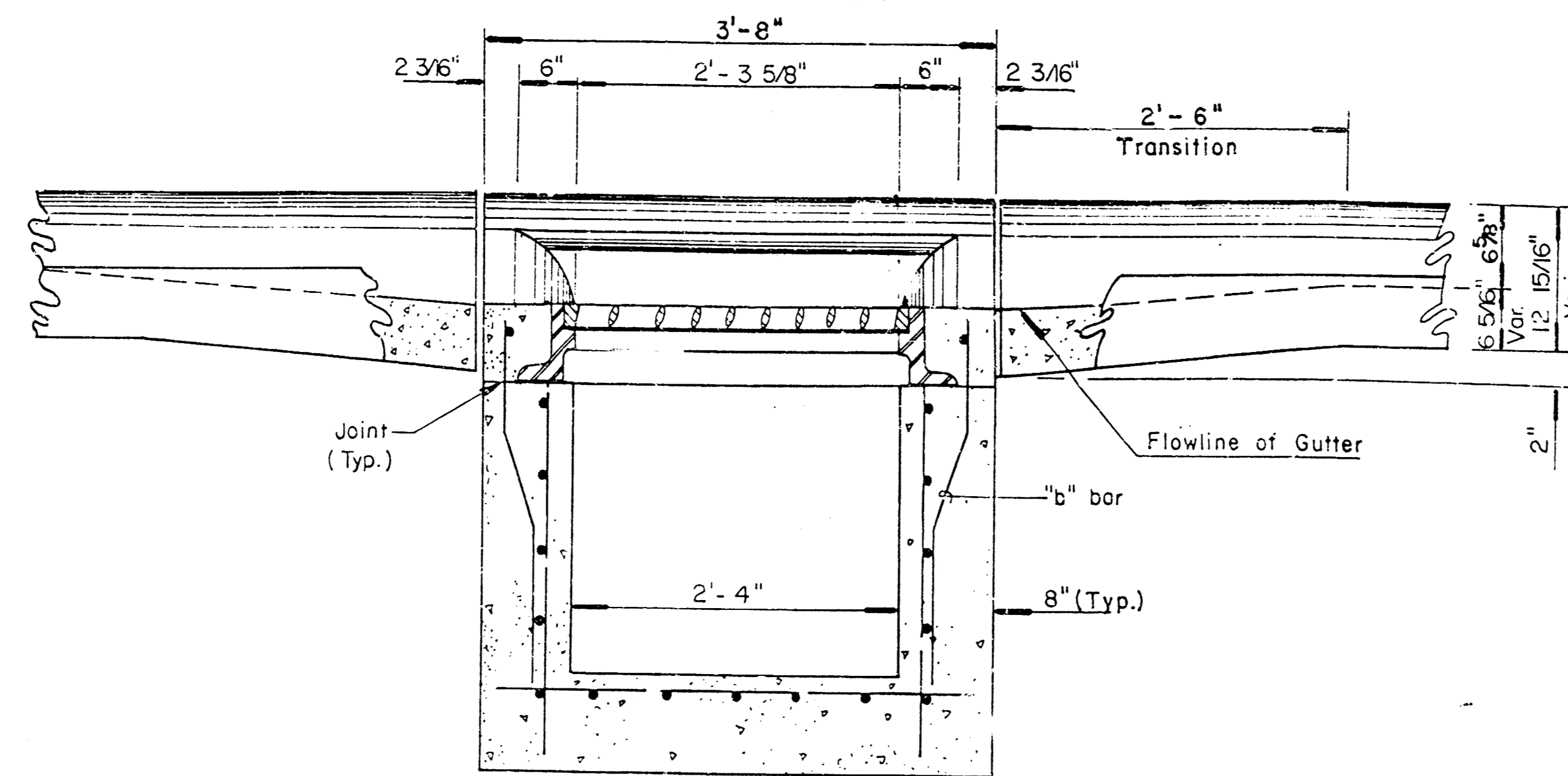
NOTE: FILTER MATERIAL SHALL BE CONCRETE SAND MEETING THE FOLLOWING STANDARD ASTM GRADATION LIMITS.

SIZE OF FILTER MATERIAL FOR SUBDRAIN

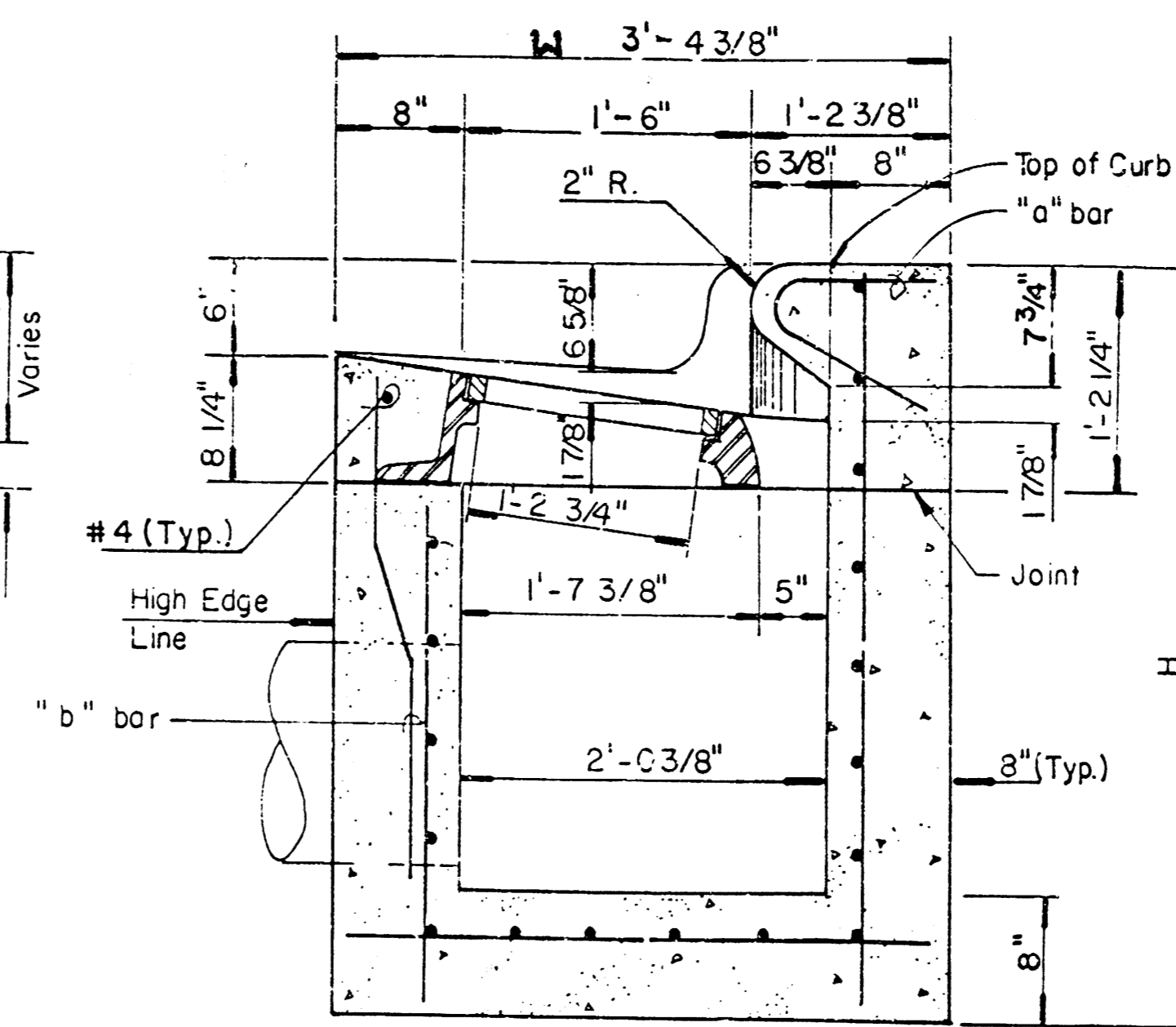
STANDARD ASTM SIEVE	PERCENT
PASSING A 3/8" SIEVE	100
PASSING A No. 4 SIEVE	95 - 100
PASSING A No. 16 SIEVE	45 - 80
PASSING A No. 50 SIEVE	10 - 30
PASSING A No. 100 SIEVE	2 - 10



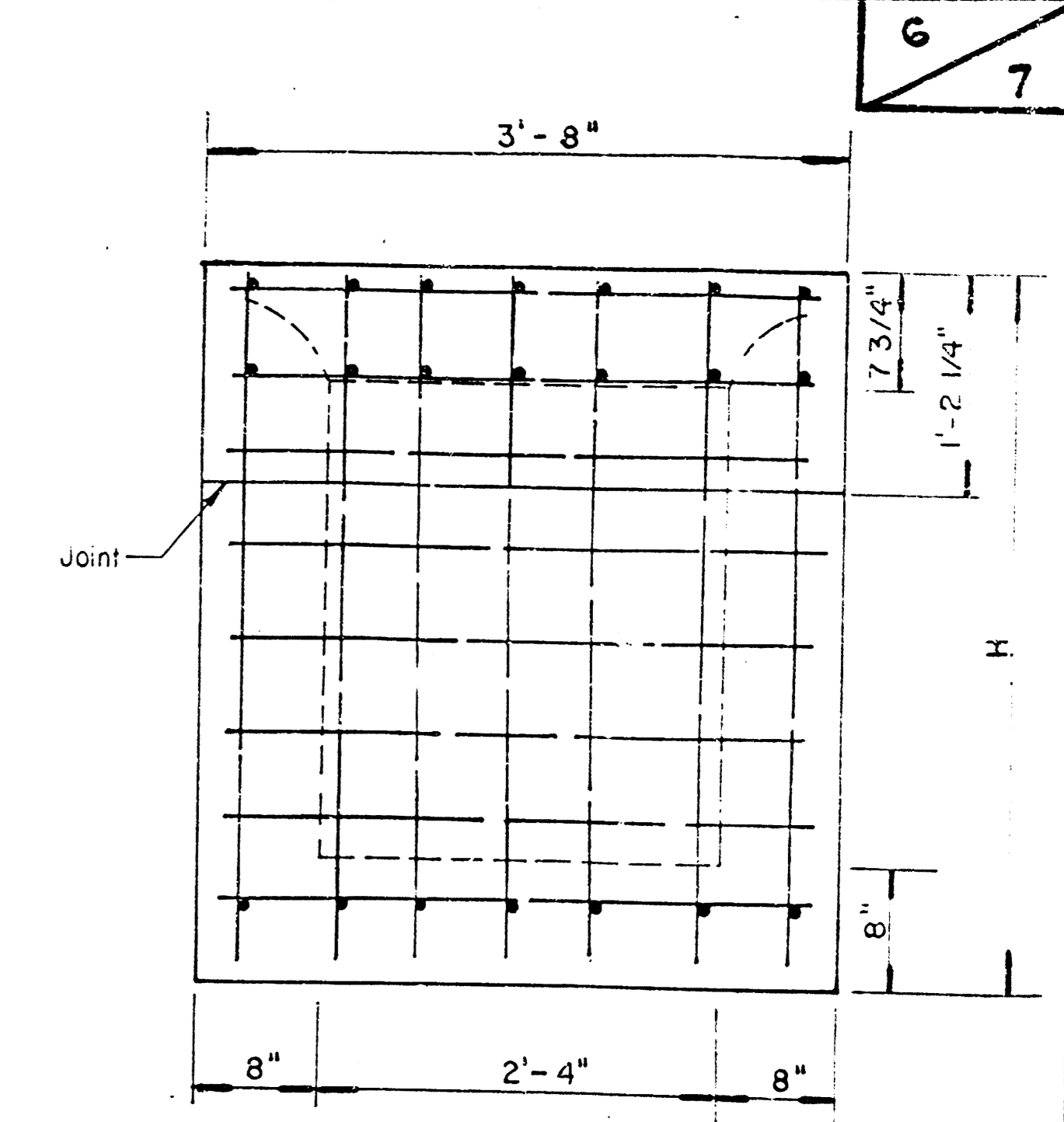
PROJECT DESCRIPTION
HILLSIDE & 17TH STREET N. DRAINAGE (W.S.U)
 PROJECT NUMBER
 872-70-245-50707-350-013-000



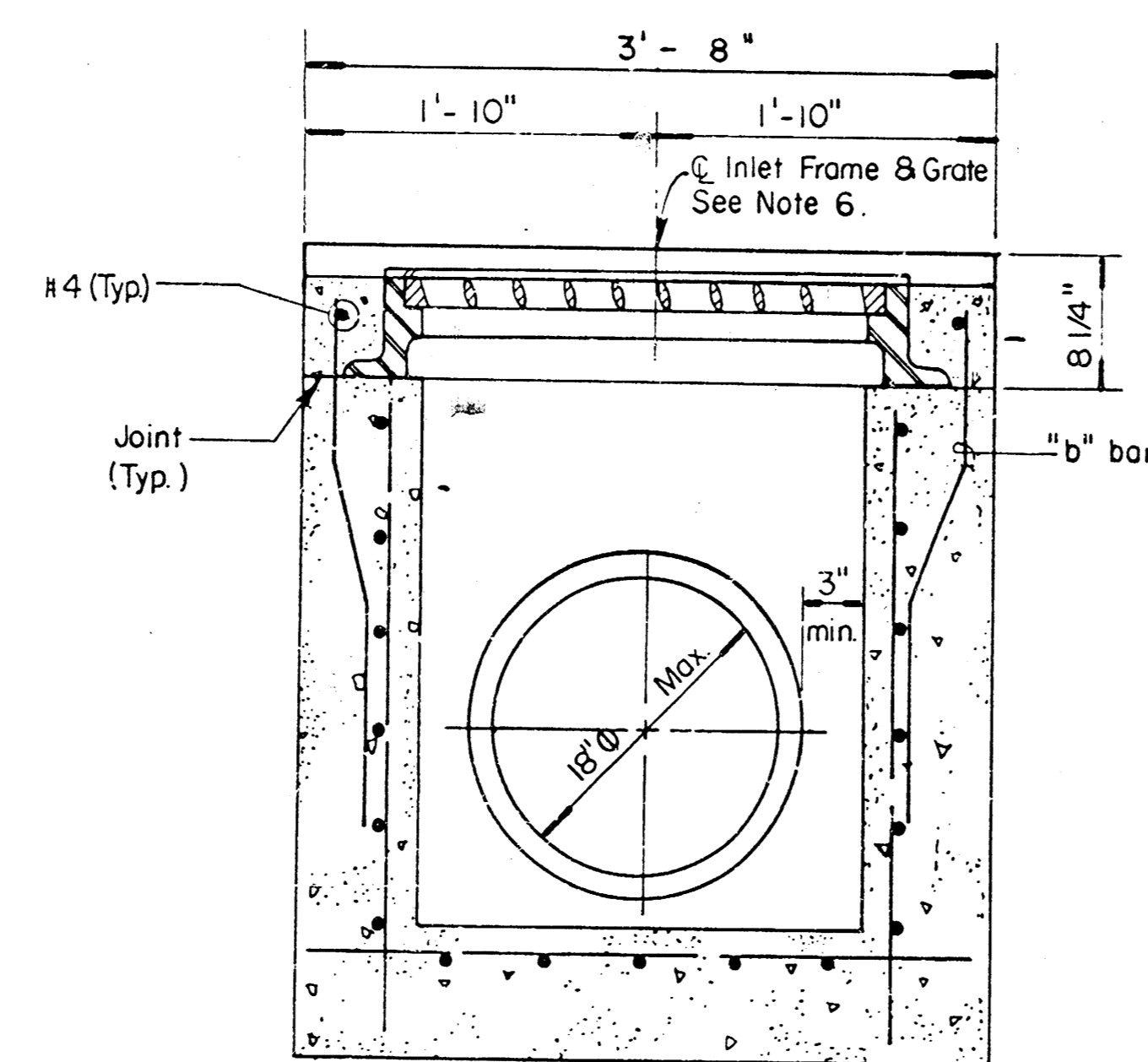
SECTION C-C



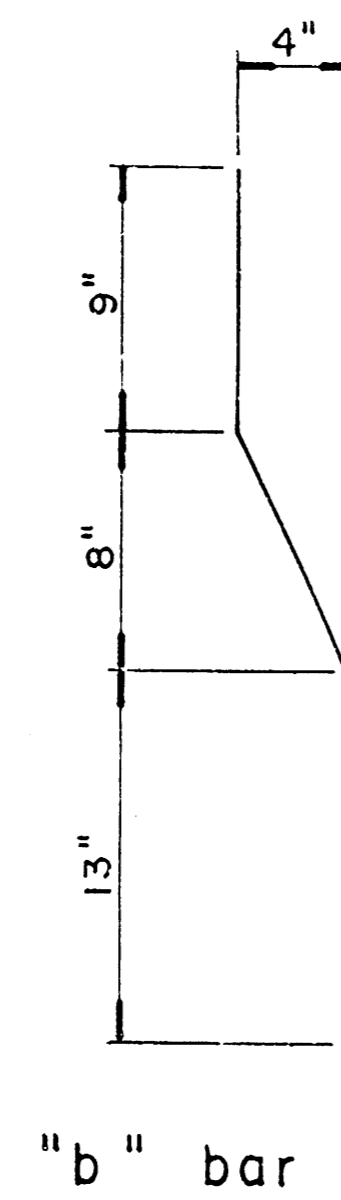
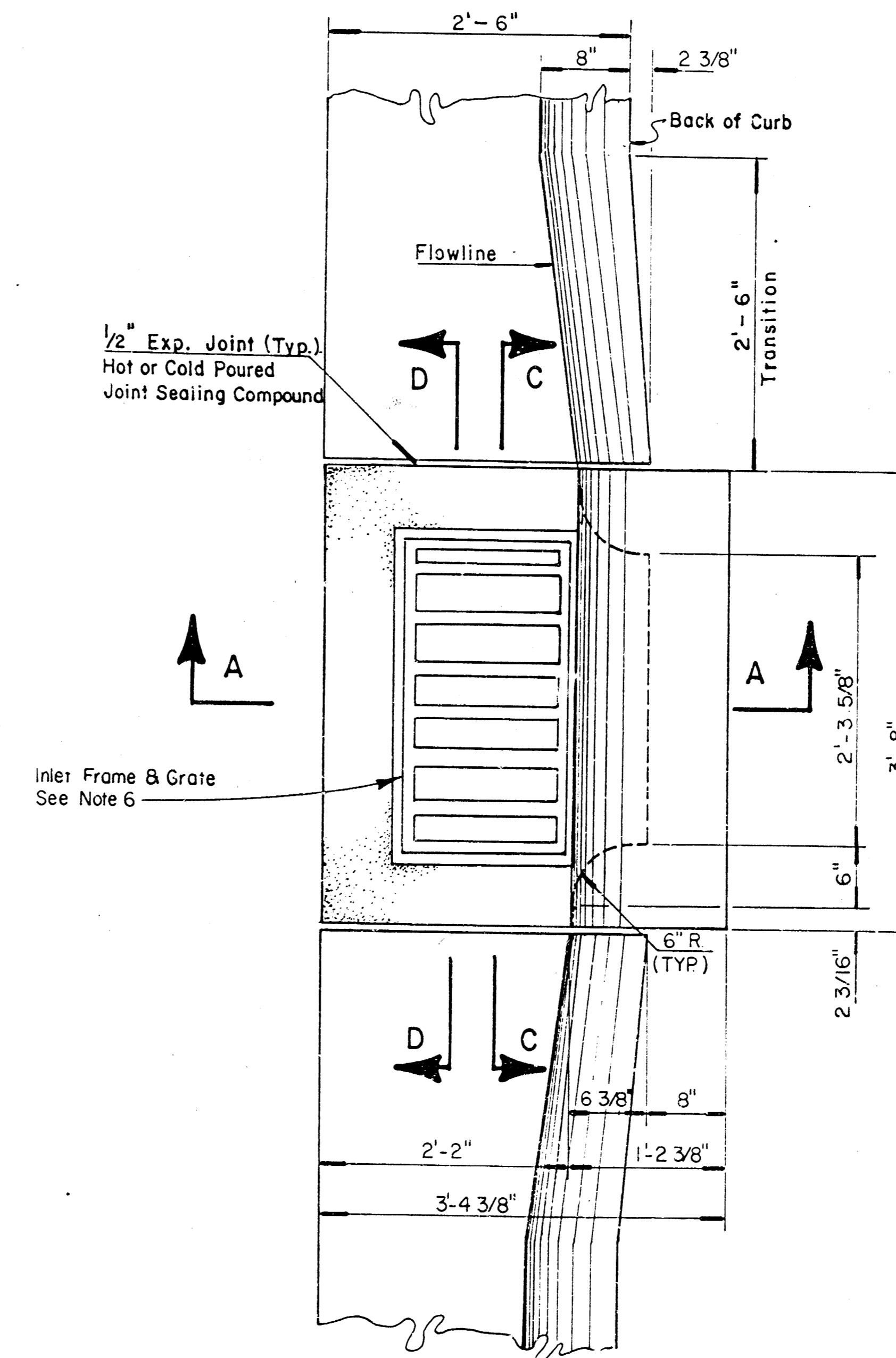
SECTION A-A



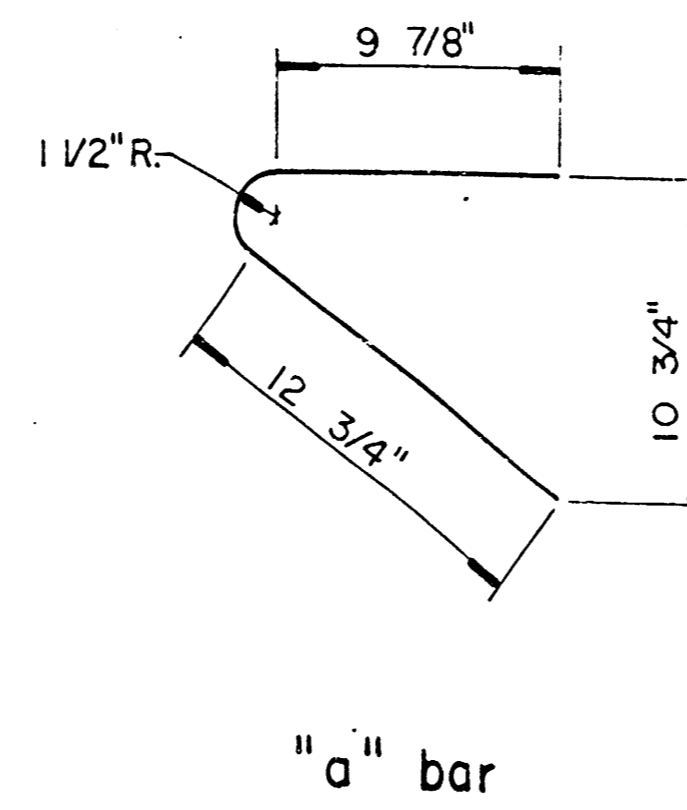
REAR WALL



SECTION D-D



"b" bar



"a" bar

BENDING DIAGRAM

GENERAL NOTES:

1. Use the concrete mix specified for the City of Wichita concrete pavement throughout. All exposed edges shall be finished with an edging tool. Reinforcing bars shall be bent around pipe.
2. Inlet invert shall be shaped with 8 sack 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.
3. All bars are #4 with 6" spacing and shall have a minimum clearance of 1 1/2 inches unless otherwise noted on the plans.
4. When directed by the Engineer, a small opening may be required in the back of the inlet in order to drain a low area. Reinforcing bars will extend through the openings. No deductions in concrete quantities will be made for these openings.
5. No deductions will be made in pay length of curb, gutter, or curb and gutter through the inlet area.
6. Use Neenah R-3289 HW Single Inlet Frame and Grate or approved equal. Inlet frame to be proof load tested to 40,000 lbs on unsupported side.
7. Reinforcing bars shall be cut or bent around pipes. No deduction in concrete quantities shall be made for pipe openings.
8. The vanes of the grate shall be oriented with respect to the flow arrows shown on the plans.

PROJ. NO. 872-70-245-50707-350-013-000

DETAIL STANDARD TYPE II CURB INLET
 CITY OF WICHITA, KANSAS
 INLET OPENING = 6"x2'-3 5/8"
 JANUARY, 1987

