

SHEET NO.	TOTAL SHEETS
1	8

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

STORM WATER SEWER IMPROVEMENTS

INDEX OF SHEETS

1. TITLE SHEET
2. PLAN AND PROFILE - LINE NO. 1
3. PLAN AND PROFILE - LINE NO. 2
4. TEMPORARY CHANNEL PROFILE
5. TYPE 22 CURB INLET DETAILS
6. SEDIMENT AND EROSION CONTROL STANDARD DETAILS
7. SEDIMENT AND EROSION CONTROL STANDARD DETAILS INLET PROTECTION
8. AREA INLET DETAILS

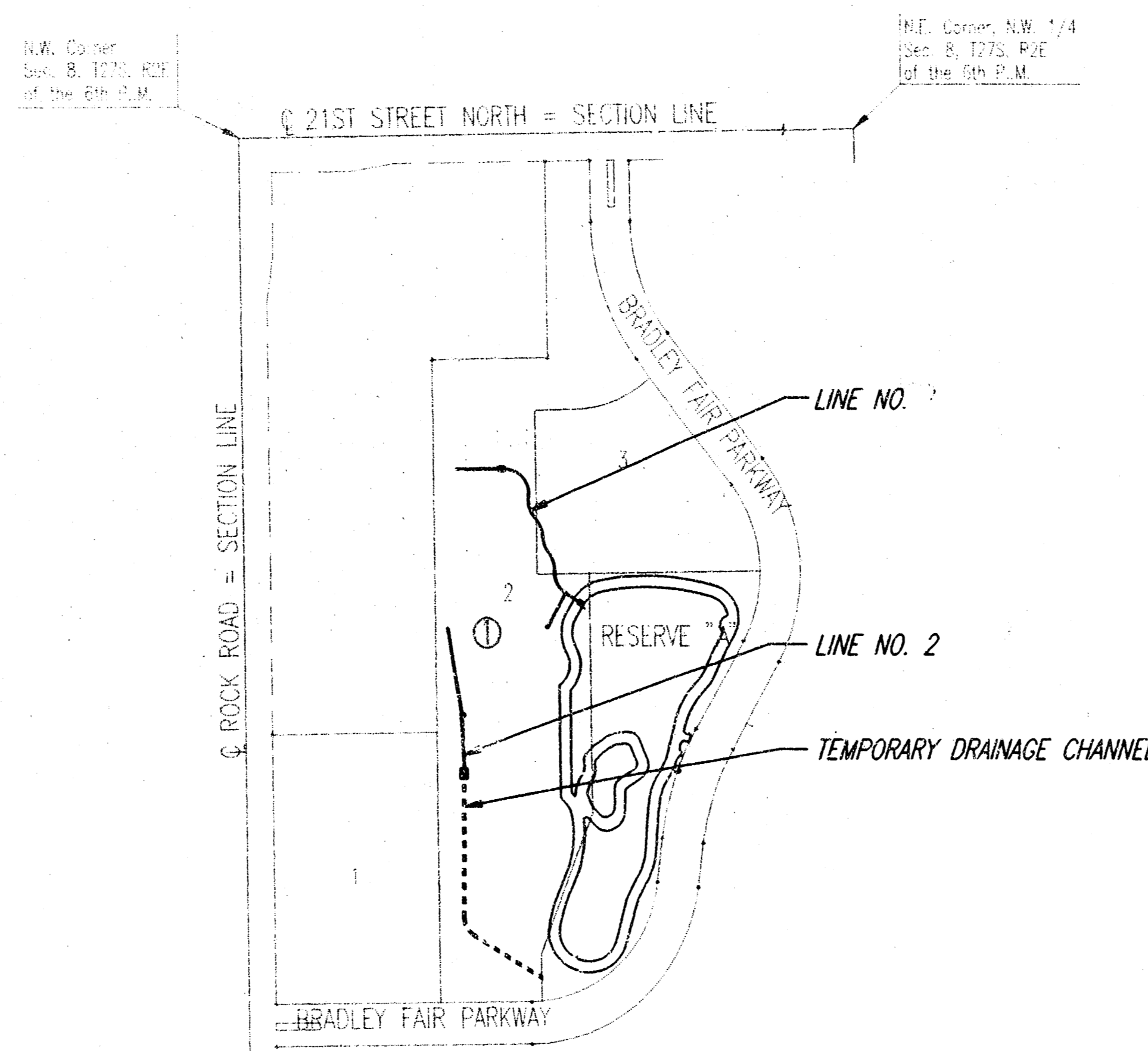
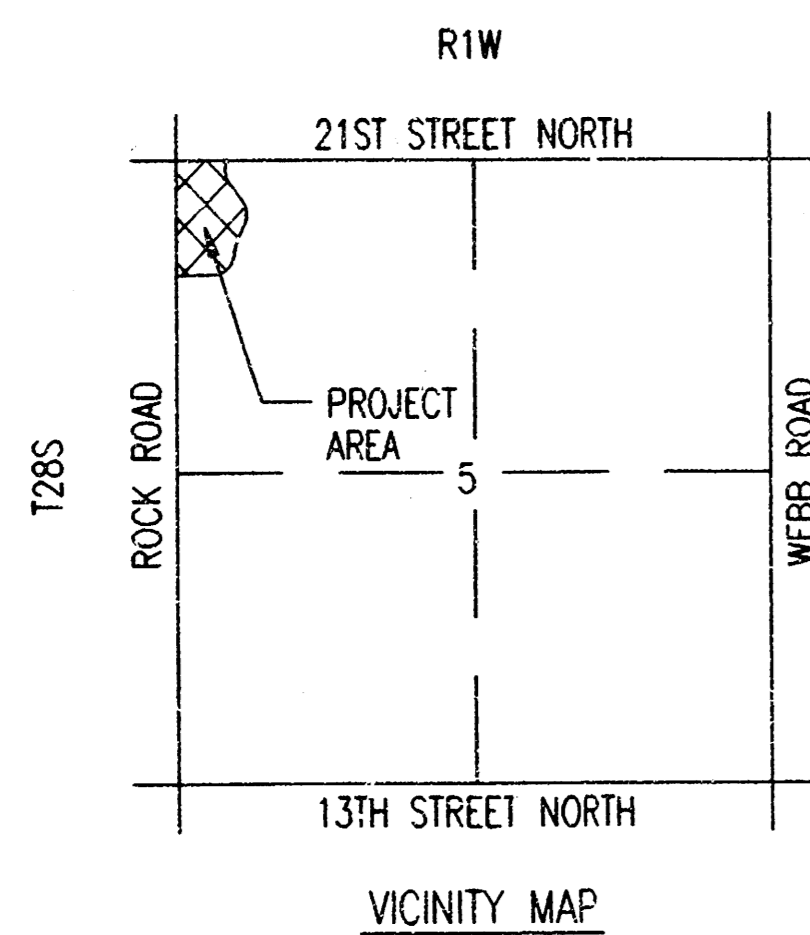
IN BRADLEY FAIR 2ND ADDITION

CITY OF WICHITA PRIVATE PROJECT NO. 693PPS (607861)

PROJECT SURVEY CONTROL

CITY OF WICHITA VERTICAL DATUM

- C.O.W. BM 21: CHIS "d" ON TOP OF CURB, SOUTH CURB RETURN, SOUTH SIDE ROCKHILL RD. WEST SIDE ROCK RD. ELEV= 209.01
- BM 40: CHIS "d" ON TOP OF CURB 70'± SOUTH OF SOUTH-EAST CORNER "OUTBACK STEAKHOUSE", NORTH SIDE LOT 1, BLOCK 1, BRADLEY FAIR 2ND ADDITION. ELEV= 211.62
- BM 41: RAILROAD SPIKE IN WEST FACE 12" ELW, 80' EAST AND 120' NORTH OF NORTHWEST CORNER RESERVE "A", BRADLEY FAIR 2ND ADDITION. ELEV= 204.49



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.

TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

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 ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

EXCESS EXCAVATED MATERIAL AND EXCESS TOPSOIL SHALL BE STOCKPILED OR WASTED WITHIN THE FLAT LIMITS. THE CONTRACTOR SHALL CONTACT THE OWNER'S ENGINEER AT 262-2691 FOR INFORMATION PERTAINING TO THE ACCEPTABLE LOCATIONS FOR THE DISPOSITION OF EXCESS MATERIAL. WASTE MATERIAL SHALL BE GRADED SMOOTH AND SLOPED TO DRAIN. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.

CONTRACTOR SHALL PROVIDE A MINIMUM FORTY-EIGHT (48) HOUR ADVANCE NOTICE (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO BEGINNING ANY EXCAVATION TO KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ALL EXISTING LINES WITHIN THE PROJECT AREA: K.G.B.E. GAS, PEOPLES NATURAL GAS, K.C.B.E. ELECTRIC, SOUTHWESTERN BELL TELEPHONE, MULTIMEDIA CABLEVISION, CITY OF WICHITA SEWER MAINTENANCE AND CITY OF WICHITA WATER DEPARTMENT.

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 IN ACCORDANCE WITH STATE LAWS.

THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL ADJUST WATER VALVE BOXES AS DIRECTED BY THE ENGINEER. THIS WORK TO BE SUBSIDIARY TO OTHER BID ITEMS.

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



APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

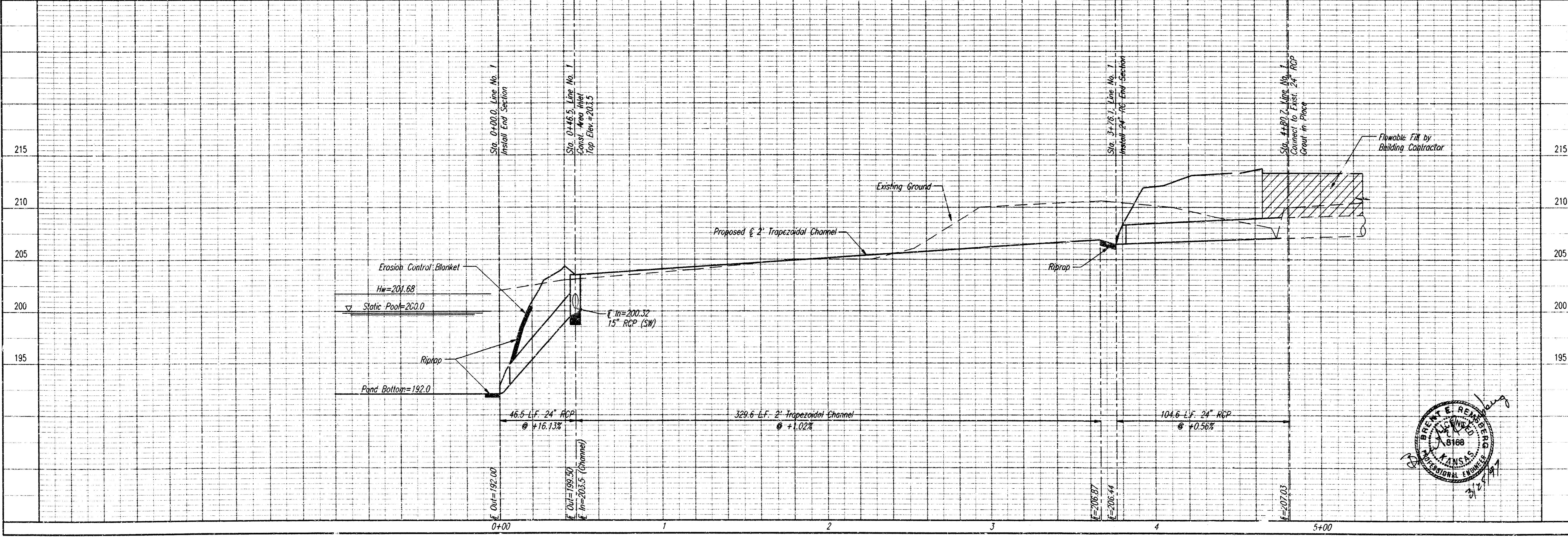
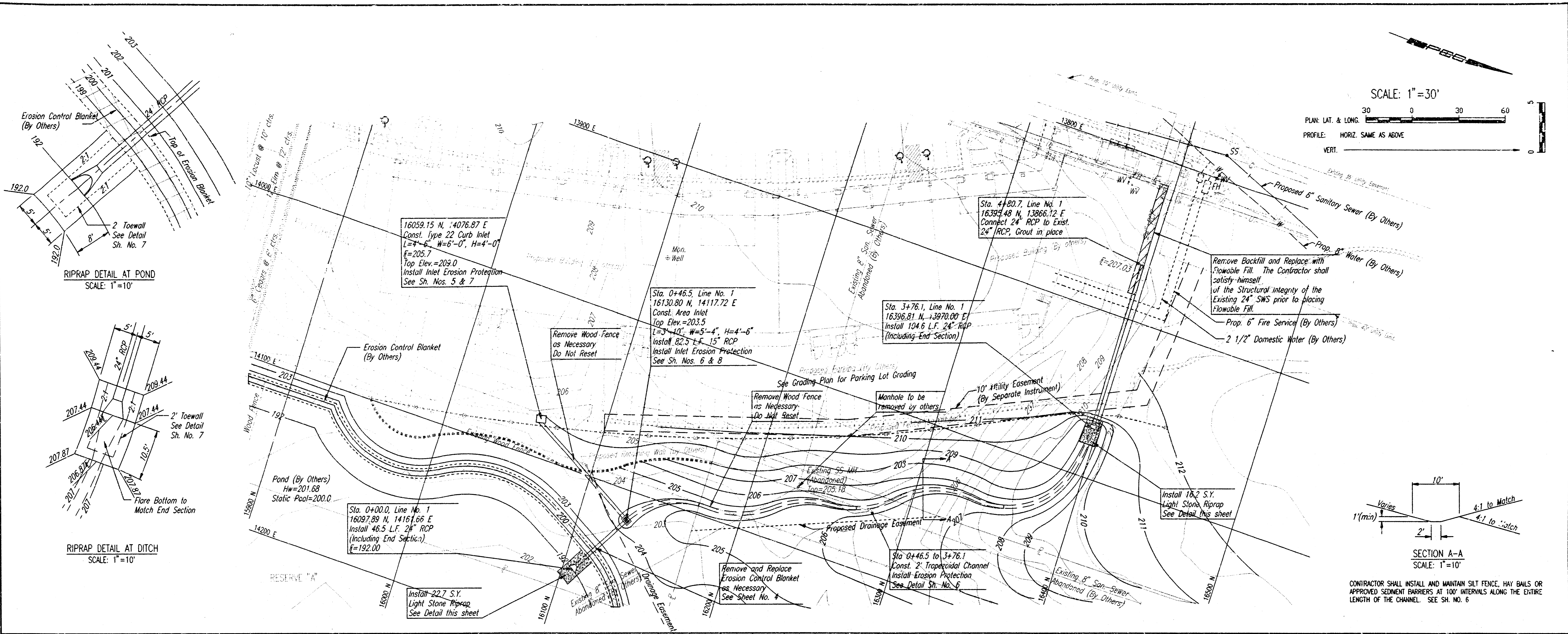
NOTE TO CONTRACTOR

- SANITARY SEWERS _____
- STORM SEWERS Jim Roth
- DRIVEWAY APPROACHES _____
- WATER MAINS _____
- PAVING _____

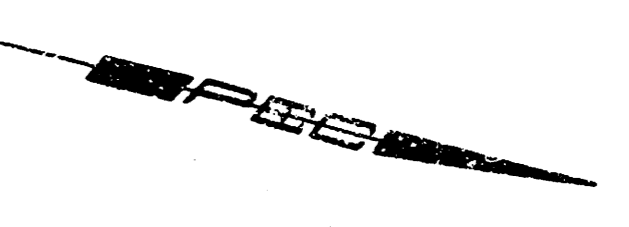
INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

MARCH, 1997

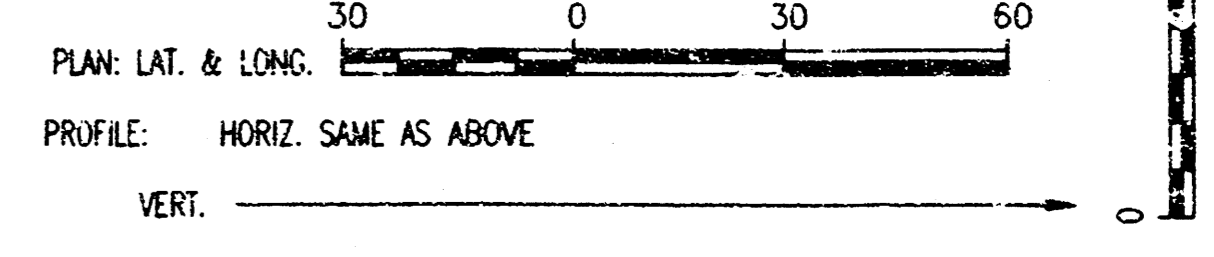
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



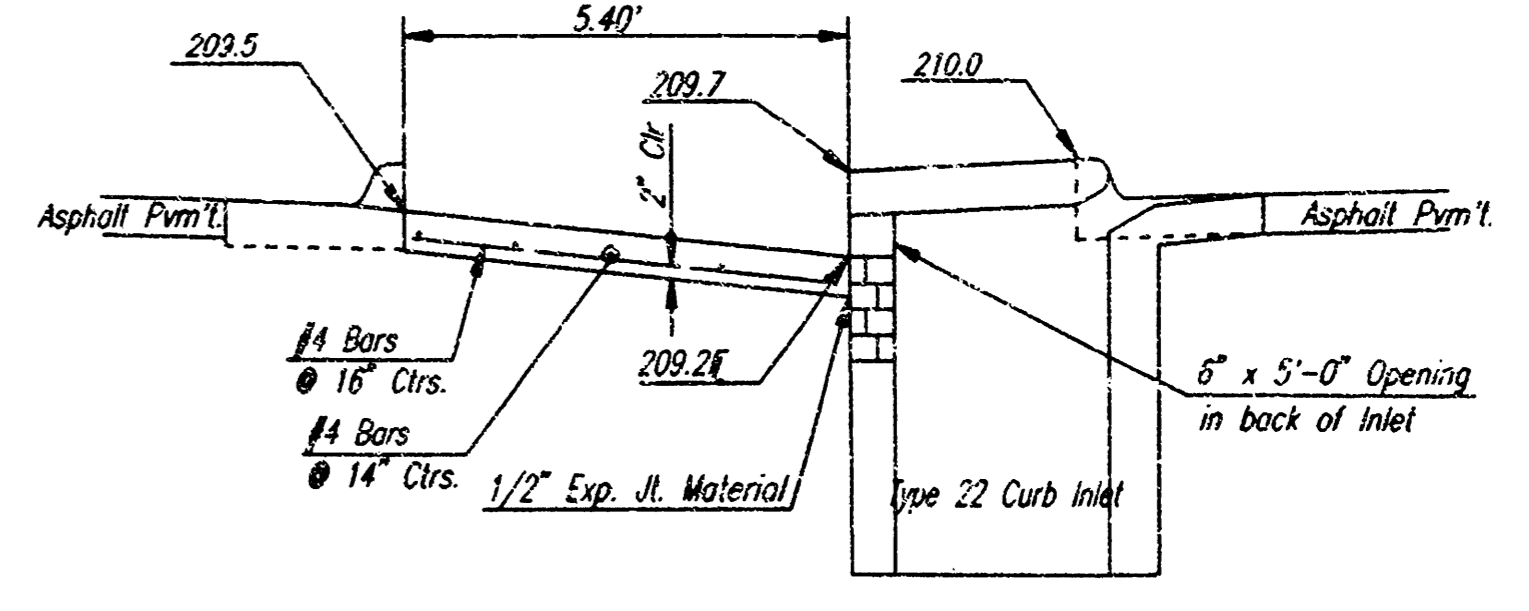
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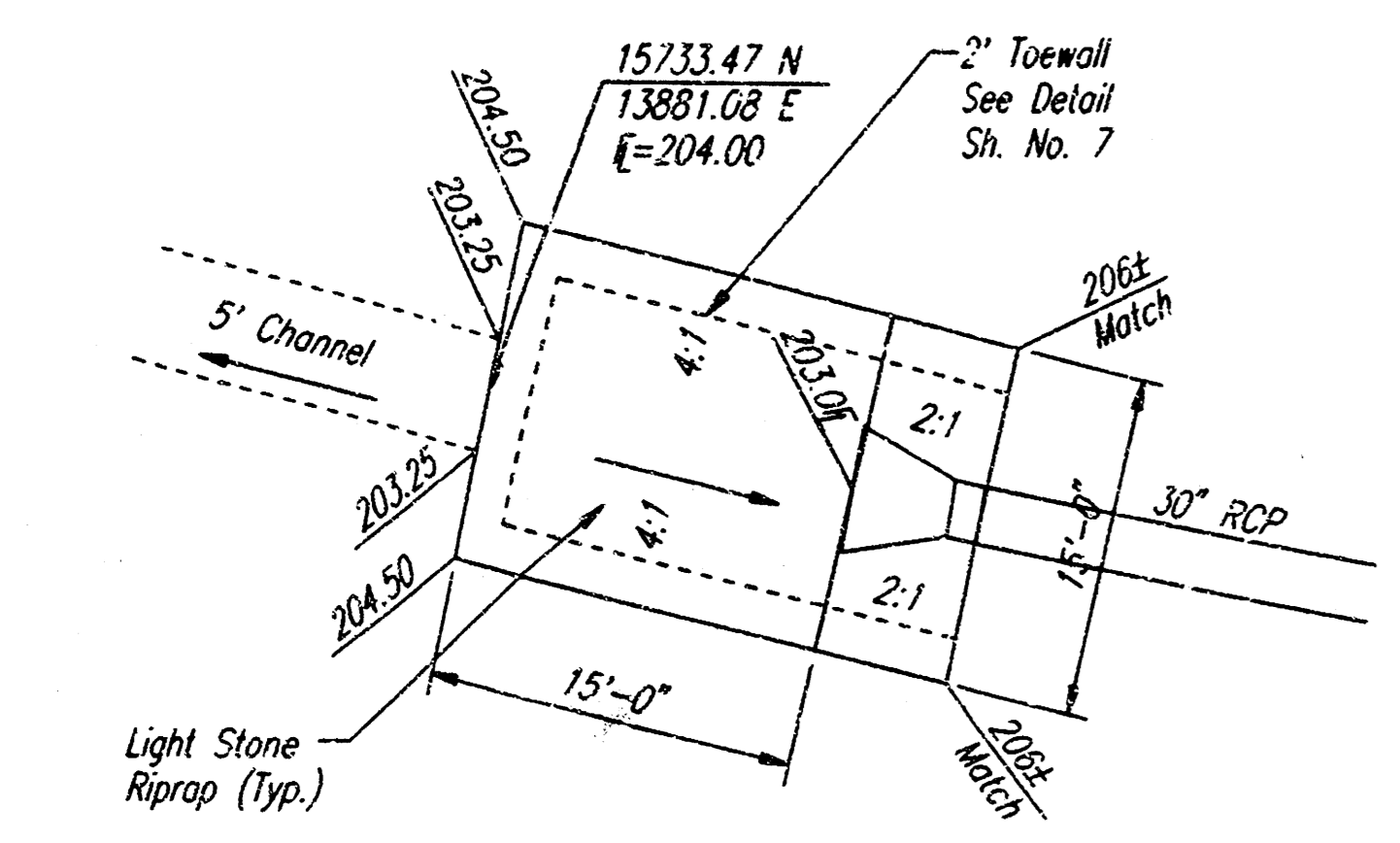
SCALE: 1"=30'



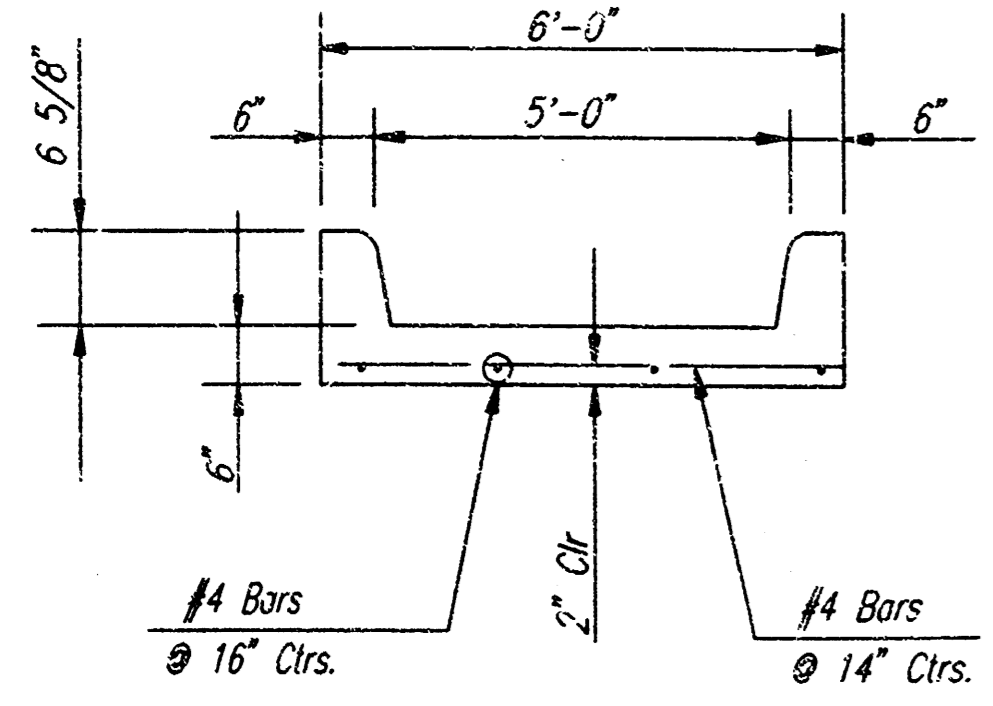
* Contractor shall support electric and telephone cables to protect from damage during construction.



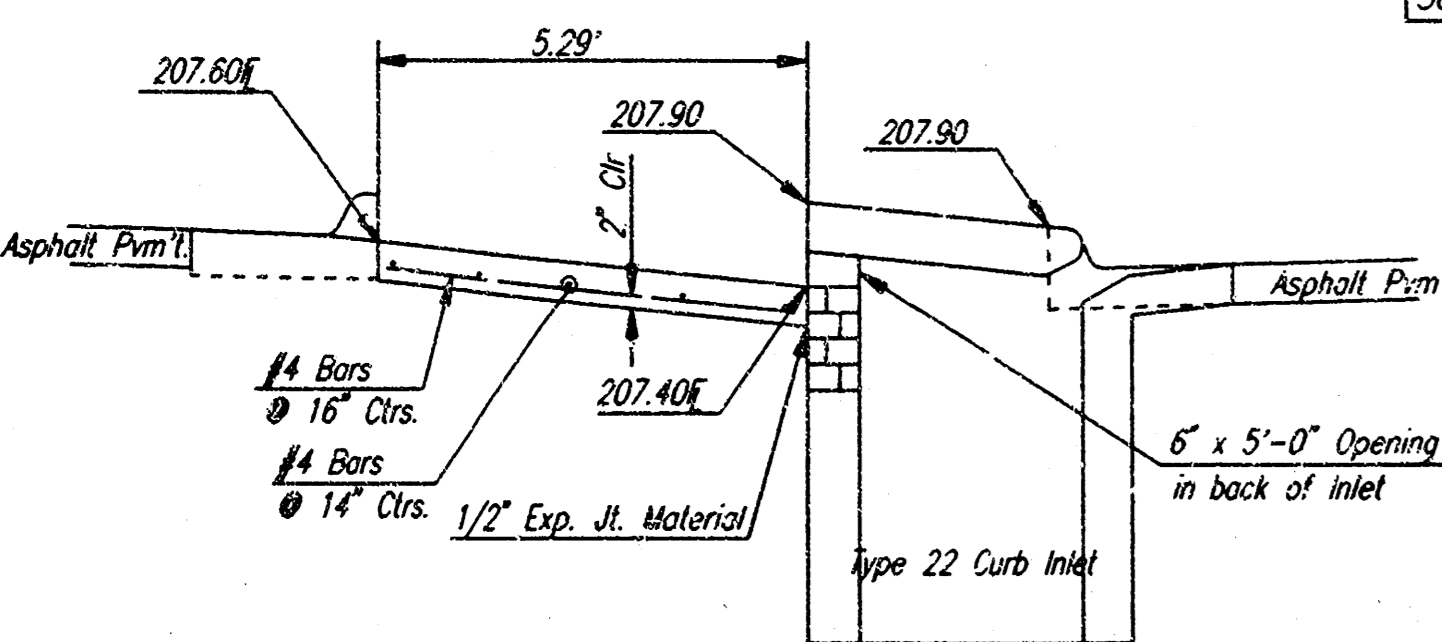
SECTION C-C
NO SCALE
CONCRETE FLUME DETAILS



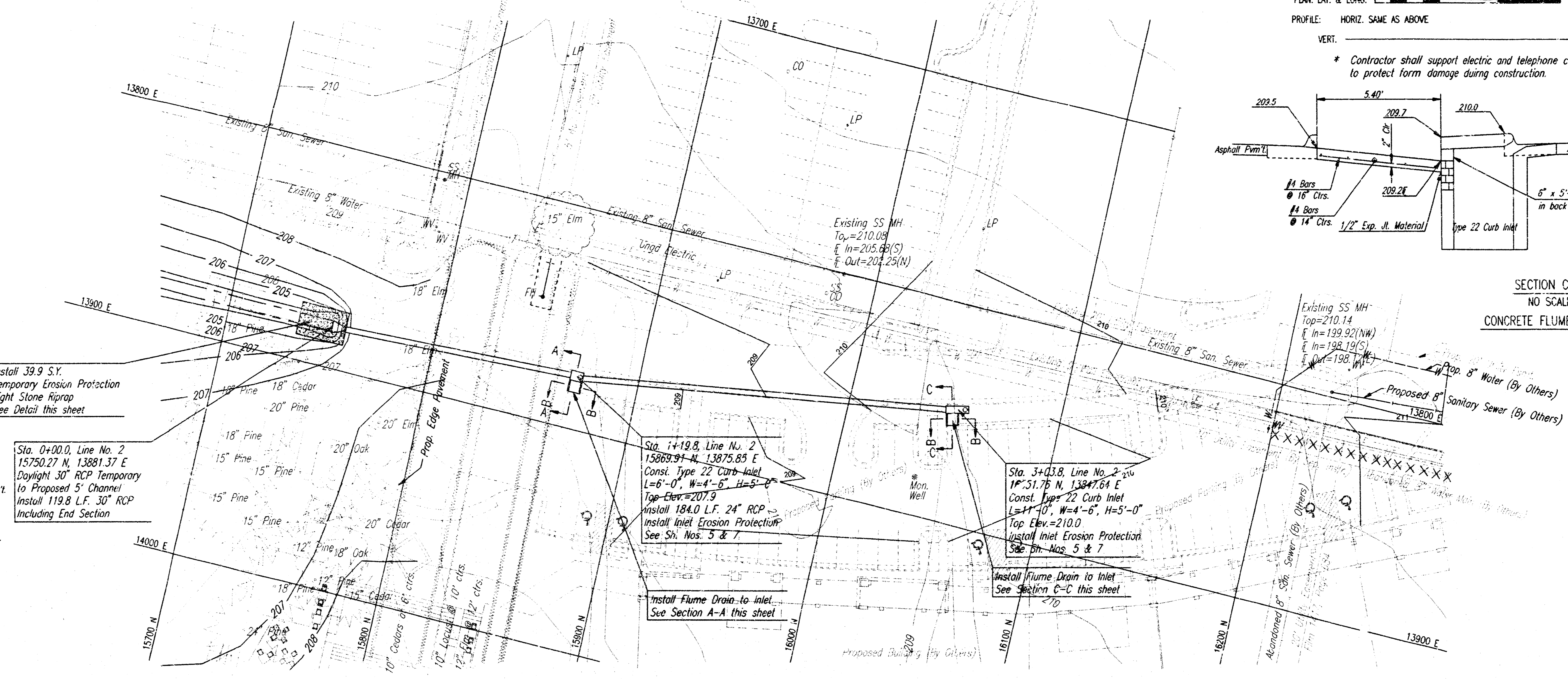
RIPRAP DETAIL
SCALE: 1"=10"



SECTION B-B
NO SCALE



SECTION A-A
NO SCALE
CONCRETE FLUME DETAILS



Install 39.9 S.Y. Temporary Erosion Protection Light Stone Riprap See Detail this sheet

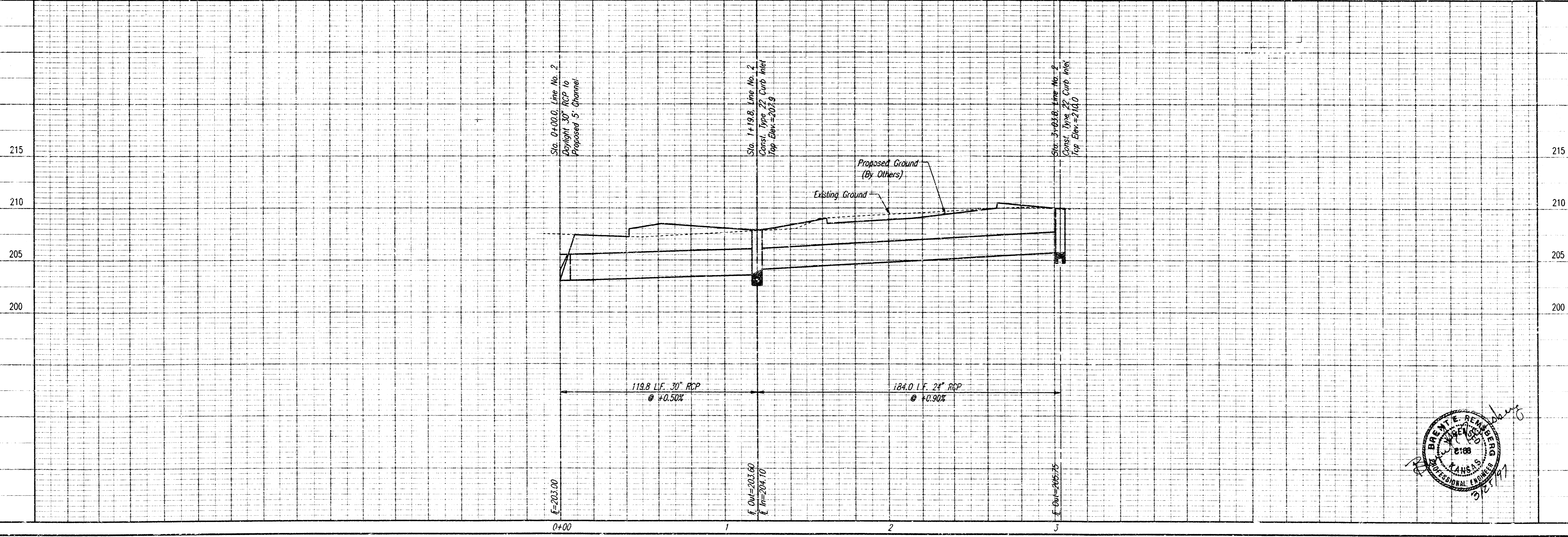
Sta. 0+00.0, Line No. 2
15750.27 N, 13881.37 E
Daylight 30" RCP Temporary to Proposed 5' Channel
Install 119.8 L.F. 30" RCP Including End Section

Sta. 1+19.8, Line No. 2
13869.91 N, 13875.85 E
Const. Type 22 Curb Inlet
L=6'-0", W=4'-6", H=5'-0"
Top Elev.=207.9
Install 184.0 L.F. 24" RCP
Install Inlet Erosion Protection
See Sh. Nos. 5 & 7

Sta. 3+03.8, Line No. 2
1P=51.75 N, 13847.64 E
Const. Type 22 Curb Inlet
L=11'-0", W=4'-6", H=5'-0"
Top Elev.=210.0
Install Inlet Erosion Protection
See Sh. Nos. 5 & 7

Install Flume Drain to Inlet
See Section A-A this sheet

Install Flume Drain to Inlet
See Section C-C this sheet



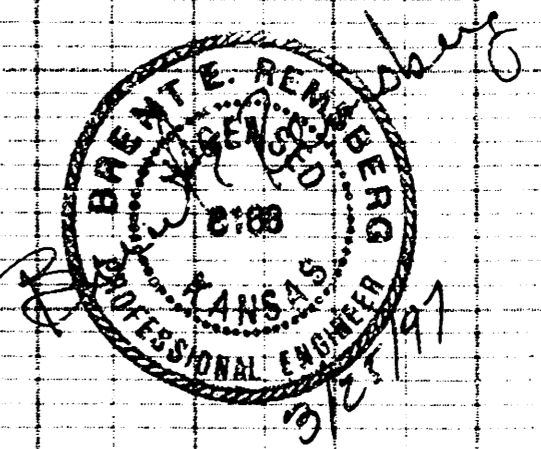
Sta. 0+00.0, Line No. 2
Daylight 30" RCP to Proposed 5' Channel

Sta. 1+19.8, Line No. 2
Const. Type 22 Curb Inlet
Top Elev.=207.9

Sta. 3+03.8, Line No. 2
Const. Type 22 Curb Inlet
Top Elev.=210.0

119.8 L.F. 30" RCP
@ +0.50%

184.0 L.F. 24" RCP
@ +0.90%

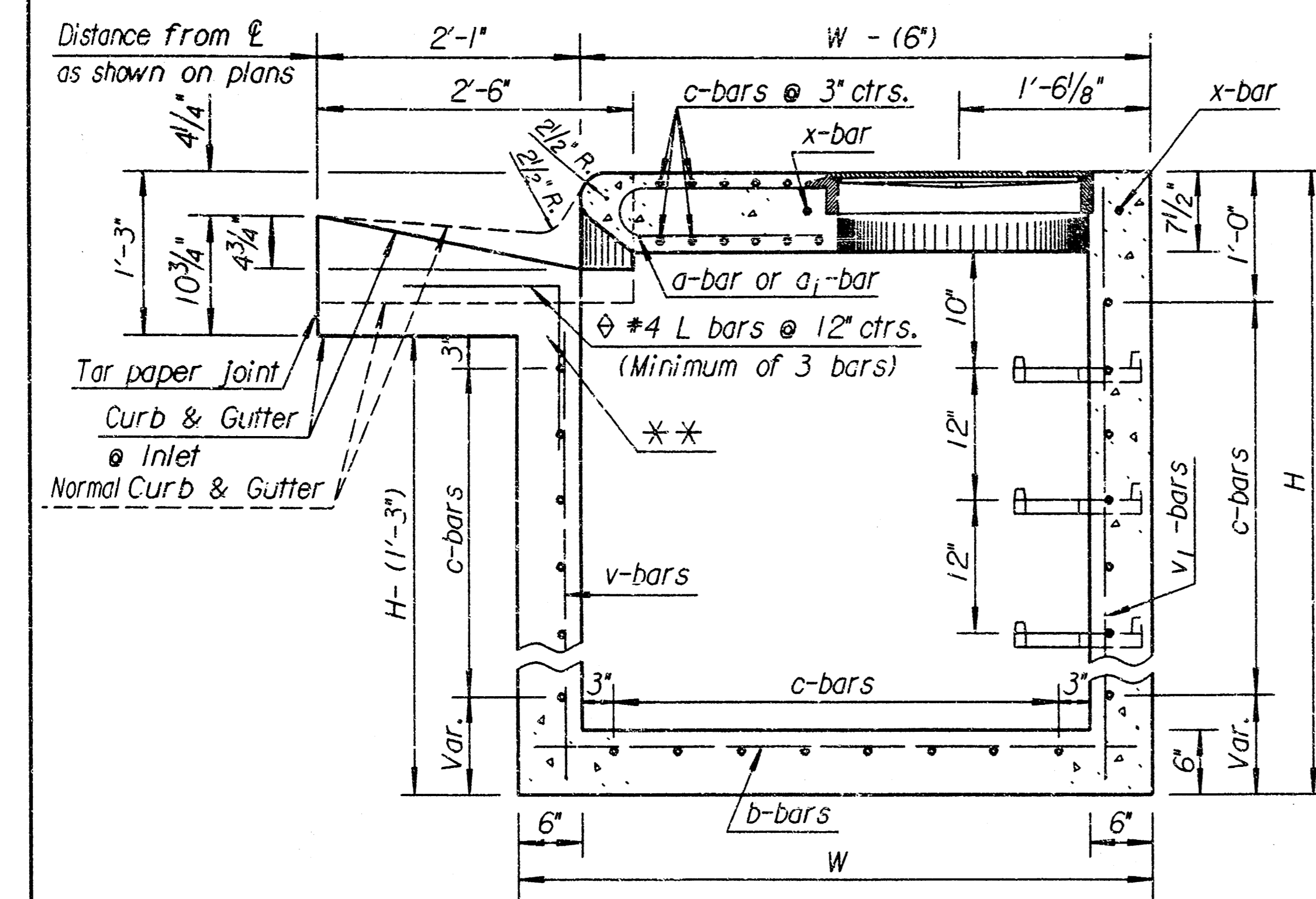


BRADLEY PARK 2ND ADDITION - NORTH SIS
LINE NO. 2
STA. 0+00.0 TO STA. 3+03.8
C/D W PRIVATE PROJ. NO. 8934PIS (607861)

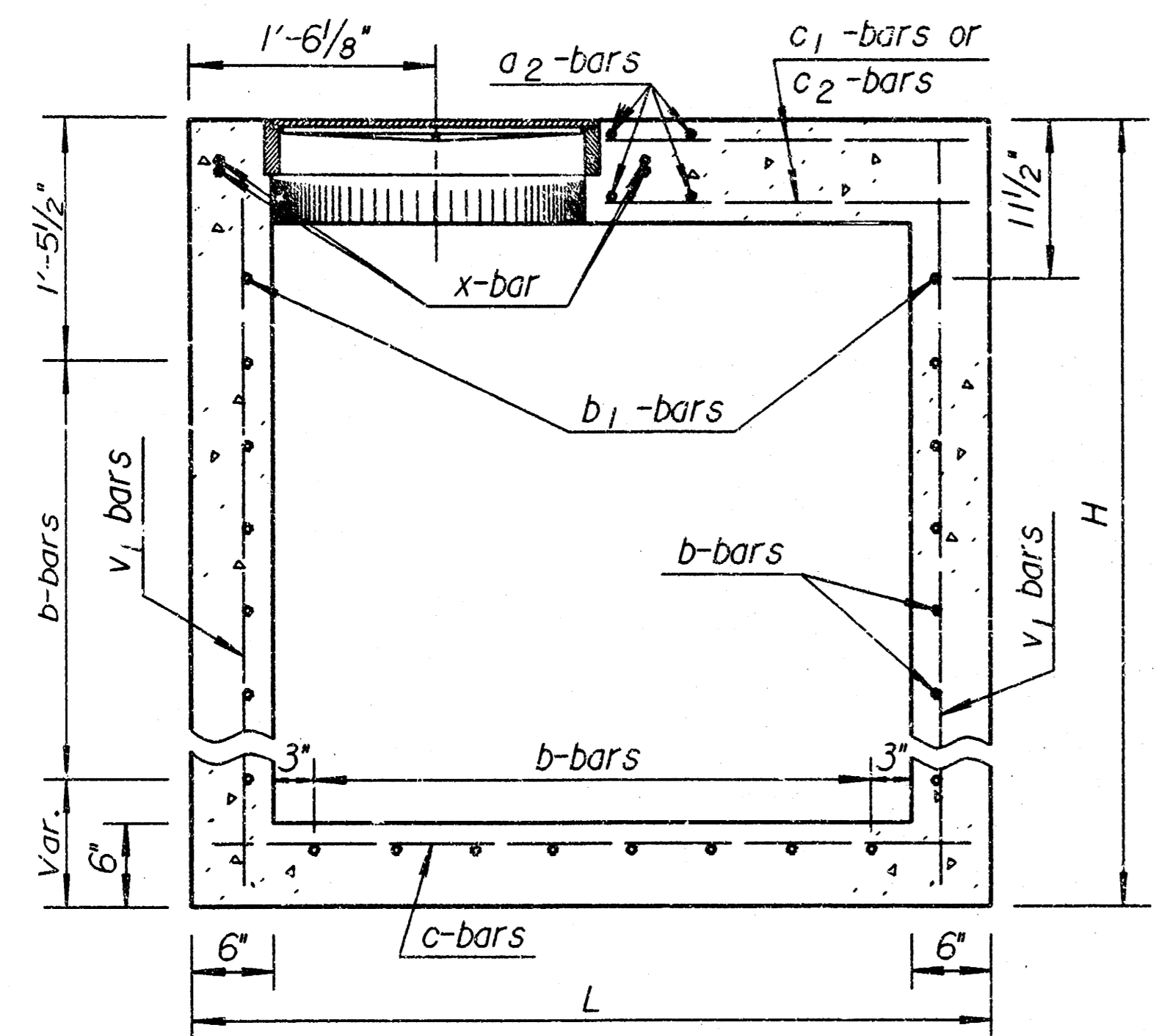
PROFESSIONAL ENGINEERING CONSULTANTS PA
ENGINEERS
WICHITA, KANSAS
Job No. 97038
Date MAR. 1997
Designed by PDM
Drawn by DEF
Sheet 3 of 8

PLANS FROM: C/P: DEP. SCALE: 1"=30.00
D:\1997\3\BRADLEY\CONV\ENGRG-2.DWG 03-25-1997 2:40:23 pm

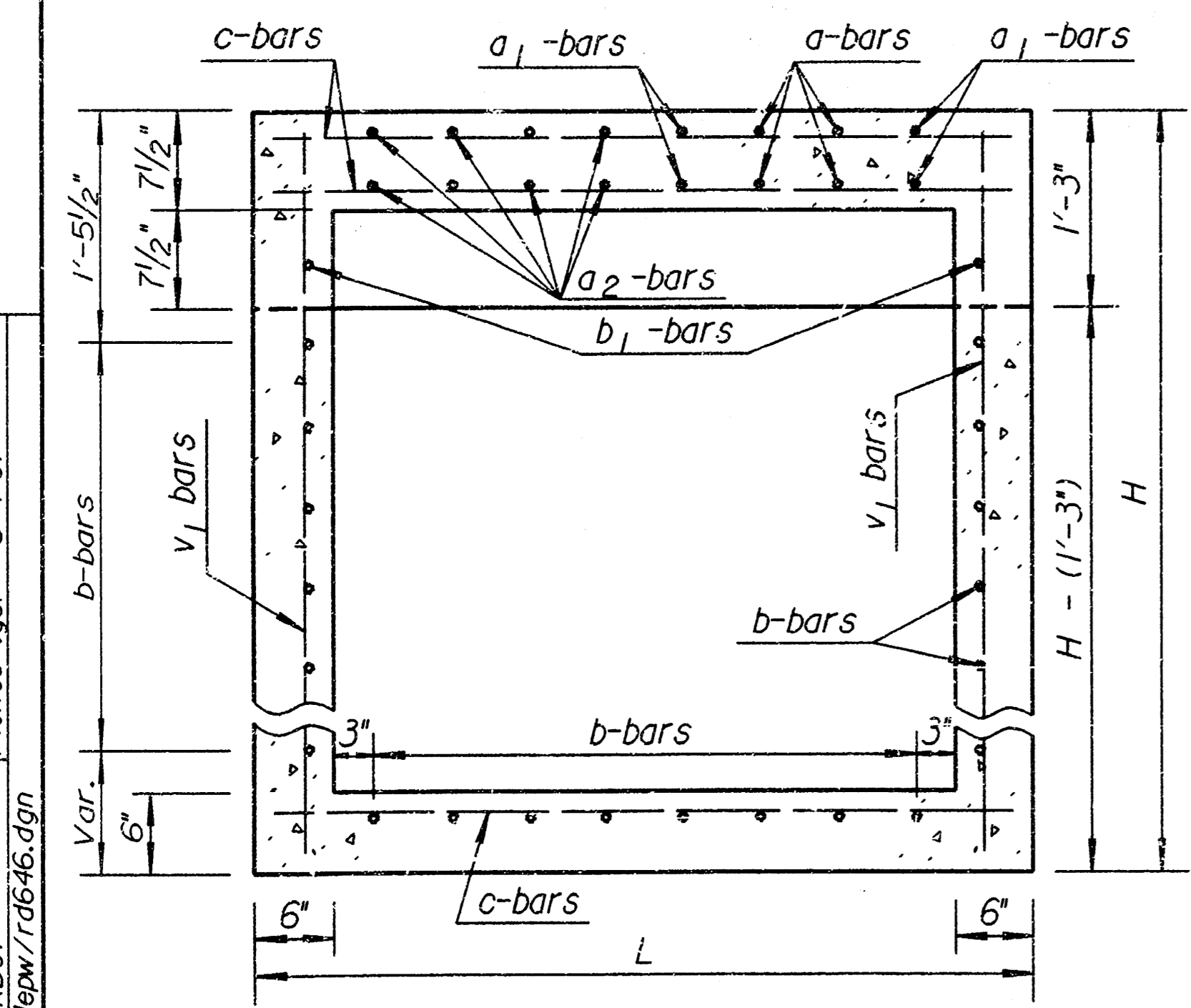
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	663PPS(60786)	1987	5	8



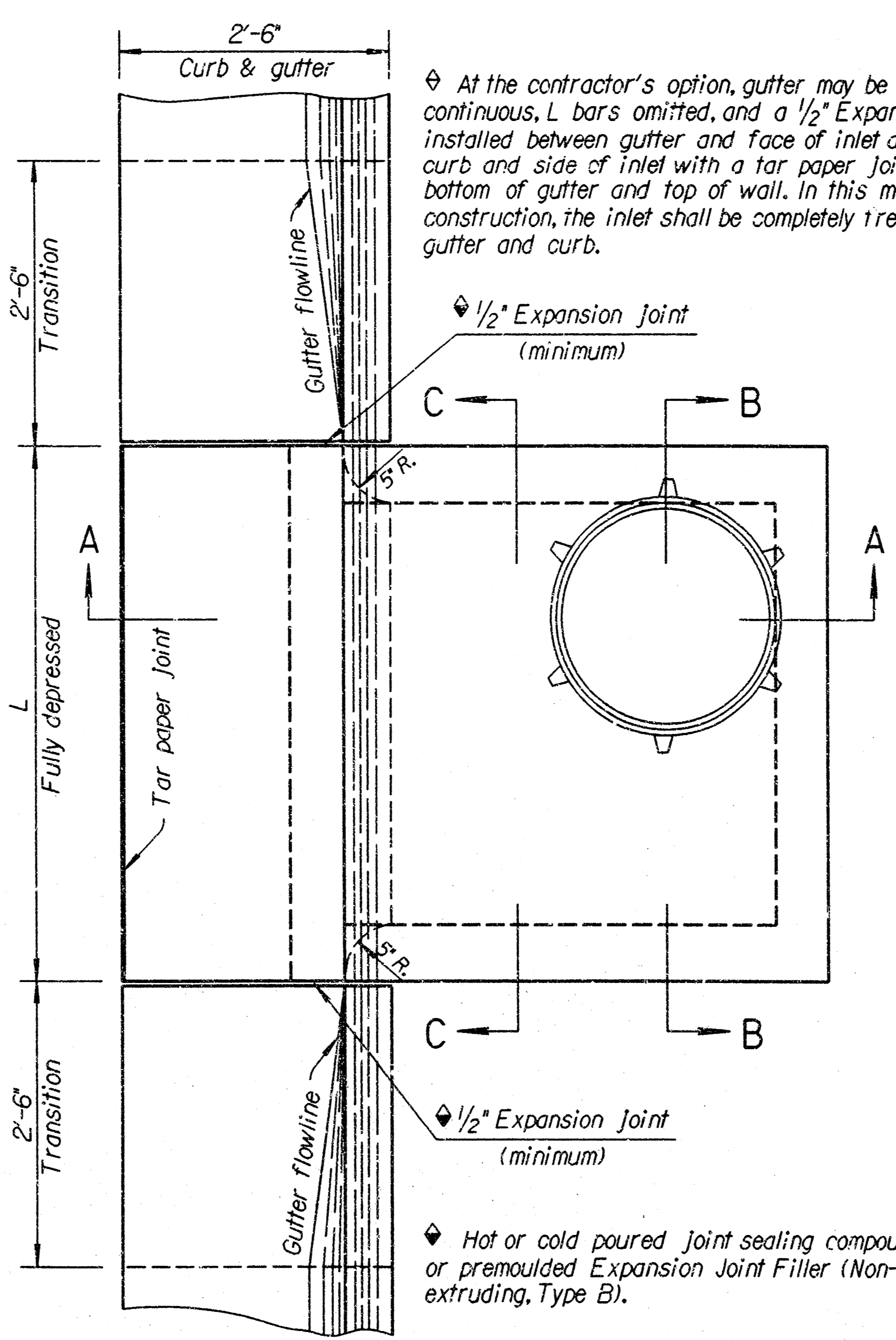
SECTION A-A



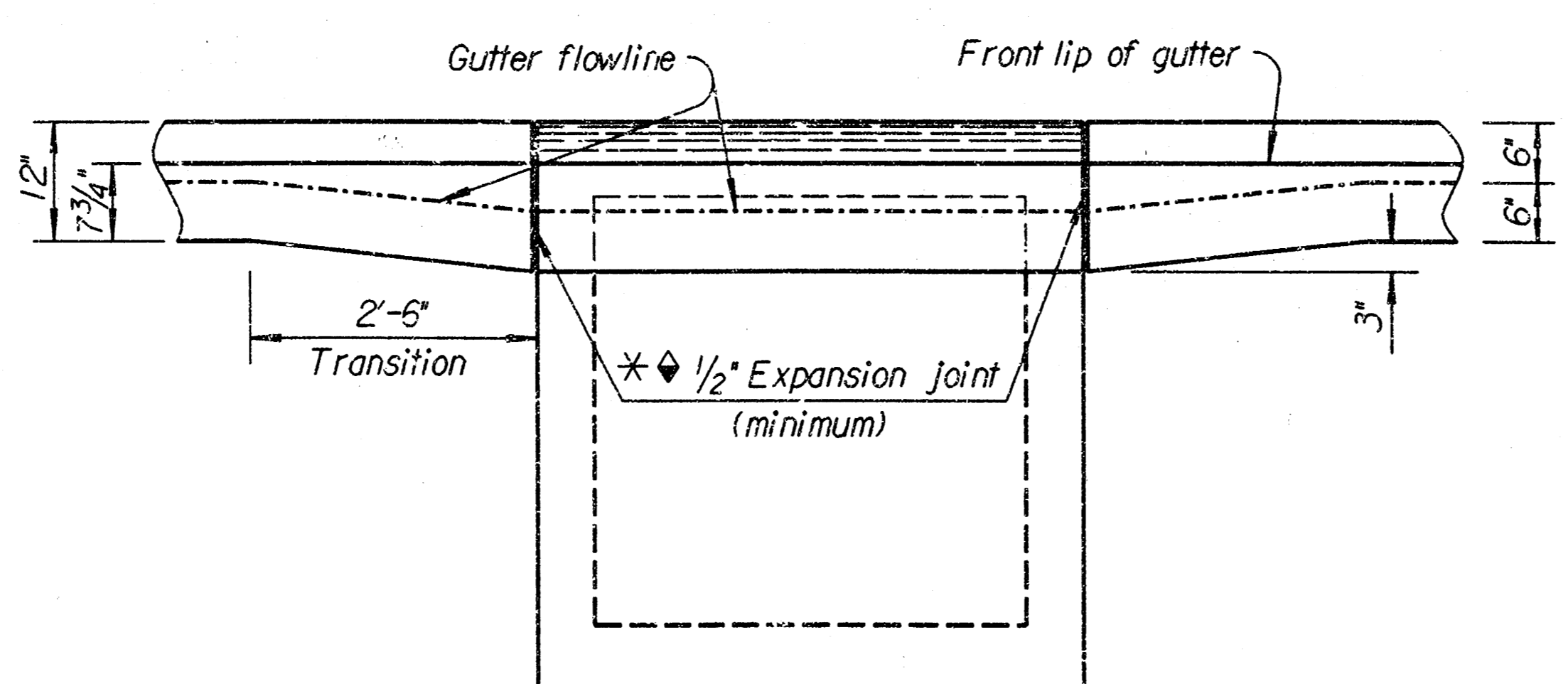
SECTION B-B



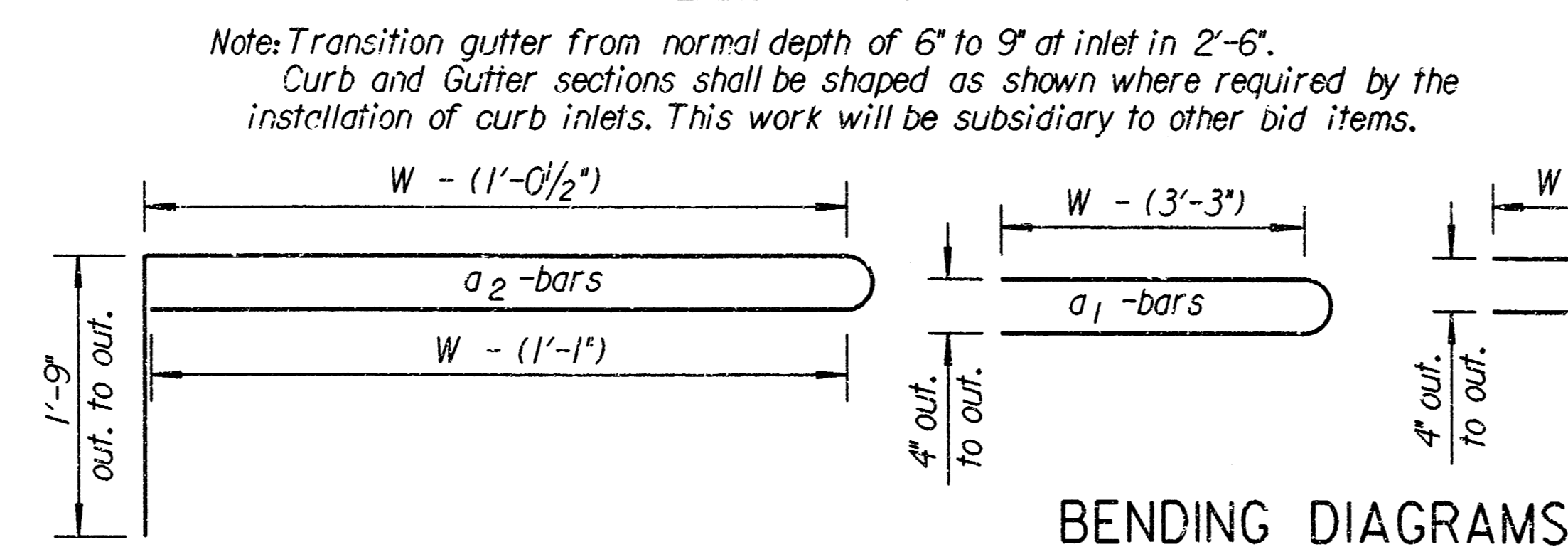
SECTION C-C



PLAN



ELEVATION



BENDING DIAGRAMS

GENERAL NOTES

Use Class A Concrete throughout. All exposed edges shall be finished with an edging tool.

At the contractor's option Class A Concrete (AE) or mix used in concrete pavement may be used throughout. In general, pipes will enter and leave manhole at various positions. Where possible bend bars around pipes. Floor of manhole to be shaped as shown in various "EXAMPLES" with unreinforced Class "A" Concrete.

Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert. Top reinforcing bars to be adjusted accordingly.

All castings shall be gray iron and shall comply with the KDOT Standard Specifications.

When so ordered by the Engineer, the top of the manhole shall be sloped slightly to approximately fit the ground line or other conditions.

Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.

Steps shall be installed in all storm sewer inlets when specified in the plans or when "H" is equal to or greater than six feet. Steps shall comply with the KDOT Standard Specification.

No reduction in concrete quantities shall be made for pipe openings.

When directed by the Engineer, a small opening in the back of the inlet shall be provided in order to drain a low area. Reinforcing bars shall extend through the opening. No reduction in concrete quantities will be made for this opening.

No addition in concrete quantities shall be made for shaping floor of inlet.

No reduction in pay length of curb, gutter, or curb & gutter will be made through the inlet area.

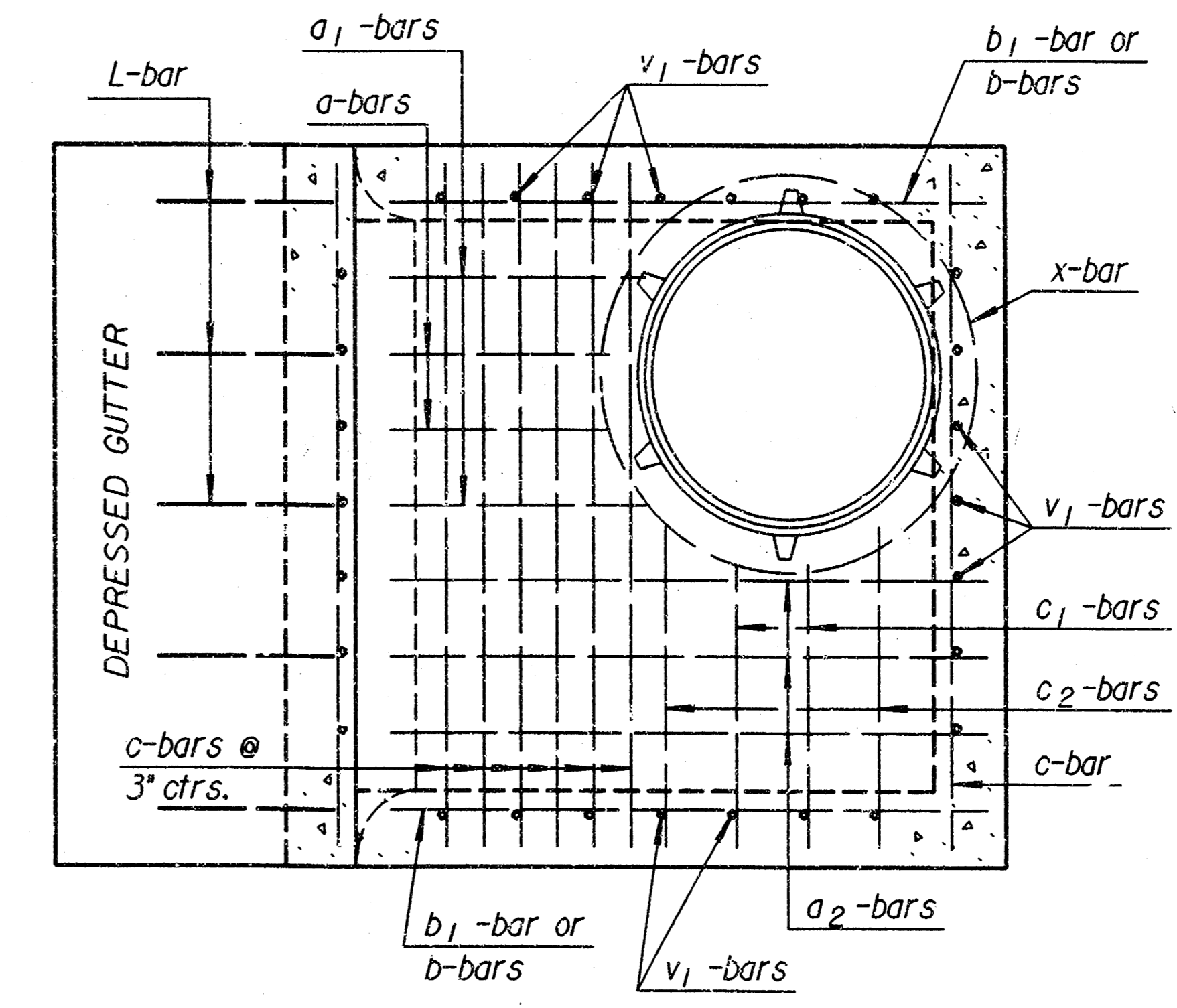
The weight of castings includes no allowance for fillets and overruns.

Curb and Gutter sections shall be shaped as shown where required by the installation of curb inlets. This work shall be subsidiary to other bid items.

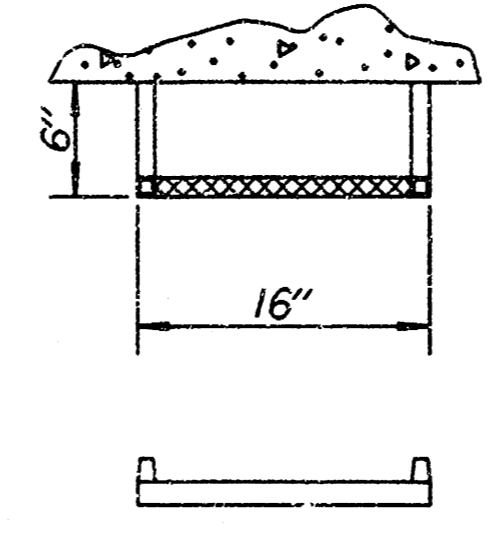
See sheet entitled "Reinforcing Steel for Inlets and Manholes" for details and quantities.

For additional notes and details on Light Type Cast Iron Manhole Cover and Ring Type C and Cast Iron Steps, see Standard RD633 "Reinforced Concrete Manhole".

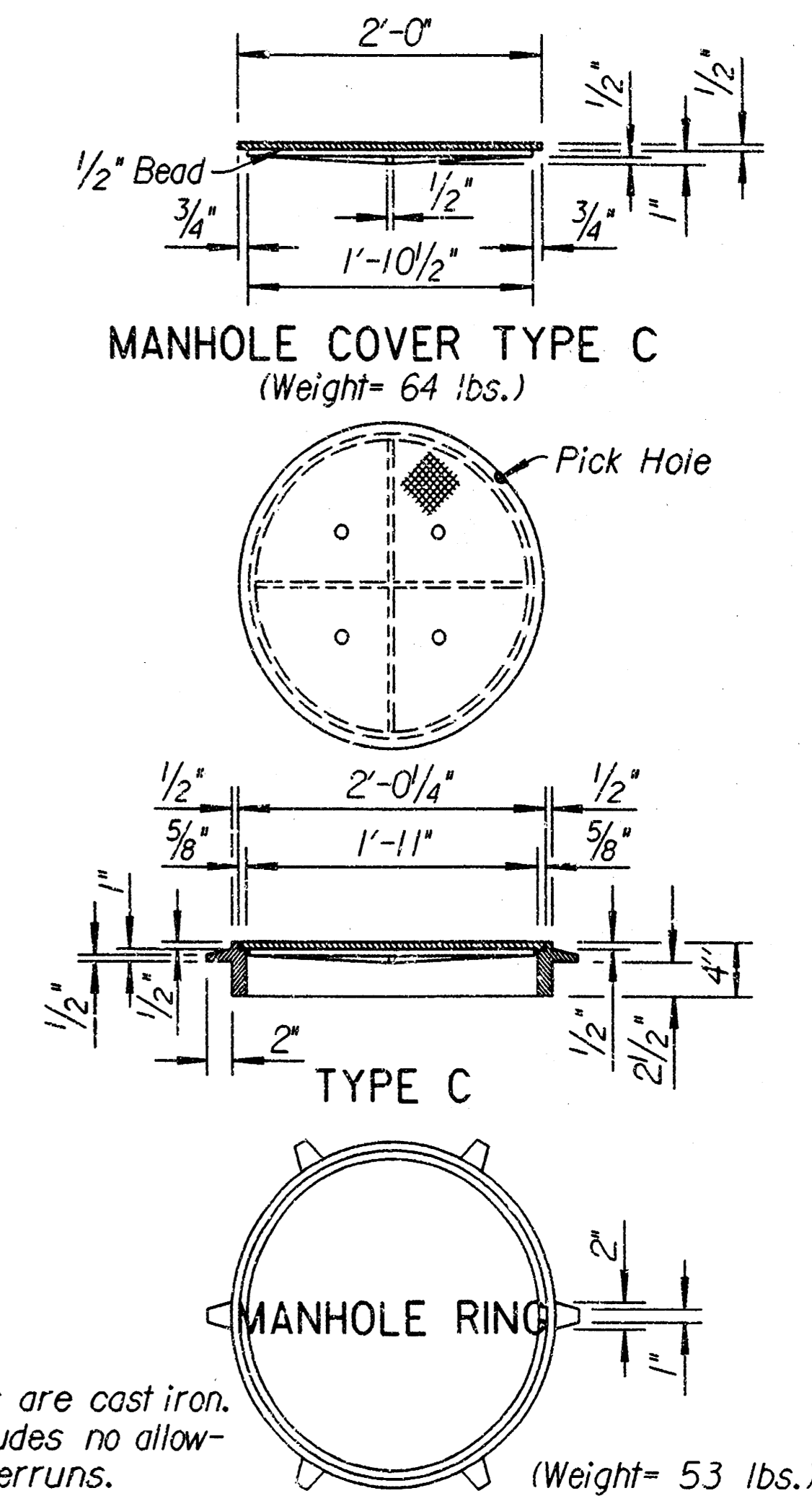
All reinforcing steel shall be #4 at 6" centers except where noted. Minimum clear distance to reinforcement shall be 1/2".



Reinforcing Steel Top View



STEP DETAILS



NOTE: All manhole castings are cast iron. Weight of castings includes no allowance for fillets and overruns.

* LIGHT TYPE
MANHOLE COVER & RING
* Rings with four equally spaced lugs will be permitted.

NO.	DATE	REVISIONS	BY	APP'D
3	12-8-94	Added misc. notes	R.J.S.	J.O.B.
2	12-27-93	Delete point note	R.J.S.	J.O.B.
1	1-30-92	Rev. point & step notes, ent. on CADD	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

TYPE 22 CURB INLET

RD646

FHWA APPROVAL	DESIGNED	DESIGN CK.	1-12-95	APP'D.	QUANTITIES	TRACED	JAMES O. BROWER

Drawn By: J.KDOT
File: 12/20/94/17/rd646.dgn
Plotted: sdr 3-4-97

- SEDIMENT BARRIERS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL SEDIMENT BARRIERS WILL BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER WITH NO ADJUSTMENT IN UNIT PRICE.
- SEDIMENT BARRIERS SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF EARTHWORK OPERATIONS IN A GIVEN BASIN. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF SEDIMENT BARRIERS WILL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHEN DEBRIS REACHES ONE-THIRD THE FENCE HEIGHT OR AS DEEMED NECESSARY BY THE ENGINEER. SEDIMENT BARRIERS AND ACCUMULATED DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AFTER TURF COVER HAS BEEN ESTABLISHED, UNLESS OTHER ARRANGEMENTS HAVE BEEN AGREED TO.
- FILTER FABRIC FOR FENCE OPTION SEDIMENT BARRIERS SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:

MIRAFI, INC.	-	100X
HOECHST FIBERS INDUSTRIES	-	TREVIRA 1115
EXXON	-	TYPAR 3301 W

MATERIALS SUPPLIED BY THE ABOVE NAMED MANUFACTURERS SHALL BE ACCEPTED UPON VISUAL INSPECTION BY THE ENGINEER. OTHER COMPARABLE MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER.

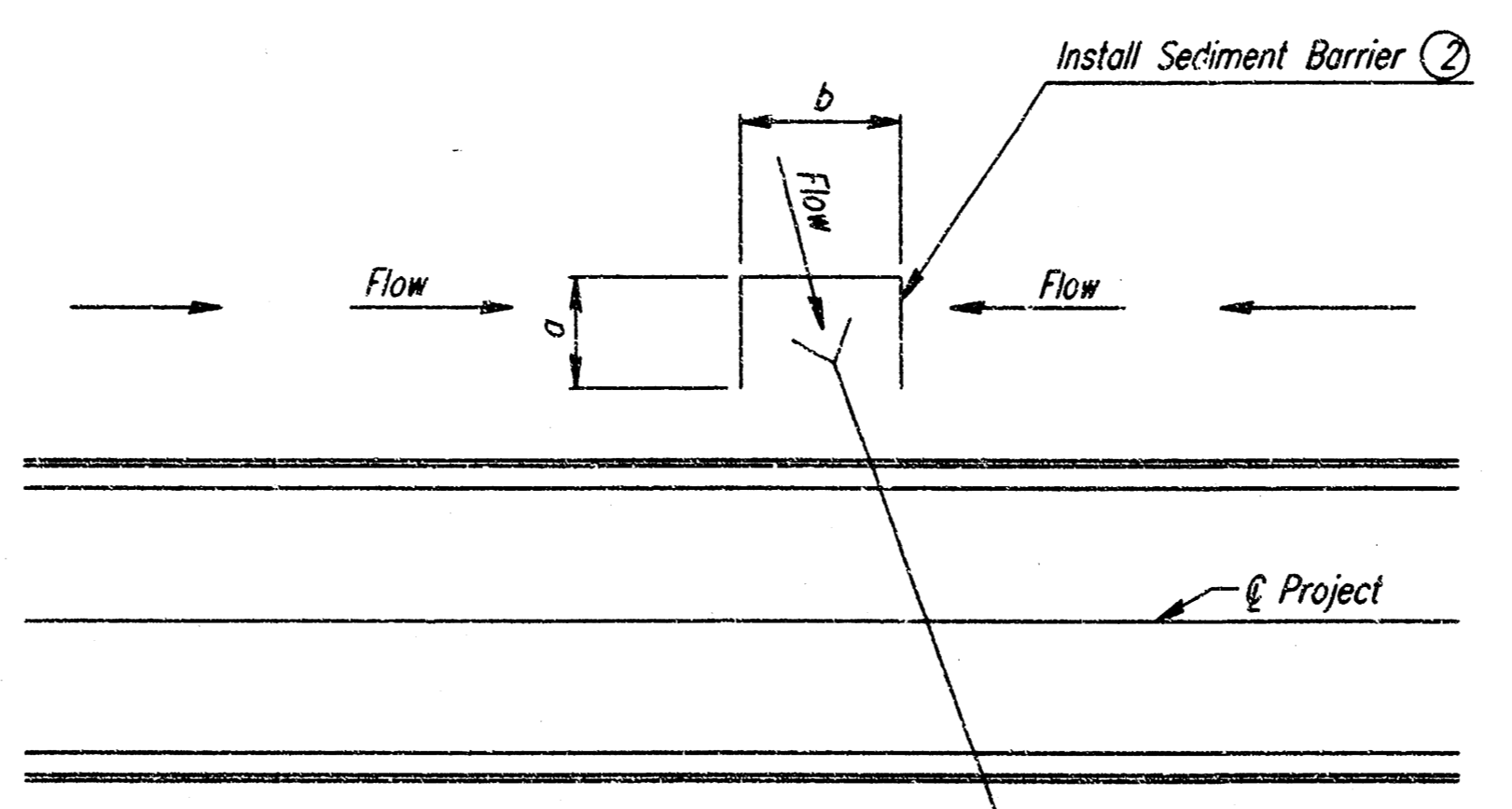
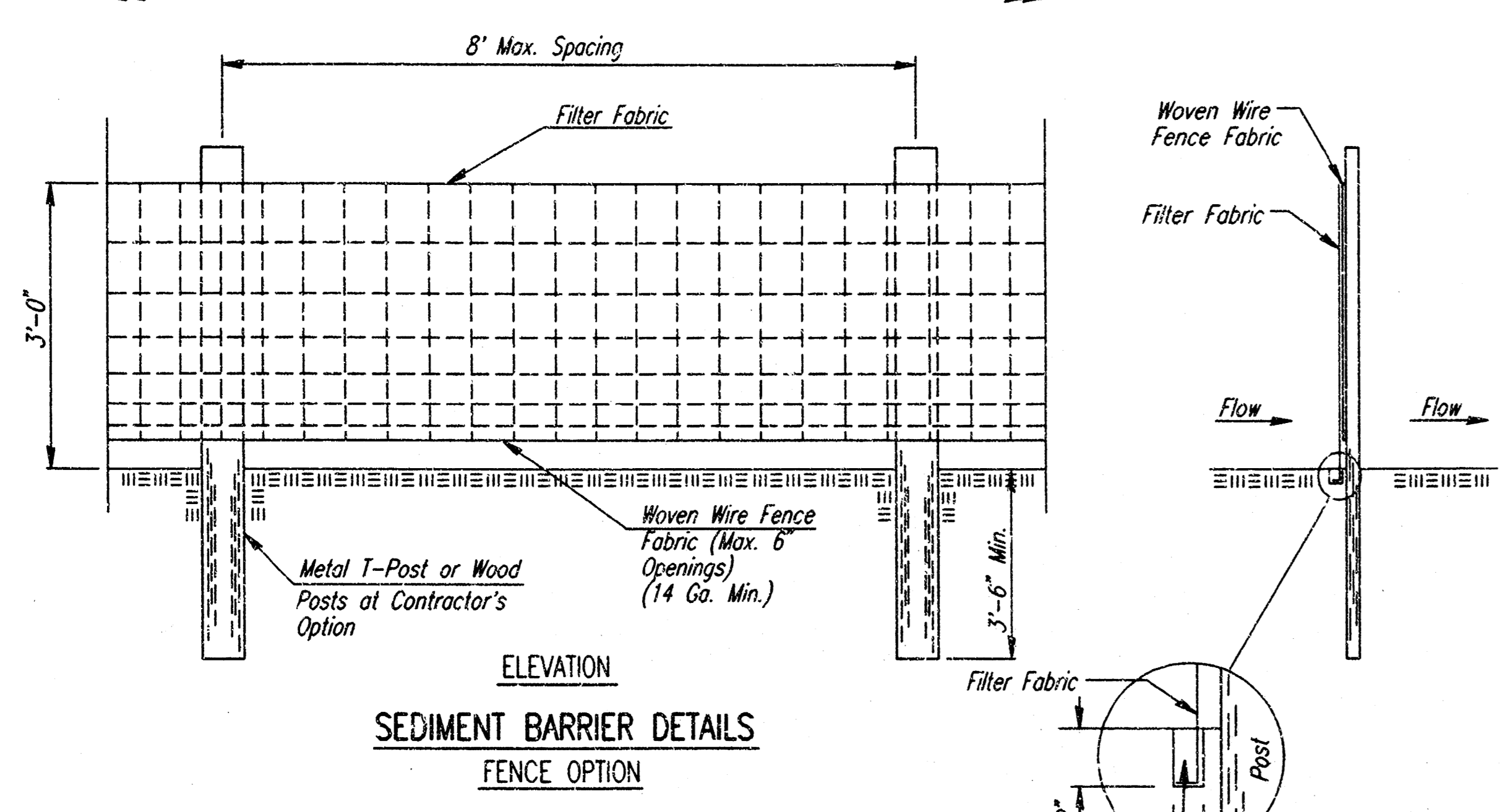
FILTER FABRIC SHALL BE ATTACHED TO FENCE FABRIC BY MEANS OF THE WIRES OR HOG RINGS PRIOR TO ATTACHMENT OF FENCE/FABRIC COMBINATION ONTO THE POSTS.

- BALES USED FOR SEDIMENT BARRIERS MAY BE EITHER HAY OR STRAW, PROVIDED THEY ARE SOUND AND INTACT.
- TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ADDITIONAL BERMS AND/OR DITCHES MAY BE REQUIRED AT NO ADJUSTMENT IN UNIT PRICE(S).

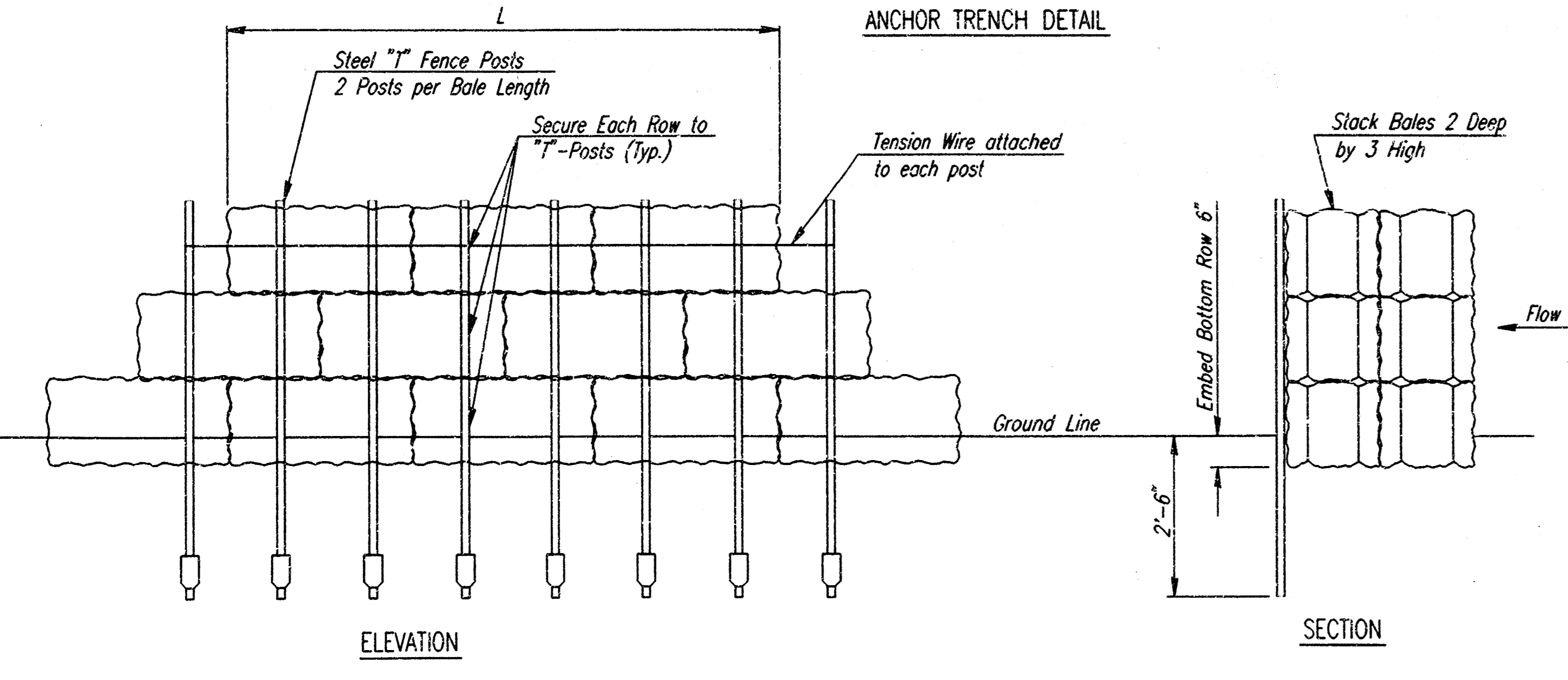
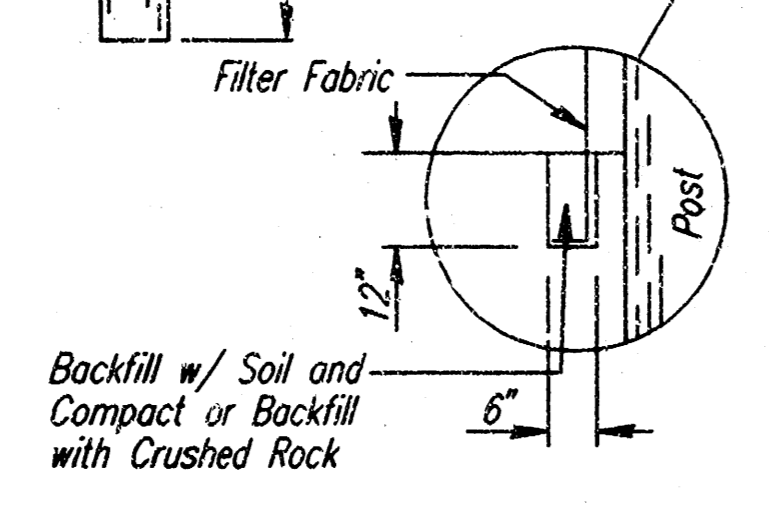
WHERE TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES ARE USED, ALL AREAS WHERE FLOW IS CONCENTRATED SHALL BE PROTECTED BY SILTATION BARRIERS PRIOR TO DISCHARGING INTO ANY DITCH, STORM SEWER, OR WATERCOURSE.

- MEASUREMENT AND PAYMENT: THE ITEM "SEDIMENT BARRIERS", "EROSION CONTROL INTERCEPT DITCH", "EROSION CONTROL BERM" AND "LINEAR SEDIMENT BARRIERS" SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER LINEAL FOOT COMPLETE IN PLACE OF THE VARIOUS BID ITEMS SHOWN. SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR EXCAVATION, COMPACTION, BACKFILL, SEDIMENT AND DEBRIS REMOVAL AND DISPOSAL, AND ALL MATERIALS, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.

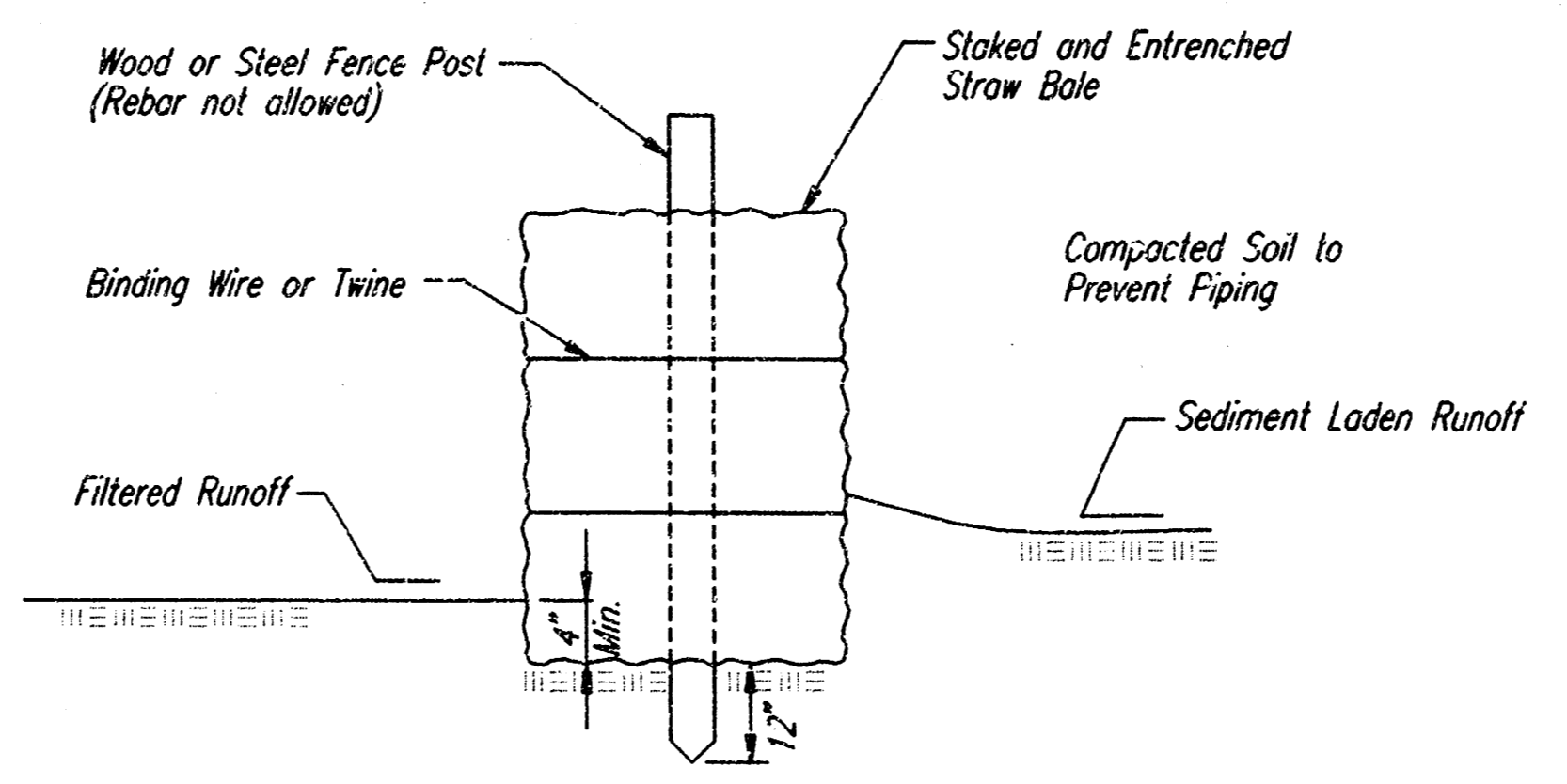
THE ITEM "TEMPORARY SEEDING AND MULCHING" SHALL BE MEASURED AND PAID FOR AT THE CONTRACT PRICE BID PER ACRE OR PER LUMP SUM, AS INDICATED IN THE PROPOSAL.



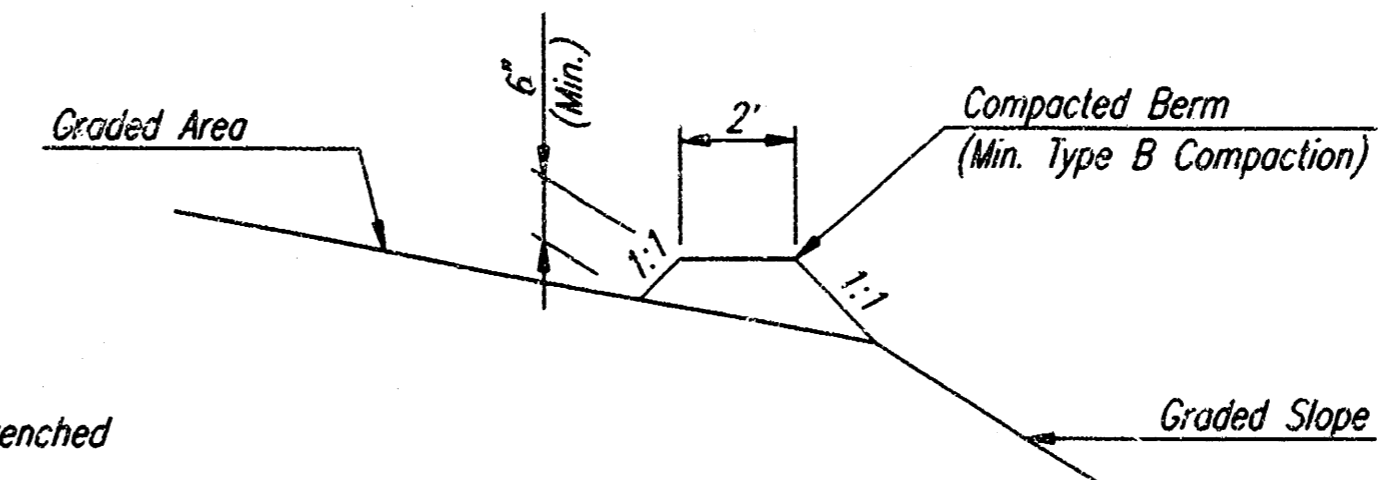
SEDIMENT CONTROL
TYPICAL CROSS ROAD PIPE LOCATION
② a Dimension = Ditch bottom width +10'
b Dimension = End Section or Headwall width +10'



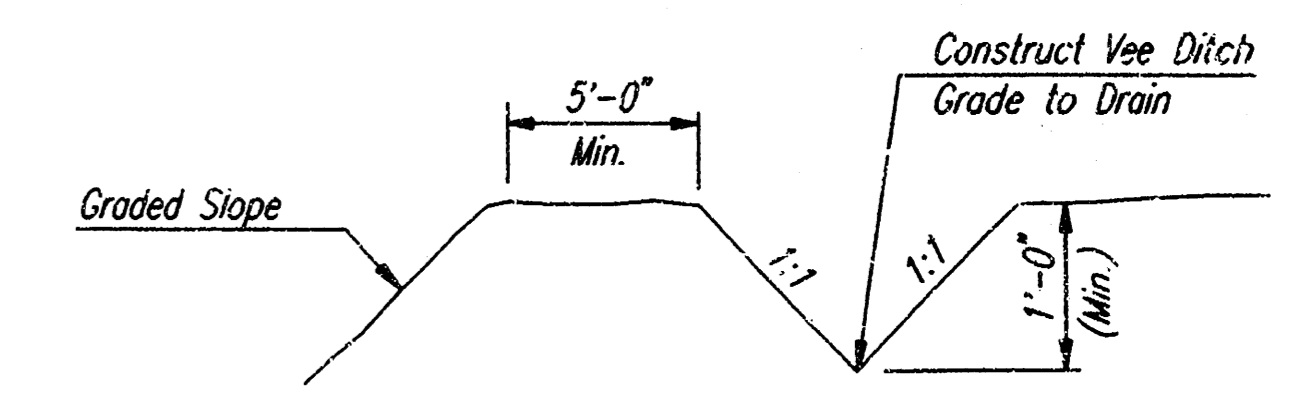
SEDIMENT BARRIER DETAILS
HAY/STRAW BALE OPTION



LINEAR SEDIMENT BARRIER



BERM DETAIL



INTERCEPT DITCH DETAIL

TEMPORARY EROSION CONTROL DETAILS FOR SLOPE PROTECTION
The Engineer may determine that the height of Berm or depth of Ditch should be increased over that shown if Drainage conditions are producing Slope Erosion.

CSNPR: BDM, OTHER: DEP, SCALE: 1"=1.00'
 C:\1997\07088\001\ERSD01.DWG 03-07-1997 8:56:49 am

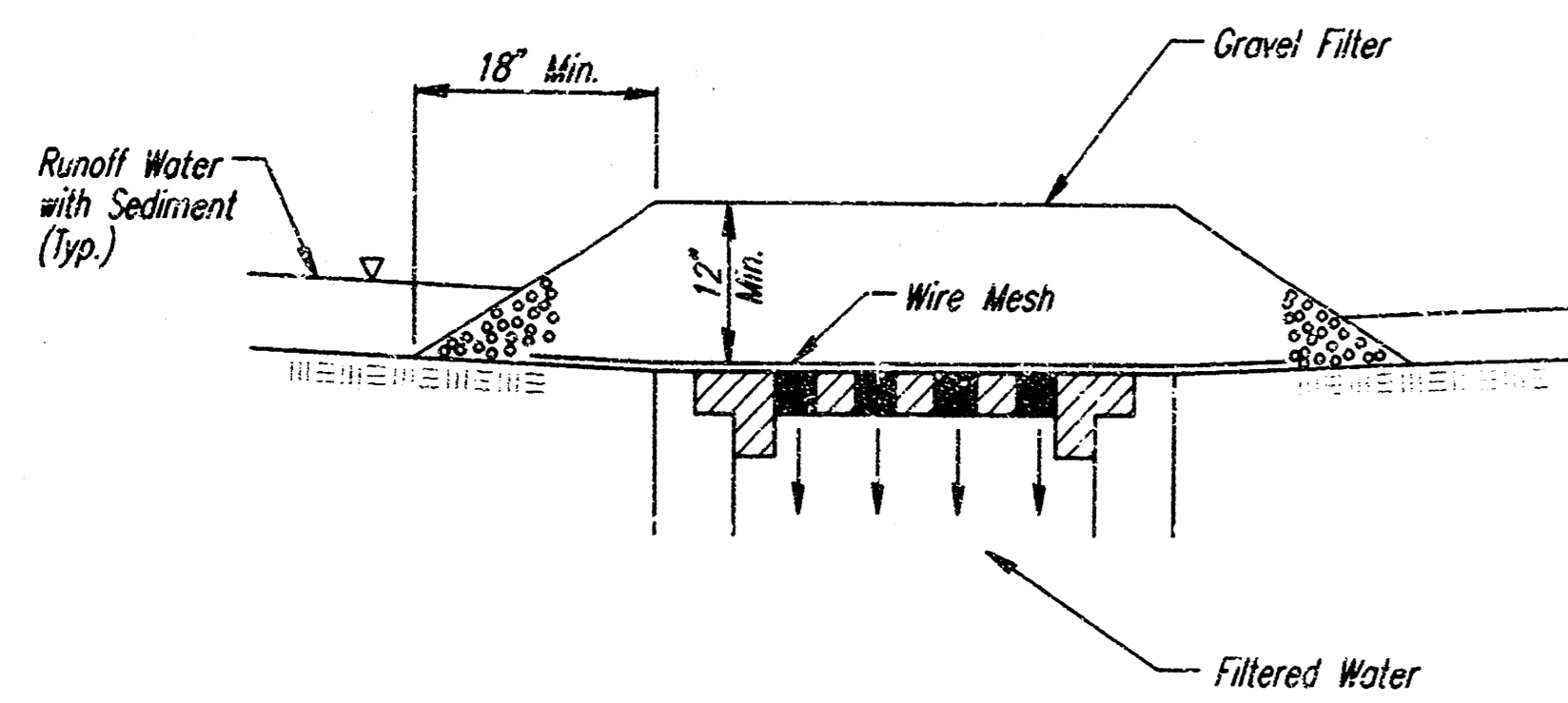
BRADLEY FAIR 2ND ADDITION - NORTH SWS

EROSION CONTROL AND SEDIMENT BARRIER DETAILS

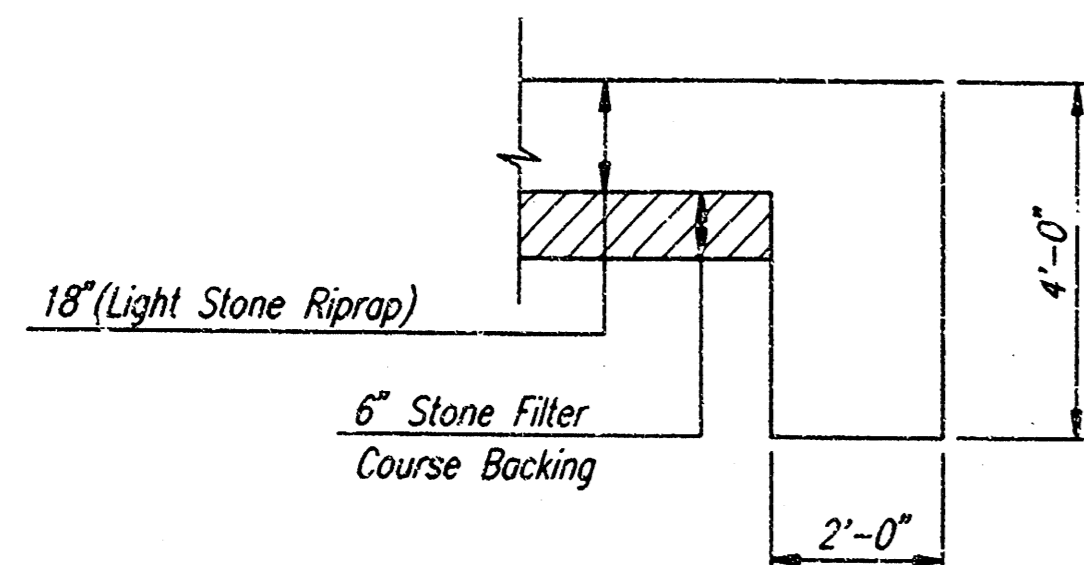
C.O.W. PRIVATE PROJ. NO. 693PPS (607861)

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	PDM	Checked by	
Drawn by	DEP	Date	MAR., 1997
		Job No.	97098-1

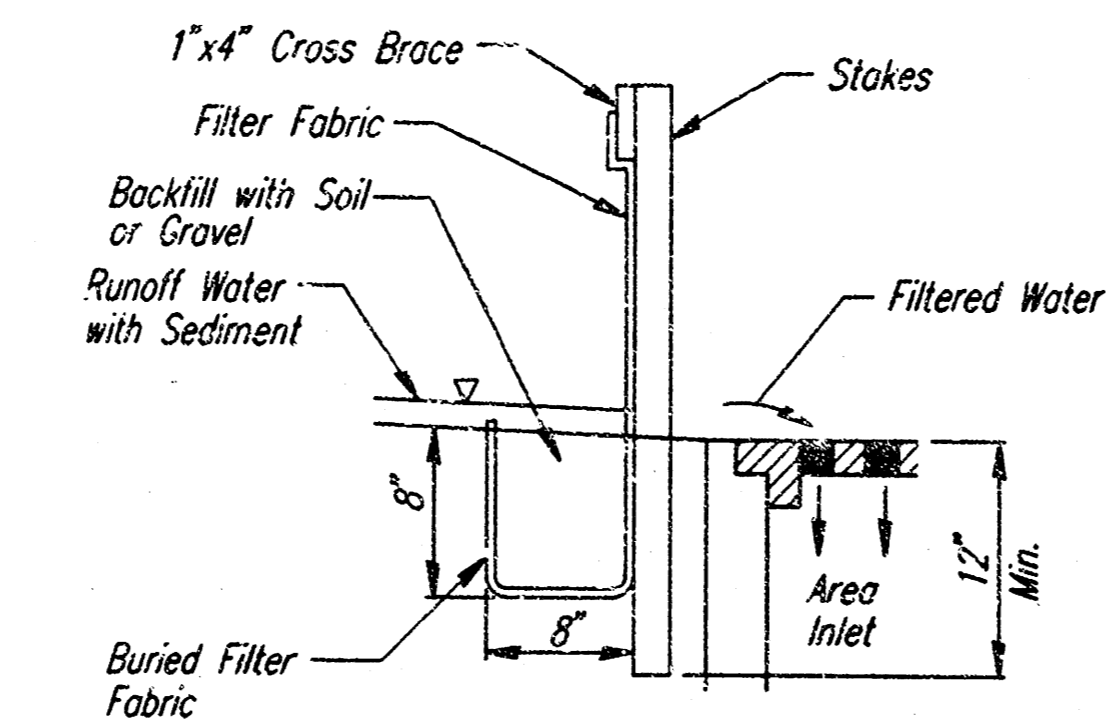
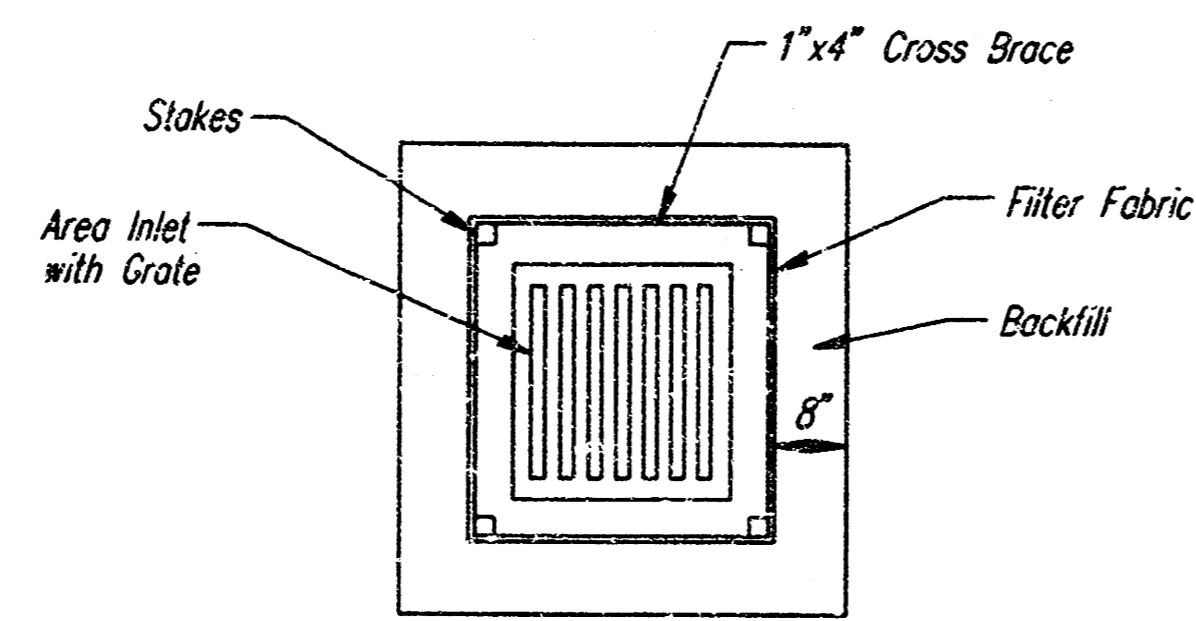


**AREA INLET PROTECTION
GRAVEL AND WIRE MESH**

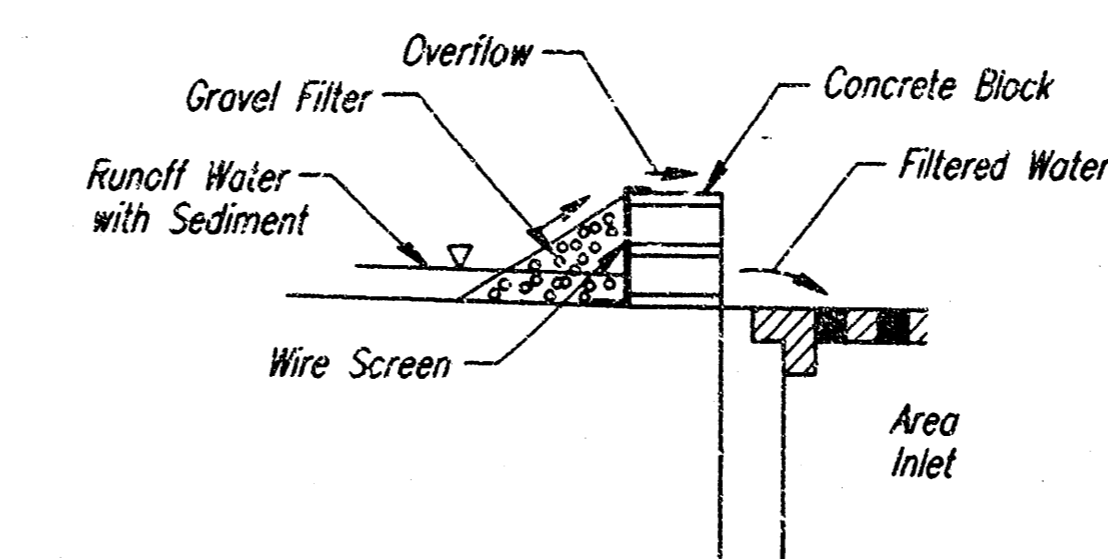
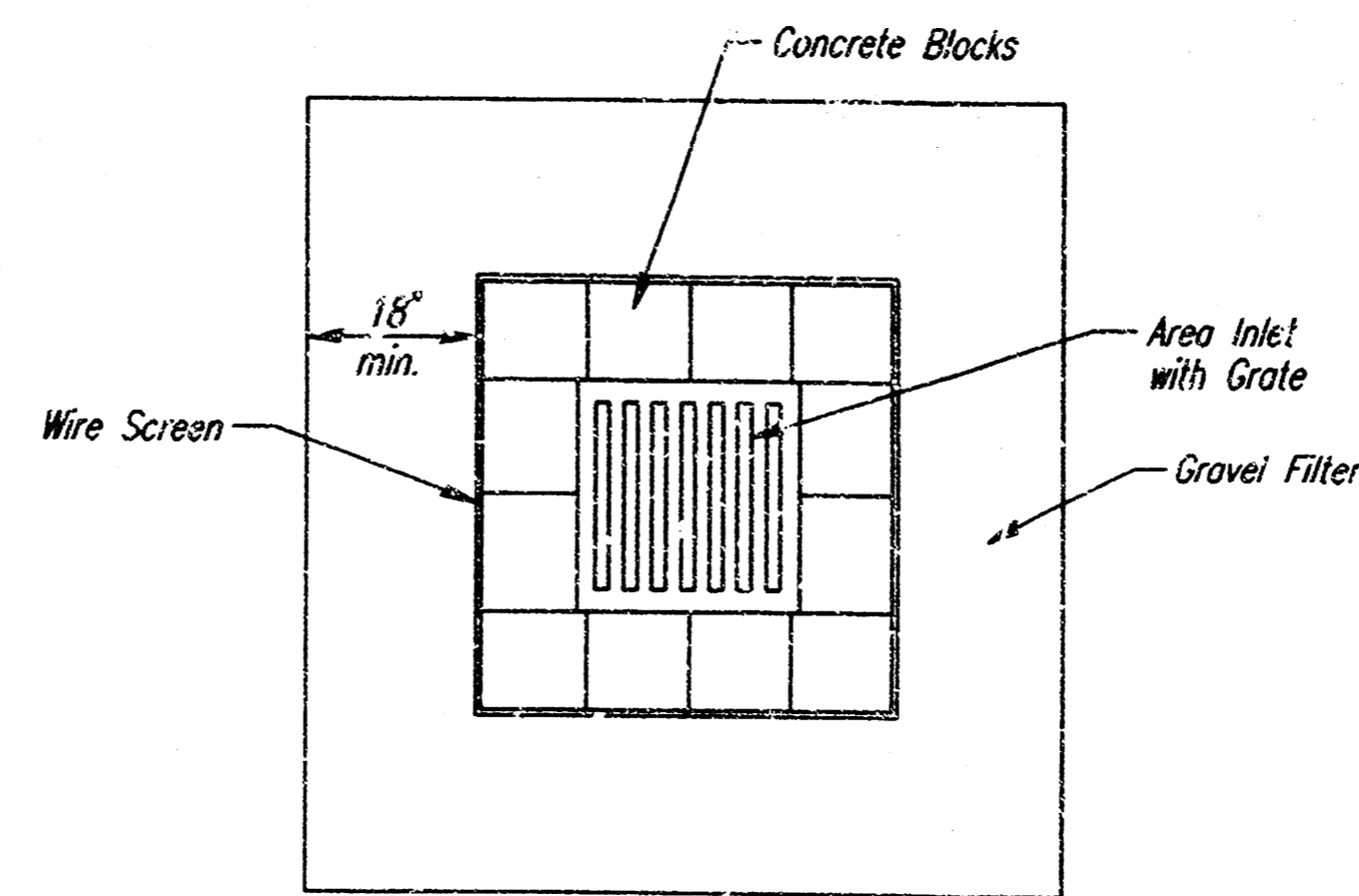


**TYPICAL SECTION THRU TOEWALL
NO SCALE**

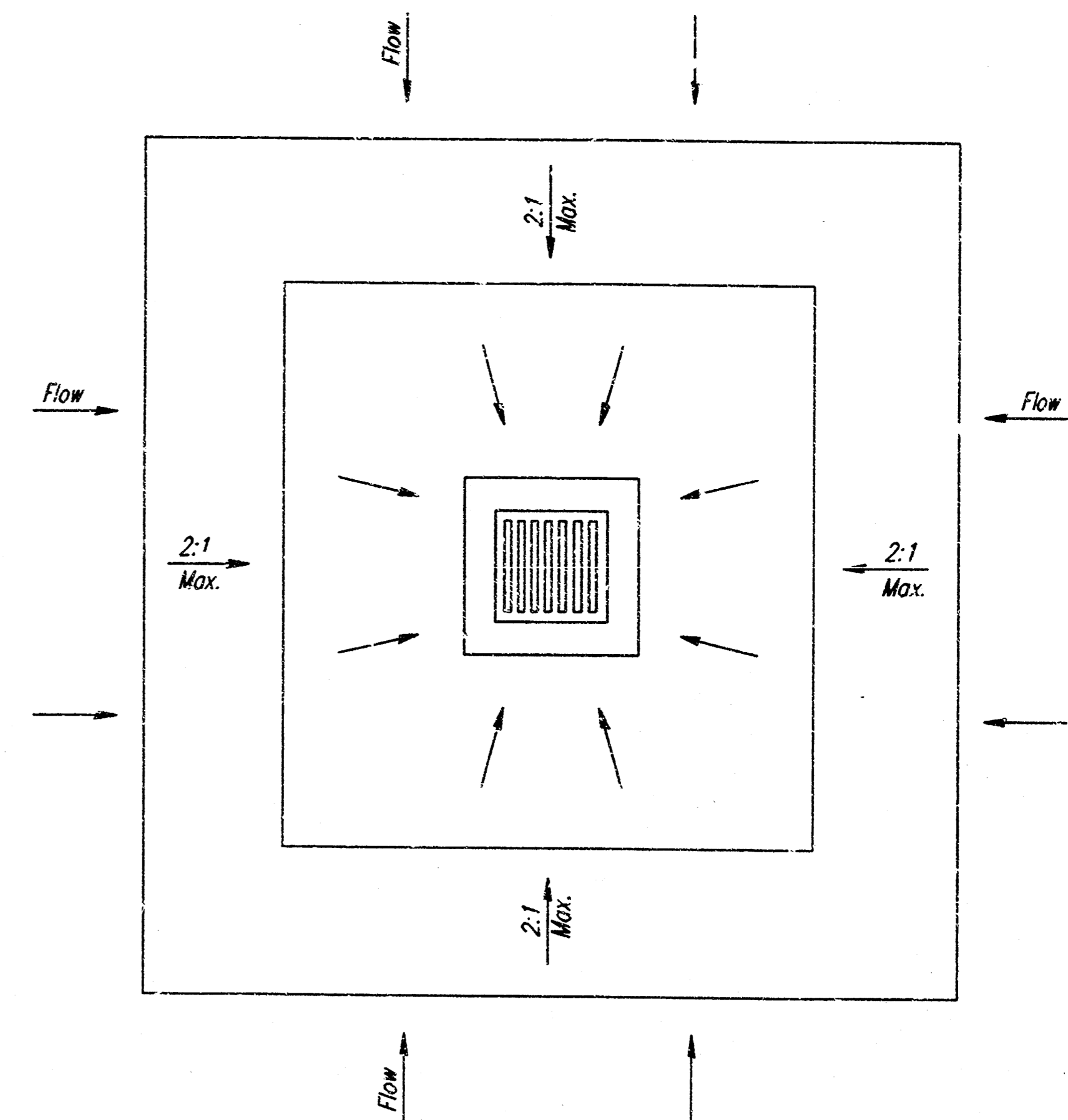
- NOTES**
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
 2. TOEWALLS SHALL BE INSTALLED ALONG ALL EDGES OF STONE RIPRAP.
 3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.



**AREA INLET PROTECTION
FILTER FABRIC**



**AREA INLET PROTECTION
BLOCK AND GRAVEL FILTER**

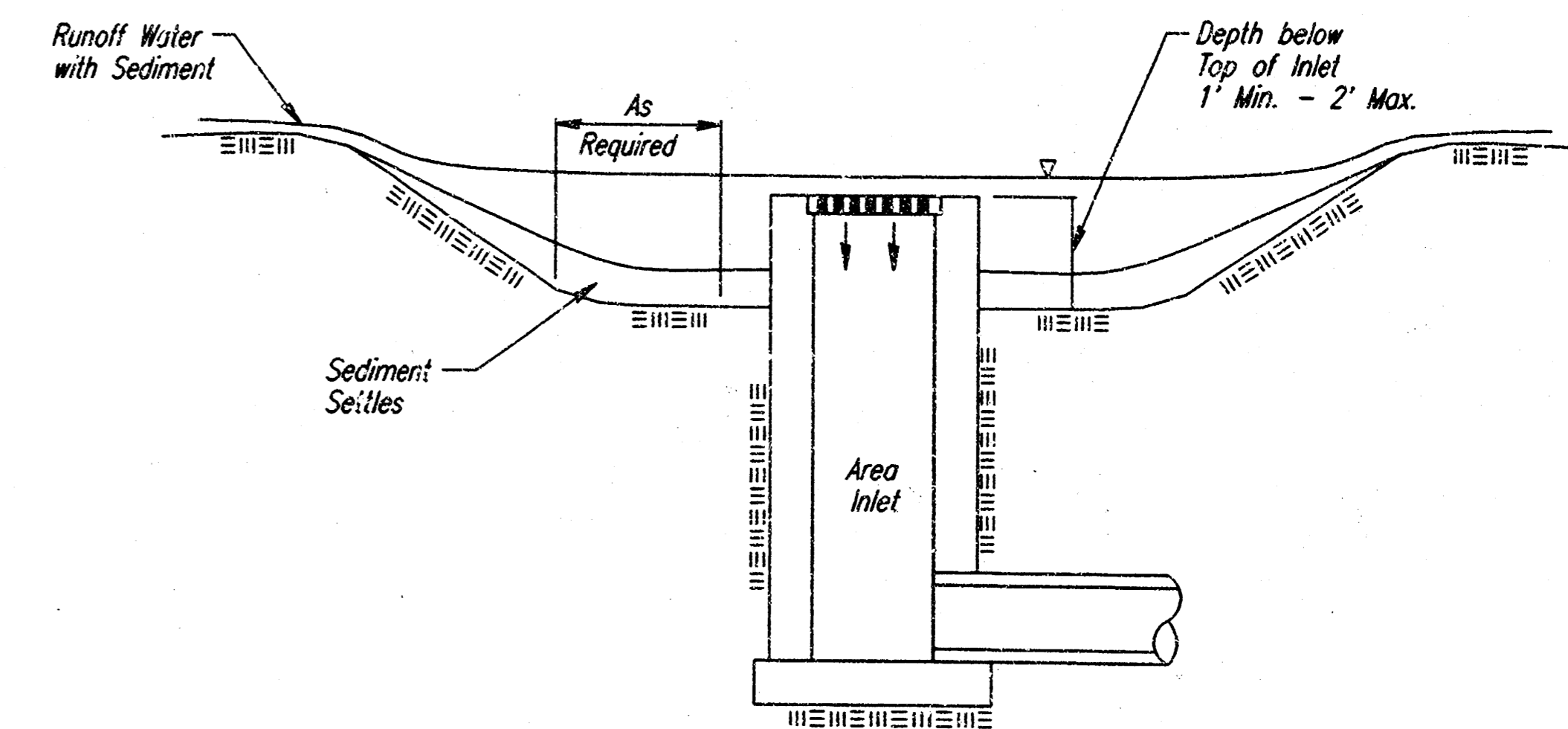


**GENERAL NOTES
INLET PROTECTION**

1. INLET PROTECTION METHOD MAY BE ANY OF THE APPLICABLE TYPES SHOWN, AT THE CONTRACTORS OPTION.
2. GRAVEL FILTER SHALL BE A DURABLE, WELL-GRADED SAND-GRAVEL OR CRUSHED STONE, MAXIMUM 1-1/2 IN. SIPE. AS AN ALTERNATE GRAVEL FILLED BAGS OF BURLAP OR OTHER FABRIC MAY BE USED. WHERE BAGS ARE USED, THE WIRE SCREEN, WHERE SHOWN, MAY BE OMITTED.
3. FILTER FABRIC, WHERE USED, SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:

MIRAFI, INC. - 100X
HOECHST FIBERS INDUSTRIE, - TREVIRA 1115
EXXON - TYPAR 3301 W

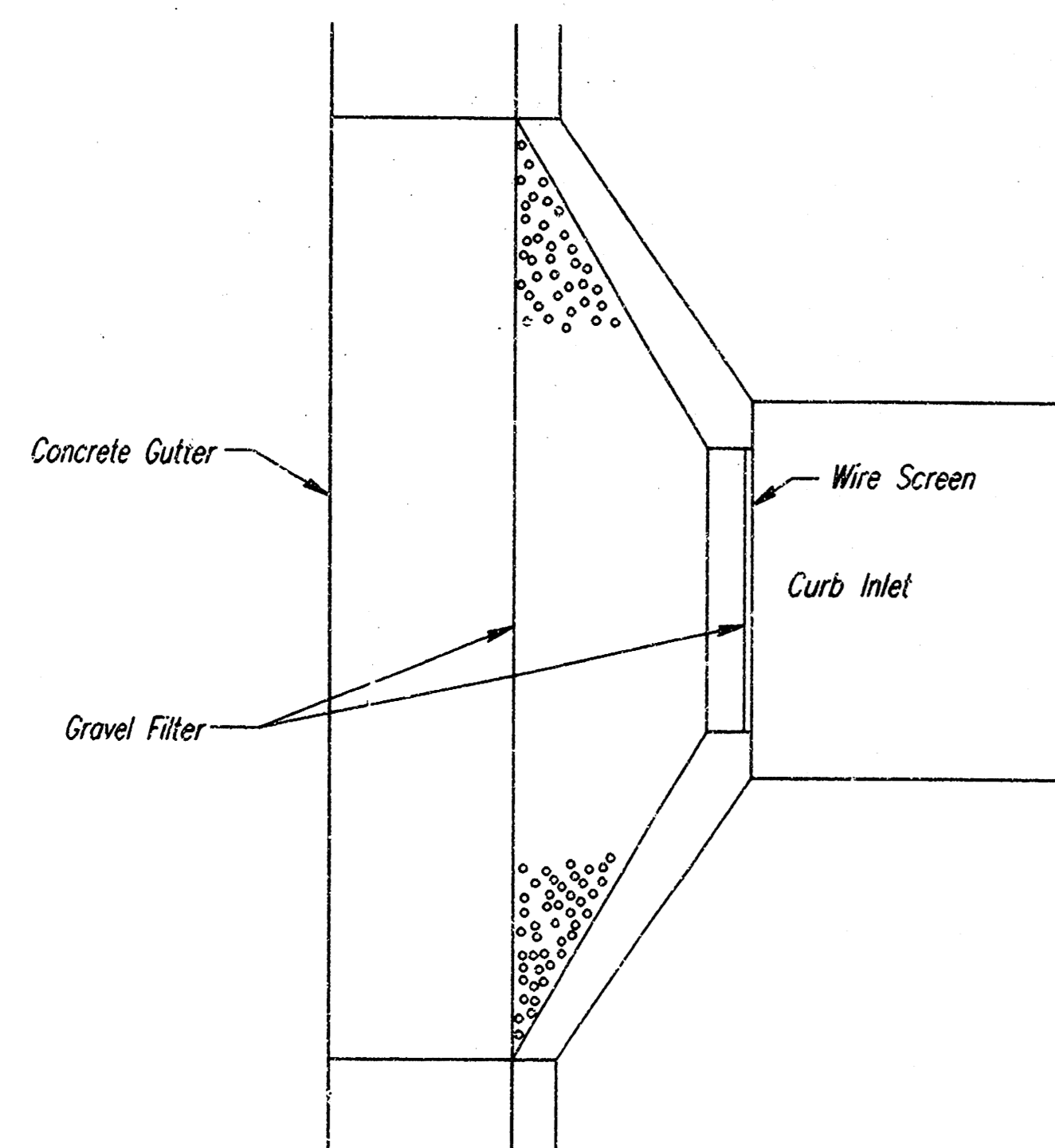
MATERIALS SUPPLIED BY THE ABOVE NAMED MANUFACTURERS SHALL BE ACCEPTED UPON VISUAL INSPECTION BY THE ENGINEER. OTHER COMPARABLE MATERIALS MAY BE USED IF APPROVED BY THE ENGINEER.
4. INLET PROTECTION SHALL BE ERECTED AS SOON AS THE STRUCTURE HAS BEEN BACKFILLED. MEASURES SHALL BE TAKEN TO PRECLUDE ENTRY OF SEDIMENT INTO THE STORM WATER SEWER SYSTEM DURING CONSTRUCTION OF THE STRUCTURE.
5. REMOVAL AND DISPOSAL OF ACCUMULATED SILT AND DEBRIS AND/OR REMOVAL AND RECONSTRUCTION OF INLET PROTECTION INSTALLATIONS SHALL BE PERFORMED THROUGHOUT THE PROJECT LIFE WHENEVER DEBRIS REACHES ONE-THIRD THE BARRIER HEIGHT, OR AS DEEMED NECESSARY BY THE ENGINEER. ULTIMATE REMOVAL AND DISPOSAL OF INLET PROTECTION AND DEBRIS WILL BE PERFORMED BY THE DEVELOPER.
6. MEASUREMENT AND PAYMENT: THE ITEM "INLET PROTECTION" SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH FOR EACH INLET LOCATION PROTECTED REGARDLESS OF METHOD SELECTED BY THE CONTRACTOR. SAID PRICE SHALL BE CONSIDERED FULL COMPENSATION FOR EXCAVATION, COMPACTION, BACKFILL, SEDIMENT, AND DEBRIS REMOVAL AND DISPOSAL, AND ALL LABOR, MATERIALS, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. RECONSTRUCTION OF INLET PROTECTION INSTALLATION DUE TO DAMAGE BY WIND, FLOOD, FIRE, ETC. OR DUE TO ACTIONS BY THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.



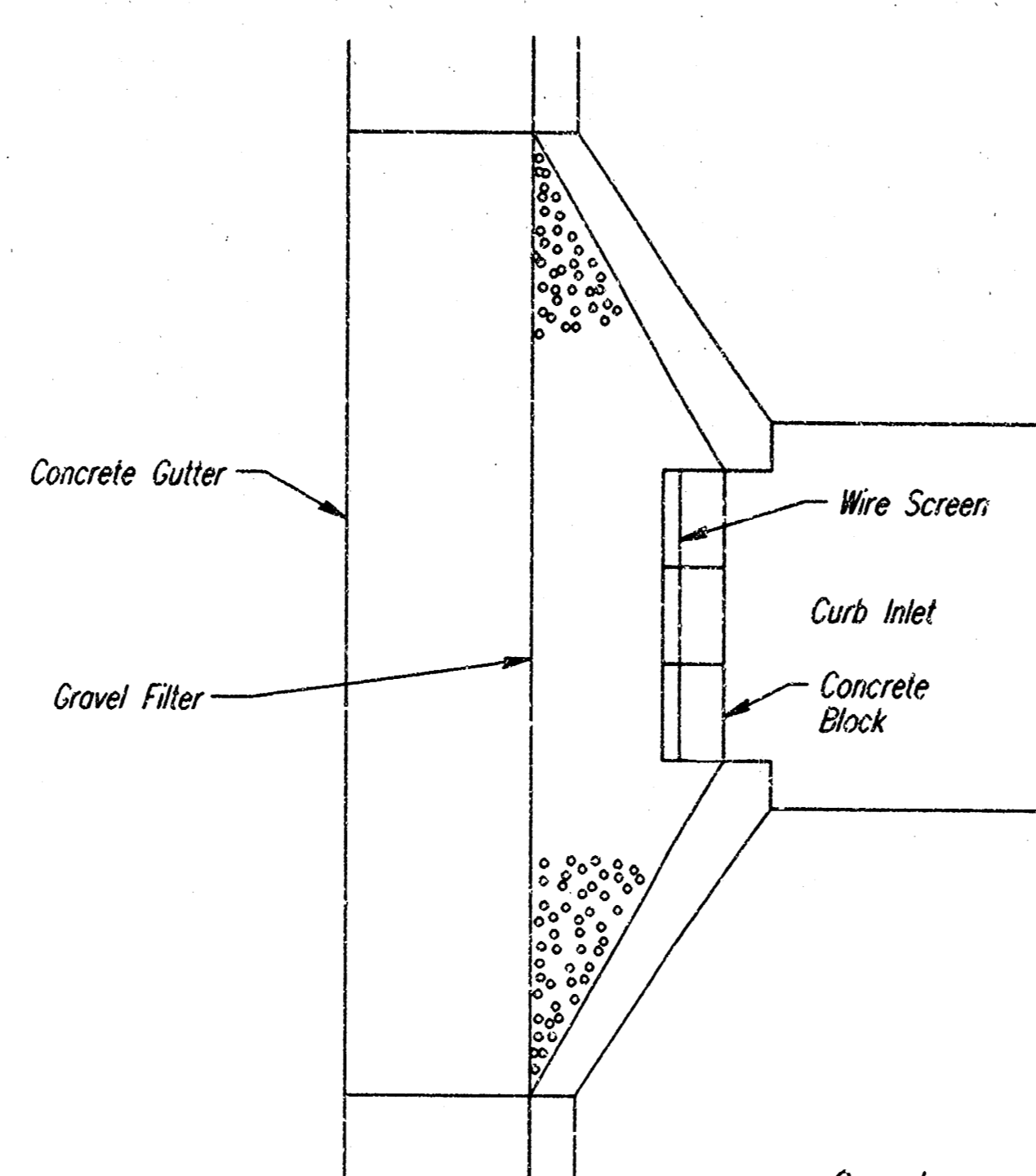
**AREA INLET PROTECTION
EXCAVATED AREA INLET
SEDIMENT TRAP**

ADAPTED FROM: VIRGINIA SOIL AND WATER CONSERVATION COMMISSION, 1985 AND DRAINAGE CRITERIA MANUAL, DENVER URBAN DRAINAGE AND FLOOD CONTROL DISTRICT 9-1-92

NOTE: INLET SIPE MAY VARY FROM THAT SHOWN.



**CURB INLET PROTECTION
GRAVEL AND WIRE MESH FILTER**

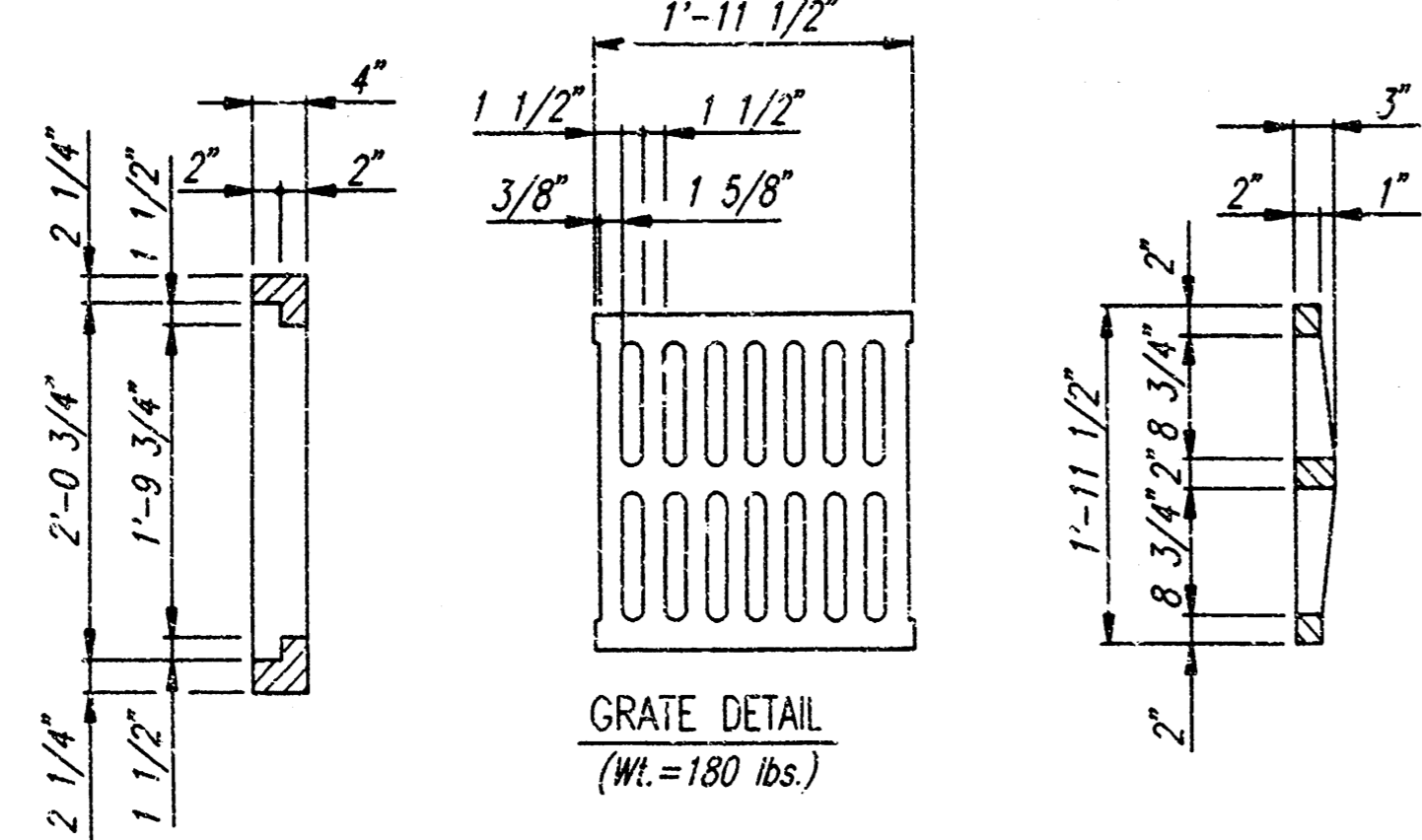
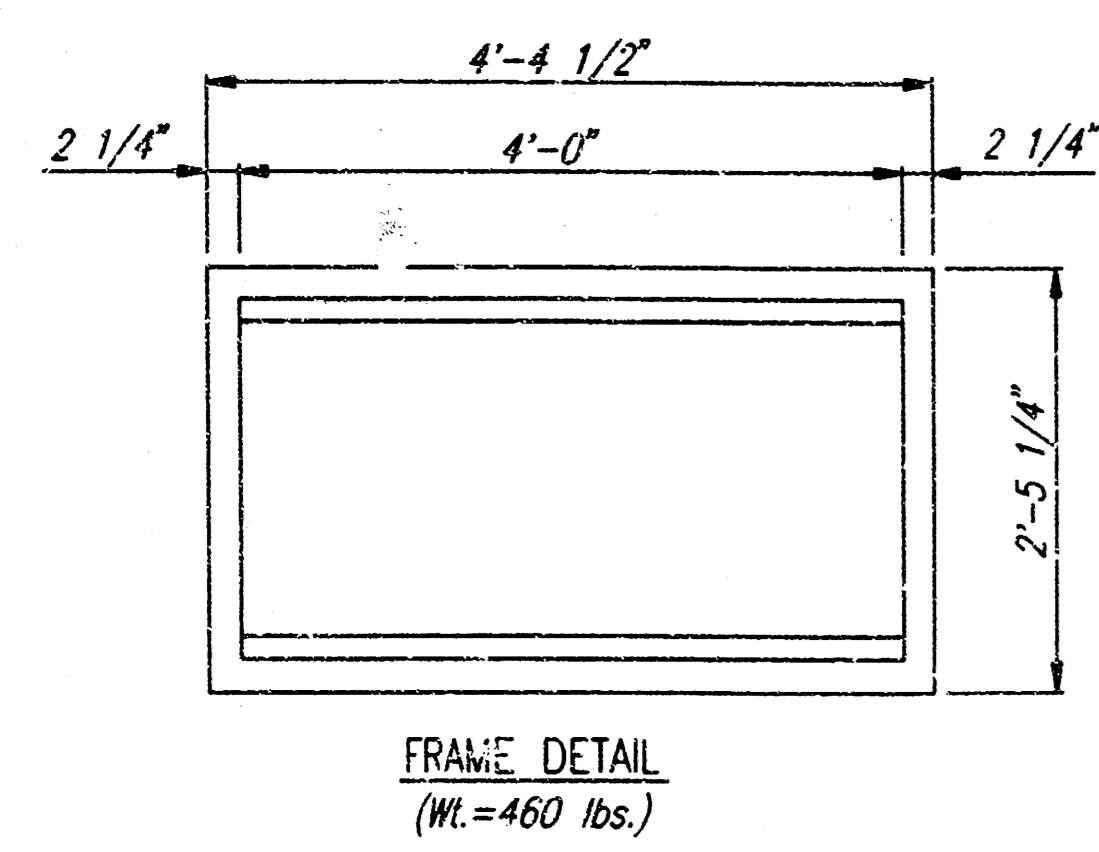


**CURB INLET PROTECTION
BLOCK AND GRAVEL FILTER**

BRADLEY FAIR 2ND ADDITION - NORTH SWS
**SEDIMENT AND EROSION
CONTROL STANDARD DETAILS
AND INLET PROTECTION**
C.O.M. PRIVATE PROJ. NO. 693PPS (607851)
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	MWB, PDM	Checked by	
Drawn by	DEP	Date	MAR., 1997
		Job No.	97098-1

REVISED 1/95



GENERAL NOTES

CONCRETE SHALL BE C.O.W. STANDARD PAVING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN APPROVED EDGING TOOL.

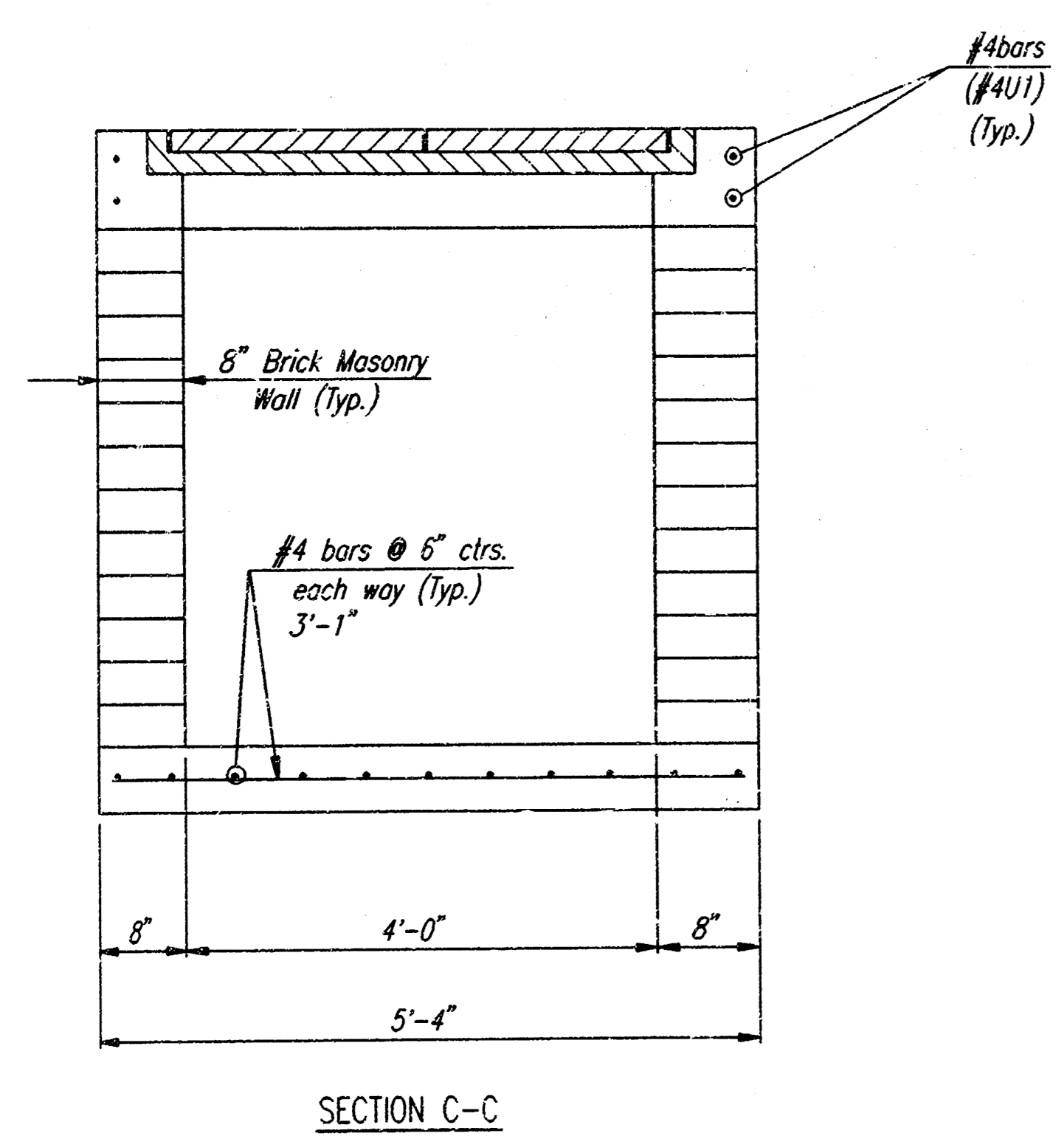
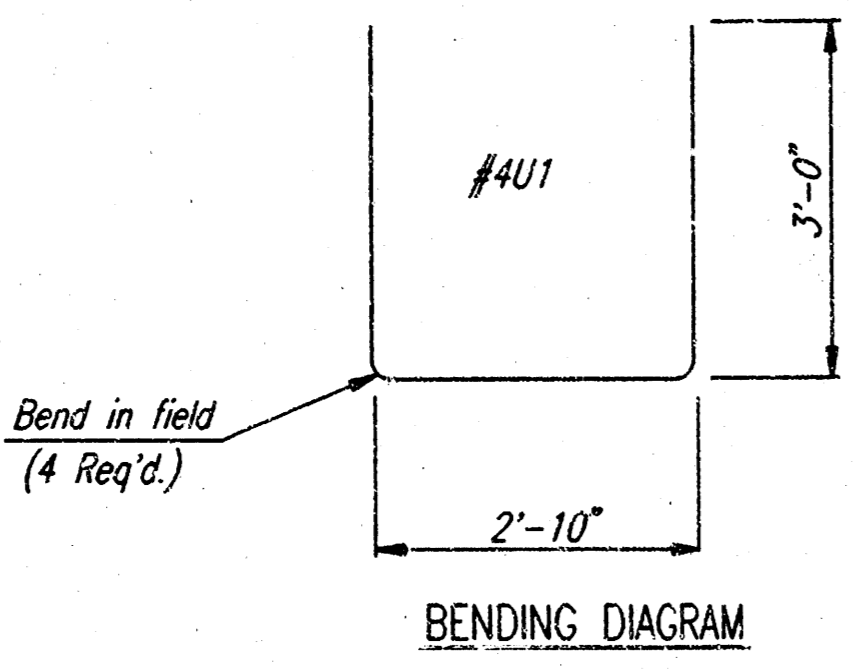
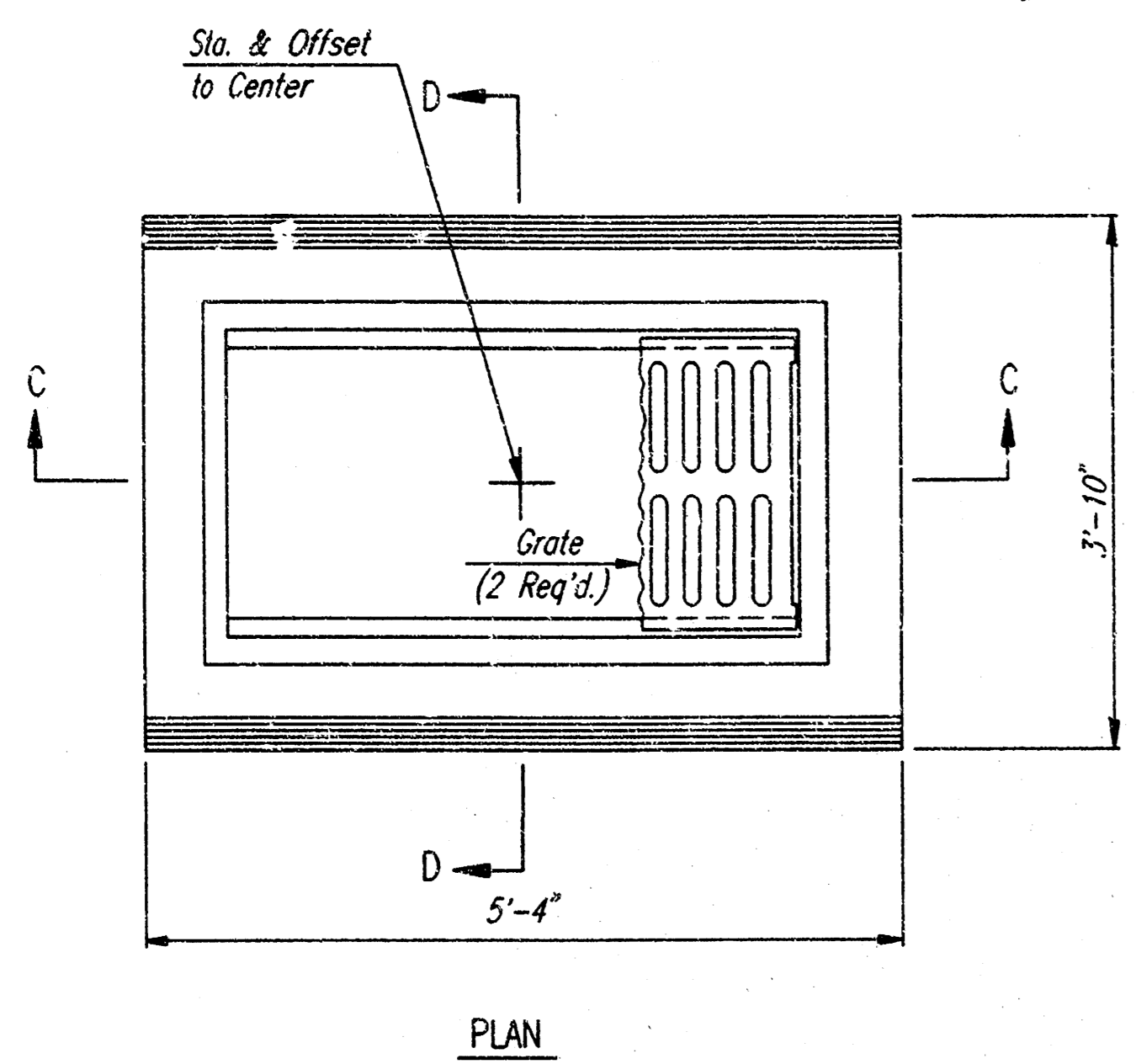
REINFORCING STEEL SHALL BE A MINIMUM GRADE 40, A.S.T.M. A615. ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO THE CENTERLINE OF BARS UNLESS OTHERWISE NOTED.

INLET CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CASTING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.

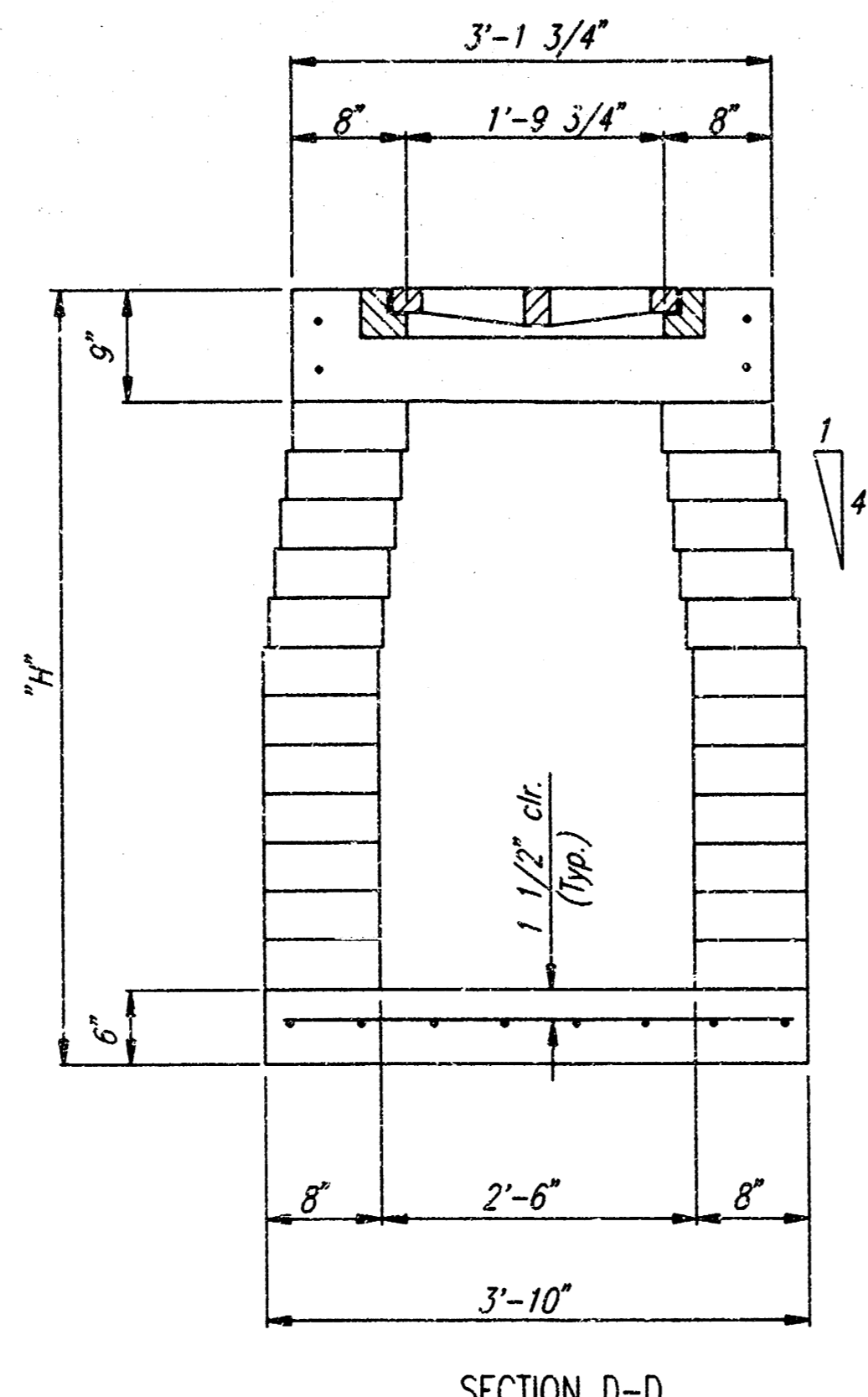
CONSTRUCTION REQUIREMENTS AND MATERIALS FOR MASONRY WALLS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

INLET FLOOR SHALL BE SHAPED WITH UNREINFORCED CONCRETE (8 SACK SAND MIX) TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

AREA INLETS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, MATERIALS, LABOR, CONNECTION TO EXISTING STRUCTURES (IF REQUIRED), EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.



AREA INLET



SECTION D-D

DSNR: GDD, CRER: DEP, SCALE: 1=1.00
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BRADLEY FAIR 2ND ADDITION - NORTH SWS	
AREA INLET DETAILS	
C.O.W. PROJ. NO. 693PPS (607861)	
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	
ENGINEERS WICHITA, KANSAS	
Designed by: PDM	Checked by:
Drawn by: DEP	Date: 4-8-98 No. 97098-001