

SHEET NO.	TOTAL SHEETS
1	6

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

# STORM WATER SEWER IMPROVEMENTS

IN  
 EAST TURNPIKE ENTRANCE 2ND ADDITION  
 CITY OF WICHITA PRIVATE PROJECT NO. 1050PPS (607861)

**INDEX OF SHEETS**

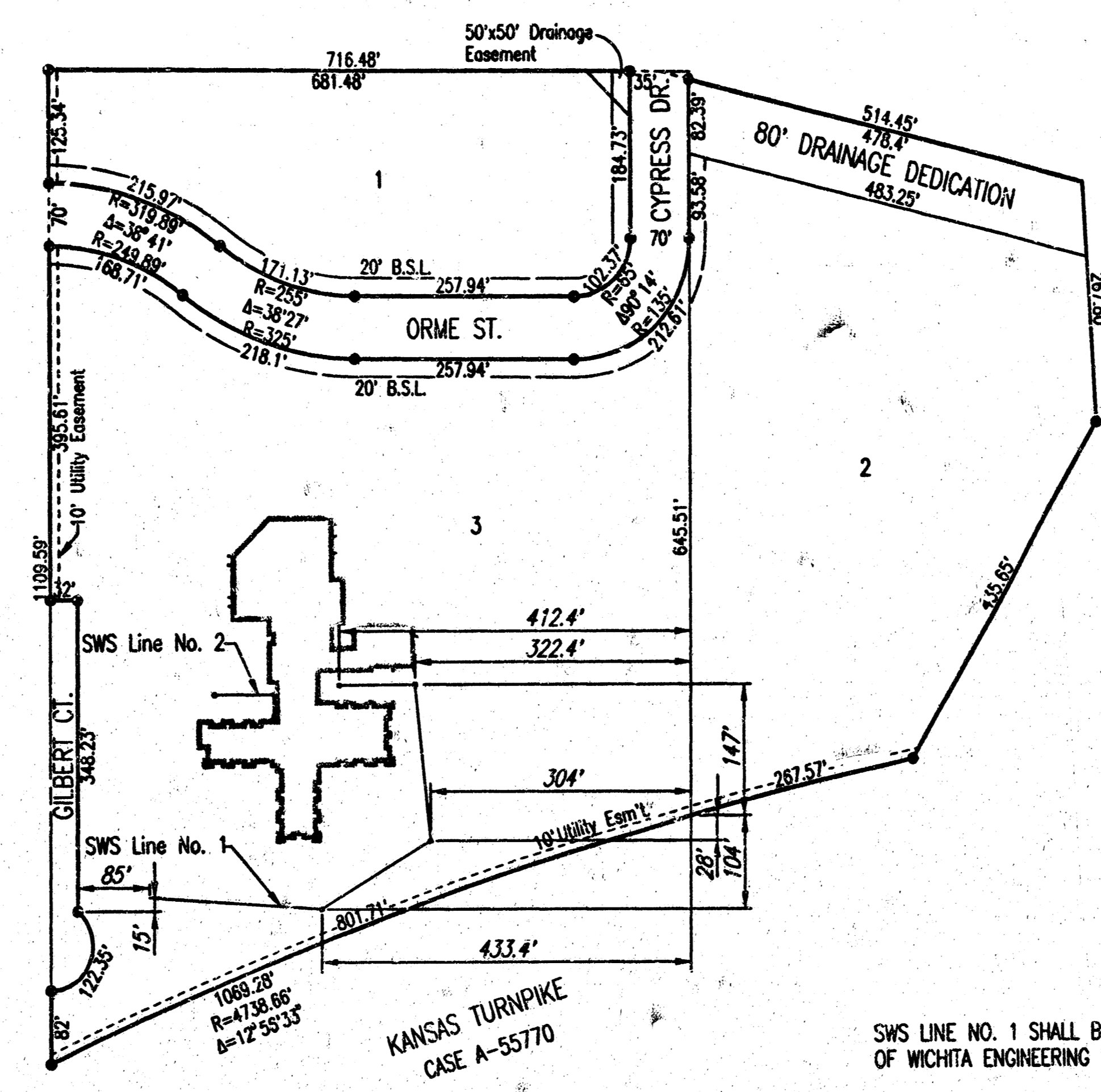
1. TITLE & PLAT
2. SITE GRADING
3. SWS LINE NOS. 1 & 2
4. PAVEMENT & RIPRAP DETAILS
5. AREA INLETS & GRADING DETAILS
6. EROSION CONTROL DETAILS

APPROVED AS NOTED  
 BY CITY ENGINEER OF WICHITA

SANITARY SEWERS \_\_\_\_\_  
 STORM SEWERS VRH 10/2/00  
 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 CONTRACTOR. 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.



SWS LINE NO. 1 SHALL BE REVIEWED BY CITY OF WICHITA ENGINEERING DEPARTMENT.  
 SWS LINE NO. 2 SHALL BE REVIEWED BY CITY OF WICHITA OFFICE OF CENTRAL INSPECTION.

**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 ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

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.S. GAS, PEOPLES NATURAL GAS, K.G.E. ELECTRIC, SOUTHWESTERN BELL TELEPHONE, COX COMMUNICATIONS, 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.

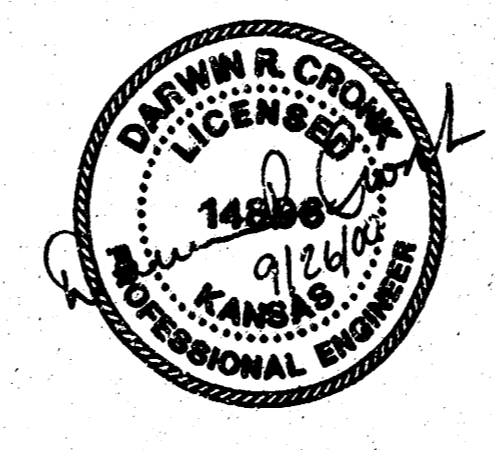
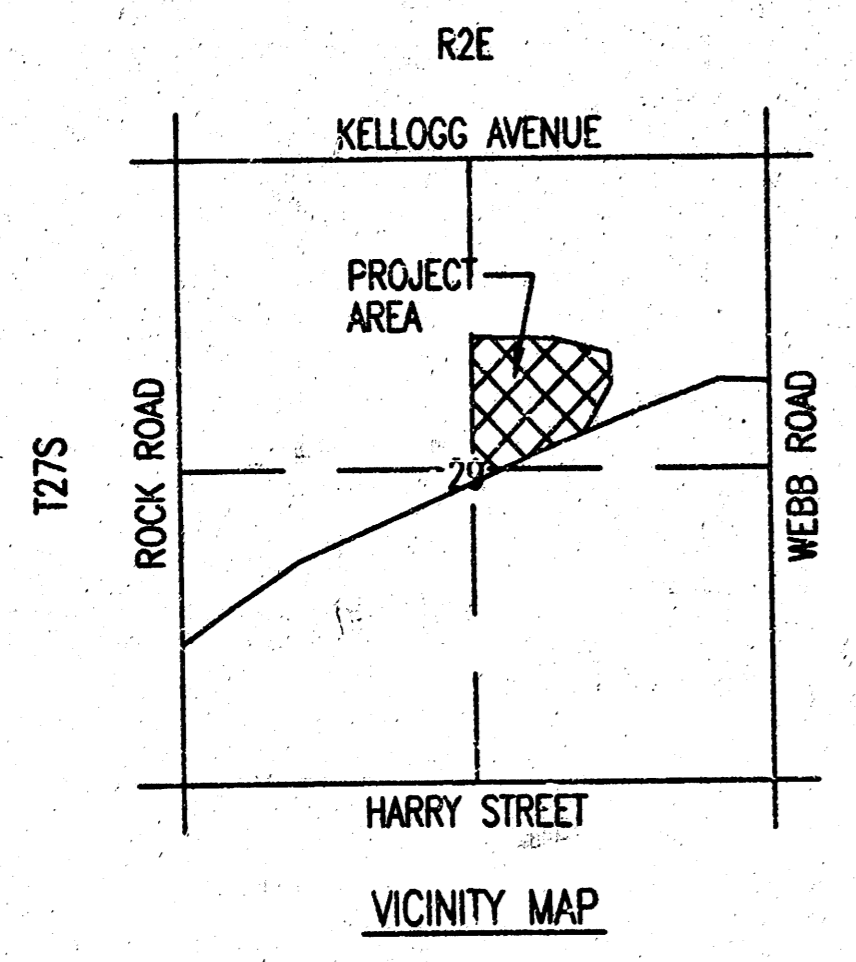
THE WATER DEPARTMENT SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, WATER VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION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

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

A SPRINKLER SYSTEM IS PRESENT IN THE PROJECT AREA. REMOVE AND REPLACE AS NECESSARY TO FACILITATE CONSTRUCTION.

CONTRACTOR TO COORDINATE THE REMOVAL AND REPLACEMENT OF THE EXISTING FIRE LANE ON THE EAST SIDE OF THE PROJECT AREA WITH OWNER.

BOOKED  
 9-17-01  
 MCB  
 D-517



**RECORD DRAWING**  
 APR 12, 2001  
*[Signature]*

SEPTEMBER 2000

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

16-03-04-17

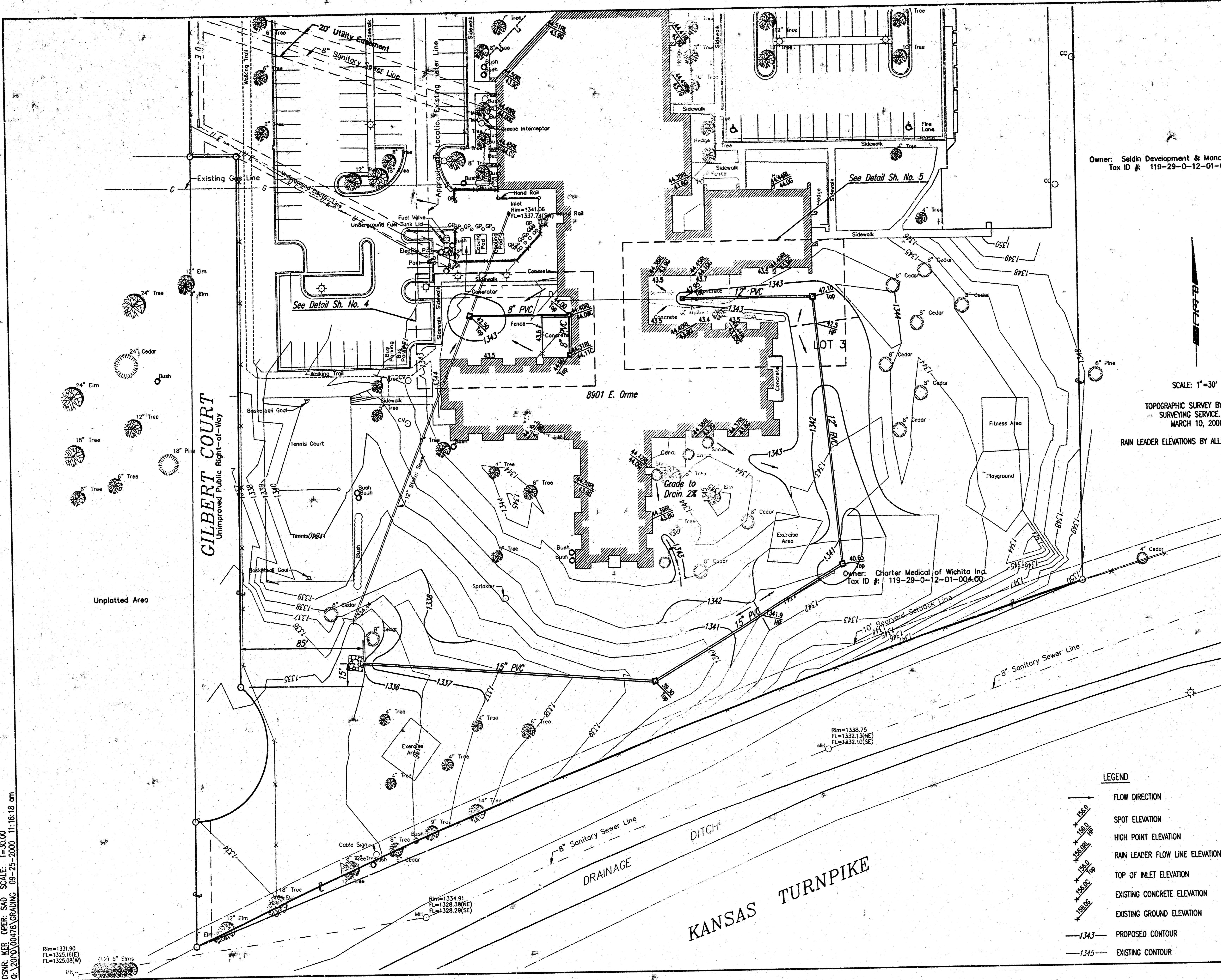
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SHEET NO.	TOTAL SHEETS
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LOT 2  
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 Tax ID #: 119-29-0-12-01-002.00

Owner: Seldin Development & Management Co.  
 Tax ID #: 119-29-0-12-01-003.00

SCALE: 1"=30'  
 TOPOGRAPHIC SURVEY BY GARBER  
 SURVEYING SERVICE, P.A.  
 MARCH 10, 2000  
 RAIN LEADER ELEVATIONS BY ALLIED LABORATORIES



DSUR: KER CPER: SAD SCALE: 1"=30.00  
 Q. 20' 0" 0.0078 GRAVING 09-25-2000 11:16:18 am

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 FL=1325.16(E)  
 FL=1325.08(W)

Rim=1334.91  
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 FL=1328.29(SE)

Rim=1338.75  
 FL=1332.13(NE)  
 FL=1332.10(SE)

Rim=1344.55  
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 FL=1338.06(SE)

Owner: Charter Medical of Wichita Inc.  
 Tax ID #: 119-29-0-12-01-004.00

LEGEND

- FLOW DIRECTION
- SPOT ELEVATION
- HIGH POINT ELEVATION
- RAIN LEADER FLOW LINE ELEVATION
- TOP OF INLET ELEVATION
- EXISTING CONCRETE ELEVATION
- EXISTING GROUND ELEVATION
- 1343— PROPOSED CONTOUR
- 1345— EXISTING CONTOUR

RECORD DRAWING

APR 12, 2001

*Bradley East*

EAST TURNPIKE ENTRANCE 2ND ADDITION

SITE GRADING

Professional Engineering Consultants, P.A.  
 303 S. TOPEKA • WICHITA, KANSAS 67202  
 316-262-2691 • FAX 316-262-3003

Designed by	KER	Checked by	
Drawn by	KER, SAD	Date	SEPT., 2000
		Job No.	00478

SHEET NO.	TOTAL SHEETS
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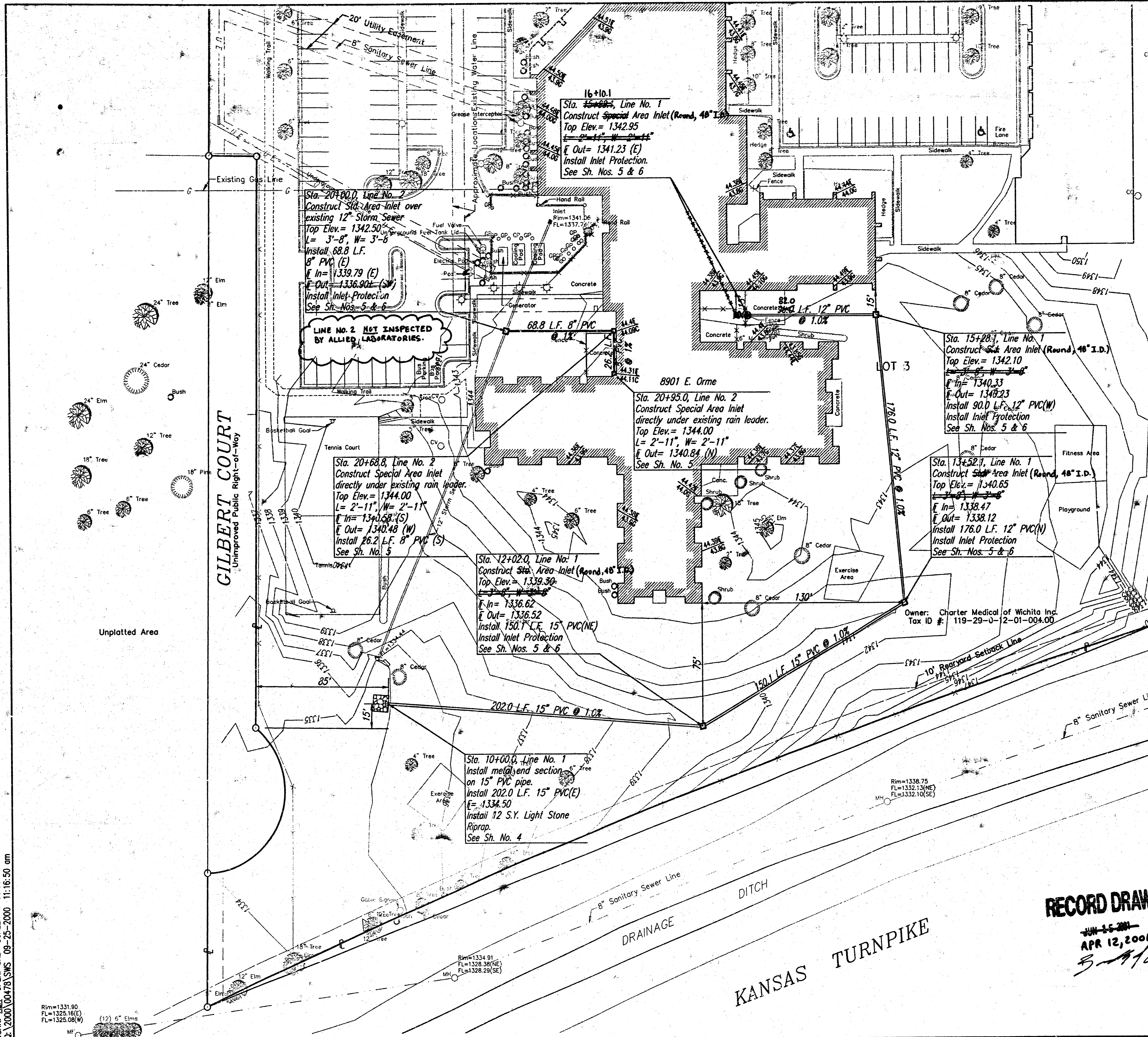
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 Tax ID #: 119-29-0-12-01-002.00

Owner: Seldin Development & Management Co.  
 Tax ID #: 119-29-0-12-01-003.00

SCALE: 1"=30'

TOPOGRAPHIC SURVEY BY GARBER SURVEYING SERVICE, P.A.  
 MARCH 10, 2000  
 RAIN LEADER ELEVATIONS BY ALLIED LABORATORIES

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**RECORD DRAWING**

JUN 15 2001  
 APR 12, 2001  
*[Signature]*

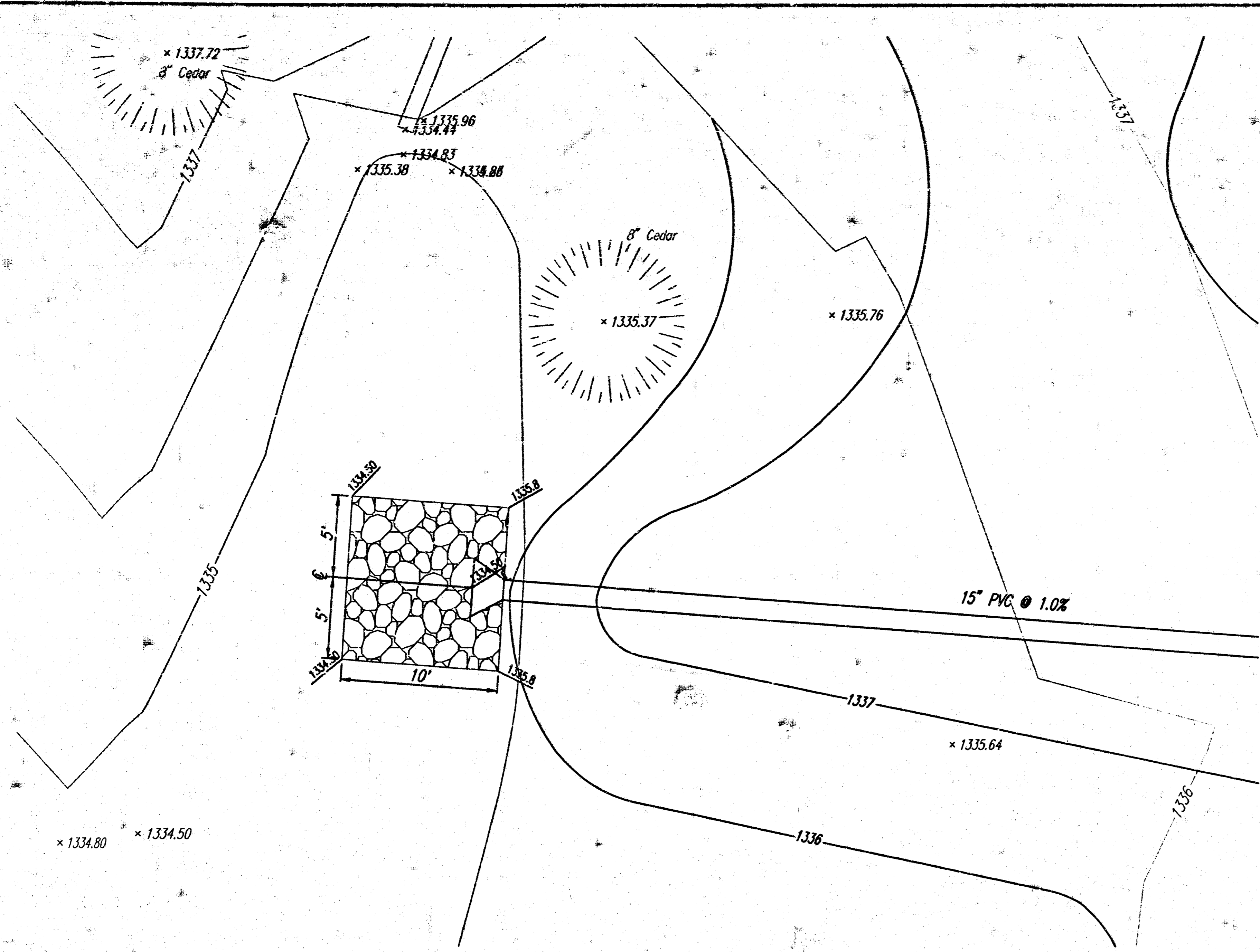
EAST TURNPIKE ENTRANCE 2ND ADDITION

**SWS LINE NOS. 1 & 2**

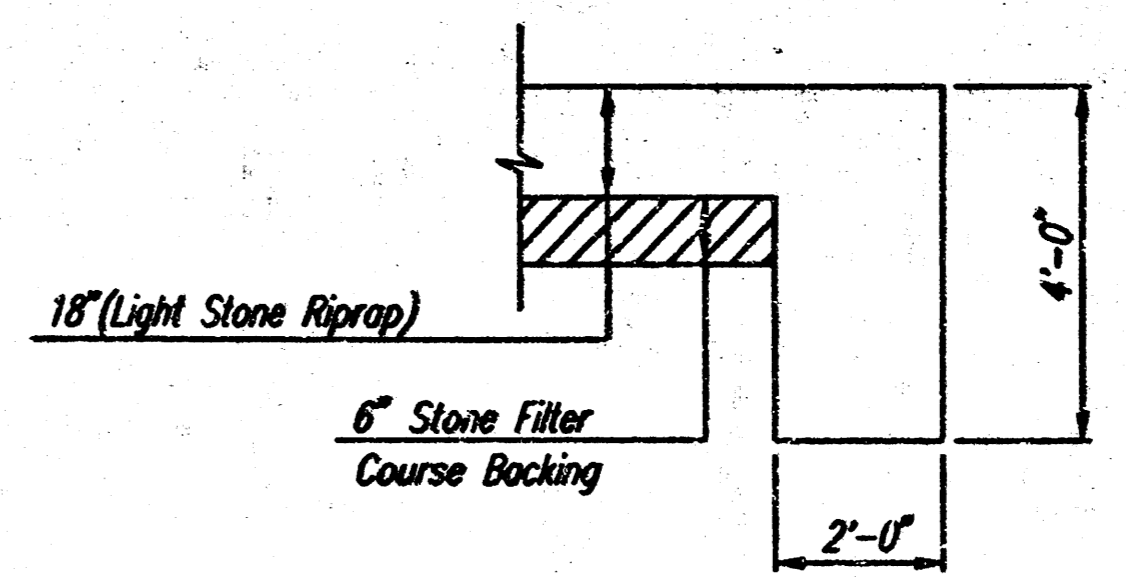
**Professional Engineering Consultants, P.A.**  
 303 S. TOPEKA • WICHITA, KANSAS 67202  
 316-262-2691 • FAX 316-262-3003

Designed by	KER	Checked by	
Drawn by	KER, SAD	Date	SEPT., 2000
		Job No.	00478

SHEET NO.	TOTAL SHEETS
4	6

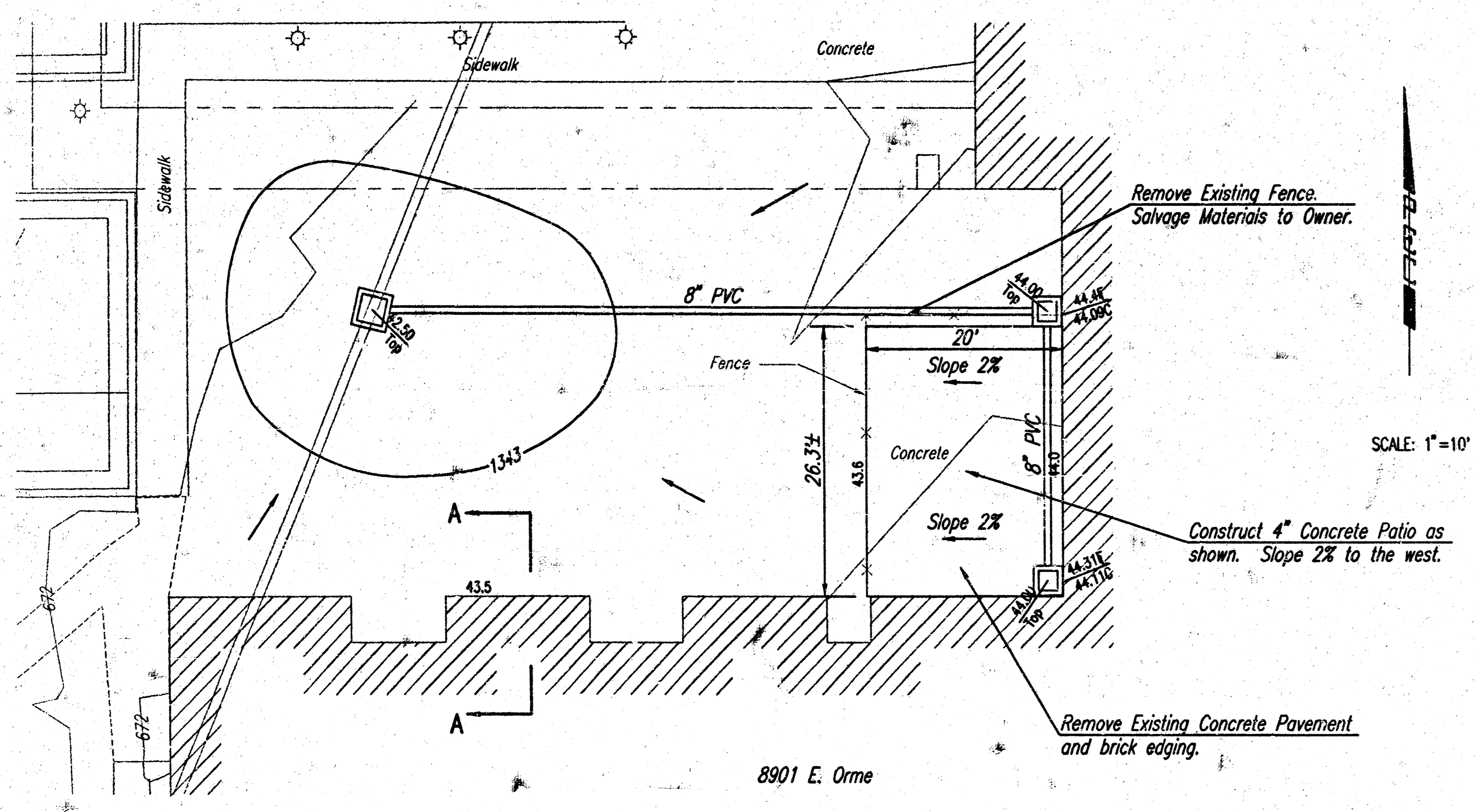


SCALE: 1"=5'



TYPICAL SECTION THRU TOEWALL  
NO SCALE

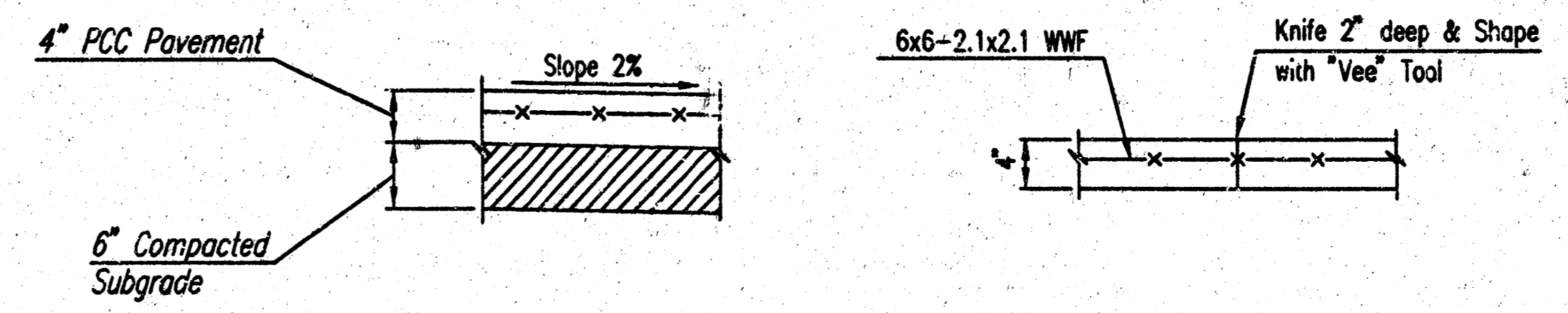
- NOTES
1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIUM DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
  2. TOEWALLS SHALL BE INSTALLED ALONG ALL EDGES OF STONE RIPRAP.
  3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED.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



SCALE: 1"=10'

SEE SH. NO. 5 FOR SECTION A-A

SIDEWALK SHALL BE JOINTED TO FORM MAXIMUM 5' SQUARE PANELS.



SECTION

SIDEWALK DETAILS

CONTRACTION JOINT (Cj)  
Note: No sawn contraction joints will be allowed

RECORD DRAWING

JUN 15 2001  
APR 12, 2001  
*Professional Engineer Signature*

EAST TURNPIKE ENTRANCE 2ND ADDITION

PAVEMENT & RIPRAP DETAILS

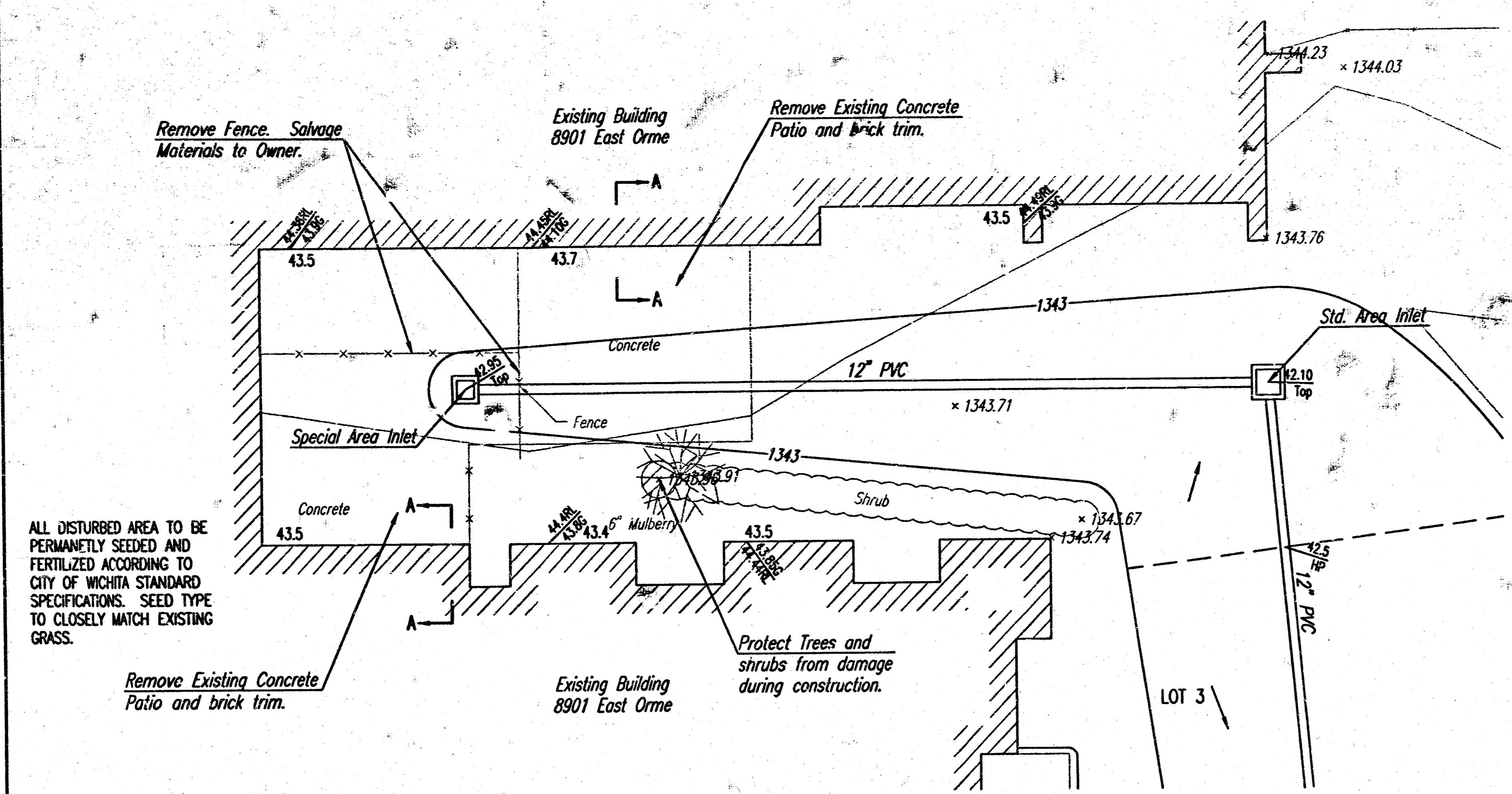
Professional Engineering Consultants, P.A.  
303 S. TOPICKA • WICHITA, KANSAS 67202  
316-262-2691 • FAX 316-262-3093

Designed by	KER	Checked by	
Drawn by	KER, SAO	Date	SEPT 2000
		Job No.	00478

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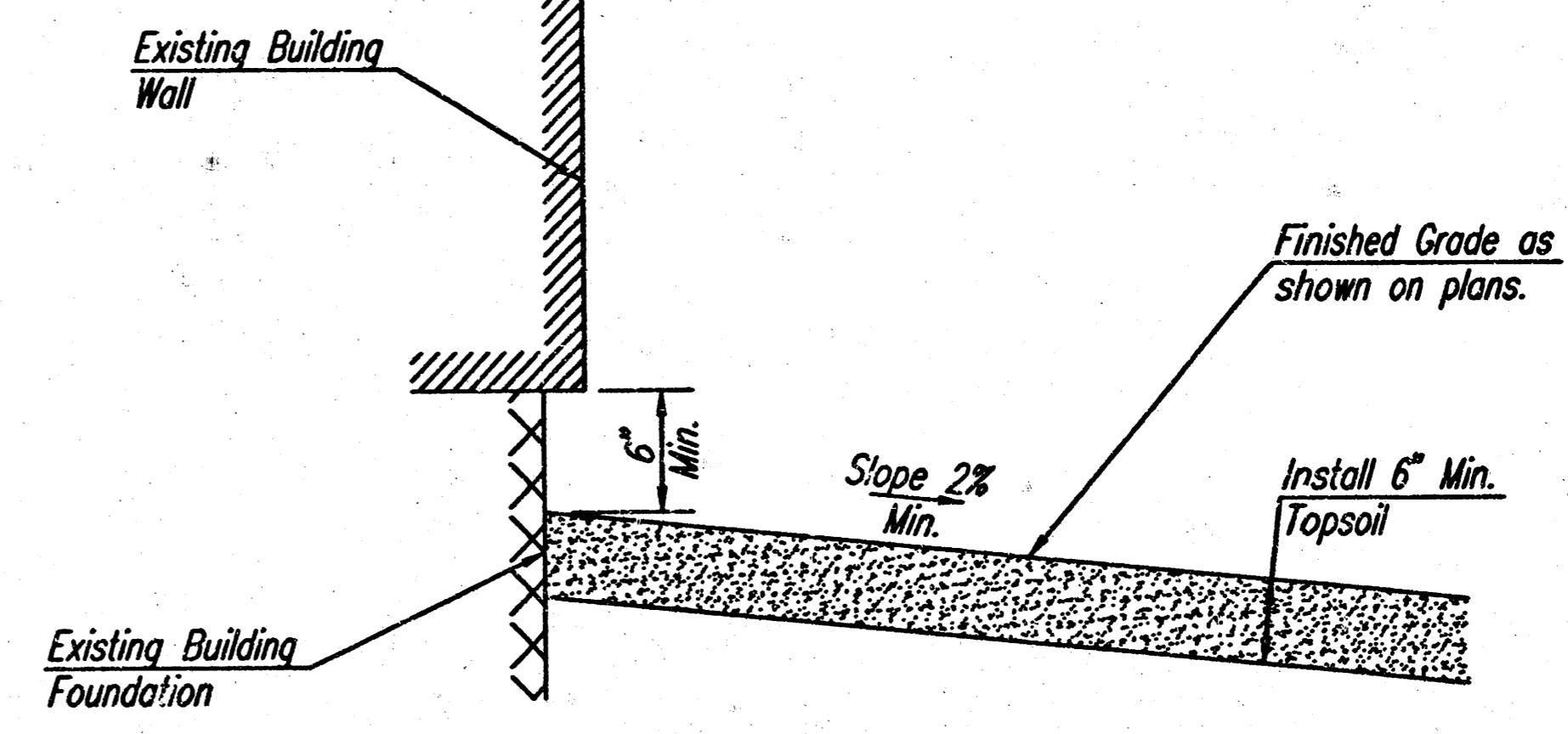
SHEET NO.	TOTAL SHEETS
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 0:20:00 (00:47:3) Detail

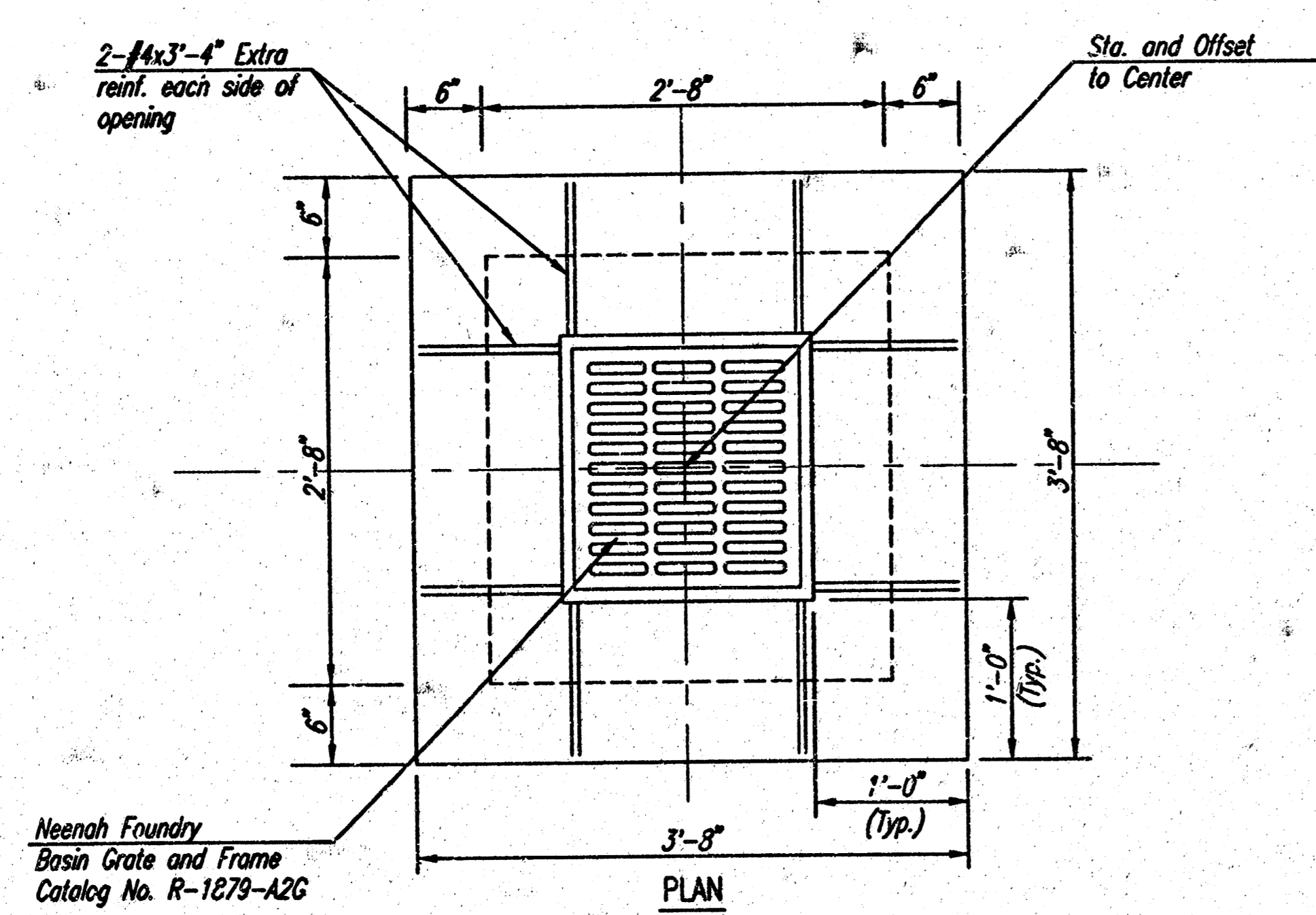


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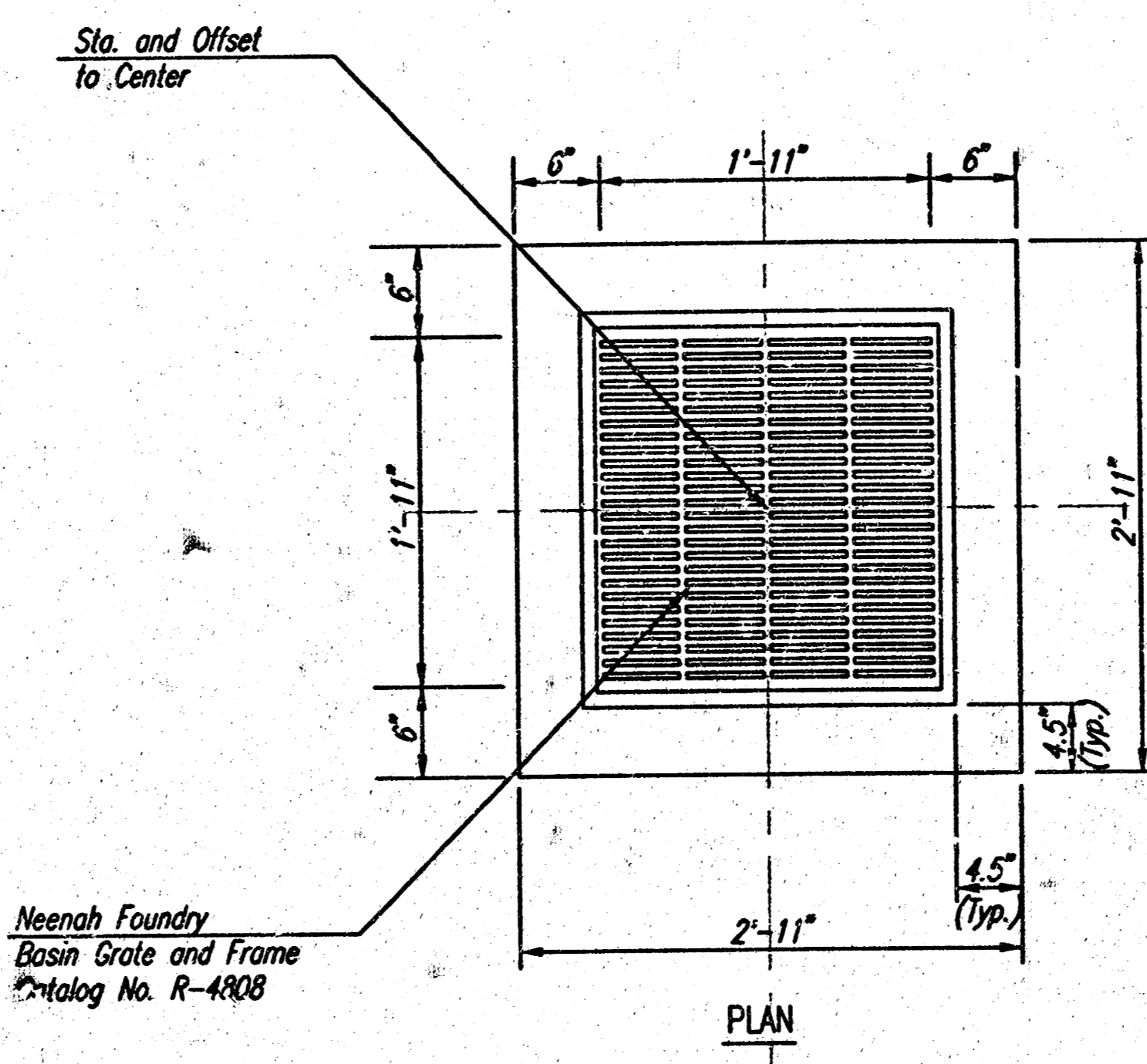
**NOTE:**  
 Contractor shall excavate existing ground to a minimum of 6" below the stucco finish. Contractor shall be required to overexcavate a minimum of 6" and provide 6" of topsoil in all turf area



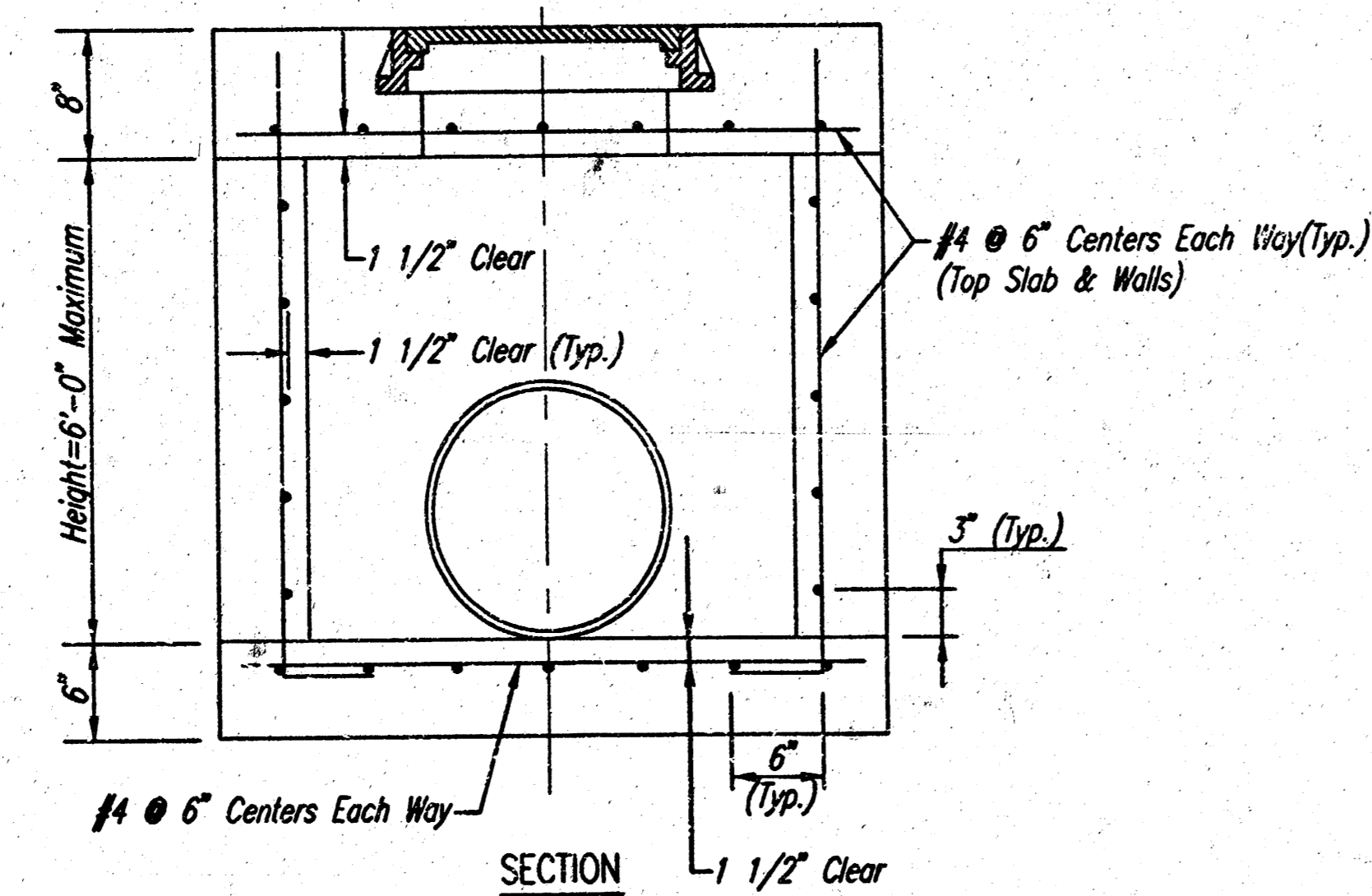
SECTION A-A



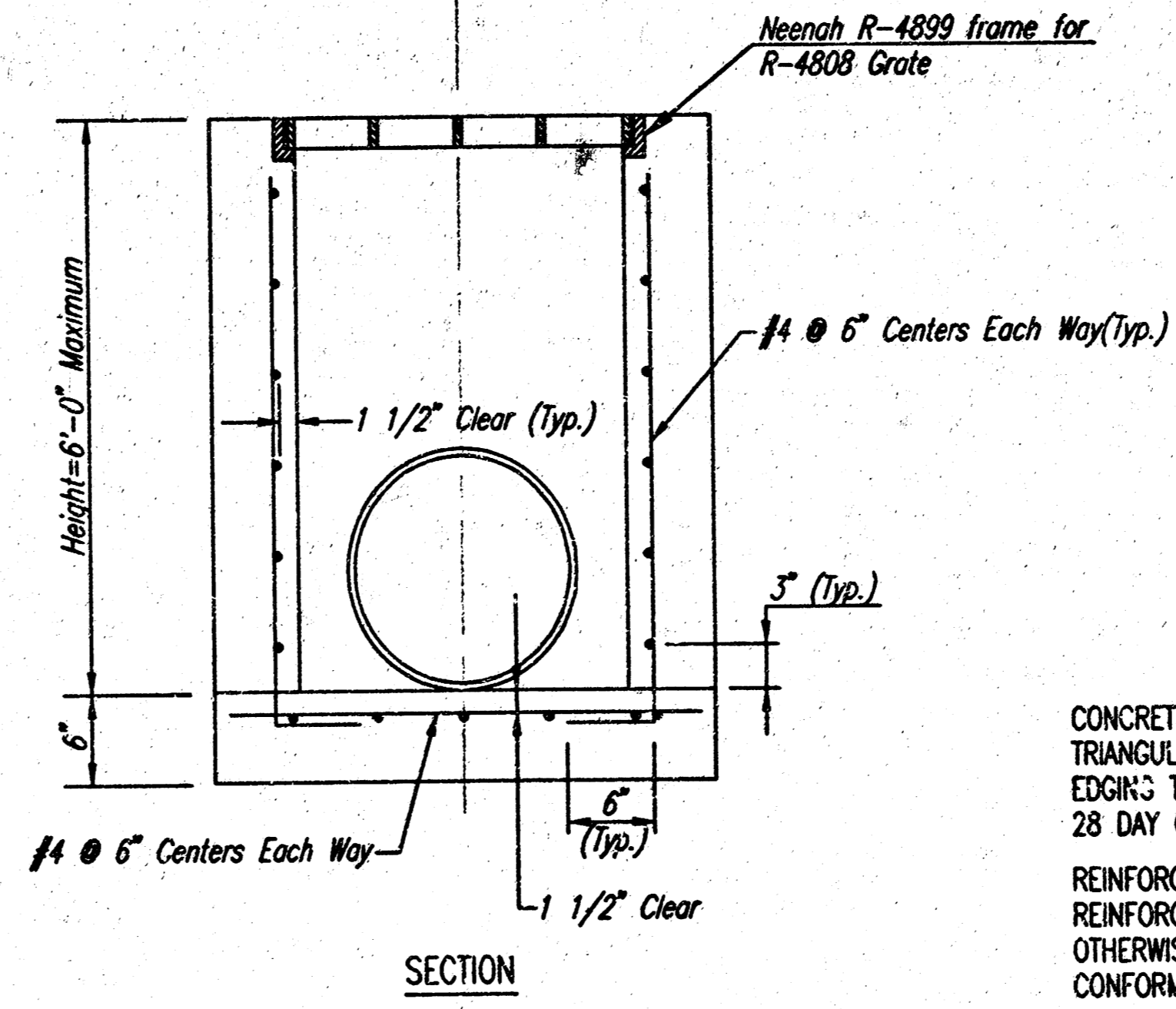
Neenah Foundry  
 Basin Grate and Frame  
 Catalog No. R-1879-A2C



Neenah Foundry  
 Basin Grate and Frame  
 Catalog No. R-4808



AREA INLET DETAIL



SPECIAL AREA INLET DETAIL

**AREA INLET GENERAL NOTES**  
 CONCRETE: BEVEL ALL EXPOSED EDGES WITH A 3/4" TRIANGULAR MOLDING OR FINISH WITH AN APPROVED EDGING TOOL. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.  
 REINFORCING STEEL: ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A615 GRADE 60.

**RECORD DRAWING**

APR 12, 2001

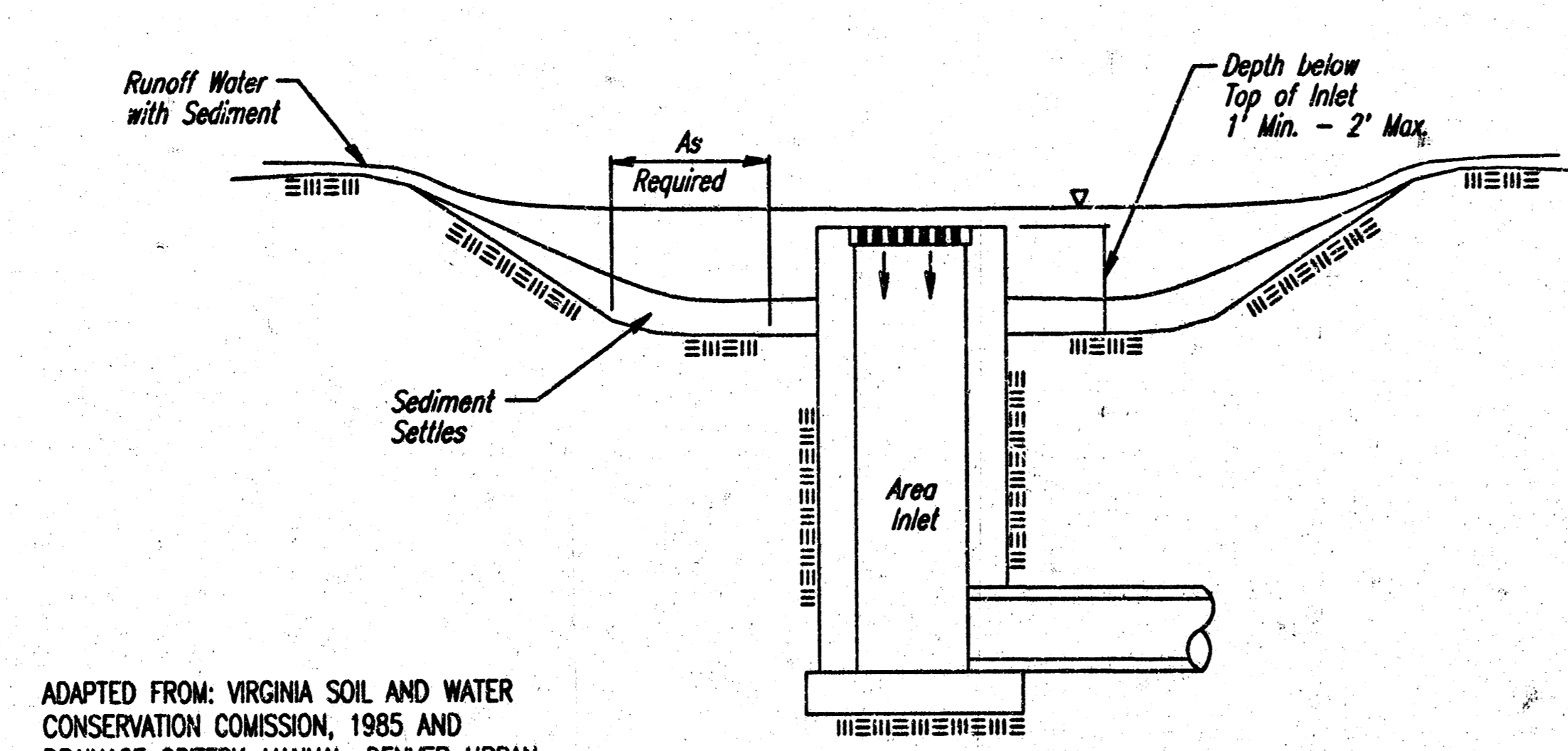
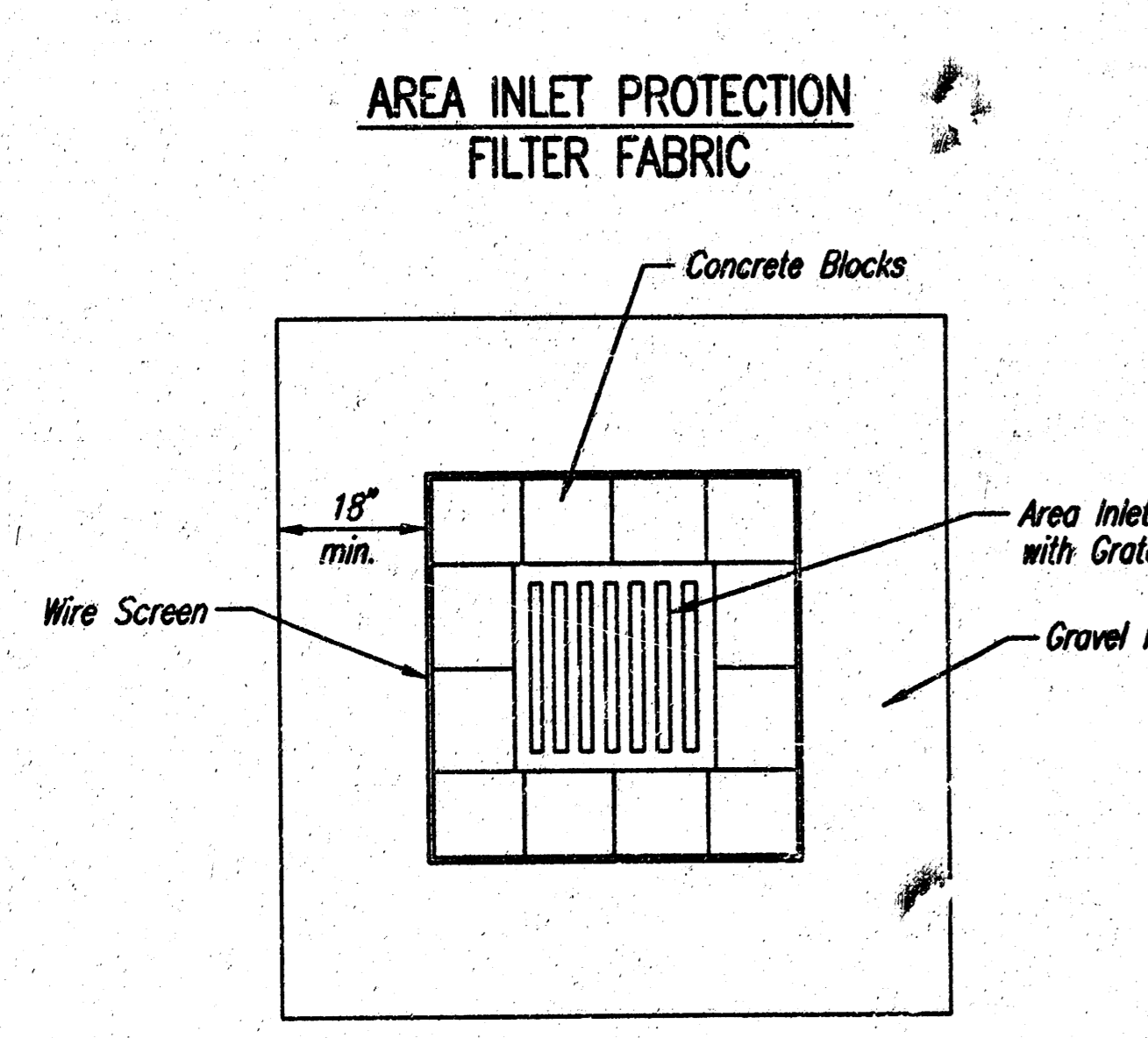
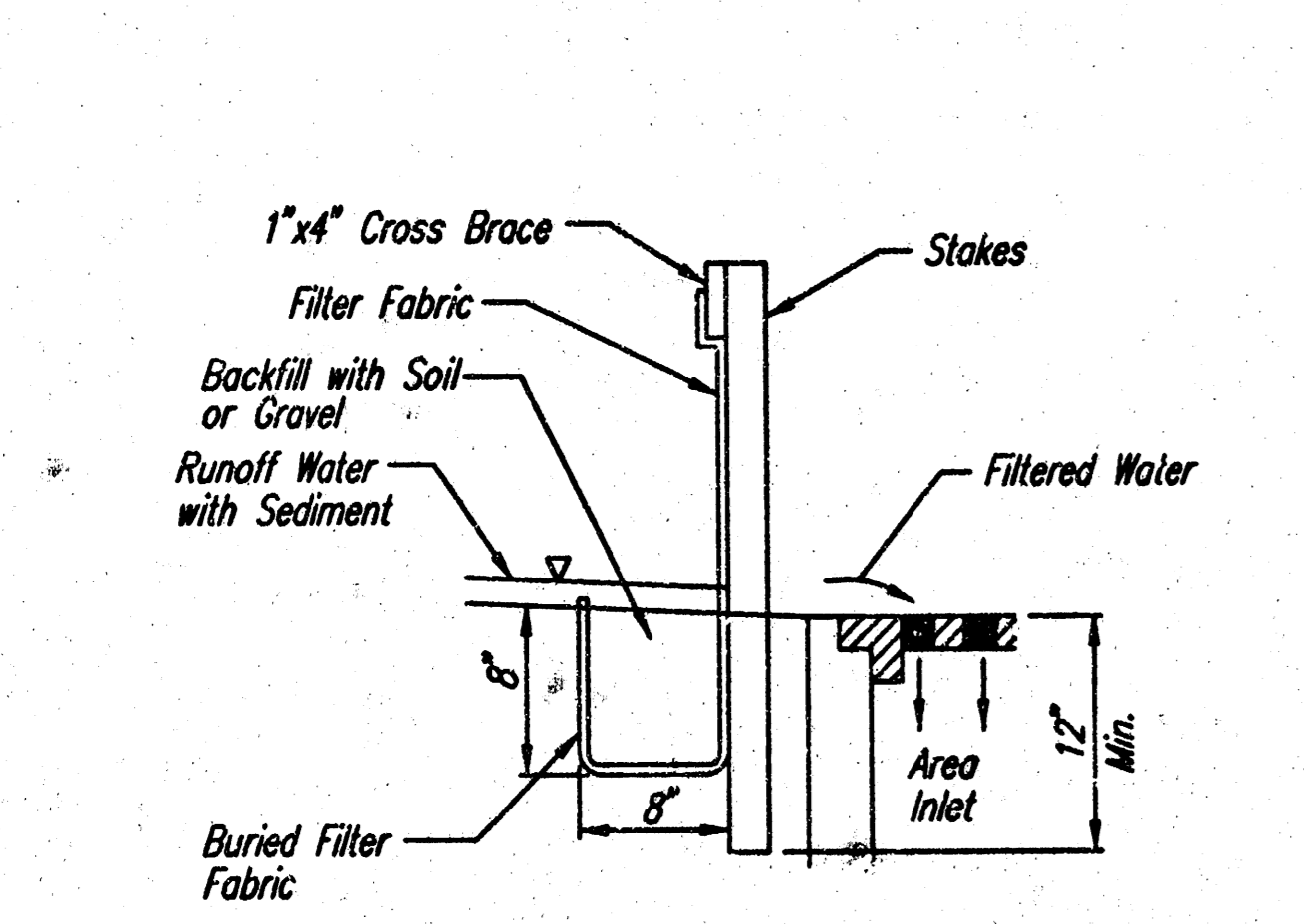
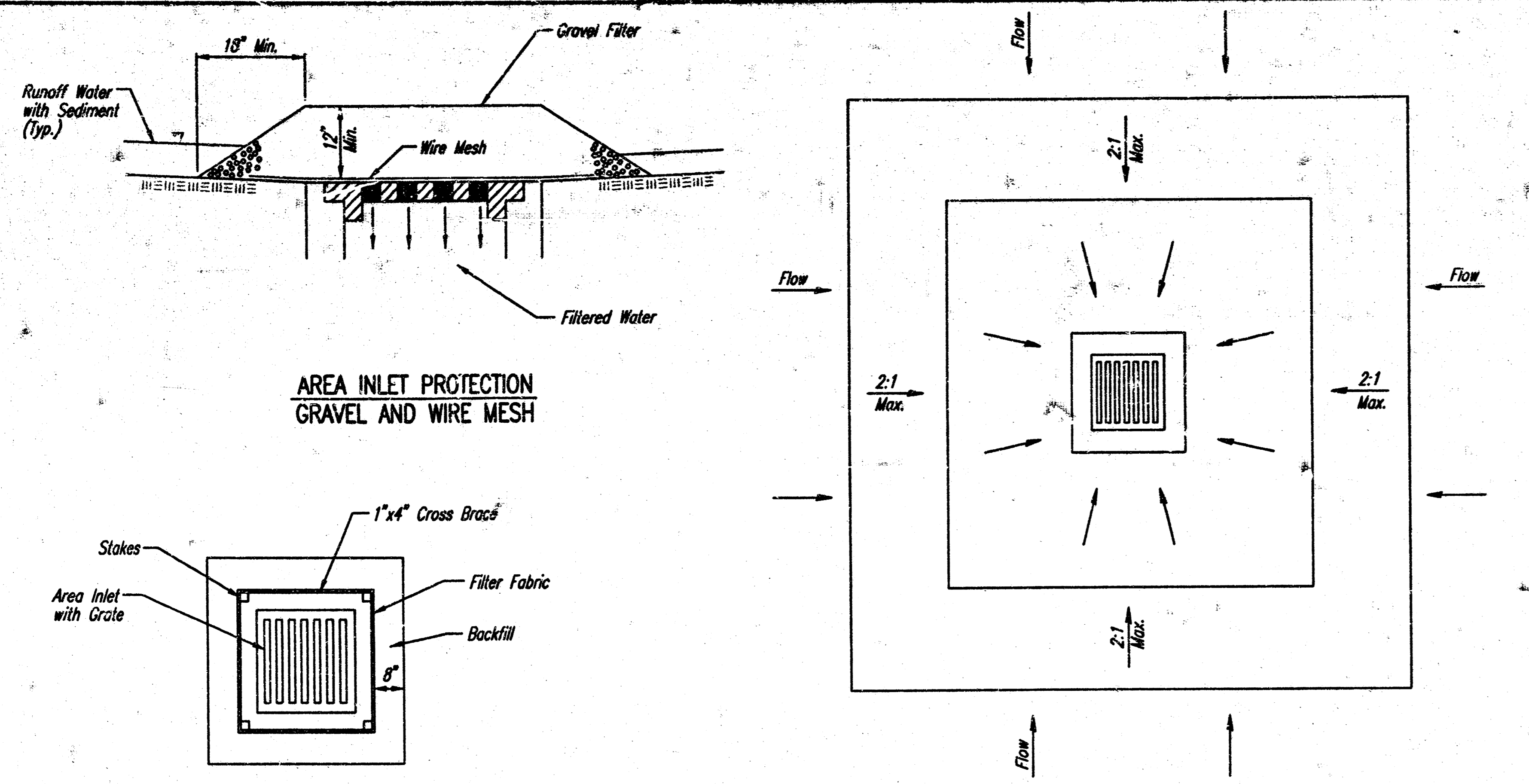
*Handwritten signature*

EAST TURNPIKE ENTRANCE 2ND ADDITION

**AREA INLETS & GRADING DETAILS**

Professional Engineering Consultants, P.A.  
 303 S. TOPEKA • WICHITA, KANSAS 67202  
 316-262-2691 • FAX 316-262-3003

Designed by	KER	Checked by	
Drawn by	KER, SMD	Date	SEPTEMBER, 2000 Job No. 00478

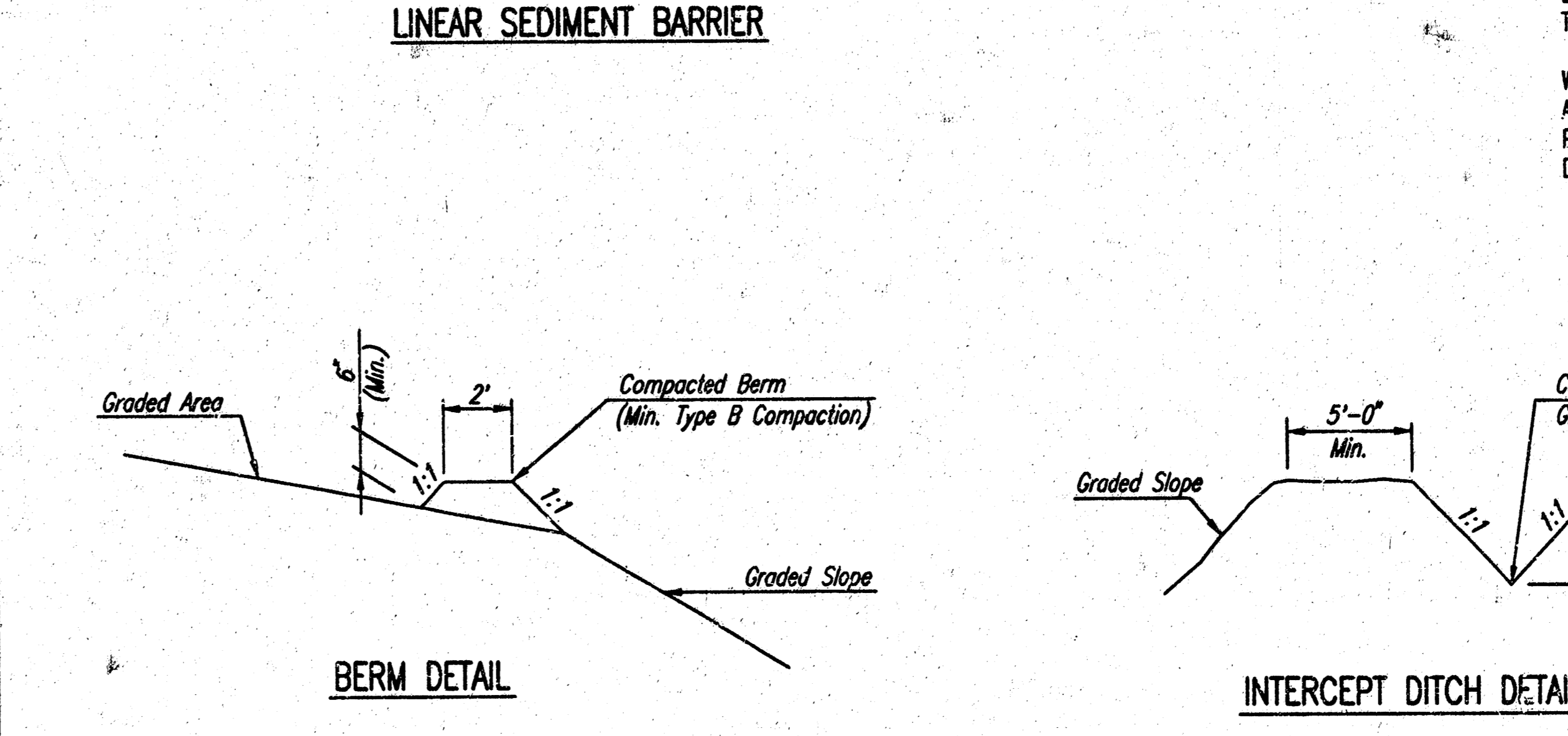
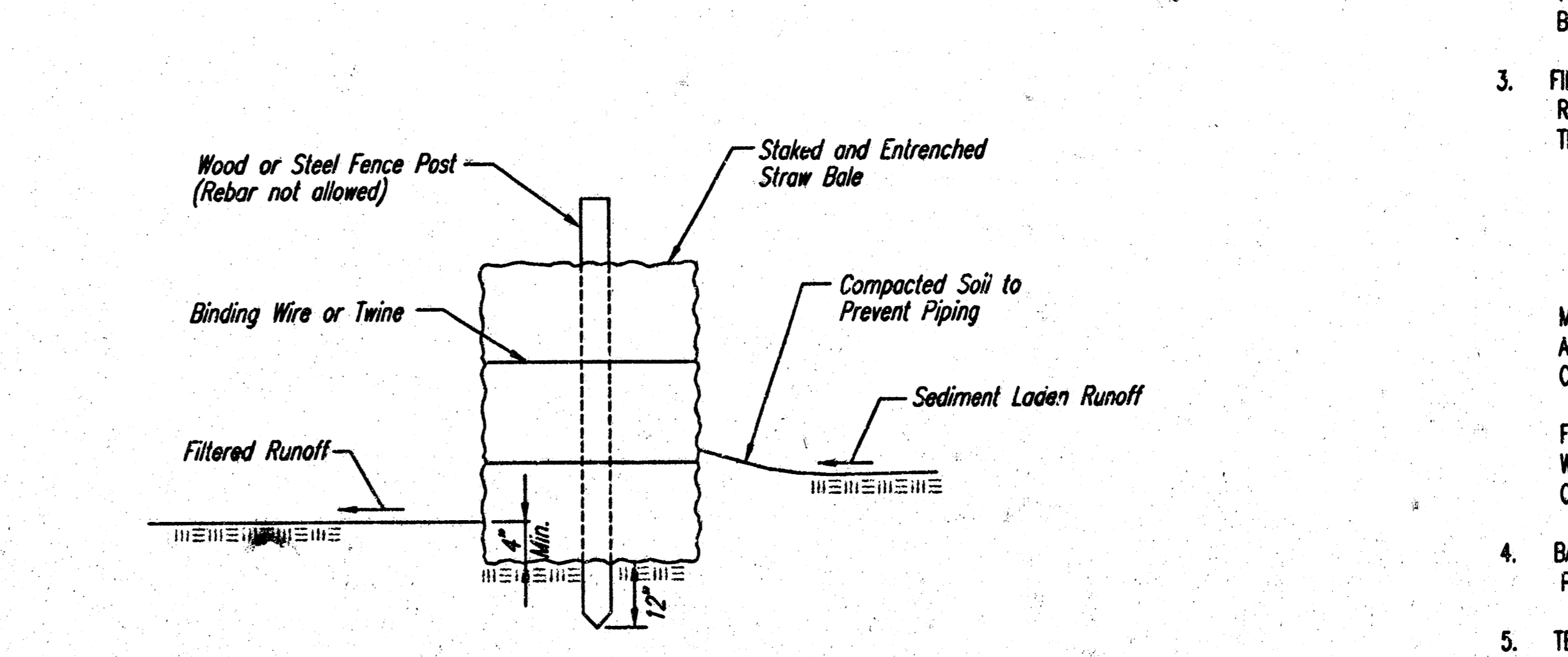
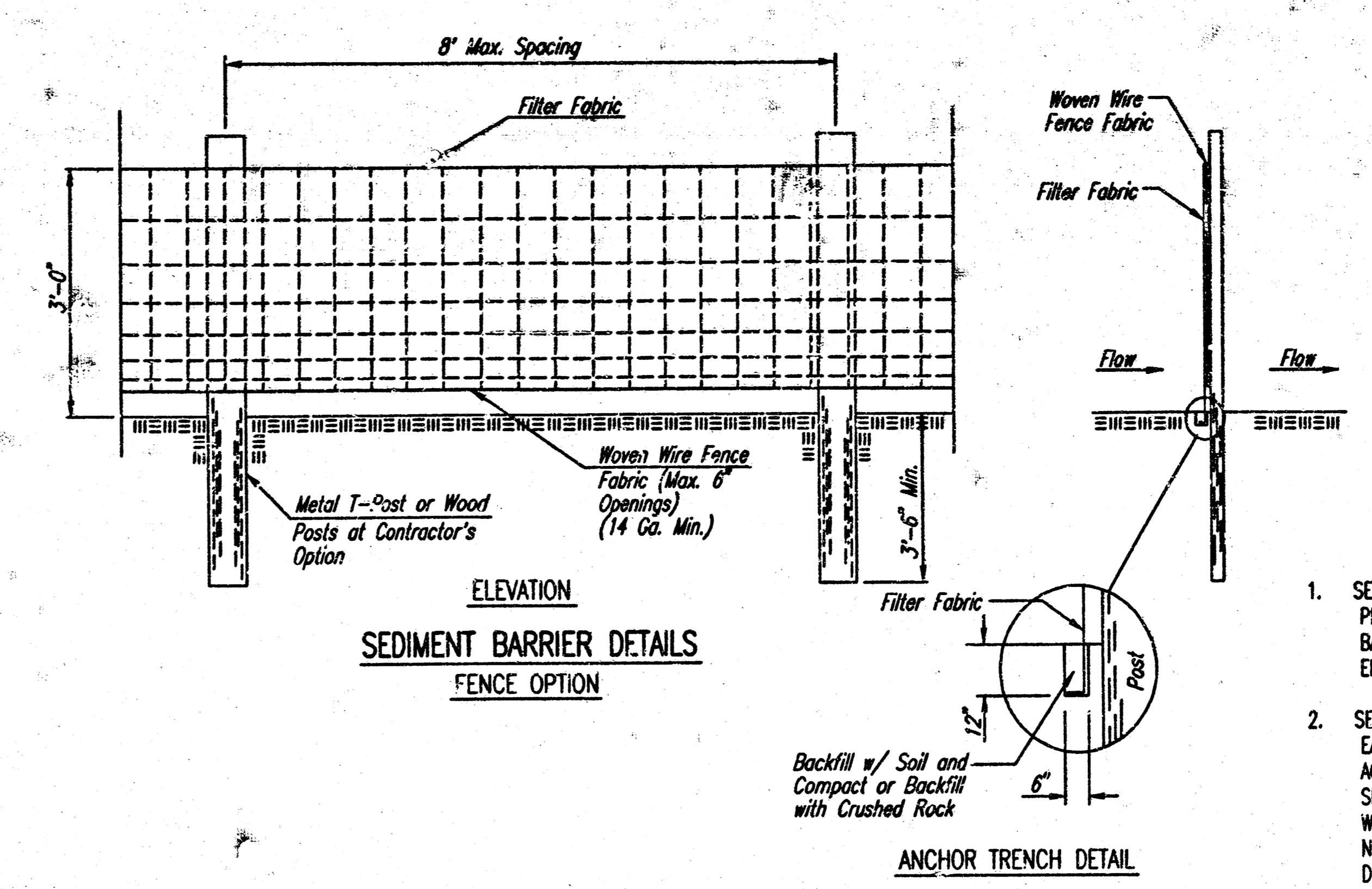


ADAPTED FROM: VIRGINIA SOIL AND WATER CONSERVATION COMMISSION, 1985 AND DRAINAGE CRITERIA MANUAL, DENVER URBAN DRAINAGE AND FLOOD CONTROL DISTRICT 9-1-92

NOTE: INLET SIZE MAY VARY FROM THAT SHOWN.

- GENERAL NOTES  
INLET PROTECTION**
1. INLET PROTECTION METHOD MAY BE ANY OF THE APPLICABLE TYPES SHOWN, AT THE CONTRACTOR'S OPTION.
  2. GRAVEL FILTER SHALL BE A DURABLE, WELL-GRADED SAND-GRAVEL OR CRUSHED STONE, MAXIMUM 1-1/2 IN. SIZE. 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:
 

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



**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.

- GENERAL NOTES  
LINEAR SEDIMENT BARRIER**
1. 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.
  2. 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 DISPOSAL OF BY THE OWNER AFTER TURF COVER HAS BEEN ESTABLISHED, UNLESS OTHER ARRANGEMENTS HAVE BEEN AGREED TO.
  3. FILTER FABRIC FOR FENCE OPTION SEDIMENT BARRIERS SHALL BE RESISTANT TO ULTRAVIOLET LIGHT. MATERIALS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:
 

MIRAFL, 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.
4. BALES USED FOR SEDIMENT BARRIERS MAY BE EITHER HAY OR STRAW, PROVIDED THEY ARE SOUND AND INTACT.
  5. TEMPORARY EROSION CONTROL BERMS AND/OR INTERCEPT DITCHES SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 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.

**RECORD DRAWING**

JUN 12 2001

APR 12, 2001

*Bulk/Esteb*

EAST TURNPIKE ENTRANCE 2ND ADDITION

**EROSION CONTROL DETAILS**

Professional Engineering Consultants, P.A.  
303 S. TOPEKA • WICHITA, KANSAS 67202  
316-262-2691 • FAX 316-262-3003

Designed by	BER	Checked by	
Drawn by	DEP	Date	SEPT 2000
		Job No.	00473

DSNR: KER OPER. S4D SCALE: 1"=1.00' 05-25-2000 11:17:53 am  
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