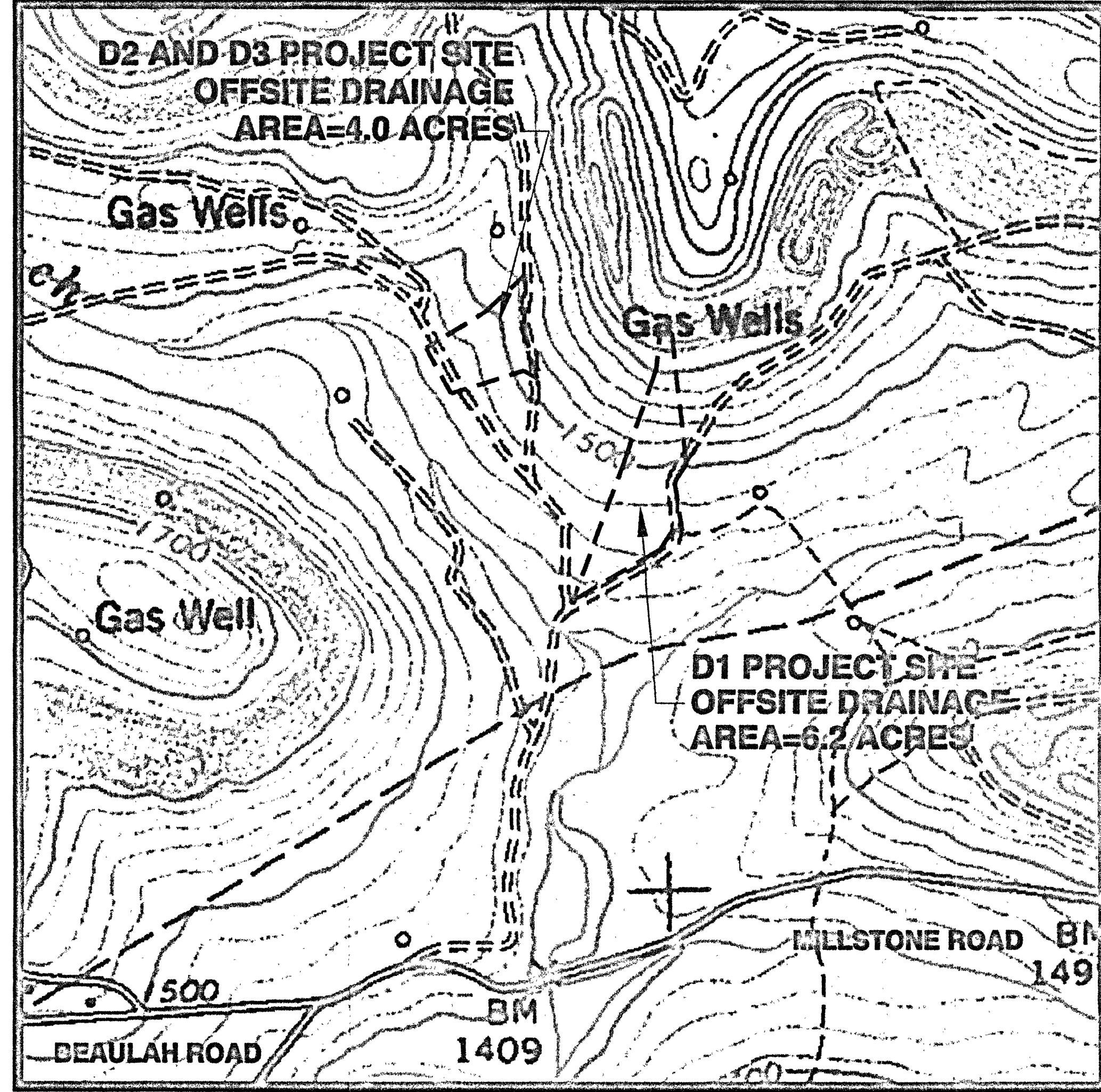
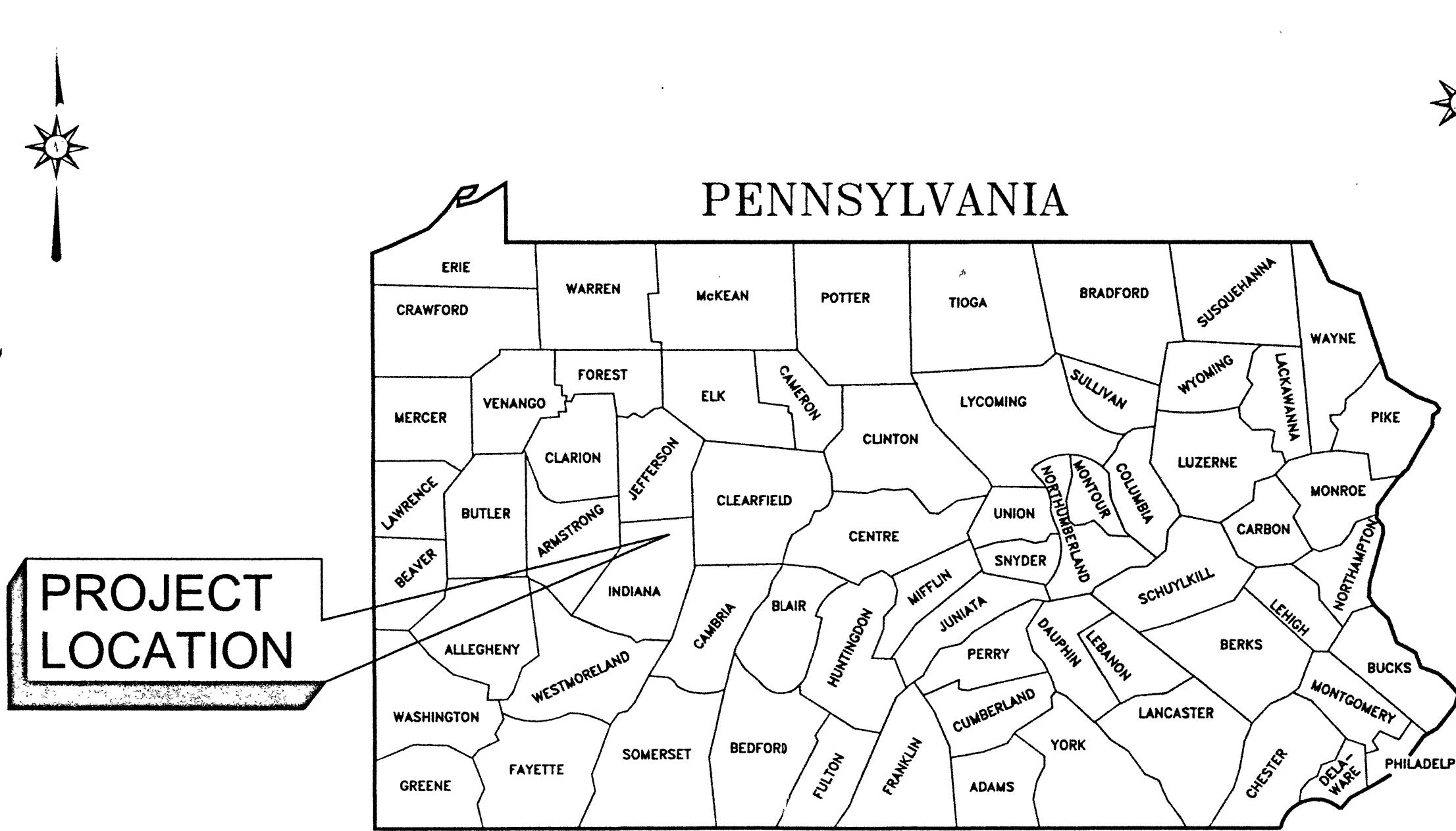


SCALE: 1" = 2,000'
ROCHESTER MILLS USGS QUAD



SCALE: 1" = 500'
ROCHESTER MILLS USGS QUAD

CESSNA RUN ACID MINE DRAINAGE PROJECT

CANOE TOWNSHIP, INDIANA COUNTY, PA

INDEX

DRAWING NO.	DESCRIPTION
C-1	COVER SHEET
C-2	D1 SITE PLAN
C-3	D2 AND D3 SITE PLAN
C-4	D2 AND D3 E&S CONTROL PLAN
C-5	D2 AND D3 DETAILS
C-6	D2 AND D3 DETAILS
C-7	D2 AND D3 DETAILS

SKELLY AND LOY, Inc.
Engineers-Consultants

2601 North Front Street
Harrisburg, Pennsylvania 17110
(717) 232-0593
1-800-892-6532
Fax (717) 232-1799

FEBRUARY 25, 2005

REVISIONS

DESCRIPTION	DATE

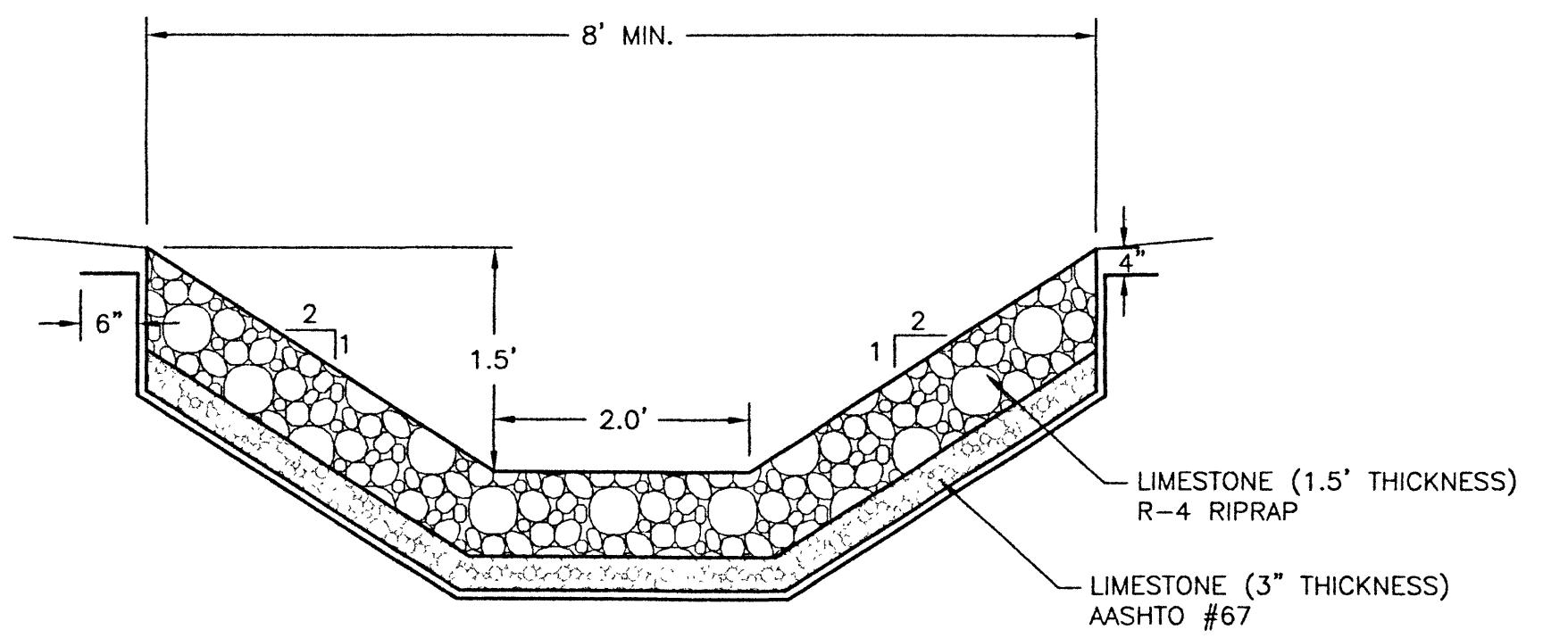
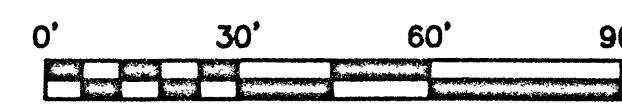
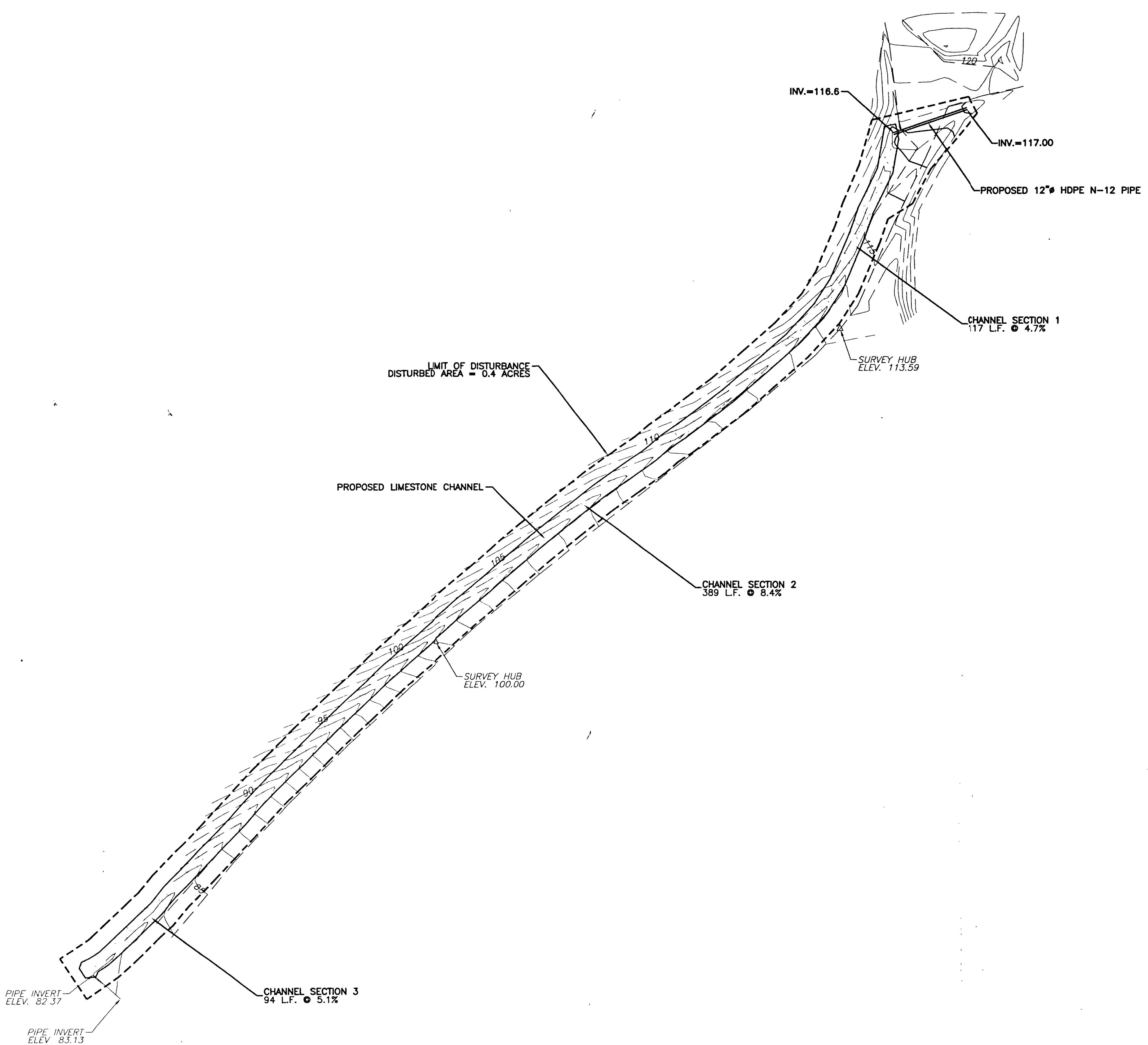
DRAWING NO.
C-2
FOR
INDIANA COUNTY CONSERVATION DISTRICT
CESSNA RUN AND REMEDIATION PROJECT
INDIANA COUNTY, PA
CANCE TOWNSHIP
SHEET
2 OF 7

DSN: N.A.W. 2/25/05
DTSN: N.A.W. 2/25/05
CHR: T.W.S. 2/25/05
APV:

SCALE 1" = 30'
REV: DESCRIPTION
BT APV DATE

SKELLY AND LOY, INC.
ENGINEERS-CONSULTANTS
2010 NORTH FRONT STREET
HARRISBURG, PENNSYLVANIA
(717) 232-4020 (717) 232-4222 FAX (717) 232-1750
email: skellyloy@skellyloy.com

JOB NUMBER:
150398
DATE:
DECEMBER 3
2004



TYPICAL LIMESTONE CHANNEL SECTION
NO SCALE

CONSTRUCTION SEQUENCE

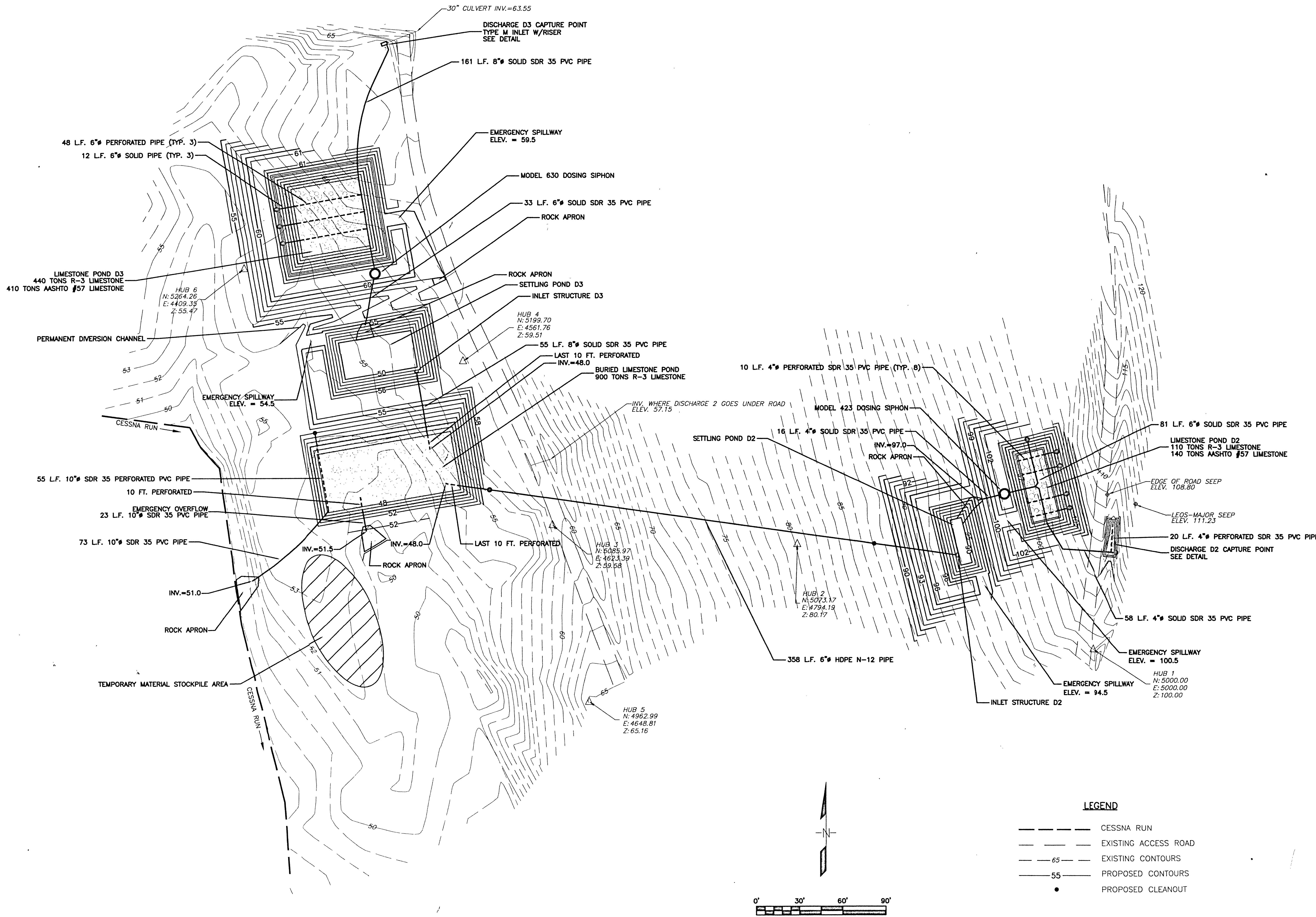
- MOBILIZE EQUIPMENT AND PERSONNEL TO SITE.
- PERFORM CLEARING AND GRUBBING OPERATIONS OF WORK AREAS AS NECESSARY.
- EXCAVATE EXISTING CHANNEL TO ACCOMODATE CLASS 4 GEOTEXTILE AND LIMESTONE PLACEMENT. OVER-EXCAVATION IS REQUIRED TO PRODUCE FINAL CHANNEL DIMENSIONS. EXCAVATION SHALL TAKE PLACE IN STAGES WITH EACH STAGE EXCAVATING ONLY AS MUCH CHANNEL AS CAN BE ROCK LINED AND STABILIZED IN A THE SAME DAY.
- PLACE CLASS 4 GEOTEXTILE IN EXCAVATED CHANNEL AS SHOWN ON DRAWING.
- PLACE AASHTO #67 LIMESTONE IN CHANNEL OVER CLASS 4 GEOTEXTILE.
- PLACE R-4 LIMESTONE IN CHANNEL ON TOP OF AASHTO #67 LIMESTONE.
- SEED AND MULCH SITE.
- REMOVE ALL CONSTRUCTION WASTE FROM SITE.
- REMOVE EROSION AND SEDIMENT CONTROLS ONCE 70% VEGETATIVE COVER HAS BEEN ACHIEVED.

LEGEND

— — —	EXISTING ACCESS ROAD
— 105 —	EXISTING CONTOURS
— 55 —	PROPOSED CONTOURS
- - -	LIMIT OF DISTURBANCE
[solid line]	PROPOSED LIMESTONE CHANNEL

NOTES:

- THE MAPPING SHOWN ON THIS PLAN WAS PROVIDED BY THE NATURAL RESOURCES CONSERVATION SERVICE.
- THE CONTRACTOR SHALL EXCAVATE THE PROPOSED CHANNEL LOCATION IN ORDER TO PROVIDE THE NECESSARY LIMESTONE IN ACCORDANCE WITH THE LIMESTONE CHANNEL SECTION SHOWN ON THIS SHEET.



SKELLY AND LOY, INC.
ENGINEERS-CONSULTANTS
2301 NORTH FRONT STREET

HARRISBURG, PENNSYLVANIA
1-800-444-1234 FAX 717-657-0003

INDIANA COUNTY CONSERVATION DISTRICT

CESSNA RUN AND REMEDIATION PROJECT

NOE TOWNSHIP

INDIANA COUNTY

D2 AND D3 SITE PLAN

E 1" = 30'

SKEELLY AND LOY, INC.
ENGINEERS-CONSULTANTS

2301 NORTH FRONT STREET
HARRISBURG, PENNSYLVANIA
(717) 233-0593 (717) 233-1779
skeelyloy.com

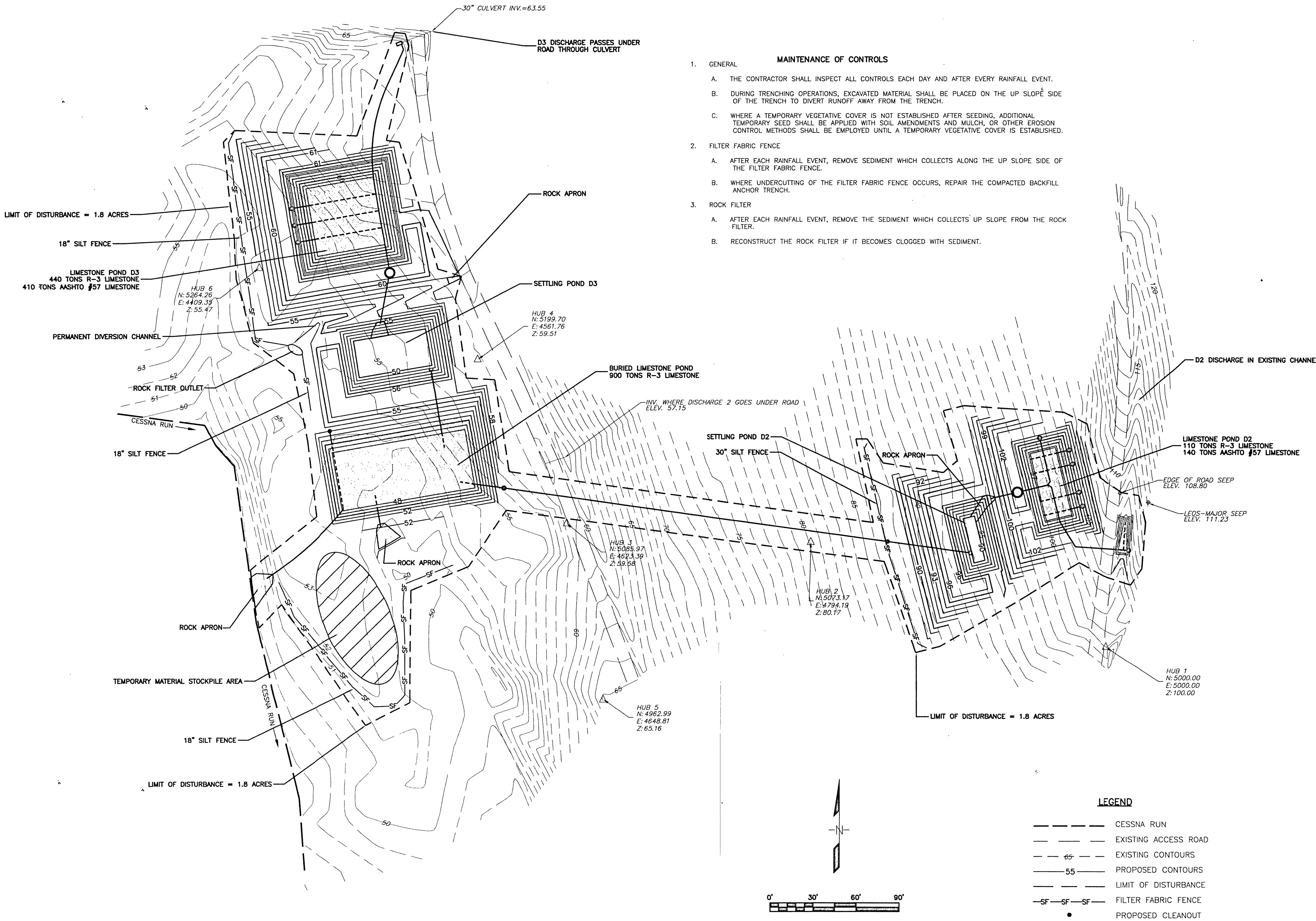
1503298

TE: FEBRUARY 25
2005

DSN: 2/25/05
N.A.W.
DTSNN: 2/25/05
N.A.W.
CHR: 2/25/05
T.W.S.
APV:

SCALE: 1" = 30'
REV:
DESCRIPTION:
BY: APV: DATE:

SKELLY AND LOY, INC.
ENGINEERS-CONSULTANTS
220 NORTH FRONT STREET
HARRINGTON, PENNSYLVANIA
PHONE: (724) 422-3222 FAX: (724) 423-7789
email: skellyloy@skellyloy.com



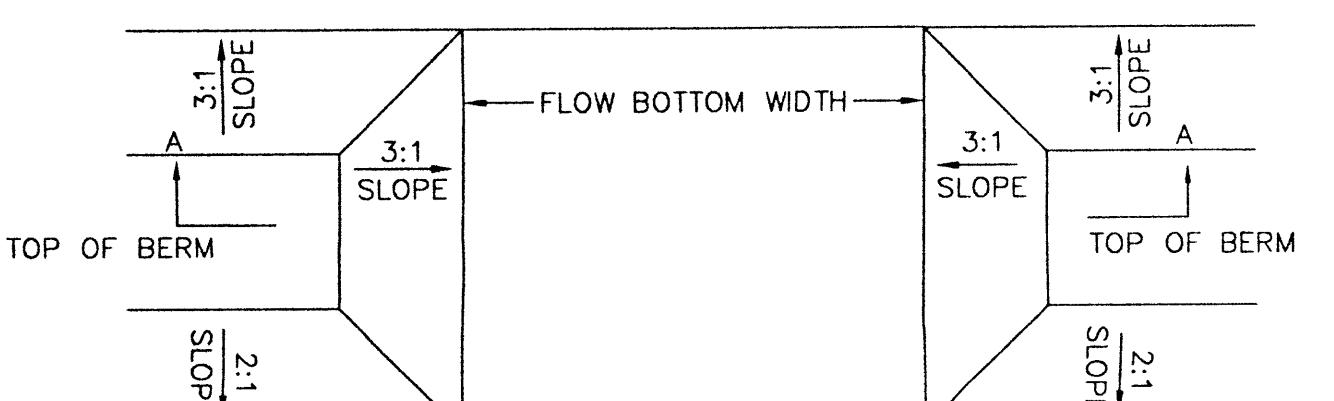
JOB NUMBER: 1503298
DATE: FEBRUARY 25 2005

DESIGN DATE	APRV DATE
N.A.W.	2/25/05
OFF-SAN	2/25/05
CHRR	2/25/05
T.W.S.	2/25/05
APPN	

SCALE AS SHOWN

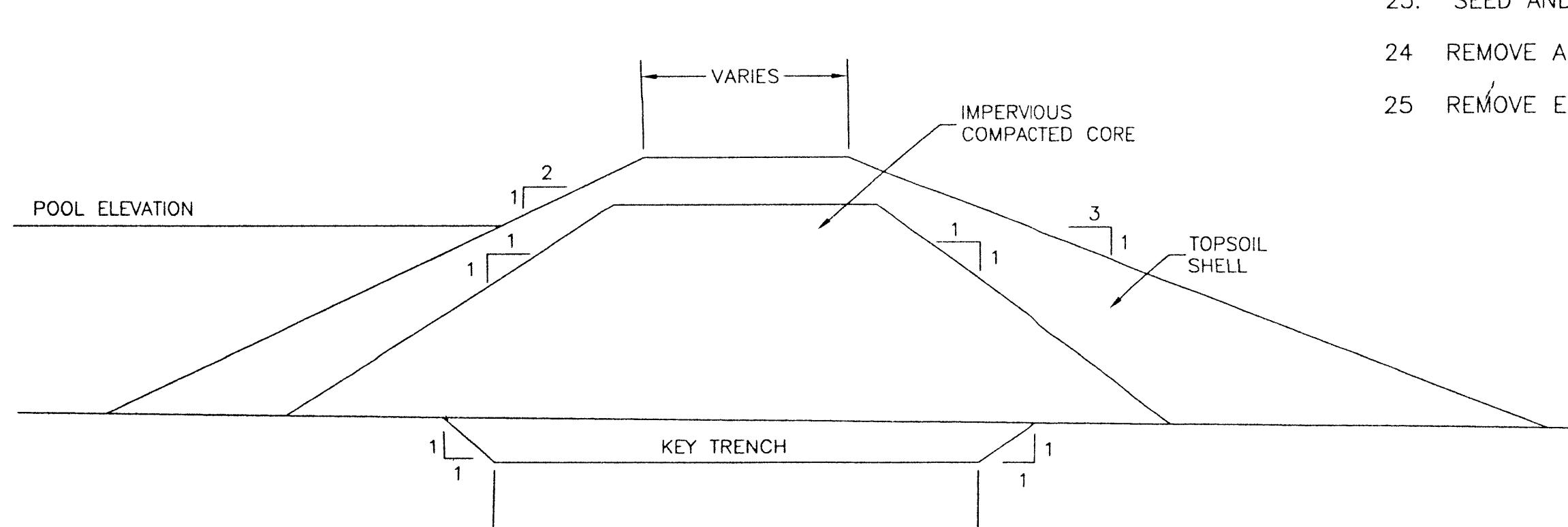
DESCRIPTION	REV

BASIN	TOP OF BERM ELEV.	SPILLWAY CREST ELEV.	FLOW BOTTOM WIDTH (FT)	TEMPORARY SPILLWAY LINING
LIMESTONE POND D2	102.0	100.5	6	JUTE MAT
SETTLING POND D2	96.0	94.5	6	JUTE MAT
LIMESTONE POND D3	61.0	59.5	6	JUTE MAT
SETTLING POND D3	56.0	54.5	6	JUTE MAT



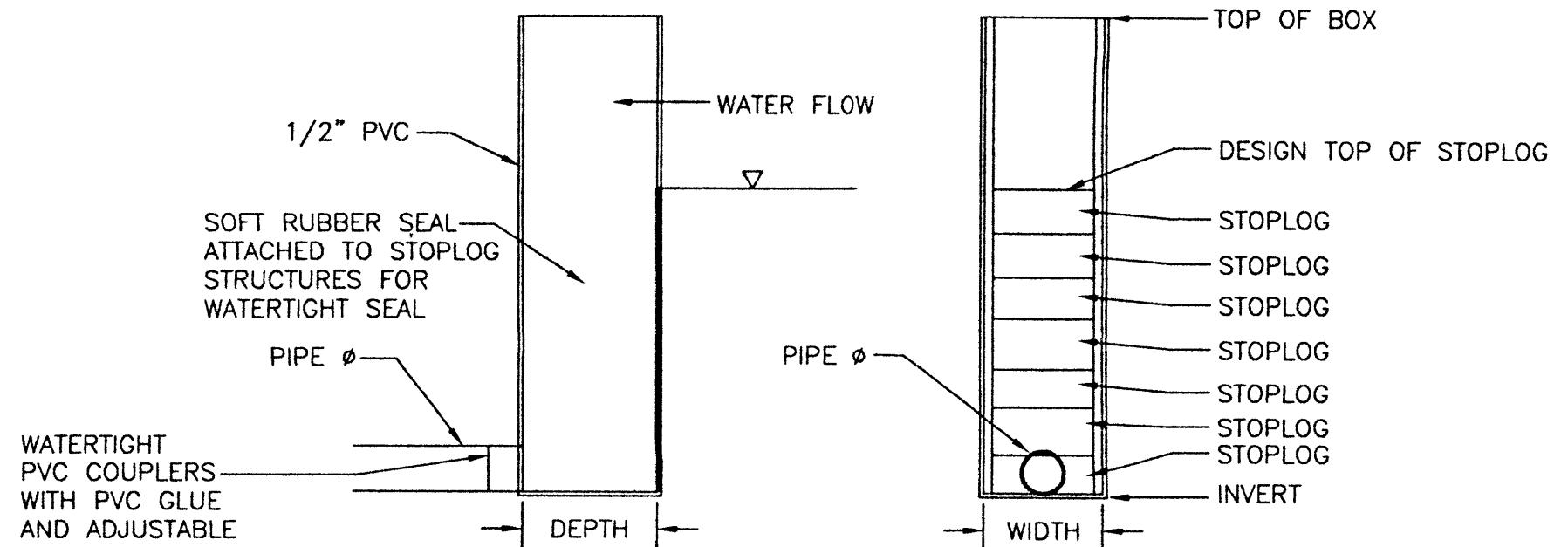
CONSTRUCTION SEQUENCE

- MOBILIZE EQUIPMENT AND PERSONNEL TO SITE.
- STAKE OUT LIMITS OF WORK.
- INSTALL ROCK FILTER, 18" AND 30" FILTER FABRIC FENCE AT LOCATIONS SHOWN.
- PERFORM CLEARING AND GRUBBING OPERATIONS OF WORK AREAS AS NECESSARY.
- GRADE AND CONSTRUCT LIMESTONE POND D3 AND SETTLING POND D3.
- GRADE AND CONSTRUCT PERMANENT DIVERSION CHANNEL TO CONVEY ROAD CULVERT OUTFALL ACROSS WORK SITE.
- EXCAVATE BURIED LIMESTONE POND. STOCKPILE MATERIAL IN DESIGNATED TEMPORARY MATERIAL STOCKPILE AREA.
- INSTALL MODEL 630 DOSING SIPHON, ASSOCIATED PIPING NETWORK, AND ROCK APRON IN LIMESTONE POND D3.
- INSTALL A PORTION OF 8"Ø SOLID SDR 35 PVC PIPE BETWEEN LIMESTONE POND D3 AND DISCHARGE D3 CAPTURE POINT (TO BE INSTALLED LATER). BACKFILL A PORTION OF THE PIPE TRENCH TO ALLOW PLACEMENT OF LIMESTONE IN LIMESTONE POND D3.
- INSTALL INLET STRUCTURE D3 AND ASSOCIATED OUTLET PIPE BETWEEN SETTLING POND D3 AND BURIED LIMESTONE POND. PERFORATE LAST 10 FEET OF PIPE AS SHOWN ON DRAWINGS.
- GRADE AND CONSTRUCT SETTLING POND D2.
- GRADE AND CONSTRUCT LIMESTONE POND D2.
- INSTALL MODEL 423 DOSING SIPHON, ASSOCIATED PIPING NETWORK, AND ROCK APRON IN LIMESTONE POND D3.
- INSTALL A PORTION OF 4"Ø SOLID SDR 35 PVC PIPE BETWEEN LIMESTONE POND D2 AND DISCHARGE 2 CAPTURE POINT (TO BE INSTALLED LATER). BACKFILL A PORTION OF THE PIPE TRENCH TO ALLOW PLACEMENT OF LIMESTONE IN LIMESTONE POND D2.
- PERFORM TRENCHING OPERATION TO RECEIVE 6"Ø N-12 PIPE BETWEEN SETTLING POND D2 AND BURIED LIMESTONE POND.
- INSTALL 6"Ø N-12 PIPE AND INLET STRUCTURE D2. HAND PERFORATE THE LAST 10 FEET OF THE N-12 PIPE AS SHOWN ON DRAWINGS. BACKFILL PIPING TRENCH.
- PLACE REQUIRED QUANTITIES OF R-3 LIMESTONE IN LIMESTONE PONDS D2, D3 AND BURIED LIMESTONE POND.
- PLACE REQUIRED QUANTITIES OF AASHTO #57 LIMESTONE IN LIMESTONE POND D2 AND D3.
- INSTALL 10"Ø SDR 35 PVC PRIMARY AND EMERGENCY OUTLET PIPES AND ROCK APRONS IN BURIED LIMESTONE POND
- PLACE CLASS 4 GEOTEXTILE AND SOIL CAP ON TOP OF LIMESTONE IN BURIED LIMESTONE POND.
- CONSTRUCT DISCHARGE D2 CAPTURE POINT AND CONNECT TO PIPING NETWORK IN LIMESTONE POND D2.
- CONSTRUCT DISCHARGE D3 CAPTURE POINT AND CONNECT TO PIPING NETWORK IN LIMESTONE POND D3.
- SEED AND MULCH SITE.
- REMOVE ALL CONSTRUCTION WASTE FROM SITE.
- REMOVE EROSION AND SEDIMENT CONTROLS ONCE 70% VEGETATIVE COVER HAS BEEN ACHIEVED.



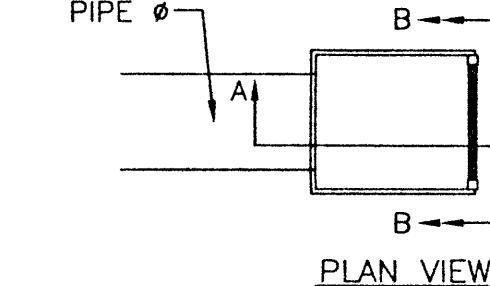
TYPICAL BERM SECTION

NO SCALE



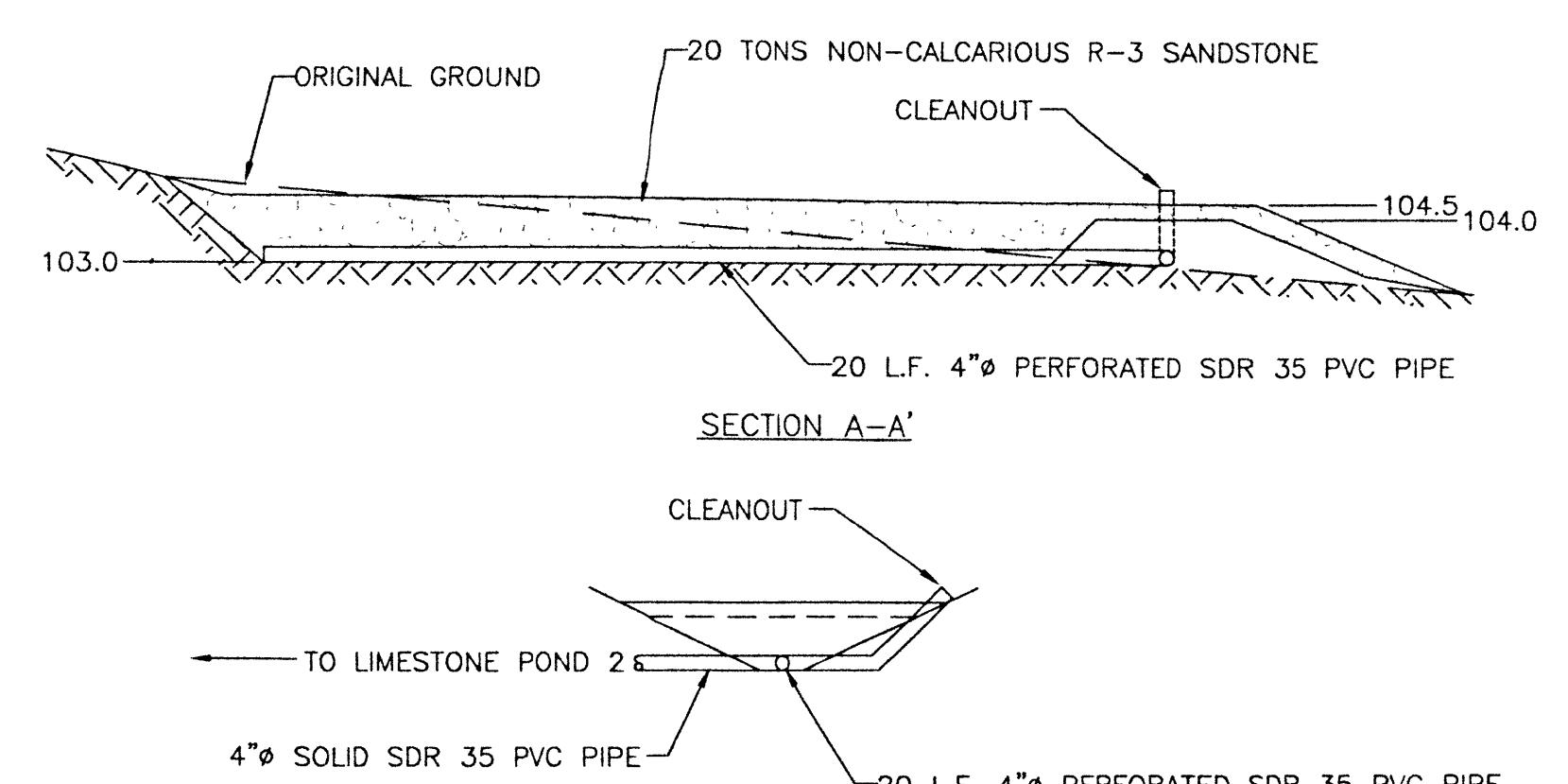
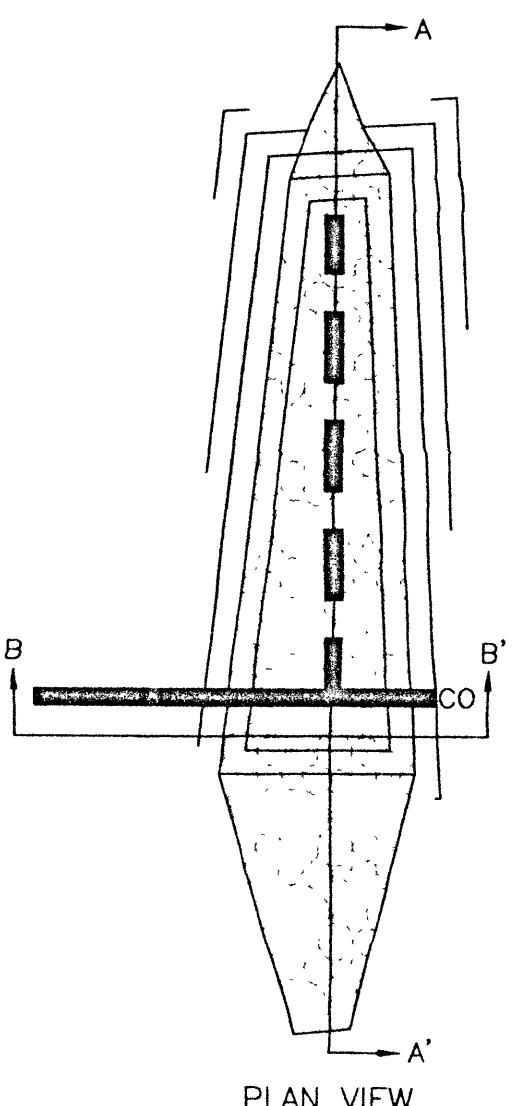
SECTION A-A

SECTION B-B



PVC INLET WATER LEVEL CONTROL STRUCTURE

NO SCALE

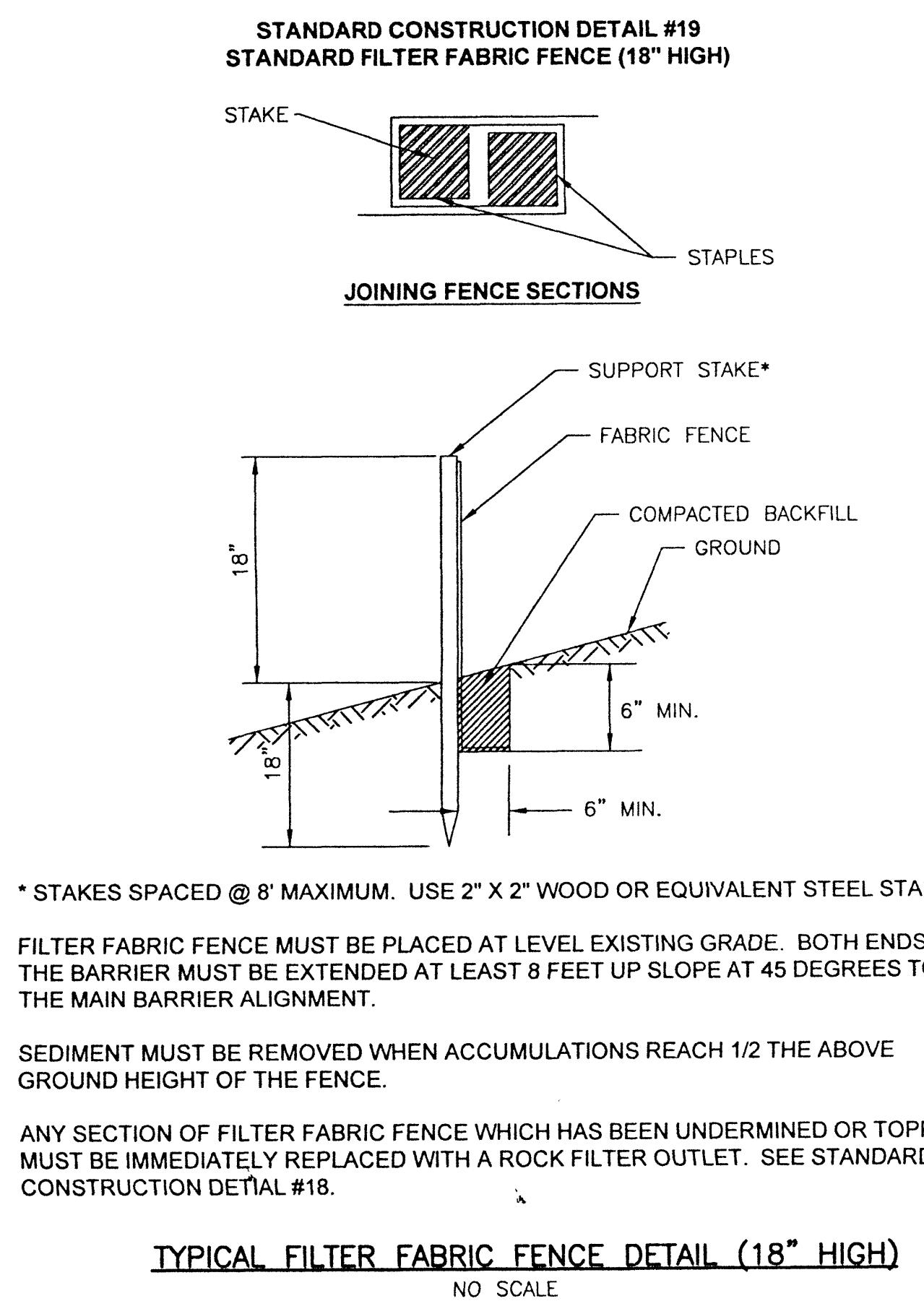


DISCHARGE 2 CAPTURE POINT DETAIL

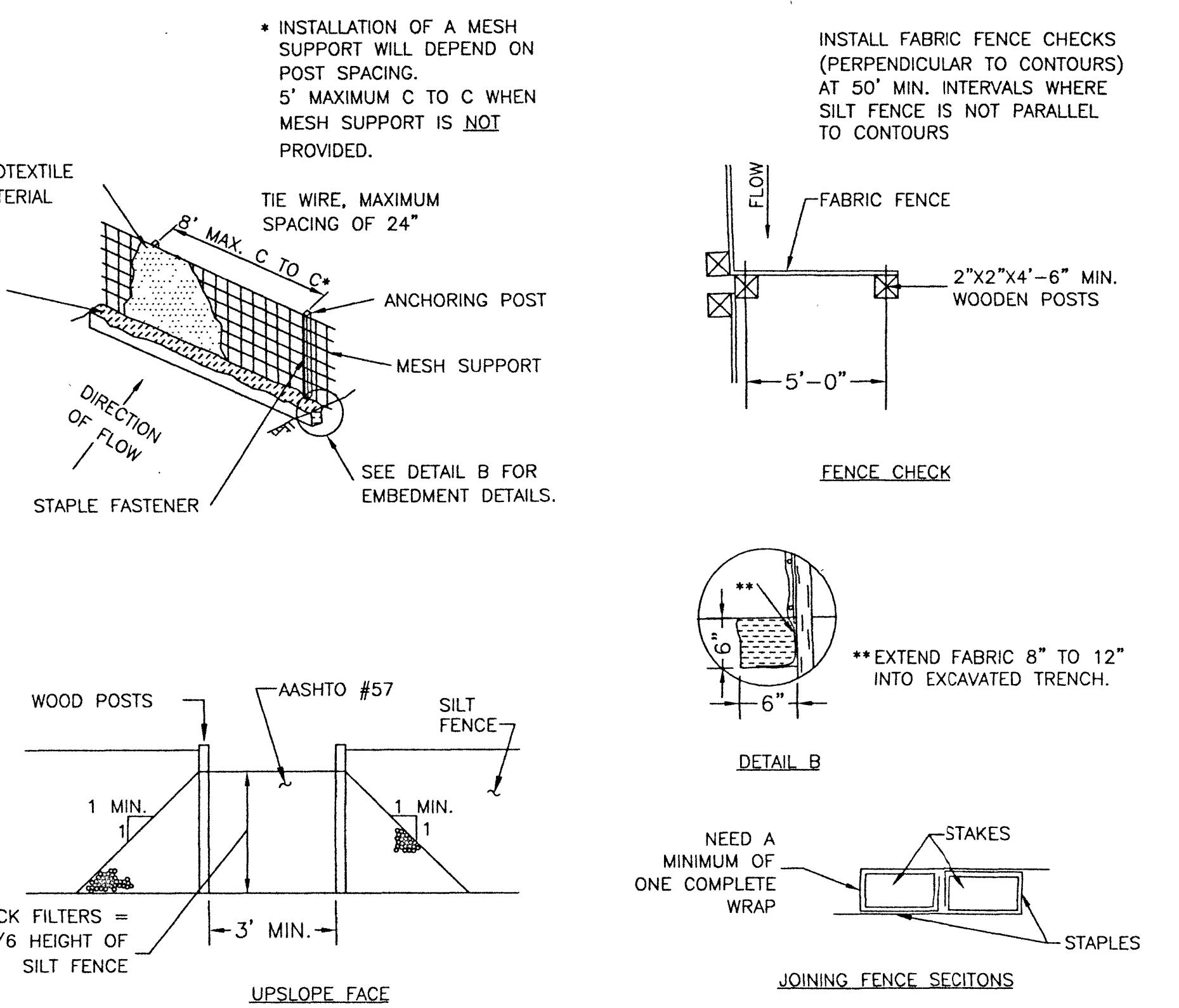
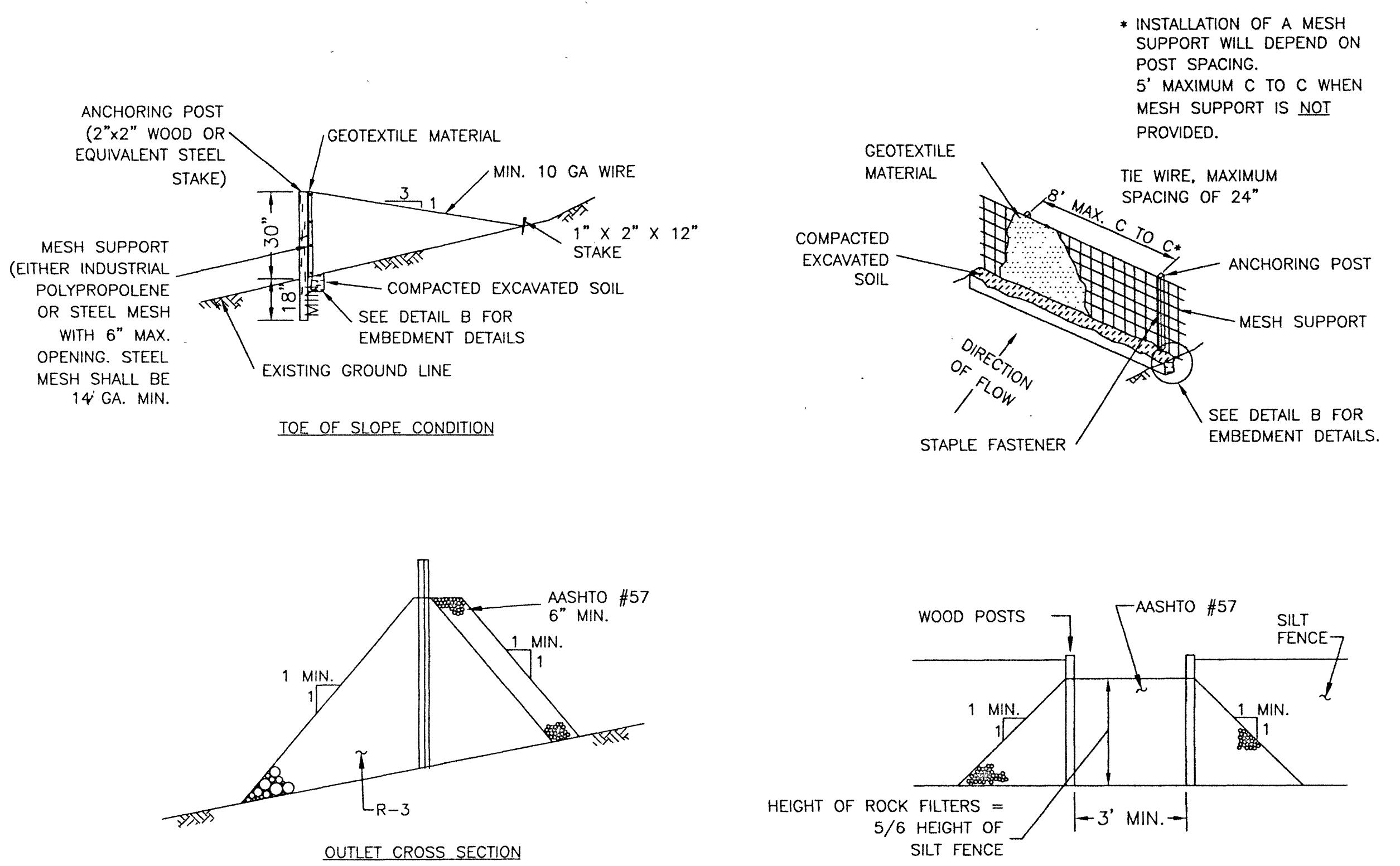
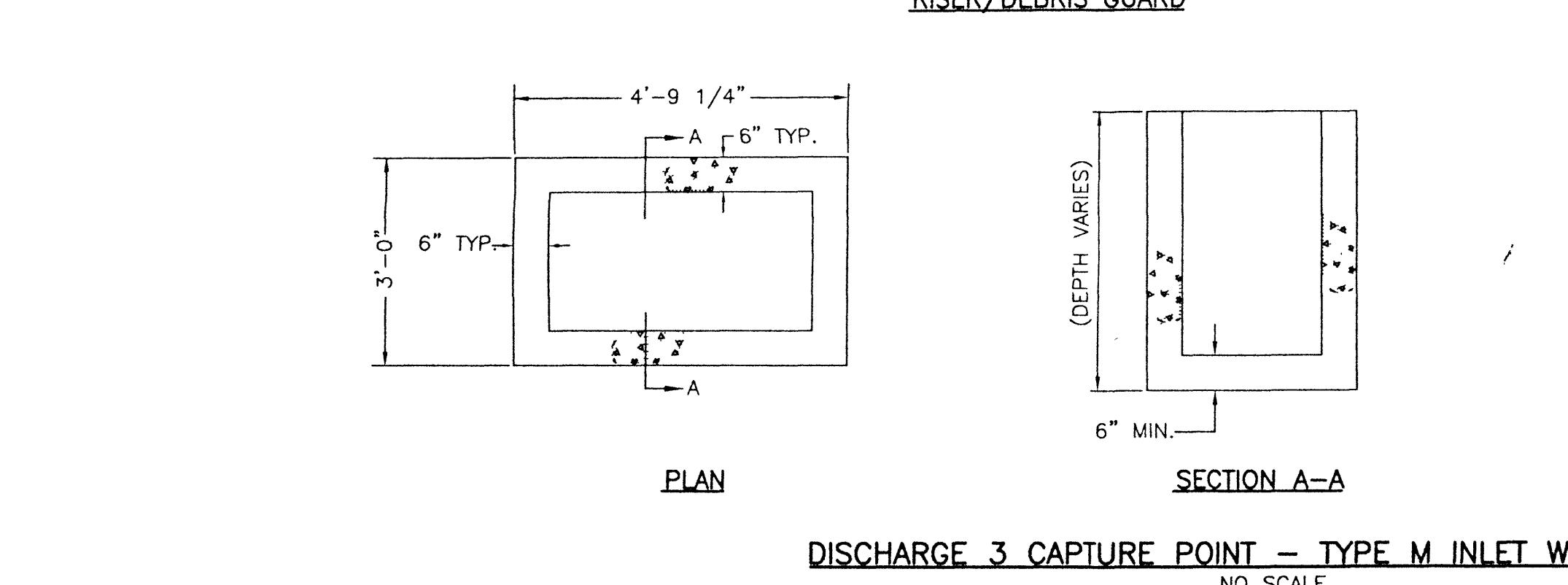
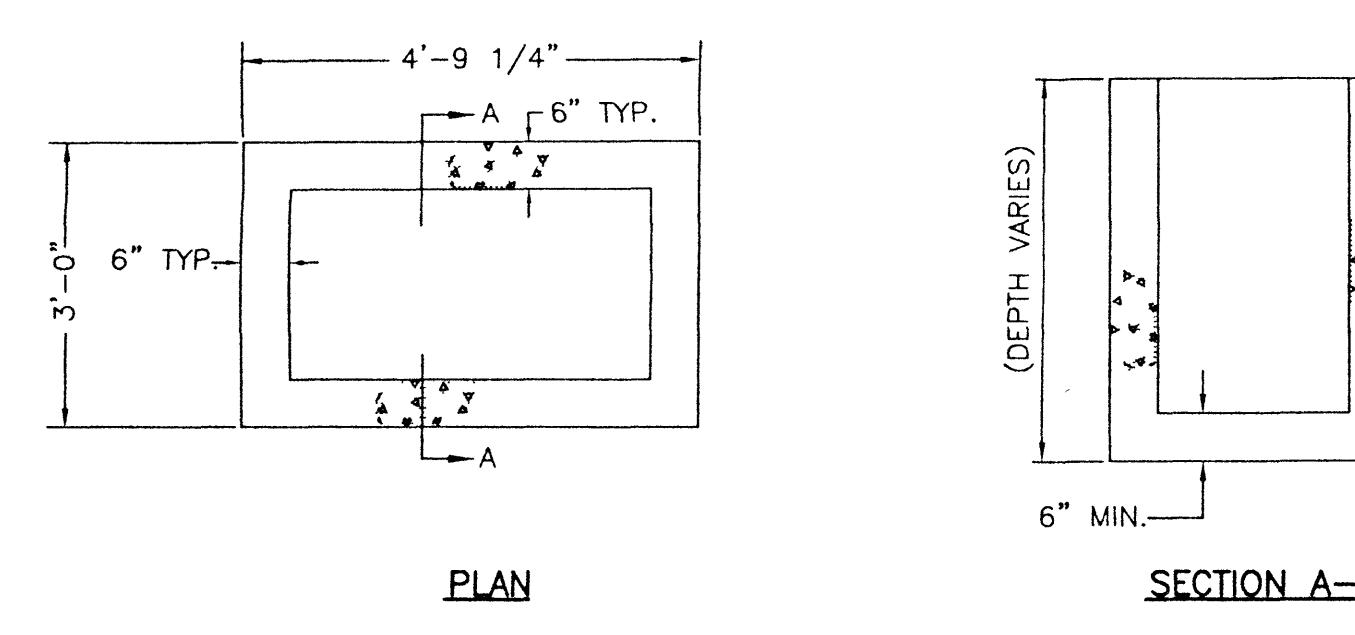
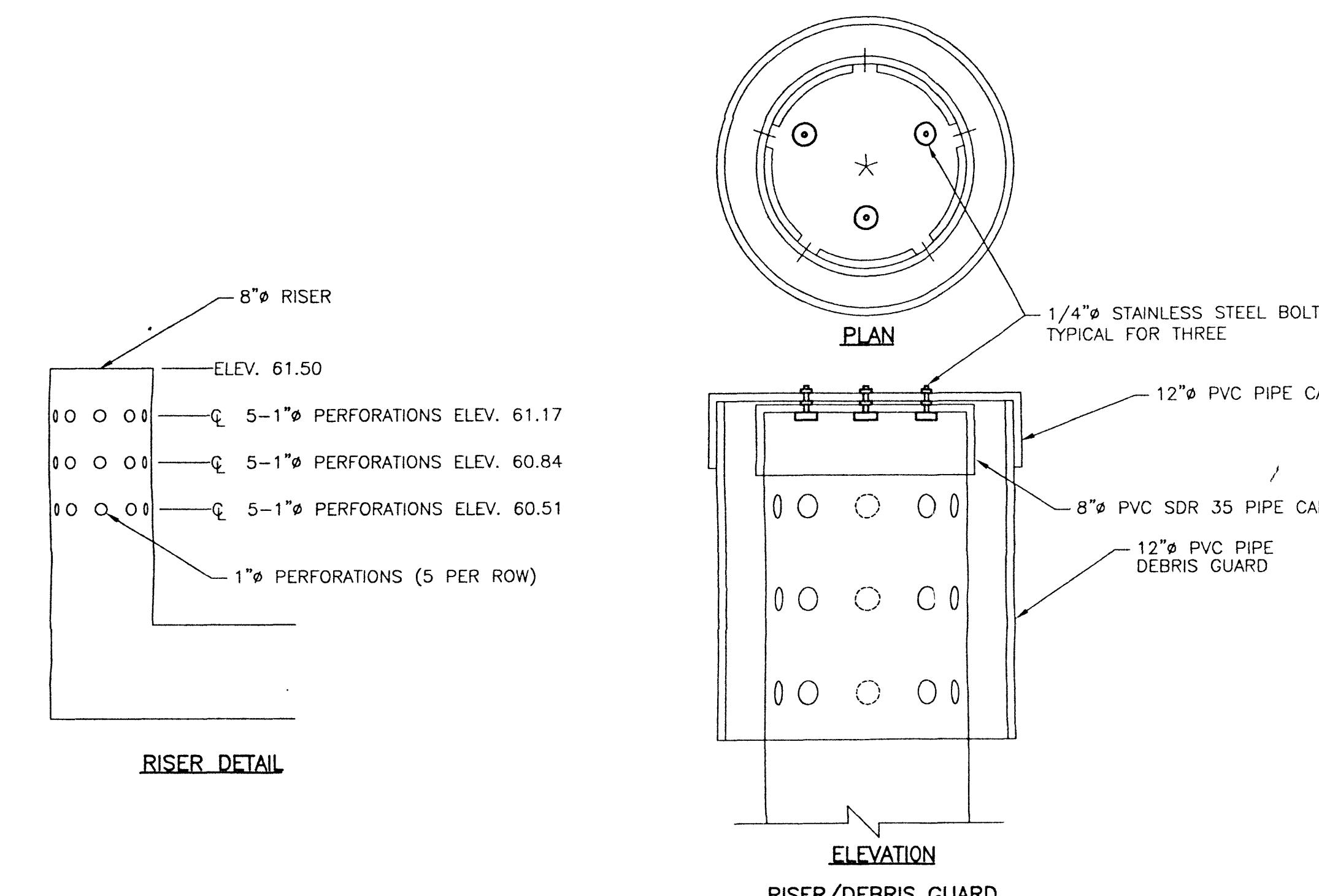
NO SCALE

DATE
DSN: N.A.W. 2/25/05
DFTSN: N.A.W. 2/25/05
KRR: T.W.S. 2/25/05
APV: APV
SCALE AS SHOWN

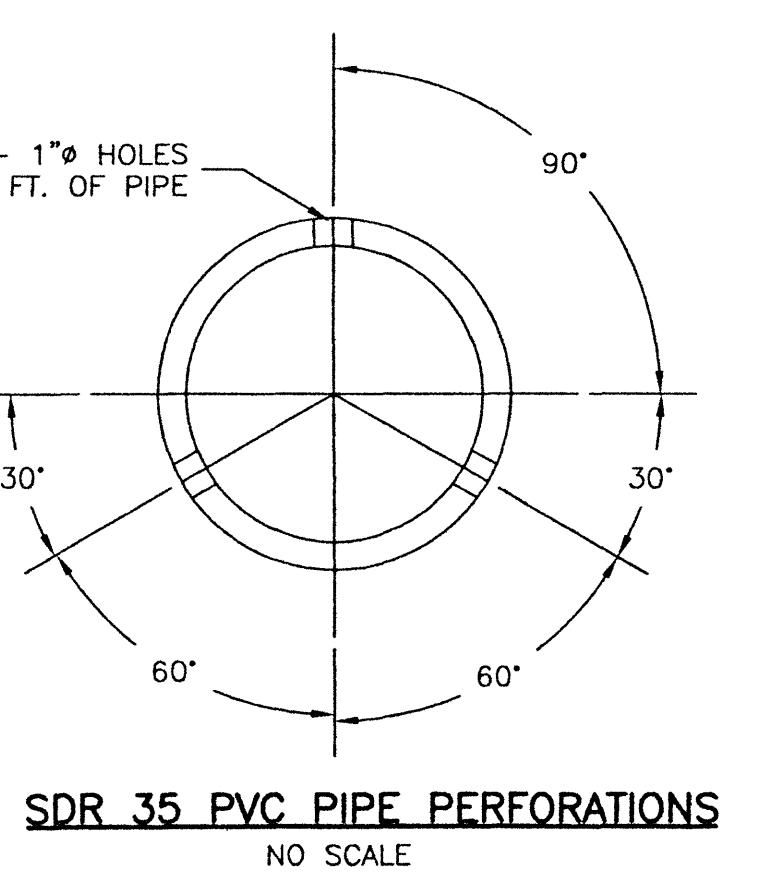
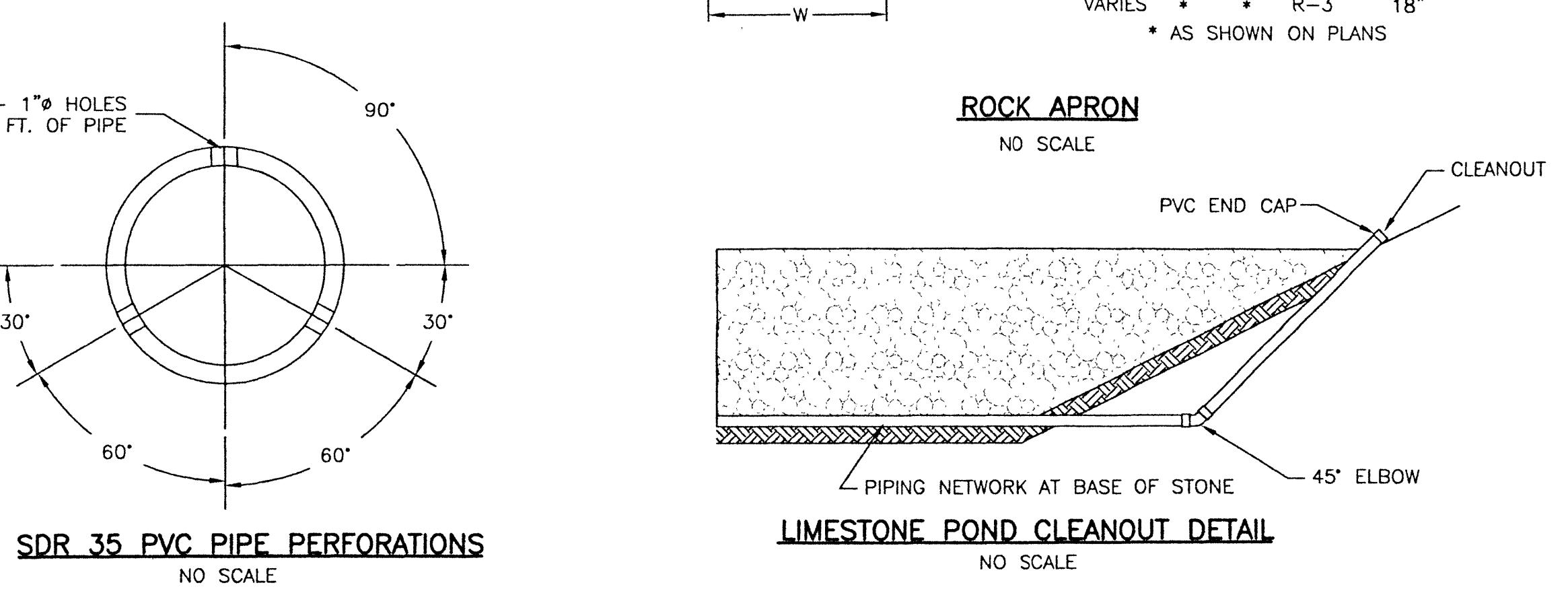
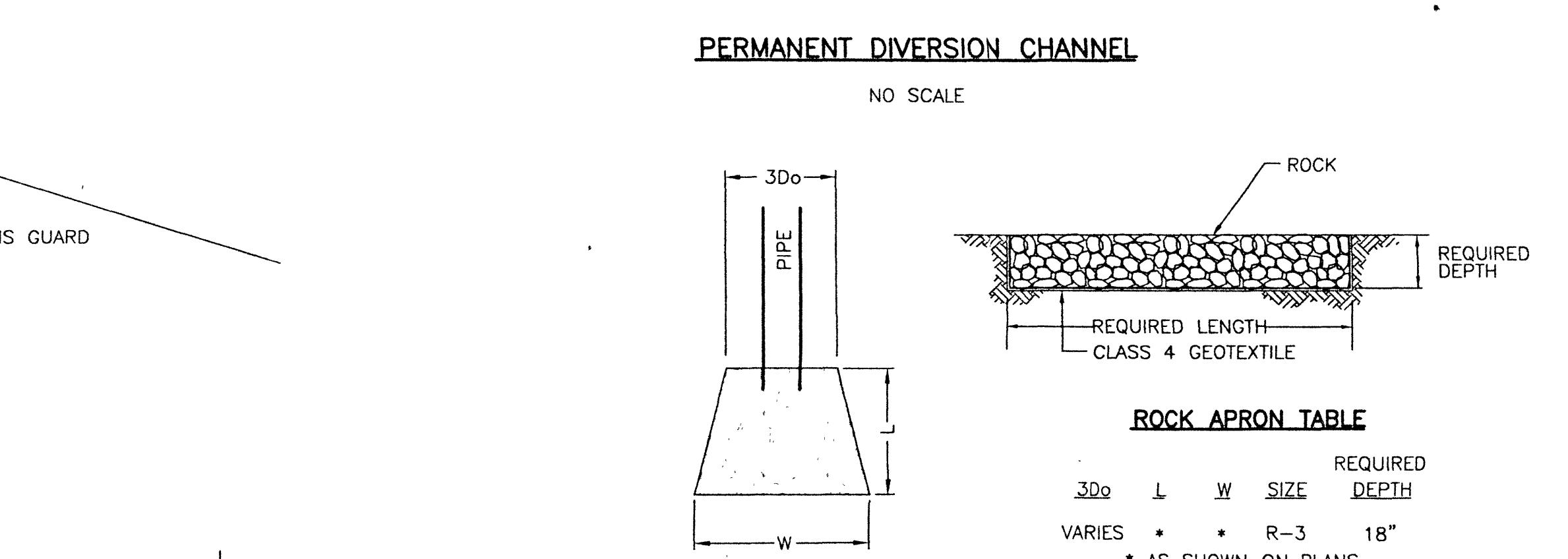
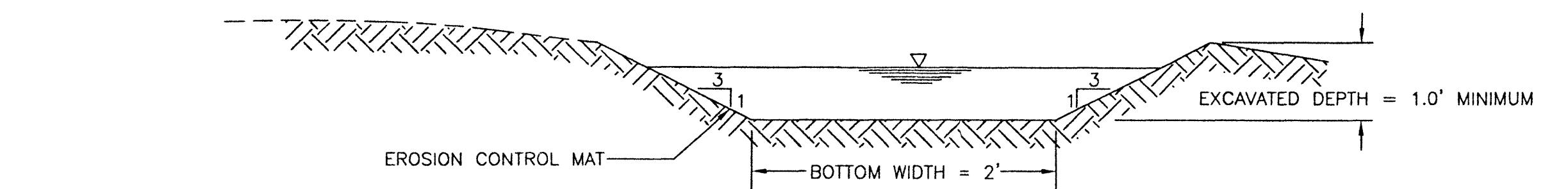
DESCRIPTION	REVISION



TYPICAL FILTER FABRIC FENCE DETAIL (18" HIGH)
NO SCALE



TYPICAL FILTER FABRIC FENCE DETAIL (30" HIGH)
NO SCALE



DRAWING NO. C-7
SHEET 7 OF 7
"PLAN" FOR INDIANA COUNTY CONSERVATION DISTRICT
CESSNA RUN AND REMEDIATION PROJECT
CANCE TOWNSHIP, INDIANA COUNTY, PA

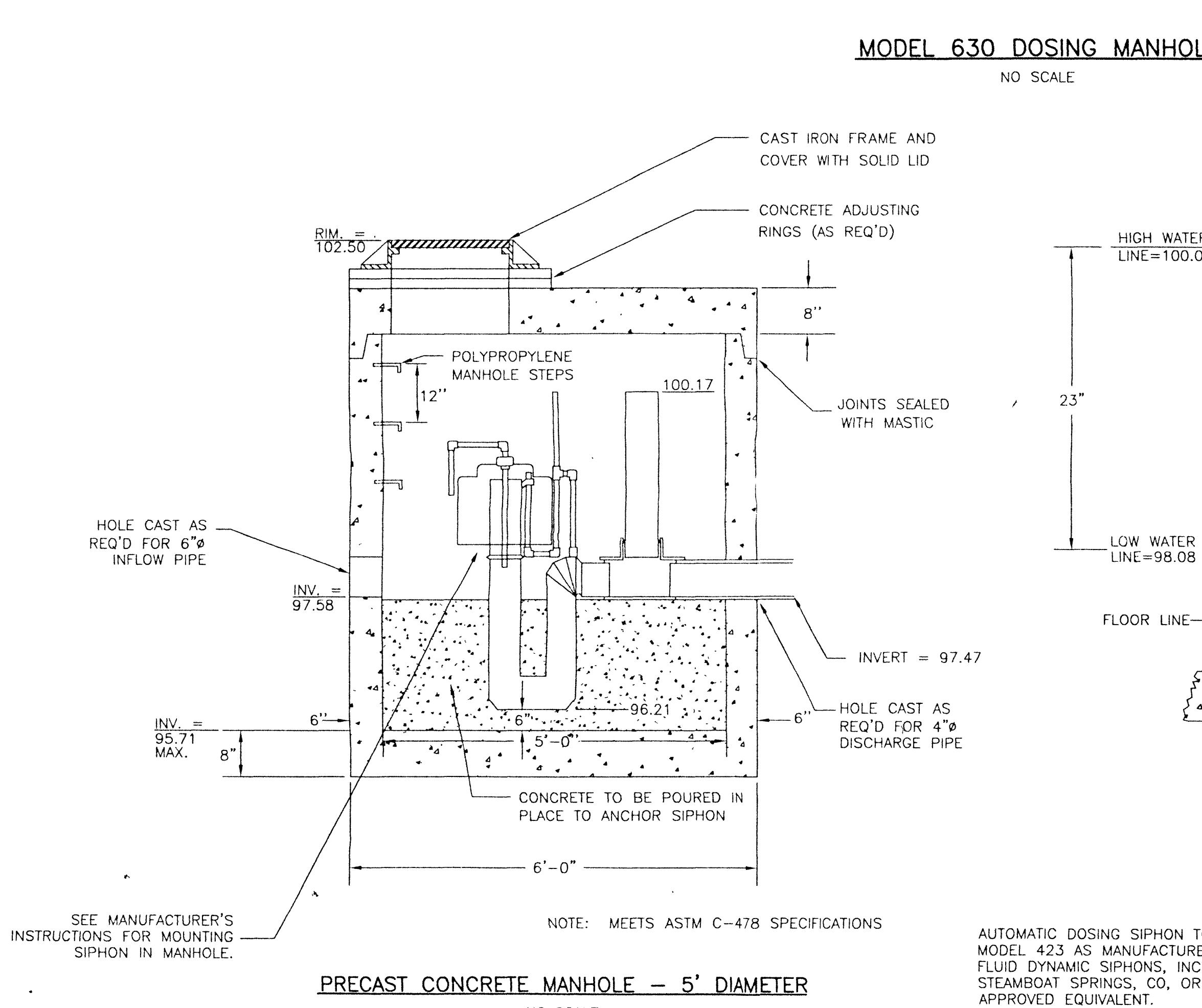
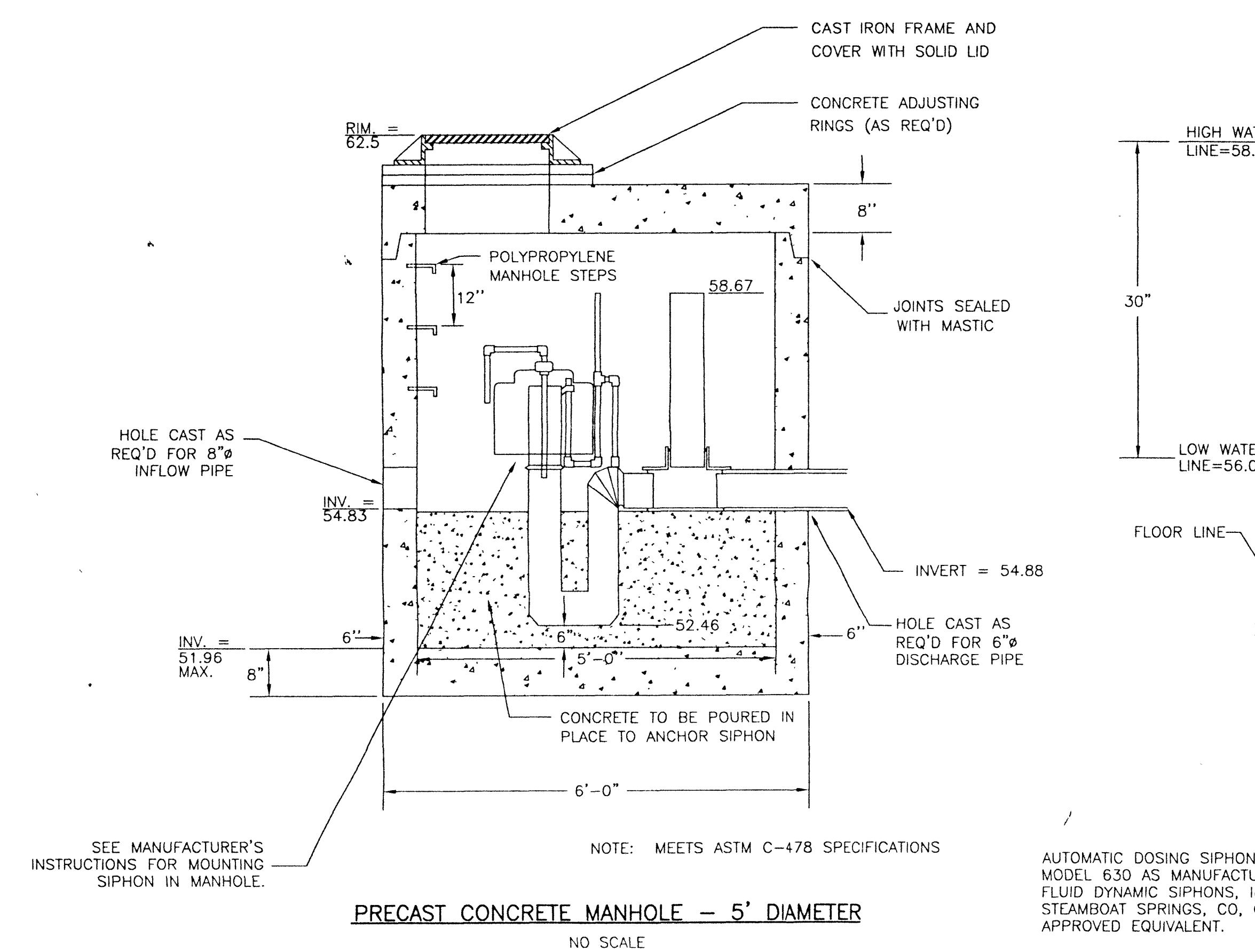
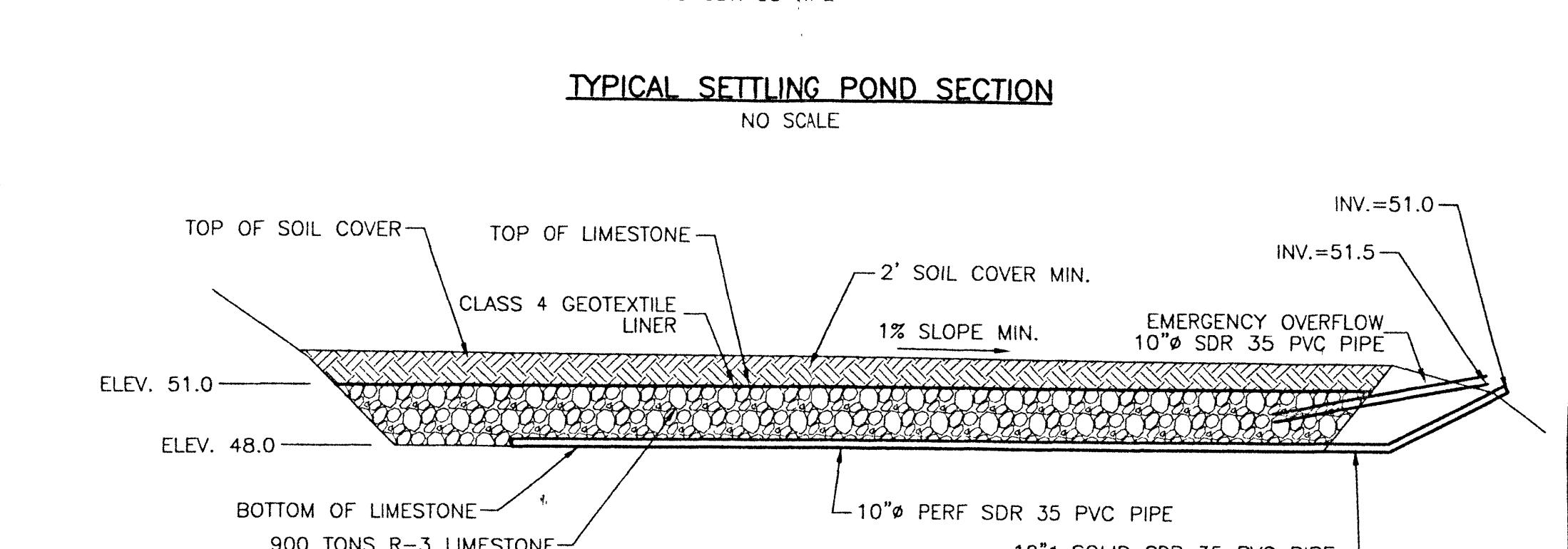
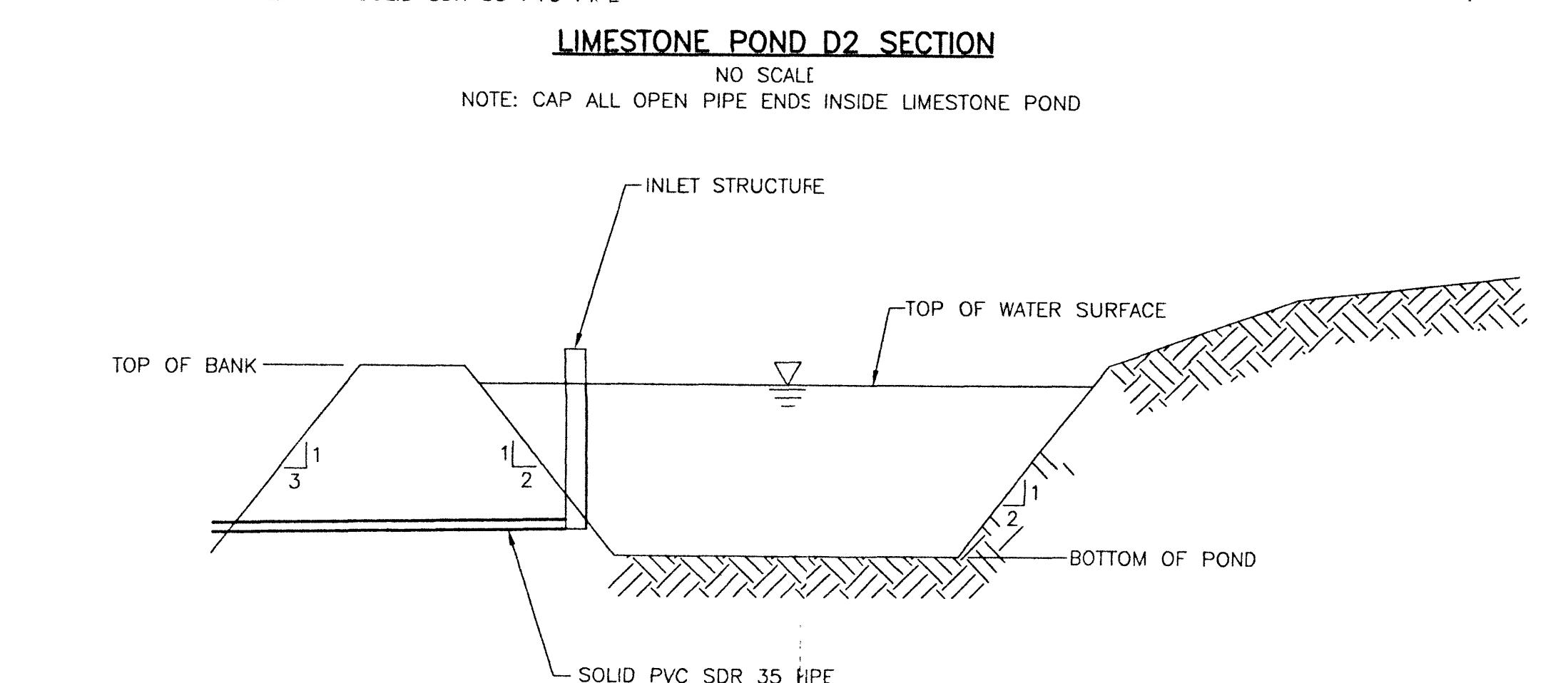
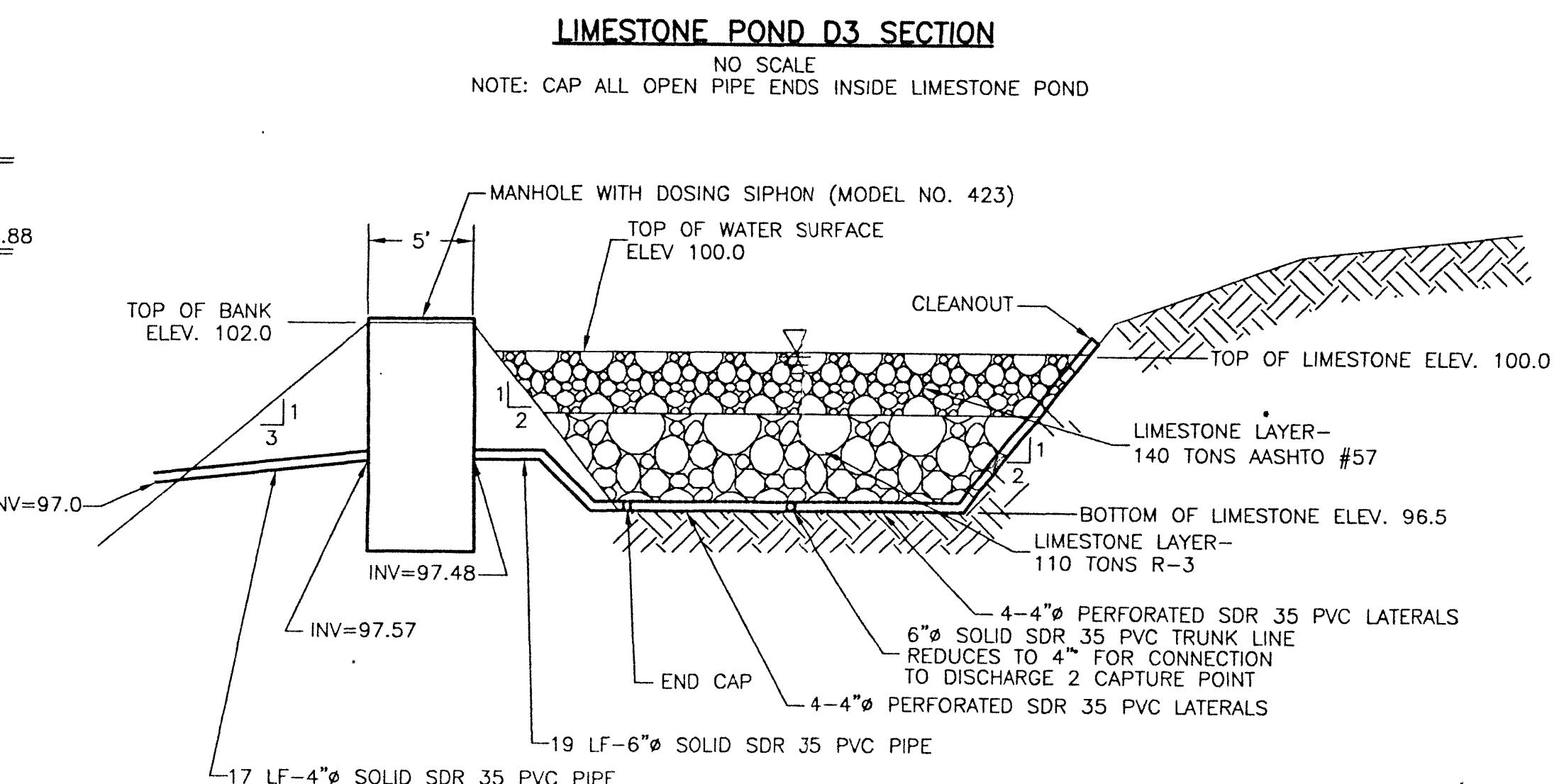
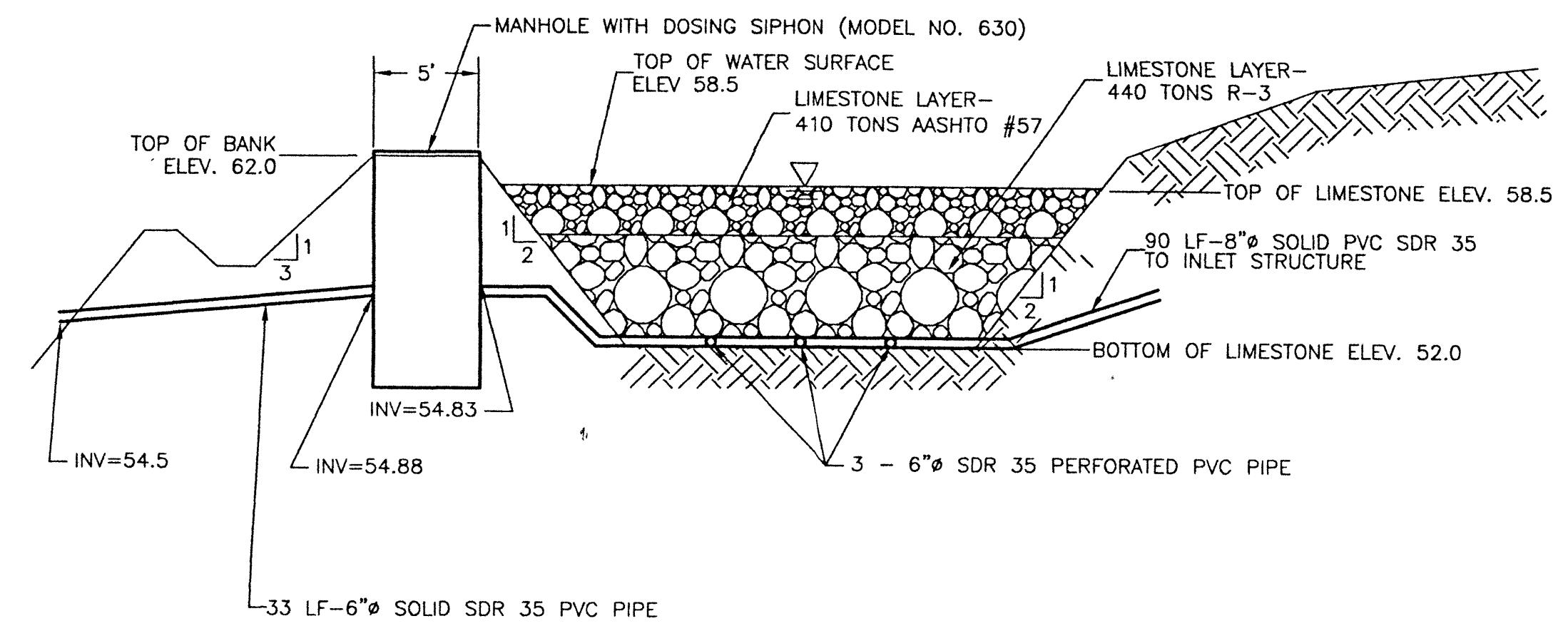
DATE 2/25/05
DESIGN N.A.W.
DRAWN N.A.W.
CHKR T.W.S.
APRV A.P.V.

SCALE AS SHOWN
DATE

REV. DATE
DESCRIPTION

SKELLY AND LOY, INC.
ENGINEERS-CONSULTANTS
2001 NORTH FRONT STREET
HARRISBURG, PENNSYLVANIA
(717) 232-4700 FAX (717) 232-1772
e-mail: skelloy@juno.com

CB NUMBER: 1503298
DATE: FEBRUARY 25 2005



MODEL 630 DOSING MANHOLE
NO SCALE

AUTOMATIC DOSING SIPHON
NO SCALE

MODEL 423 DOSING MANHOLE
NO SCALE