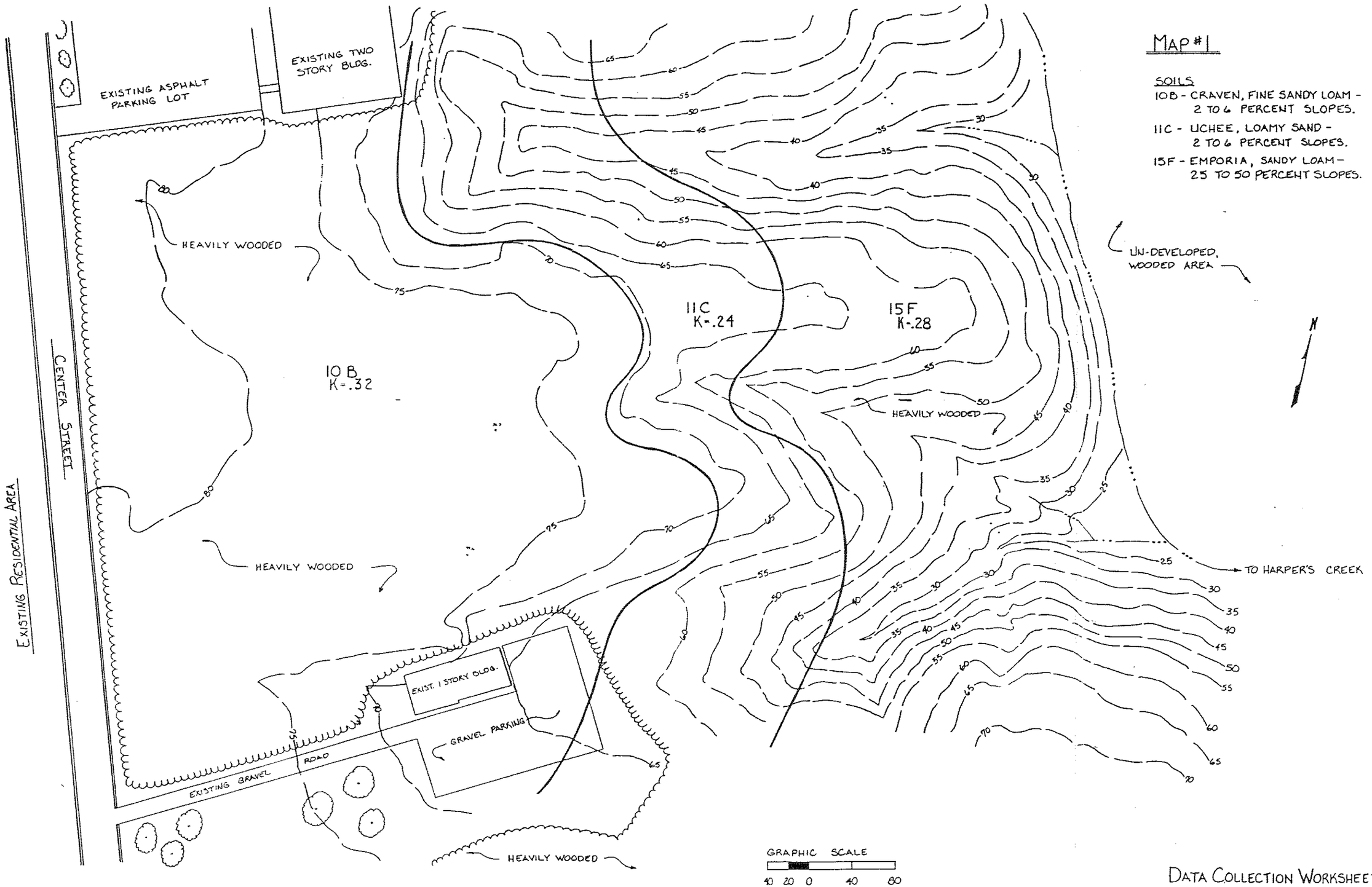
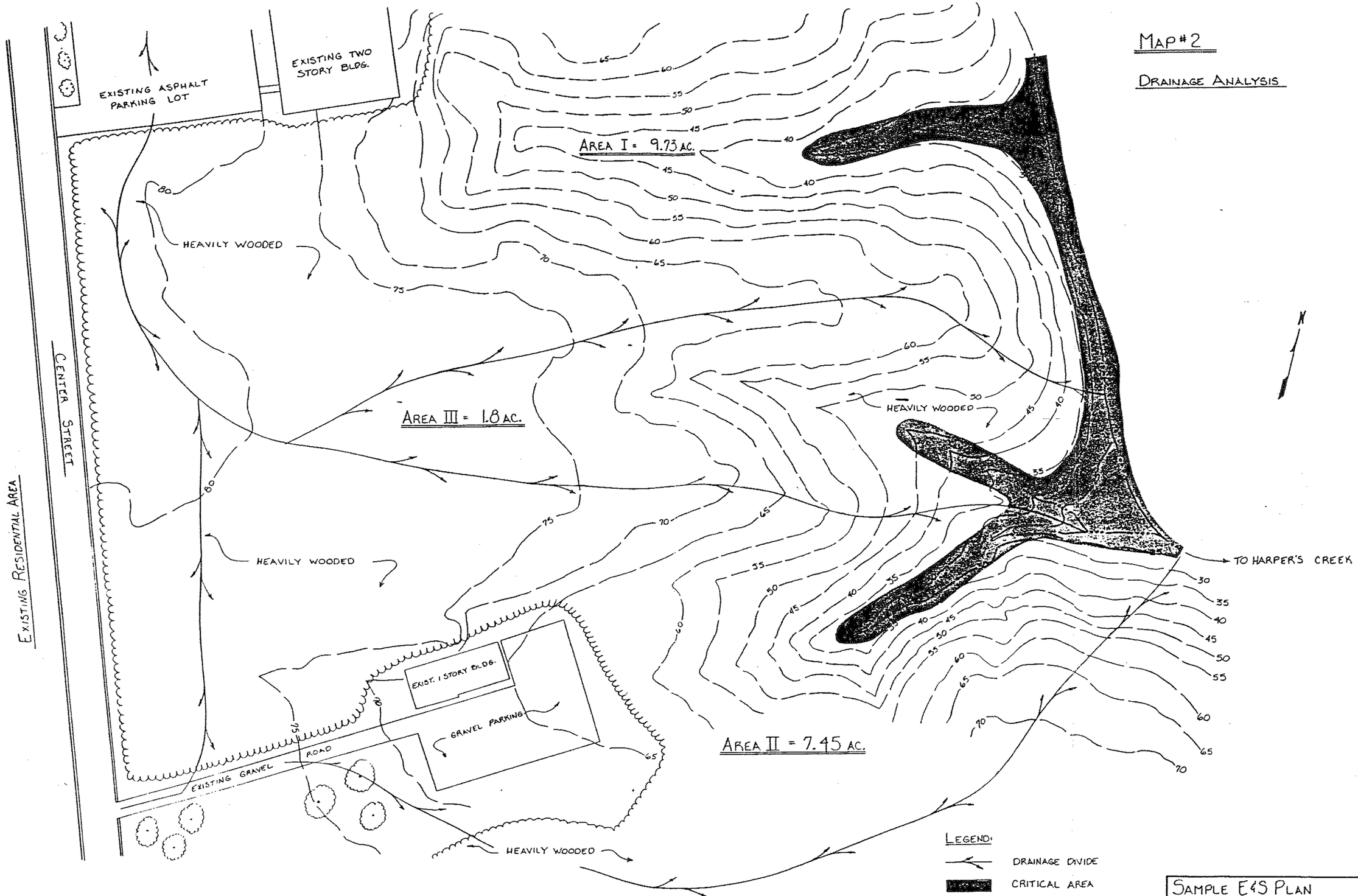


DATA COLLECTION WORKSHEET

SAMPLE E&S PLAN

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER:



SAMPLE E&S PLAN

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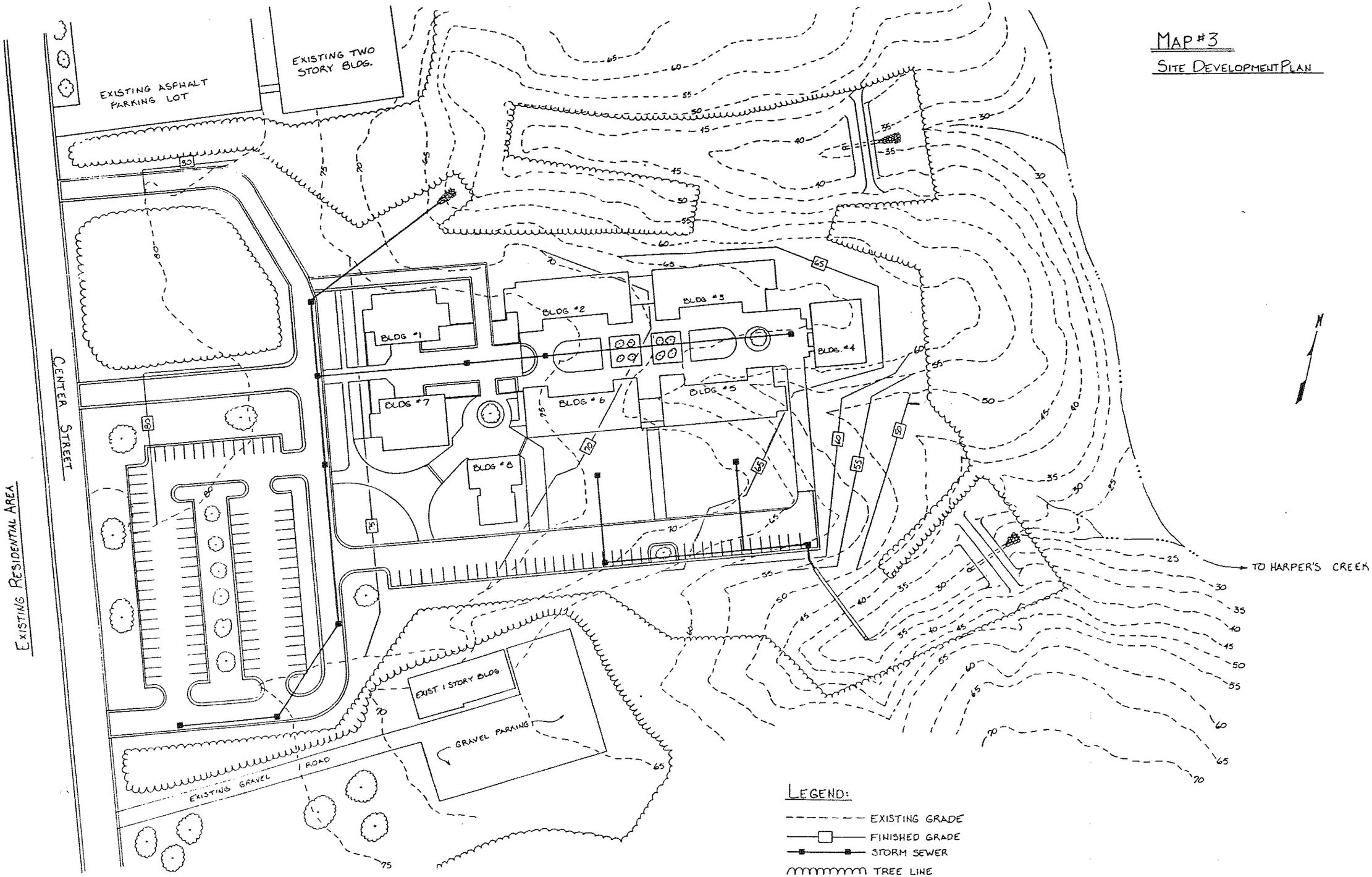
		DRAWING NUMBER

MAP #3

SITE DEVELOPMENT PLAN



SAMPLE E&S PLAN

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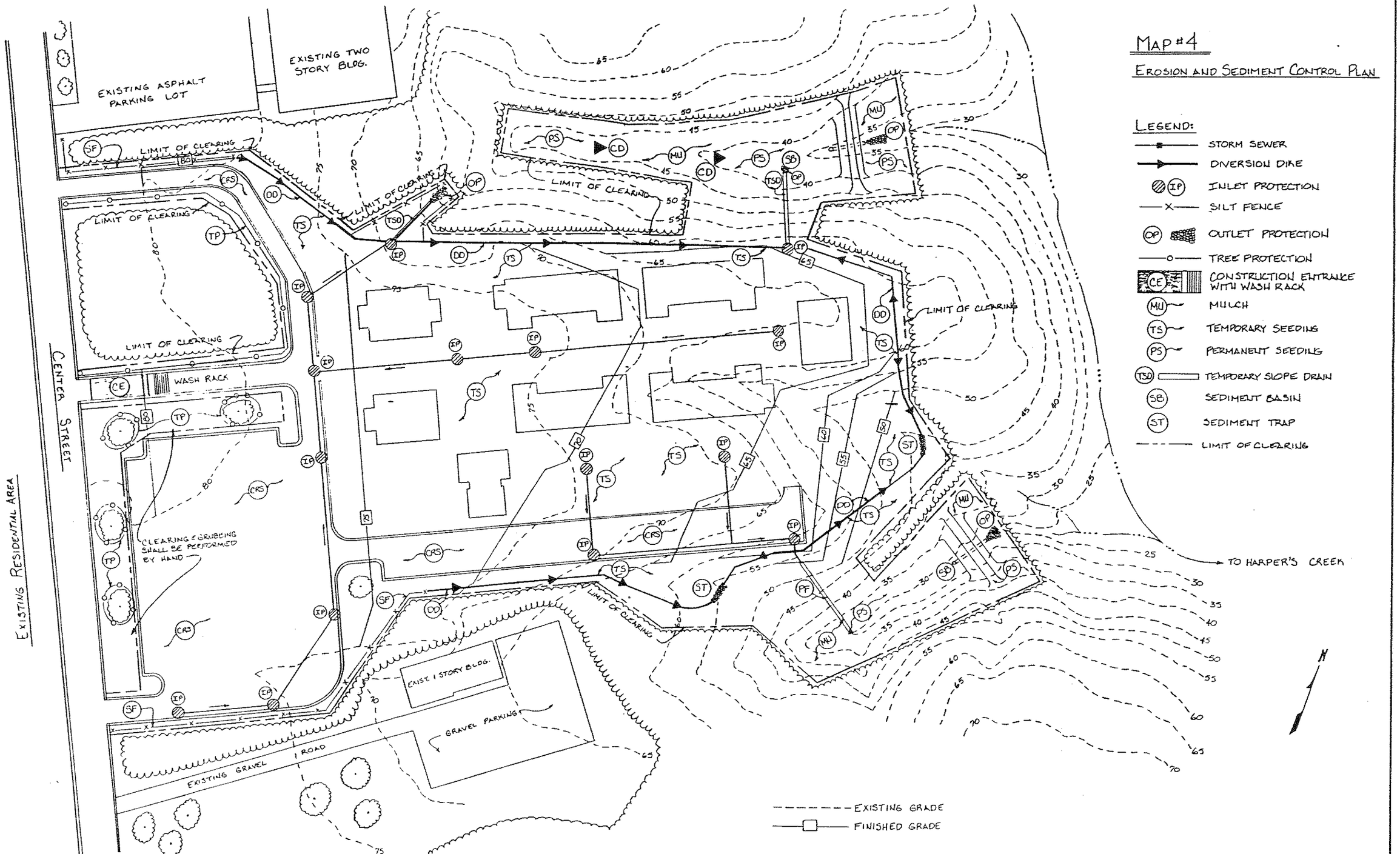
		DRAWING NUMBER

MAP #4

EROSION AND SEDIMENT CONTROL PLAN



LEGEND:

- STORM SEWER
- DIVERSION DIKE
- (IP) INLET PROTECTION
- —X— SILT FENCE
- (OP) OUTLET PROTECTION
- —o— TREE PROTECTION
- (CE) CONSTRUCTION ENTRANCE WITH WASH RACK
- (MU) MULCH
- (TS) TEMPORARY SEEDING
- (PS) PERMANENT SEEDING
- (TSD) TEMPORARY SLOPE DRAIN
- (SB) SEDIMENT BASIN
- (ST) SEDIMENT TRAP
- LIMIT OF CLEARING

SAMPLE E&S PLAN

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED
		DRAWING NUMBER

GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-1: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations VR 625-02-00 Erosion and Sediment Control Regulations.

ES-2: The plan approving authority must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activity, and one week prior to the final inspection.

ES-3: All erosion and sediment control measures are to be placed prior to or as the first step in clearing.

ES-4: A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.

ES-5: Prior to commencing land disturbing activities in areas other than indicated on these plans (including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan approving authority.

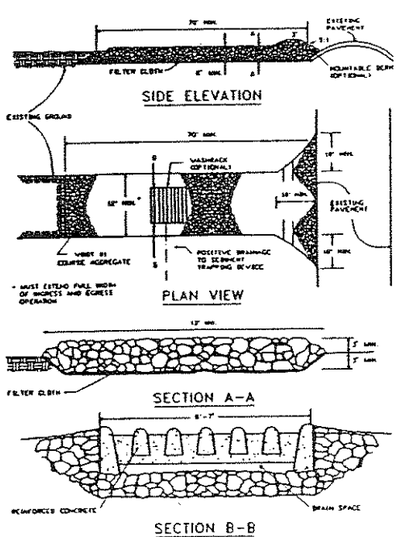
ES-6: The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion sedimentation as determined by the plan approving authority.

ES-7: Site grading is to drain to the sediment basins at all times during land disturbing activities and during site development until final stabilization is achieved.

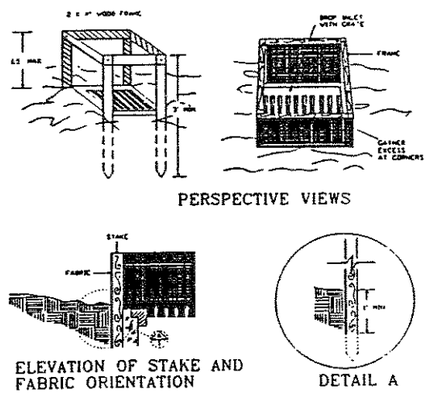
ES-8: During dewatering operations, water will be pumped into sediment basins or silt traps.

ES-9: The contractor shall inspect all erosion control measures periodically and after each runoff-producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.

STONE CONSTRUCTION ENTRANCE



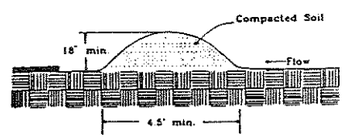
SILT FENCE DROP INLET PROTECTION



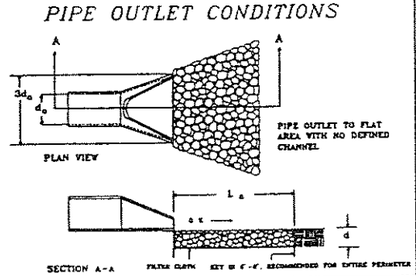
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS

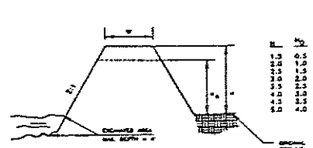
TEMPORARY DIVERSION DIKE



PIPE OUTLET CONDITIONS

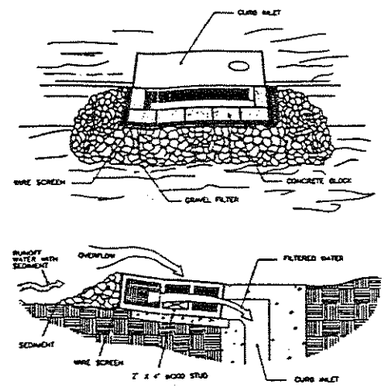


MINIMUM TOP WIDTH (W) REQUIRED FOR SEDIMENT TRAP EMBANKMENTS ACCORDING TO HEIGHT OF EMBANKMENT (FEET)



H	H_D	W
1.0	0.5	2.0
2.0	1.0	2.0
3.0	1.5	2.5
3.0	2.0	2.5
3.5	2.5	3.0
4.0	3.0	3.5
4.5	3.5	4.0
5.0	4.0	4.5

BLOCK & GRAVEL CURB INLET SEDIMENT FILTER

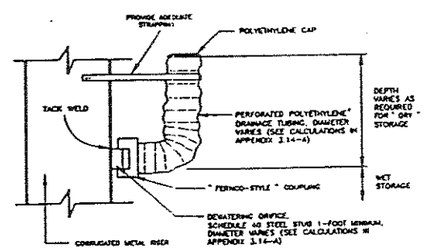


SPECIAL APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE

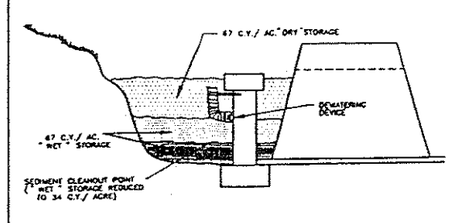
RECOMMENDED DEWATERING SYSTEM FOR SEDIMENT BASIN



NOTE: WITH CONCRETE RISER, USE PVC SCHEDULE 40 STUB FOR DEWATERING ORIFICE

*DRAINAGE TUBING SHALL COMPLY WITH ASTM F667 AND AASHTO M294

MINIMUM STORAGE VOLUME AND SEDIMENT STORAGE

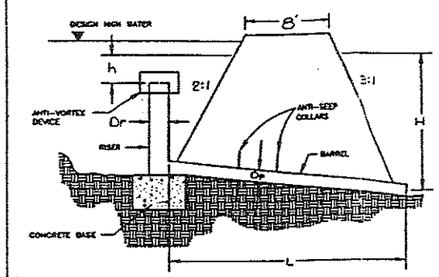


MAP #5

EROSION AND SEDIMENT CONTROL PLAN

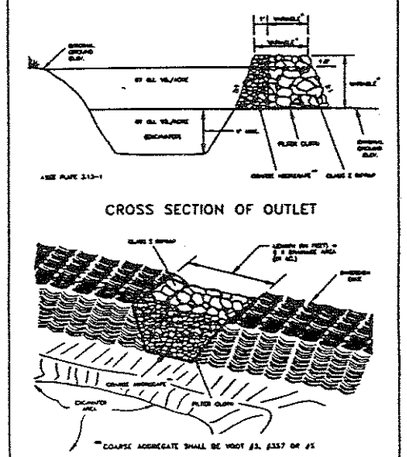
DETAILS & NOTES

PRINCIPAL SPILLWAY DESIGN

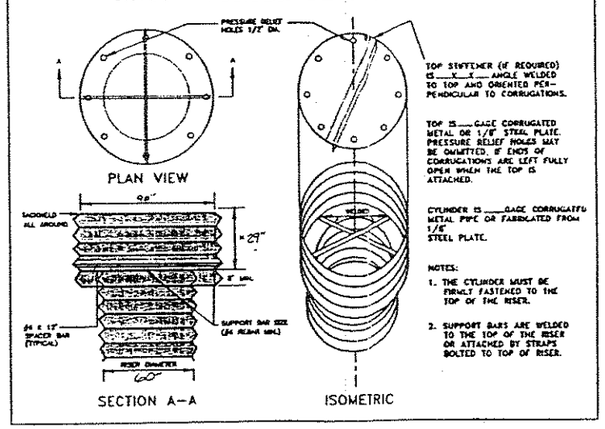


H = HEAD ON PIPE THROUGH EMBANKMENT = 9'
h = HEAD OVER RISER CREST = 1'
L = LENGTH OF PIPE THROUGH EMBANKMENT = 50'
D_b = DIAMETER OF PIPE THROUGH EMBANKMENT = 30"
D_r = DIAMETER OF RISER = 60"

TEMPORARY SEDIMENT TRAP



ANTI- VORTEX DEVICE DESIGN



TOP STIFFENER (IF REQUIRED) IS ___X___X___ ANGLE WELDED TO TOP AND ORIENTED PERPENDICULAR TO CORRUGATIONS.

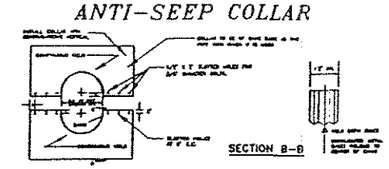
TOP IS ___GAGE CORRUGATED METAL OR 1/8" STEEL PLATE. PRESSURE RELIEF HOLES MAY BE OMMITTED, IF ENDS OF CORRUGATIONS ARE LEFT FULLY OPEN WHEN THE TOP IS ATTACHED.

CYLINDER IS ___GAGE CORRUGATED METAL PIPE OR FABRICATED FROM 1/8" STEEL PLATE.

NOTES:

1. THE CYLINDER MUST BE FIRMLY FASTENED TO THE TOP OF THE RISER.
2. SUPPORT BARS ARE WELDED TO THE TOP OF THE RISER OR ATTACHED BY STRAPS BOLTED TO TOP OF RISER.

DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR



ELEVATION OF UNASSEMBLED COLLAR

NOTES FOR COLLARS:

1. ALL MATERIALS TO BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIAL SPECIFICATIONS.
2. WHEN SPECIFIED ON THE PLANS, COATING OF COLLARS SHALL BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIAL SPECIFICATIONS.
3. UNASSEMBLED COLLARS SHALL BE MARKED BY PAINTING OR TAGGING TO IDENTIFY MATCHING PARTS.
4. THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALT MASTIC AT TIME OF INSTALLATION.
5. EACH COLLAR SHALL BE FURNISHED WITH TWO 1/2" DIAMETER BOLTS WITH STANDARD TANG LUGS FOR CONNECTING COLLARS TO PIPE.

SAMPLE E&S PLAN

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

DETAILS & NOTES

DRAWING NUMBER