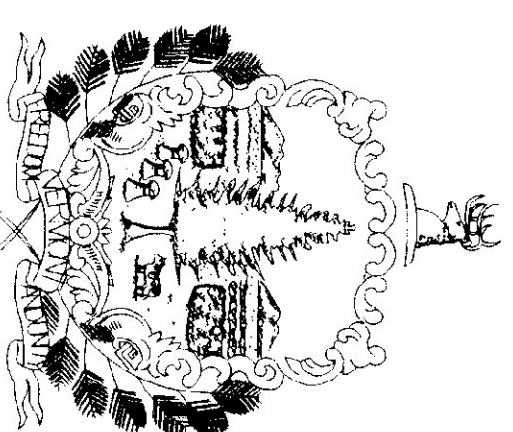


State of Vermont
Agency of Transportation
LYNDON MAINTENANCE FACILITY
PROPOSED SALT/SAND SHEDS
Lyndon, Vermont

AGENCY OF ADMINISTRATION
DEPT. OF BUILDINGS & GENERAL SERVICES
2 GOVERNOR AIKEN AVENUE
MONTPELIER, VERMONT 05633-5801
THOMAS W. TORTI, COMMISSIONER



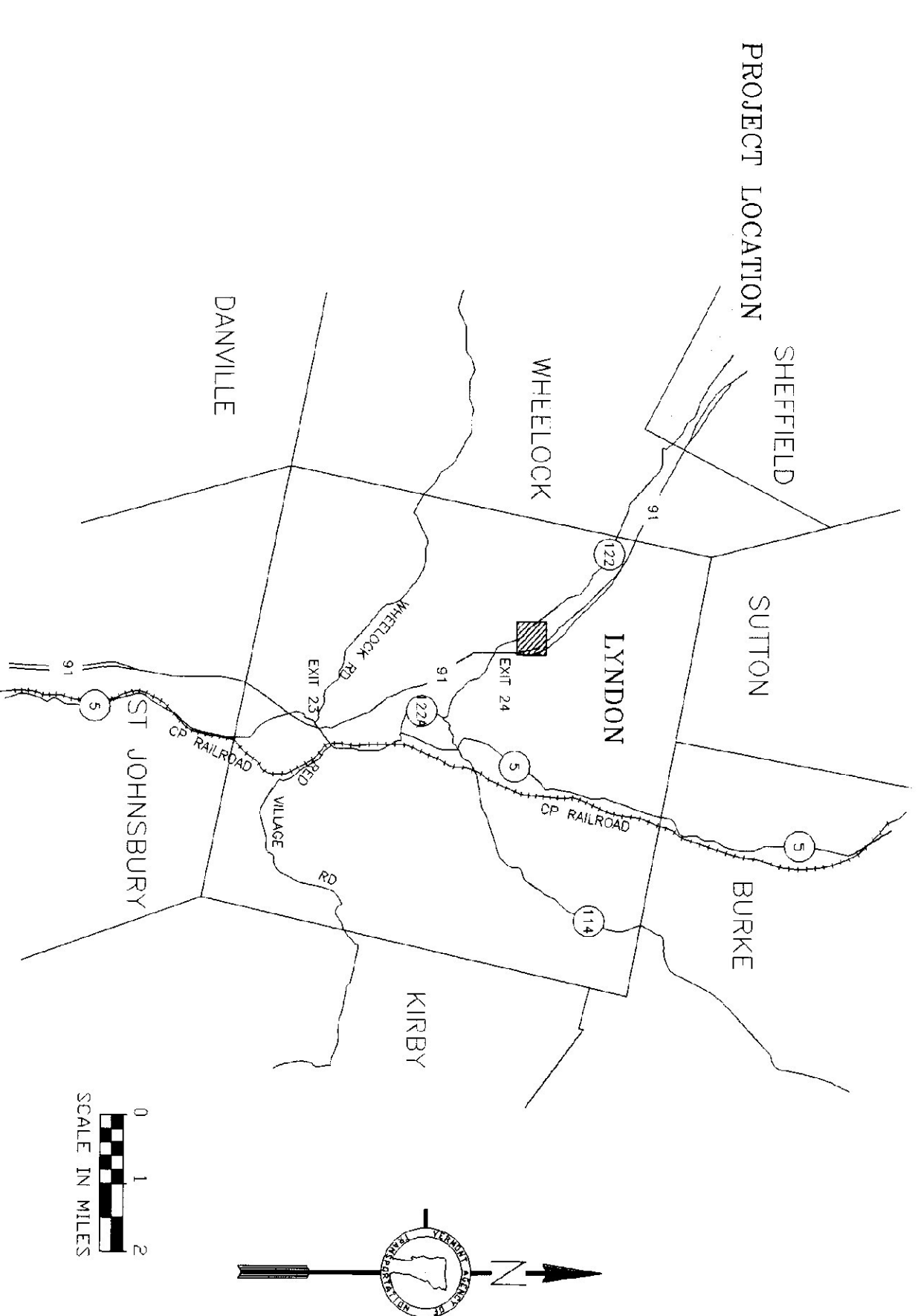
Howard Dean, M.D.
Governor

June 2000

INDEX OF SHEETS

1	TITLE SHEET
SD-1	GENERAL NOTES & DETAILS
SD-2	SITE PLAN
A-1	50'x64' SALT SHED - PLAN & DETAILS
A-2	50'x94' SALT SHED - PLAN & DETAILS
B-5	SLOPE GRADING, EMBANKMENTS, MUCK
B-11	METHODS OF SLOPE STABILIZATION
D-3	TREATED GUTTERS
T-1	TEMPORARY EROSION CONTROL DETAILS
T-2	TEMPORARY EROSION CONTROL DETAILS
L-1	PLANTING DETAILS

AGENCY OF ADMINISTRATION
AGENCY OF TRANSPORTATION
NATIONAL LIFE BUILDING
MONTPELIER, VERMONT 05633-5001
BRIAN SEARLES, SECRETARY



PROJECT LOCATION



NOTES:

1. ALL PROPOSED PAVEMENT SHALL HAVE A 1/4" THICK TYPE III WEARING COURSE AND A 3/4" THICK TYPE II BINDER COURSE, ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-28.
 2. TACK COAT ITEM 404.65, EMULSIFIED ASPHALT, IS TO BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON COLD PLANNED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.015 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
 3. AREAS NOTED ON THE PLANS TO HAVE EXISTING SURFACES REMOVED (PAID AS ITEM 203.28, EXCAVATION OF SURFACES AND PAVEMENTS, UNLESS OTHERWISE NOTED), SHALL HAVE CLEAN CUT EDGES ALONG JOINTS, TAKING CARE TO NOT DISTURB REMAINING PAVEMENT AND/OR SUBBASE. THE EXCAVATED MATERIAL SHALL BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY, AS DIRECTED BY THE RESIDENT ENGINEER.
- EXISTING SUBBASE MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3' +/- OR AS DIRECTED BY THE ENGINEER. EXCAVATED MATERIAL SHALL BE USED AS BORROW OR REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY, AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATION WILL BE PAID FOR AS ITEM 203.28 EXCAVATION OF SURFACES AND PAVEMENTS, UNLESS OTHERWISE NOTED.
- MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.26, SUBBASE OF CRUSHED GRAVEL (FINE GRADED).
- ALONG THE CUT EDGES OF PAVEMENT, THE SUBBASE SHALL BE BROUGHT UP TO GRADE WITH ITEM 301.26, SUBBASE OF CRUSHED GRAVEL (FINE GRADED), AS DIRECTED BY THE RESIDENT ENGINEER. SEE DETAILS ON THIS SHEET.

4. UPON COMPLETION OF THE GRADING OPERATIONS FOR EARTH SIDESLOPE AREAS, THE CONTRACTOR SHALL IMMEDIATELY ESTABLISH VEGETATION IN ACCORDANCE WITH THE SEEDING REQUIREMENTS ON THIS SHEET.

5. SEE VAOT STANDARD DRAWINGS T-1 AND T-2 FOR TEMPORARY EROSION CONTROL DETAILS.

6. ALL EXISTING MATERIAL STORED ON SITE (SAND, COLD PLANE GRINDINGS, BRUSH, ETC.) SHALL BE REMOVED BY VAOT PRIOR TO CONSTRUCTION.

7. UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL WORK WITH THE VAOT IN DETERMINING ACTUAL LOCATION OF UTILITIES.

8. CONTRACTOR SHALL SUPPLY UNDERGROUND POWER TO NEW SHEDS, AND SHALL CONTACT THE LOCAL POWER COMPANY(S) CONCERNING THIS WORK. ANY EXISTING CIRCUITS MAY BE USED IF APPLICABLE. CONTRACTOR SHOULD FIELD VERIFY EXISTING CIRCUITS. GENERAL WIRING SHALL BE PVC CONDUIT WITH WIRE SUITABLE FOR UNDERGROUND OR WET LOCATION WITH NOT MORE THAN 3% VOLTAGE DROP FROM SOURCE TO END OF CIRCUIT, AND SHALL MEET ALL LOCAL AND NEC REQUIREMENTS. CONTRACTOR SHALL SUPPLY RESIDENT ENGINEER WITH A SKETCH SIGNED BY A MASTER ELECTRICIAN, SHOWING ROUTING AND METHOD OF LAYING CONDUIT/SUPPLY WIRING; AND COPIES OF ALL ELECTRICAL PERMITS.

CIRCUITS AND WIRING SHALL HAVE ENOUGH CAPACITY TO ALLOW FUTURE EXTENSION (BY OTHERS) TO ACCOMMODATE A CHLORIDE PUMP AND AN OVERHEAD LIGHT (BY OTHERS). ASSUME THE CHLORIDE TANK INSTALLATION (BY OTHERS) WILL BE WITHIN 50' OF THE SALT/SAND SHED THAT IS FURTHEST FROM THE POWER SOURCE. CHECK WITH DISTRICT ON PUMP POWER REQUIREMENTS.

ALL COSTS ASSOCIATED WITH THIS WORK (EXTENSION OF EXISTING POWER SUPPLY TO PROPOSED STRUCTURES) INCLUDING ALL TOOLS, EQUIPMENT, MATERIALS, LABOR AND INCIDENTALS NECESSARY TO PROVIDE A FULL FUNCTIONAL ELECTRICAL SYSTEM/SUPPLY, AND ALL ELECTRICAL PERMITS) WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM 658.15 - ROADSIDE REST FACILITY (MODIFIED).

SEEDING FORMULA RURAL AREAS			
% WT.	LBS./A.	PUR. %	GERM. %
37.5	22.5	98	85
37.5	22.5	95	90
5.0	3.0	95	90
15.0	9.0	98	85
5.0	3.0	95	85
100.0	60.0		

SEEDING FORMULA URBAN AREAS			
% WT.	LBS./A.	PUR. %	GERM. %
42.5	34.0	98	85
10.0	8.0	95	90
42.5	34.0	85	85
5.0	4.0	95	85
100.0	80.0		

SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

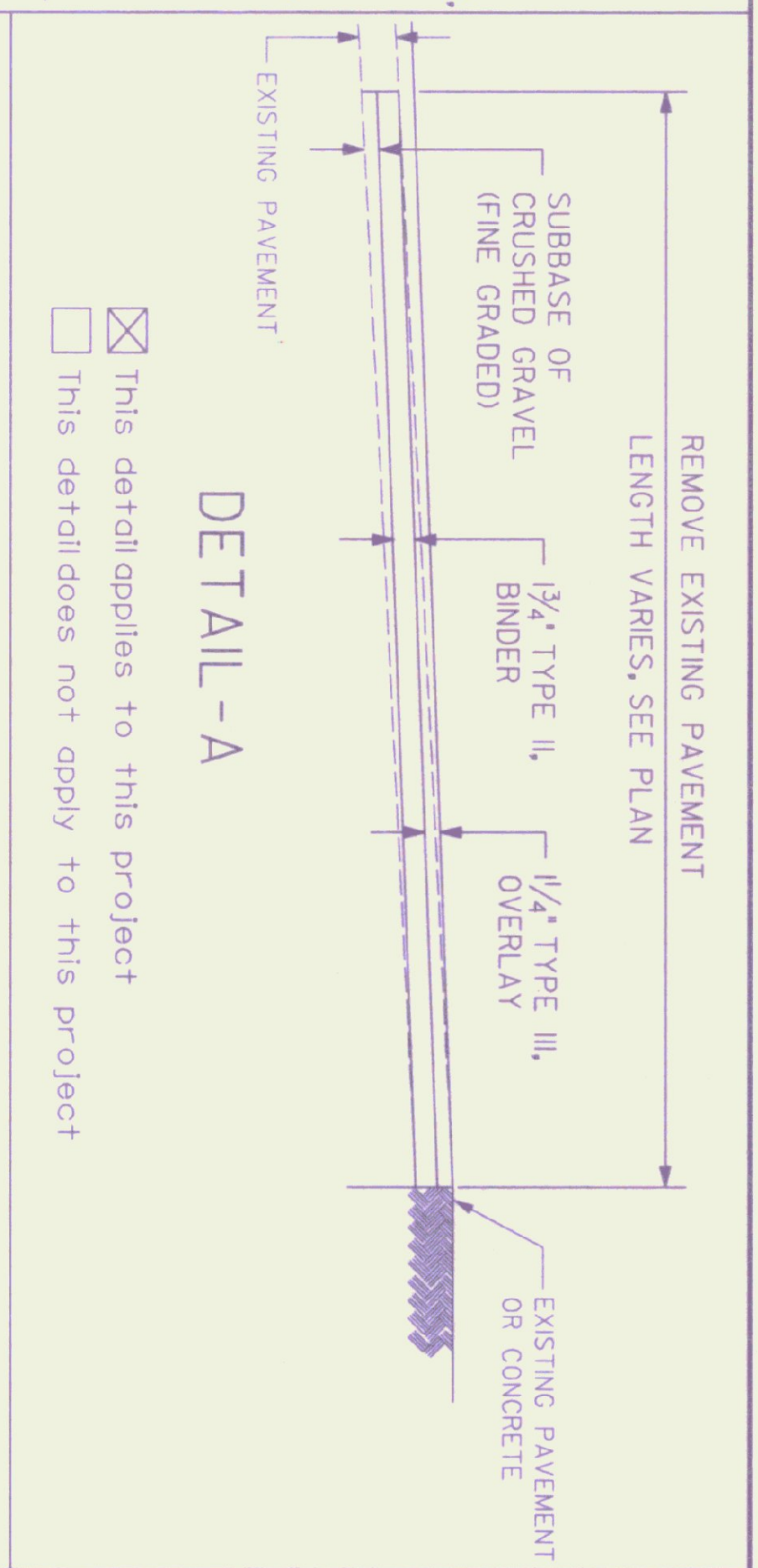
SEEDS TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE ENGINEER. FERTILIZER, FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

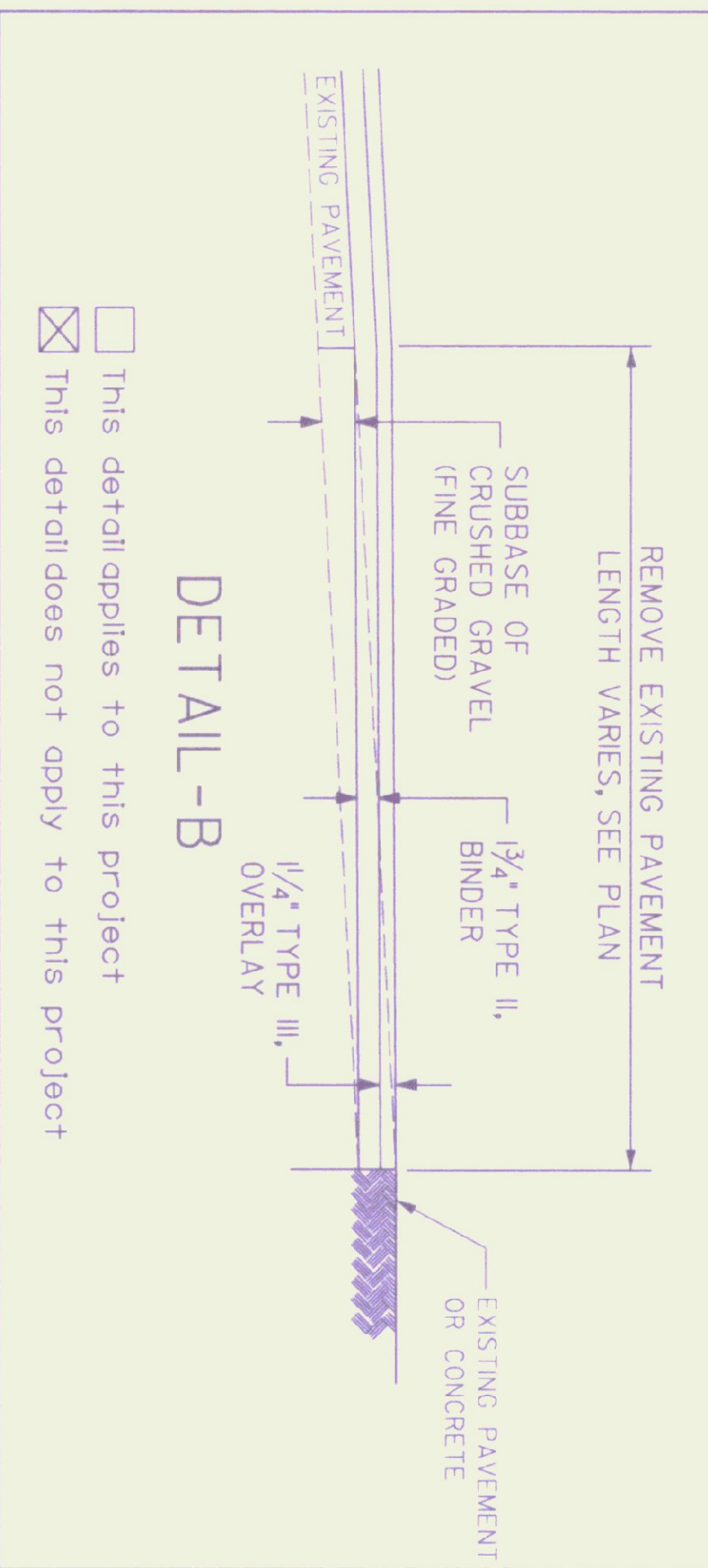
HAY MULCH TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

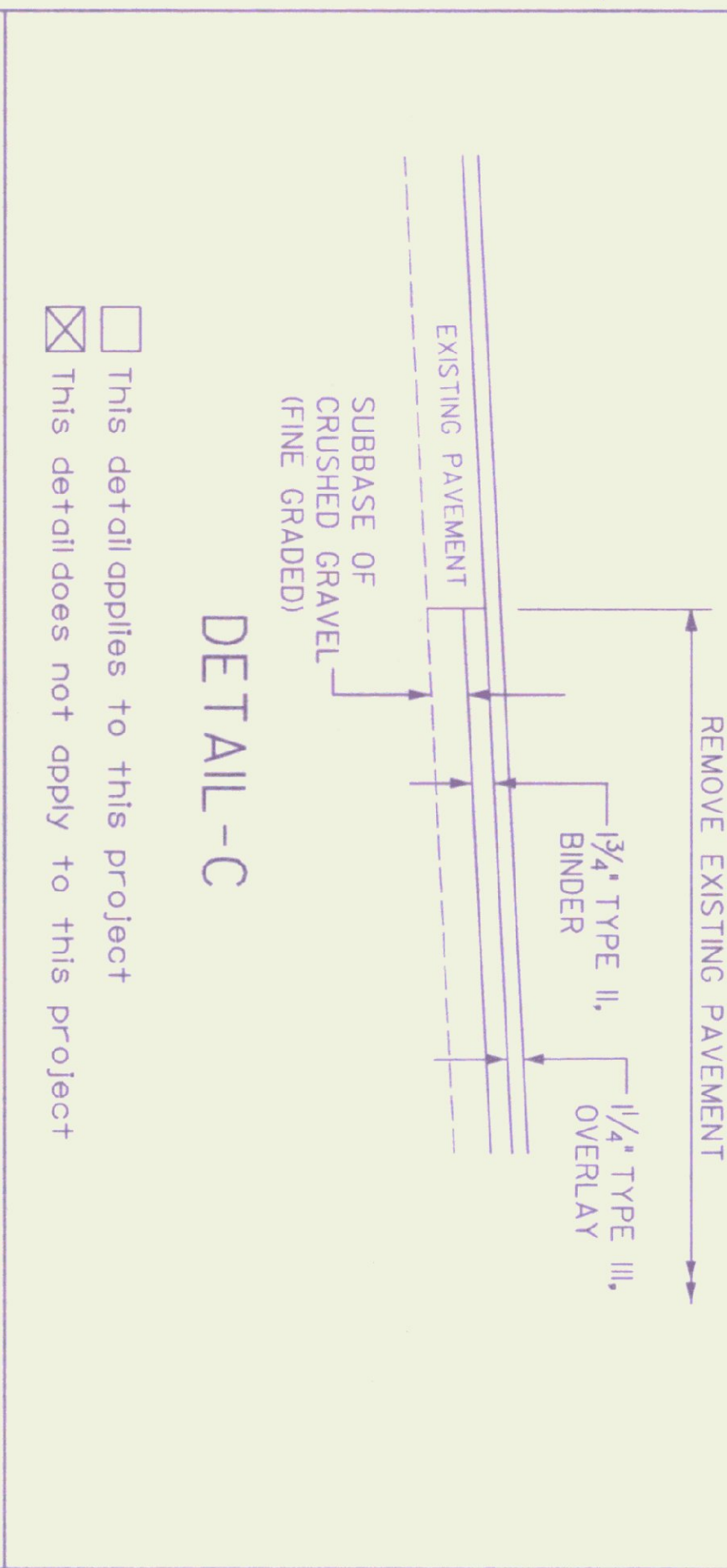
DATUM
VERTICAL
HORIZONTAL



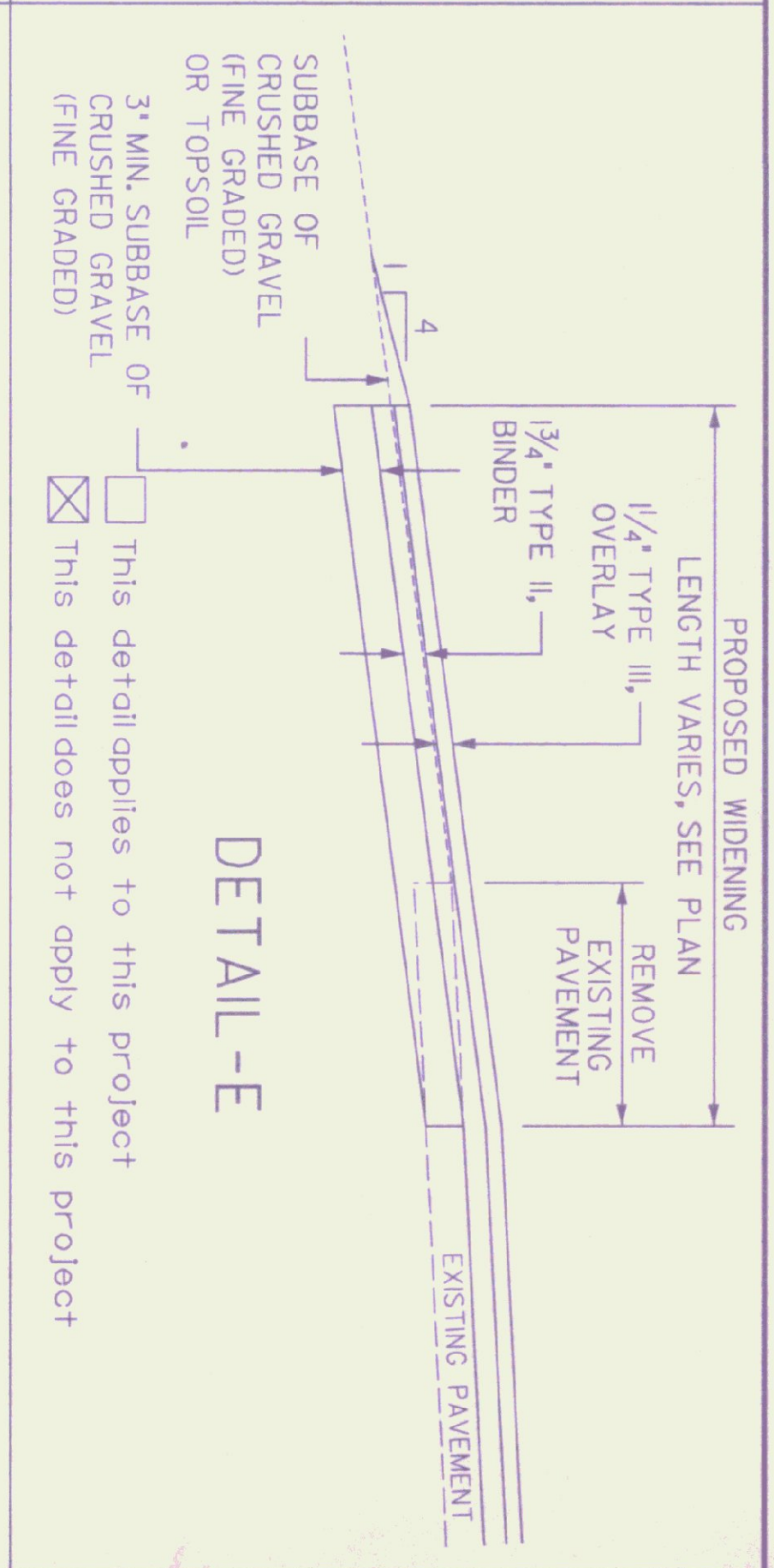
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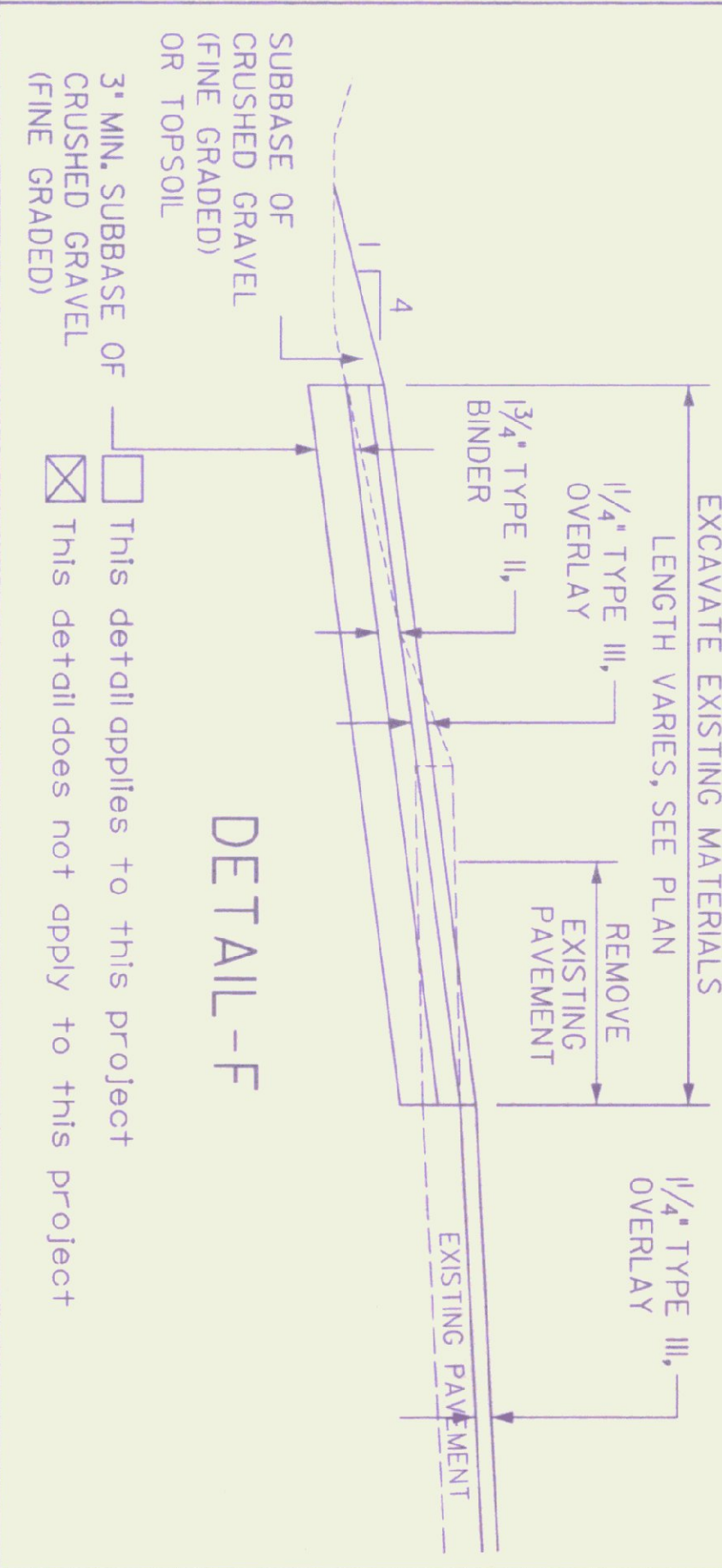
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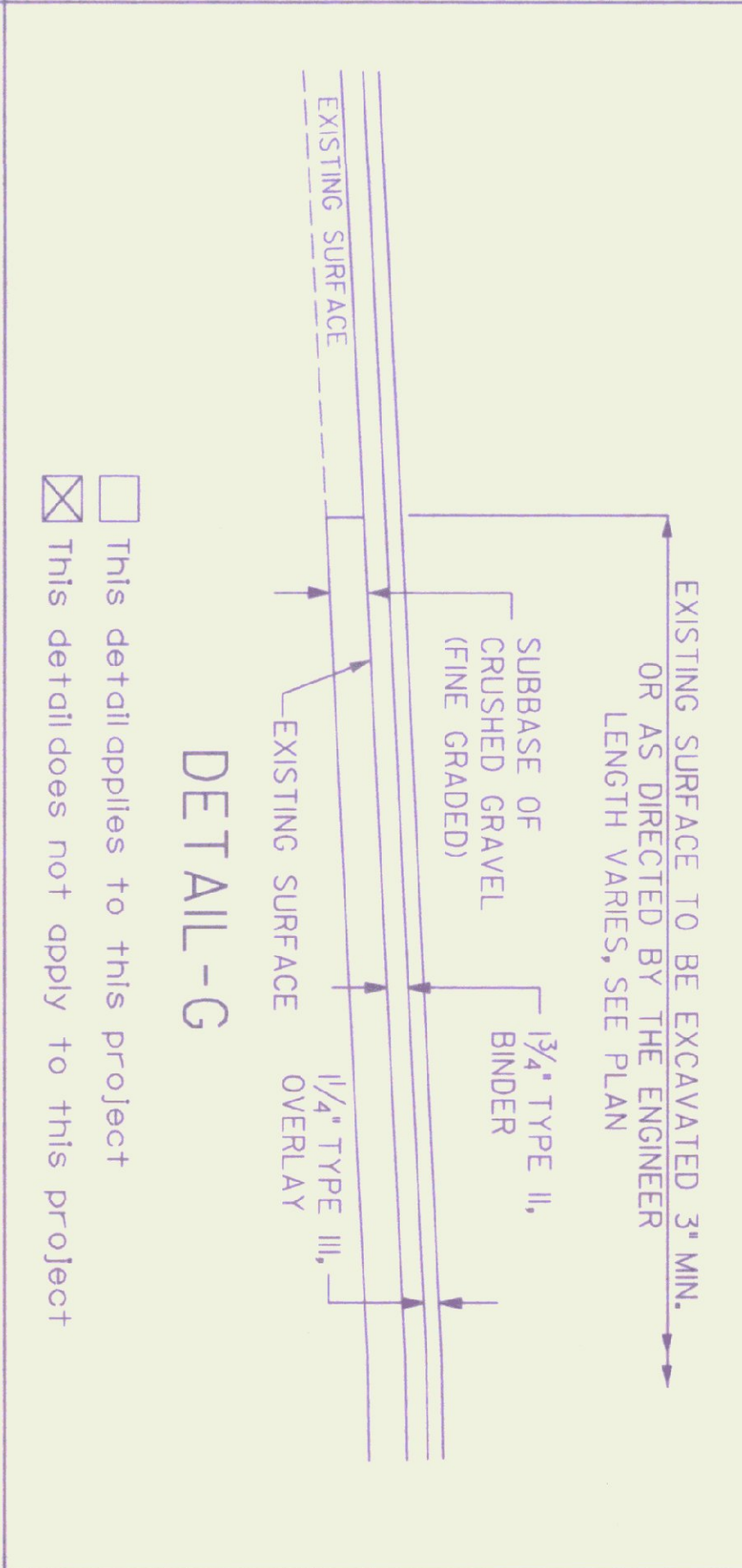
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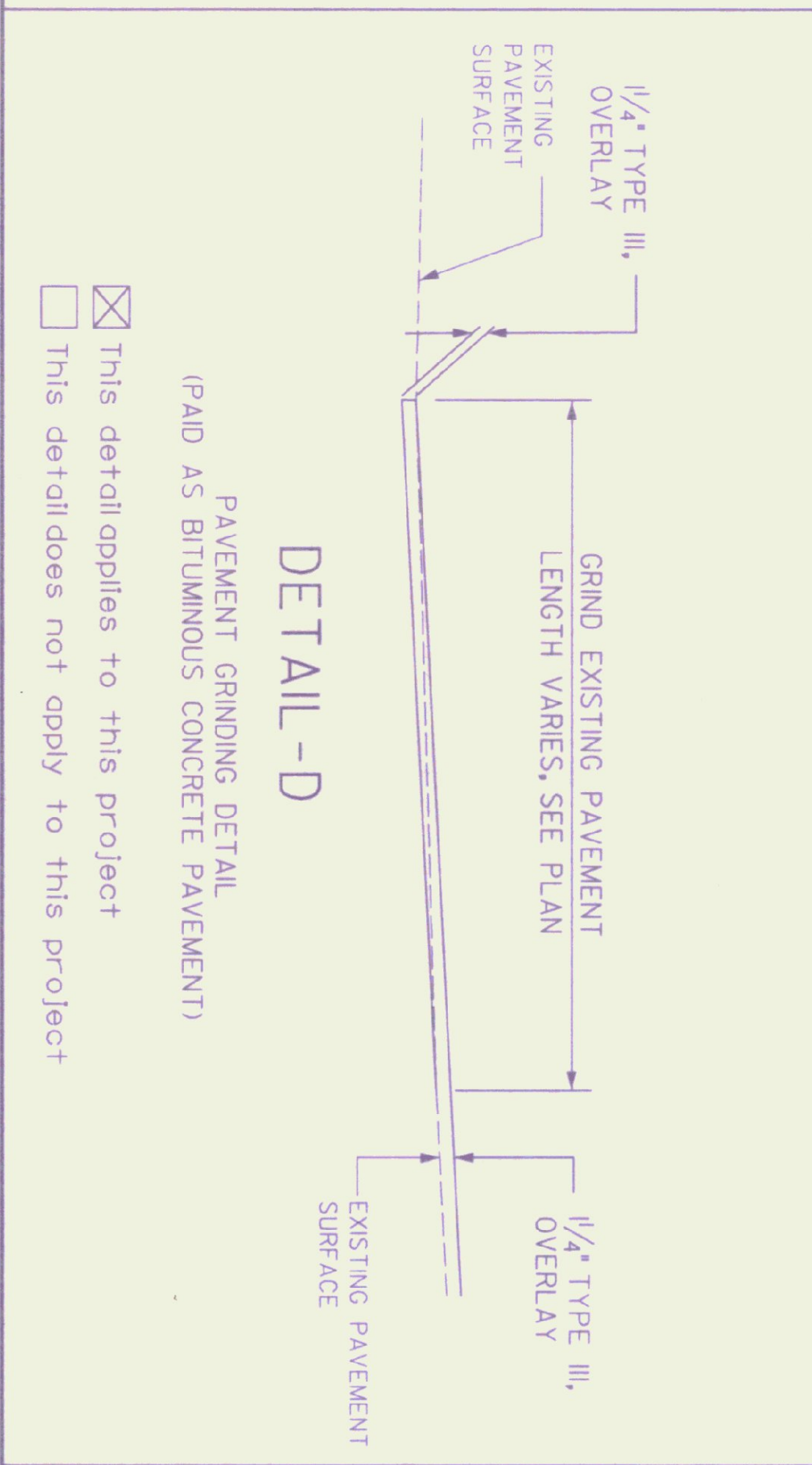
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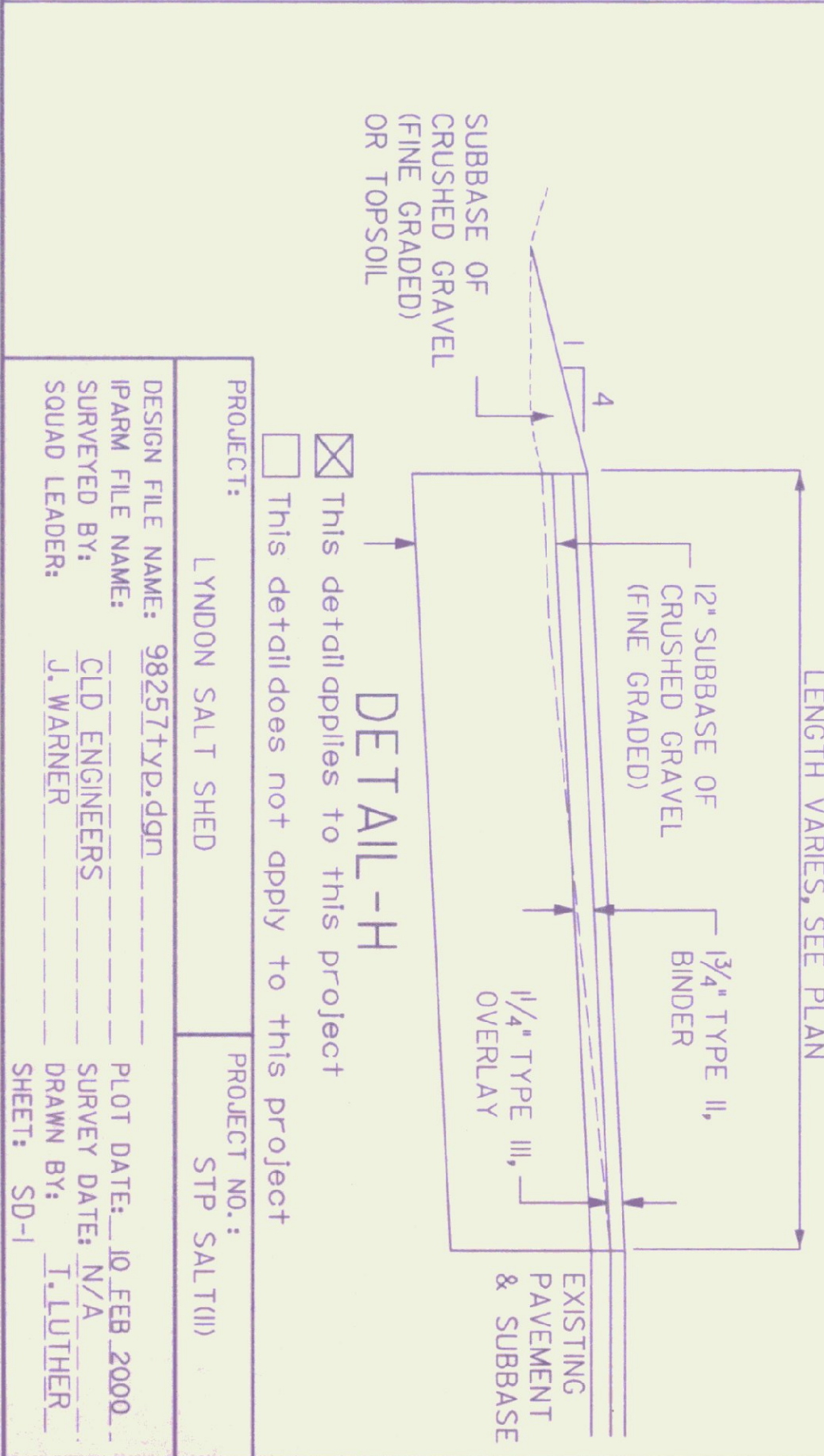
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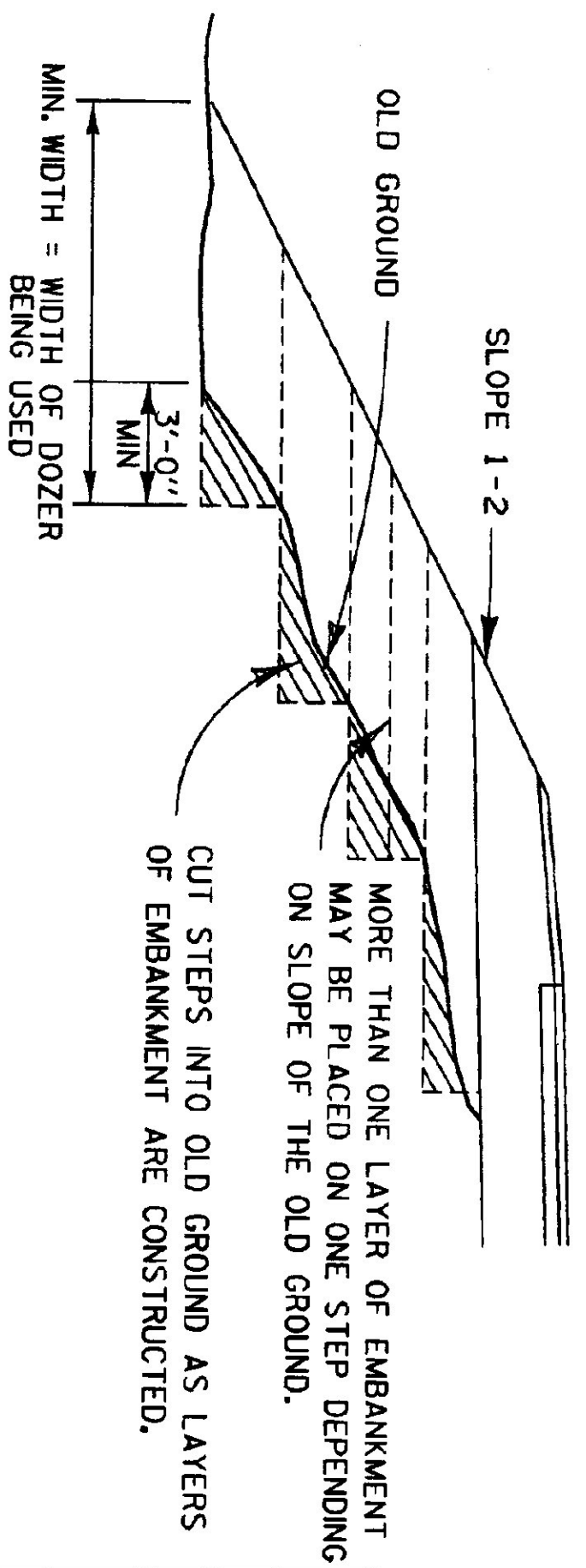


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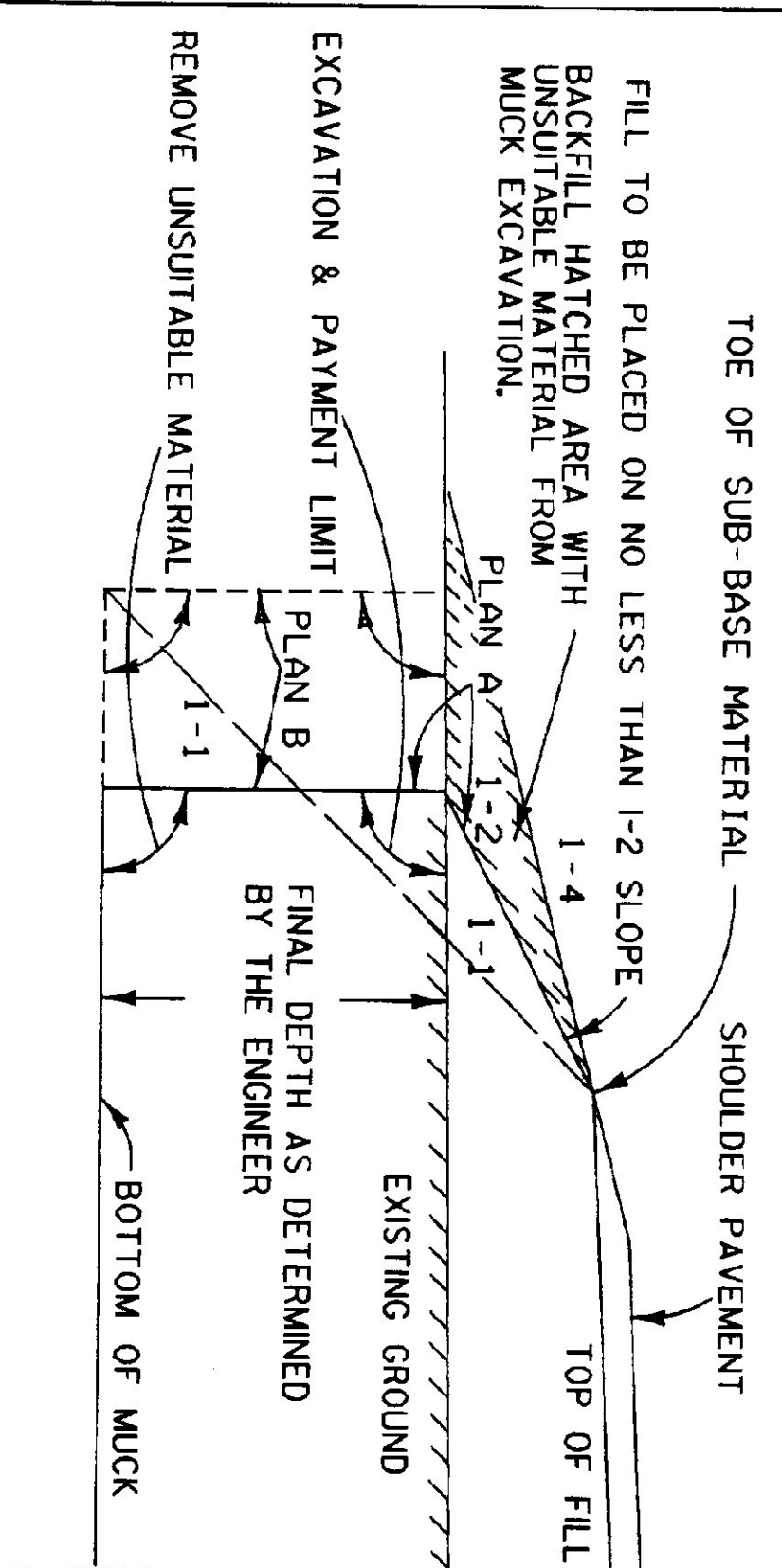
PAVEMENT GRINDING DETAIL
(PAID AS BITUMINOUS CONCRETE PAVEMENT)

PROJECT: LYNDON SALT SHED PROJECT NO.: STP SALT(II)

DESIGN FILE NAME: 98257Tyr.dgn
 P101 DATE: 10 FEB 2000
 P101 FILE NAME: CLD_ENGINEERS SURVEY DATE: N/A
 SURVEYED BY: J. WARNER DRAWN BY: T. LUTHER
 SOUND LEADER: SHEET: SD-1

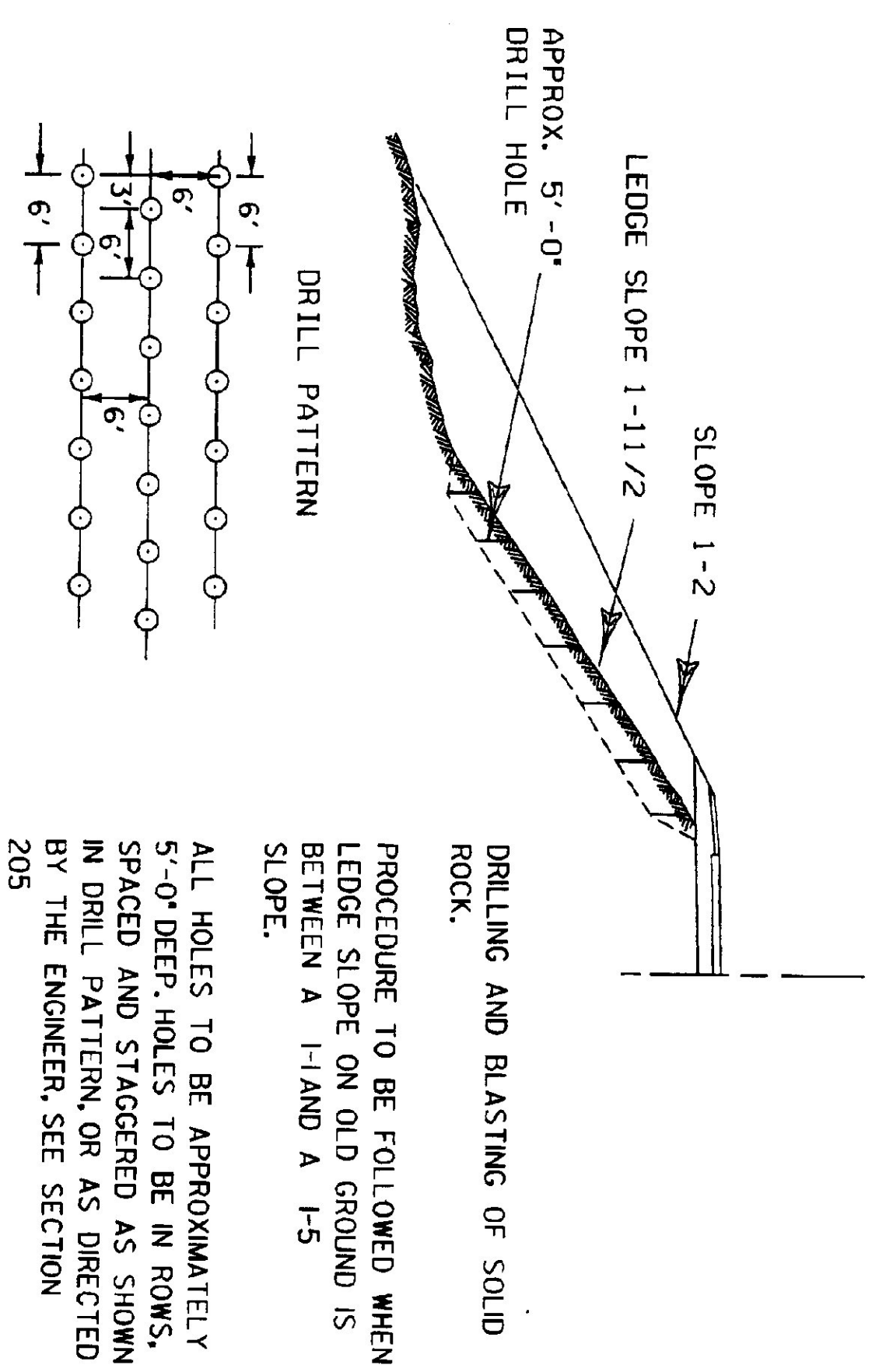


METHOD FOR CONSTRUCTING AN EMBANKMENT ON EARTH SLOPE



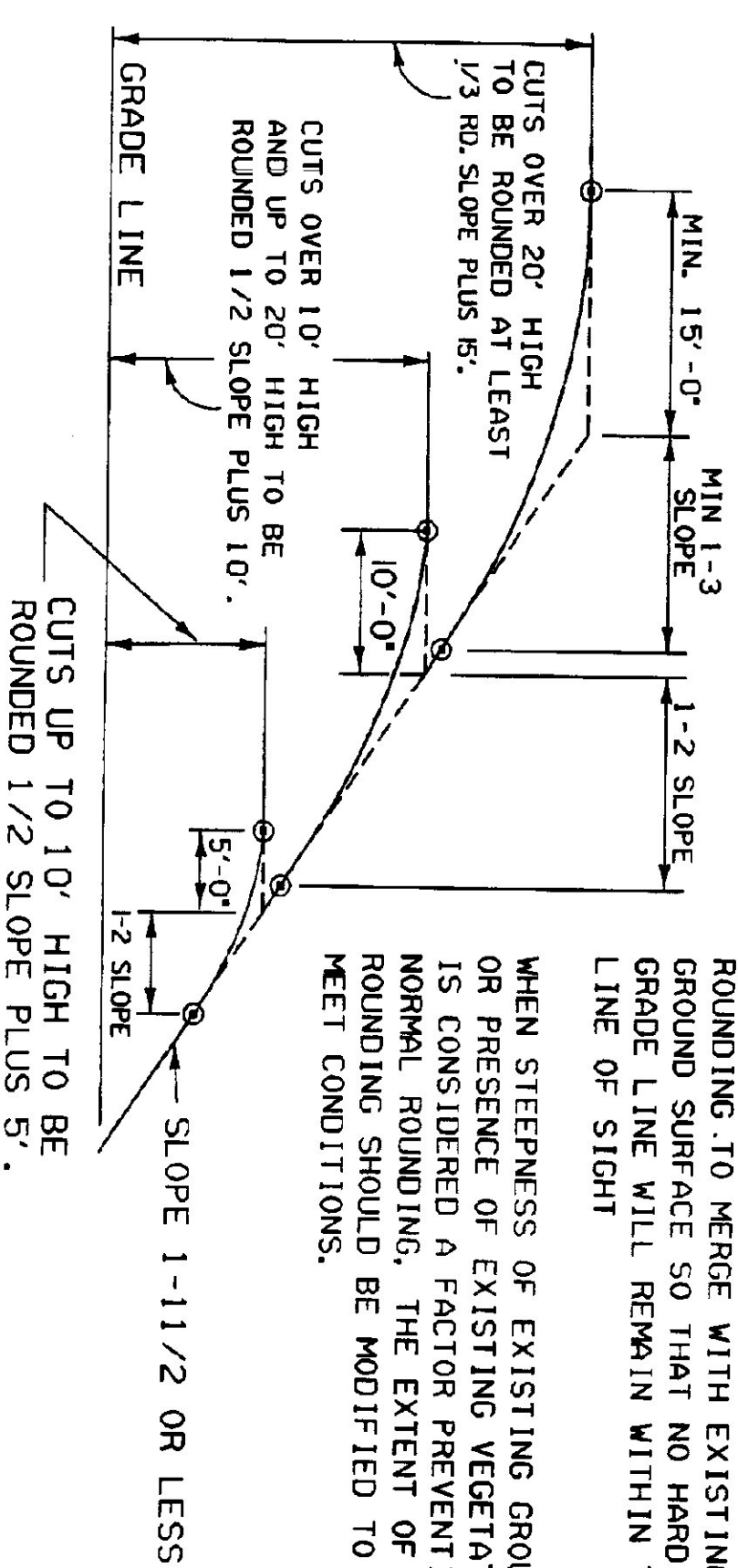
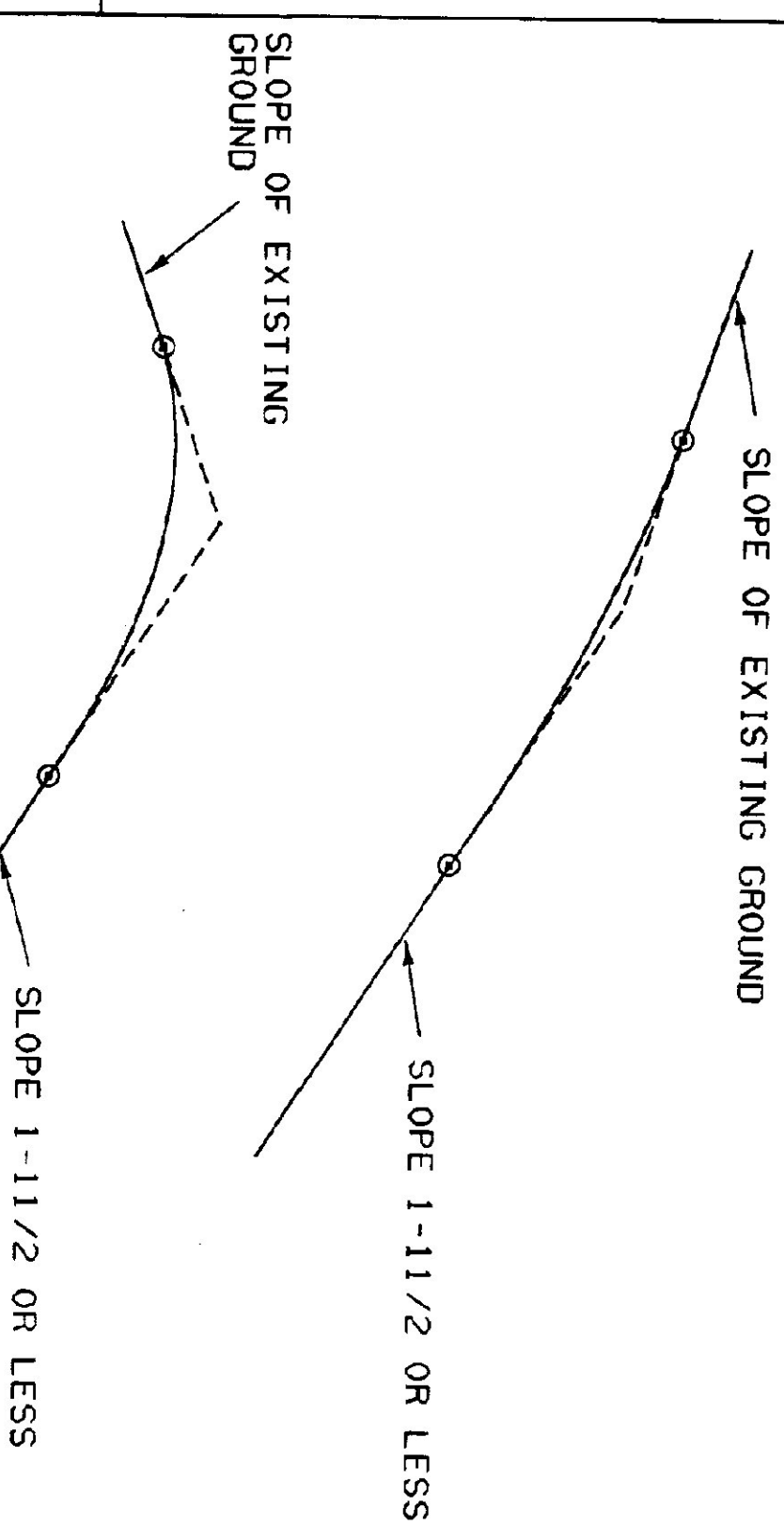
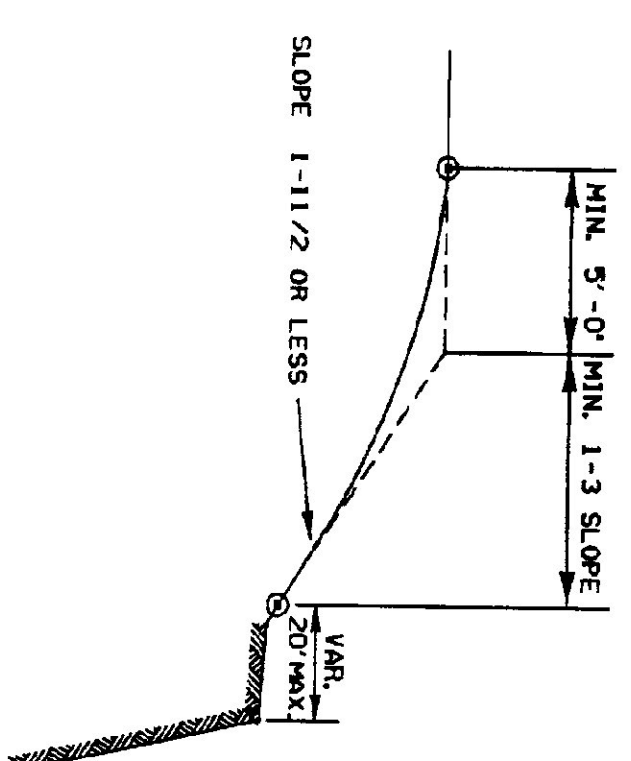
GENERAL NOTES:
 THE MUCK OR UNSUITABLE MATERIAL SHALL BE EXCAVATED TO THE NEAT LINES SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER.
 EXCAVATION AND PAYMENT LIMIT WILL BE DETERMINED FROM EITHER PLAN 'A' OR PLAN 'B', WHICHEVER PRODUCES THE GREATER WIDTH IN A GIVEN MUCK AREA.
 BACKFILL MATERIAL MUST MEET THE REQUIREMENTS SET FORTH UNDER MUCK EXCAVATION, SECTION 203

TYPICAL NEAT PAY LINES FOR MUCK EXCAVATION



A METHOD FOR PREPARING LEDGE SLOPE BEFORE CONSTRUCTING AN EMBANKMENT

EMBANKMENT ON EARTH SLOPE
 EMBANKMENT ON ROCK SLOPE
 MUCK EXCAVATION
 TYPICAL SLOPE ROUNDING



TYPICAL SLOPE ROUNDING

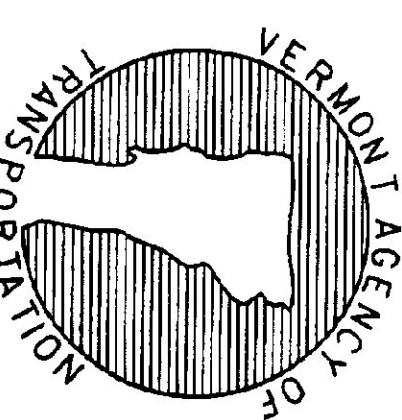
REVISIONS AND CORRECTIONS

DEC. 6, 1971 - ORIGINAL APPROVAL DATE
 JUNE 1, 1994 - REISSUED WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

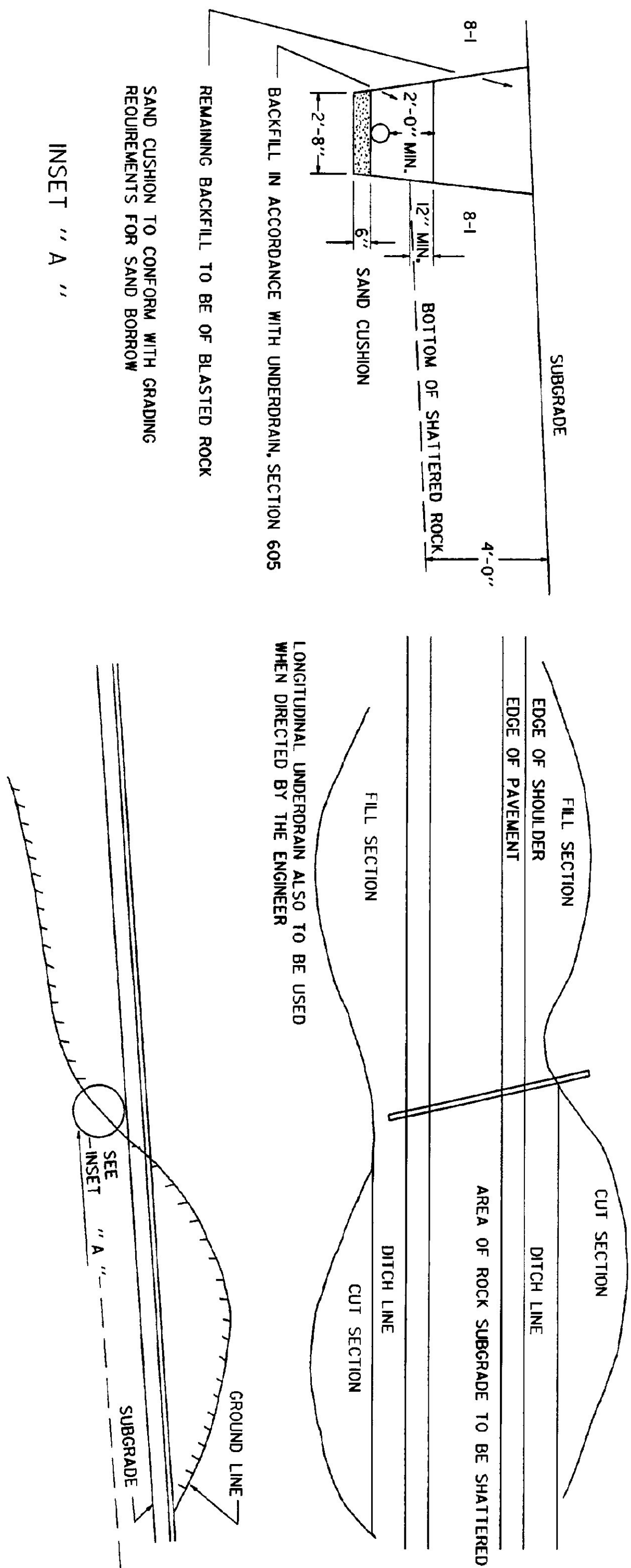
APPROVED FOR THIS PROJECT AND/OR DESIGN REPRESENTATION FROM FINAL APPROVAL FIELDS:

Signature
 DIRECTOR OF ENGINEERING
 DESIGN ENGINEER



STANDARD

B-5



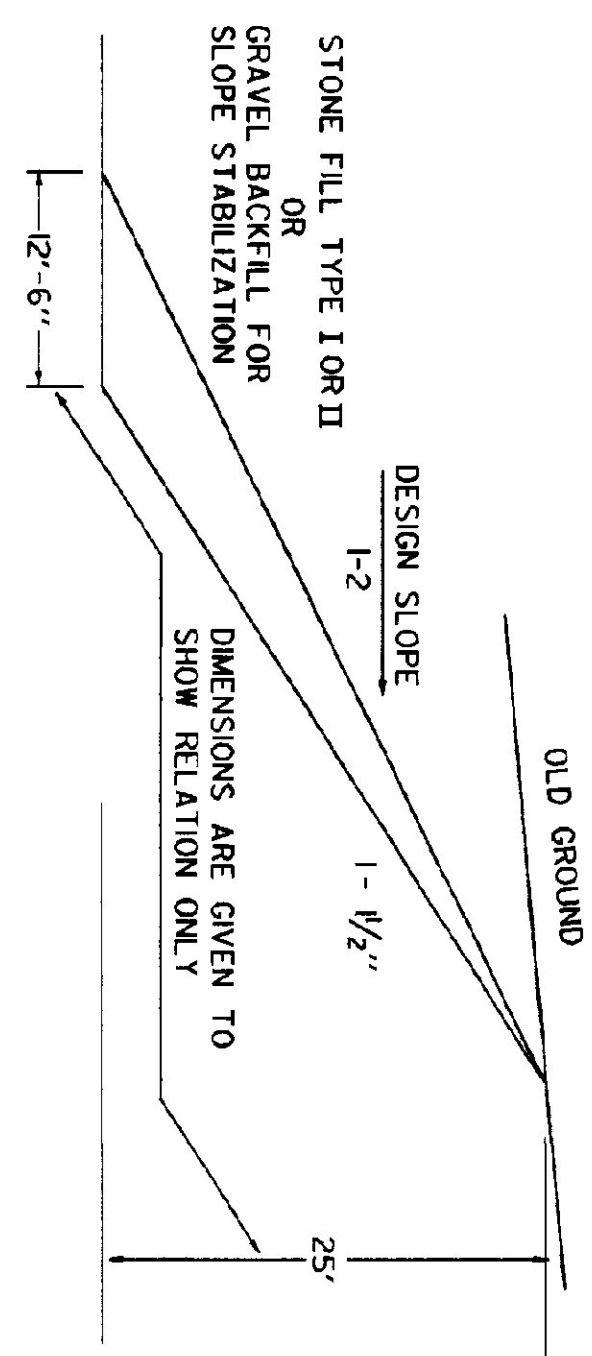
USE OF UNDERDRAIN WITH SHATTERED ROCK SUBGRADE

INSET " A "

BACKFILL IN ACCORDANCE WITH UNDERDRAIN, SECTION 605
REMAINING BACKFILL TO BE OF BLASTED ROCK
SAND CUSHION TO CONFORM WITH GRADING REQUIREMENTS FOR SAND BORROW

LONGITUDINAL UNDERDRAIN ALSO TO BE USED WHEN DIRECTED BY THE ENGINEER

EXPOSED STABILIZED AREA TO BE COVERED WITH EARTH AND SEEDED, FERTILIZED LIMED AND MULCHED



BLANKET OF VARYING DEPTH

EXPOSED STABILIZED AREA TO BE COVERED WITH EARTH AND SEEDED, FERTILIZED, LIMED AND MULCHED

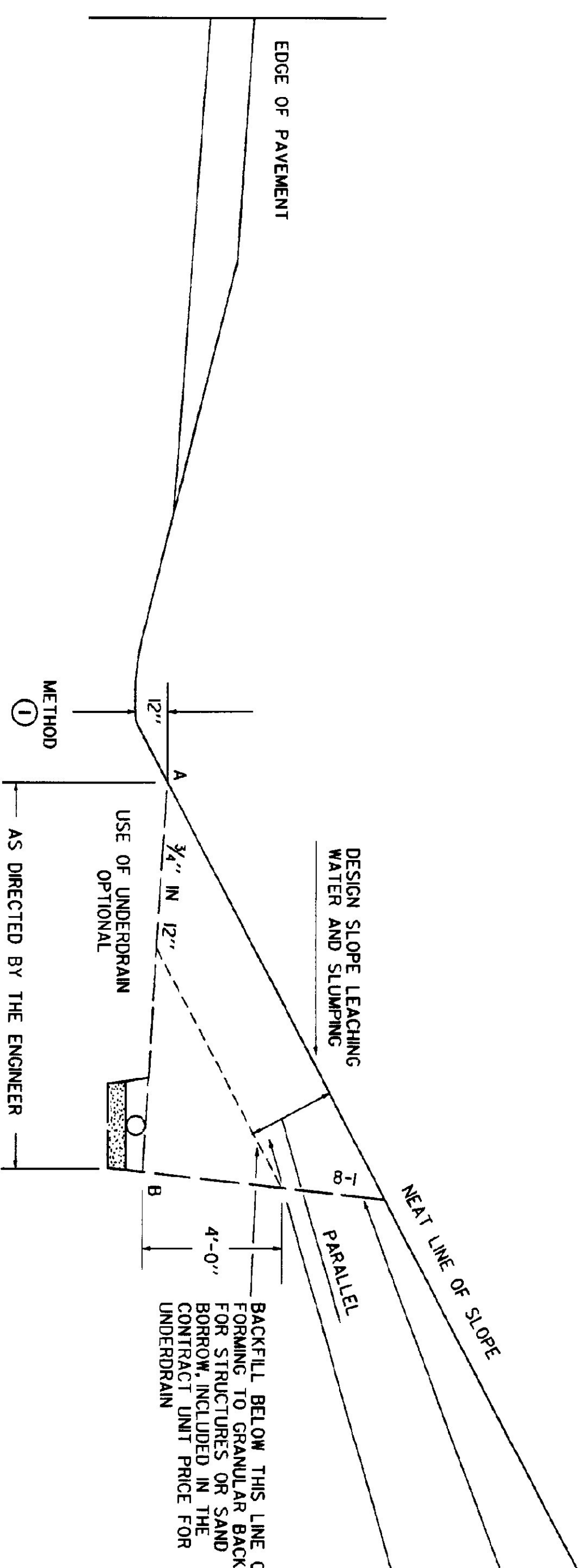
EDGE OF PAVEMENT

BLANKET SLOPE STABILIZATION METHOD

LIMIT OF EXCAVATION TO BE PAID FOR AS EXCAVATION, SECTION 203

BLANKET OF STONE FILL TYPE I OR 2 OR GRAVEL BACKFILL FOR SLOPE STABILIZATION

ESTIMATED SUBSURFACE WATER TABLE



EXPOSED STABILIZED AREA TO BE COVERED WITH EARTH AND SEEDED, FERTILIZED LIMED AND MULCHED

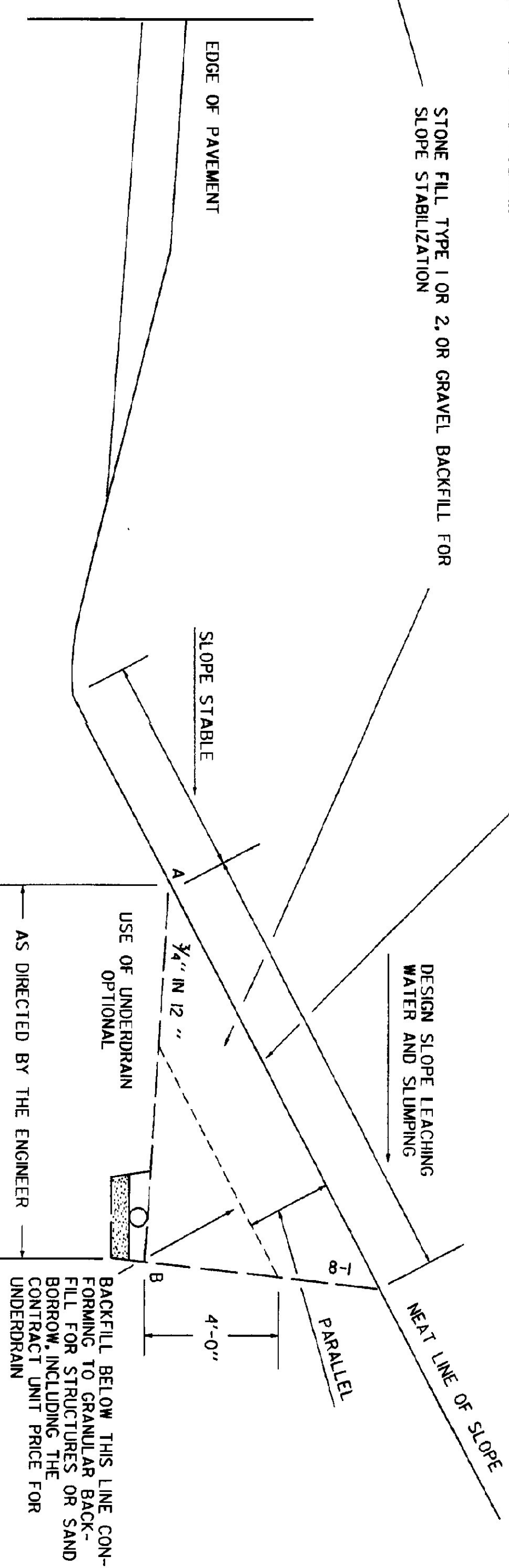
STONE FILL TYPE I OR 2, OR GRAVEL BACKFILL FOR SLOPE STABILIZATION

DESIGN SLOPE LEACHING WATER AND SLUMPING

BACKFILL BELOW THIS LINE CONFORMING TO GRANULAR BACKFILL FOR STRUCTURES OR SAND BORROW, INCLUDING THE CONTRACT UNIT PRICE FOR UNDERDRAIN

METHOD (2)

WHEN A NEWLY CONSTRUCTED SLOPE IS LEACHING WATER AND SLUMPING, IT CAN BE STABILIZED BY ONE OF THE SUGGESTED METHODS SHOWN ABOVE. EXCAVATION ABOVE LINE A-B, TO BE PAID FOR AS EXCAVATION, SECTION 203. GRAVEL USED FOR BACKFILL TO MEET THE SPECIFICATIONS AND TO BE PAID FOR AS GRAVEL BACKFILL FOR SLOPE STABILIZATION. ROCK USED FOR BACKFILL TO MEET THE SPECIFICATIONS AND TO BE PAID FOR AS STONE FILL, TYPES I OR II. EXCAVATION BELOW LINE A-B, TO BE PAID FOR AS TRENCH EXCAVATION.



REVISIONS AND CORRECTIONS

DEC. 6, 1971 - ORIGINAL APPROVAL DATE
DEC. 12, 1974 - STONE FILL ADDED FOR STABILIZATION
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

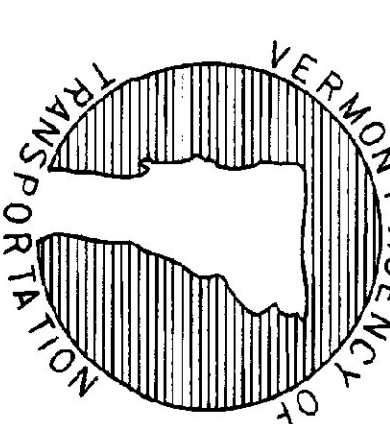
APPROVED

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FINAL FINAL APPROVAL TENDON

Edward J. McCallister, P.E.
DIRECTOR OF ENGINEERING
Richard D. Murray, P.E.
DESIGN ENGINEER

USE OF UNDERDRAIN WITH SHATTERED ROCK SUBGRADE

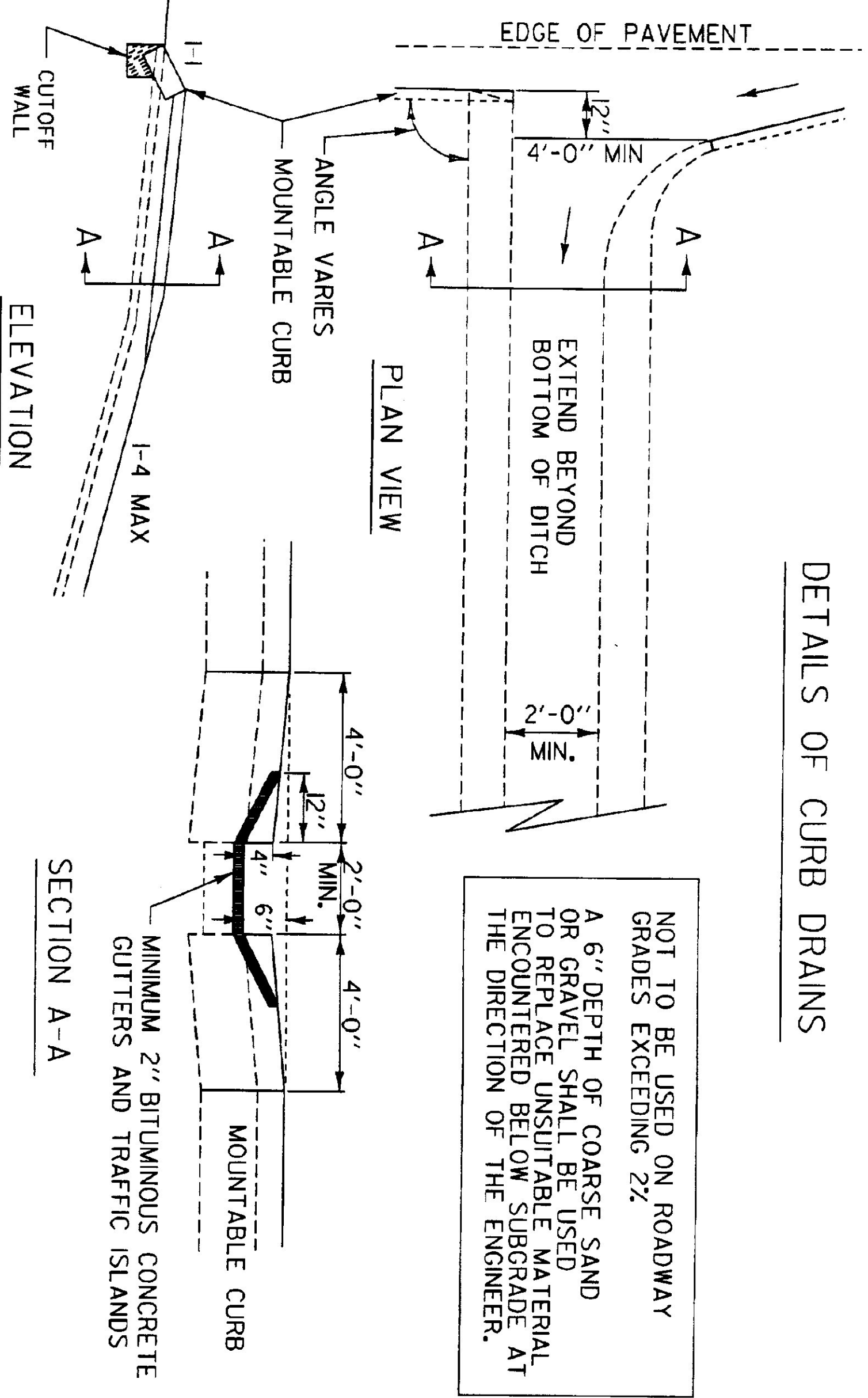
METHODS OF SLOPE STABILIZATION



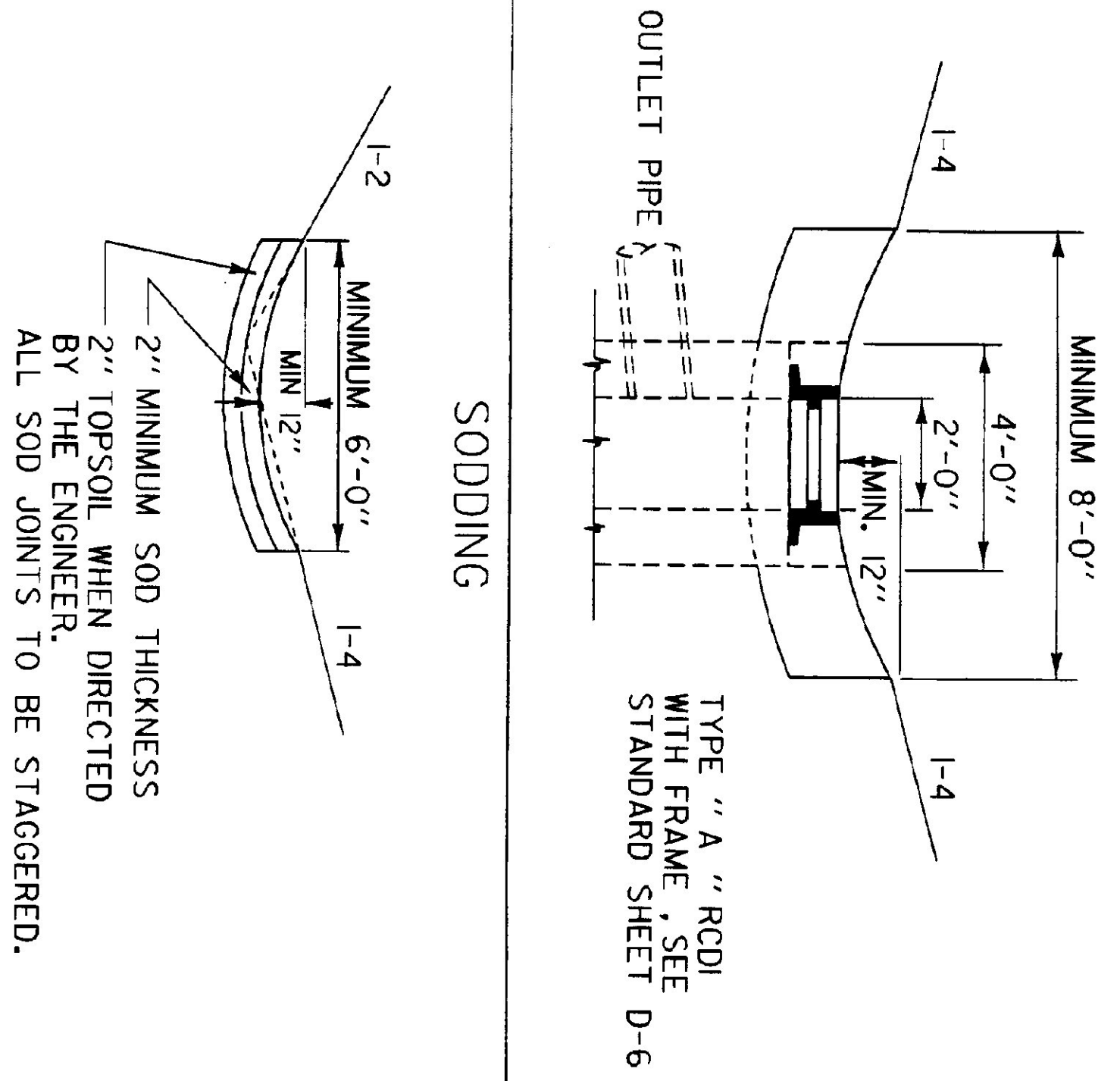
STANDARD

B-11

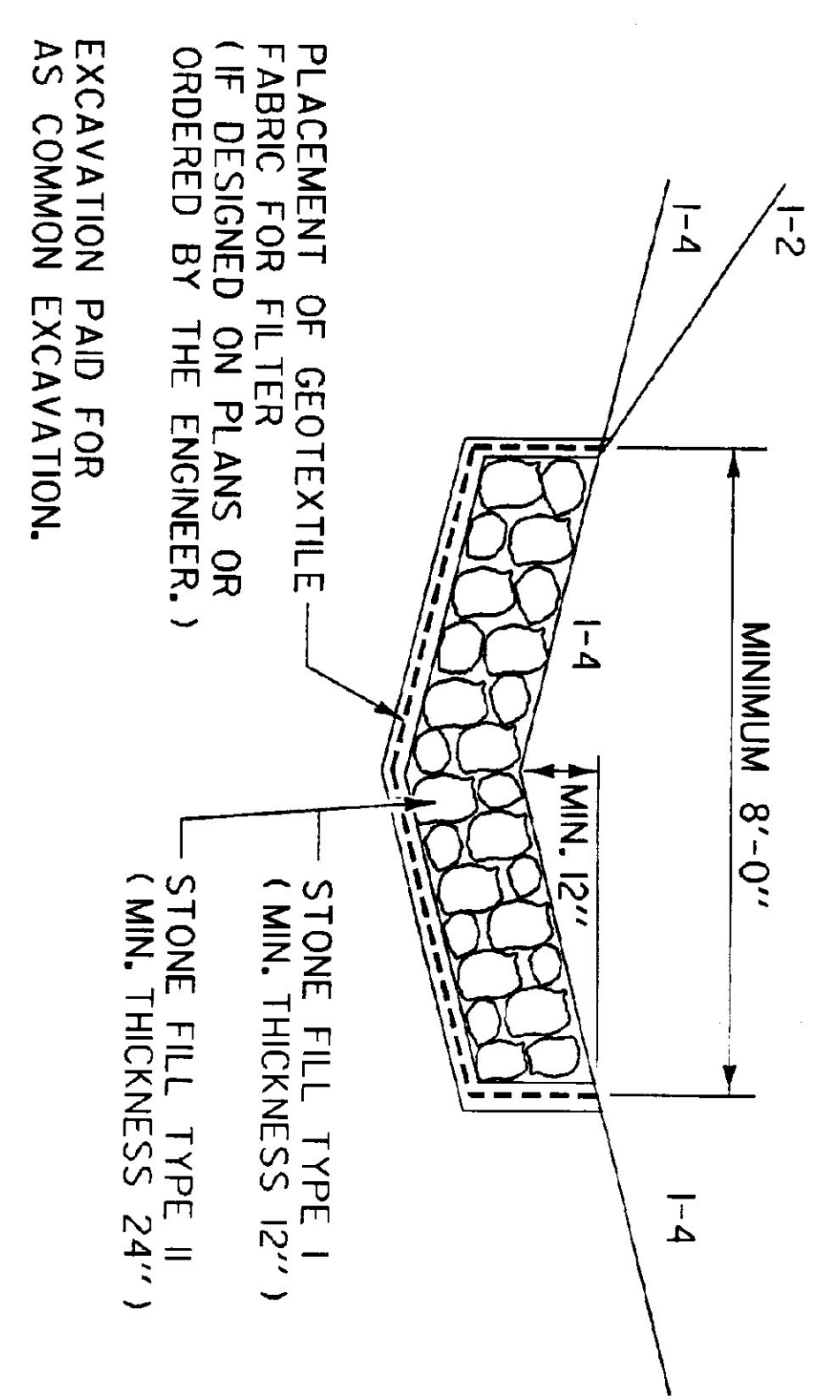
DETAILS OF CURB DRAINS



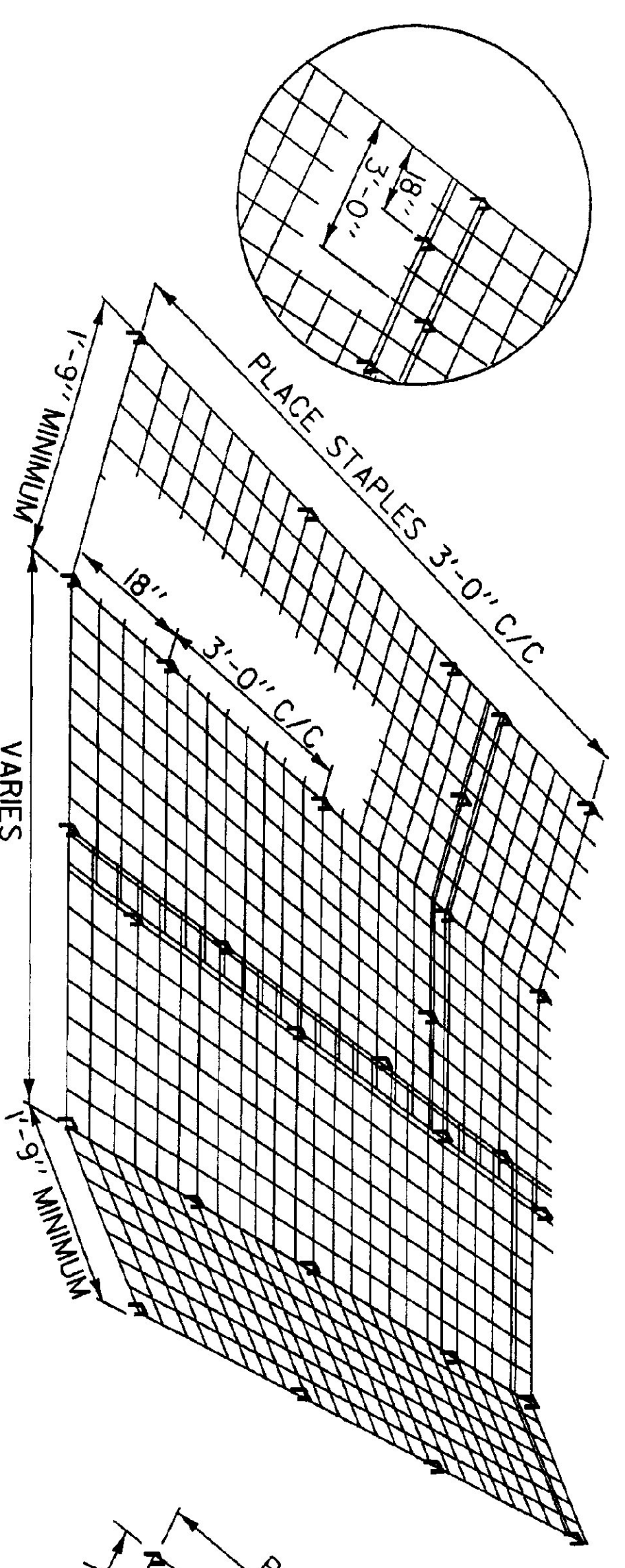
DROP INLET WITH GRATE IN TREATED CUTTER



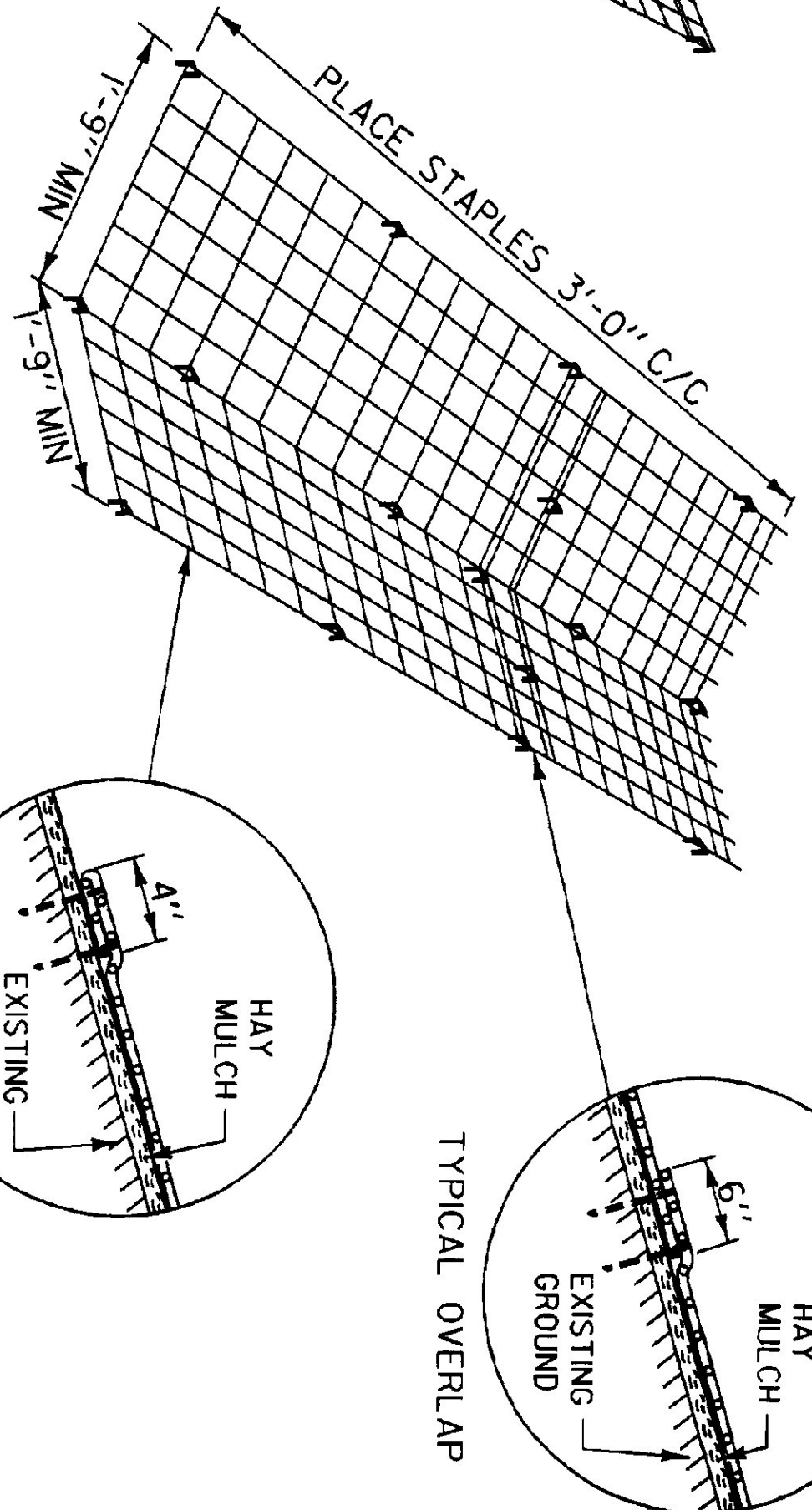
**STONE FILL TYPE I
STONE FILL TYPE II**



ON ALL OVERLAPS, PLACE STAPLES EVERY 18", ALTERNATING ON BOTH SIDES OF 6" OVERLAP.



TYPICAL FLAT BOTTOM DITCH



TYPICAL "V" DITCH

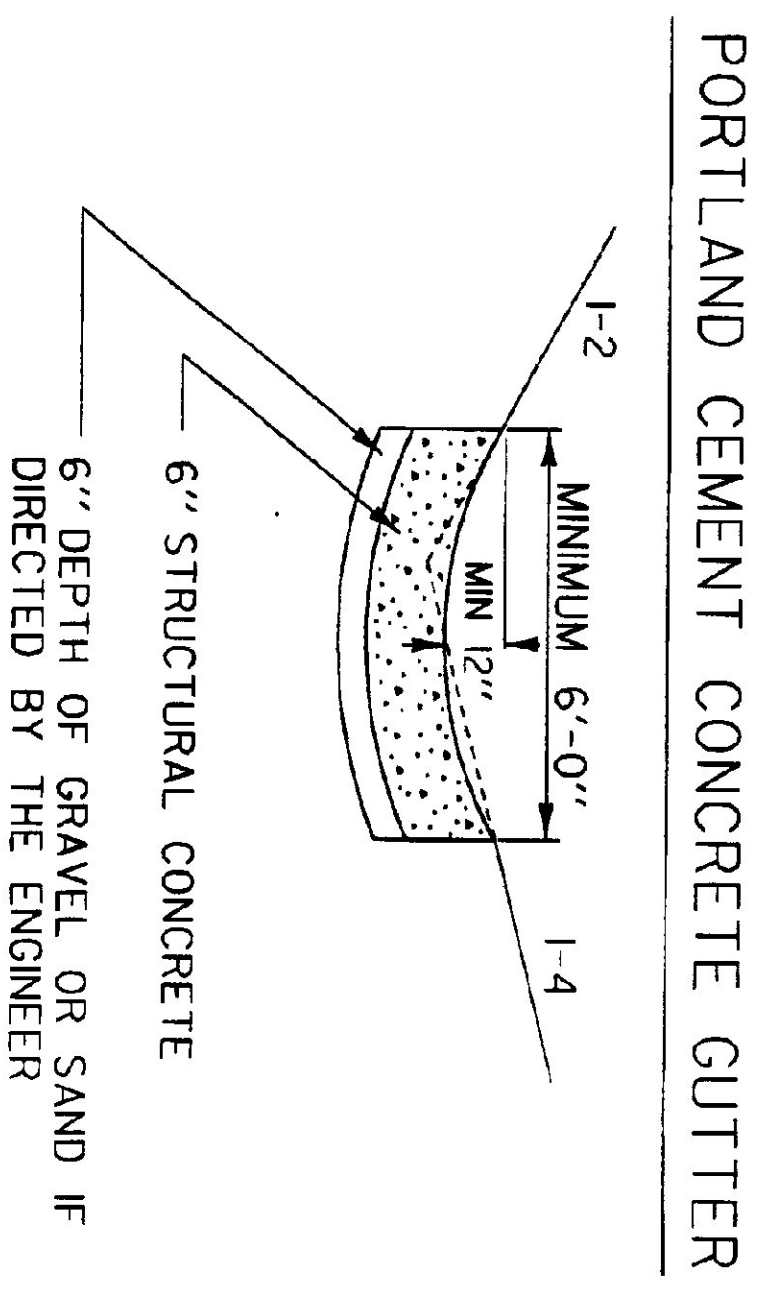
DETAILS OF PLACING EROSION MATTING

REVISIONS AND CORRECTIONS
APR. 2, 1986 - ORIGINAL APPROVAL DATE
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE,
UNDER NEW SIGNATURES.

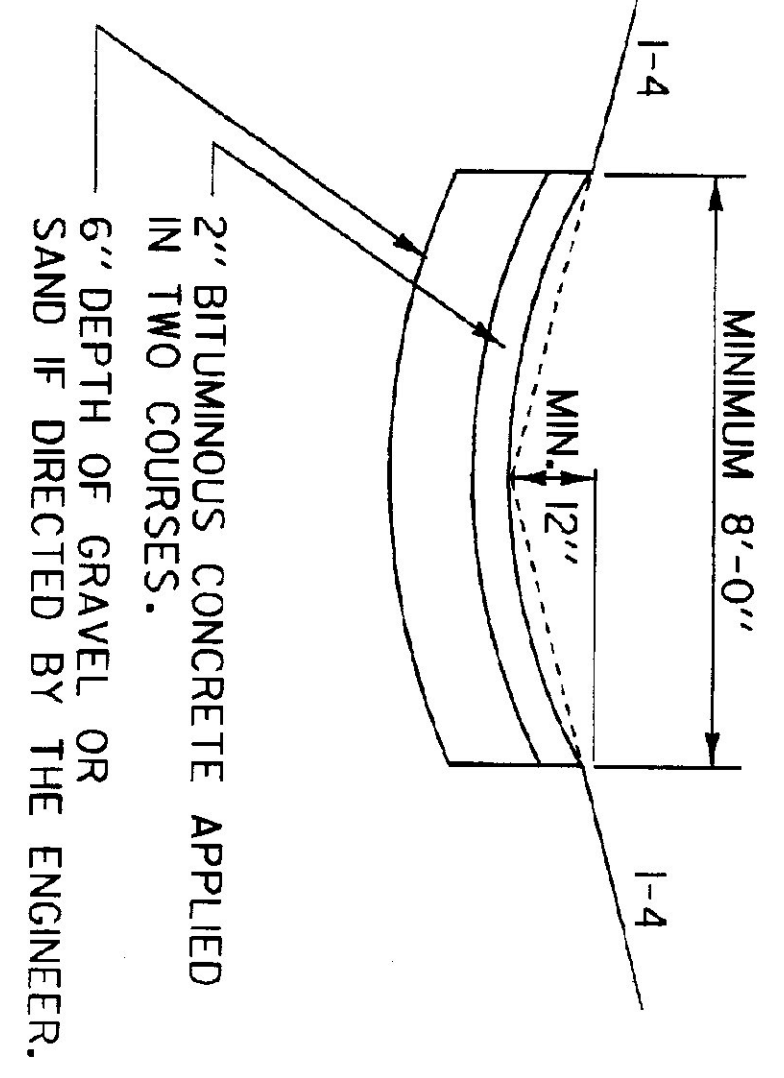
APPROVED
FOR THIS PROJECT
AND/OR DESIGN REPRESENTATION,
FINAL APPROVAL PENDING.

Director of Engineering
Design Engineer

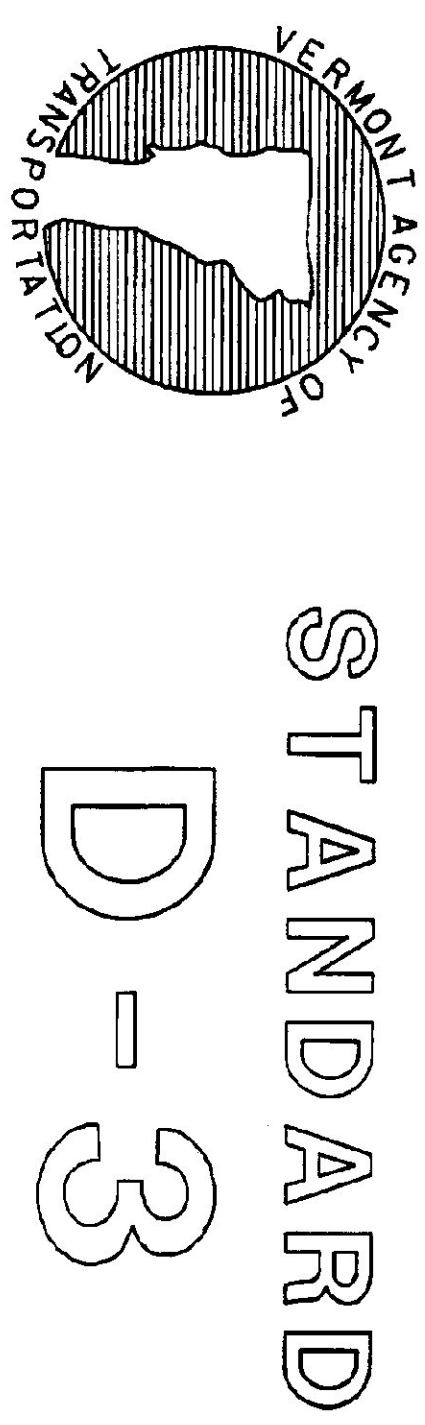
TREATED GUTTERS

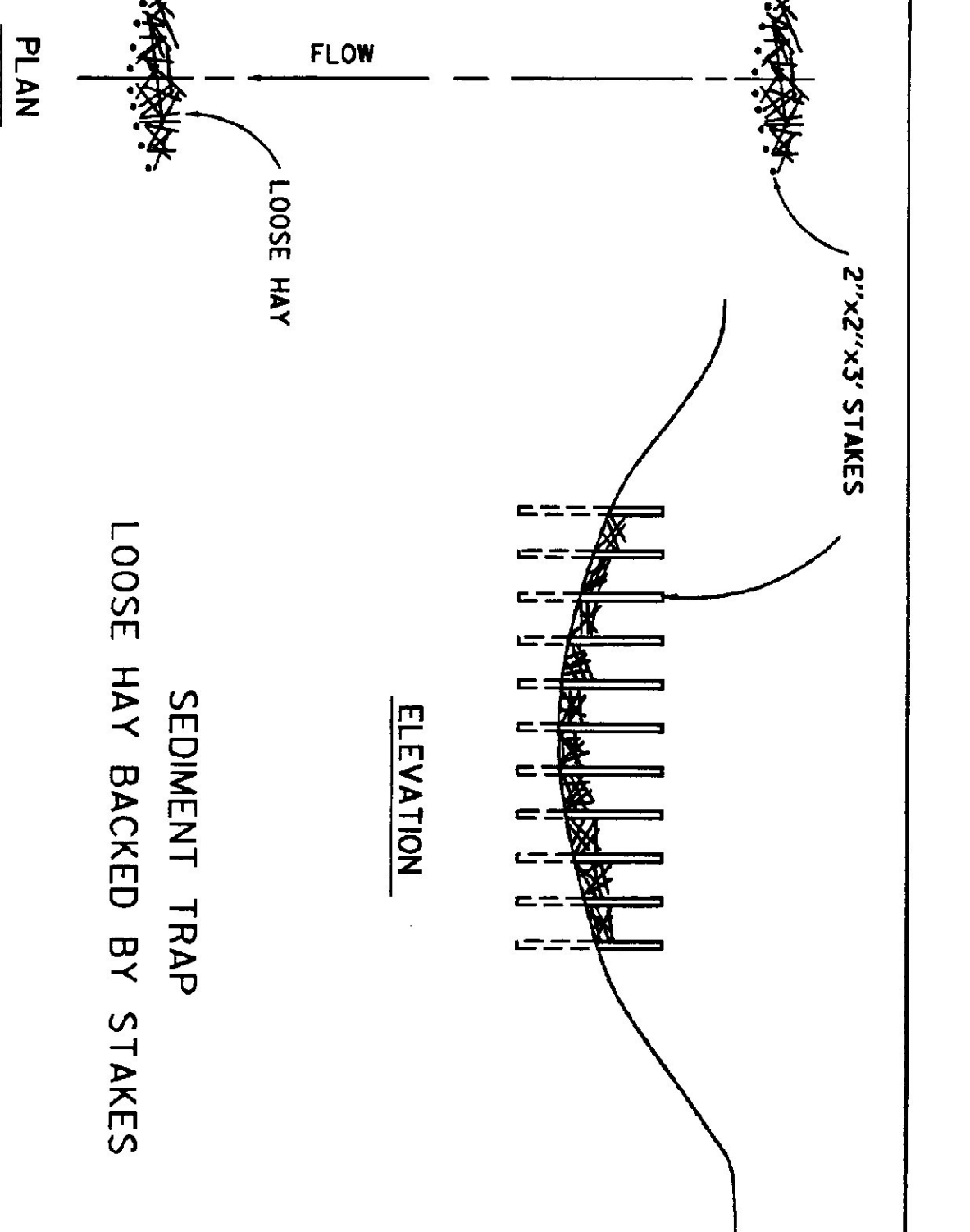
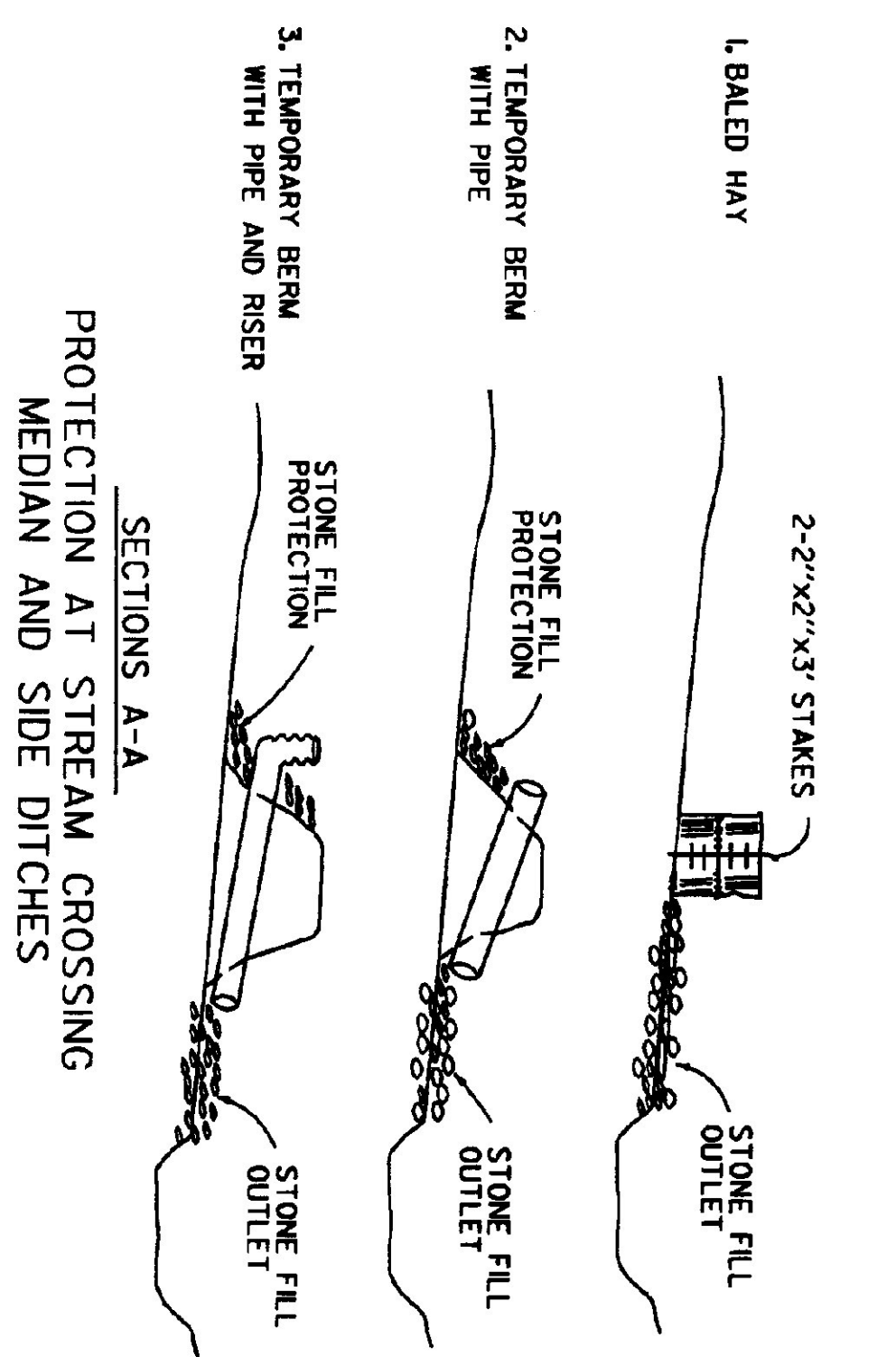
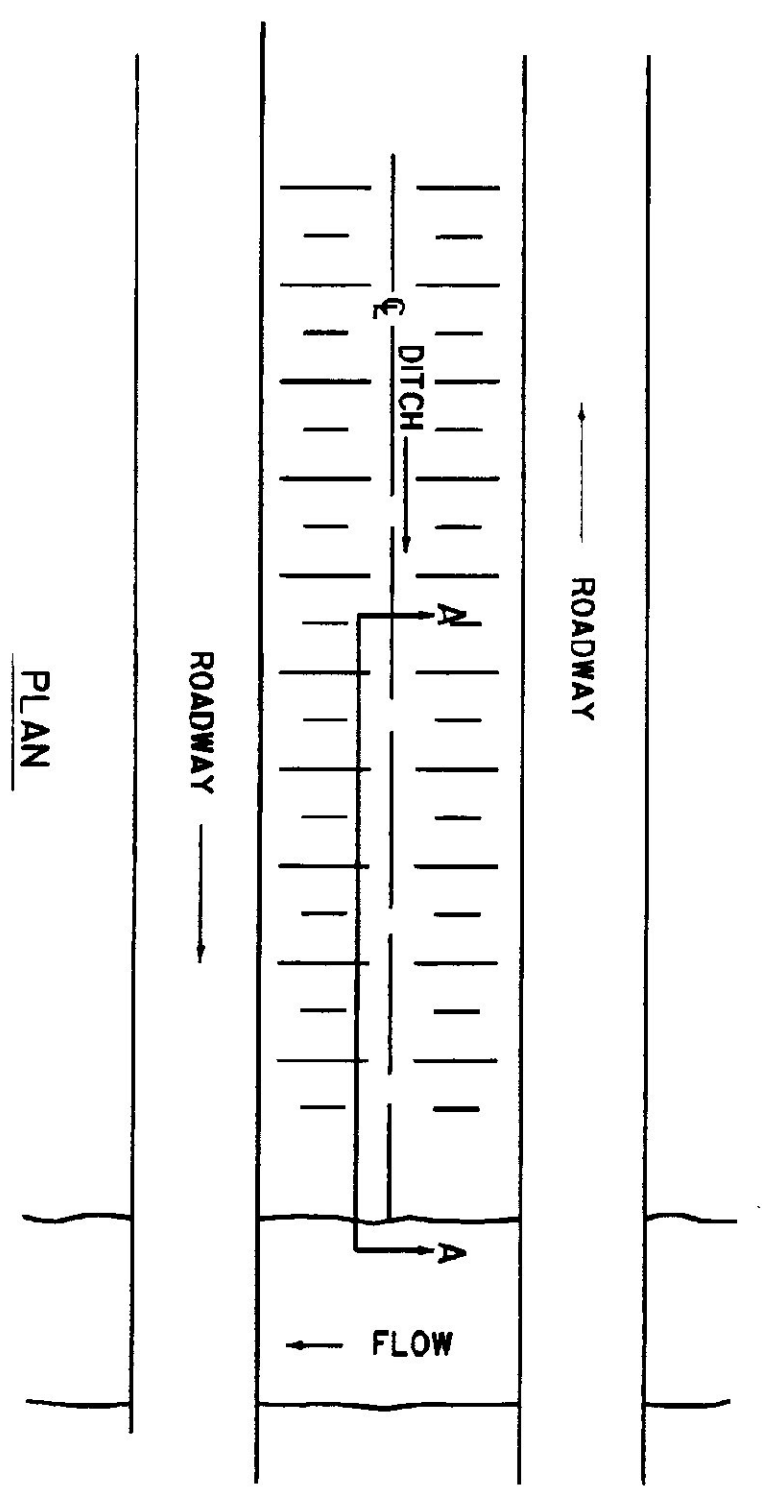


PORTLAND CEMENT CONCRETE GUTTER



**BITUMINOUS CONCRETE GUTTERS
AND TRAFFIC ISLANDS**

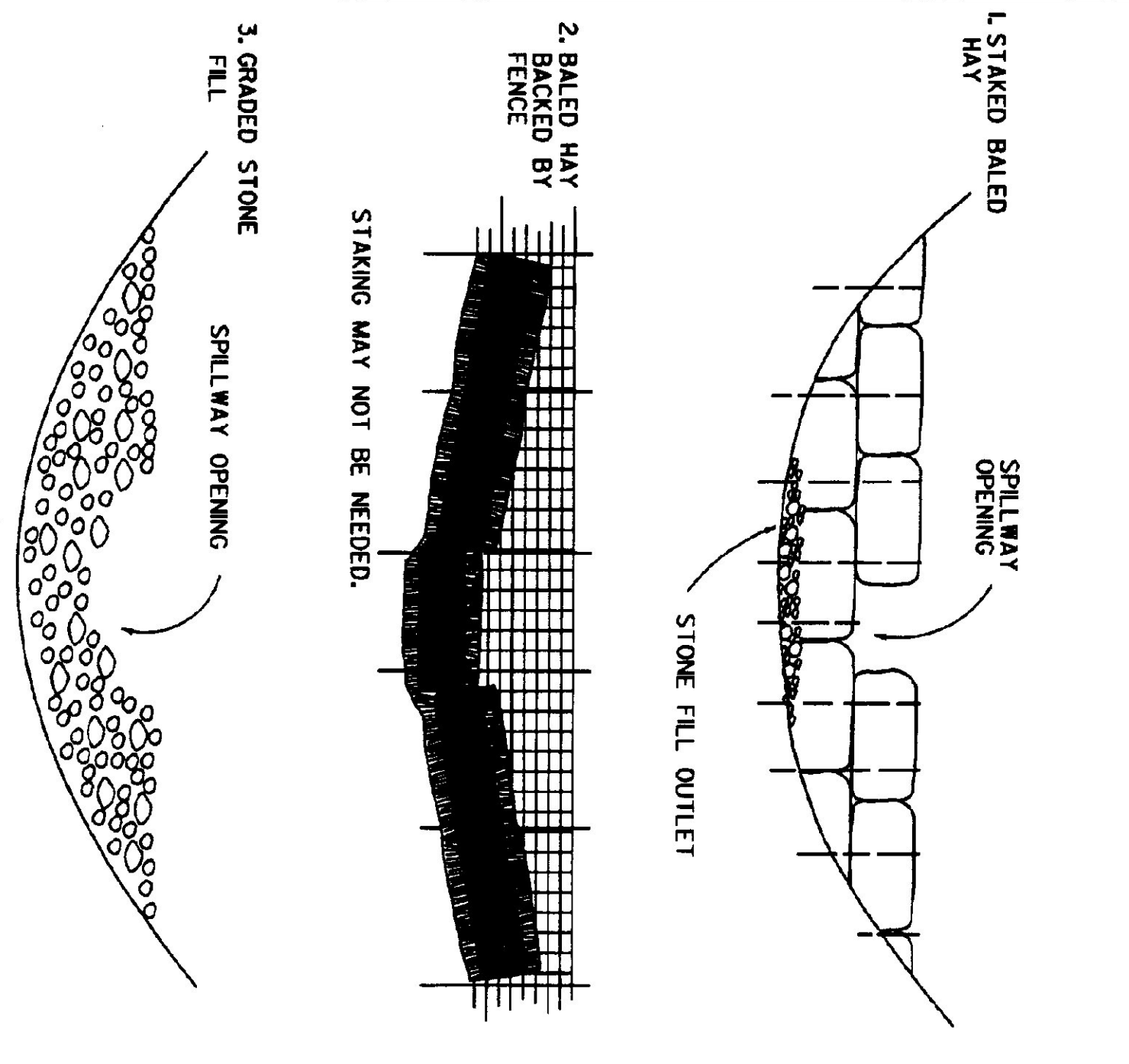




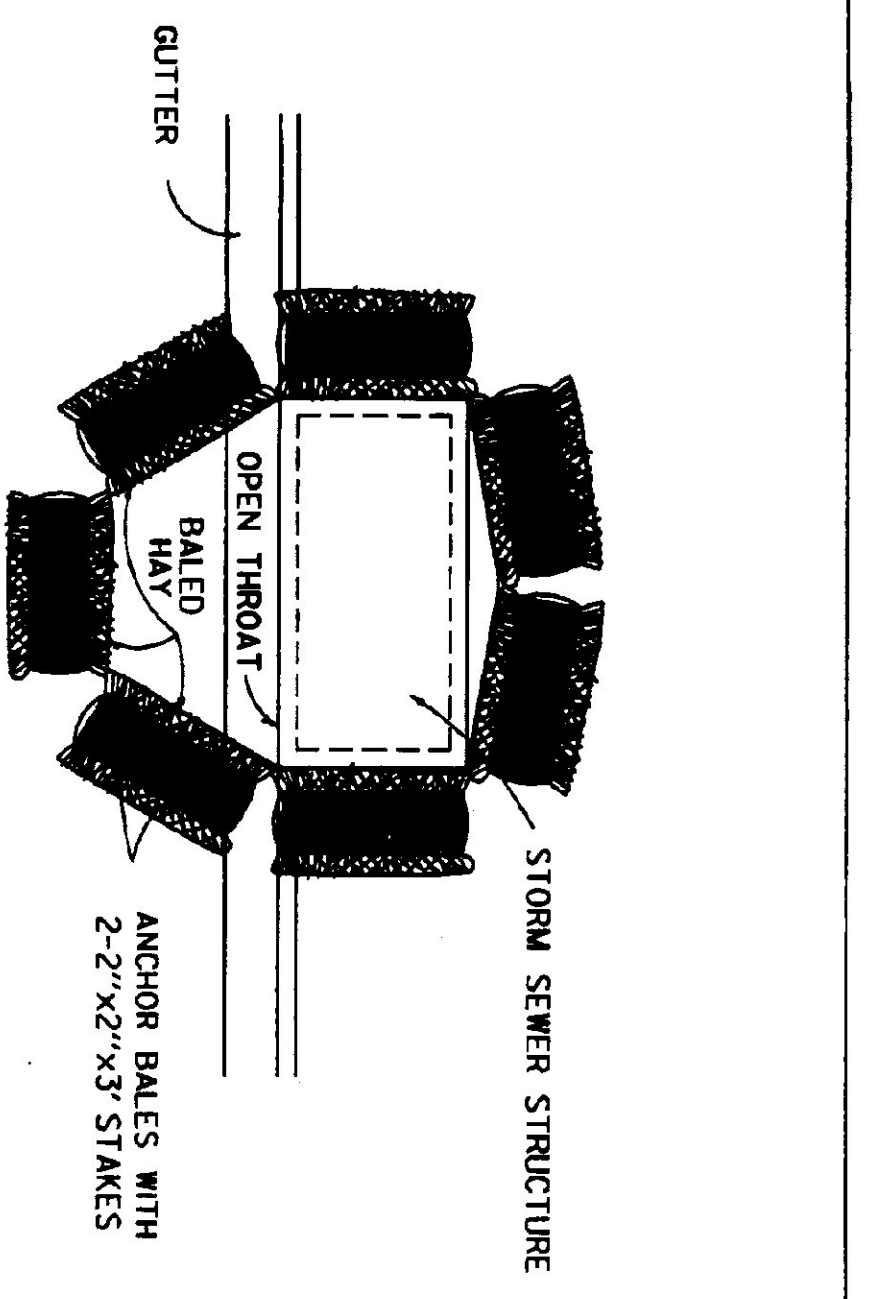
REVISIONS AND CORRECTIONS
 JUL. 5, 1972 - ORIGINAL APPROVAL
 JUNE 1, 1994 - REISSUED, WITHOUT CHANGE,
 UNDER NEW SIGNATURES.

APPROVED
 APPROVED FOR THIS PROJECT
 AND/OR DESIGN IMPLEMENTATION
 FINAL APPROVAL PENNING.

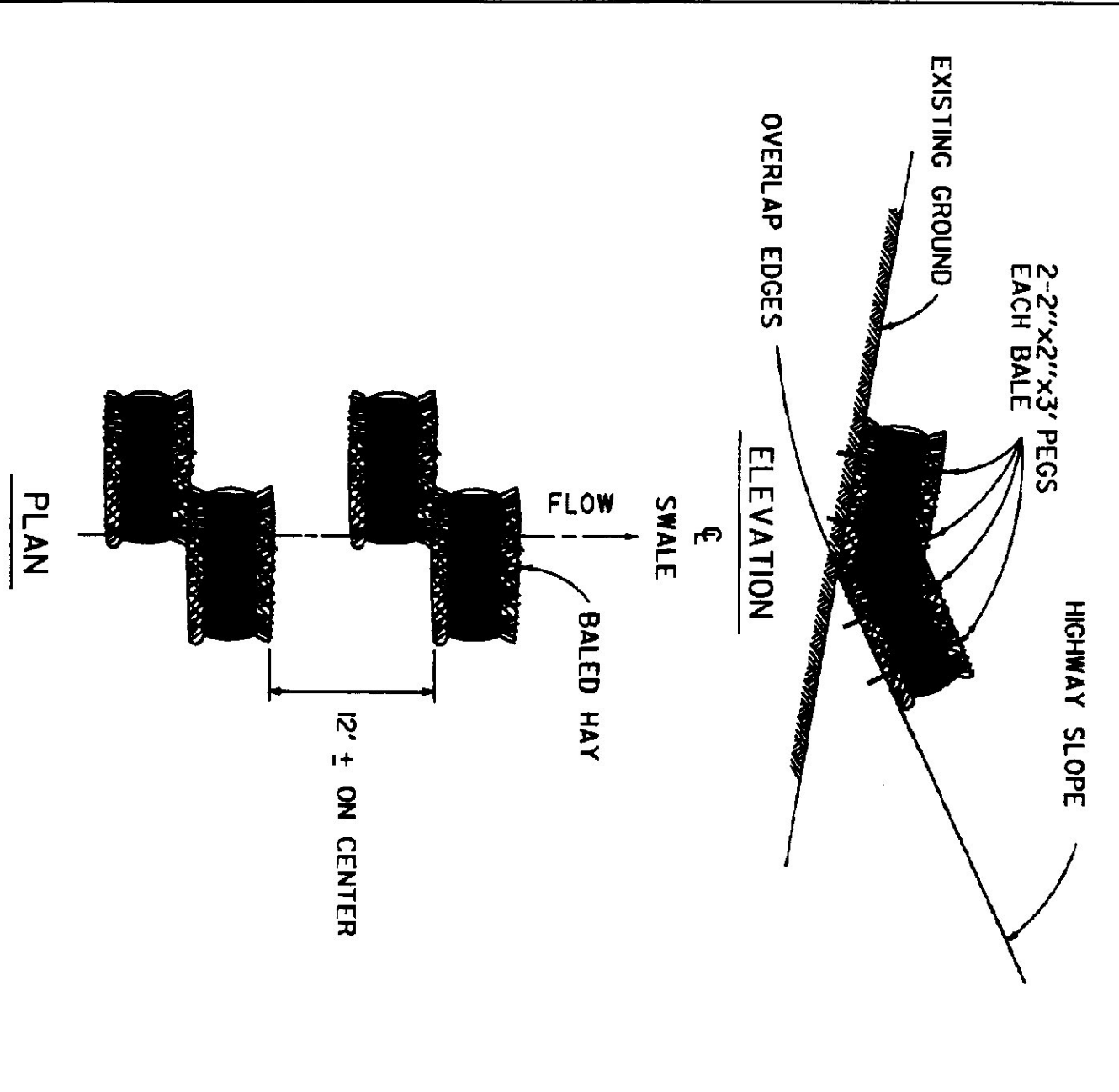
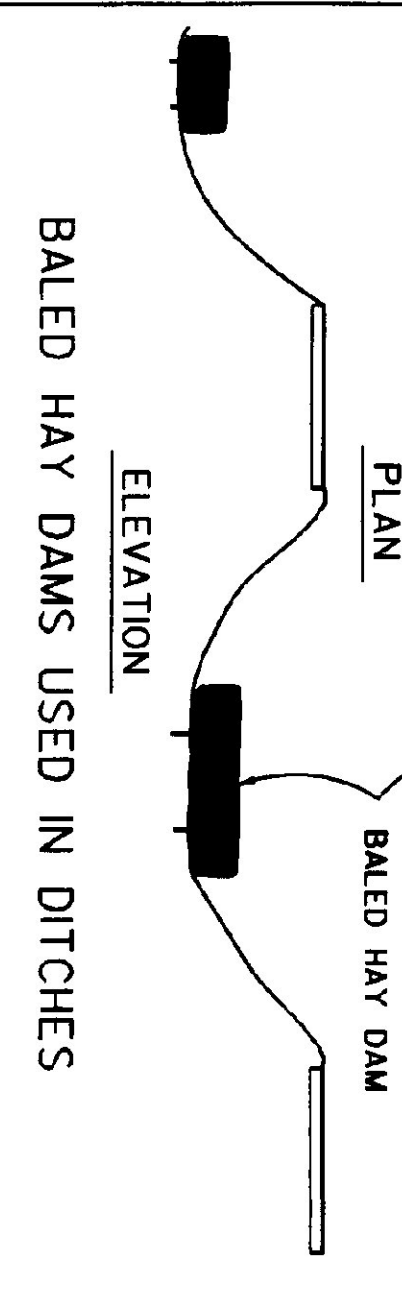
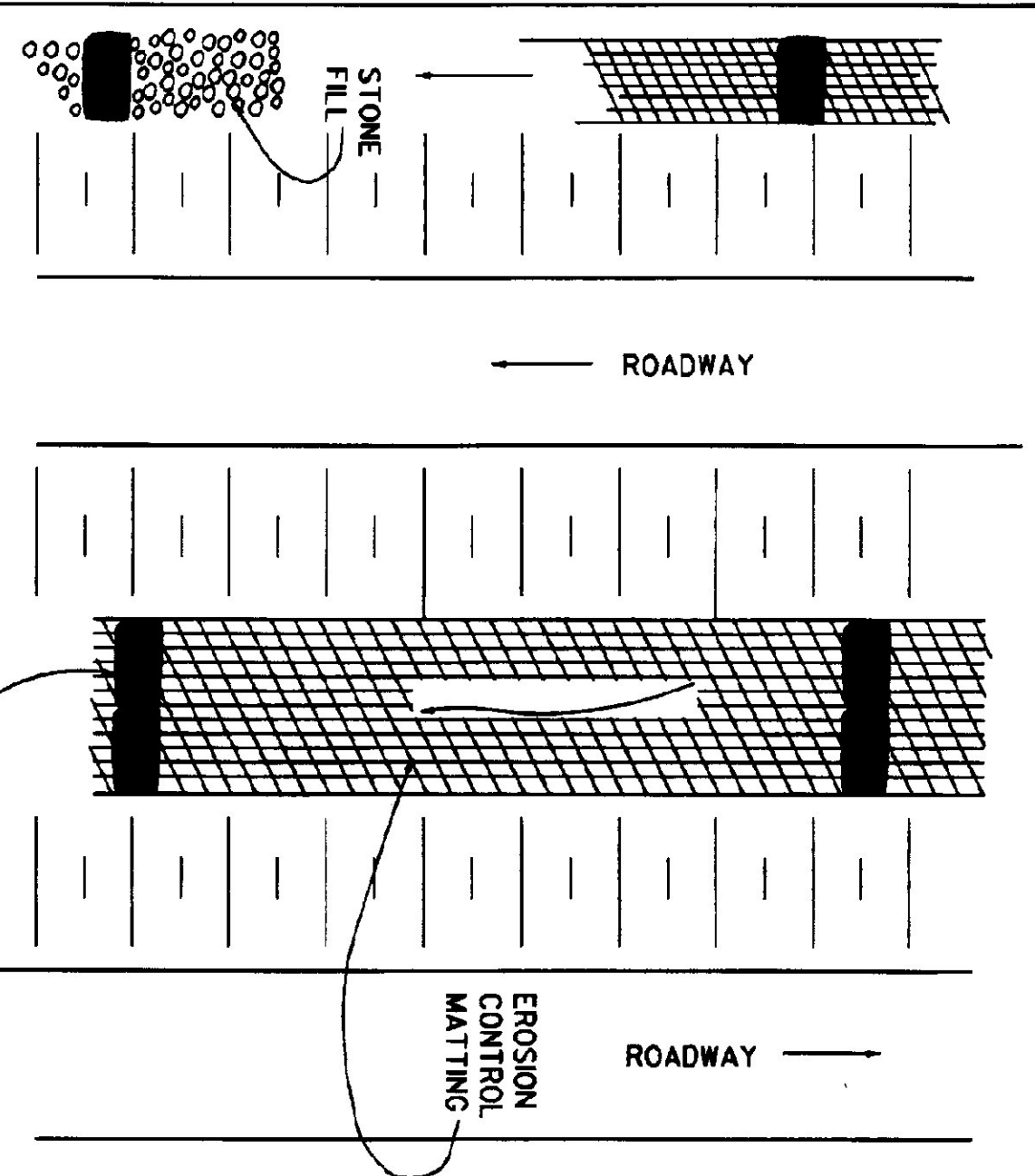
Richard D. Miller
 DIRECTOR OF ENGINEERING
John M. Murphy
 DESIGN ENGINEER



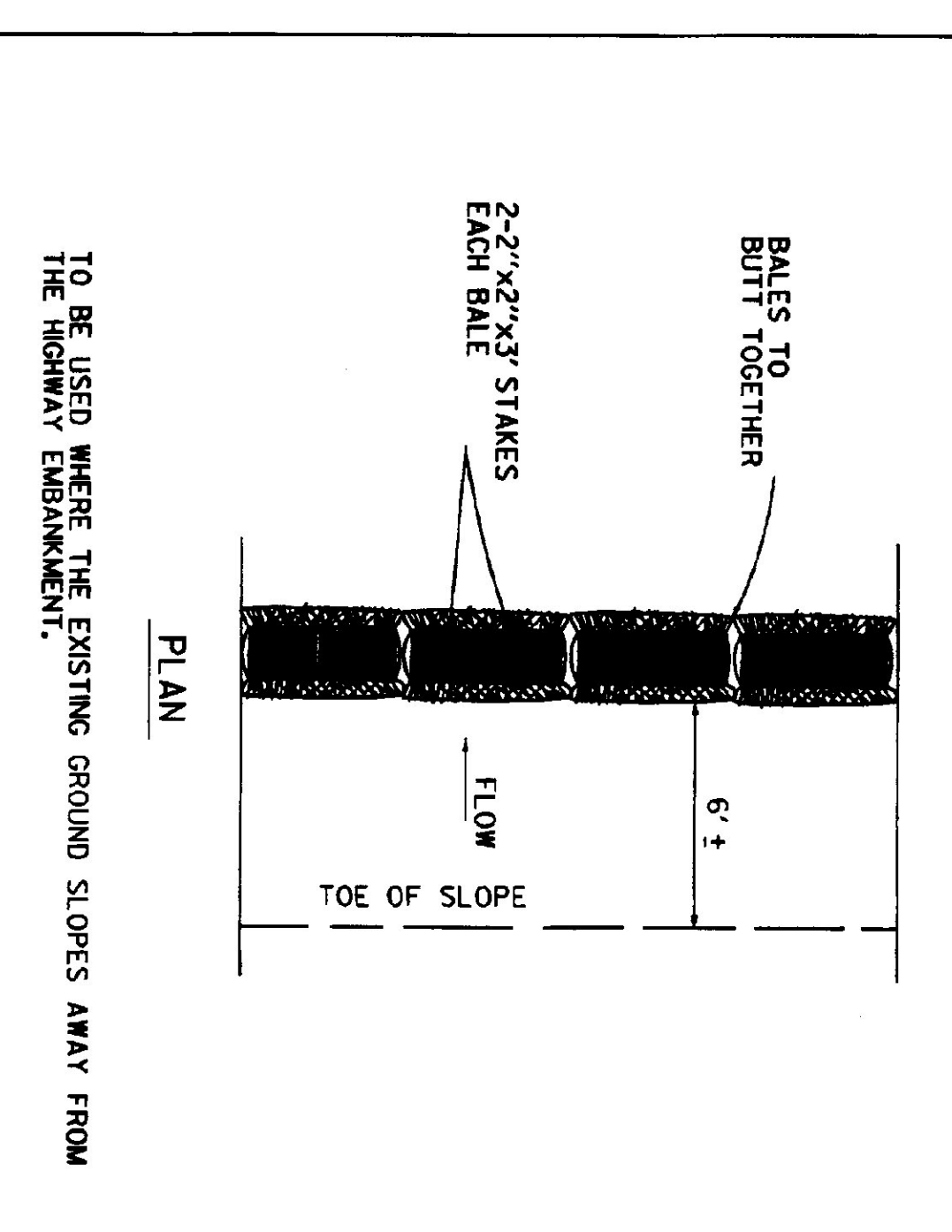
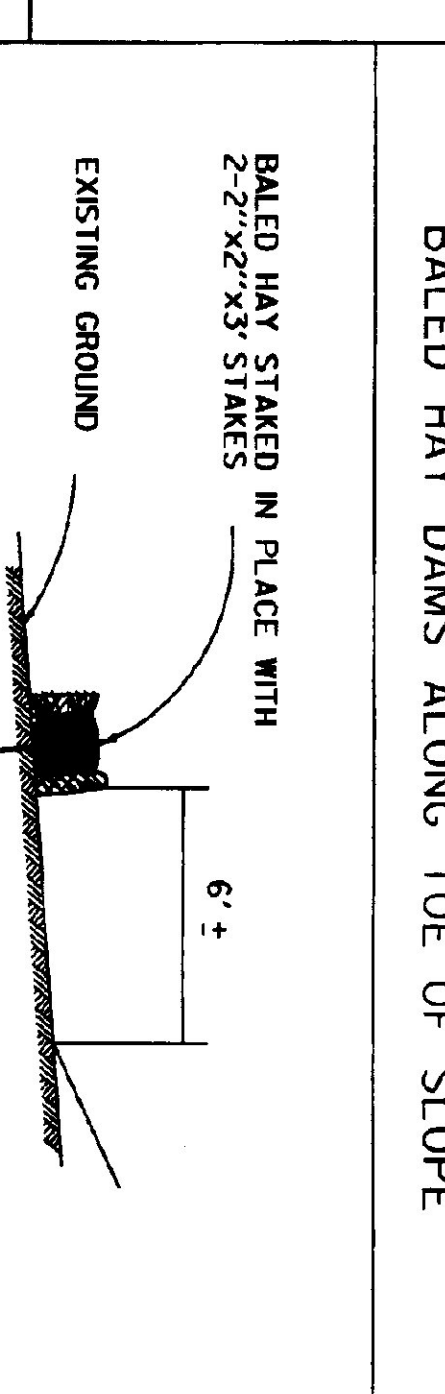
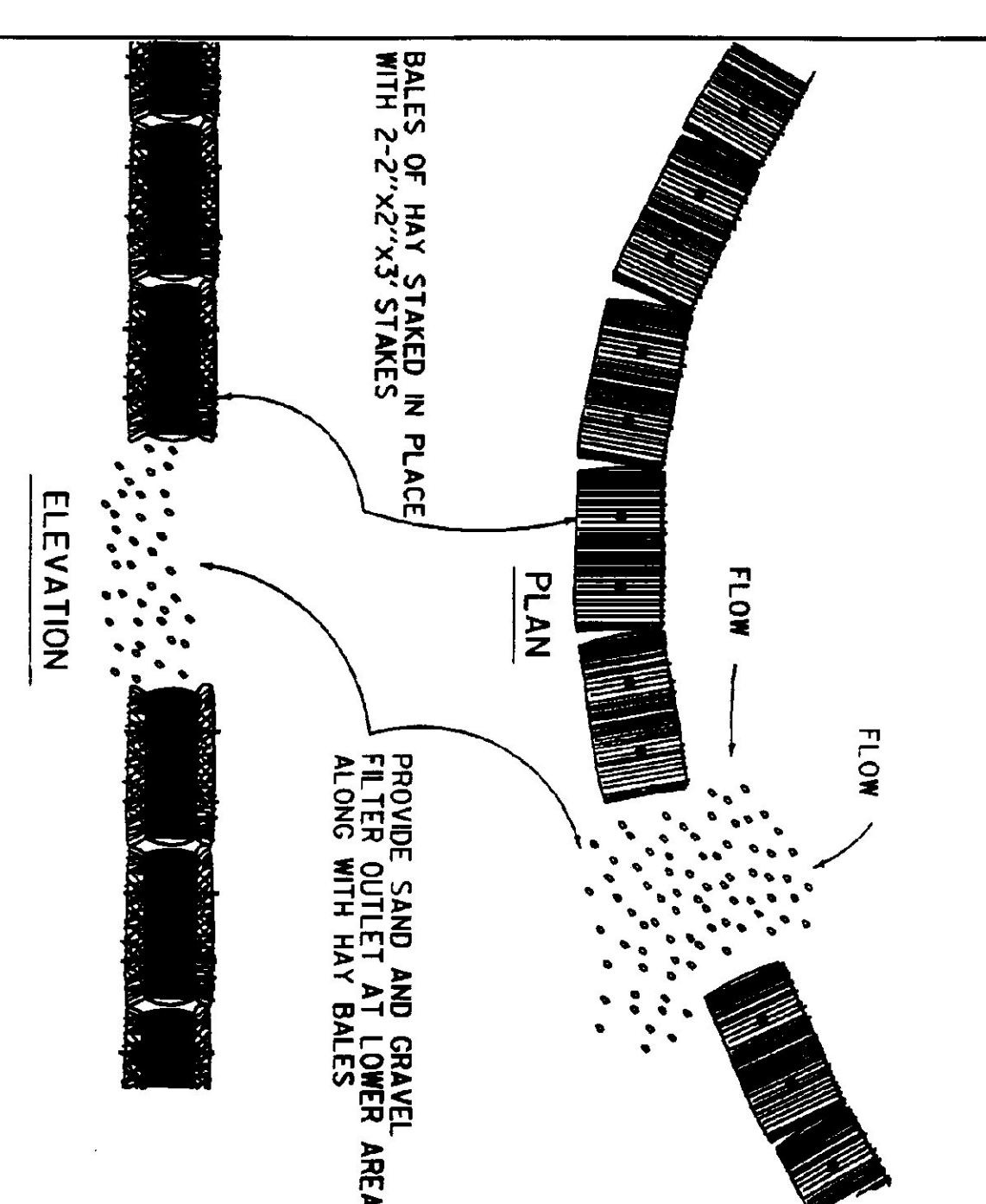
TYPES OF TEMPORARY DAMS
 DAM SHOULD EXTEND FAR ENOUGH UP DITCH SIDE SLOPES TO EFFECTIVELY POND
 THE RUNOFF AND PREVENT EROSION AND WASHOUT.



TEMPORARY BARRIER - HAY BALES

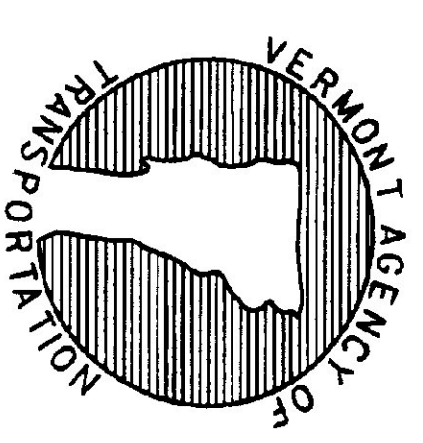


TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES
 IN TOWARD THE EMBANKMENT.
 BALES WILL BE ALLOWED TO ROT IN PLACE.
 BALED HAY EROSION CHECKS



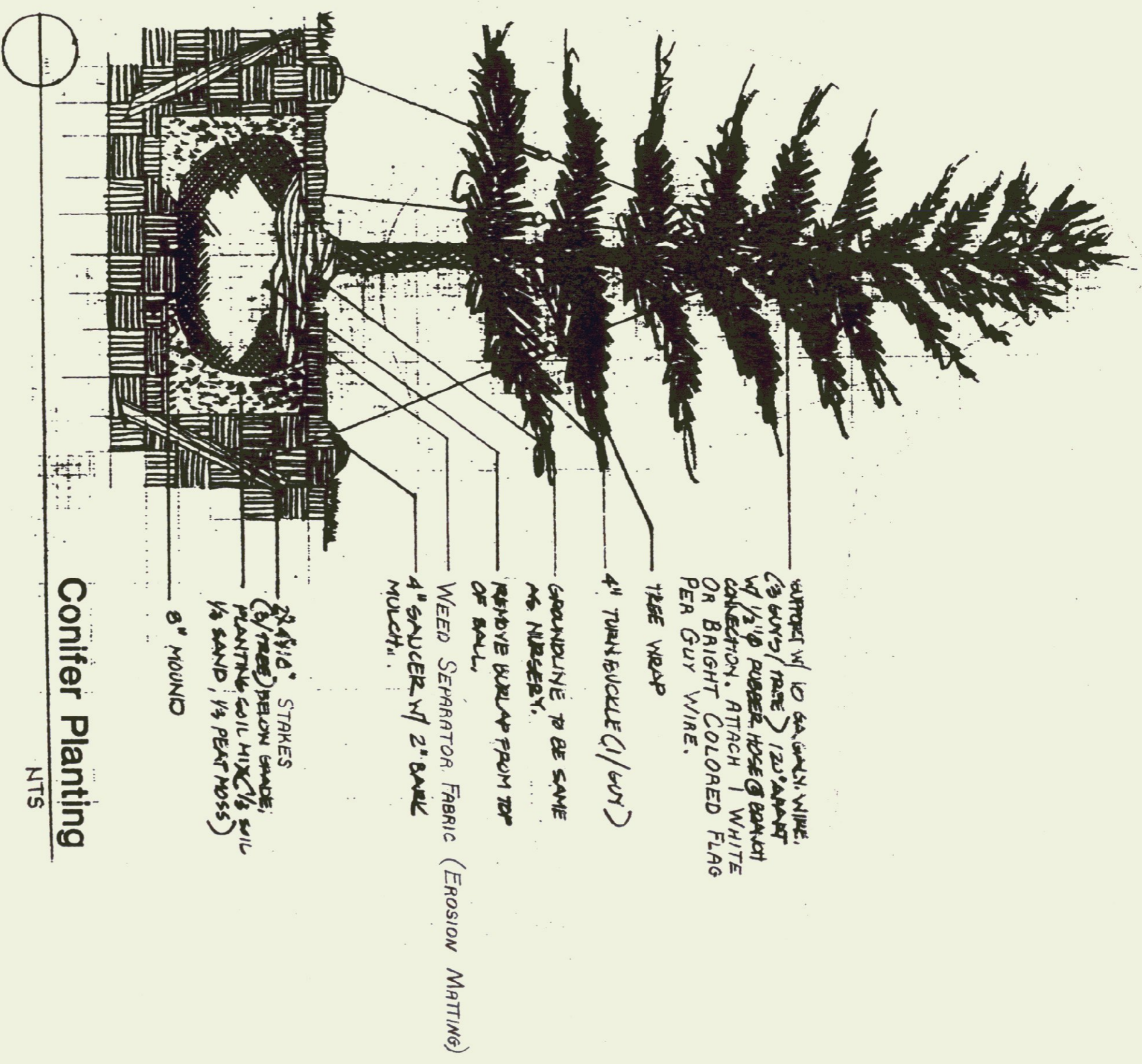
TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM
 THE HIGHWAY EMBANKMENT.
 BALED HAY EROSION CHECKS

TEMPORARY EROSION CONTROL DETAILS



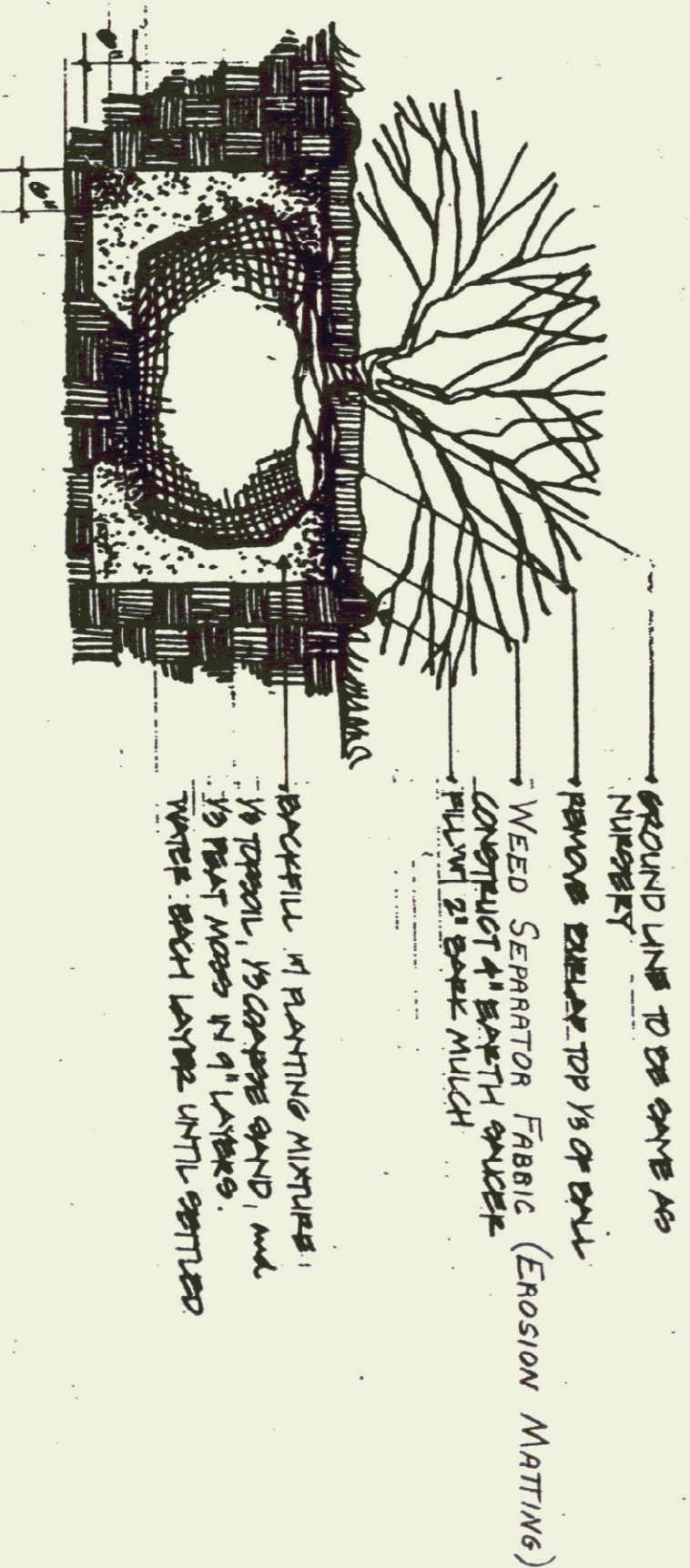
STANDARD T-2

PLANTING DETAILS



Conifer Planting

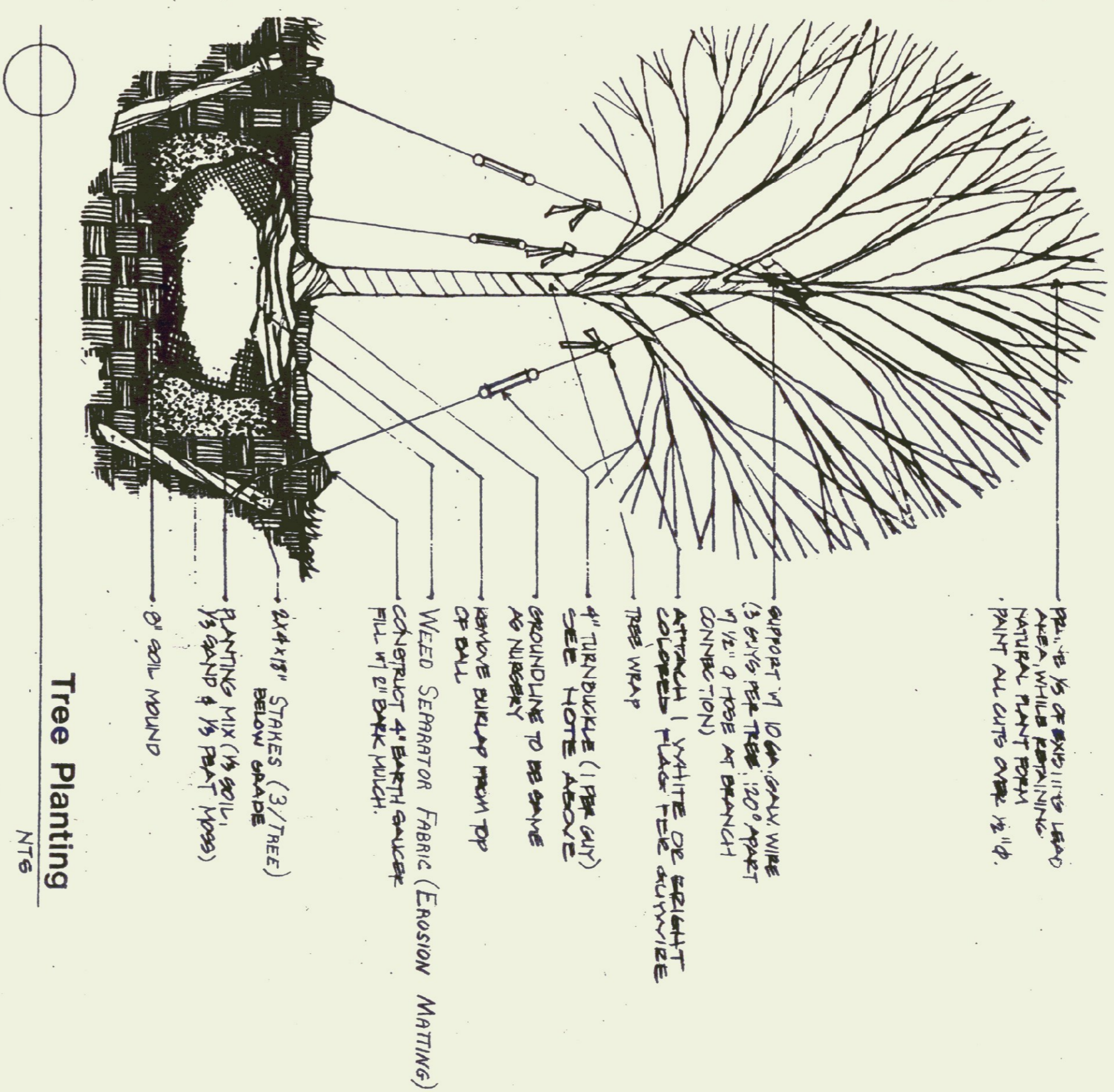
NTS



Shrub Planting

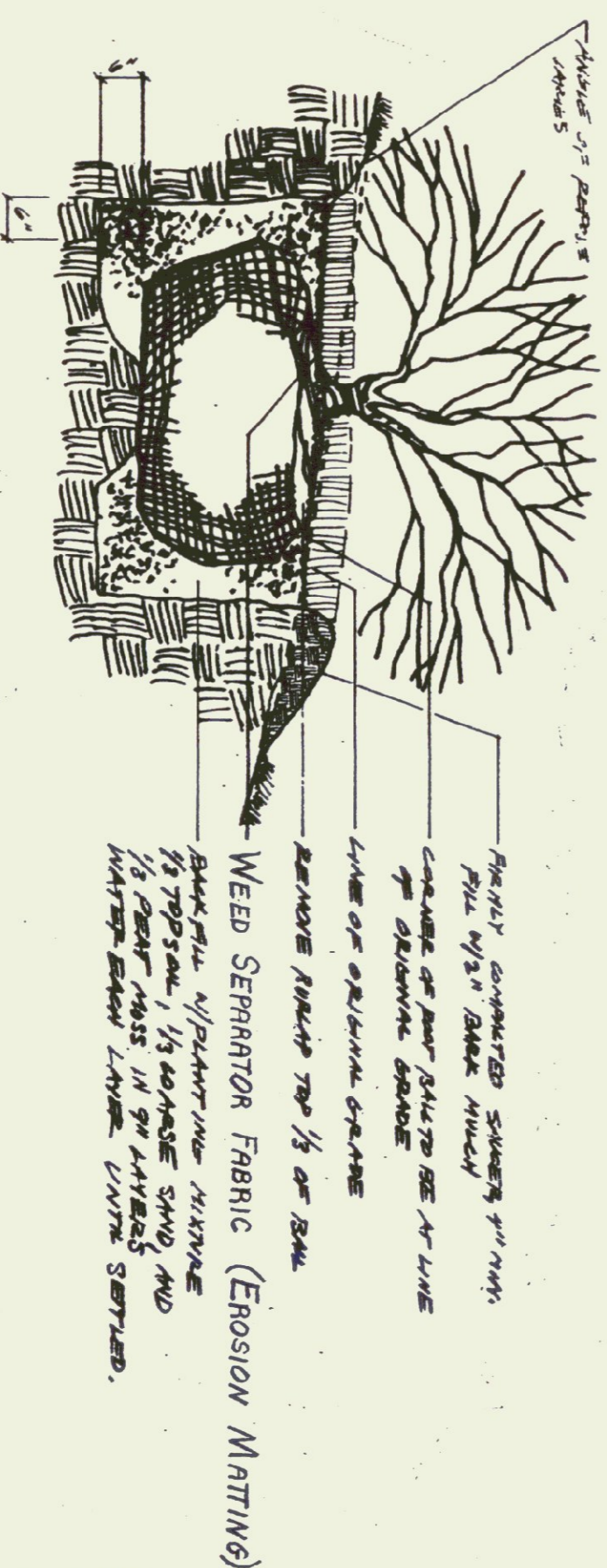
NTS

* NOTE: ALL WORK AND MATERIALS SHOWN ON THIS SHEET FOR PLANTING TO BE INCLUDED IN THE BID PRICE FOR EACH PLANTING ITEM.



Tree Planting

NTS



Shrub Planting On Slope

NTS

* NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FOR ALL PLANTING AND TREE TRIMMING WORK.

DRAWN BY: SQUADC
 SQUAD LEADER: S.MENARD
 DESIGN FILE NO.: /scom/96220/dd220p1
 FILE: dd220p1
 DATE: 24-NOV-1998
 PROJ. NAME: SALT SHEPDS A.O.T.
 PROJ. NO.:
 SHEET 11 OF 11 SHEETS