



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

November 30, 2018

CALL NO. 103
CONTRACT ID NO. 181239
ADDENDUM # 1

Subject: SCOTT COUNTY, STP 4601 (048)
Letting December 7, 2018

- (1) Revised - Cover Page
- (2) Revised - Page 4 of 221
- (3) Added - Special Note for Completion Date - Page 16(a) of 221
- (4) Added - Special Note for Building Removal - Page 16 (b) of 221
- (5) Revised - General Notes - Pages 42-47 of 221
- (6) Revised - Proposal Bid Items - Pages 216-221(a) of 221
- (7) Revised - Plan Sheets - R135, R2F, and R21
- (8) Added - Plan Sheets - R59F and R2F1

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mr
Enclosures



An Equal Opportunity Employer M/F/D



CALL NO. 103

CONTRACT ID. 181239

SCOTT COUNTY

FED/STATE PROJECT NUMBER STP 4601 (048)

DESCRIPTION GEORGETOWN NORTHWEST BYPASS (US 460)

WORK TYPE GRADE & DRAIN AND PAVEMENT ALTERNATES

PRIMARY COMPLETION DATE 5/28/2021

LETTING DATE: December 07,2018

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN STANDARD TIME December 07,2018. Bids will be publicly announced at 10:00 AM EASTERN STANDARD TIME.

PLANS AVAILABLE FOR THIS PROJECT.

DBE CERTIFICATION REQUIRED - 7%

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

ADMINISTRATIVE DISTRICT - 07

CONTRACT ID - 181239

STP 4601 (048)

COUNTY - SCOTT

PCN - DE10504601839

STP 4601 (048)

GEORGETOWN NORTHWEST BYPASS (US 460) GEORGETOWN NORTHWEST BYPASS: IMPROVE CONNECTIVITY & MOBILITY AROUND GEORGETOWN FROM KY 32 TO I-75, A DISTANCE OF 05.05 MILES.GRADE & DRAIN AND PAVEMENT ALTERNATES SYP NO. 07-00102.50.

GEOGRAPHIC COORDINATES LATITUDE 38:16:25.00 LONGITUDE 84:35:38.00

COMPLETION DATE(S):

COMPLETED BY 11/27/2020

COMPLETED BY 05/28/2021

APPLIES TO ROAD OPEN TO
TRAFFIC

APPLIES TO ENTIRE CONTRACT

7-102.50
GEORGETOWN NW BYPASS
SPECIAL NOTE
FOR
COMPLETION DATE

Project Fixed Completion Date

This project shall have a fixed completion date of **May 28, 2021** for the completion of all work associated with this project. There will be a milestone completion date of **November 27, 2020** for opening to traffic. Liquidated damages for not meeting the milestone date or fixed completion date shall be assessed according to Section 108 of the 2012 Kentucky Standard Specifications for Road and Bridge Construction. Contrary to Section 108 of the 2012 Kentucky Standard Specifications for Road and Bridge Construction, contract extensions associated with this project may only be adjusted at the discretion of the Engineer.

SPECIAL NOTE

For Building Removal Scott County Georgetown Northwest Bypass Item No. 07-102.5

The Contractor shall remove the following list of improvements including the inspection of and any asbestos that may be present. This work will be incidental to the bid item of Clearing and Grubbing.

- 1 Story brick residence, left approximate Mainline Station 315+00 (Parcel 11)
- 1 wood barn approximately 33.33 feet left of Mainline Station 317+50 (Parcel 11)
- 1 wood barn approximately 67 feet right of Mainline Station 318+00 (Parcel 11)

GENERAL UTILITY NOTES AND INSTRUCTIONS APPLICABLE TO ALL UTILITY WORK MADE A PART OF THE ROAD CONSTRUCTION CONTRACT

The contractor should be aware the following utility notes and KYTC Utility Bid Item Descriptions shall supersede, replace and take precedence over any and all conflicting information that may be contained in utility owner supplied specifications contained in the contract, on plans supplied by the utility owner, or any utility owner specifications or information externally referenced in this contract.

Where information may have been omitted from these notes, bid item descriptions, utility owner supplied specifications or plans; the KYTC Standard Specifications for Road and Bridge Construction shall be referenced.

PROTECTION OF EXISTING UTILITIES

The existing utilities shown on the plans are shown as best known at the time the plans were developed and are to be used as a guide only by the Contractor. The Contractor shall use all means at his disposal to accurately locate all existing utilities, whether shown on the plans or not, prior to excavation. The contractor shall protect these utilities during construction. Any damage to existing utilities during construction that are shown or not shown on the plans shall be repaired at the Contractor's expense.

PREQUALIFIED UTILITY CONTRACTORS

Some utility owners may require contractors that perform relocation work on their respective facilities as a part of the road contract be prequalified or preapproved by the utility owner. Those utility owners with a prequalification or preapproval requirement are as follows:

Kentucky American Water Company (KAWC) requires prequalified or preapproved contractors to perform work on the water main relocation under this contract. A listing of prequalified subcontractors is provided at the end of this note.

Georgetown Municipal Water requires prequalified or preapproved contractors to perform work on the water main relocation under this contract. A listing of prequalified subcontractors is provided at the end of this note.

The bidding contractor needs to review the above referenced list and choose from the list of approved subcontractors at the end of these general notes as identified above before bidding. When the list of

approved subcontractors is provided, only subcontractors shown on the following list(s) will be allowed to work on that utility as a part of this contract.

When the list of approved subcontractors for the utility work is not provided in these general notes, the utility work can be completed by the prime contractor. If the prime contractor chooses to subcontract the work, the subcontractor shall be prequalified with the KYTC Division of Construction Procurement in the work type of "Utilities" (I33). Those who would like to become prequalified may contact the Division of Construction Procurement at (502) 564-3500. Please note: it could take up to 30 calendar days for prequalification to be approved. The prequalification does not have to be approved prior to the bid, but must be approved before the subcontract will be approved by KYTC and the work can be performed.

CONTRACT ADMINISTRATION RELATIVE TO UTILITY WORK

All utility work is being performed as a part of a contract administered by KYTC; there is not a direct contract between the utility contractor and utility owner. The KYTC Section Engineer is ultimately responsible for the administration of the road contract and any utility work included in the contract.

SUBMITTALS AND CORRESPONDENCE

All submittals and correspondence of any kind relative to utility work included in the road contract shall be directed to the KYTC Section Engineer, a copy of which may also be supplied to the utility owner by the contractor to expedite handling of items like material approvals and shop drawings. All approvals and correspondence generated by the utility owner shall be directed to the KYTC Section Engineer. The KYTC Section Engineer will relay any approvals or correspondence to the utility contractor as appropriate. At no time shall any direct communication between the utility owner and utility contractor without the communication flowing through the KYTC Section Engineer be considered official and binding under the contract.

ENGINEER

Where the word "Engineer" appears in any utility owner specifications included in this proposal, utility owner specifications included as a part of this contract by reference or on the utility relocation plans, it shall be understood the "Engineer" is the Kentucky Transportation Cabinet (KYTC) Section Engineer or designated representative and the utility owner engineer or designated representative jointly. Both engineers must mutually agree upon all decisions made with regard to the utility construction. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

INSPECTOR OR RESIDENT PROJECT REPRESENTATIVE

Where the word "Inspector" or "Resident Project Representative" appears in the utility specifications included in this proposal, utility owner specifications included as a part of this contract by reference or on the utility relocation plans, it shall be understood the "Inspector" or "Resident Project Representative" is the utility owner inspector and KYTC inspector jointly. The Transportation Cabinet, Section Engineer shall make all final decisions in all disputes.

NOTICE TO UTILITY OWNERS OF THE START OF WORK

One month before construction is to start on a utility, the utility contractor shall make notice to the KYTC Section Engineer and the utility owner of when work on a utility is anticipated to start. The utility contractor shall again make confirmation notice to the KYTC Section Engineer and the utility owner one week before utility work is to actually start.

UTILITY SHUTDOWNS

The Contractor shall not shut down any active and in-service mains, utility lines or services for any reason unless specifically given permission to do so by the utility owner. The opening and closing of valves and operating of other active utility facilities for main, utility line or utility service shut downs are to be performed by the utility owner unless specific permission is given to the contractor by the owner to make shutdowns. If and when the utility owner gives the contractor permission to shutdown mains, utility lines or utility services, the contractor shall do so following the rules, procedures and regulations of the utility owner. Any permission given by the utility owner to the contractor to shutdown active and in-service mains, utility lines or services shall be communicated to the KYTC Section Engineer by the utility owner that such permission has been given.

Notice to customers of utility shut downs is sometimes required to be performed by the utility contractor. The contractor may be required; but, is not limited to, making notice to utility customers in a certain minimum amount of time in advance of the shut down and by whatever means of communication specified by the utility owner. The means of communication to the customer may be; but is not limited to, a door hanger, notice by newspaper ad, telephone contact, or any combination of communication methods deemed necessary, customary and appropriate by the utility owner. The contractor should refer to the utility owner specifications for requirements on customer notice.

Any procedure the utility owner may require the contractor to perform by specification or plan note and any expense the contractor may incur to comply with the utility owner's shut down procedure and notice to customers shall be considered an incidental expense to the utility construction.

CUSTOMER SERVICE AND LATERAL ABANDONMENTS When temporary or permanent abandonment of customer water, gas, or sewer services or laterals are necessary during relocation of utilities included in the contract, the utility contractor shall perform these abandonments as part of the contract as incidental work. No separate payment will be made for service line and lateral abandonments. The contractor shall provide all labor, equipment and materials to accomplish the temporary or permanent abandonment in accordance with the plans, specifications and/or as directed by the engineer. Abandonment may include, but is not limited to, digging down on a water or gas main at the tap to turn off the tap valve or corporation stop and/or capping or plugging the tap, digging down on a sewer tap at the main and plugging or capping the tap, digging down on a service line or lateral at a location shown on the plans or agreeable to the engineer and capping or plugging, or performing any other work necessary to abandon the service or lateral to satisfactorily accomplish the final utility relocation.

STATIONS AND DISTANCES

All stations and distances, when indicated for utility placement in utility relocation plans or specifications, are approximate; therefore, some minor adjustment may have to be made during construction to fit actual field conditions. Any changes in excess of 6 inches of plan location shall be reviewed and approved jointly by the KYTC Section Engineer or designated representative and utility owner engineer or designated representative. Changes in location without prior approval shall be remedied by the contractor at his own expense if the unauthorized change creates an unacceptable conflict or condition.

RESTORATION

Temporary and permanent restoration of paved or stone areas due to utility construction shall be considered incidental to the utility work. No separate payment will be made for this work. Temporary restoration shall be as directed by the KYTC Section Engineer. Permanent restoration shall be “in-kind” as existing.

Restoration of seed and sod areas will be measured and paid under the appropriate seeding and sodding bid items established in the contract for roadway work.

BELOW ARE NOTES FOR WHEN “INST” ITEMS ARE IN THE CONTRACT MEANING THE UTILITY COMPANY IS PROVIDING CERTAIN MATERIALS FOR UTILITY RELOCATION

MATERIAL

Contrary to Utility Bid Item Descriptions, those bid items that have the text “**Inst**” at the end of the bid item will have the major components of the bid item provided by the utility owner. No direct payment will be made for the major material component(s) supplied by the utility company. All remaining materials required to construct the bid item as detailed in utility bid item descriptions, in utility specifications and utility plans that are made a part of this contract will be supplied by the contractor. The contractor’s bid price should reflect the difference in cost due to the provided materials.

The following utility owners have elected to provide the following materials for work under this contract:

Kentucky American Water Company will be providing the following materials to the contractor for this contract:

Item	Description	Unit	Project Total
14007	W Encasement Steel Bored Range 2	LF	90
14009	W Encasement Steel Bored Range 4	LF	430
14014	W Encasement Steel Open Cut Range 3	LF	180
14015	W Encasement Steel Open Cut Range 4	LF	740
14021	W Fire Hydrant Remove	EACH	1
14076	W Remove Transite (AC) Pipe	LF	2720

Item	Description	Unit	Project Total
14500	W Air Release Valve 1 in inst. (Contractor to provide manhole and access casting)	EACH	1
14503	W Cap Existing Main Inst	EACH	5
14510	W Fire Hydrant Assembly Inst	EACH	2
14511	W Flush Hydrant Assembly Inst	EACH	1
14522	W Pipe Ductile Iron 4" Inst	LF	225
14523	W Pipe Ductile Iron 6" Inst	LF	825
14524	W Pipe Ductile Iron 8" Inst	LF	4390
14573	W Tapping Sleeve and Valve Size 1 Inst	EACH	5
14577	W Tie-In 4" Inst	EACH	2
14578	W Tie-In 6" Inst	EACH	4
14588	W Valve 4" (Gate Valve) Inst	EACH	2
14589	W Valve 6" (Gate Valve) Inst	EACH	2
14590	W Valve 8" (Gate Valve) Inst	EACH	2
	W Valve 4" (Line Stop)	EACH	2
	W Valve 6" (Line Stop)	EACH	2
	W Valve 8" (Line Stop)	EACH	2

No materials are being supplied by Georgetown Municipal Water.

SECURITY OF SUPPLIED MATERIALS

If any utility materials are to be supplied by the utility owner, it will be the responsibility of the utility contractor to secure all utility owner supplied materials after delivery to the project site. The utility contractor shall coordinate directly with the utility owner and their suppliers for delivery and security of the supplied materials. Any materials supplied by the utility owner and delivered to the construction site that are subsequently stolen, damaged or vandalized and deemed unusable shall be replaced with like materials at the contractor's expense.

LISTING OF PREQUALIFIED CONTRACTORS:

Kentucky American Water

The following are sub-contractors are qualified and approved by Kentucky American Water to perform the water main relocation work for this contract:

1. CJ Hughes Construction Company, Inc.
75 West 3rd Avenue
Huntington, WV 25701
2. Dix and Associates Pipeline Contractors, Inc.
210 Industry Road
Nicholasville, KY 40356
3. Todd Johnson Contracting, Inc.
497 Dillehay Street
Danville, KY 40422

Georgetown Municipal Water

The following are sub-contractors are qualified and approved by Georgetown Municipal Water to perform the water main relocation work for this contract:

1. ABR Construction
Attn: Alex Mattingly
121 Crestview Ct.
Nicholasville, KY 40356
859-254-2866
2. Clay Pipeline, Inc
Attn: Kay Garrison
70 Fox Hollow Road
Manchester, KY 40962
606-598-6293
3. Dearinger Excavating
Attn: Rick Dearinger
235 Maddox Street
Georgetown, KY. 40324
859-382-1706
4. ADE Contracting
Attn: Damon English
1044 Duncan Road
Lawrenceburg, KY 40342
859-449-2199

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 11-30-18

181239

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Report Date 11/30/18

Section: 0001 - PAVING - ALTERNATE #1 - ASPHALT

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	54,028.00	TON		\$	
0020	00013		LIME STABILIZED ROADBED	134,006.00	SQYD		\$	
0030	00014		LIME	3,618.00	TON		\$	
0040	00020		TRAFFIC BOUND BASE	1,000.00	TON		\$	
0050	00078		CRUSHED AGGREGATE SIZE NO 2	8,307.00	TON		\$	
0060	00100		ASPHALT SEAL AGGREGATE	40.00	TON		\$	
0070	00103		ASPHALT SEAL COAT	5.00	TON		\$	
0080	00190		LEVELING & WEDGING PG64-22	1,923.00	TON		\$	
0090	00212		CL2 ASPH BASE 1.00D PG64-22	10,912.00	TON		\$	
0100	00214		CL3 ASPH BASE 1.00D PG64-22	42,152.00	TON		\$	
0110	00301		CL2 ASPH SURF 0.38D PG64-22	3,443.00	TON		\$	
0120	00339		CL3 ASPH SURF 0.38D PG64-22	6,806.00	TON		\$	
0130	00356		ASPHALT MATERIAL FOR TACK	103.00	TON		\$	
0140	00358		ASPHALT CURING SEAL	268.00	TON		\$	
0150	02101		CEM CONC ENT PAVEMENT-8 IN	1,818.00	SQYD		\$	
0160	02200		ROADWAY EXCAVATION	393,717.00	CUYD		\$	
0170	02599		FABRIC-GEOTEXTILE TYPE IV	24,928.00	SQYD		\$	
0180	02702		SAND FOR BLOTTER	335.00	TON		\$	
0190	10203ND		PAVEMENT ADJUSTMENT	1.00	LS	\$551,834.0	\$	\$551,834.00
0200	24779EC		INTELLIGENT COMPACTION FOR SOIL	340,512.00	CUYD		\$	
0210	24780EC		INTELLIGENT COMPACTION FOR AGGREGATE	54,028.00	TON		\$	
0220	24781EC		INTELLIGENT COMPACTION FOR ASPHALT	63,313.00	TON		\$	
0230	24891EC		PAVE MOUNT INFRARED TEMP EQUIPMENT	16,564.00	SF		\$	

Section: 0002 - PAVING - ALTERNATE #2 - CONCRETE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0240	00003		CRUSHED STONE BASE	43,464.00	TON		\$	
0250	00013		LIME STABILIZED ROADBED	134,006.00	SQYD		\$	
0260	00014		LIME	3,618.00	TON		\$	
0270	00020		TRAFFIC BOUND BASE	500.00	TON		\$	
0280	00078		CRUSHED AGGREGATE SIZE NO 2	8,307.00	TON		\$	
0290	00100		ASPHALT SEAL AGGREGATE	40.00	TON		\$	
0300	00103		ASPHALT SEAL COAT	5.00	TON		\$	
0310	00190		LEVELING & WEDGING PG64-22	1,923.00	TON		\$	
0320	00212		CL2 ASPH BASE 1.00D PG64-22	2,954.00	TON		\$	
0330	00214		CL3 ASPH BASE 1.00D PG64-22	1,825.00	TON		\$	
0340	00301		CL2 ASPH SURF 0.38D PG64-22	1,102.00	TON		\$	
0350	00339		CL3 ASPH SURF 0.38D PG64-22	1,151.00	TON		\$	
0360	00356		ASPHALT MATERIAL FOR TACK	18.00	TON		\$	
0370	00358		ASPHALT CURING SEAL	268.00	TON		\$	
0380	02073		JPC PAVEMENT-9 IN	82,247.00	SQYD		\$	
0390	02078		JPC PAVEMENT-6 IN SHLD	34,045.00	SQYD		\$	
0400	02101		CEM CONC ENT PAVEMENT-8 IN	1,818.00	SQYD		\$	
0410	02200		ROADWAY EXCAVATION	390,744.00	CUYD		\$	

PROPOSAL BID ITEMS

181239

Report Date 11/30/18

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0420	02599		FABRIC-GEOTEXTILE TYPE IV	24,928.00	SQYD		\$	
0430	02702		SAND FOR BLOTTER	335.00	TON		\$	
0440	10203ND		PAVEMENT ADJUSTMENT	1.00	LS	\$411,274.0	\$	\$411,274.00
0450	24779EC		INTELLIGENT COMPACTION FOR SOIL	340,512.00	CUYD		\$	
0460	24780EC		INTELLIGENT COMPACTION FOR AGGREGATE	43,464.00	TON		\$	
0470	24781EC		INTELLIGENT COMPACTION FOR ASPHALT	7,032.00	TON		\$	
0480	24891EC		PAVE MOUNT INFRARED TEMP EQUIPMENT	3,643.00	SF		\$	

Section: 0003 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0490	01810		STANDARD CURB AND GUTTER	308.00	LF		\$	
0500	01820		LIP CURB AND GUTTER	18.00	LF		\$	
0510	01830		STANDARD INTEGRAL CURB	470.00	LF		\$	
0520	01875		STANDARD HEADER CURB	226.00	LF		\$	
0530	01880		BARRIER HEADER CURB	101.00	LF		\$	
0540	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	58.00	EACH		\$	
0550	02014		BARRICADE-TYPE III	20.00	EACH		\$	
0560	02091		REMOVE PAVEMENT	3,640.00	SQYD		\$	
0570	02159		TEMP DITCH	27,500.00	LF		\$	
0575	02223		GRANULAR EMBANKMENT (ADDED: 11-30-18)	12,500.00	CUYD		\$	
0580	02242		WATER (FOR DUST CONTROL)	500.00	MGAL		\$	
0590	02351		GUARDRAIL-STEEL W BEAM-S FACE	3,425.00	LF		\$	
0600	02360		GUARDRAIL TERMINAL SECTION NO 1	4.00	EACH		\$	
0610	02381		REMOVE GUARDRAIL	1,000.00	LF		\$	
0620	02391		GUARDRAIL END TREATMENT TYPE 4A	7.00	EACH		\$	
0630	02429		RIGHT-OF-WAY MONUMENT TYPE 1	166.00	EACH		\$	
0640	02432		WITNESS POST	3.00	EACH		\$	
0645	02471		FILL AND CAP SINKHOLE (ADDED: 11-30-18)	4.00	EACH		\$	
0650	02483		CHANNEL LINING CLASS II	6,142.00	TON		\$	
0660	02484		CHANNEL LINING CLASS III	4,712.00	TON		\$	
0670	02545		CLEARING AND GRUBBING (APPROXIMATELY 186 ACRES)	1.00	LS		\$	
0680	02562		TEMPORARY SIGNS	624.00	SQFT		\$	
0690	02585		EDGE KEY	288.00	LF		\$	
0700	02596		FABRIC-GEOTEXTILE TYPE I	11,141.00	SQYD		\$	
0705	02599		FABRIC-GEOTEXTILE TYPE IV (ADDED: 11-30-18)	27,000.00	SQYD		\$	
0710	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	9,521.00	SQYD	\$2.00	\$	\$19,042.00
0720	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0730	02651		DIVERSIONS (BY-PASS DETOURS)	1.00	LS		\$	
0740	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0750	02701		TEMP SILT FENCE	27,500.00	LF		\$	
0760	02703		SILT TRAP TYPE A	186.00	EACH		\$	
0770	02704		SILT TRAP TYPE B	186.00	EACH		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0780	02705		SILT TRAP TYPE C	186.00	EACH		\$	
0790	02706		CLEAN SILT TRAP TYPE A	558.00	EACH		\$	
0800	02707		CLEAN SILT TRAP TYPE B	558.00	EACH		\$	
0810	02708		CLEAN SILT TRAP TYPE C	558.00	EACH		\$	
0820	02726		STAKING	1.00	LS		\$	
0830	02775		ARROW PANEL	1.00	EACH		\$	
0840	03343		STEEL PIPE-4 IN	265.00	LF		\$	
0850	05950		EROSION CONTROL BLANKET	38,906.00	SQYD		\$	
0860	05952		TEMP MULCH	900,240.00	SQYD		\$	
0870	05953		TEMP SEEDING AND PROTECTION	76,591.00	SQYD		\$	
0880	05963		INITIAL FERTILIZER	9.50	TON		\$	
0890	05964		20-10-10 FERTILIZER	13.98	TON		\$	
0900	05985		SEEDING AND PROTECTION	270,081.00	SQYD		\$	
0910	05989		SPECIAL SEEDING CROWN VETCH	34,330.00	SQYD		\$	
0920	05992		AGRICULTURAL LIMESTONE	188.70	TON		\$	
0930	06510		PAVE STRIPING-TEMP PAINT-4 IN	30,000.00	LF		\$	
0940	06514		PAVE STRIPING-PERM PAINT-4 IN	111,340.00	LF		\$	
0950	06568		PAVE MARKING-THERMO STOP BAR-24IN	260.00	LF		\$	
0960	06569		PAVE MARKING-THERMO CROSS-HATCH	190.00	SQFT		\$	
0970	06574		PAVE MARKING-THERMO CURV ARROW	55.00	EACH		\$	
0980	20063EN9T		DRY-LAID ROCK FENCE	1,048.00	LF		\$	
0990	20362ES403		SHOULDER RUMBLE STRIPS-SAWED	46,151.00	LF		\$	
1000	20458ES403		CENTERLINE RUMBLE STRIPS	25,073.00	LF		\$	
1010	20550ND		SAWCUT PAVEMENT	5,544.00	LF		\$	
1020	21289ED		LONGITUDINAL EDGE KEY	5,284.00	LF		\$	
1030	23607EC		PAVE MARK THERMO-LANE REDUCTION ARROW	3.00	EACH		\$	
1040	23623EC		REMOVE MOUNTABLE MEDIAN	241.00	SQYD		\$	
1050	24491ED		DRY-LAID ROCK FENCE (DISMANTLE & STOCKPILE)	1,064.00	LF		\$	
1060	24679ED		PAVE MARK THERMO CHEVRON	500.00	SQFT		\$	

Section: 0004 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1070	00078		CRUSHED AGGREGATE SIZE NO 2	126.00	TON		\$	
1080	00440		ENTRANCE PIPE-15 IN	637.00	LF		\$	
1090	00441		ENTRANCE PIPE-18 IN	277.00	LF		\$	
1100	00443		ENTRANCE PIPE-24 IN	336.00	LF		\$	
1110	00445		ENTRANCE PIPE-30 IN	60.00	LF		\$	
1120	00462		CULVERT PIPE-18 IN	285.00	LF		\$	
1130	00464		CULVERT PIPE-24 IN (REVISED: 11-30-18)	616.00	LF		\$	
1140	00466		CULVERT PIPE-30 IN	252.00	LF		\$	
1150	00468		CULVERT PIPE-36 IN	582.00	LF		\$	
1160	00470		CULVERT PIPE-48 IN	163.00	LF		\$	
1170	00472		CULVERT PIPE-60 IN	232.00	LF		\$	
1180	01000		PERFORATED PIPE-4 IN	3,581.00	LF		\$	
1190	01005		PERFORATED PIPE EDGE DRAIN-4 IN	35,152.00	LF		\$	

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 11-30-18

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1200	01010		NON-PERFORATED PIPE-4 IN	5,025.00	LF		\$	
1210	01028		PERF PIPE HEADWALL TY 3-4 IN	59.00	EACH		\$	
1220	01032		PERF PIPE HEADWALL TY 4-4 IN	67.00	EACH		\$	
1230	01204		PIPE CULVERT HEADWALL-18 IN	3.00	EACH		\$	
1240	01208		PIPE CULVERT HEADWALL-24 IN	8.00	EACH		\$	
1250	01210		PIPE CULVERT HEADWALL-30 IN	3.00	EACH		\$	
1260	01212		PIPE CULVERT HEADWALL-36 IN	8.00	EACH		\$	
1270	01216		PIPE CULVERT HEADWALL-48 IN	2.00	EACH		\$	
1280	01220		PIPE CULVERT HEADWALL-60 IN	2.00	EACH		\$	
1290	01450		S & F BOX INLET-OUTLET-18 IN	3.00	EACH		\$	
1300	01451		S & F BOX INLET-OUTLET-24 IN	4.00	EACH		\$	
1310	01493		DROP BOX INLET TYPE 2	1.00	EACH		\$	
1320	02597		FABRIC-GEOTEXTILE TYPE II	3,100.00	SQYD		\$	
1325	21799EN		BORE AND JACK PIPE-24 IN (ADDED: 11-30-18)	56.00	LF		\$	
1330	23952EC		DRAINAGE JUNCTION BOX TY B	1.00	EACH		\$	
1340	24814EC		PIPELINE INSPECTION	2,186.00	LF		\$	

Section: 0005 - BRIDGE - CULVERT #1 - STA.321+42 - DWG. 27793

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1350	08002		STRUCTURE EXCAV-SOLID ROCK	13.00	CUYD		\$	
1360	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1370	08100		CONCRETE-CLASS A	139.30	CUYD		\$	
1380	08150		STEEL REINFORCEMENT	8,931.00	LB		\$	

Section: 0006 - BRIDGE - CULVERT #2 - STA. 145+11 - DWG. 27792

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1390	08002		STRUCTURE EXCAV-SOLID ROCK	13.00	CUYD		\$	
1400	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1410	08100		CONCRETE-CLASS A	326.90	CUYD		\$	
1420	08150		STEEL REINFORCEMENT	34,443.00	LB		\$	

Section: 0007 - BRIDGE - CULVERT #3 - STA. 5+83.00 - DWG. 27797

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1430	08002		STRUCTURE EXCAV-SOLID ROCK	13.00	CUYD		\$	
1440	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1450	08100		CONCRETE-CLASS A	27.00	CUYD		\$	
1460	08150		STEEL REINFORCEMENT	1,912.00	LB		\$	

Section: 0008 - BRIDGE - CULVERT #4 - STA. 58+79 - DWG. 27802

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
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PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1470	08002		STRUCTURE EXCAV-SOLID ROCK	13.00	CUYD		\$	
1480	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1490	08100		CONCRETE-CLASS A	592.00	CUYD		\$	
1500	08150		STEEL REINFORCEMENT	49,871.00	LB		\$	
1510	08410		LOW FLOW DIVERSION CURB	1.00	LS		\$	

Section: 0009 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1520	06406		SBM ALUM SHEET SIGNS .080 IN	638.80	SQFT		\$	
1530	06407		SBM ALUM SHEET SIGNS .125 IN	150.60	SQFT		\$	
1540	06410		STEEL POST TYPE 1	1,055.00	LF		\$	
1550	06412		STEEL POST MILE MARKERS	10.00	EACH		\$	
1560	06490		CLASS A CONCRETE FOR SIGNS	5.06	CUYD		\$	
1570	21596ND		GMSS TYPE D	22.00	EACH		\$	
1580	24631EC		BARCODE SIGN INVENTORY	208.00	EACH		\$	

Section: 0010 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1590	04792		CONDUIT-1 IN	110.00	LF		\$	
1600	04795		CONDUIT-2 IN	125.00	LF		\$	
1610	04811		ELECTRICAL JUNCTION BOX TYPE B	13.00	EACH		\$	
1620	04820		TRENCHING AND BACKFILLING	1,800.00	LF		\$	
1630	04830		LOOP WIRE	4,000.00	LF		\$	
1640	04844		CABLE-NO. 14/5C	1,850.00	LF		\$	
1650	04850		CABLE-NO. 14/1 PAIR	9,750.00	LF		\$	
1660	04885		MESSENGER-10800 LB	600.00	LF		\$	
1670	04895		LOOP SAW SLOT AND FILL	1,500.00	LF		\$	
1680	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
1690	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	24.00	EACH		\$	
1700	20188NS835		INSTALL LED SIGNAL-3 SECTION	12.00	EACH		\$	
1710	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
1720	23157EN		TRAFFIC SIGNAL POLE BASE	21.00	CUYD		\$	
1730	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	575.00	LF		\$	
1740	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	1,200.00	LF		\$	
1750	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	1.00	EACH		\$	
1760	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0011 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1770	04701		POLE 40 FT MTG HT	1.00	EACH		\$	
1780	04725		BRACKET 15 FT	1.00	EACH		\$	
1790	04740		POLE BASE	1.00	EACH		\$	
1800	04750		TRANSFORMER BASE	1.00	EACH		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1810	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$	
1820	04780		FUSED CONNECTOR KIT	6.00	EACH		\$	
1830	04795		CONDUIT-2 IN	100.00	LF		\$	
1840	04820		TRENCHING AND BACKFILLING	610.00	LF		\$	
1850	04832		WIRE-NO. 12	171.00	LF		\$	
1860	04833		WIRE-NO. 8	2,400.00	LF		\$	
1870	04940		REMOVE LIGHTING	1.00	LS		\$	
1880	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH		\$	
1890	21543EN		BORE AND JACK CONDUIT	100.00	LF		\$	
1900	24589ED		LED LUMINAIRE	3.00	EACH		\$	
1910	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	610.00	LF		\$	

Section: 0012 - WATERLINE - KENTUCKY AMERICAN WATER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1920	14007		W ENCASEMENT STEEL BORED RANGE 2	90.00	LF		\$	
1930	14009		W ENCASEMENT STEEL BORED RANGE 4	430.00	LF		\$	
1940	14014		W ENCASEMENT STEEL OPEN CUT RANGE 3	180.00	LF		\$	
1950	14015		W ENCASEMENT STEEL OPEN CUT RANGE 4	740.00	LF		\$	
1960	14021		W FIRE HYDRANT REMOVE	1.00	EACH		\$	
1970	14022		W FLUSH HYDRANT ASSEMBLY (TYPE 1)	1.00	EACH		\$	
1980	14059		W PIPE PVC 06 INCH (SDR-21 WATER MAIN))	500.00	LF		\$	
1990	14076		W REMOVE TRANSITE (AC) PIPE	2,720.00	LF		\$	
2000	14090		W TAPPING SLEEVE AND VALVE SIZE 2 (6-IN X 6-IN)	2.00	EACH		\$	
2010	14104		W VALVE 04 INCH	2.00	EACH		\$	
2020	14105		W VALVE 06 INCH	2.00	EACH		\$	
2030	14106		W VALVE 08 INCH	2.00	EACH		\$	
2040	14500		W AIR RELEASE VALVE 1 INCH INST	1.00	EACH		\$	
2050	14503		W CAP EXISTING MAIN INST	5.00	EACH		\$	
2060	14508		W ENCASEMENT STEEL OPEN CUT RANGE 5 INST (18-IN)	220.00	LF		\$	
2070	14510		W FIRE HYDRANT ASSEMBLY INST	2.00	EACH		\$	
2080	14511		W FLUSH HYDRANT ASSEMBLY INST	1.00	EACH		\$	
2090	14522		W PIPE DUCTILE IRON 04 INCH INST	225.00	LF		\$	
2100	14523		W PIPE DUCTILE IRON 06 INCH INST	825.00	LF		\$	
2110	14523		W PIPE DUCTILE IRON 06 INCH INST (CLASS 350)	250.00	LF		\$	
2120	14524		W PIPE DUCTILE IRON 08 INCH INST	4,390.00	LF		\$	
2130	14561		W PLUG EXISTING MAIN INST (CUT & PLUG)	2.00	EACH		\$	
2140	14573		W TAPPING SLEEVE AND VALVE SIZE 1 INST	5.00	EACH		\$	
2150	14577		W TIE-IN 04 INCH INST	2.00	EACH		\$	
2160	14578		W TIE-IN 06 INCH INST	4.00	EACH		\$	
2170	14588		W VALVE 04 INCH INST	2.00	EACH		\$	
2180	14589		W VALVE 06 INCH INST	2.00	EACH		\$	
2190	14590		W VALVE 08 INCH INST	2.00	EACH		\$	

PROPOSAL BID ITEMS

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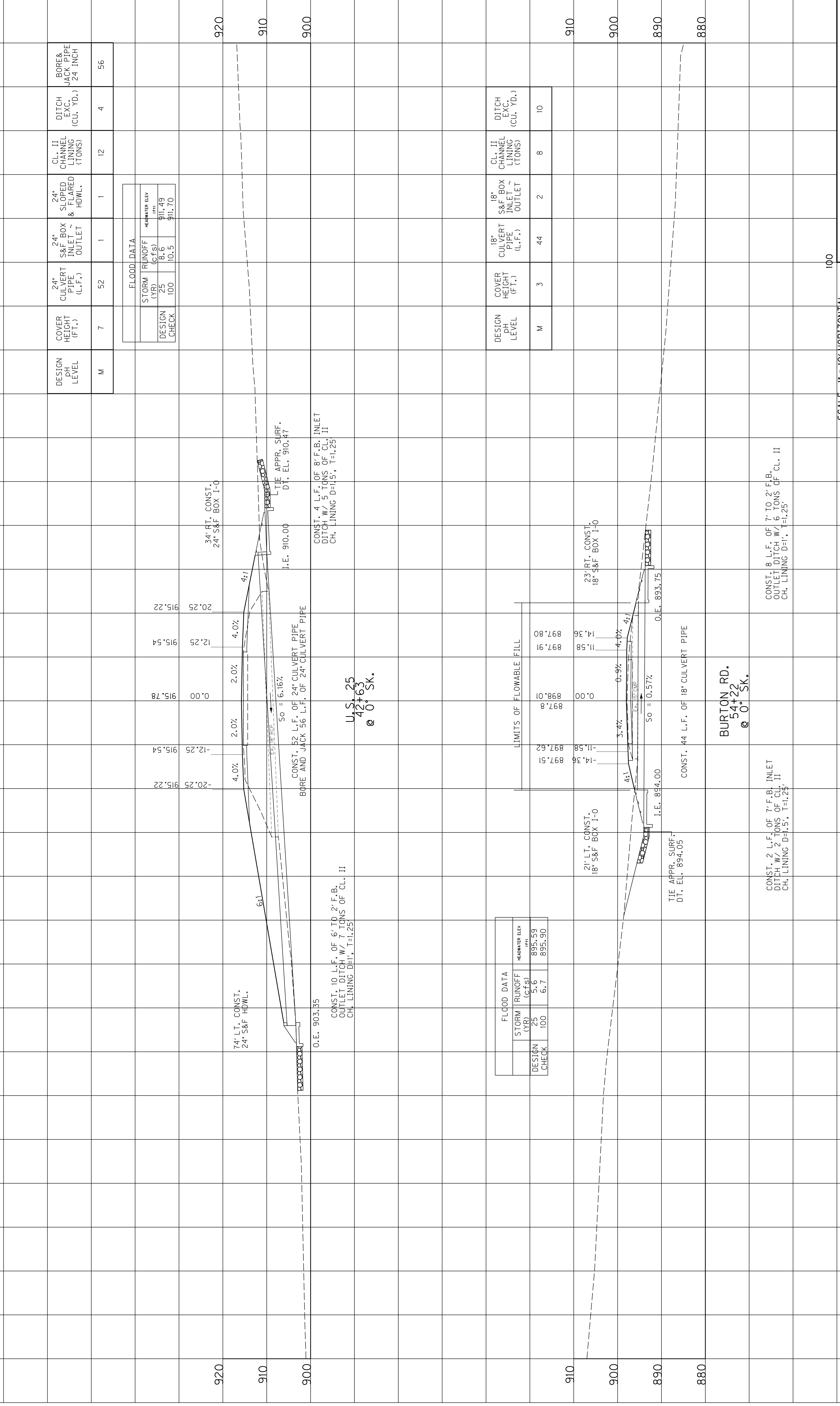
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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2200	14608		W ENCASEMENT SPECIAL INST (TYPE B CREEK CROSSING)	30.00	LF		\$	

Section: 0013 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2210	02568		MOBILIZATION	1.00	LS		\$	
2220	02569		DEMOBILIZATION	1.00	LS		\$	



DESIGN PH LEVEL	M
COVER HEIGHT (FT.)	7
24" CULVERT PIPE (L.F.)	52
24" S&F BOX INLET & FLARED HDWL	1
CL. II CHANNEL LINING (TONS)	12
DITCH EXC. (CU. YD.)	4
BORE & JACK PIPE (CU. YD.)	56

FLOOD DATA		
STORM (YR)	RUNOFF (CFS)	HEADWATER ELEV (FT)
DESIGN 25	8.6	911.49
CHECK 100	10.5	911.70

FLOOD DATA		
STORM (YR)	RUNOFF (CFS)	HEADWATER ELEV (FT)
DESIGN 25	5.6	895.59
CHECK 100	6.7	895.90

LIMITS OF FLOWABLE FILL		
Station	Elevation	Notes
910+00	897.80	Top of 18" S&F Box I-O
900+00	897.91	Top of 24" S&F Box I-O
890+00	897.80	Top of 18" S&F Box I-O
880+00	897.75	Top of 18" S&F Box I-O

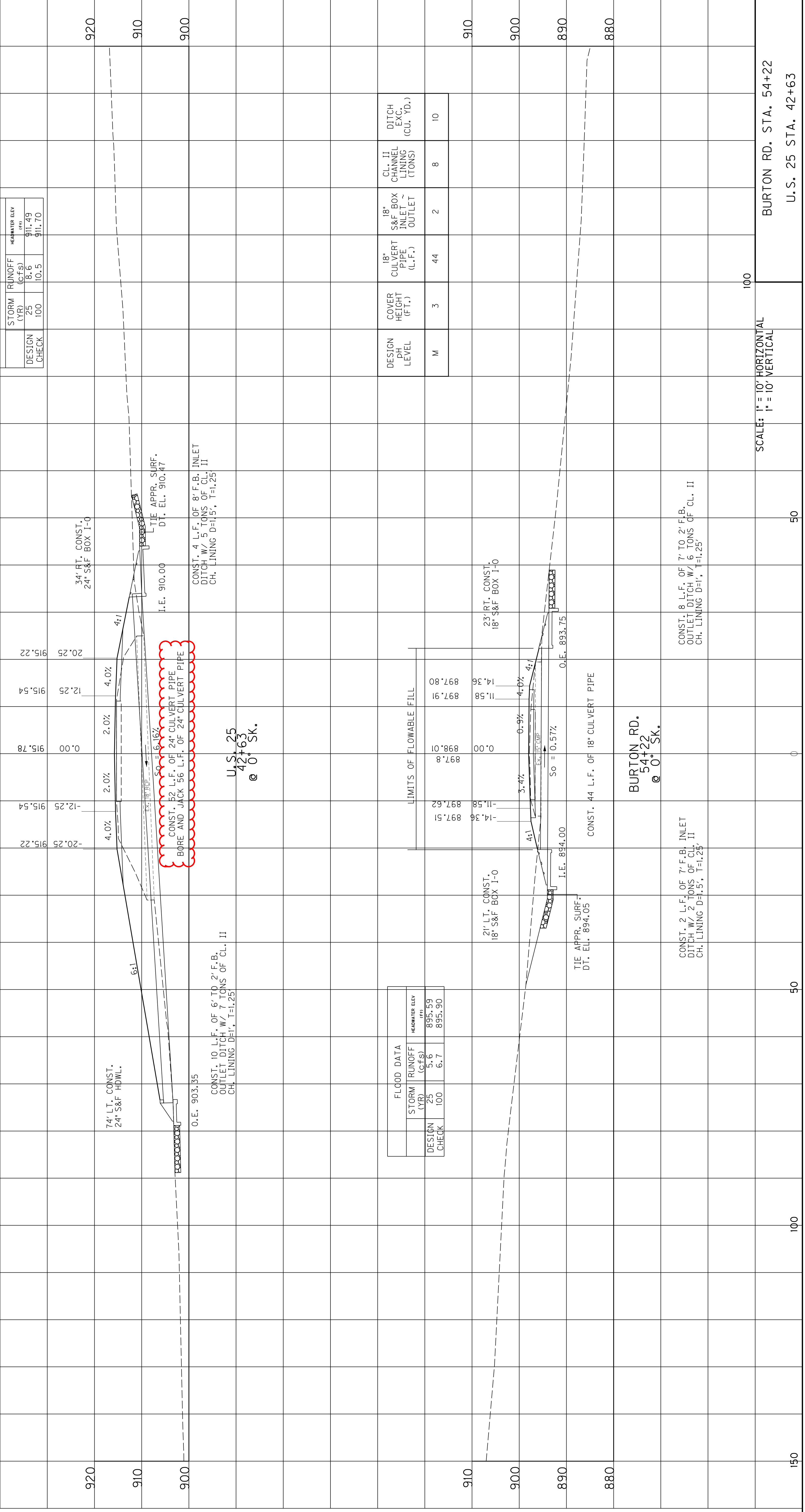
U.S. 25
42+63
@ 0' Sk.

BURTON RD.
54+22
@ 0' Sk.

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DESIGN PH LEVEL	M	COVER HEIGHT (FT.)	7	24" CULVERT PIPE (L.F.)	52	24" S&F BOX INLET & FLARED HDWL. ~ OUTLET	1	CL. II CHANNEL LINING (TONS)	12	DITCH EXC. (CU. YD.)	4	BORE & JACK PIPE 24 INCH
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FLOOD DATA		
STORM (YR)	RUNOFF (CFS)	HEADWATER ELEV (FT)
DESIGN	25	8.6
CHECK	100	10.5
		911.49
		911.70



FLOOD DATA		
STORM (YR)	RUNOFF (CFS)	HEADWATER ELEV (FT)
DESIGN	25	5.6
CHECK	100	6.7
		895.59
		895.90

LIMITS OF FLOWABLE FILL		
897.8	898.01	897.80
897.51	897.62	897.91
897.36	897.58	897.80
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833.11	833.36	833.61
832.86	833.11	833.36
832.61	832.86	833.11
832.36	832.61	832.86

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	MAINLINE GEORGETOWN NW BYPASS	KY. 32	BURTON ROAD	U.S. 25	FRONTAGE ROAD LT. & RT. STA. 391+50	PROJECT TOTAL
1810	STANDARD CURB & GUTTER	LF					308	308
1820	LIP CURB AND GUTTER	LF	18					18
1830	STANDARD INTEGRAL CURB	LF					470	470
1875	STANDARD HEADER CURB	LF					226	226
1880	BARRIER HEADER CURB	LF	101					101
1987	DELINEATOR FOR GUARDRAIL - BI-DIRECTIONAL WHITE	EACH	58					58
2014	BARRICADE-TYPE III	EACH	18		2			20
2091	REMOVING PAVEMENT	SY	3640					3640
2159	TEMPORARY DITCH	LF	27500					27500
2200	ROADWAY EXCAVATION	CY						
2223	GRANULAR EMBANKMENT	CY	12500					12500
2242	WATER	M GAL						500
2351	GUARDRAIL-STEEL W BEAM-S FACE	LF	3425					3425
2360	GUARDRAIL TERMINAL SECTION - NO. 1	EACH	4					4
2391	GUARDRAIL END TREATMENT TY. 4A	EACH	7					7
2381	REMOVE GUARDRAIL	LF	850	150				1000
2429	R/W MONUMENT TYPE 1	EACH	141		11	14		166
2432	WITNESS POST	EACH						3
2471	FILL AND CAP SINKHOLE	EACH	4					4
2483	CHANNEL LINING CLASS II	TONS	5874		21	125	122	6142
2484	CHANNEL LINING CLASS III	TONS	4712					4712
2545	CLEARING AND GRUBBING	LP SUM						1
2562	SIGNS	SO FT						624
2568	MOBILIZATION	LP SUM	1					1
2569	DEMobilIZATION	LP SUM						1
2585	EDGE KEY	LF	116	94	36	42		288
2596	FABRIC-GEOTEXTILE TYPE I	SY	10932		34	175		11141
2599	FABRIC-GEOTEXTILE TYPE IV	SY	27000					27000
2600	FABRIC-GEOTEXTILE TYPE IV FOR PIPES	SY	9041		155	325		9521
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM						1
2651	DIVERSION NO. 1	LP SUM						1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	4					4
2701	TEMPORARY SILT FENCE	LF	27500					27500
2703	SILT TRAP TYPE "A"	EACH	186					186
2704	SILT TRAP TYPE "B"	EACH	186					186
2705	SILT TRAP TYPE "C"	EACH	186					186
2706	CLEAN SILT TRAP TYPE "A"	EACH	558					558
2707	CLEAN SILT TRAP TYPE "B"	EACH	558					558
2708	CLEAN SILT TRAP TYPE "C"	EACH	558					558
2726	STAKING	LP SUM						1
2775	ARROW PANEL	EACH	1					1
3343	STEEL PIPE - 4 INCH	LF	265					265
5950	EROSION CONTROL BLANKET	SY	32201		783	1222		38906
5952	TEMPORARY MULCH	SY	900,240					900240
5953	TEMPORARY SEEDING AND PROTECTION	SY	76591					76591
5963	INITIAL FERTILIZER	TON	9		0.1	0.4		9.5
5964	20-10-10 FERTILIZER	TON	13.21		0.20	0.57		13.98
5985	SEEDING AND PROTECTION	SY	255304		3838	10939		270081
5989	SPECIAL SEEDING CROWN VETCH	SY	34330					34330
5992	AGRICULTURAL LIMESTONE	TON	179.5		2.4	6.8		188.7
6510	PAVE STRIPING-TEMP PAINT - 4 IN	LF						30000
6514	PAVE STRIPING-PERM PAINT - 4 IN	LF	97600	1240	3700	8800		111340
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	80	50	50	80		260
6569	PAVE MARKING-THERMO CROSS HATCH	SO FT	190					190
6574	PAVE MARKING-THERMO CURV ARROW	EACH	40	2		13		55

NOTES:

- ① 186 ACRES
 - ② FOR DUST CONTROL.
 - ③ THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) EACH TRAP WHENEVER THEY BECOME ONE-HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL. SITES APPROVED BY THE ENGINEER. THIS IS ESTIMATED THREE TIMES PER CONSTRUCTION SEASON PER TRAP.
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 - ⑦ TO BE PLACED BENEATH ROCK LINING IN ALL DITCHES
 - ⑧ ESTIMATED @ 30% OF TOTAL SEEDING AND PROTECTION
 - ⑨ EARTHWORK CALCULATIONS DO NOT REFLECT THE APPLICATION OF SHRINK/SWELL FACTORS.
 - ⑩ INCLUDES 1297 TONS FROM THE PIPE DRAINAGE SUMMARY.
 - ⑪ INCLUDES 117 TONS FROM THE PIPE DRAINAGE SUMMARY.
 - ⑫ INCLUDES 179 SQ. YDS. FROM THE PIPE DRAINAGE SUMMARY.
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- SEE SHEET R2G AND R2H FOR EARTHWORK DUE TO ALTERNATE PAVEMENT BID.

ALTERNATE 1	
EARTHWORK TOTALS	
EXCAVATION	
320,420	COMMON
41,198	ROCK
4,691	DITCH LEFT
4,491	DITCH RIGHT
22,384	TRANS. BENCH
533	INLET/OUTLET DITCHES
393,717	TOTAL EXCAVATION
EMBANKMENT	
286,416	EMB
31,712	REFILL
22,384	TRANS. BENCH
340,512	TOTAL EMBANKMENT

GENERAL SUMMARY

GENERAL SUMMARY

REVISED: 11/30/18

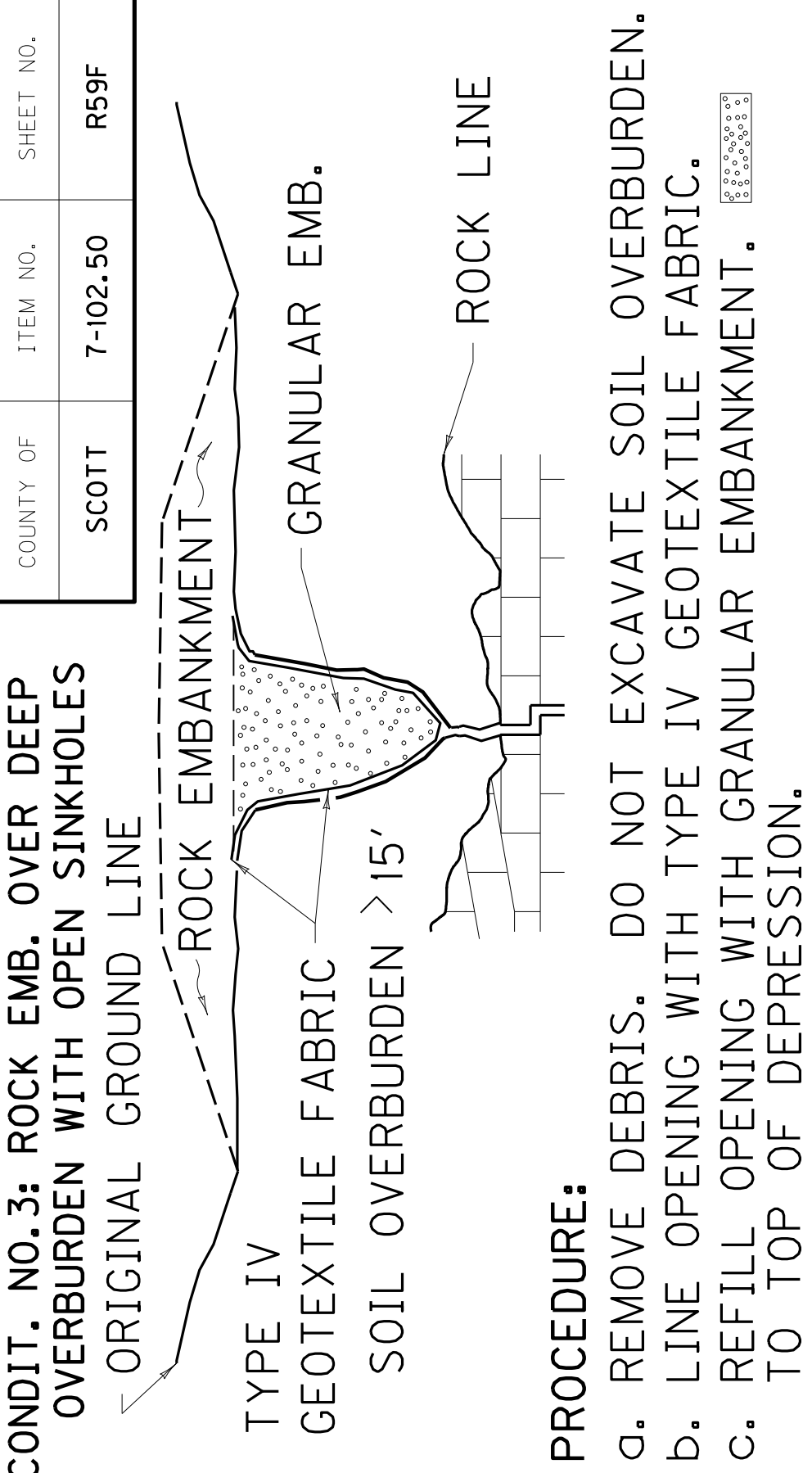
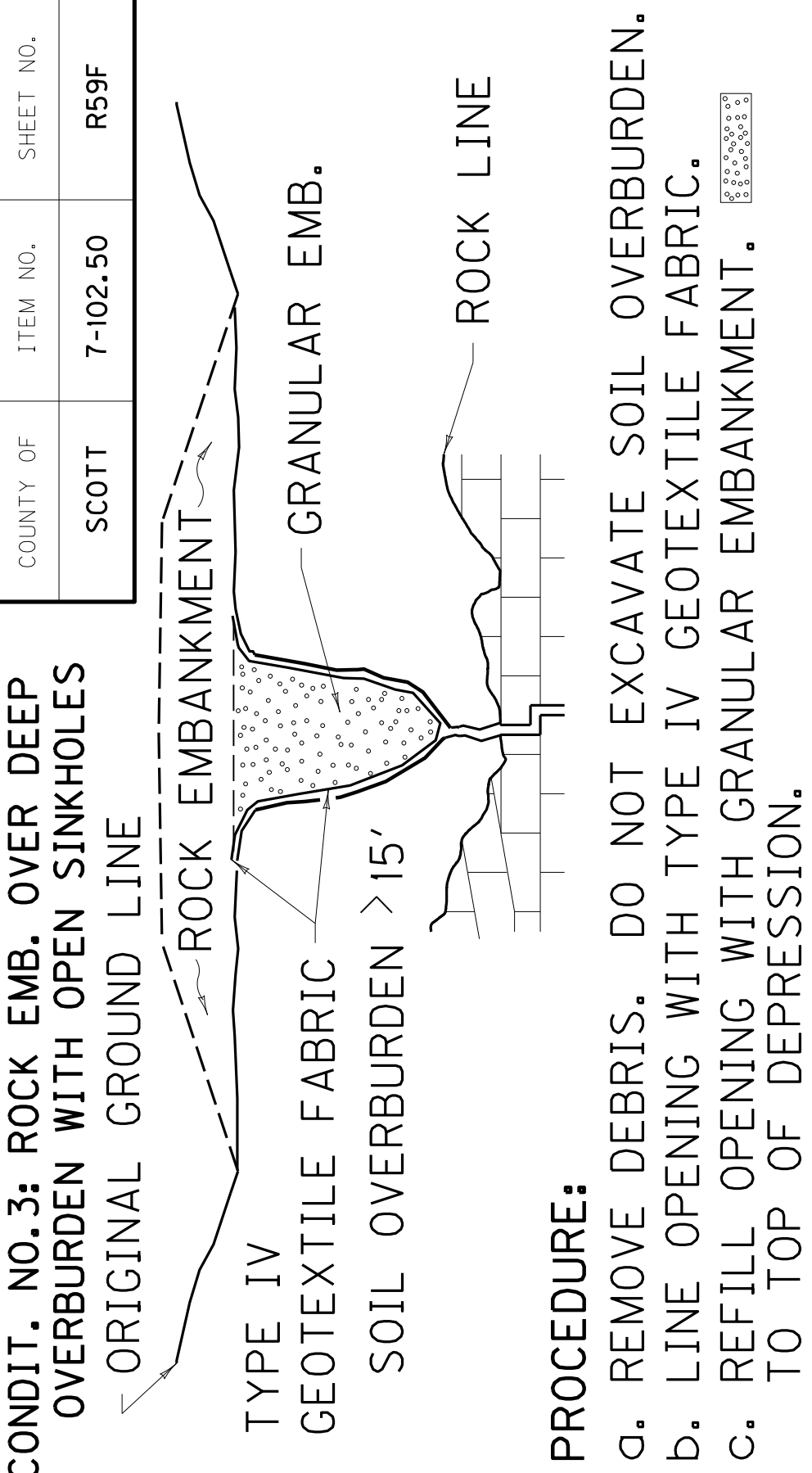
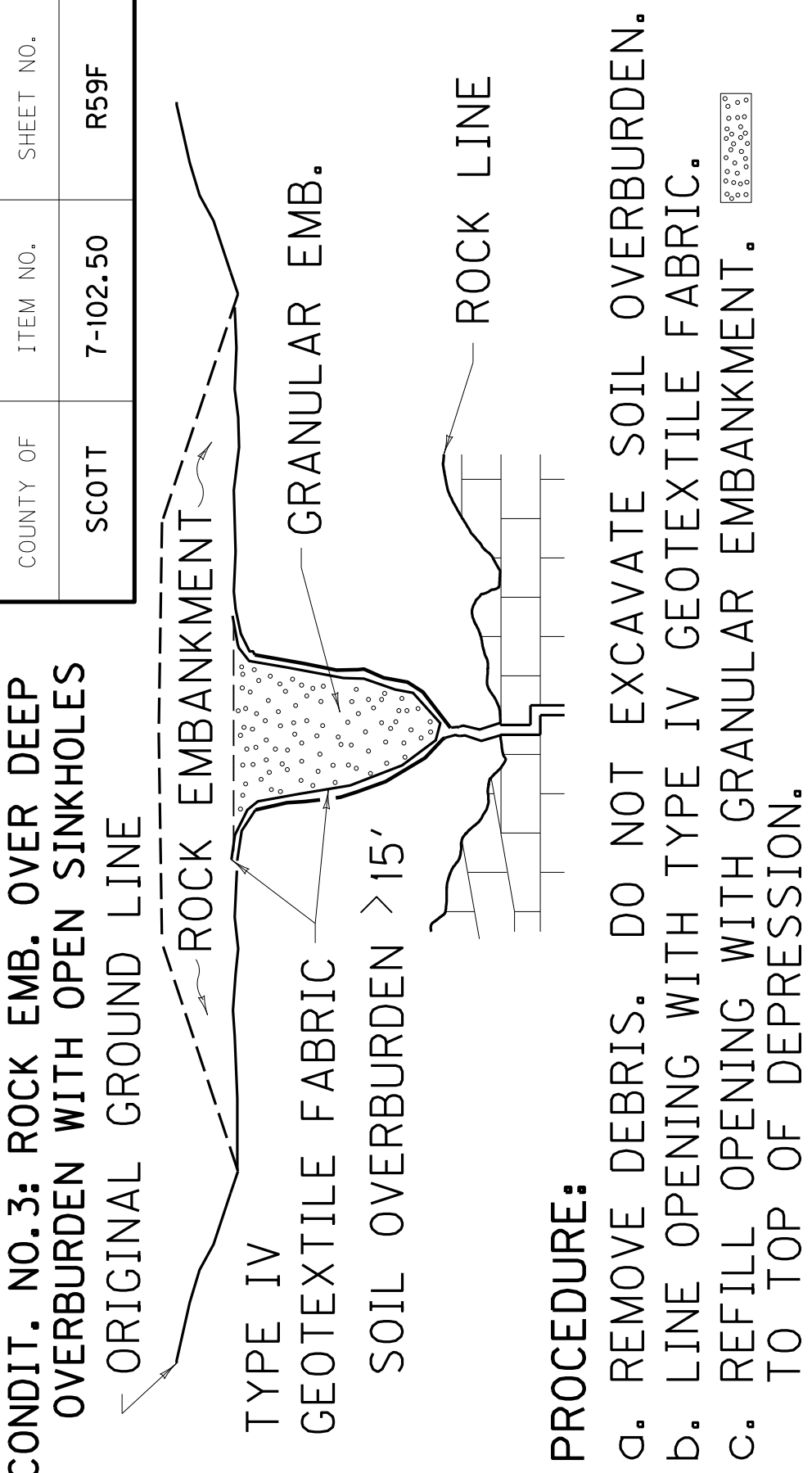
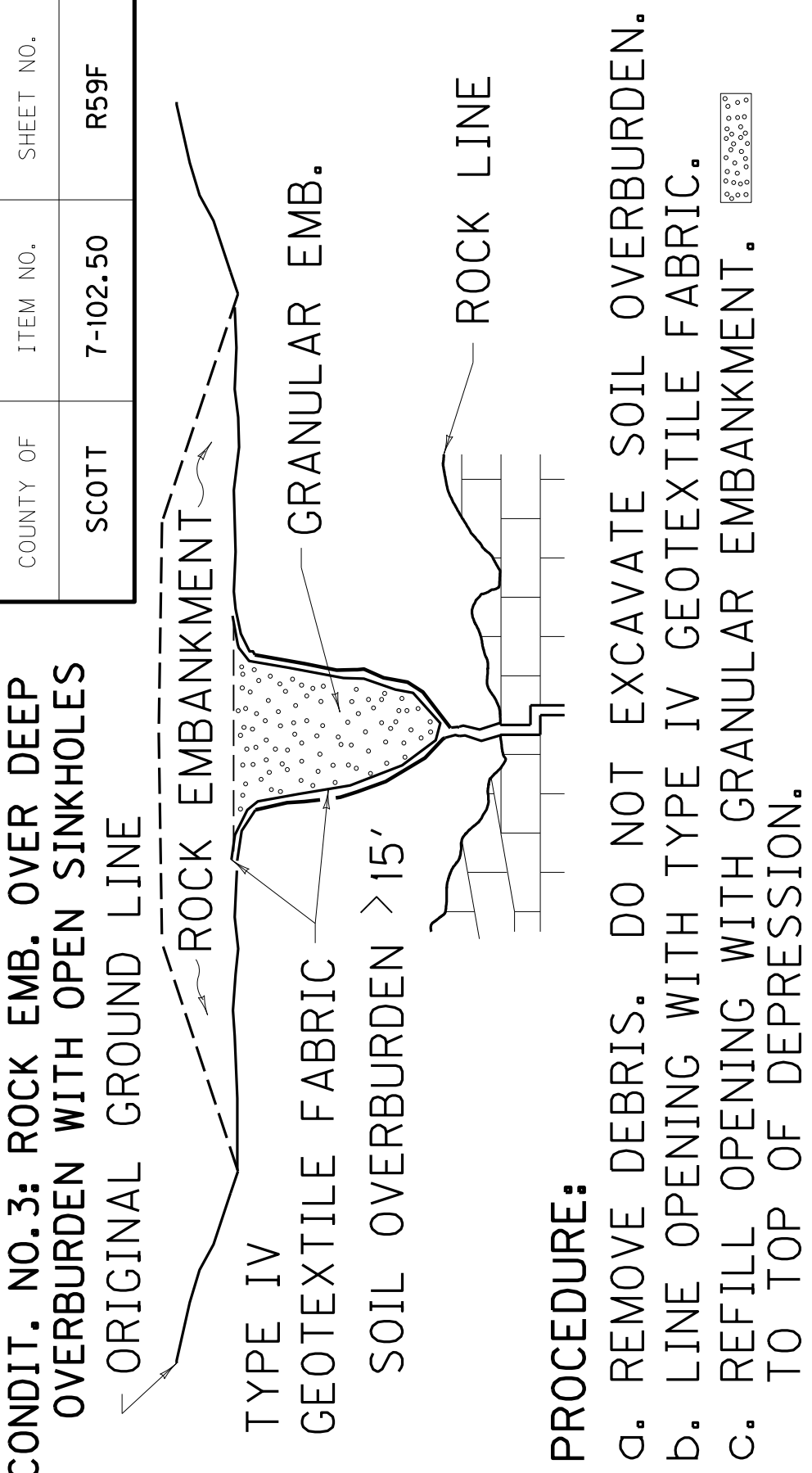
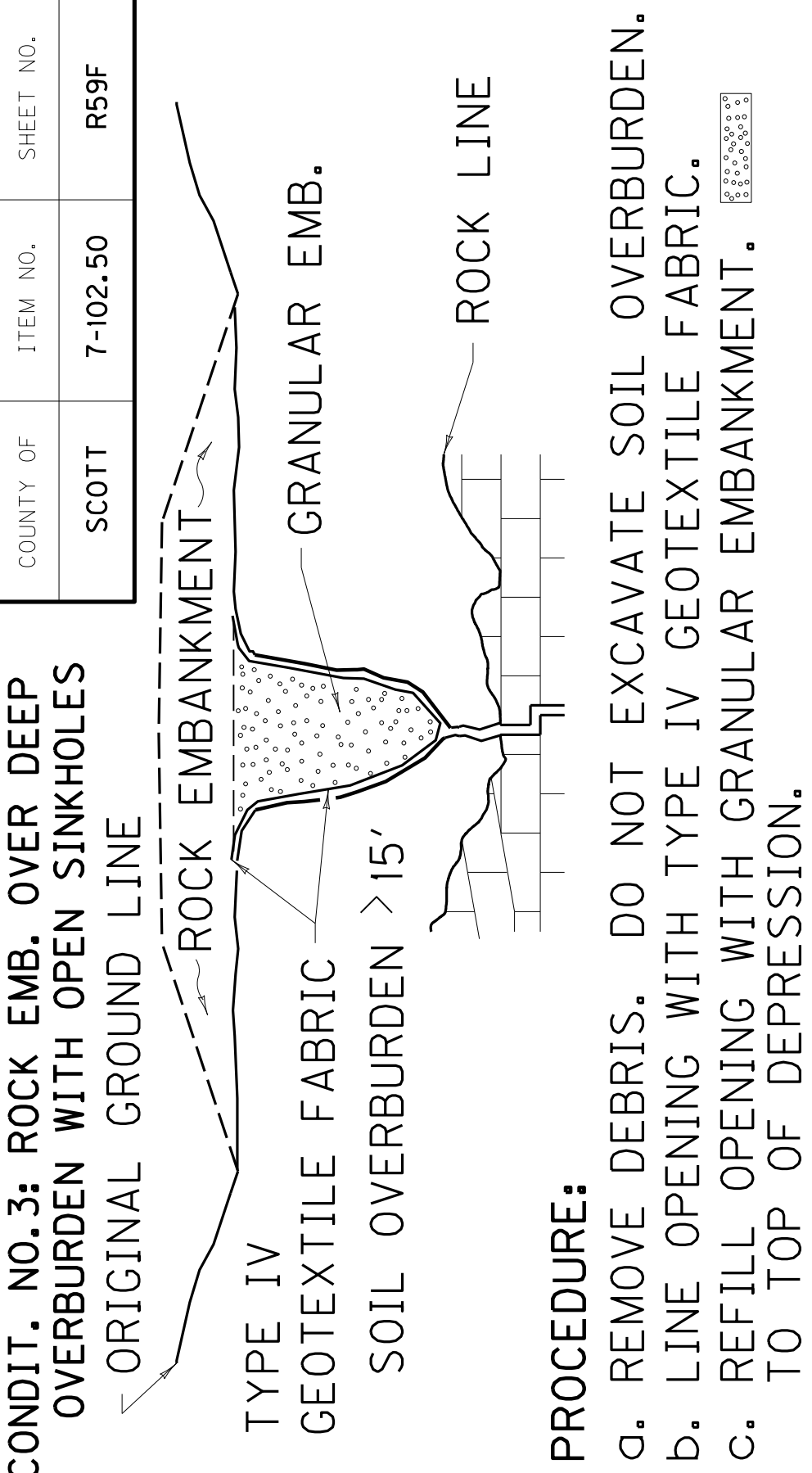
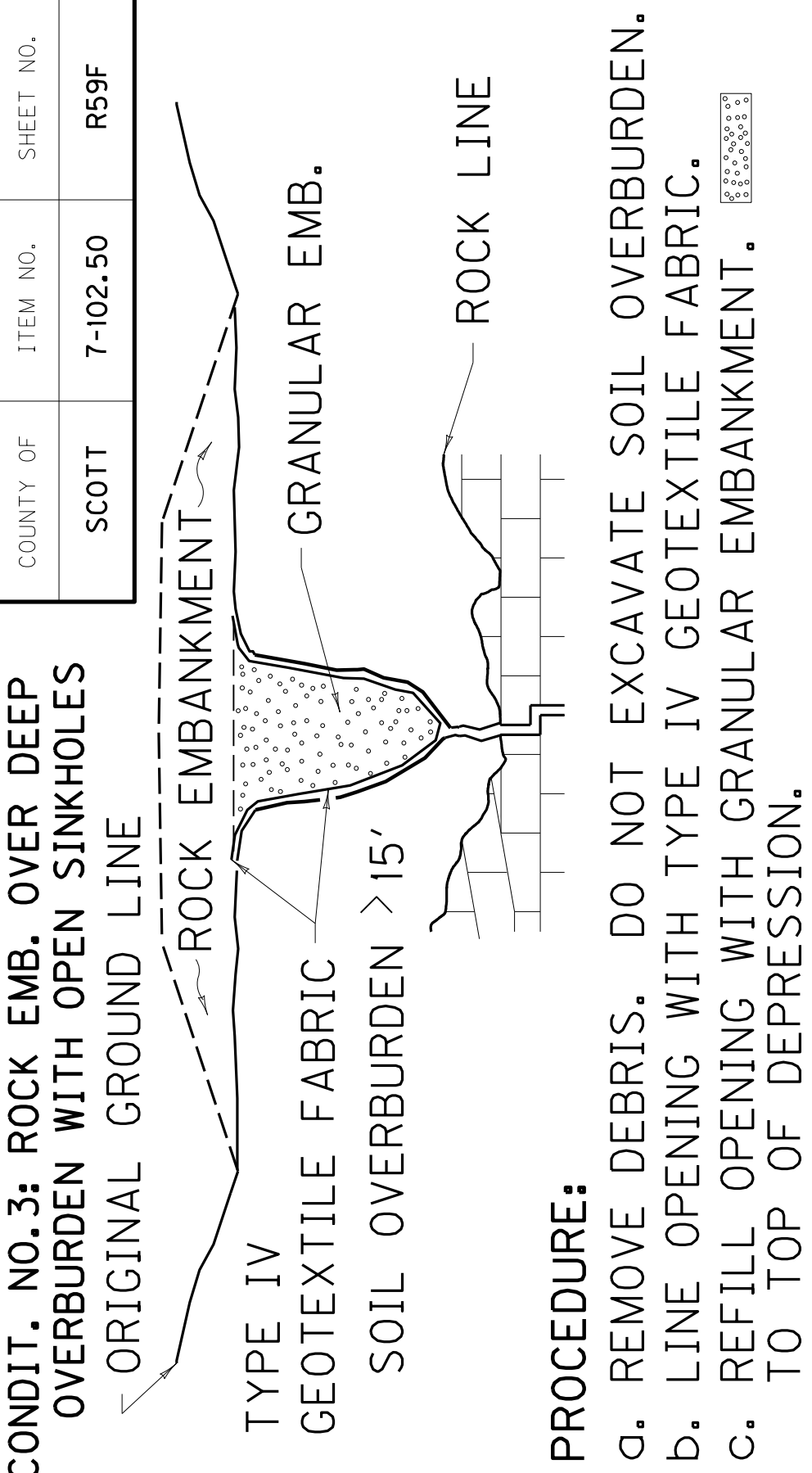
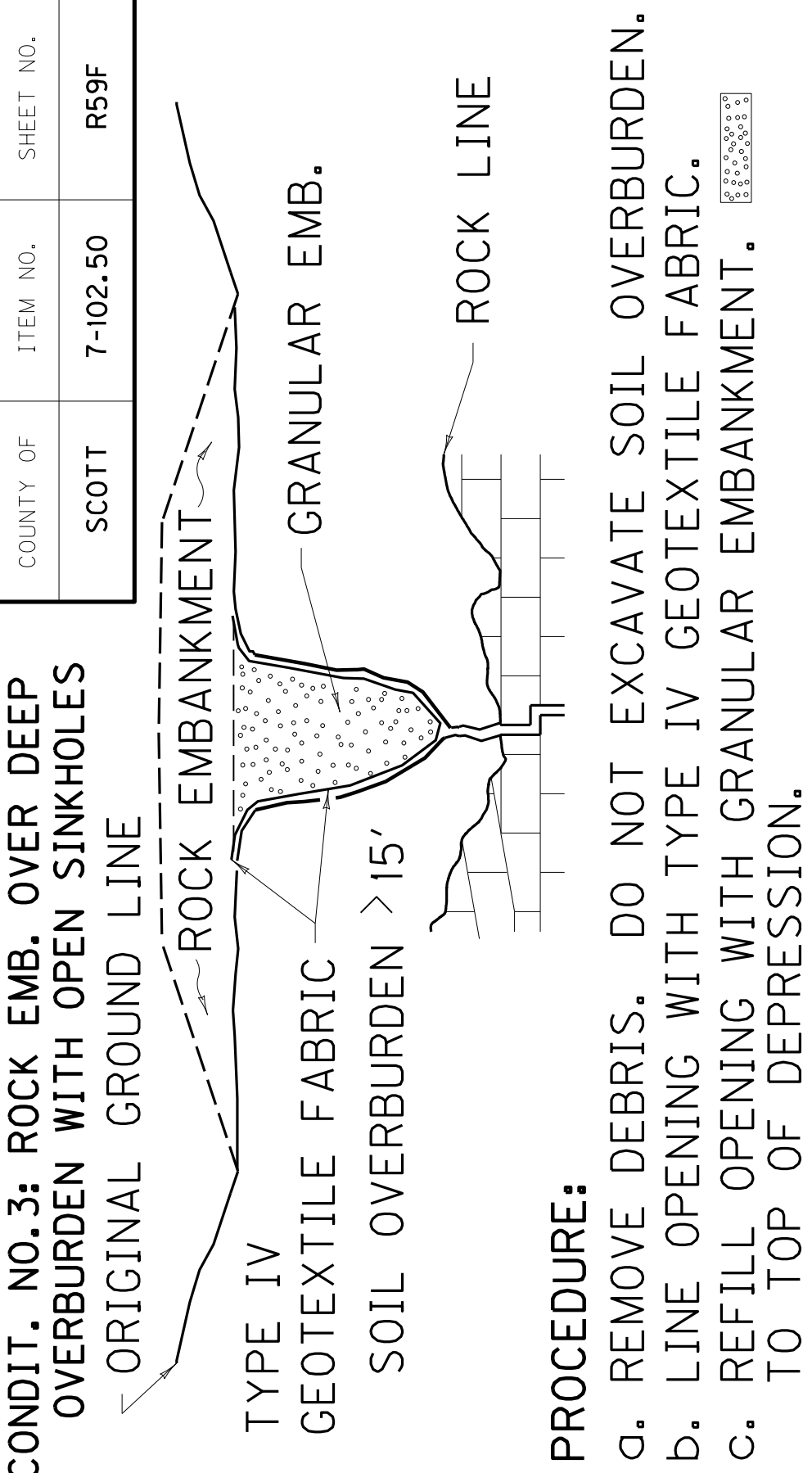
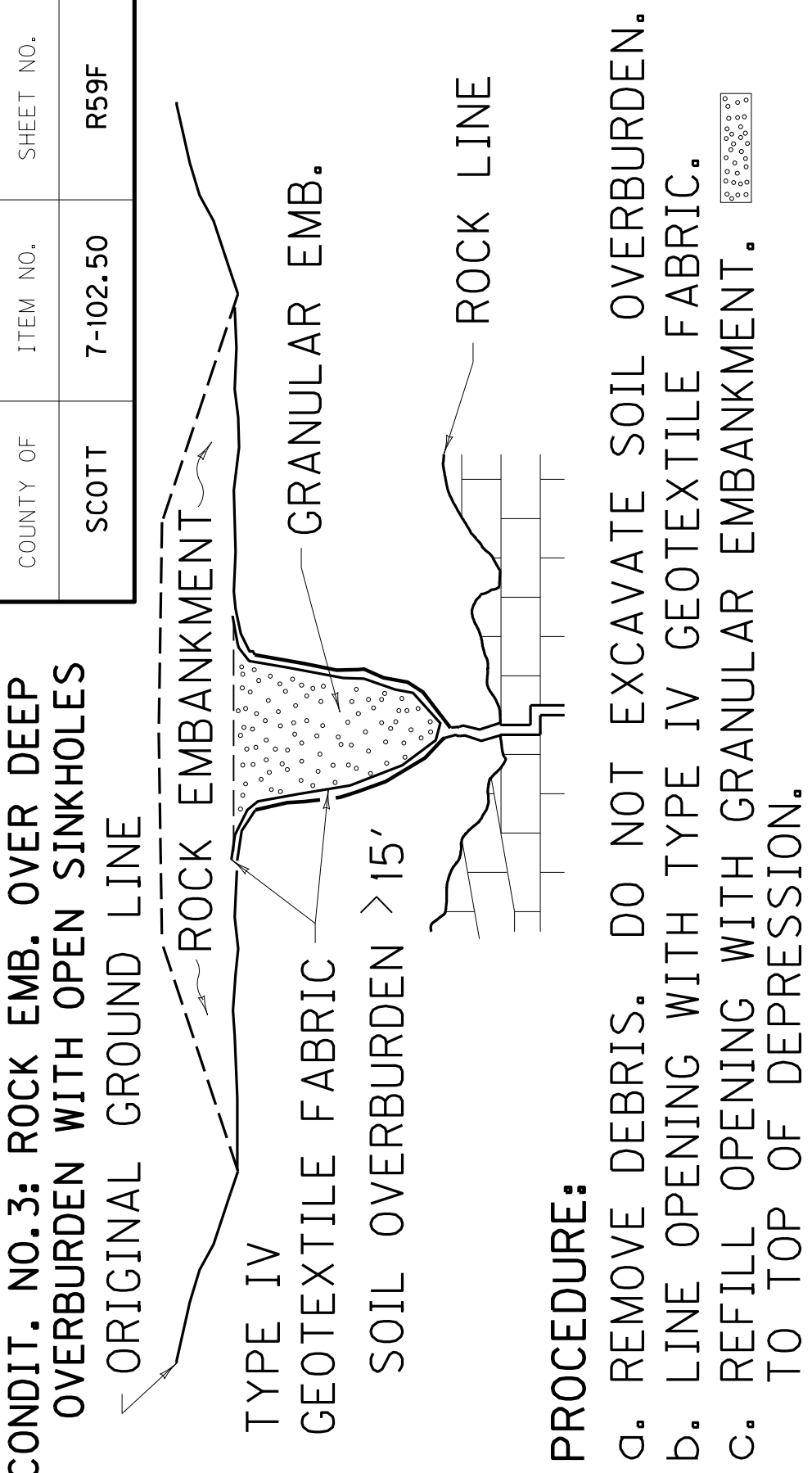
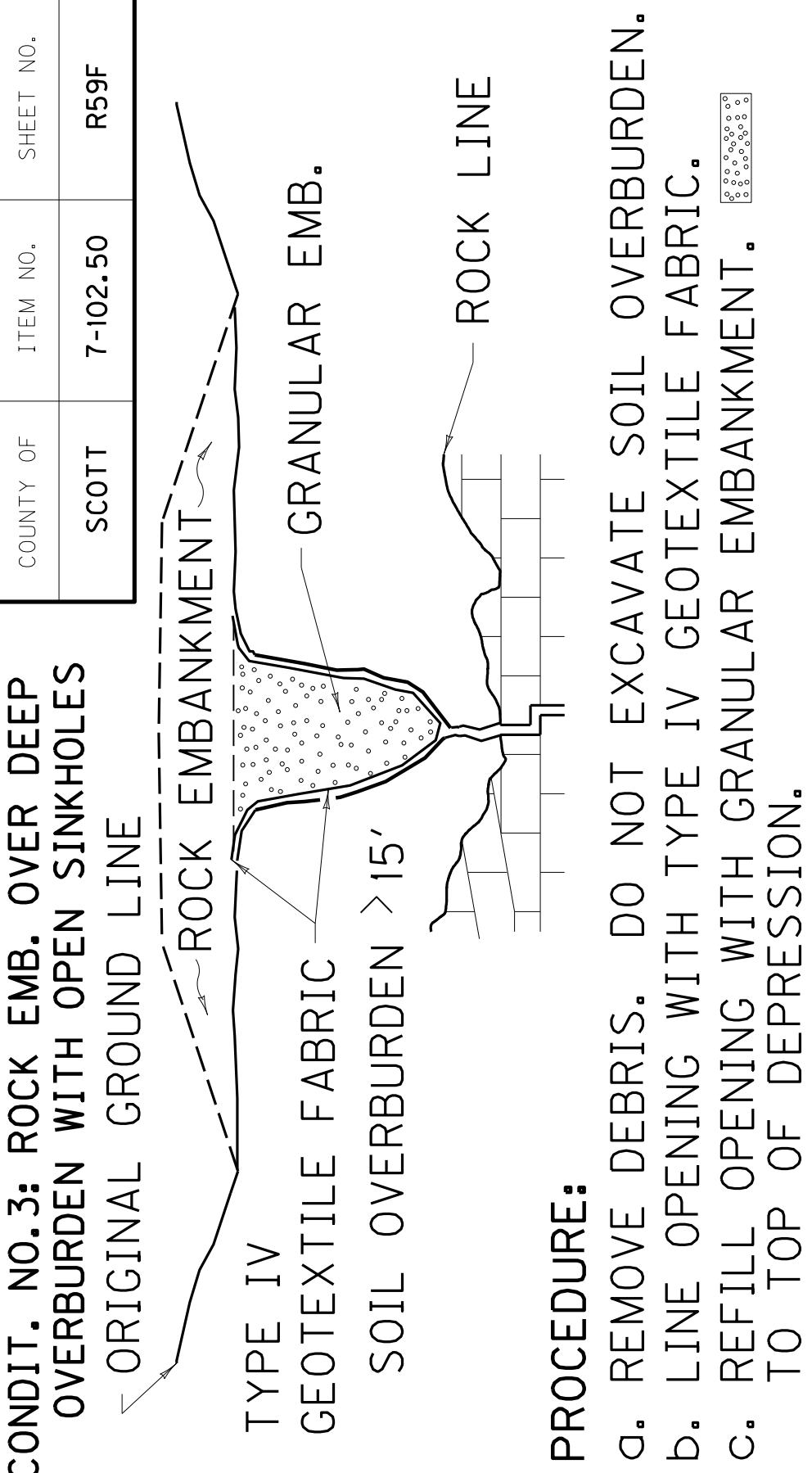
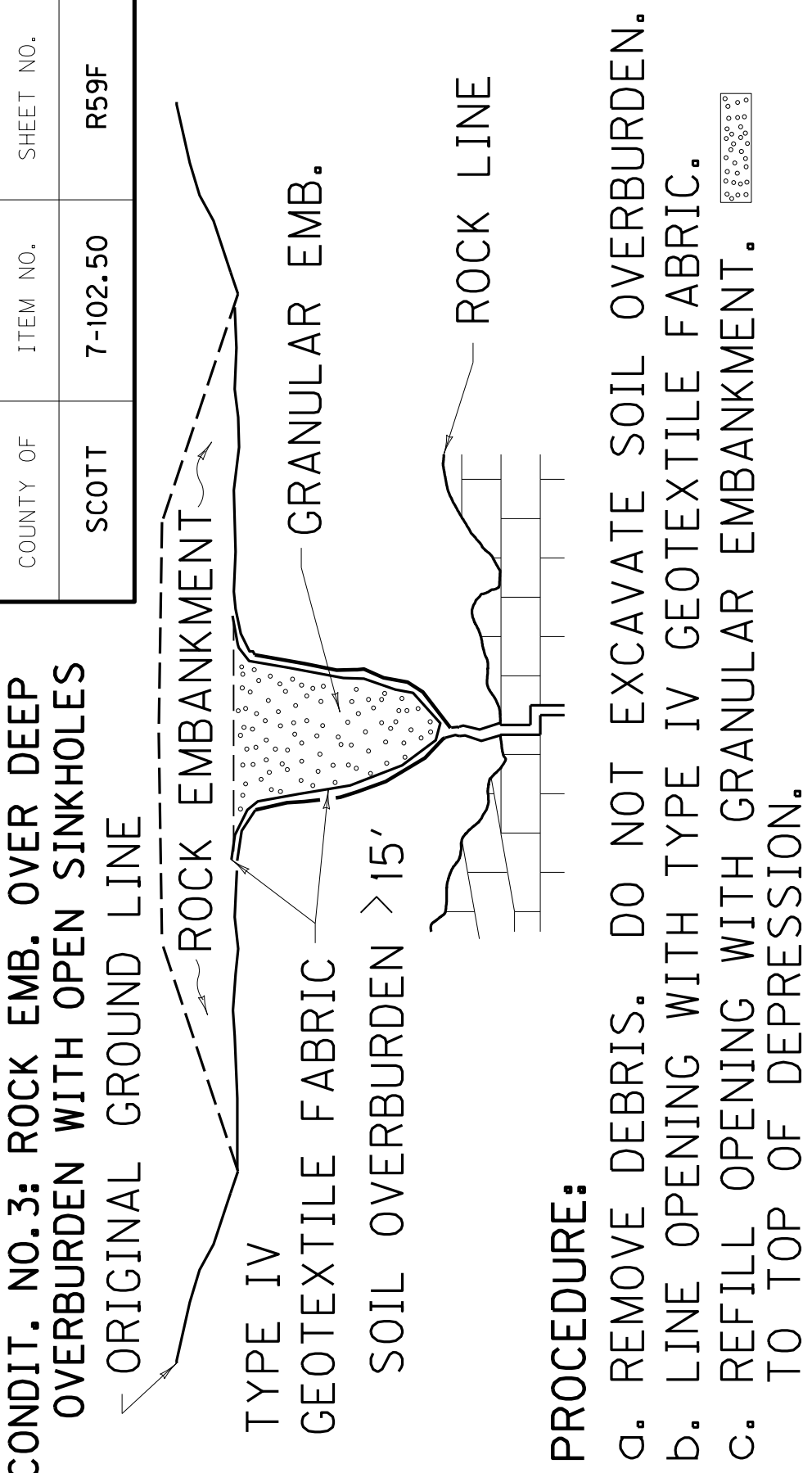
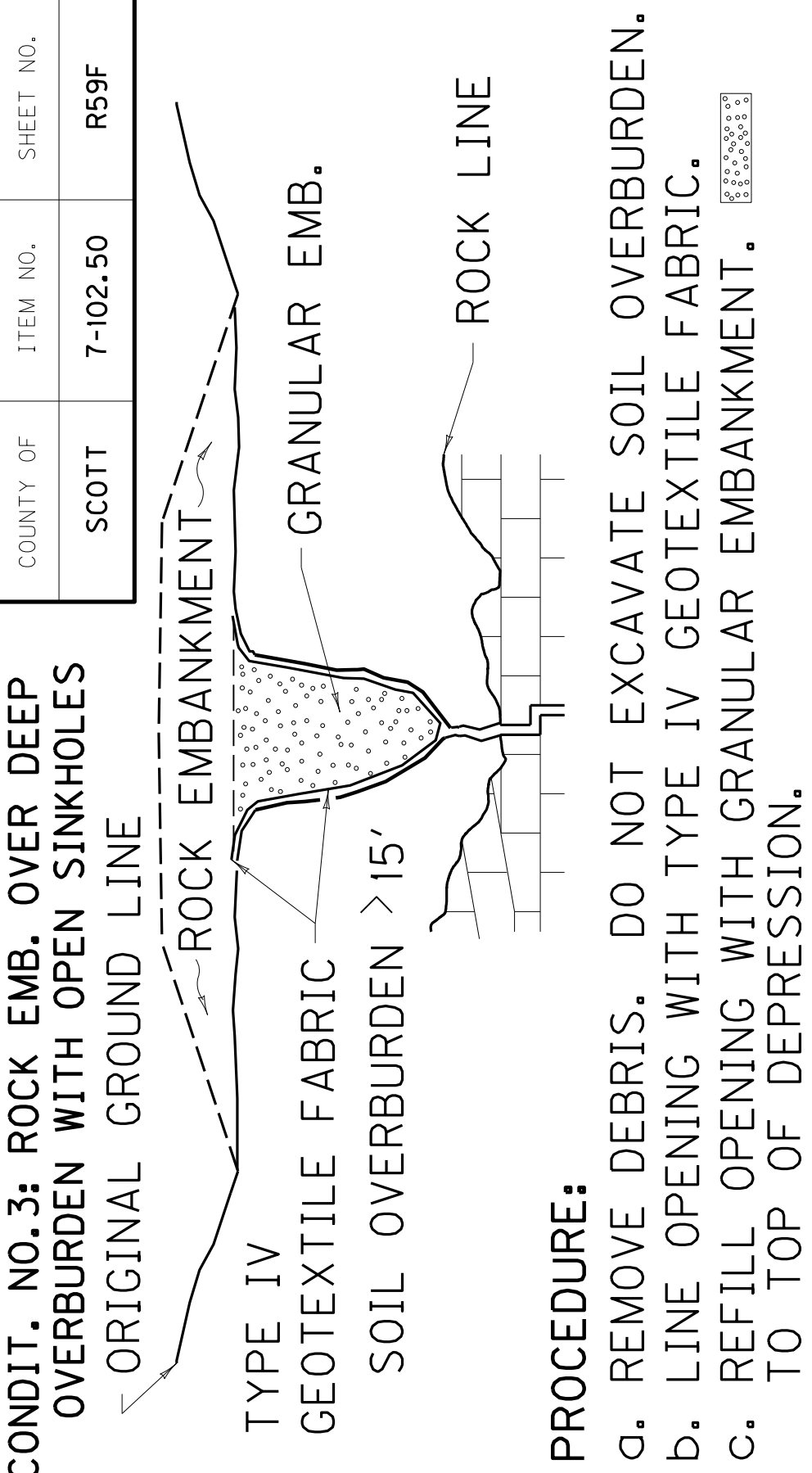
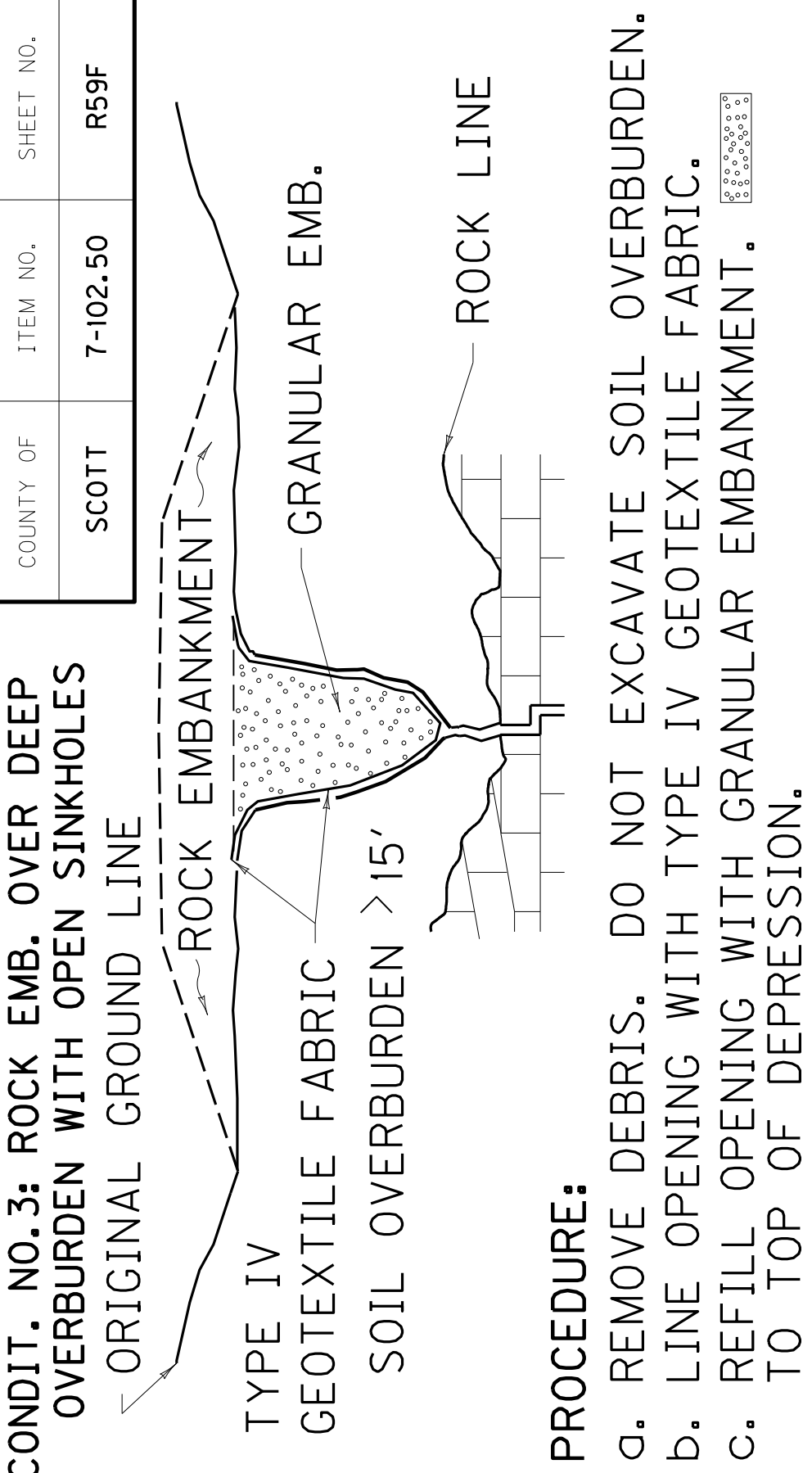
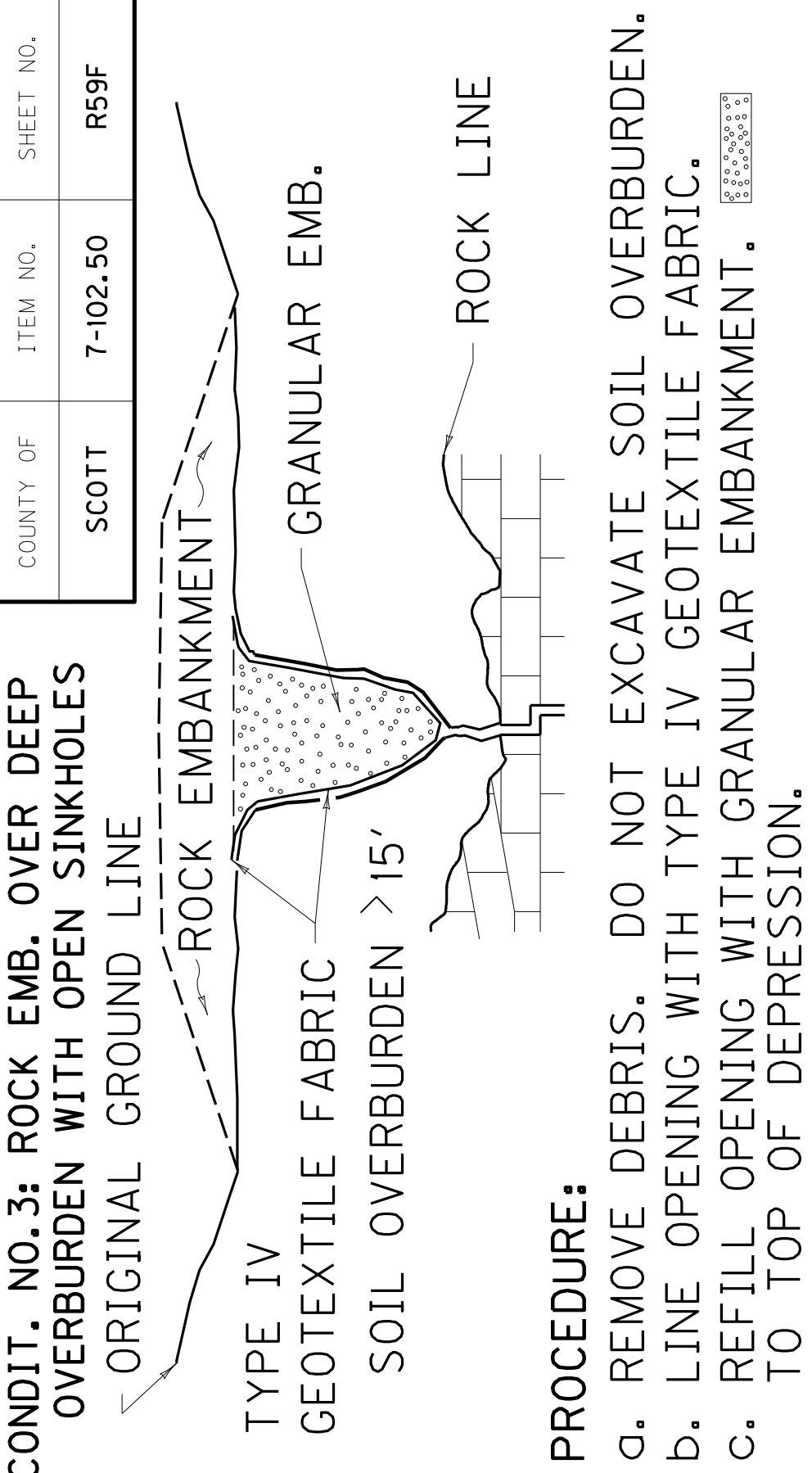
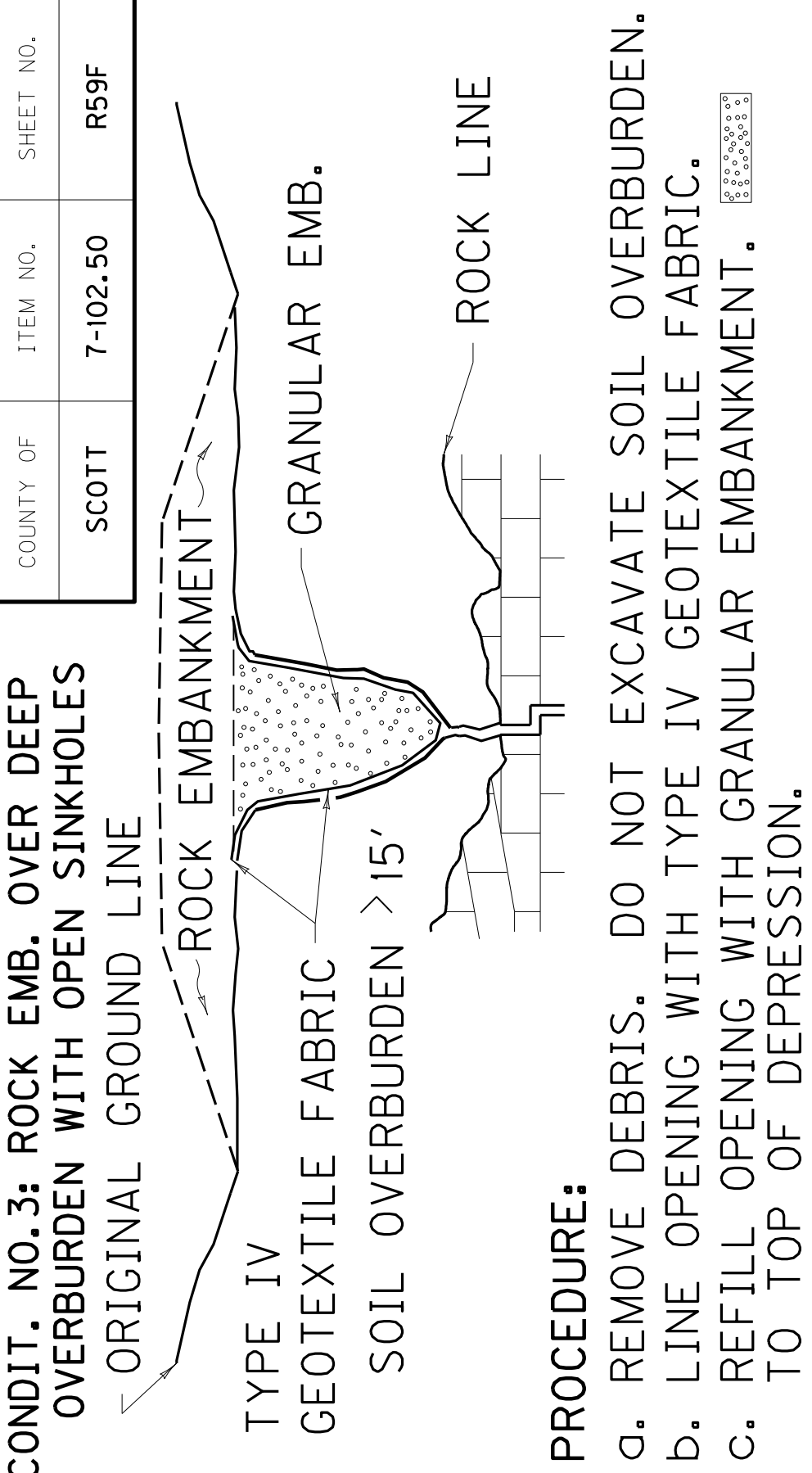
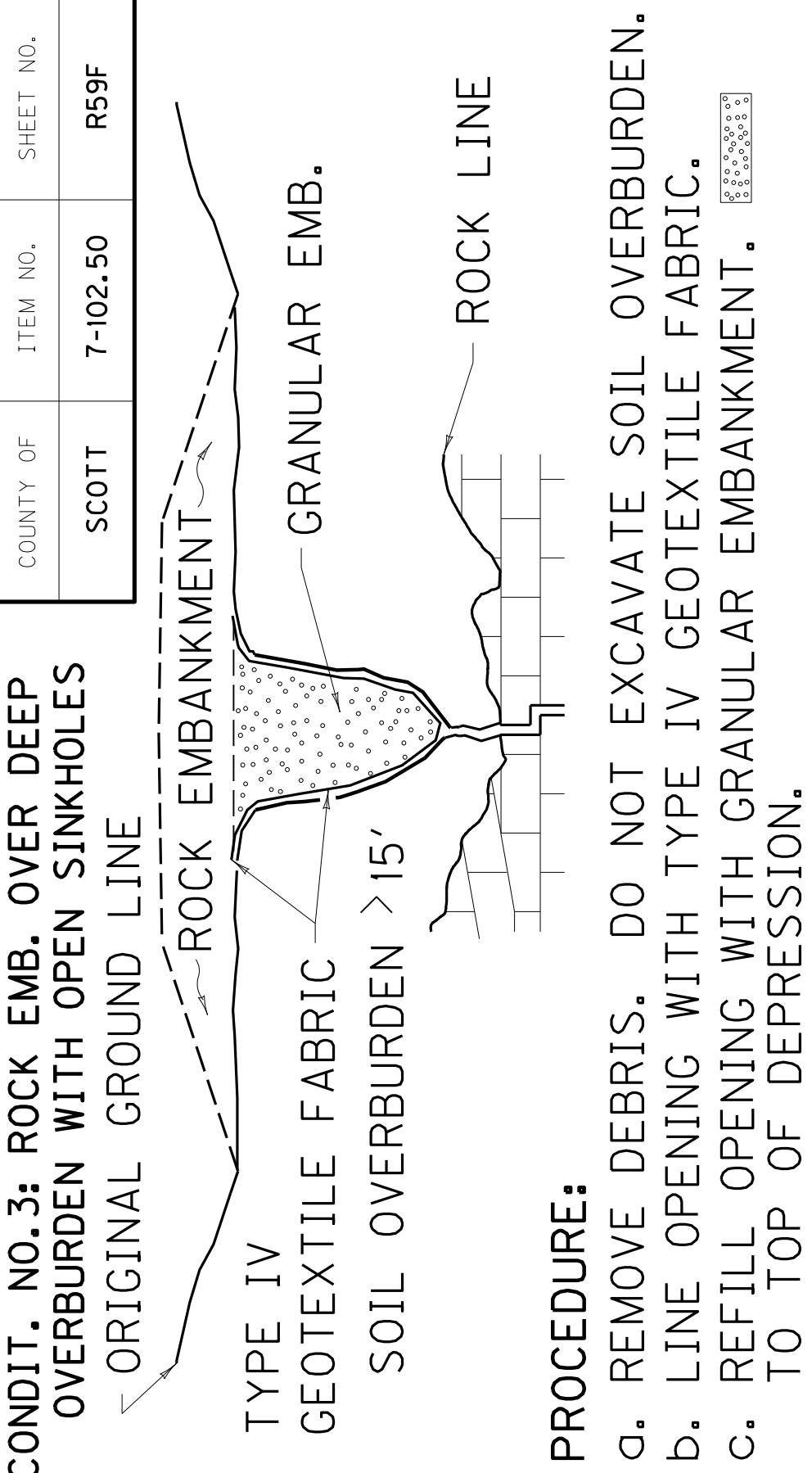
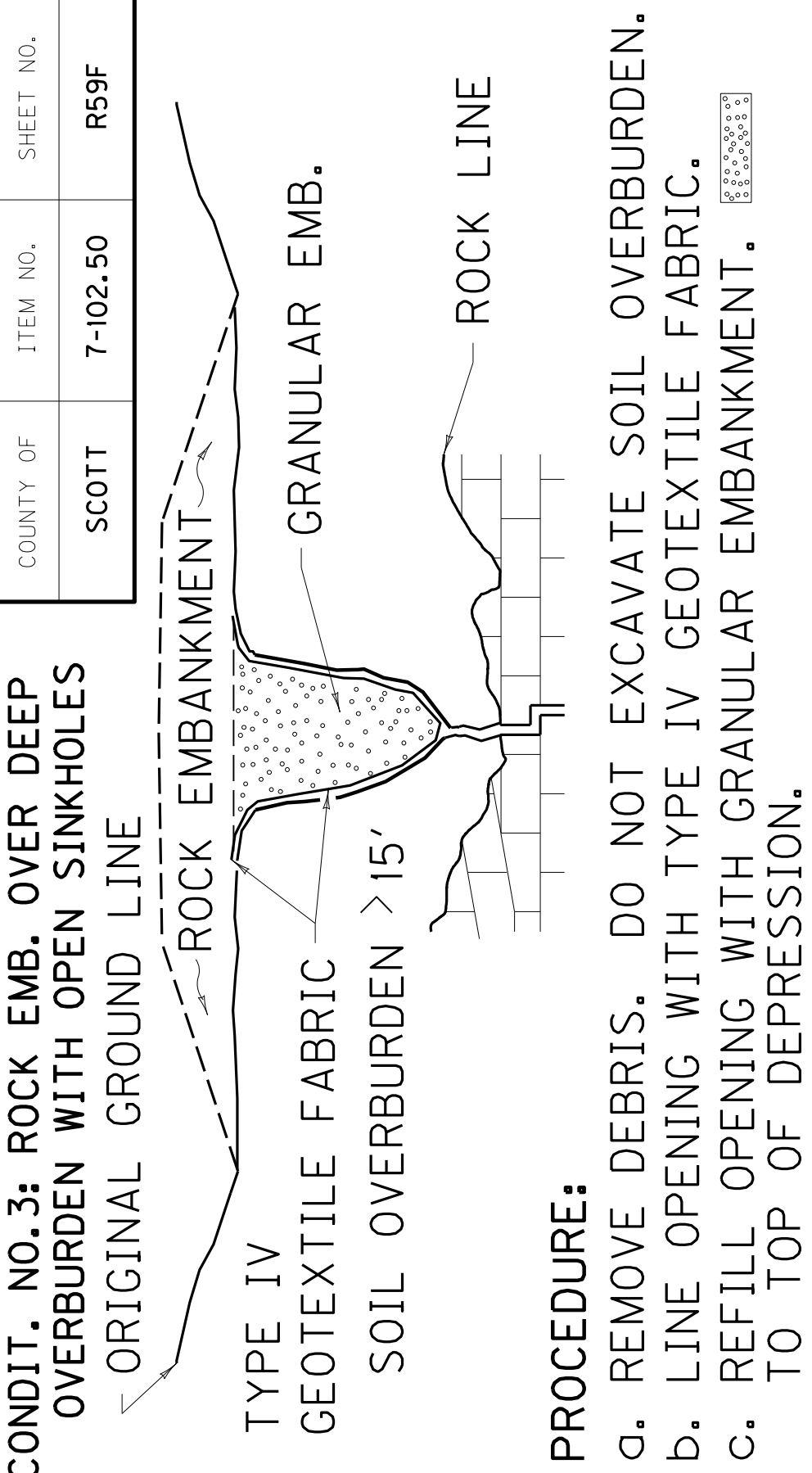
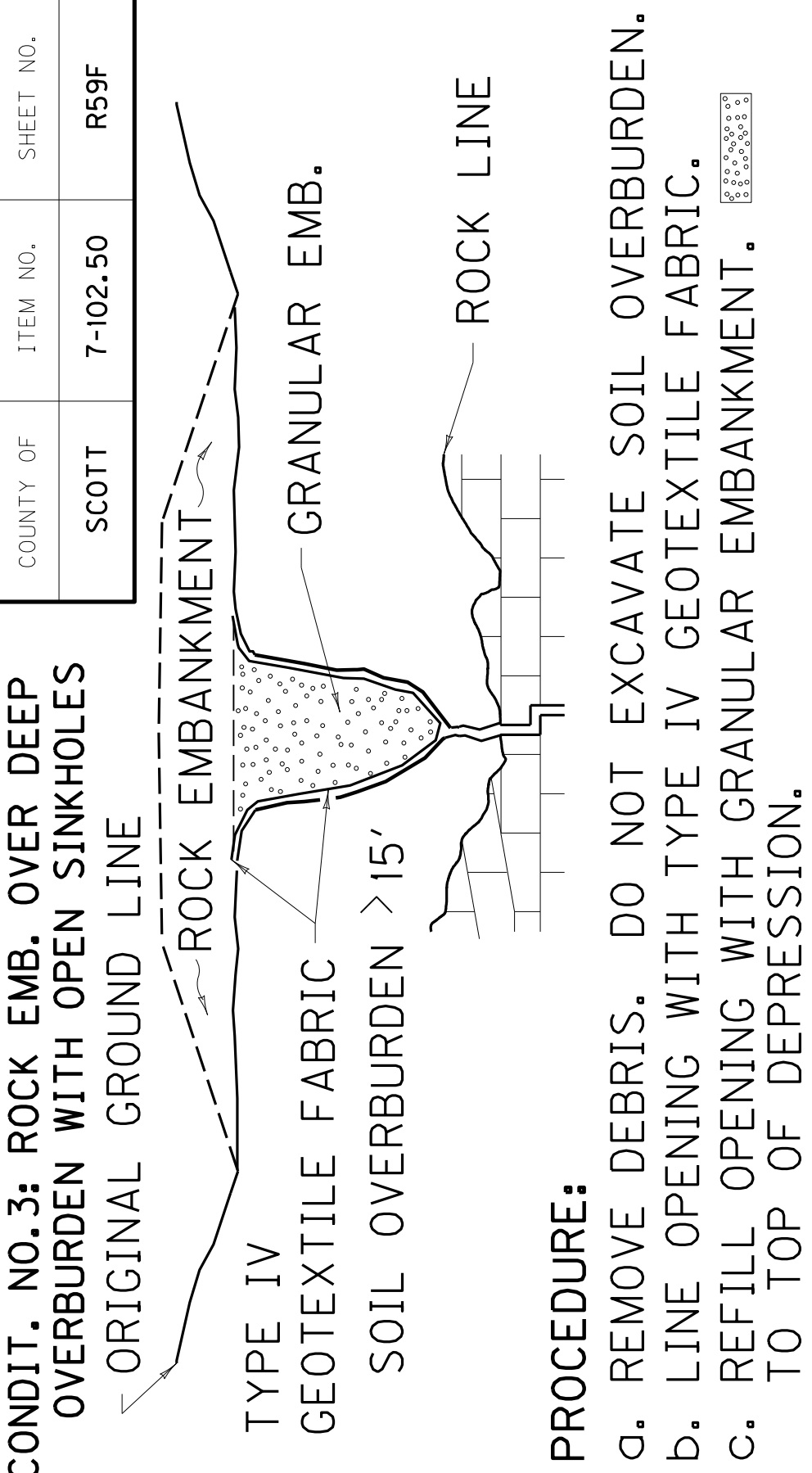
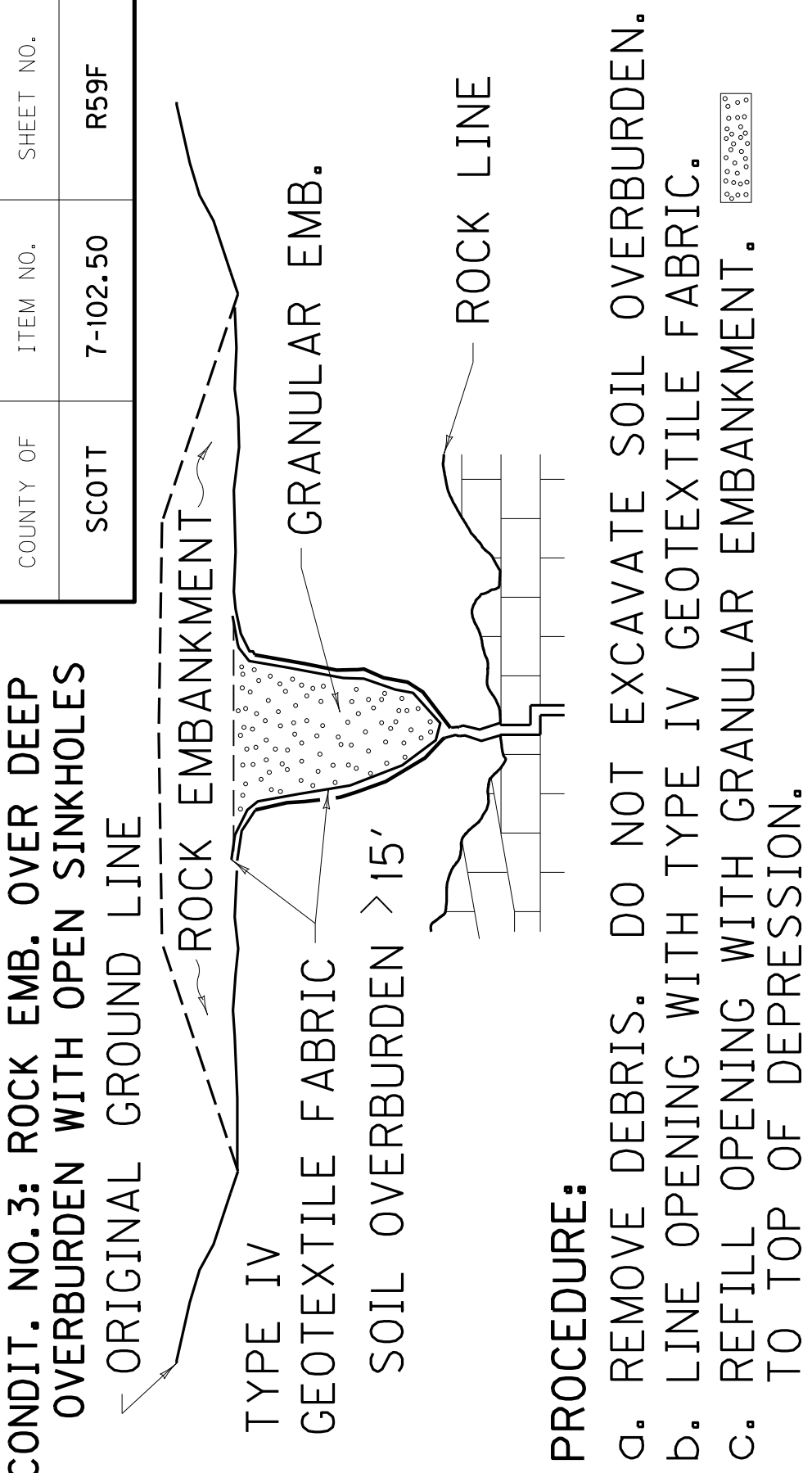
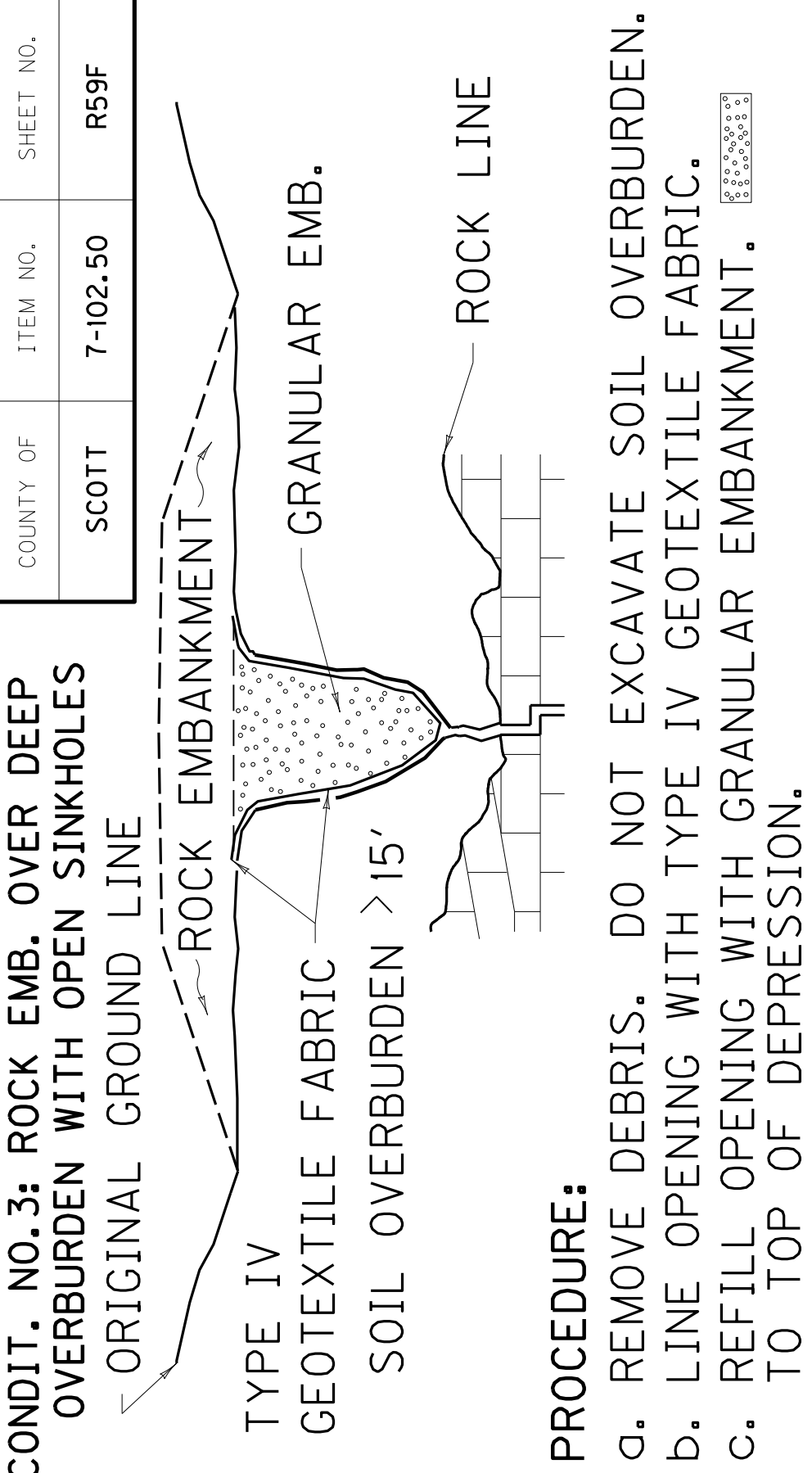
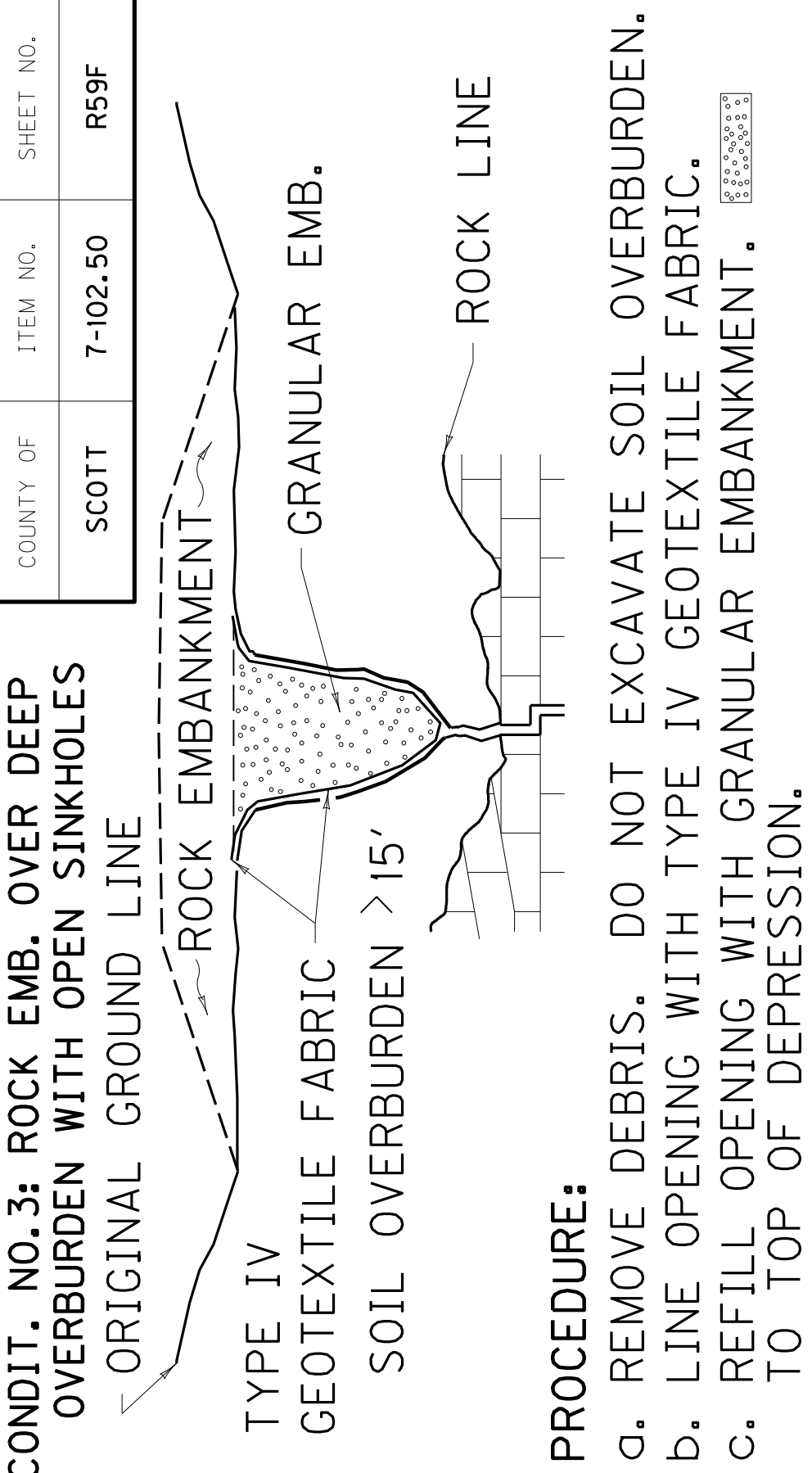
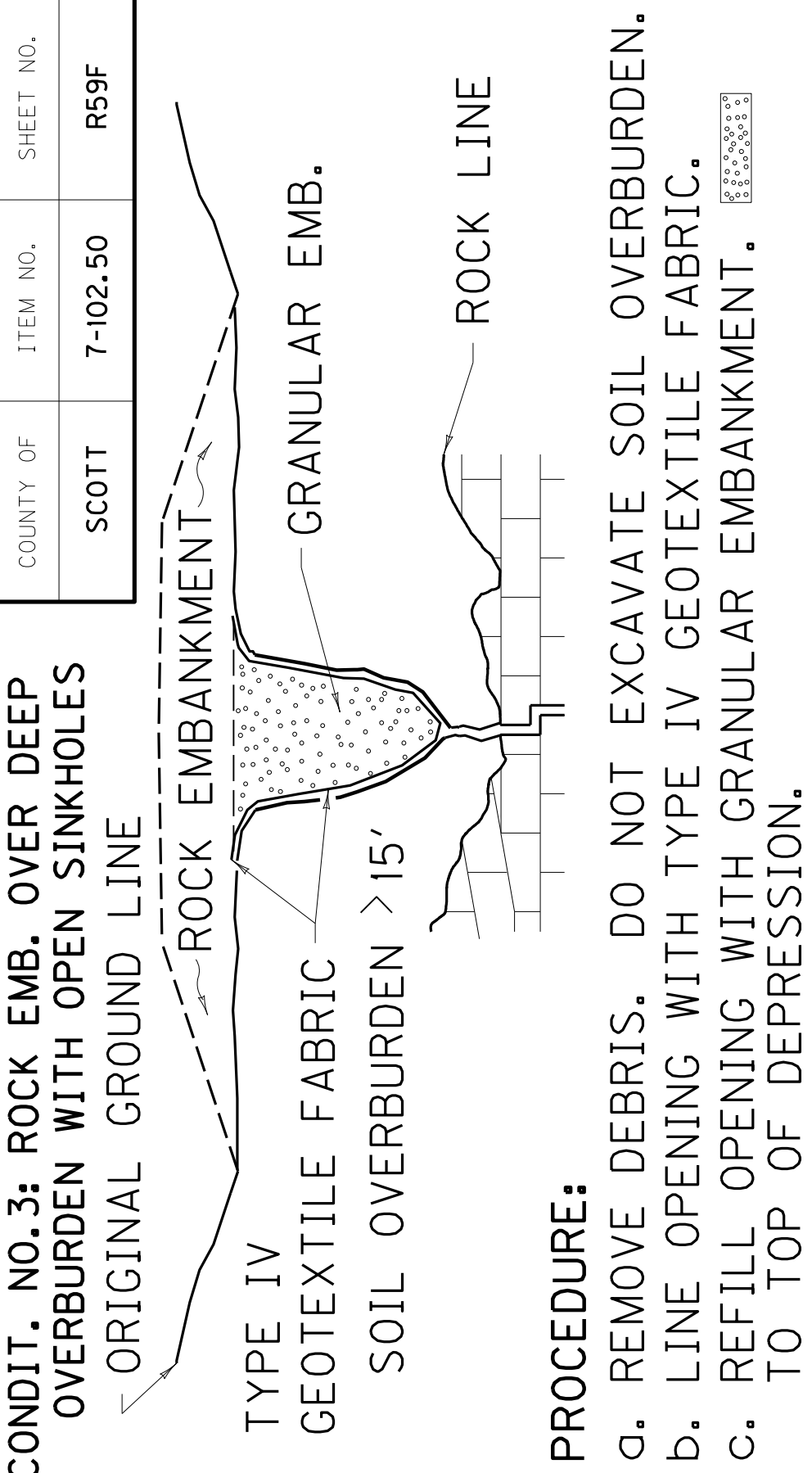
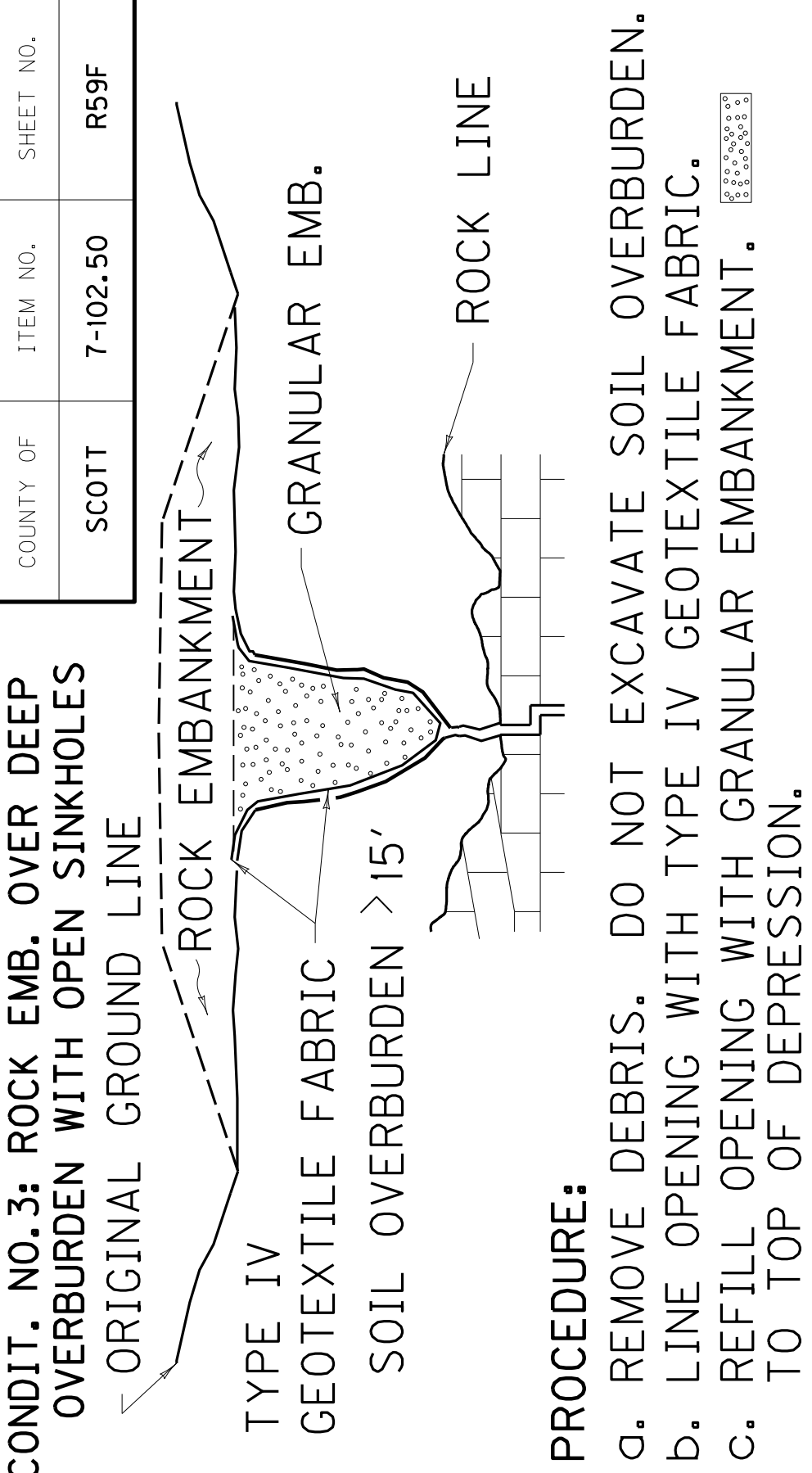
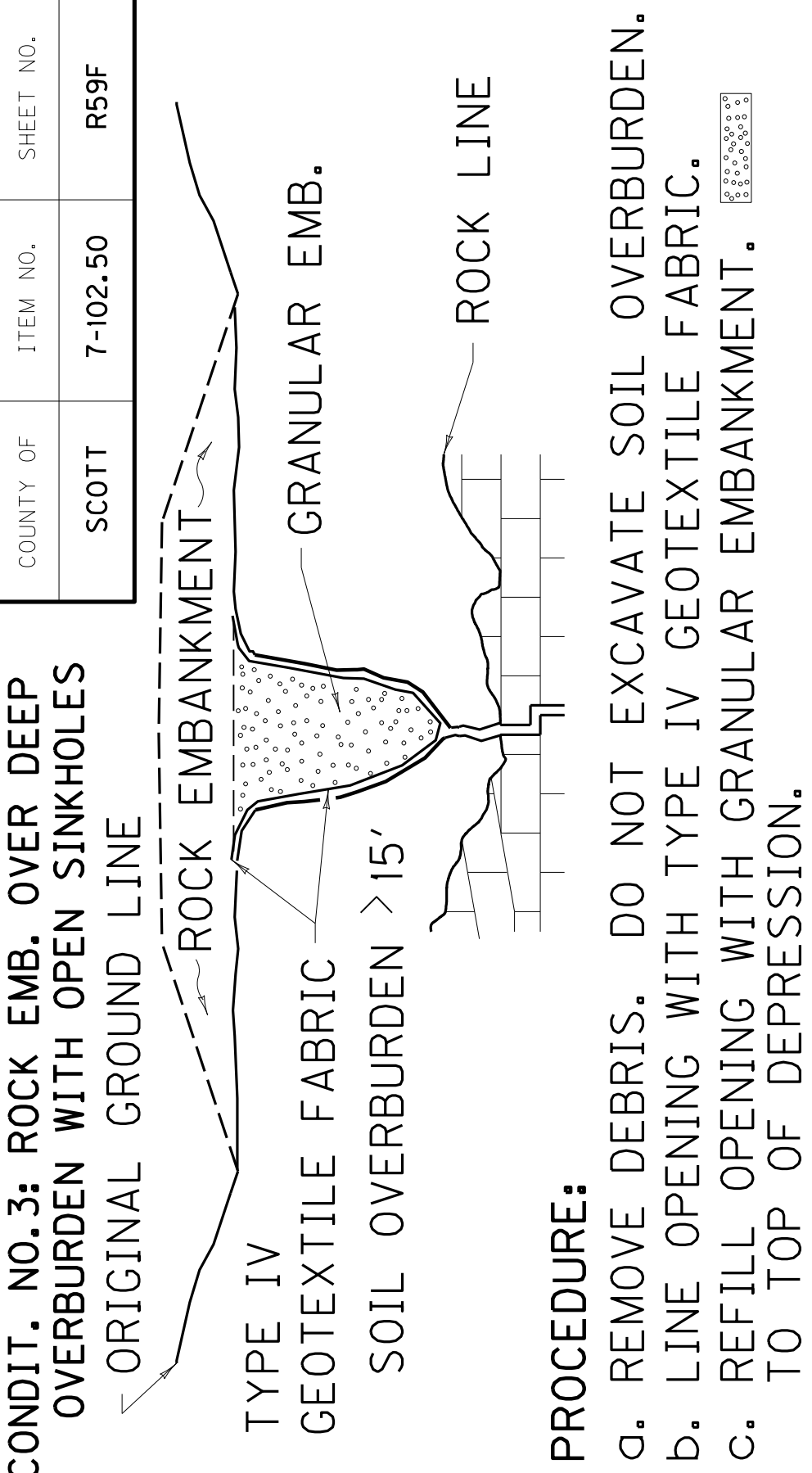
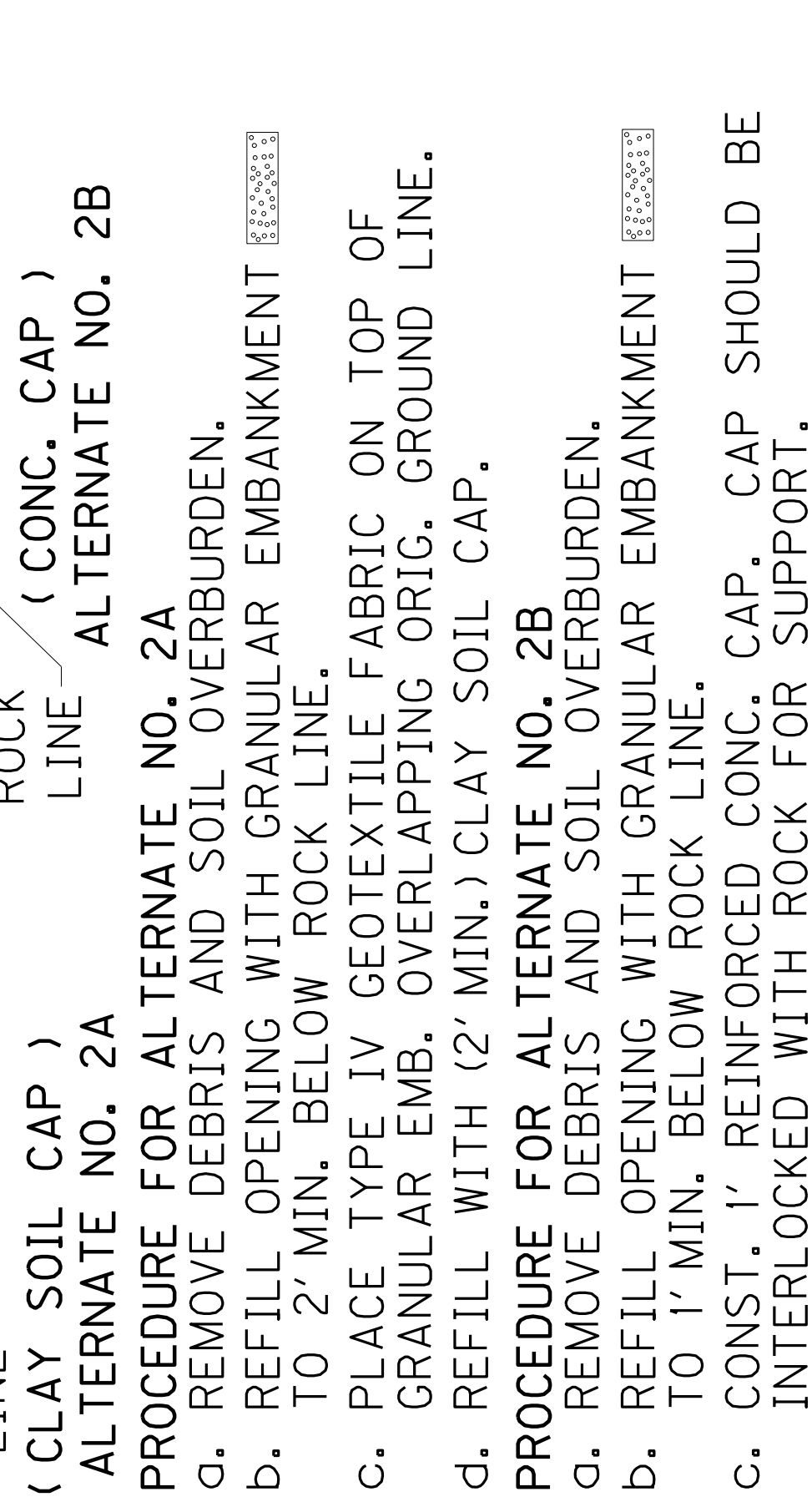
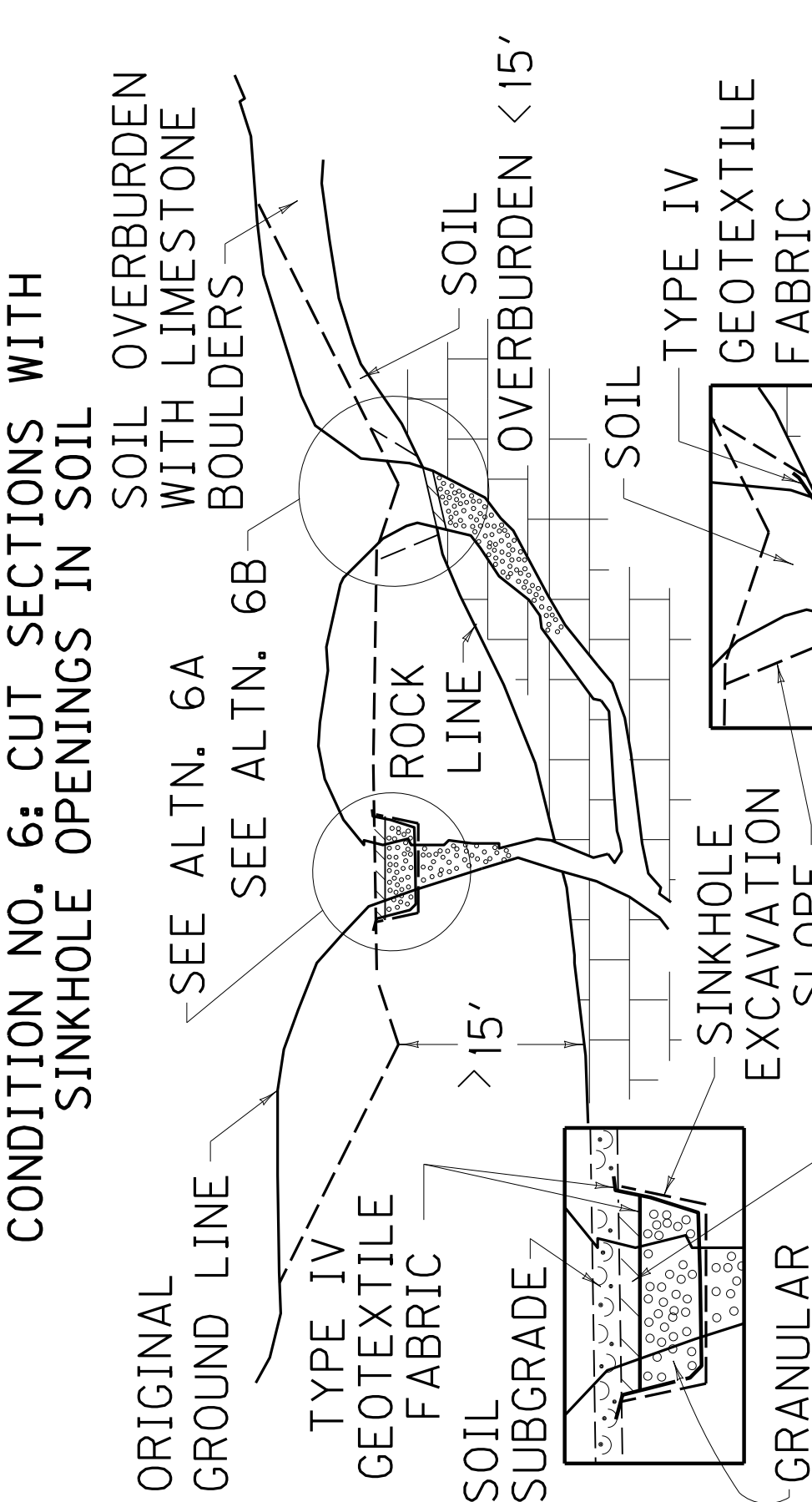
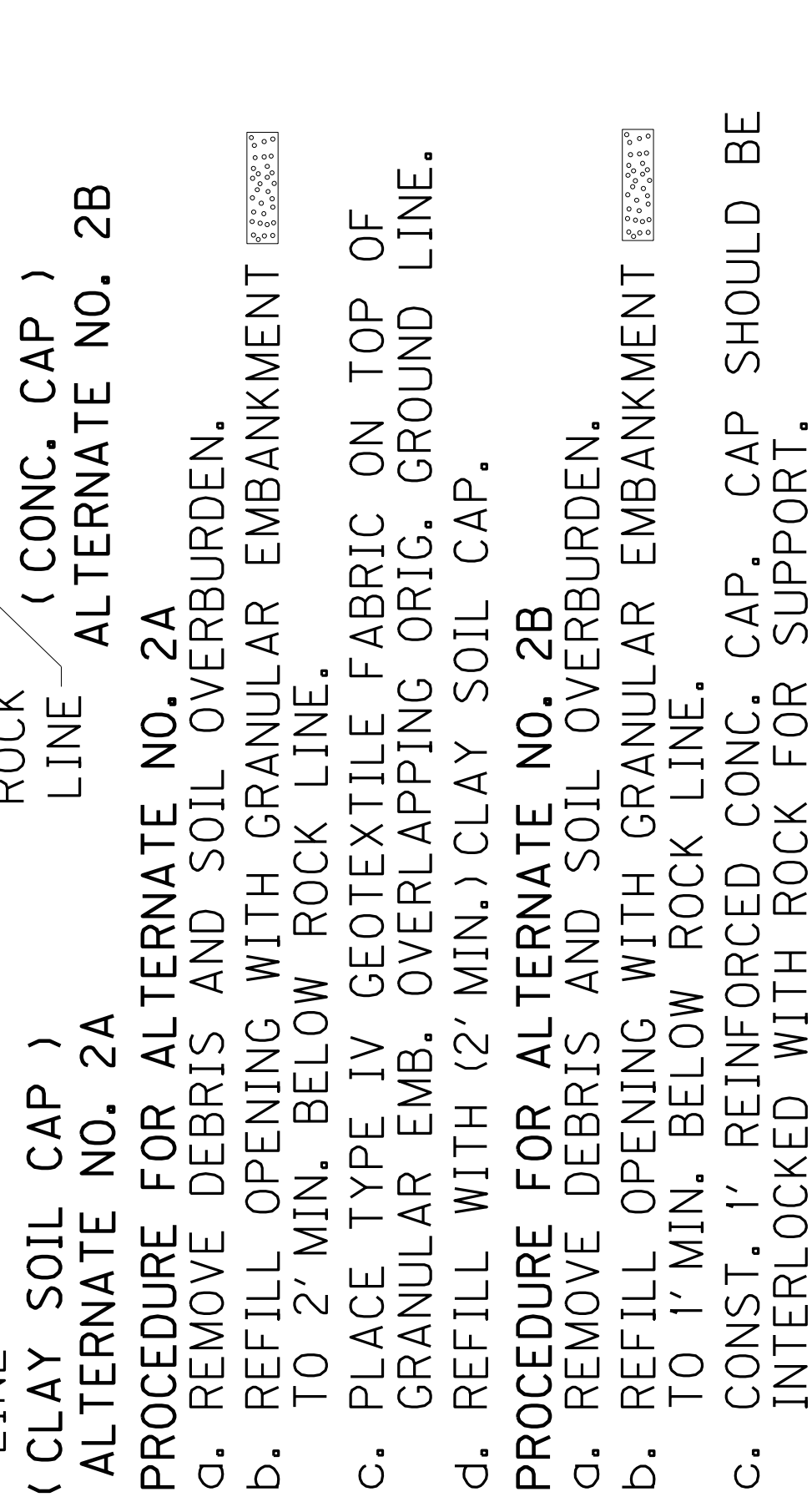
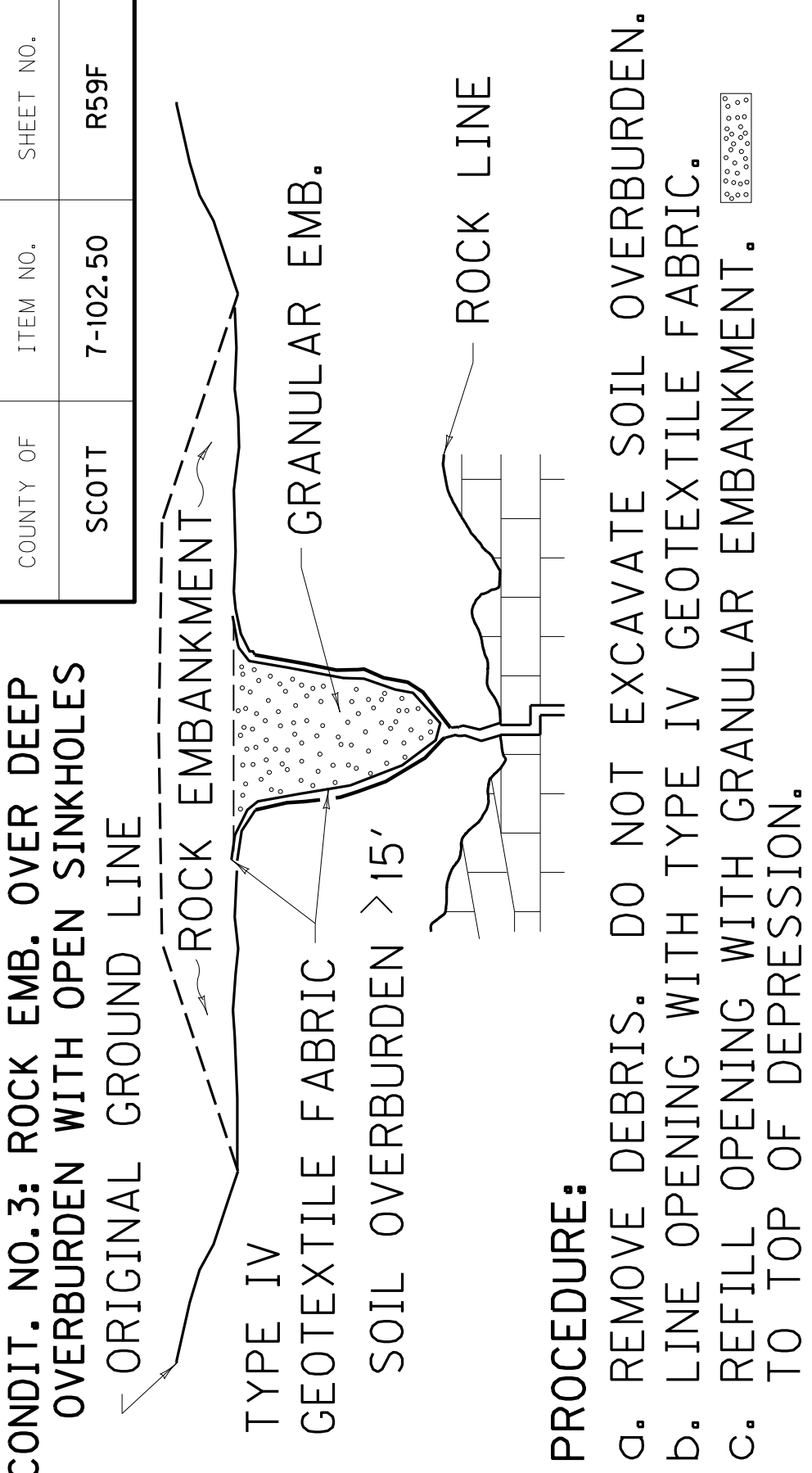
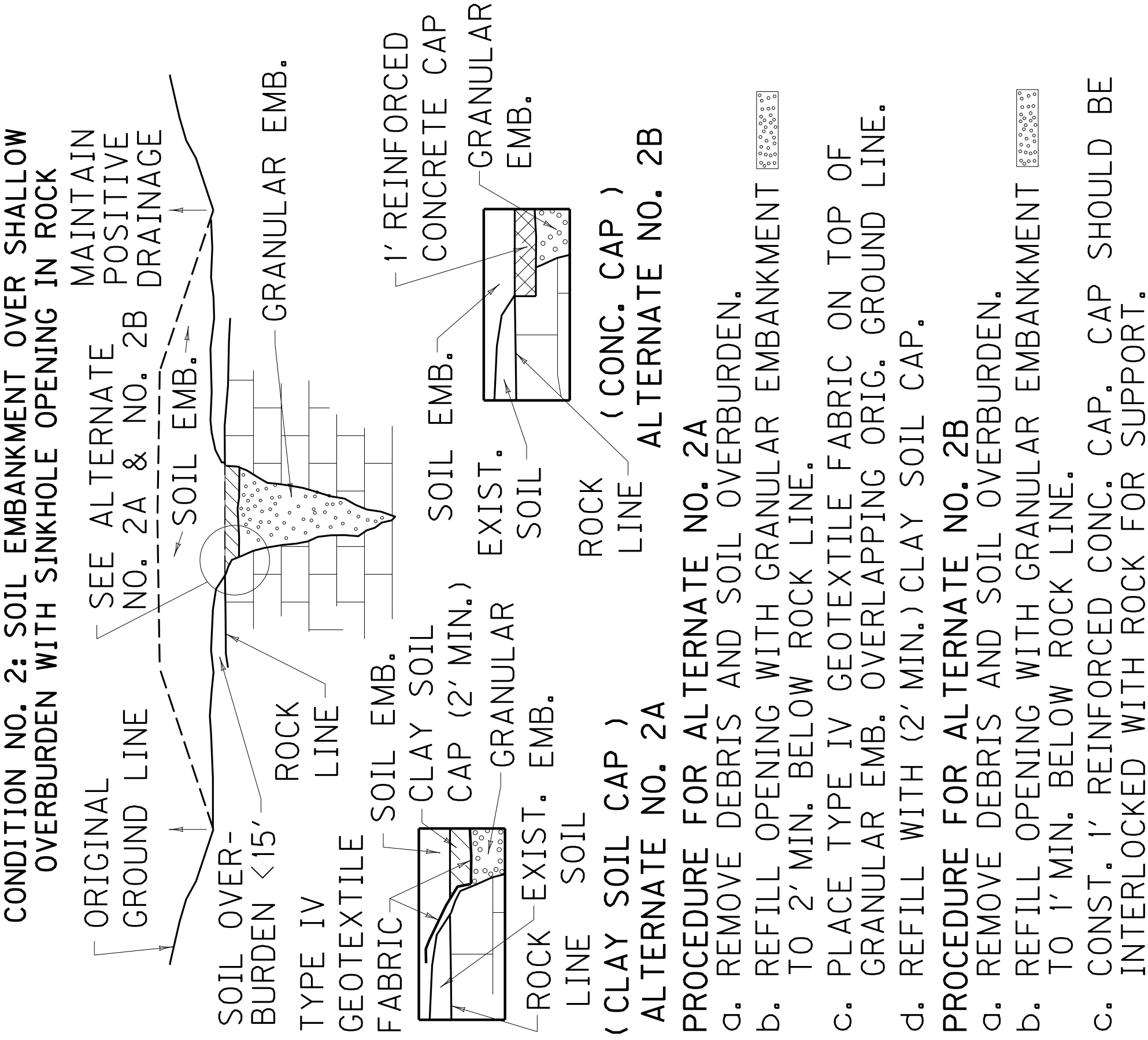
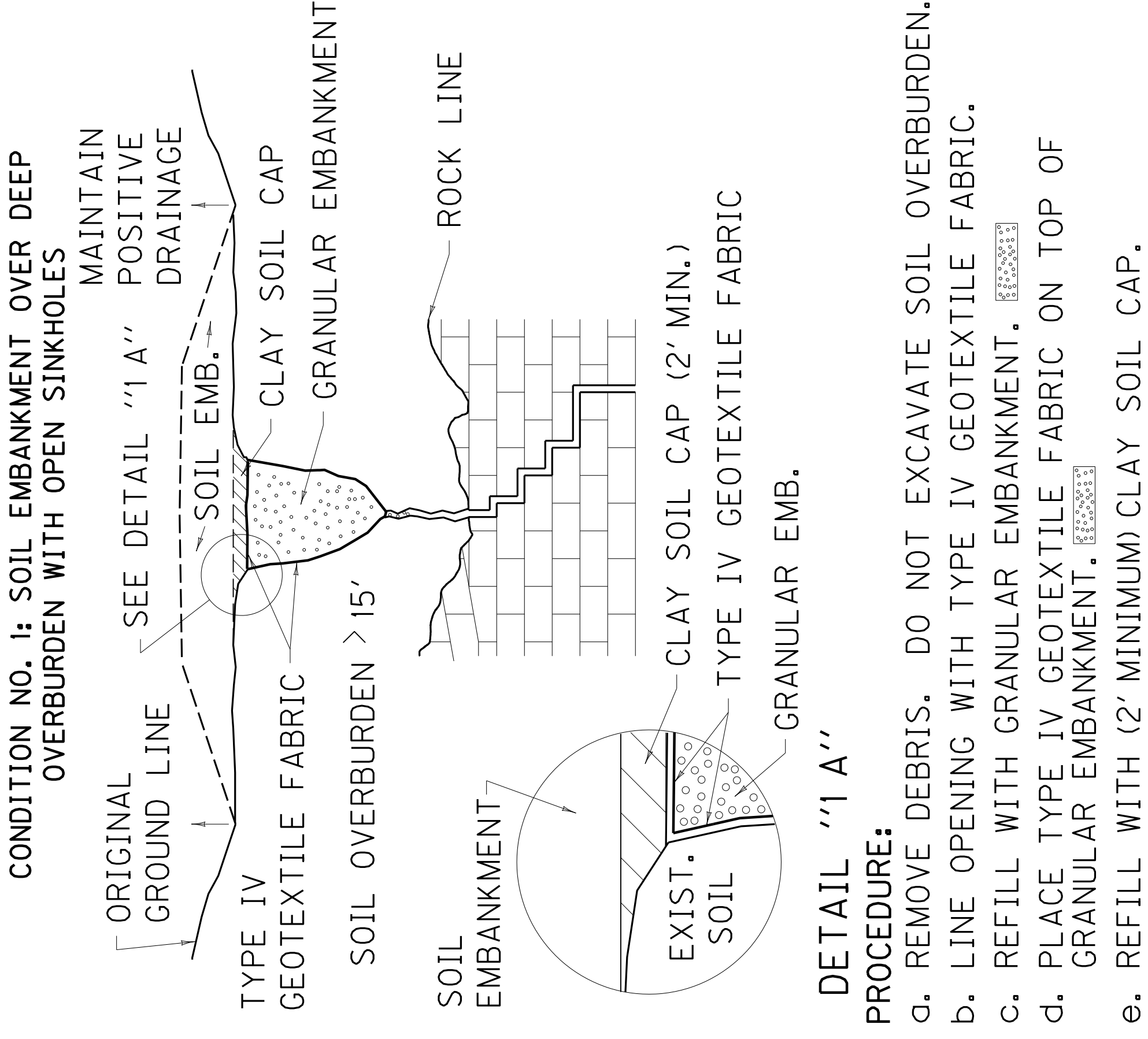
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41,198	ROCK
4,691	DITCH LEFT
4,491	DITCH RIGHT
22,384	TRANS. BENCH
533	INLET/OUTLET DITCHES
393,717	TOTAL EXCAVATION
EMBANKMENT	
286,416	EMB
31,712	REFILL
22,384	TRANS. BENCH
340,512	TOTAL EMBANKMENT

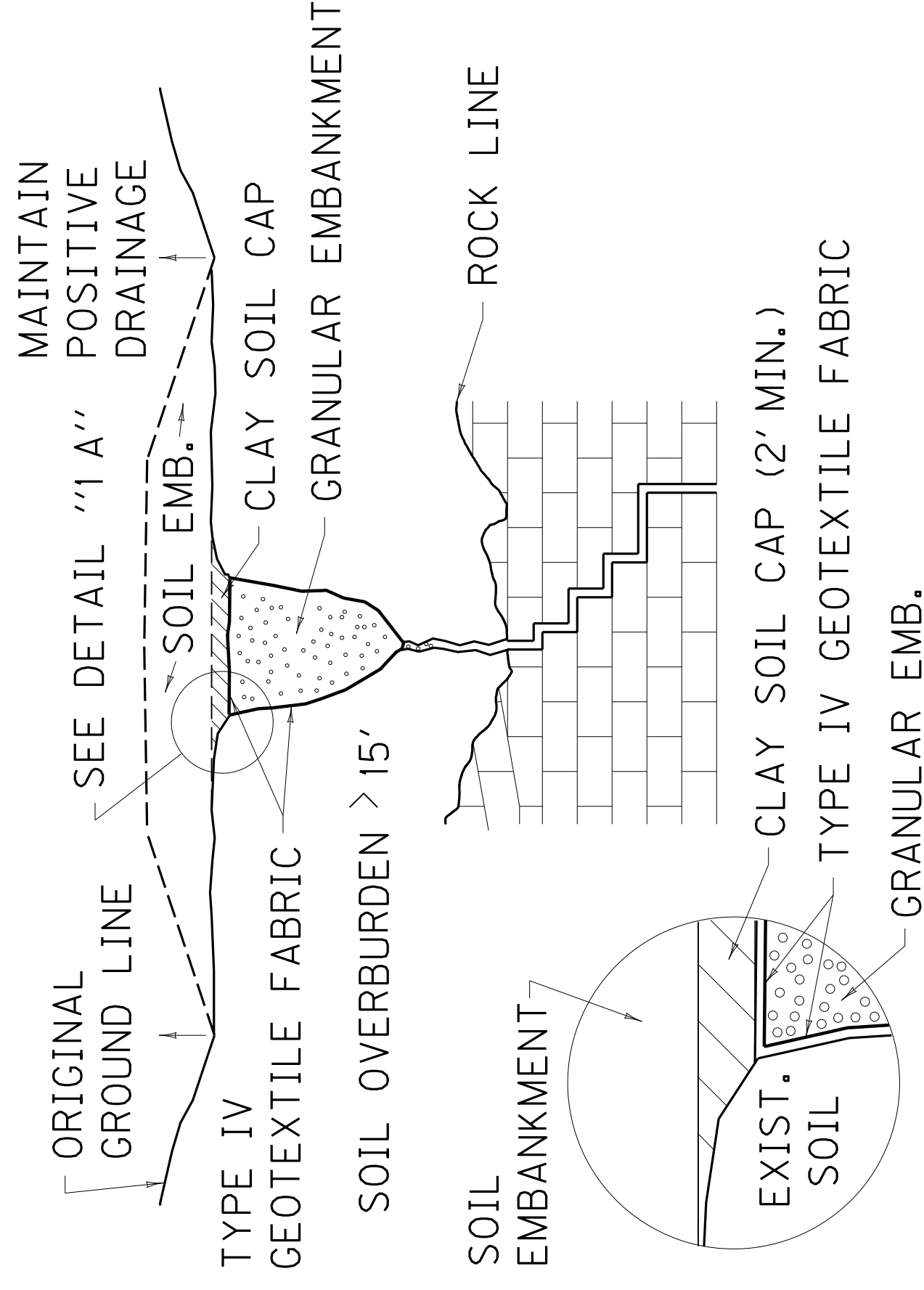
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1830	STANDARD INTEGRAL CURB	LF						470
1875	STANDARD HEADER CURB	LF					226	226
1880	BARRIER HEADER CURB	LF	101					101
1987	DELINEATOR FOR GUARDRAIL - BI-DIRECTIONAL WHITE	EACH	58					58
2014	BARRICADE-TYPE III	EACH	18		2			20
2091	REMOVING PAVEMENT	SY	3640					3640
2159	TEMPORARY DITCH	LF	27500					27500
2200	ROADWAY EXCAVATION	CY						
2223	GRANULAR EMBANKMENT	CY	12500					12500
2242	WATER	M GAL						500
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2360	GUARDRAIL TERMINAL SECTION - NO. 1	EACH	4					4
2391	GUARDRAIL END TREATMENT TY. 4A	EACH	7					7
2381	REMOVE GUARDRAIL	LF	850	150				1000
2429	R/W MONUMENT TYPE 1	EACH	141		11	14		166
2432	WITNESS POST	EACH						3
2471	FILL AND CAP SINKHOLE	EACH	4					4
2483	CHANNEL LINING CLASS II	TONS	3874		21	125	122	6142
2484	CHANNEL LINING CLASS III	TONS	4712					4712
2545	CLEARING AND GRUBBING	LP SUM						1
2562	SIGNS	SO FT						624
2568	MOBILIZATION	LP SUM	1					1
2569	DEMOBILIZATION	LP SUM						1
2585	EDGE KEY	LF	116	94	36	42		288
2596	FABRIC-GEOTEXTILE TYPE I	SY	10932		34	175		11141
2599	FABRIC-GEOTEXTILE TYPE IV	SY	27000					27000
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2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM						1
2651	DIVERSION NO. 1	LP SUM						1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	4					4
2701	TEMPORARY SILT FENCE	LF	27500					27500
2703	SILT TRAP TYPE "A"	EACH	186					186
2704	SILT TRAP TYPE "B"	EACH	186					186
2705	SILT TRAP TYPE "C"	EACH	186					186
2706	CLEAN SILT TRAP TYPE "A"	EACH	558					558
2707	CLEAN SILT TRAP TYPE "B"	EACH	558					558
2708	CLEAN SILT TRAP TYPE "C"	EACH	558					558
2726	STAKING	LP SUM						1
2775	ARROW PANEL	EACH	1					1
3343	STEEL PIPE - 4 INCH	LF	265					265
5950	EROSION CONTROL BLANKET	SY	32201		783	1222		38906
5952	TEMPORARY MULCH	SY	900,240					900240
5953	TEMPORARY SEEDING AND PROTECTION	SY	76591					76591
5963	INITIAL FERTILIZER	TON	9		0.1	0.4		9.5
5964	20-10-10 FERTILIZER	TON	13.21		0.20	0.57		13.98
5985	SEEDING AND PROTECTION	SY	255304		3838	10939		270081
5989	SPECIAL SEEDING CROWN VETCH	SY	34330					34330
5992	AGRICULTURAL LIMESTONE	TON	179.5		2.4	6.8		188.7
6510	PAVE STRIPING-TEMP PAINT - 4 IN	LF						30000
6514	PAVE STRIPING-PERM PAINT - 4 IN	LF	97600	1240	3700	8800		111340
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	80	50	50	80		260
6569	PAVE MARKING-THERMO CROSS HATCH	SO FT	190					190
6574	PAVE MARKING-THERMO CURV ARROW	EACH	40	2		13		55

GENERAL SUMMARY



New sheet

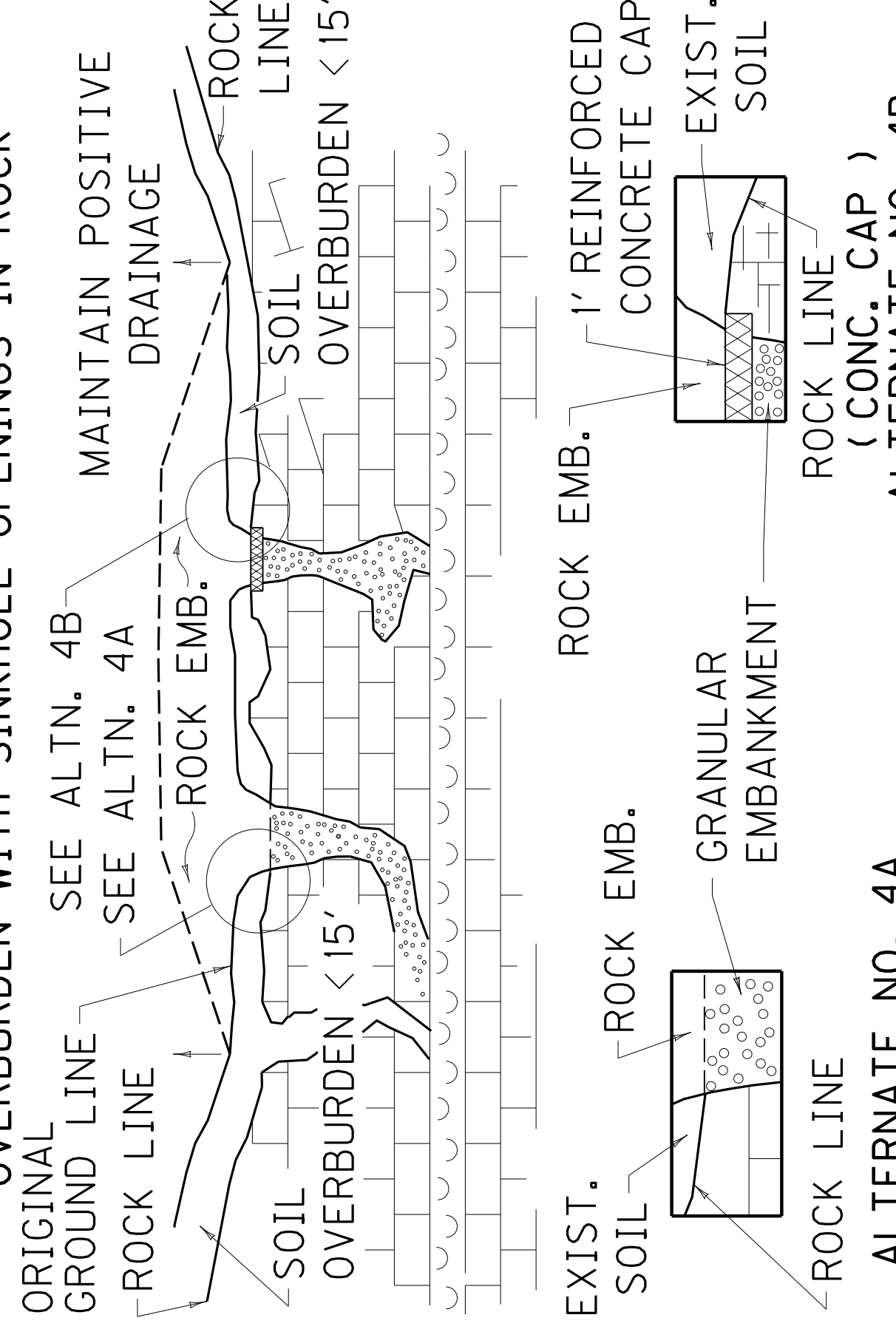
CONDITION NO. 1: SOIL EMBANKMENT OVER DEEP OVERBURDEN WITH OPEN SINKHOLES



DETAIL "1 A"

- PROCEDURE:**
- REMOVE DEBRIS. DO NOT EXCAVATE SOIL OVERBURDEN.
 - LINE OPENING WITH TYPE IV GEOTEXTILE FABRIC.
 - REFILL WITH GRANULAR EMBANKMENT.
 - PLACE TYPE IV GEOTEXTILE FABRIC ON TOP OF GRANULAR EMBANKMENT.
 - REFILL WITH (2' MINIMUM) CLAY SOIL CAP.

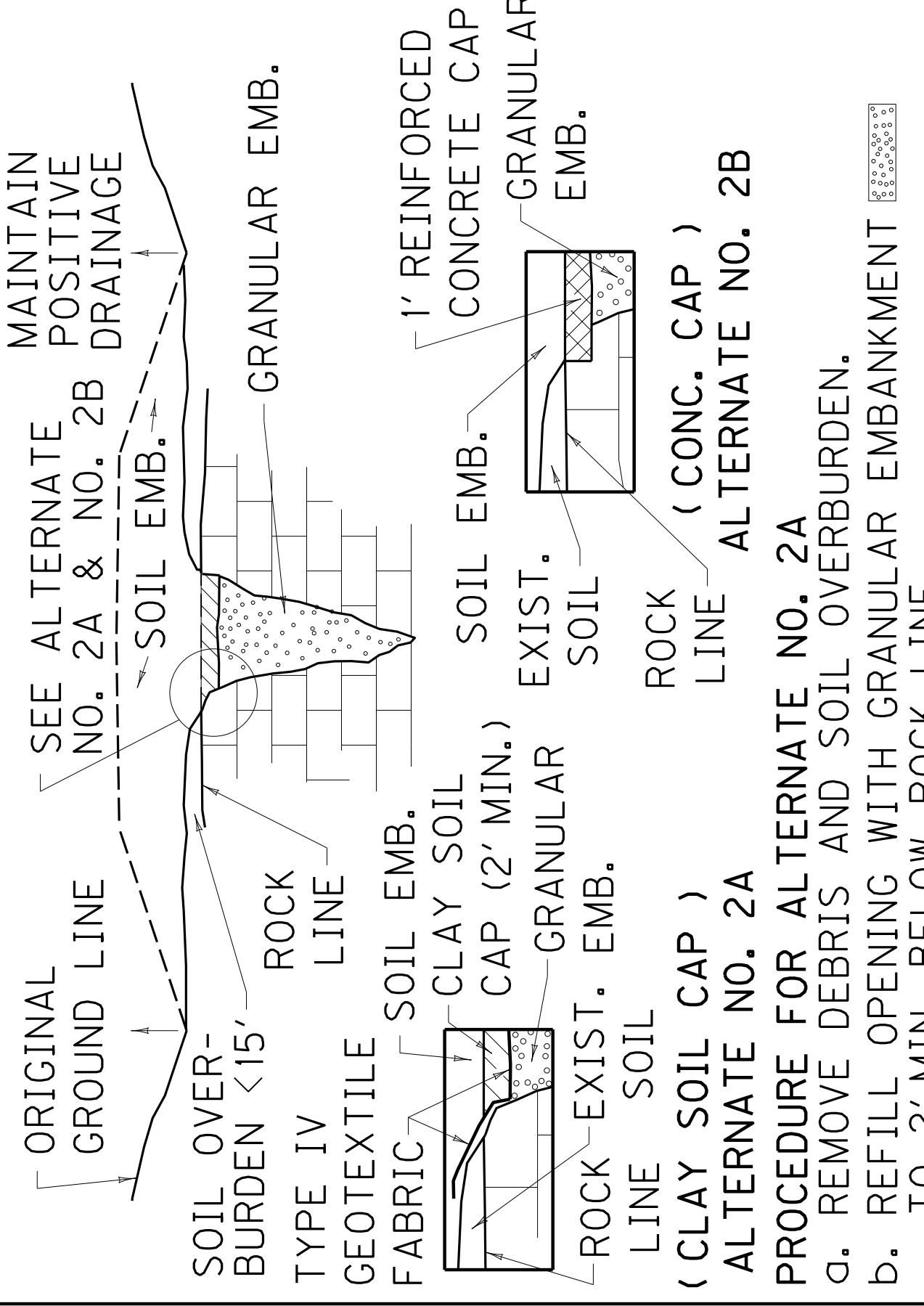
CONDITION NO. 4: ROCK EMBANKMENT OVER SHALLOW OVERBURDEN WITH SINKHOLE OPENINGS IN ROCK



ALTERNATE NO. 4A

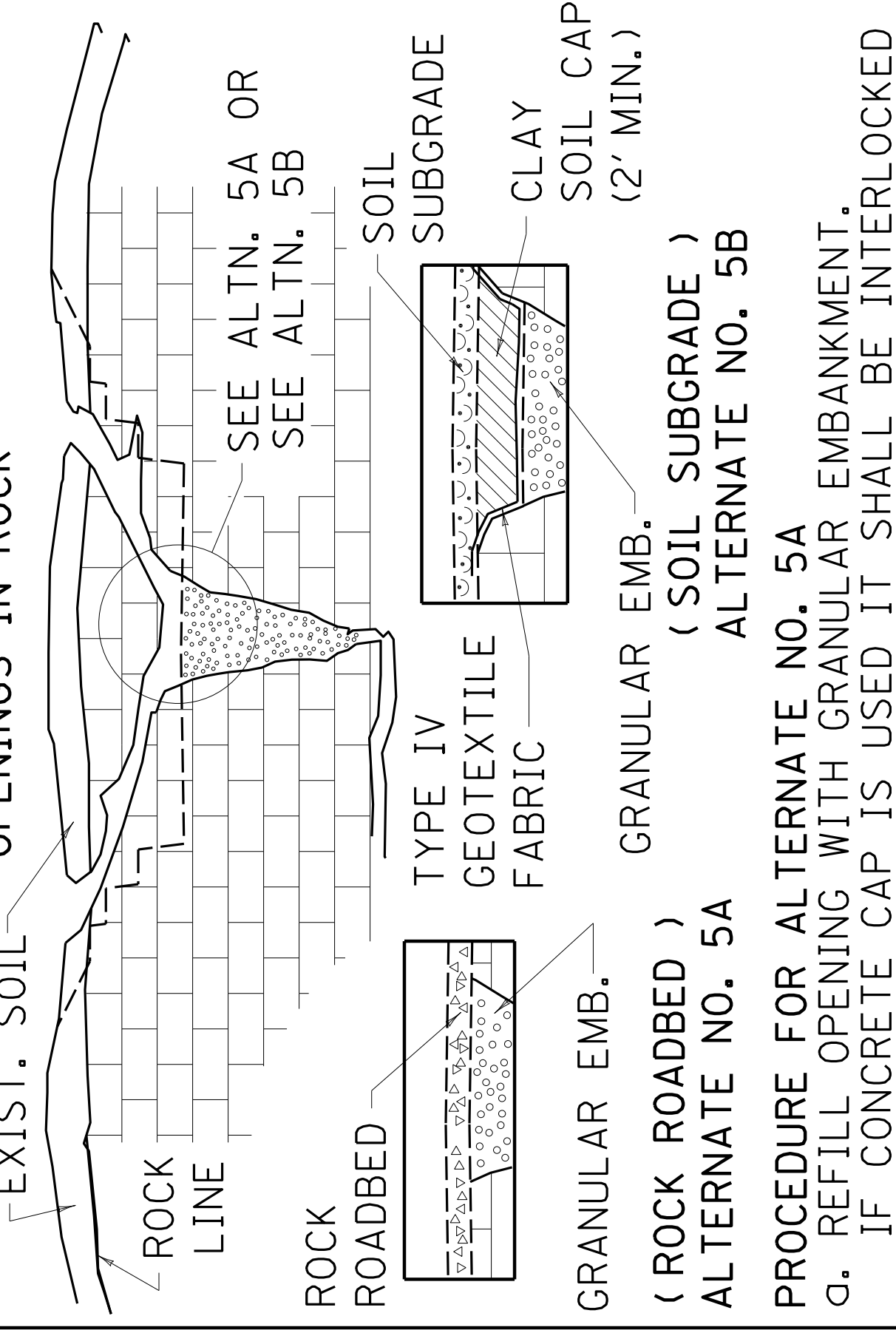
- PROCEDURE FOR ALTERNATE NO. 4A**
- REMOVE DEBRIS AND SOIL OVERBURDEN.
 - REFILL OPENING TO ROCK LINE WITH GRANULAR EMBANKMENT.
- PROCEDURE FOR ALTERNATE NO. 4B**
- REMOVE DEBRIS AND SOIL OVERBURDEN.
 - REFILL OPENING WITH GRANULAR EMBANKMENT TO 1' MIN. BELOW ROCK LINE.
 - CONST. 1' REINFORCED CONC. CAP. CAP SHOULD BE INTERLOCKED WITH ROCK FOR SUPPORT.

CONDITION NO. 2: SOIL EMBANKMENT OVER SHALLOW OVERBURDEN WITH SINKHOLE OPENING IN ROCK



- PROCEDURE FOR ALTERNATE NO. 2A**
- REMOVE DEBRIS AND SOIL OVERBURDEN.
 - REFILL OPENING WITH GRANULAR EMBANKMENT TO 2' MIN. BELOW ROCK LINE.
 - PLACE TYPE IV GEOTEXTILE FABRIC ON TOP OF GRANULAR EMB. OVERLAPPING ORIG. GROUND LINE.
 - REFILL WITH (2' MIN.) CLAY SOIL CAP.
- PROCEDURE FOR ALTERNATE NO. 2B**
- REMOVE DEBRIS AND SOIL OVERBURDEN.
 - REFILL OPENING WITH GRANULAR EMBANKMENT TO 1' MIN. BELOW ROCK LINE.
 - CONST. 1' REINFORCED CONC. CAP. CAP SHOULD BE INTERLOCKED WITH ROCK FOR SUPPORT.

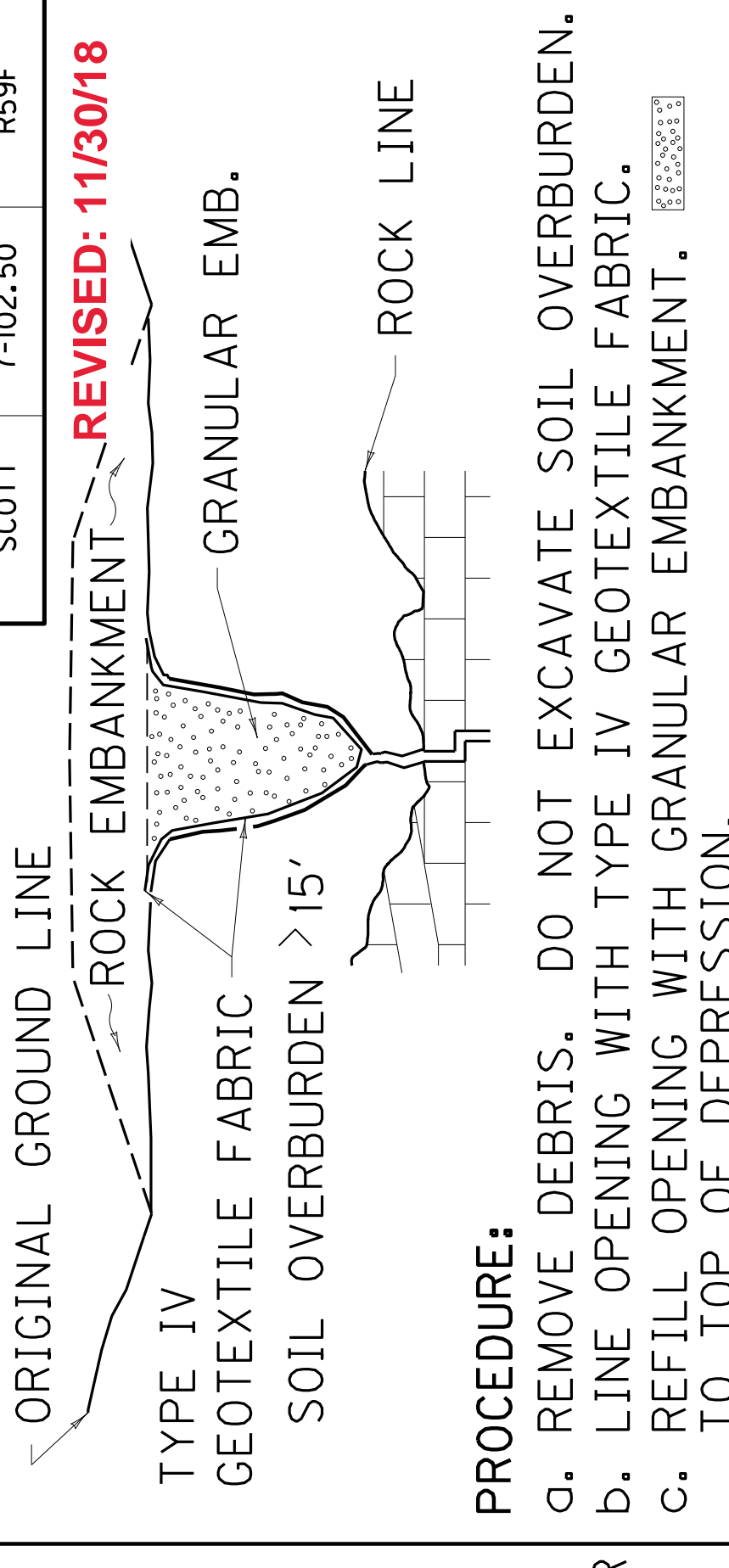
CONDITION NO. 5: CUT SECTIONS WITH SINKHOLE OPENINGS IN ROCK



ALTERNATE NO. 5A

- PROCEDURE FOR ALTERNATE NO. 5A**
- REFILL OPENING WITH GRANULAR EMBANKMENT. IF CONCRETE CAP IS USED IT SHALL BE INTERLOCKED WITH THE BEDROCK FOR SUPPORT AS DETAILED IN CONDITION NO. 2 ALTERNATE NO. 2B.
- PROCEDURE FOR ALTERNATE NO. 5B**
- REFILL OPENING WITH GRANULAR EMBANKMENT TO 2' MINIMUM BELOW SOIL SUBGRADE.
 - PLACE TYPE IV GEOTEXTILE FABRIC OVER GRANULAR EMBANKMENT.
 - REFILL WITH (2' MIN.) CLAY SOIL CAP. IF CONCRETE CAP IS USED THE FABRIC SHALL BE OMITTED AND CAP SHALL BE INTERLOCKED WITH THE BEDROCK FOR SUPPORT AS DETAILED IN COND. NO. 2 ALTERNATE NO. 2B.

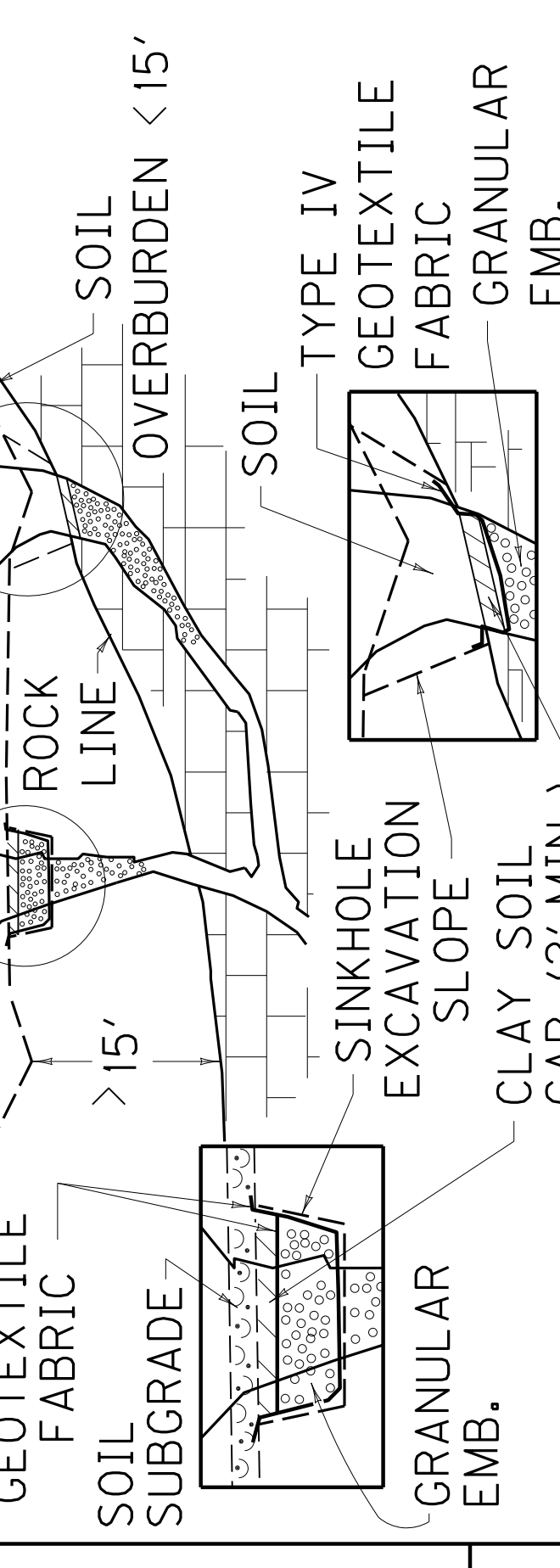
CONDIT. NO. 3: ROCK EMB. OVER DEEP OVERBURDEN WITH OPEN SINKHOLES



PROCEDURE:

- REMOVE DEBRIS. DO NOT EXCAVATE SOIL OVERBURDEN.
- LINE OPENING WITH TYPE IV GEOTEXTILE FABRIC.
- REFILL OPENING WITH GRANULAR EMBANKMENT TO TOP OF DEPRESSION.

CONDITION NO. 6: CUT SECTIONS WITH SINKHOLE OPENINGS IN SOIL



ALTN. 6A

- ALTERNATE NO. 6A SOIL OVERBURDEN GREATER THAN 15'**
- REMOVE DEBRIS. DO NOT EXCAVATE SOIL OVERBURDEN.
 - LINE OPENING WITH TYPE IV GEOTEXTILE FABRIC.
 - REFILL WITH GRANULAR EMB.
 - PLACE TYPE IV GEOTEXTILE FABRIC OVER GRANULAR EMBANKMENT OVERLAPPING ORIG. GROUND LINE.
 - REFILL WITH (2' MIN.) CLAY SOIL CAP. IF ROCK SUBGRADE IS USED OMIT SOIL CAP AND FABRIC UNDERLYING SOIL CAP.
- ALTERNATE NO. 6B SOIL OVERBURDEN LESS THAN 15'**
- REMOVE DEBRIS AND SOIL OVERBURDEN.
 - REFILL OPENING WITH GRANULAR EMBANKMENT TO 2' MIN. BELOW ROCK LINE.
 - PLACE TYPE IV GEOTEXTILE FABRIC OVER GRANULAR EMB. OVERLAPPING ORIG. GROUND LINE.
 - REFILL WITH (2' MIN.) CLAY SOIL CAP. IF CONCRETE CAP IS USED THE FABRIC SHALL BE OMITTED AND CAP SHALL BE INTERLOCKED WITH THE BEDROCK FOR SUPPORT AS DETAILED IN COND. NO. 2 ALTERNATE NO. 2B.

REVISED: 11/30/18

FILE NAME: F:\WORK\SCOTT\VDGN\SEPIA5\SEPIA 001.DGN

USFR: Andy
DATE PLOTTED: November 29, 2018

E-SHEET NAME: Power InRoads v8.11.9.137

