TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION

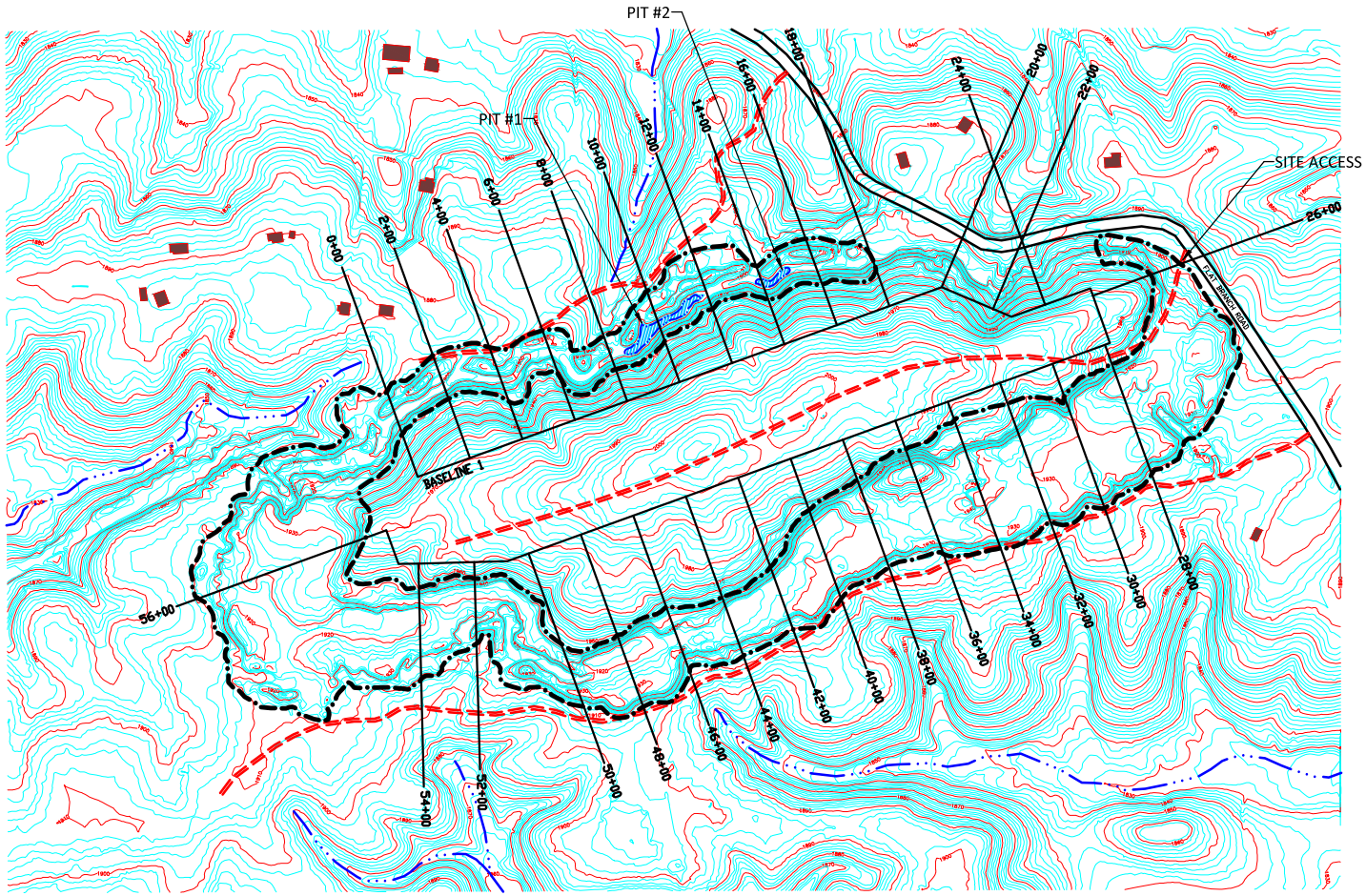
LAND RECLAMATION SECTION

CONSTRUCTION PLANS

BRUSHY RIDGE

RECLAMATION PROJECT

GRUNDY & MARION COUNTIES, TENNESSEE



NOTES:

1. ALL CLEARING DEBRIS SHALL BE DISPOSED OF BY BURYING, WINDROWING, AND/OR PILING AND BURNING
2. WATER IN PITS SHALL BE TESTED AND TREATED TO ENSURE COMPLIANCE AND THEN BE DEWATERED BY PUMPING OR DRAINING IN ACCORDANCE WITH SECTION 214.03 BEFORE BACKFILLING OPERATIONS BEGIN
3. HIGHWALLS SHALL BE BACKFILLED TO THE SLOPES AS SHOWN ON SHEETS 3 - 5 OF THE DRAWINGS
4. GRADING SHALL PROVIDE POSITIVE DRAINAGE AND ELIMINATE ALL DEPRESSIONS THAT WILL HOLD WATER
5. HIGHWALLS SHALL NOT BE BROKEN DOWN DURING GRADING
6. STRAW WATTLES SHALL BE INSTALLED AT THE TOE OF THE BACKFILLED SLOPE AND ANY OTHER PLACES AS NEEDED FOR SEDIMENT CONTROL
7. RIP-RAP CHANNELS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN, ADDITIONAL RIP-RAP CHANNELS MAY BE REQUIRED
8. ROCK IN RIP-RAP CHANNELS SHALL BE A MIXTURE OF CLEAN CLASS-A AND CLASS-B LIMESTONE
9. ANOXIC LIMESTONE DRAINS SHALL BE CONSTRUCTED BEFORE BACKFILLING OPERATIONS
10. ALL LIMESTONE IN RIP-RAP CHANNELS AND ALD'S SHALL BE HIGH CALCIUM LIMESTONE
11. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE TO THE SPECIFICATIONS IN SECTION 801.0

ESTIMATED GRADE WORK QUANTITIES

BRUSHY RIDGE SITE	46.8	ACRES
SAMS BRANCH SITE	18.4	ACRES
TOTAL	65.2	ACRES

ESTIMATED CUT/FILL QUANTITIES

BRUSHY RIDGE SITE	260,000 CUT	240,000 FILL
SAMS BRANCH SITE	110,000 CUT	110,000 FILL
TOTAL	370,000 CUT	350,000 FILL

ESTIMATED WATER-FILLED PIT QUANTITIES

PIT #1	260,000 GAL
PIT #2	50,000 GAL
PIT #3	670,000 GAL
PIT #4	300,000 GAL

* ALL WATER PITS SHALL BE TESTED TO INSURE THEY ARE IN COMPLIANCE BEFORE DEWATERING CAN BEGIN
* THE CONTRACTOR IS TO SUBMIT THE ANALYTICAL RESULTS WITH THEIR PLAN OF TREATMENT PRIOR TO STARTING DEWATERING
* WATER IN PITS 1 AND 2 SHALL BE ABSORBED DURING BACKFILLING, UNLESS CONDITIONS CHANGE BEFORE DEWATERING OPERATIONS

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- TRAIL
- COUNTY ROAD

BRUSHY RIDGE RECLAMATION PROJECT

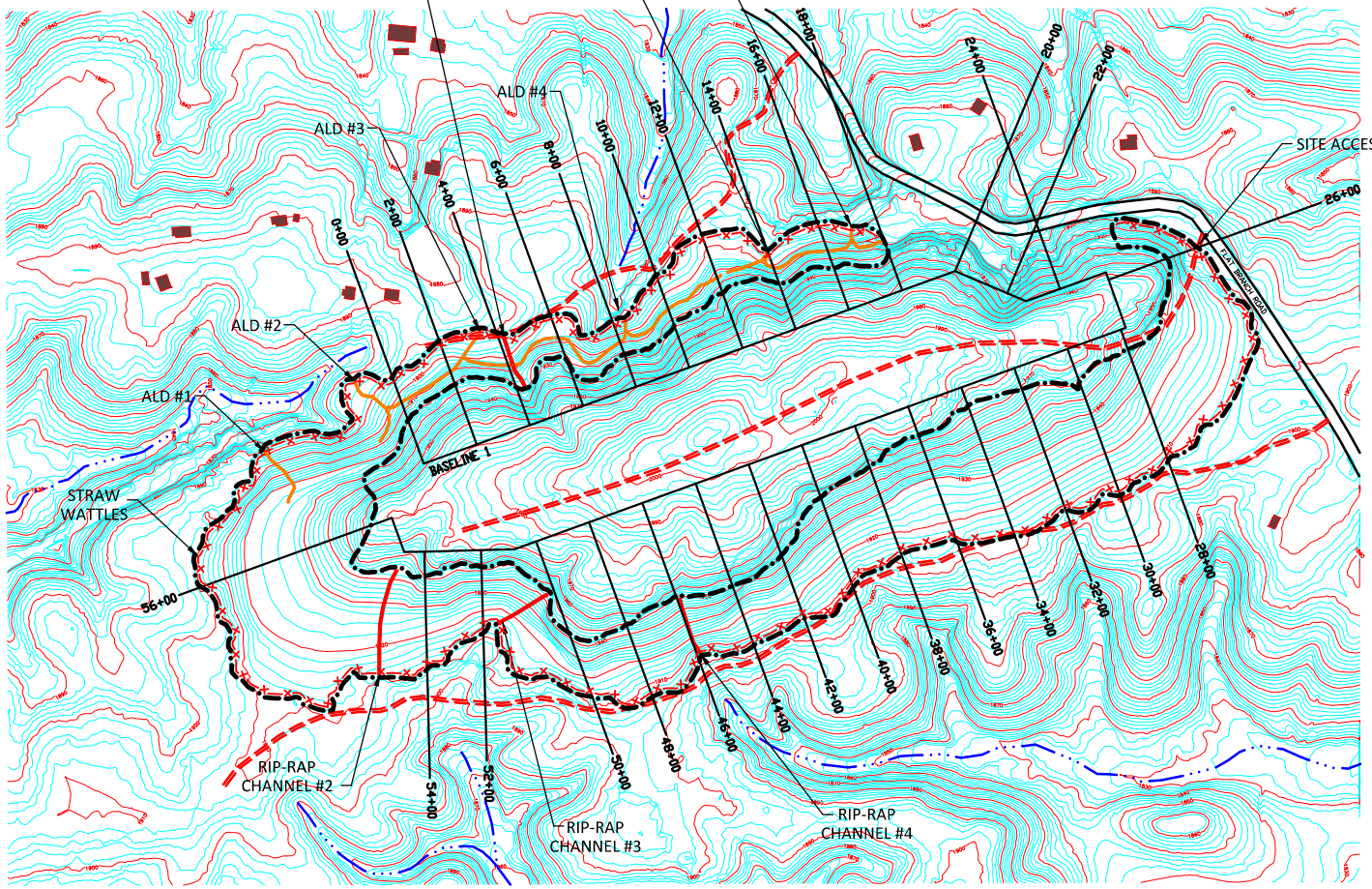
BRUSHY RIDGE SITE

PLAN VIEW

SCALE 1"=200'

0 200 400 600

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	BRUSHY RIDGE - PLAN VIEW		
	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 4/6/2021
	CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 200'	SHEET 1 OF 10



NOTES:

1. ALL CLEARING DEBRIS SHALL BE DISPOSED OF BY BURYING, WINDROWING, AND/OR PILING AND BURNING
2. WATER IN PITS SHALL BE TESTED AND TREATED TO ENSURE COMPLIANCE AND THEN BE DEWATERED BY PUMPING OR DRAINING IN ACCORDANCE WITH SECTION 214.03 BEFORE BACKFILLING OPERATIONS BEGIN
3. HIGHWALLS SHALL BE BACKFILLED TO THE SLOPES AS SHOWN ON SHEETS 3 - 5 OF THE DRAWINGS
4. GRADING SHALL PROVIDE POSITIVE DRAINAGE AND ELIMINATE ALL DEPRESSIONS THAT WILL HOLD WATER
5. HIGHWALLS SHALL NOT BE BROKEN DOWN DURING GRADING
6. STRAW WATTLES SHALL BE INSTALLED AT THE TOE OF THE BACKFILLED SLOPE AND ANY OTHER PLACES AS NEEDED FOR SEDIMENT CONTROL
7. RIP-RAP CHANNELS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN, ADDITIONAL RIP-RAP CHANNELS MAY BE REQUIRED
8. ROCK IN RIP-RAP CHANNELS SHALL BE A MIXTURE OF CLEAN CLASS-A AND CLASS-B LIMESTONE
9. ANOXIC LIMESTONE DRAINS SHALL BE CONSTRUCTED BEFORE BACKFILLING OPERATIONS
10. ALL LIMESTONE IN RIP-RAP CHANNELS AND ALD'S SHALL BE HIGH CALCIUM LIMESTONE
11. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE TO THE SPECIFICATIONS IN SECTION 801.0

ESTIMATED GRADE WORK QUANTITIES

BRUSHY RIDGE SITE	46.8	ACRES
SAMS BRANCH SITE	18.4	ACRES
TOTAL	65.2	ACRES

ESTIMATED CUT/FILL QUANTITIES

BRUSHY RIDGE SITE	260,000 CUT	240,000 FILL
SAMS BRANCH SITE	110,000 CUT	110,000 FILL
TOTAL	370,000 CUT	350,000 FILL

ESTIMATED WATER-FILLED PIT QUANTITIES

PIT #1	260,000 GAL
PIT #2	50,000 GAL
PIT #3	670,000 GAL
PIT #4	300,000 GAL

* ALL WATER PITS SHALL BE TESTED TO INSURE THEY ARE IN COMPLIANCE BEFORE DEWATERING CAN BEGIN
* THE CONTRACTOR IS TO SUBMIT THE ANALYTICAL RESULTS WITH THEIR PLAN OF TREATMENT PRIOR TO STARTING DEWATERING
* WATER IN PITS 1 AND 2 SHALL BE ABSORBED DURING BACKFILLING, UNLESS CONDITIONS CHANGE BEFORE DEWATERING OPERATIONS

MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- TRAIL
- COUNTY ROAD

BRUSHY RIDGE RECLAMATION PROJECT

BRUSHY RIDGE SITE

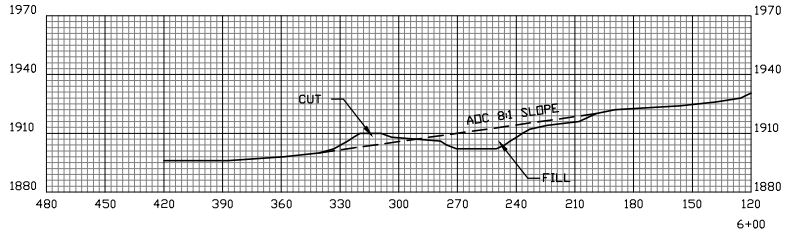
FINAL VIEW

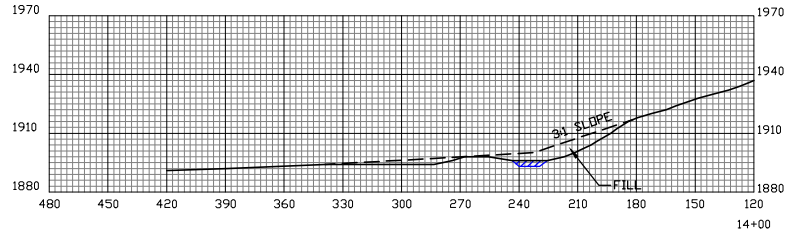
SCALE 1"=200'

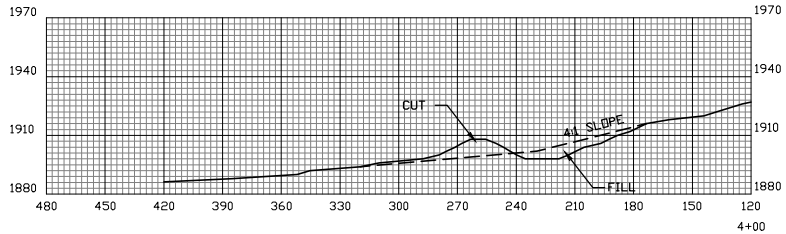
0 200 400 600

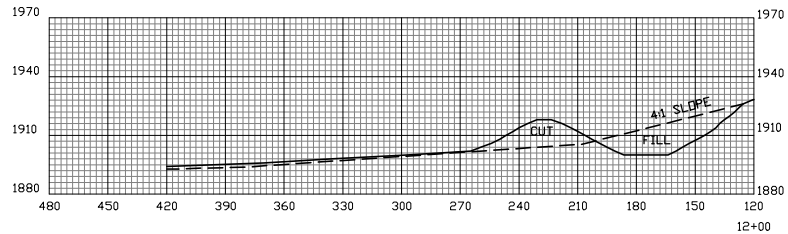
AGENCY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT
	BRUSHY RIDGE- FINAL VIEW

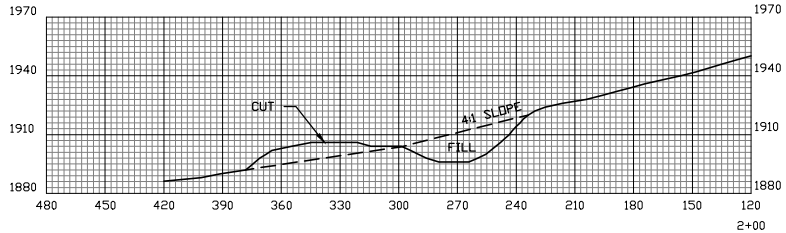
DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 4/6/2021
CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 200'	SHEET 2 OF 10

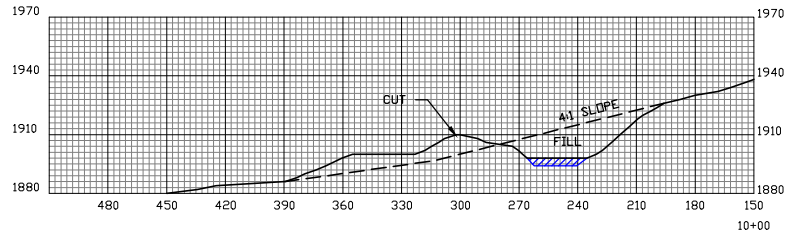


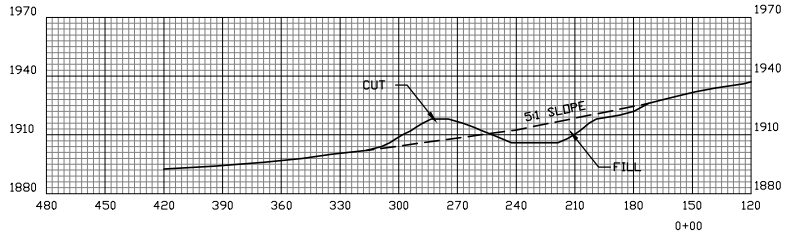


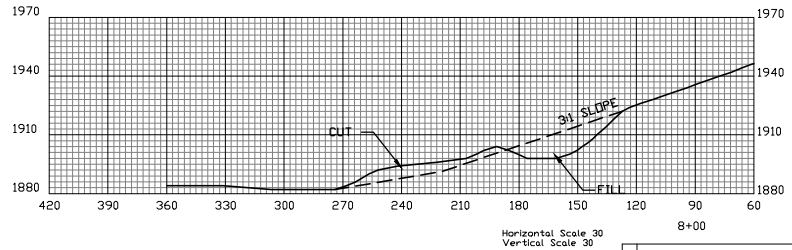












LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- GRASSED WATERWAY
- WATER

BRUSHY RIDGE

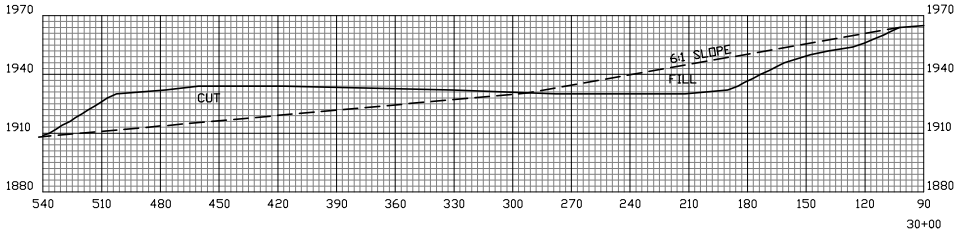
BRUSHY RIDGE SITE

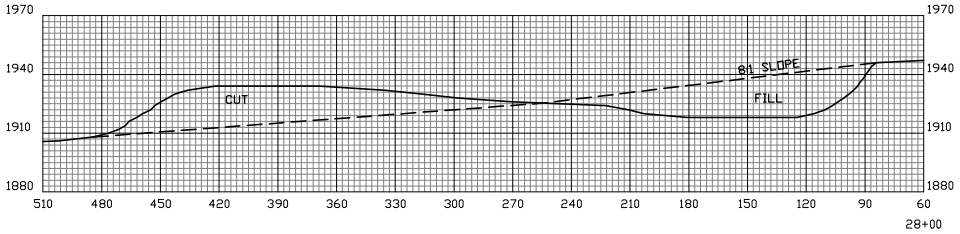
BASELINE 1 - CROSS SECTIONS

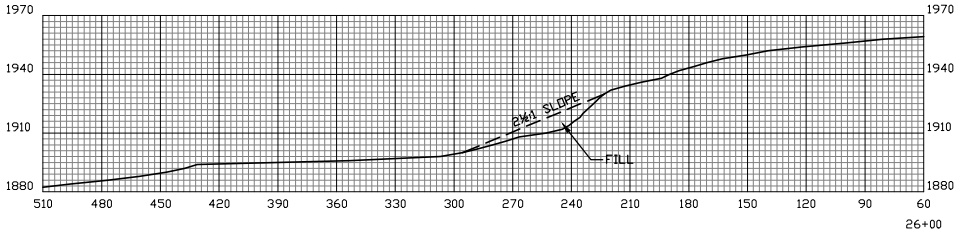
SCALE 1"=30'

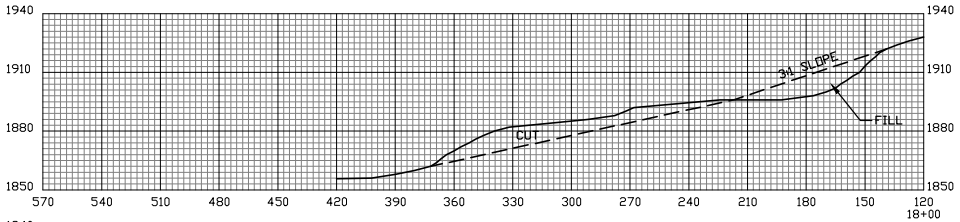
0 30 60 90

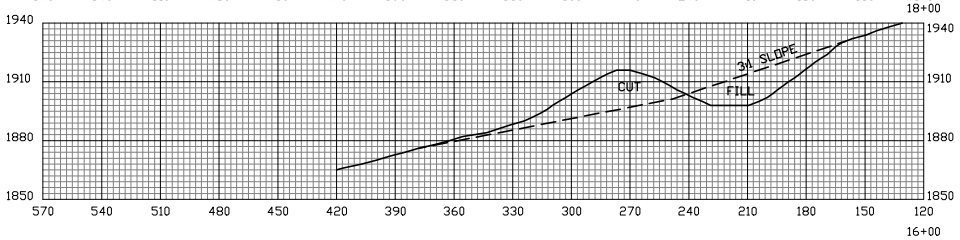
ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	BRUSHY RIDGE- CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 4/6/2021
DWG	CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 30'	SHEET 3 OF 10

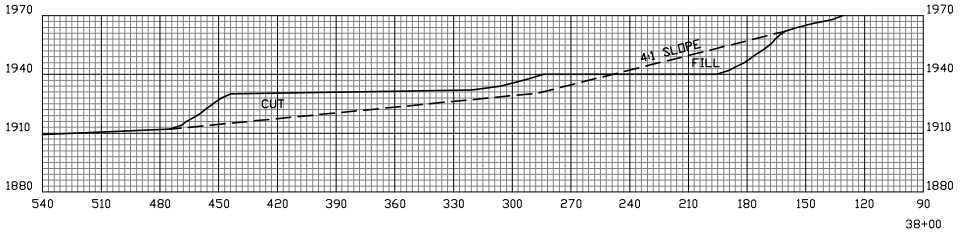


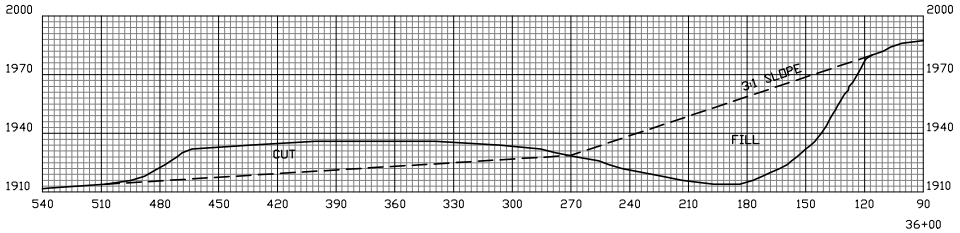


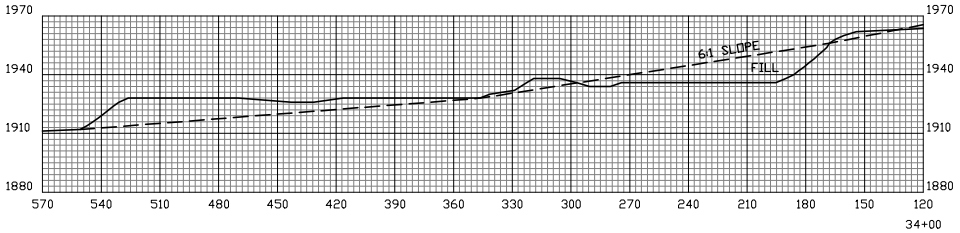


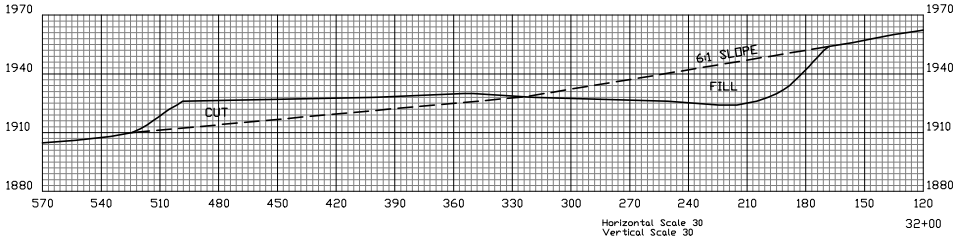












Horizontal Scale 30
Vertical Scale 30

LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- GRASSED WATERWAY
- WATER

SCALE 1"=30'

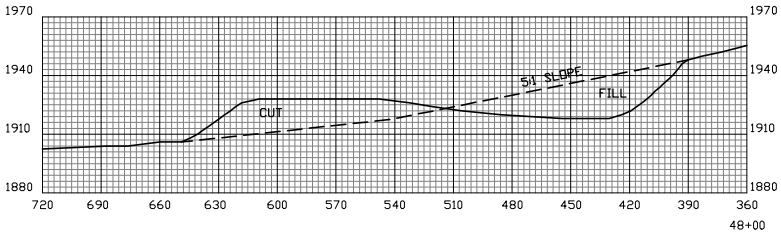
0 30 60 90

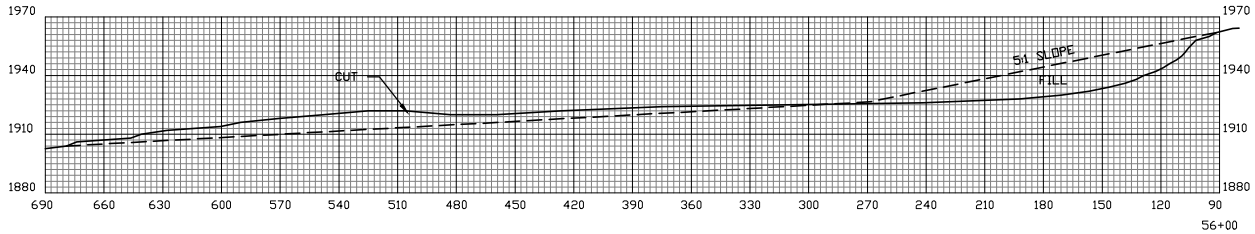
BRUSHY RIDGE

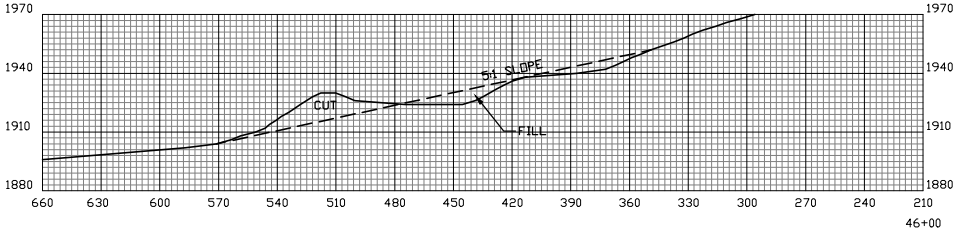
BRUSHY RIDGE SITE

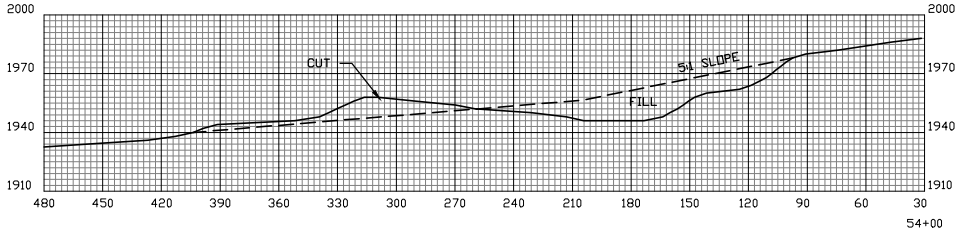
BASELINE 1 - CROSS SECTIONS

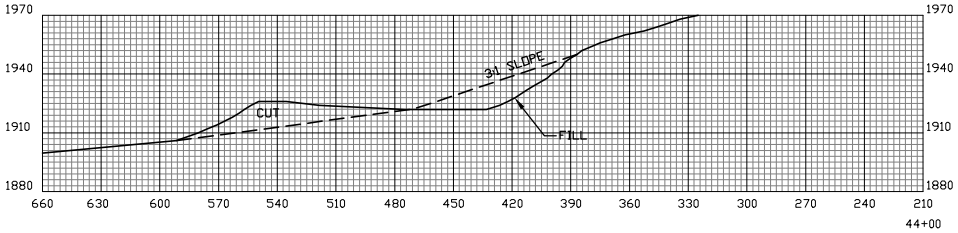
ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	BRUSHY RIDGE- CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 4/6/2021
DWG	CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 30'	SHEET 4 OF 10

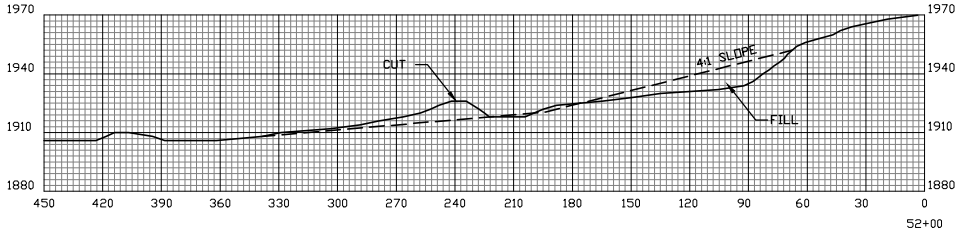


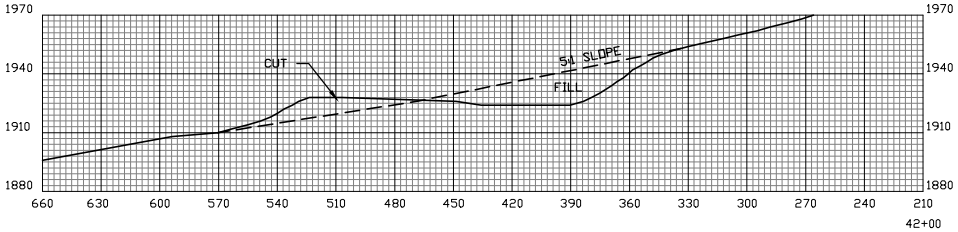


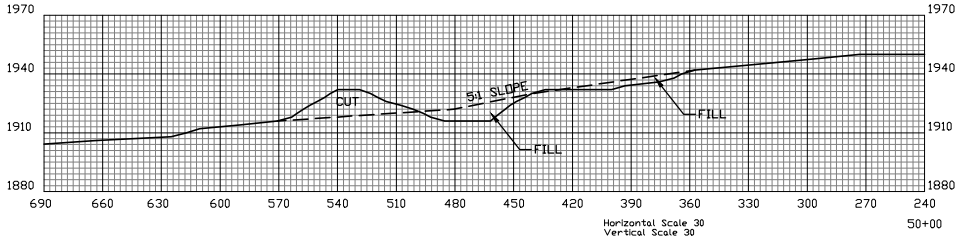


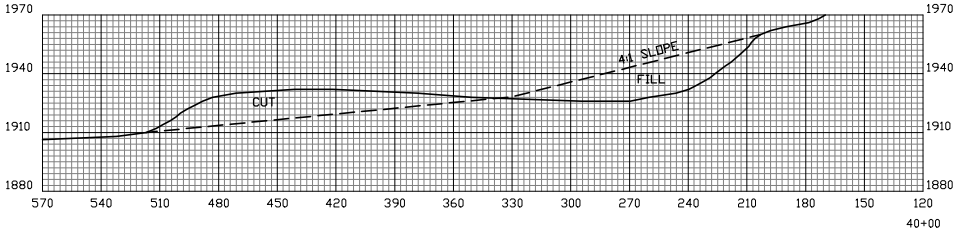












Horizontal Scale 30
Vertical Scale 30

LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- GRASSED WATERWAY
- WATER

SCALE 1"=30'

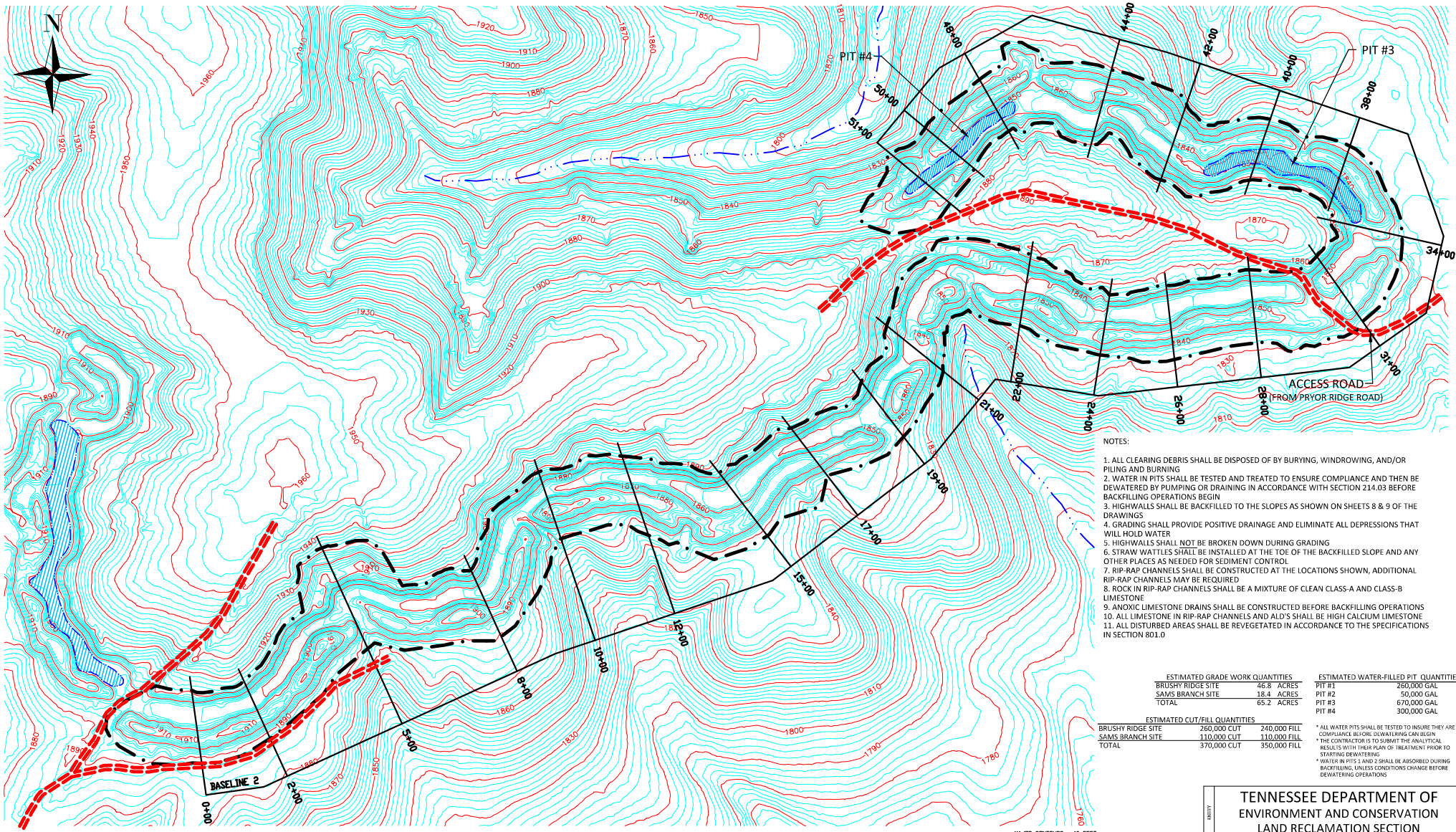
0 30 60 90

BRUSHY RIDGE

BRUSHY RIDGE SITE

BASELINE 1 - CROSS SECTIONS

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	BRUSHY RIDGE- CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 4/6/2021
DWG	CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 30'	SHEET 5 OF 10



NOTES:

1. ALL CLEARING DEBRIS SHALL BE DISPOSED OF BY BURYING, WINDROWING, AND/OR PILING AND BURNING
2. WATER IN PITS SHALL BE TESTED AND TREATED TO ENSURE COMPLIANCE AND THEN BE DEWATERED BY PUMPING OR DRAINING IN ACCORDANCE WITH SECTION 214.03 BEFORE BACKFILLING OPERATIONS BEGIN
3. HIGHWALLS SHALL BE BACKFILLED TO THE SLOPES AS SHOWN ON SHEETS 8 & 9 OF THE DRAWINGS
4. GRADING SHALL PROVIDE POSITIVE DRAINAGE AND ELIMINATE ALL DEPRESSIONS THAT WILL HOLD WATER
5. HIGHWALLS SHALL NOT BE BROKEN DOWN DURING GRADING
6. STRAW WATTLES SHALL BE INSTALLED AT THE TOE OF THE BACKFILLED SLOPE AND ANY OTHER PLACES AS NEEDED FOR SEDIMENT CONTROL
7. RIP-RAP CHANNELS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN, ADDITIONAL RIP-RAP CHANNELS MAY BE REQUIRED
8. ROCK IN RIP-RAP CHANNELS SHALL BE A MIXTURE OF CLEAN CLASS-A AND CLASS-B LIMESTONE
9. ANOXIC LIMESTONE DRAINS SHALL BE CONSTRUCTED BEFORE BACKFILLING OPERATIONS
10. ALL LIMESTONE IN RIP-RAP CHANNELS AND ALD'S SHALL BE HIGH CALCIUM LIMESTONE
11. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE TO THE SPECIFICATIONS IN SECTION 801.0

ESTIMATED GRADE WORK QUANTITIES

BRUSHY RIDGE SITE	46.8	ACRES
SAMS BRANCH SITE	18.4	ACRES
TOTAL	65.2	ACRES

ESTIMATED WATER-FILLED PIT QUANTITIES

PIT #1	260,000 GAL
PIT #2	50,000 GAL
PIT #3	670,000 GAL
PIT #4	300,000 GAL

ESTIMATED CUT/FILL QUANTITIES

BRUSHY RIDGE SITE	260,000 CUT	240,000 FILL
SAMS BRANCH SITE	110,000 CUT	110,000 FILL
TOTAL	370,000 CUT	350,000 FILL

* ALL WATER PITS SHALL BE TESTED TO INSURE THEY ARE IN COMPLIANCE BEFORE DEWATERING CAN BEGIN
* THE CONTRACTOR IS TO SUBMIT THE ANALYTICAL RESULTS WITH THEIR PLAN OF TREATMENT PRIOR TO STARTING DEWATERING
* WATER IN PITS 1 AND 2 SHALL BE ABSORBED DURING BACKFILLING, UNLESS CONDITIONS CHANGE BEFORE DEWATERING OPERATIONS

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- TRAIL
- COUNTY ROAD

BRUSHY RIDGE RECLAMATION PROJECT

SAMS BRANCH SITE

PLAN VIEW

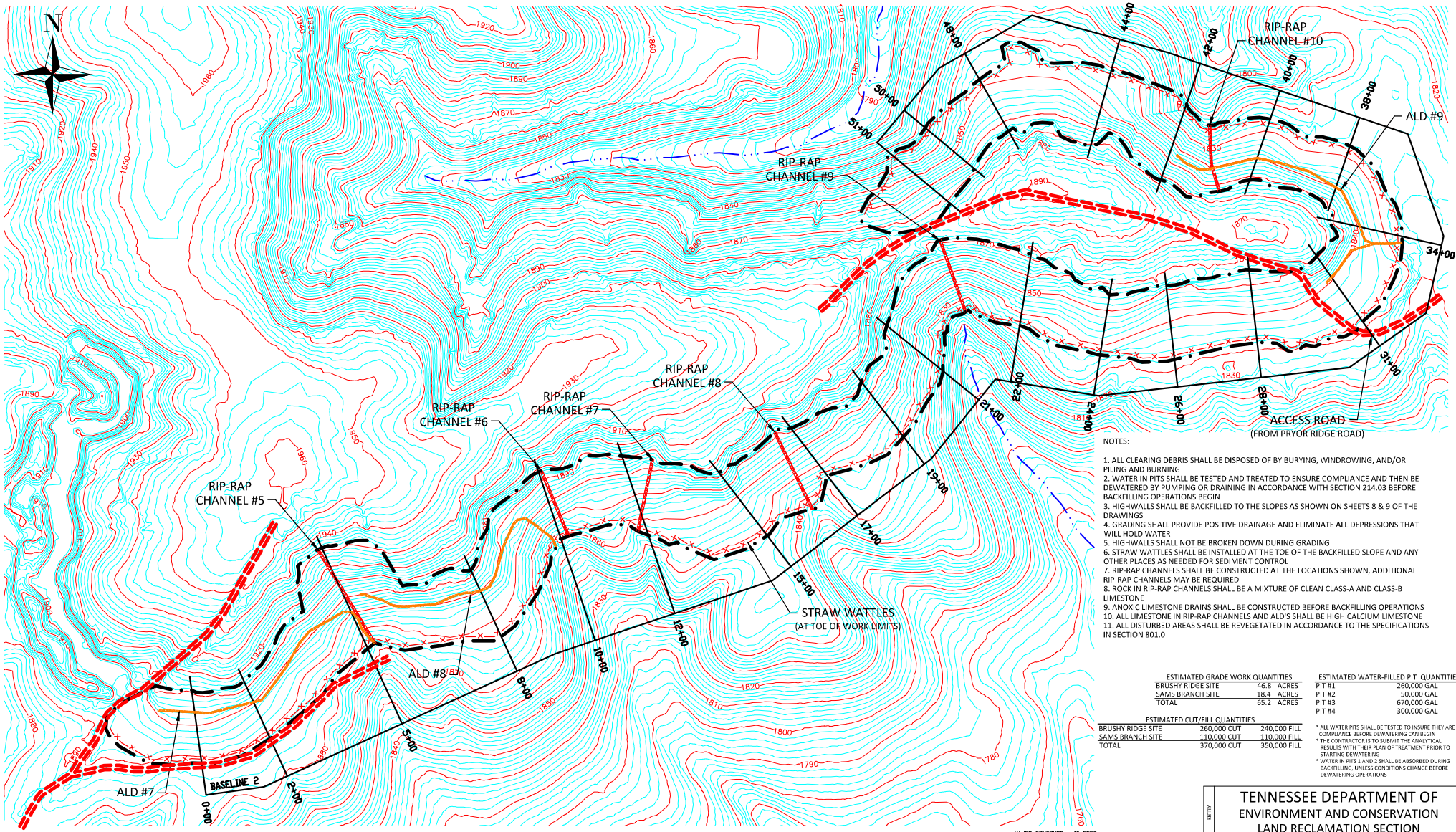
MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

SCALE 1"=100'

0 100 200 300

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT
	SAMS BRANCH - PLAN VIEW

DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 8/10/2020
CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 100'	SHEET 6 OF 10



NOTES:

1. ALL CLEARING DEBRIS SHALL BE DISPOSED OF BY BURYING, WINDROWING, AND/OR PILING AND BURNING
2. WATER IN PITS SHALL BE TESTED AND TREATED TO ENSURE COMPLIANCE AND THEN BE DEWATERED BY PUMPING OR DRAINING IN ACCORDANCE WITH SECTION 214.03 BEFORE BACKFILLING OPERATIONS BEGIN
3. HIGHWALLS SHALL BE BACKFILLED TO THE SLOPES AS SHOWN ON SHEETS 8 & 9 OF THE DRAWINGS
4. GRADING SHALL PROVIDE POSITIVE DRAINAGE AND ELIMINATE ALL DEPRESSIONS THAT WILL HOLD WATER
5. HIGHWALLS SHALL NOT BE BROKEN DOWN DURING GRADING
6. STRAW WATTLES SHALL BE INSTALLED AT THE TOE OF THE BACKFILLED SLOPE AND ANY OTHER PLACES AS NEEDED FOR SEDIMENT CONTROL
7. RIP-RAP CHANNELS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN, ADDITIONAL RIP-RAP CHANNELS MAY BE REQUIRED
8. ROCK IN RIP-RAP CHANNELS SHALL BE A MIXTURE OF CLEAN CLASS-A AND CLASS-B LIMESTONE
9. ANOXIC LIMESTONE DRAINS SHALL BE CONSTRUCTED BEFORE BACKFILLING OPERATIONS
10. ALL LIMESTONE IN RIP-RAP CHANNELS AND ALD'S SHALL BE HIGH CALCIUM LIMESTONE
11. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE TO THE SPECIFICATIONS IN SECTION 801.0

ESTIMATED GRADE WORK QUANTITIES

BRUSHY RIDGE SITE	46.8	ACRES
SAMS BRANCH SITE	18.4	ACRES
TOTAL	65.2	ACRES

ESTIMATED CUT/FILL QUANTITIES

BRUSHY RIDGE SITE	260,000 CUT	240,000 FILL
SAMS BRANCH SITE	110,000 CUT	110,000 FILL
TOTAL	370,000 CUT	350,000 FILL

ESTIMATED WATER-FILLED PIT QUANTITIES

PIT #1	260,000 GAL
PIT #2	50,000 GAL
PIT #3	670,000 GAL
PIT #4	300,000 GAL

* ALL WATER PITS SHALL BE TESTED TO INSURE THEY ARE IN COMPLIANCE BEFORE DEWATERING CAN BEGIN
* THE CONTRACTOR IS TO SUBMIT THE ANALYTICAL RESULTS WITH THEIR PLAN OF TREATMENT PRIOR TO STARTING DEWATERING
* WATER IN PITS 1 AND 2 SHALL BE ABSORBED DURING BACKFILLING, UNLESS CONDITIONS CHANGE BEFORE DEWATERING OPERATIONS

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- TRAIL
- COUNTY ROAD

BRUSHY RIDGE RECLAMATION PROJECT

SAMS BRANCH SITE

FINAL VIEW

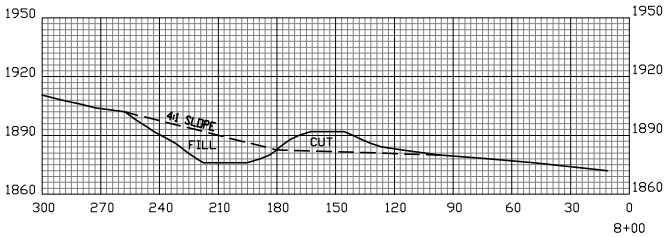
MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

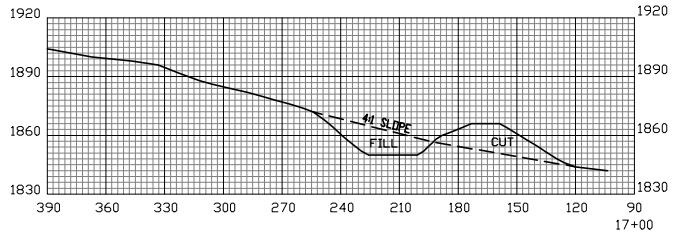
SCALE 1"=100'

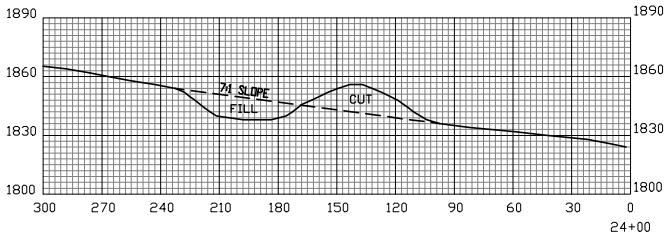
0 100 200 300

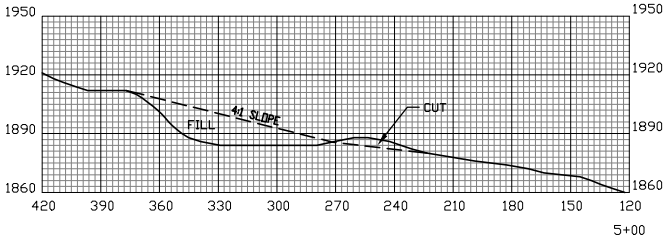
ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT
	SAMS BRANCH - FINAL VIEW

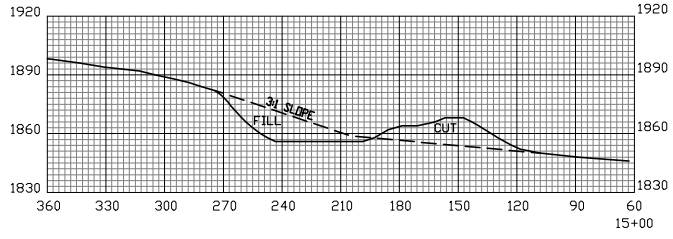
DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 8/10/2020
CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 100'	SHEET 7 OF 10

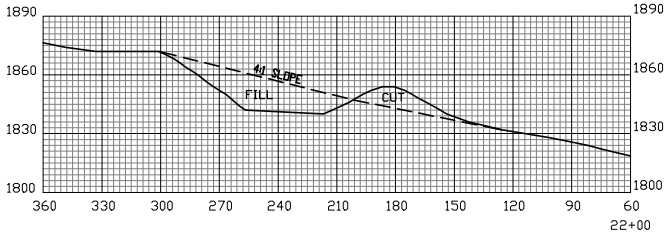


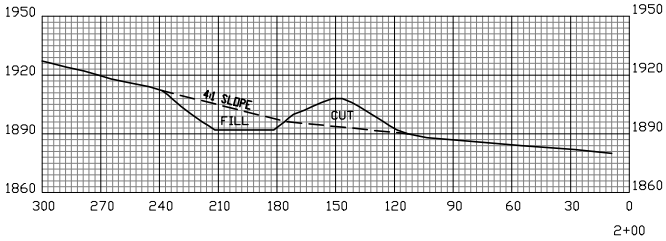


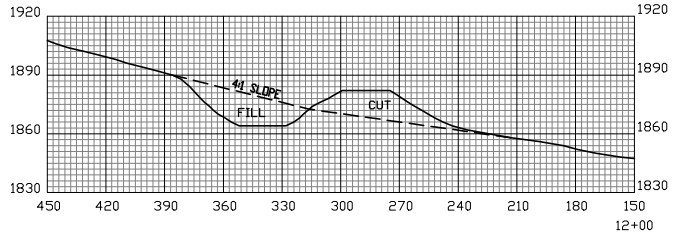


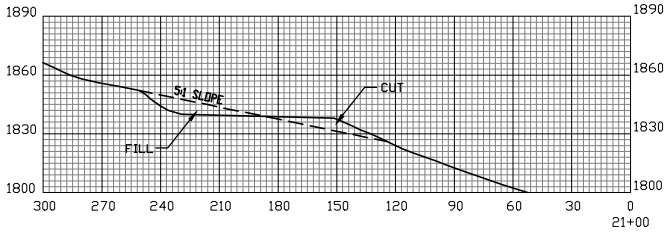


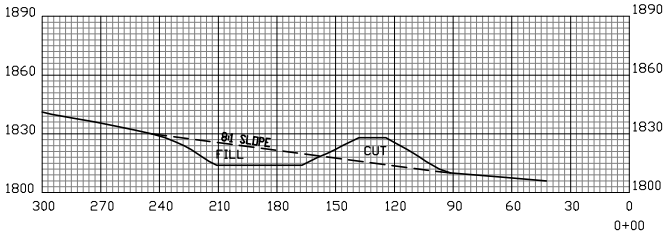


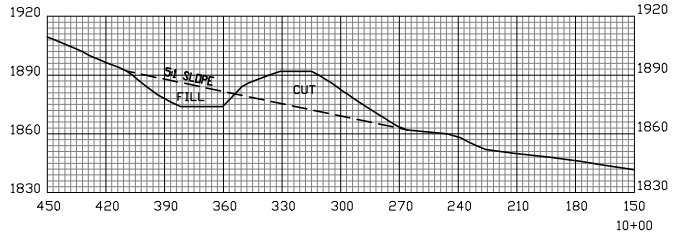


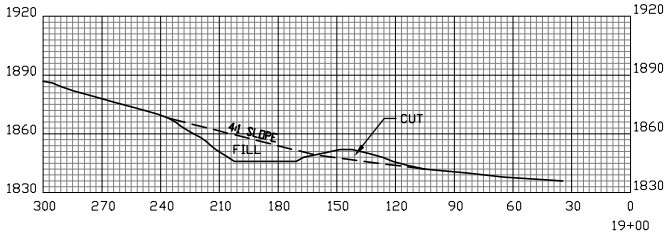












Horizontal Scale 30
Vertical Scale 30

LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- GRASSED WATERWAY
- WATER

BRUSHY RIDGE

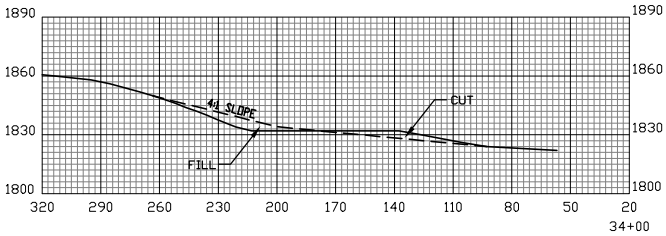
SAMS BRANCH SITE

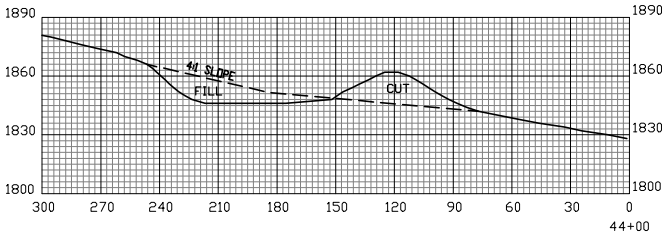
BASELINE 2 - CROSS SECTIONS

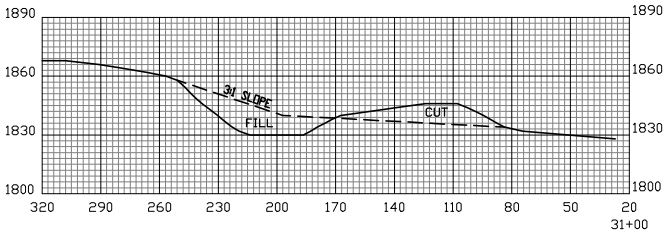
SCALE 1"=30'

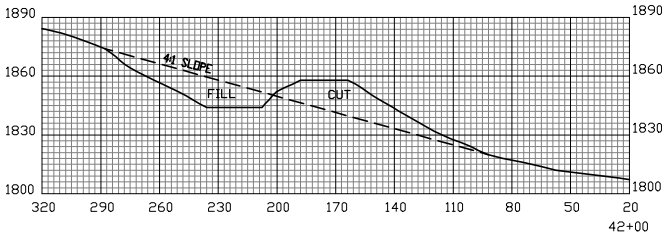
0 30 60 90

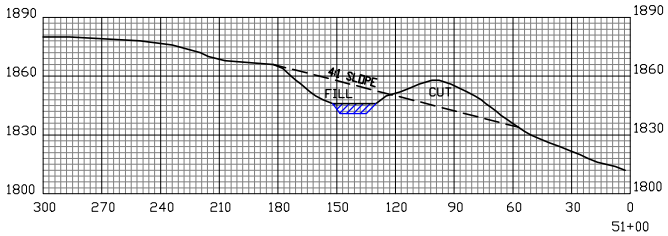
ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	SAMS BRANCH - CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 8/10/2020
DWG	CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 30'	SHEET 8 OF 10

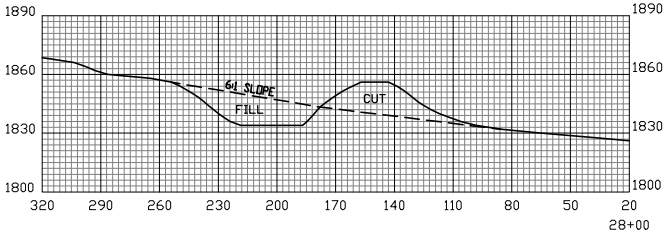


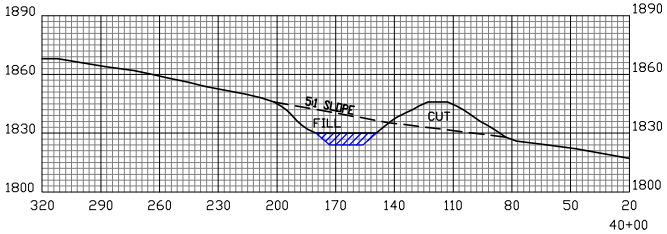


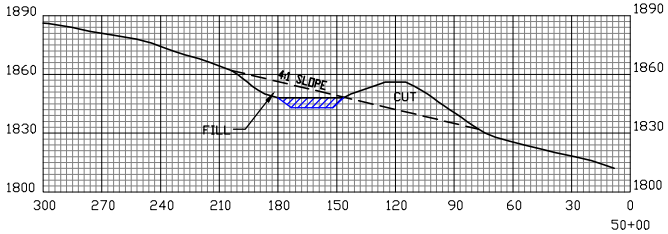


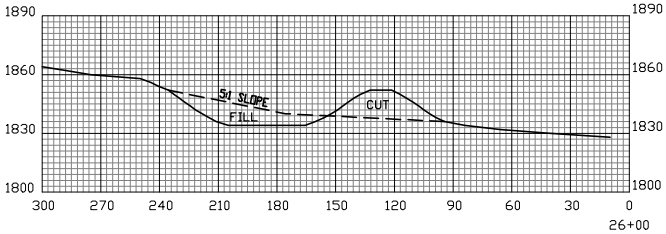


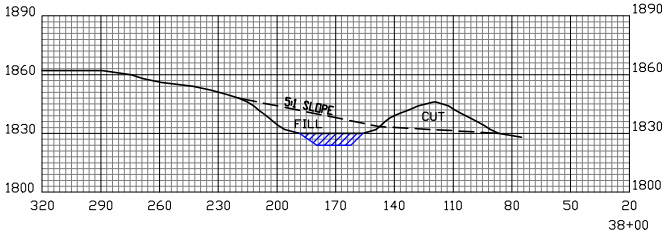


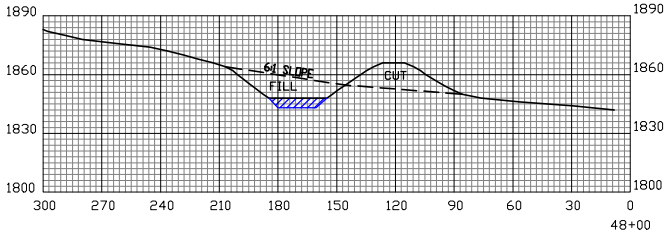












Horizontal Scale 30
Vertical Scale 30

LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- GRASSED WATERWAY
- WATER

BRUSHY RIDGE

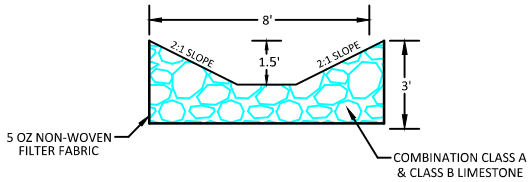
SAMS BRANCH SITE

BASELINE 2 - CROSS SECTIONS

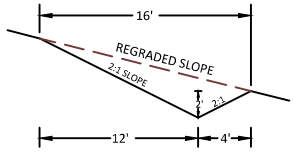
SCALE 1"=30'

0 30 60 90

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	SAMS BRANCH - CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 8/10/2020
DWG	CHECKED BY: TWM DATE: 7/19/2021	SCALE 1" = 30'	SHEET 9 OF 10

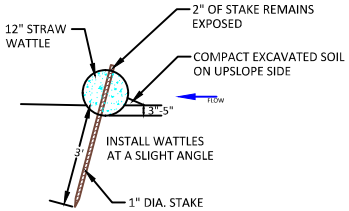


RIP-RAP CHANNEL SECTION

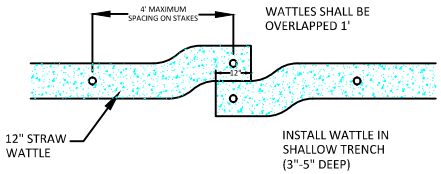


TYPICAL TERRACE SECTION

(IF DETERMINED NECESSARY BY THE PROJECT OFFICER)

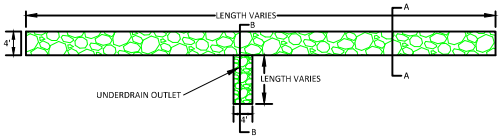


SIDE VIEW

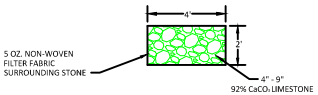


TOP VIEW

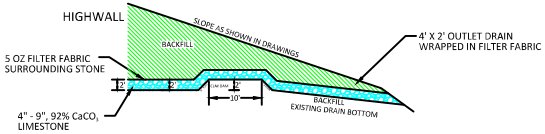
STRAW WATTLE DETAIL



ALD - PLAN VIEW

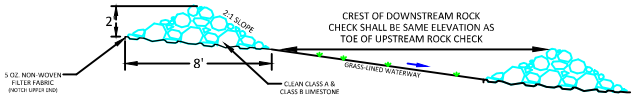


ALD - SECTION A-A

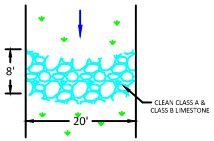


ALD - SECTION B-B

ANOXIC LIMESTONE DRAIN DETAIL



SIDE VIEW



TOP VIEW

ROCK CHECK DETAIL

BRUSHY RIDGE

DETAILS

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	BRUSHY RIDGE RECLAMATION PROJECT		
	WATER & SEDIMENT CONTROL STRUCTURES		
BY	DRAWN BY: MPP DATE: 7/16/2021	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 2/3/2020
DWG	CHECKED BY: TWM DATE: 7/19/2021	SCALE NOT TO SCALE	SHEET 10 OF 10