

ROAD CONSTRUCTION PLANS PROJECT 1 FOR
GREYROCK SUBDIVISION

LAKE LURE RUTHERFORD COUNTY, N.C.

PROJECT OWNER:
 RUTHERFORD COUNTY,
 N.C.

PROPERTY OWNER:
 GREYROCK HOMEOWNERS
 ASSOCIATION

VICINITY MAP
 NTS

JOB NUMBER:
 12008

REV	DATE	BY



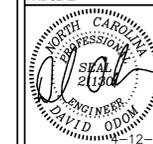
GENERAL NOTES:

DESCRIPTION

REV

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I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF NORTH CAROLINA AS SIGNIFIED BY MY HAND AND SEAL.



ROAD CONSTRUCTION PLANS FOR
GREYROCK SUBDIVISION
 LAKE LURE RUTHERFORD COUNTY, NC
COVER

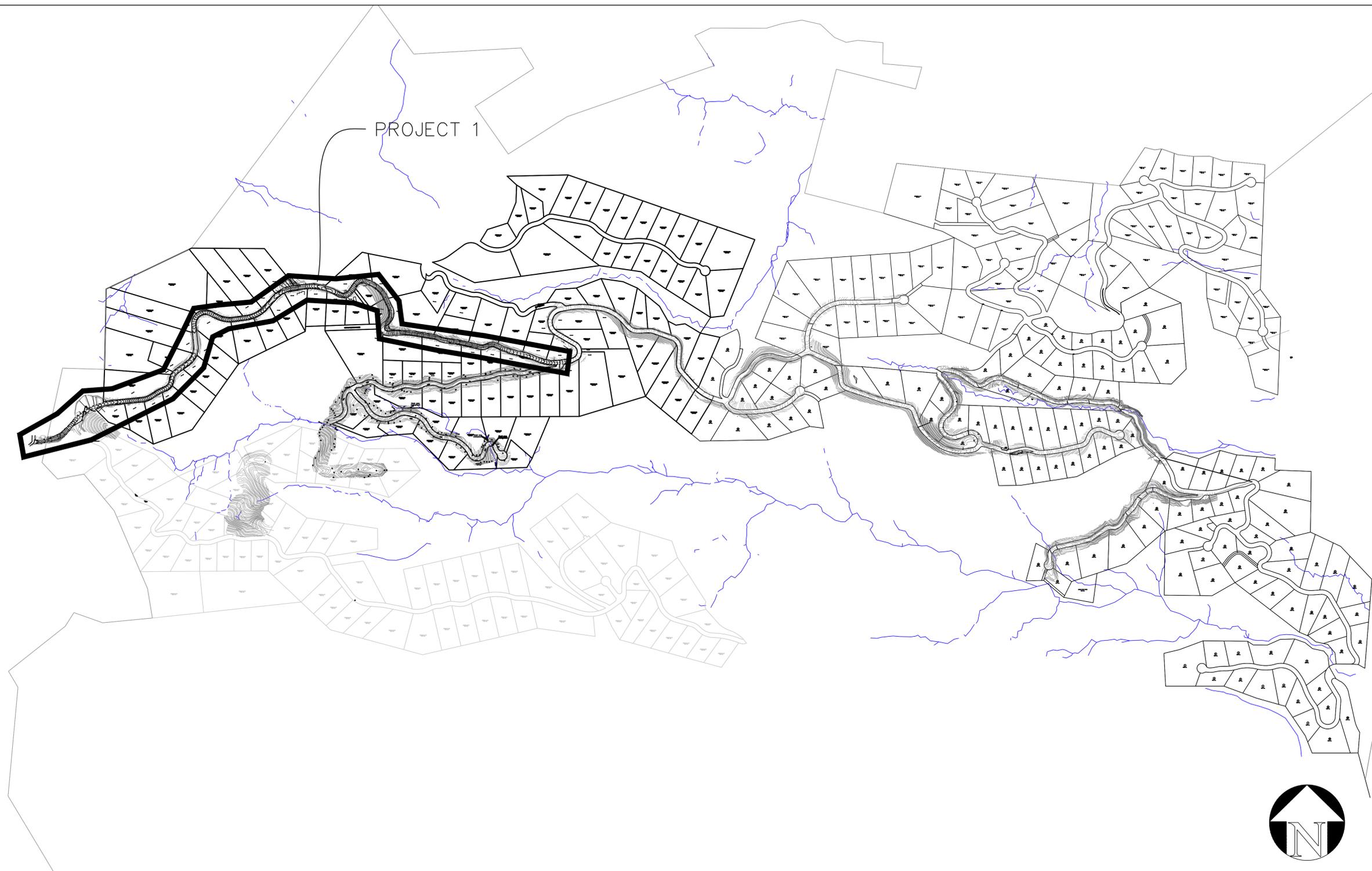
SHEET INDEX

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ROAD PLAN AND PROFILE	7
DRAINAGE AREAS	8
SPOIL AREA	
DETAILS	

Odom Engineering PLLC
 1514 E. ...
 RUTHERFORD COUNTY, NC
 PH: 703.237.4495 FAX: 703.237.4498



SCALE: N.T.S.
 DATE: 04/10/12
 DRAWN BY: JCW
 CHECKED BY: DWO
 PROJECT MGR: DWO
 SHEET:
 COVER

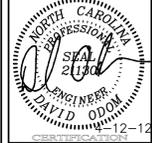


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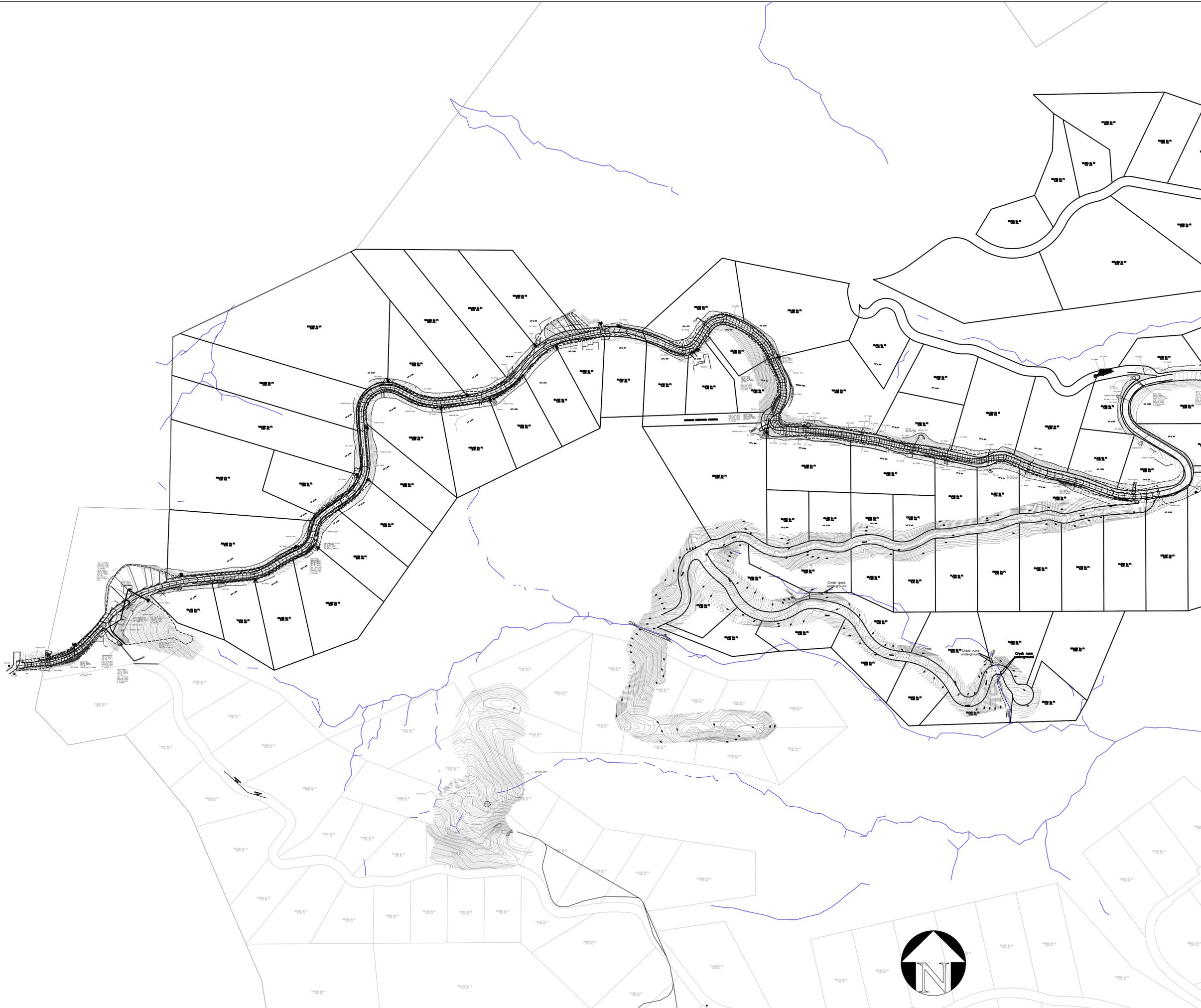


ROAD LAYOUT PHASE 1 PLANS FOR
GREYROCK SUBDIVISION
 LAKE LURE
 RUTHERFORD COUNTY, NC
OVERALL PROJECT 1 LAYOUT

Odom Engineering PLLC
 1574 W. HARRIS AVE., SUITE 100, N.C. 28643
 PH: 828.271.4495 FAX: 828.271.4498



SCALE: 1" = 300'
 DATE: 04/12/12
 DRAWN BY: JCW
 CHECKED BY: DWO
 PROJECT MGR: DWO
 SHEET:
 OVERALL



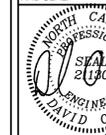
GENERAL NOTES:

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11087

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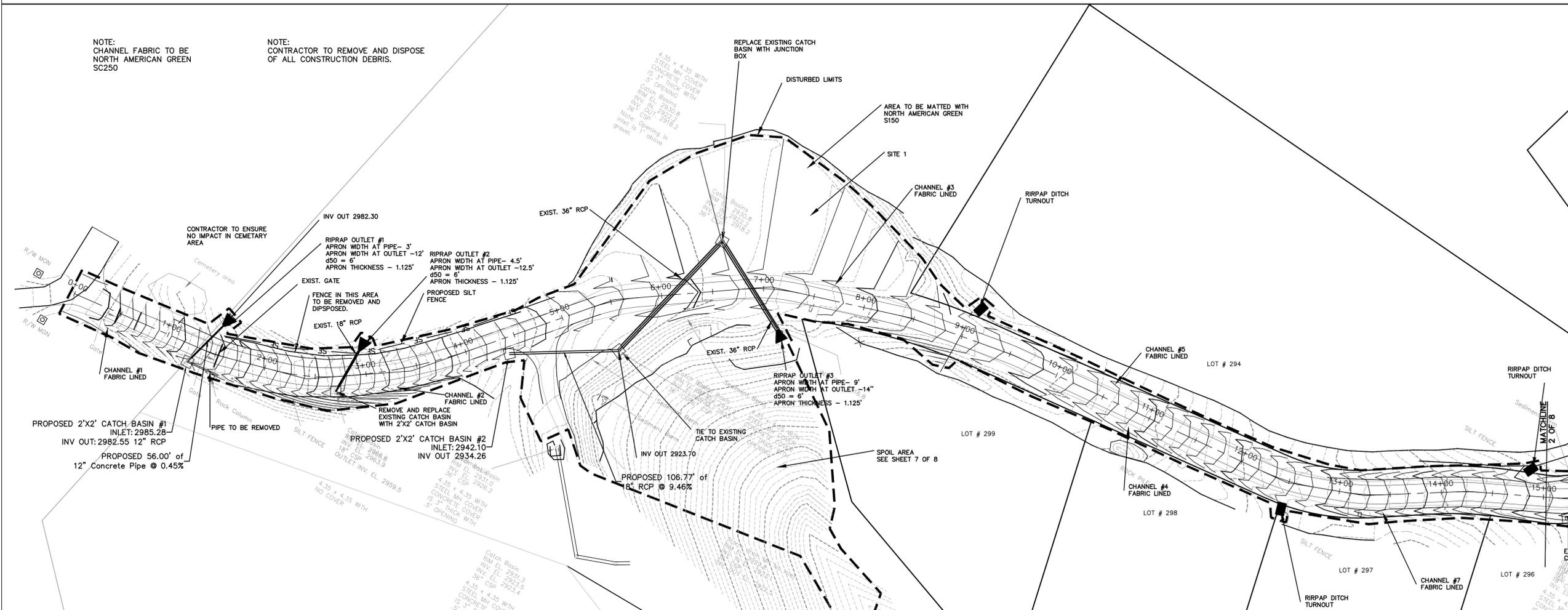
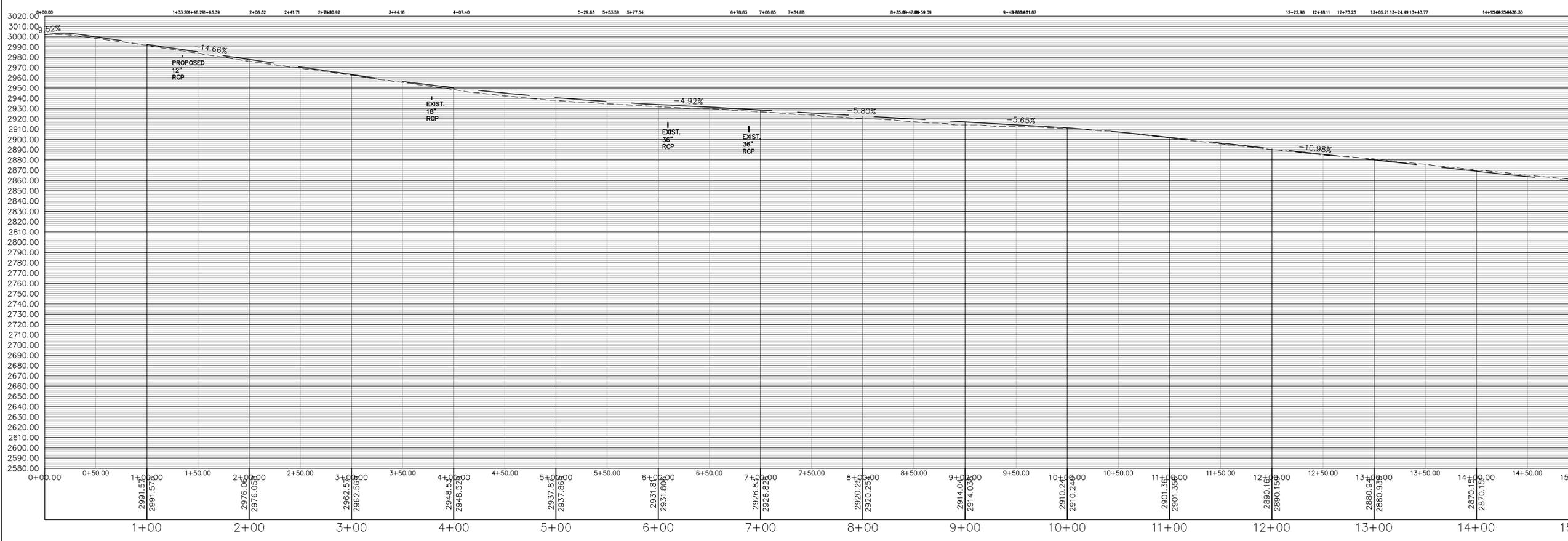


4-12-12

ROAD LAYOUT PHASE I PLANS FOR
GREY ROCK SUBDIVISION
 RUTHERFORD COUNTY, NC
 LAKE LURE
ROAD LAYOUT



SCALE: 1" = 50'
 DATE: 04/12/12
 DRAWN BY: JCW
 CHECKED BY: DWO
 PROJECT MGR: DWO
 SHEET:
 1 OF 8



NOTE:
 CHANNEL FABRIC TO BE
 NORTH AMERICAN GREEN
 SC250

NOTE:
 CONTRACTOR TO REMOVE AND DISPOSE
 OF ALL CONSTRUCTION DEBRIS.

CONTRACTOR TO ENSURE
 NO IMPACT IN CEMETARY
 AREA

FENCE IN THIS AREA
 TO BE REMOVED AND
 DISPOSED.

PROPOSED 2'X2' CATCH BASIN #1
 INLET: 2985.28
 INV OUT: 2982.55 12" RCP
 PROPOSED 56.00' of
 12" Concrete Pipe @ 0.45%

PROPOSED 2'X2' CATCH BASIN #2
 INLET: 2942.10
 INV OUT: 2934.26

PROPOSED 106.77' of
 18" RCP @ 9.46%

SPOIL AREA
 SEE SHEET 7 OF 8

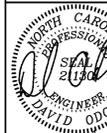
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4-12-12

ROAD LAYOUT PHASE 1 PLANS FOR
GREYROCK SUBDIVISION
 LAKE LURE
 RUTHERFORD COUNTY, NC
ROAD LAYOUT

Odom & Associates
 Engineering, Inc.
 153 East Main Street, Forest City, N.C. 28043
 PH: 828.247.4495 FAX: 828.247.4496



SCALE: 1" = 50'

DATE: 04/12/12

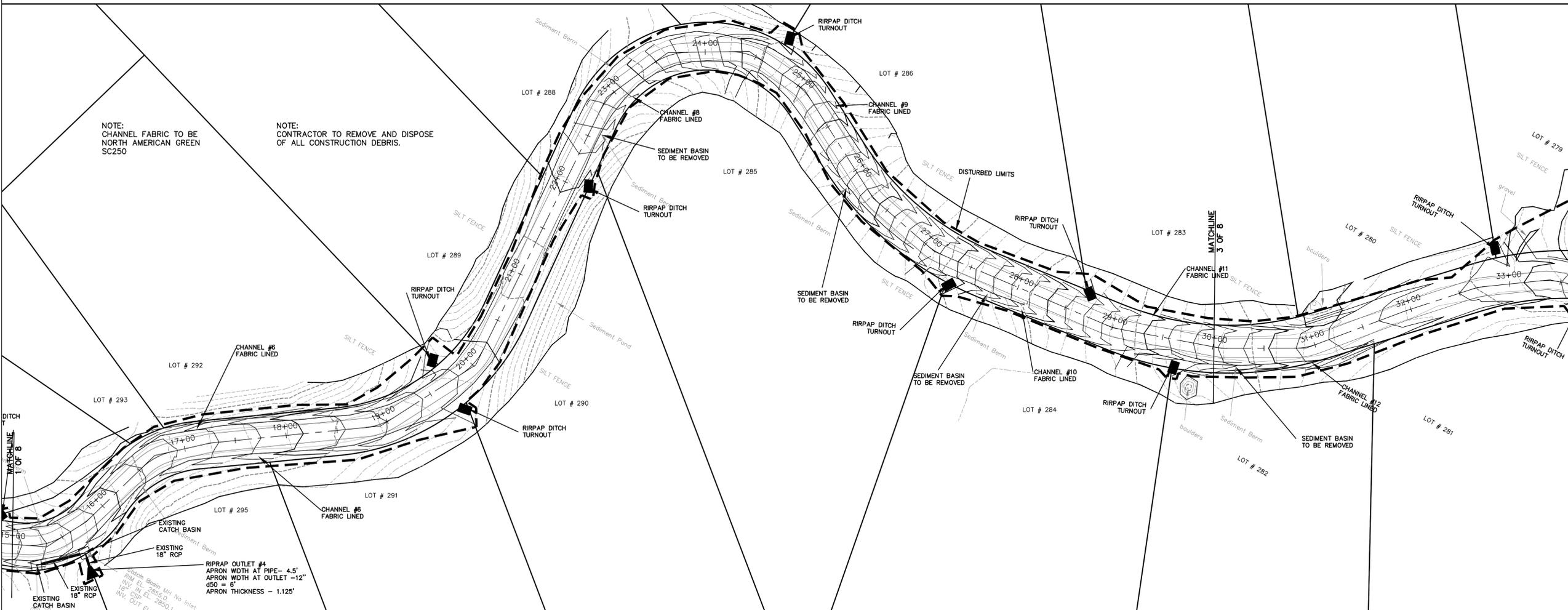
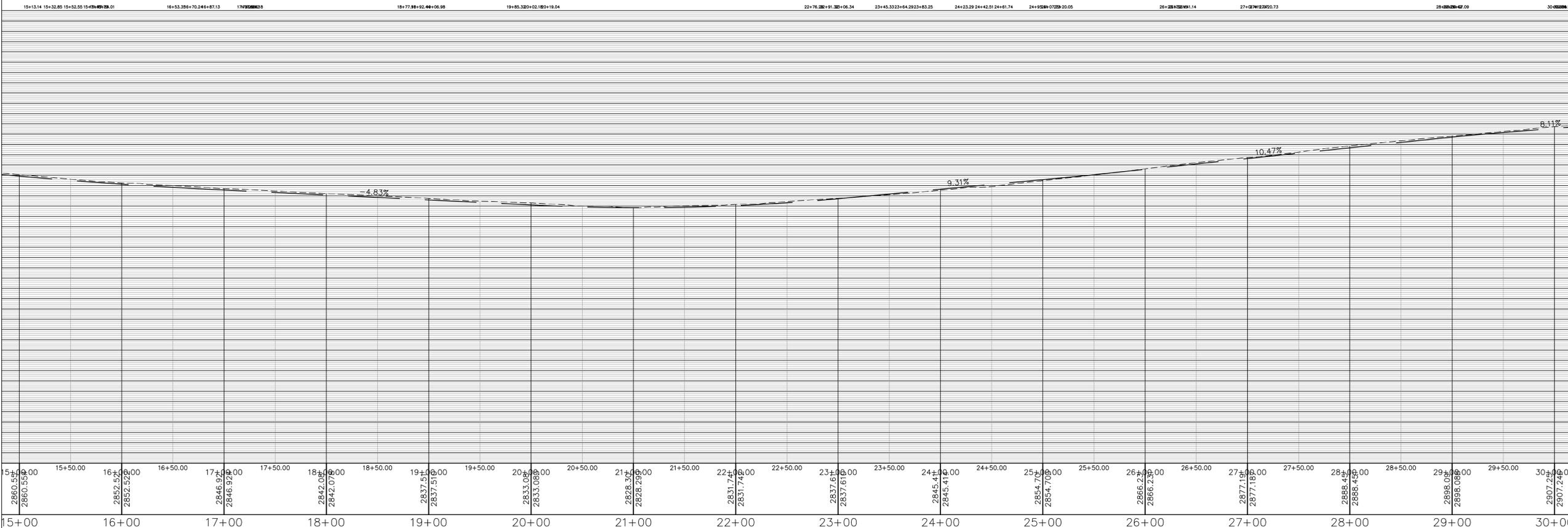
DRAWN BY: JCW

CHECKED BY: DWO

PROJECT MGR: DWO

SHEET:

2 OF 8



NOTE: CHANNEL FABRIC TO BE NORTH AMERICAN GREEN SC250

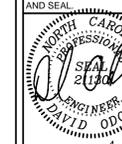
NOTE: CONTRACTOR TO REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS.

RIRPAP OUTLET #4
 APRON WIDTH AT PIPE - 4.5'
 APRON WIDTH AT OUTLET - 12"
 450 = 6'
 APRON THICKNESS - 1.125'

EXISTING 18" RCP
 INV. IN. EL. 2855.0
 18" CSF EL. 2850.1
 INV. OUT. EL.

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4-12-12

ROAD LAYOUT PHASE I PLANS FOR
GREYROCK SUBDIVISION
 RUTHERFORD COUNTY, NC
 LAKE LURE
ROAD LAYOUT



SCALE: 1" = 50'

DATE: 04/12/12

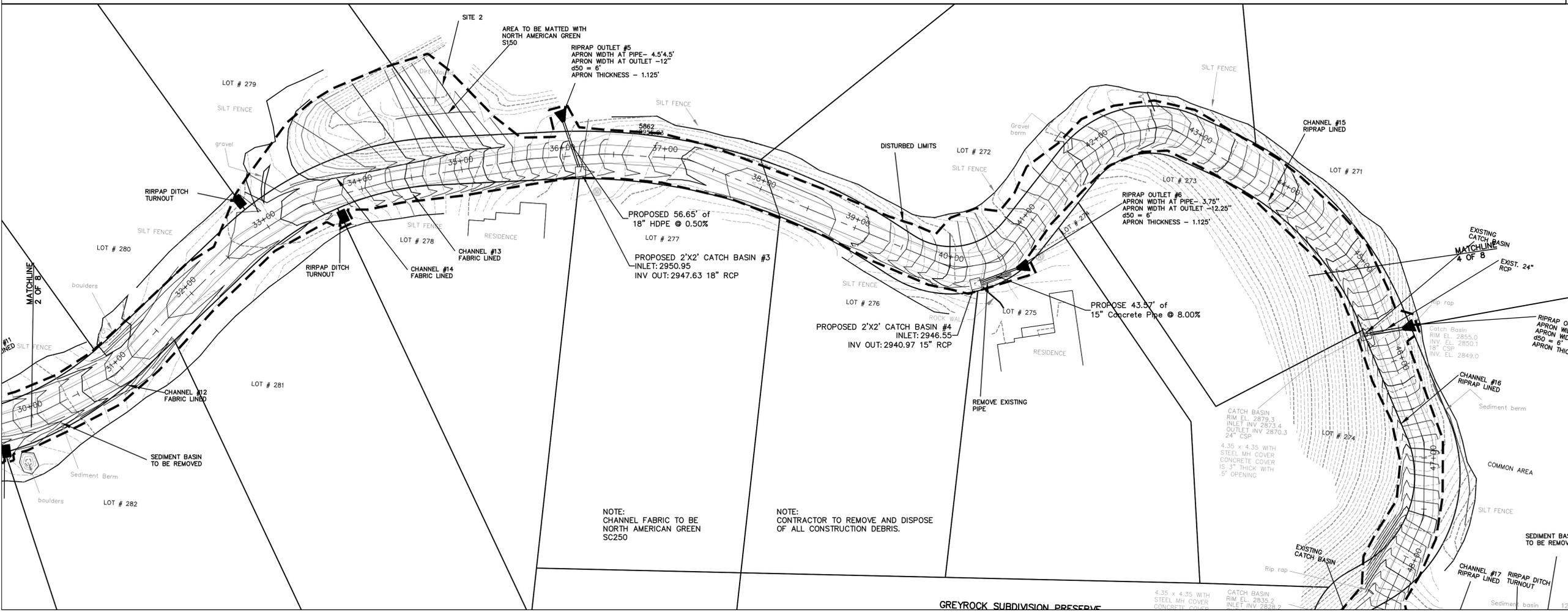
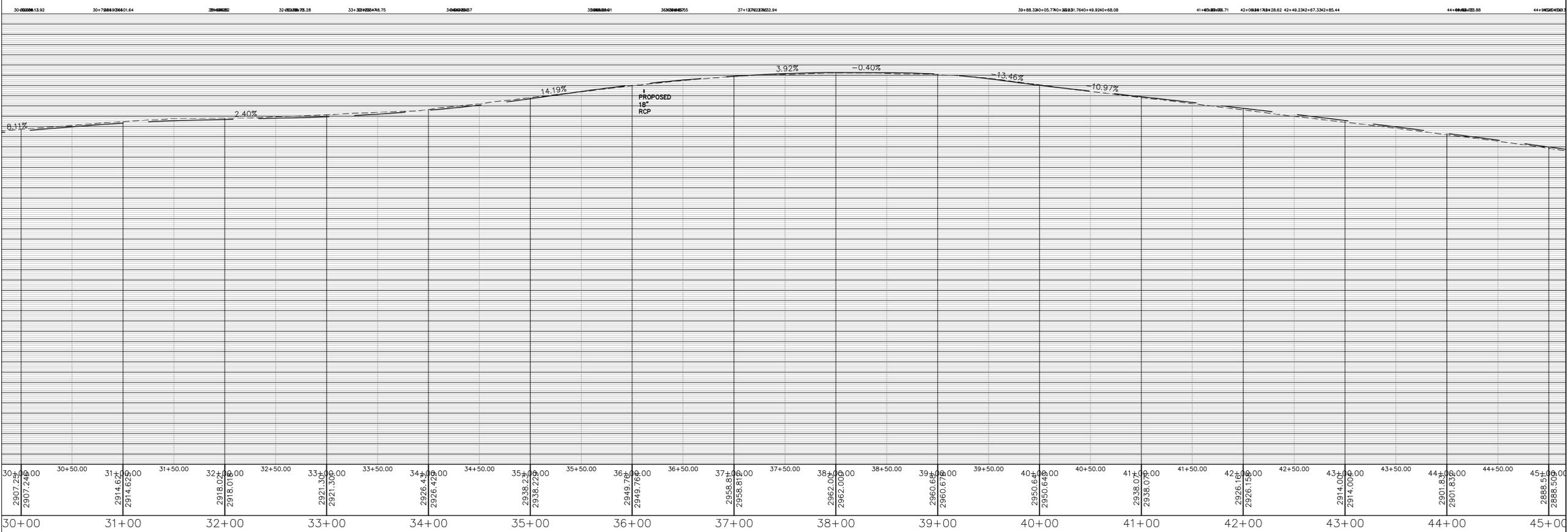
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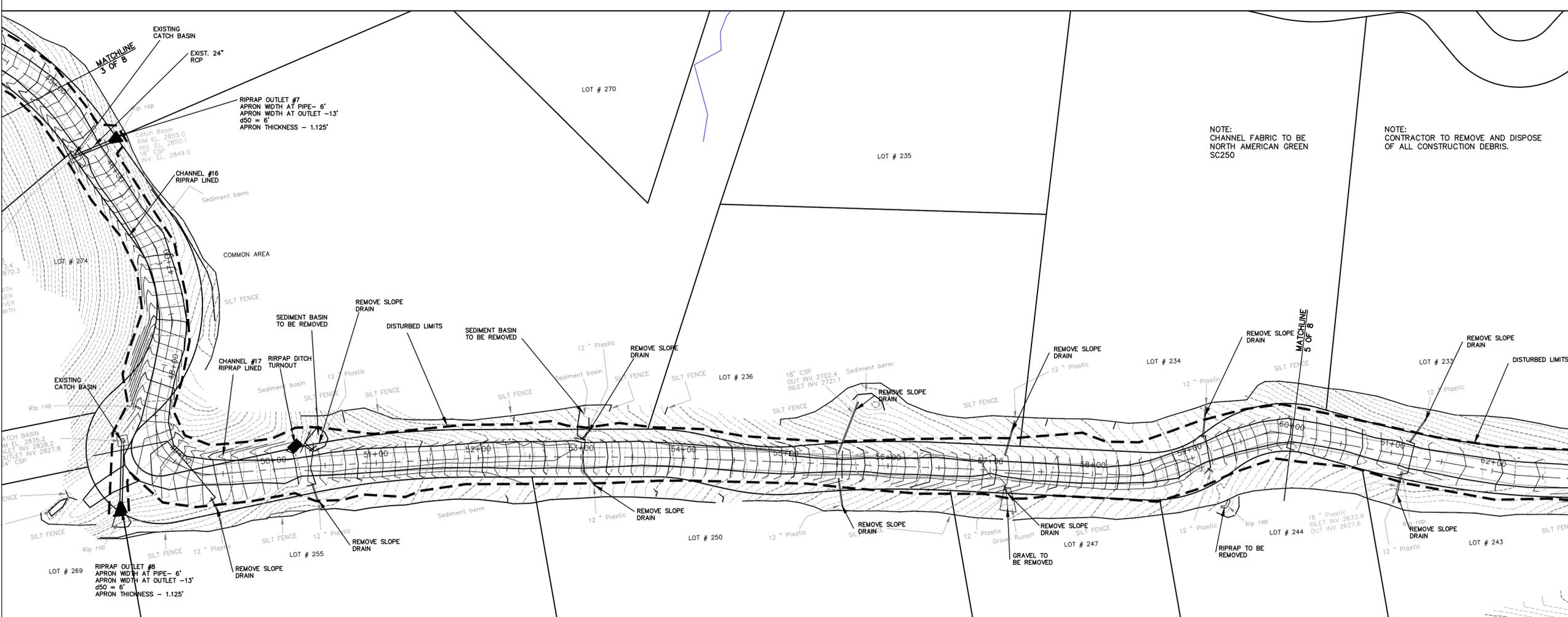
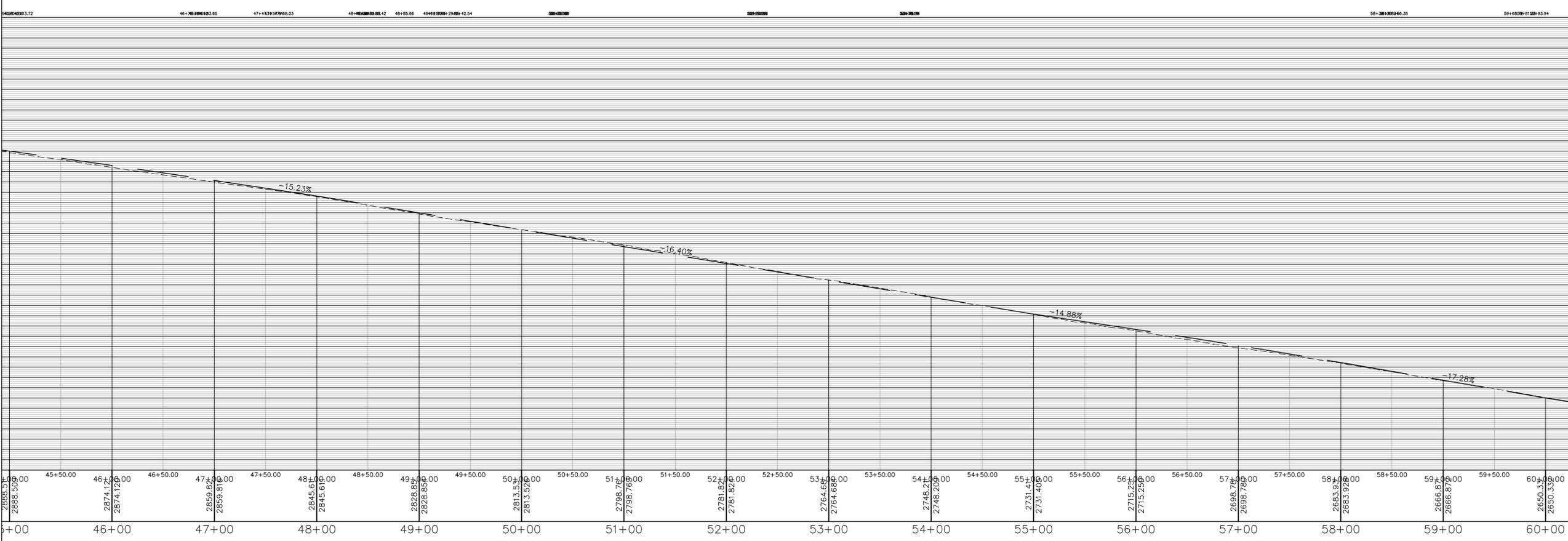
3 OF 8



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 NORTH AMERICAN GREEN
 SC250

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GREYROCK SUBDIVISION PRESERVE



Odom & Associates
Engineering, Inc.
152 East Main Street, Forest City, N.C. 28043
ph: 828.247.4495 fax: 828.247.4898

GENERAL NOTES:

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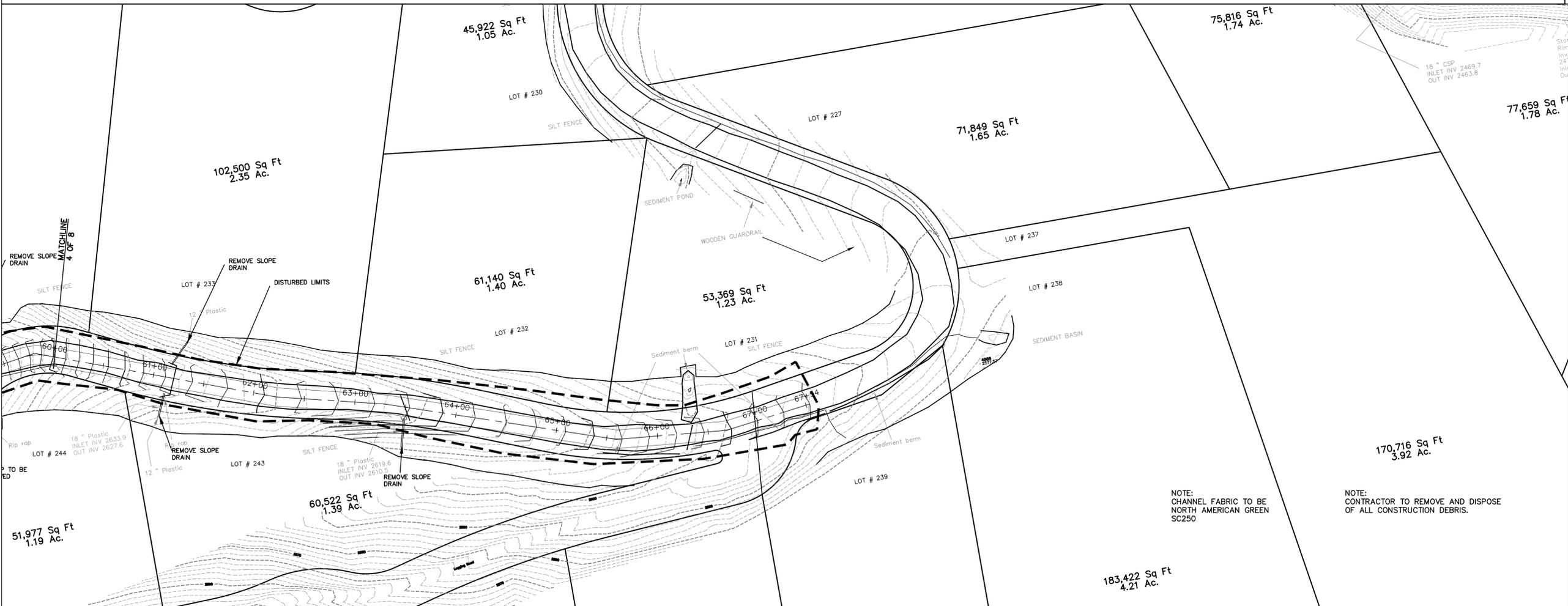
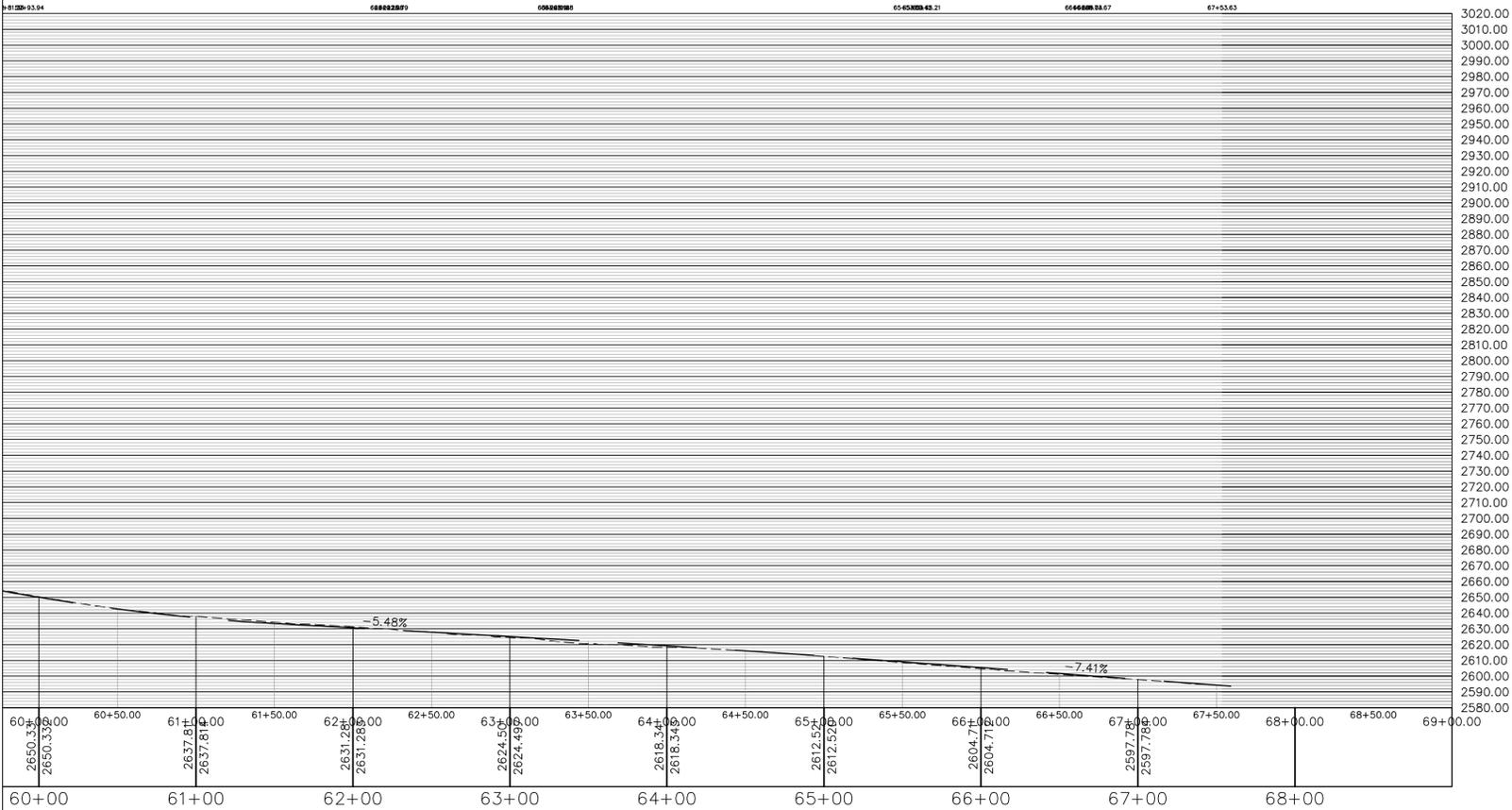
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ROAD LAYOUT PHASE PLANS FOR
GREYROCK SUBDIVISION
LAKE LURE
RUTHERFORD COUNTY, NC
ROAD LAYOUT



SCALE: 1" = 50'
DATE: 04/12/12
DRAWN BY: JCW
CHECKED BY: DWO
PROJECT MGR: DWO
SHEET:
5 OF 8



NOTE:
CHANNEL FABRIC TO BE
NORTH AMERICAN GREEN
SC250

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CERTIFICATION 12-12

ROAD LAYOUT PHASE 1 PLANS FOR
GREYROCK SUBDIVISION
LAKE LURE
RUTHERFORD COUNTY, NC
DRAINAGE AREAS

Odom & Associates
Engineering, Inc.
152 East Main Street, Forest City, N.C. 28043
ph: 828.247.4495 fax: 828.247.4498



SCALE: 1" = 200'

DATE: 04/12/12

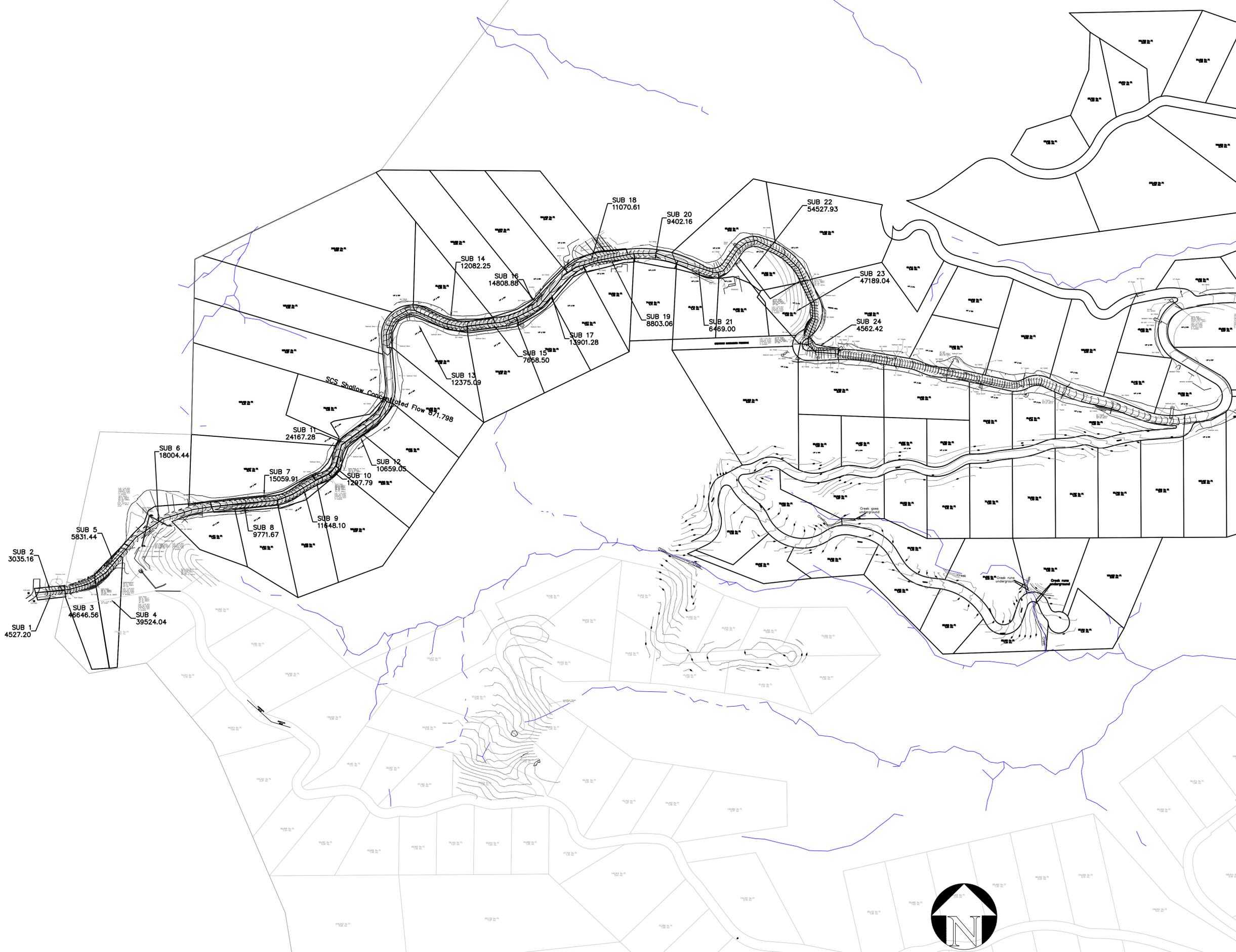
DRAWN BY: JCW

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PROJECT MGR: DWO

SHEET:

6 OF 8



INV. IN. 2922.2
 INV. OUT. 2918.2
 36" CSP
 Note: Opening in
 inlet is 1' above
 gravel.

Catch Basins
 RIM EL. 2930.8
 INV. IN. 2922.2
 INV. OUT. 2918.2
 36" CSP

14367
 2930.78

INV. OUT 2916.8

LOT # 299

52,471 Sq Ft
 1.20 Ac.

Catch Basin
 RIM EL. 2931.2
 INV. EL. 2923.2
 36" CSP

2:1 SLOPE

Sediment Berm
 Sediment Berm
 Sediment Berm

Storm drain MH No. inlet
 RIM EL. 2929.8
 INV. IN. EL. 2923.1
 36" CSP
 INV. OUT. EL. 2922.5

SKIMMER BASIN #1
 WIDTH - 31'
 LENGTH - 62'
 DEPTH - 3.5'
 WEIR - 4'
 SKIMMER SIZE - 4"
 ORIFICE SIZE 1.25"

Catch Basin
 RIM EL. 2931.0
 INV. EL. 2926.2
 36" CSP

4.35 x 4.35 WITH
 STEEL MH COVER
 CONCRETE COVER
 IS 3" THICK WITH
 .5' OPENING

Catch Basin
 RIM EL. 2906.6
 INV. EL. 2963.9
 18" CSP
 OUTLET INV. EL. 2959.5

Catch Basin
 RIM EL. 2931.3
 INV. EL. 2923.5
 INV. EL. 2923.4

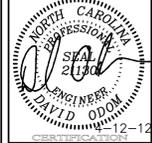


GENERAL NOTES:

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ROAD LAYOUT PHASE I PLANS FOR
GREYROCK SUBDIVISION
 RUTHERFORD COUNTY, NC
 LAKE LURE
SPOIL AREA

Odom Engineering PLLC
 1521 E. 10th Street, Suite 101, Raleigh, NC 27604
 PH: 919.237.4495 FAX: 919.237.4498

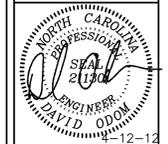


SCALE: 1" = 20'
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 DRAWN BY: JCW
 CHECKED BY: DWO
 PROJECT MGR: DWO
 SHEET:
 7 OF 8

DATE	
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DESCRIPTION	

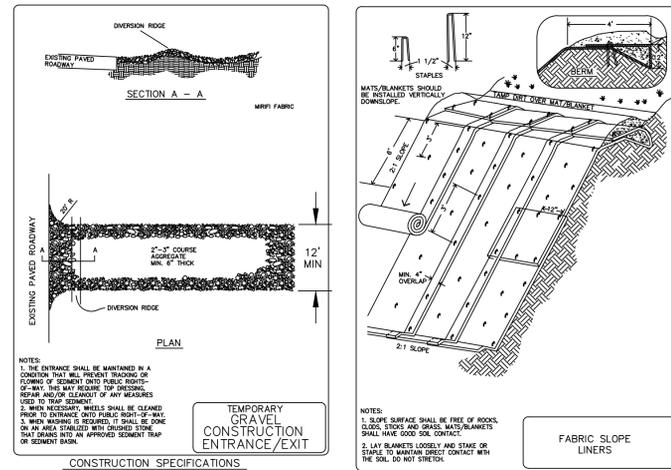
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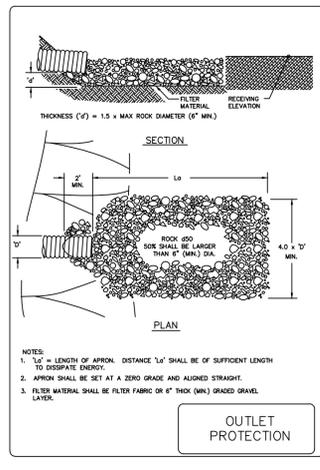


12-12

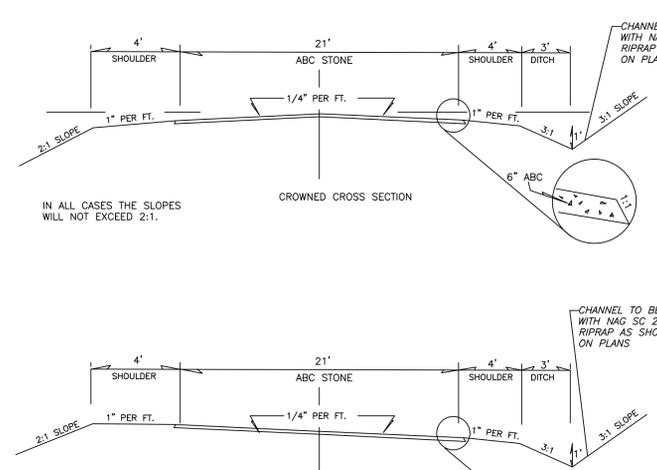
ROAD LAYOUT PHASE 1 PLANS FOR
GREY ROCK SUBDIVISION
 LAKE LURE
 RUTHERFORD COUNTY, NC
ECP DETAILS



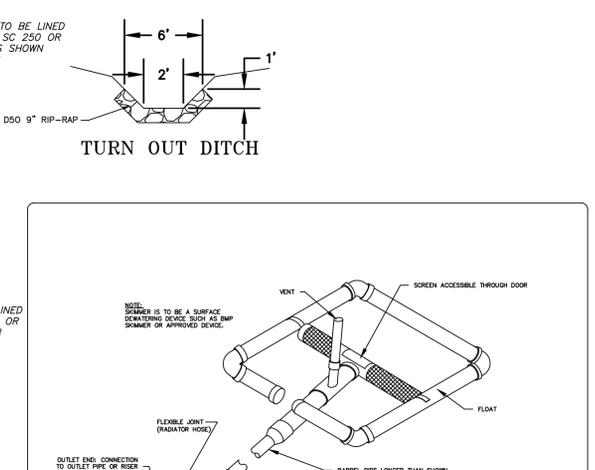
- CONSTRUCTION SPECIFICATIONS**
- Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
 - Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
 - Provide drainage to carry water to the sediment trap.
 - Gravel to be placed on Geotextile cloth.
- CONSTRUCTION SCHEDULE**
- Obtain plan approval and other applicable permits.
 - Install sediment fencing and/or temporary berms for clearing and grubbing phase.
 - Install temporary sediment traps. Ensure access to traps throughout construction.
 - Grade site.
 - Slopes shall have ground cover established within 21 calendar days.
 - Install permanent vegetation on all disturbed areas within 15 working days or no more than 60 calendar days following completion of construction or development.
 - Remove temporary measures only after site is stabilized with vigorous and dense vegetative cover.
 - Estimated time to final stabilization 4 mos.
 - In fill situations contractor shall install a temporary berm above slope to divert any potential runoff that may occur overnight in lieu of inclimate weather.



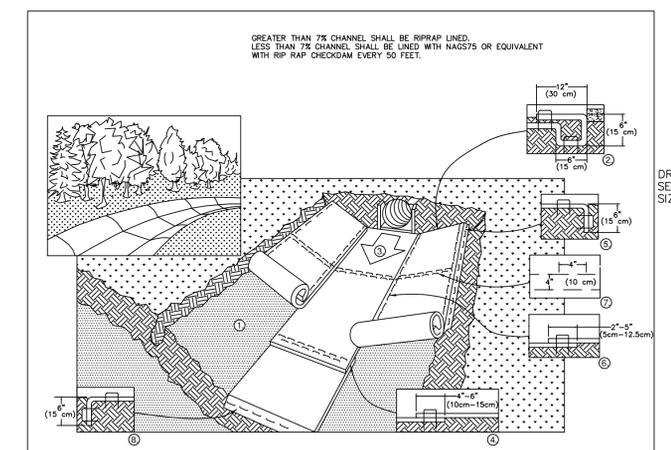
- CONSTRUCTION SPECIFICATIONS**
- Ensure subgrade for the filter and riprap is at zero grade. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing riprap thickness.
 - Filter cloth, when used, must meet design requirements and be protected from puncturing or tearing. All connecting joints should overlap at least 1'.
 - Riprap may be field stone or rough quarry stone. It should be hard, angular, highly weather-resistant and well graded.
 - Construct the apron on zero grade with no over-fall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.
 - Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed, place it in the upper end of the apron.
 - Immediately after construction, stabilize all disturbed areas with vegetation.



- CONSTRUCTION SPECIFICATIONS**
- All erosion and sediment control practices will be checked for stability and operation following every runoff-producing rainfall but in no case less than once every week. Any needed repairs will be made immediately to maintain all practices as designed.
 - Sediment will be removed behind the sediment fence when it becomes about 0.5' deep at the fence. The sediment fence will be repaired as necessary to maintain a barrier.
 - All seeded areas will be fertilized, reseeded as necessary according to specifications in the vegetative plan to maintain a vigorous, dense, vegetative cover.

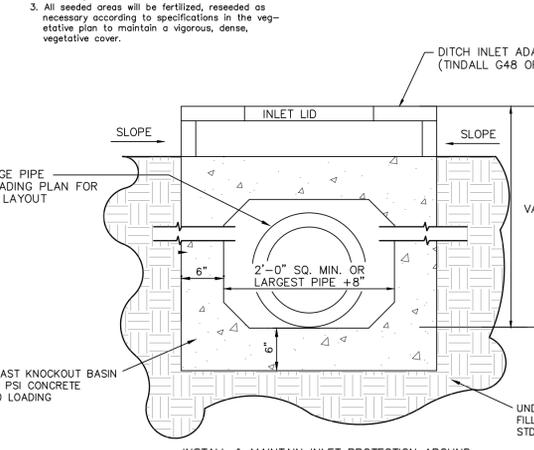


- CONSTRUCTION SPECIFICATIONS**
- Excavate cross section to grades shown on plans. Overcut for thickness of rock and filter.
 - Place filter fabric or gravel filter layer, and rock as soon as the foundation is prepared.
 - Place rock so it forms a dense, uniform, well-graded mass with few voids. Hand placement may be necessary to obtain good size distribution.
 - No overfall of channel construction should exist. Grass lined channels with riprap bottoms must have a smooth contact between riprap and vegetation.
 - Outlet must be stable.
 - Use a foundation of extra strength filter fabric or and aggregate filter layer.

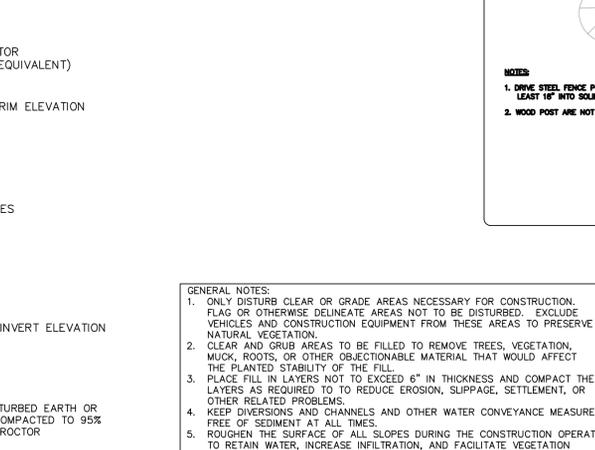
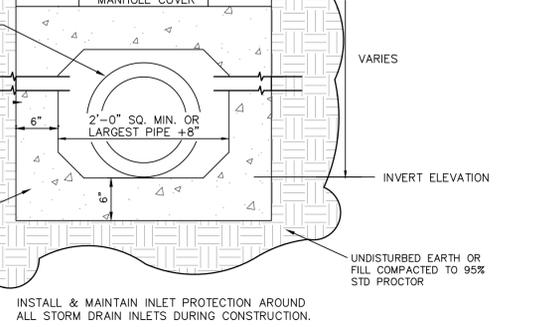


- CONSTRUCTION SPECIFICATIONS**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS.
 - FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDENT ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
 - IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
 - THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

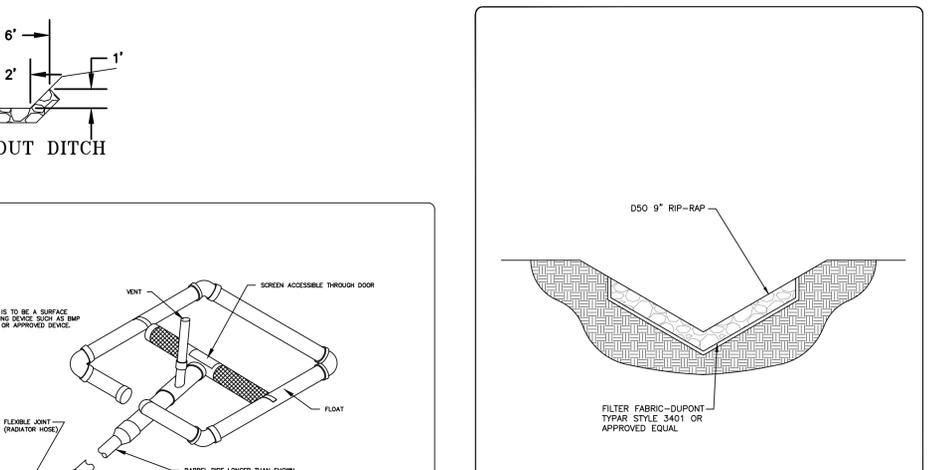
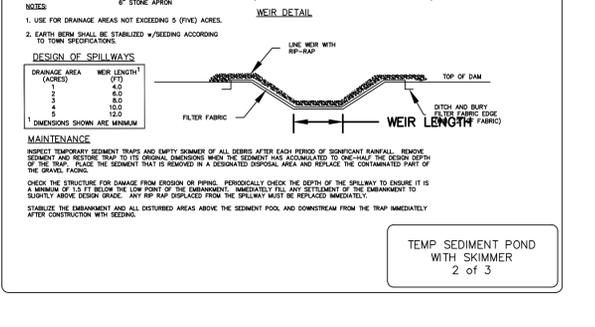
- SEEDING PROCEDURES:**
- Apply seed, at the rates above, in two intersecting directions.
 - Rake in lightly.
 - Do not seed areas in excess of that which can be mulched on same day.
 - Do not sow immediately following rain, when ground is too dry, or during windy periods.
 - Roll seeded area with roller not exceeding 112 lbs.
 - Immediately following seeding and compacting, apply mulch to a thickness of 8/8 inches. Maintain clear of shrubs and trees.
 - Apply water with a fine spray immediately after each area has been mulched. Saturate to 4 inches of soil.
- SEED PROTECTION:**
- Identify seeded areas with stakes and string around area periphery. Set string height to 6 inches.
 - Cover seeded slopes where grade is 4 inches per foot or greater with erosion fabric. Roll fabric onto slopes without stretching or pulling.
 - Lay fabric smoothly on surface, bury top end of each section in 6 inch deep excavated topsoil trench. Provide 12 inch overlap of adjacent rolls. Backfill trench and rake smooth, level with adjacent soil.
 - Secure outside edges and overlaps at 36 inch intervals with stakes.
 - Lightly dress slopes with topsoil to ensure close contact between fabric and soil.
 - All sides of ditches, lay fabric laps in direction of water flow. Lap ends and edges minimum 6 inches.



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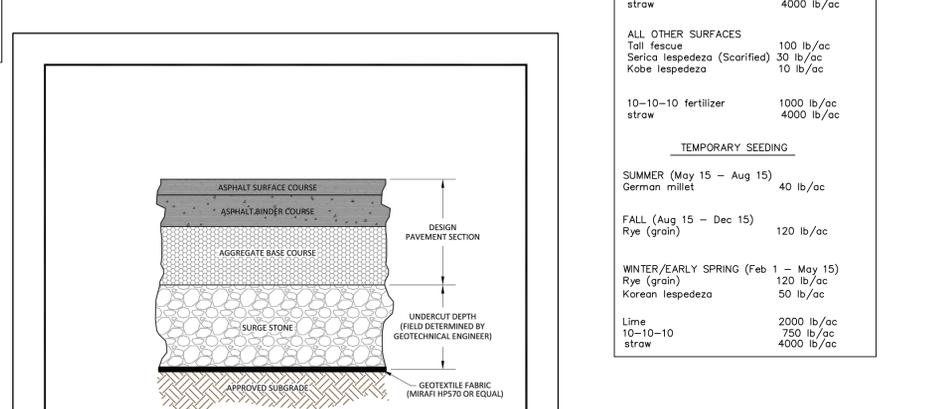
- GENERAL NOTES:**
- ONLY DISTURB CLEAR OR GRADE AREAS NECESSARY FOR CONSTRUCTION. FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
 - CLEAR AND GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION, MUCK, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANTED STABILITY OF THE FILL.
 - PLACE FILL IN LAYERS NOT TO EXCEED 6" IN THICKNESS AND COMPACT THE LAYERS AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, OR OTHER RELATED PROBLEMS.
 - KEEP DIVERSIONS AND CHANNELS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT AT ALL TIMES.
 - ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION ESTABLISHMENT.
 - PERMANENTLY STABILIZE ALL GRADED AREAS IMMEDIATELY AFTER FINAL GRADING IS COMPLETED ON EACH AREA. 2:1 OR STEEPER SLOPES MUST HAVE TEMPORARY GROUND COVER WITHIN 7 DAYS. 3:1 SLOPES OR FLATTER SLOPES MUST HAVE TEMPORARY GROUND COVER WITHIN 14 DAYS



- CONSTRUCTION SPECIFICATIONS**
- Excavate cross section to grades shown on plans. Overcut for thickness of rock and filter.
 - Place filter fabric or gravel filter layer, and rock as soon as the foundation is prepared.
 - Place rock so it forms a dense, uniform, well-graded mass with few voids. Hand placement may be necessary to obtain good size distribution.
 - No overfall of channel construction should exist. Grass lined channels with riprap bottoms must have a smooth contact between riprap and vegetation.
 - Outlet must be stable.
 - Use a foundation of extra strength filter fabric or and aggregate filter layer.



- MAINTENANCE PLAN**
- All erosion and sediment control practices will be checked for stability and operation following every runoff-producing rainfall but in no case less than once every week. Any needed repairs will be made immediately to maintain all practices as designed.
 - Sediment will be removed behind the sediment fence when it becomes about 0.5' deep at the fence. The sediment fence will be repaired as necessary to maintain a barrier.
 - Ensure temporary sediment trap is cleared once sediment reaches outlet point.
 - All seeded areas will be fertilized, reseeded as necessary according to specifications in the vegetative plan to maintain a vigorous, dense, vegetative cover.



PERMANENT SEEDING

GRASS-LINED CHANNELS	
Kentucky bluegrass	20 lb/ac
Rye (grain)	40 lb/ac
Lime	4000 lb/ac
10-10-10 fertilizer	1200 lb/ac
straw	4000 lb/ac
ALL OTHER SURFACES	
Tall fescue	100 lb/ac
Sericea lespedeza (Scarified)	30 lb/ac
Kobe lespedeza	10 lb/ac
10-10-10 fertilizer	1000 lb/ac
straw	4000 lb/ac
TEMPORARY SEEDING	
SUMMER (May 15 - Aug 15)	
German millet	40 lb/ac
FALL (Aug 15 - Dec 15)	
Rye (grain)	120 lb/ac
WINTER/EARLY SPRING (Feb 1 - May 15)	
Rye (grain)	120 lb/ac
Korean lespedeza	50 lb/ac
Lime	2000 lb/ac
10-10-10 straw	750 lb/ac
	4000 lb/ac

SCALE: N.T.S.
 DATE: 04/12/12
 DRAWN BY: JTP
 CHECKED BY: DWO
 PROJECT MGR: DWO
 SHEET: 8 OF 8

