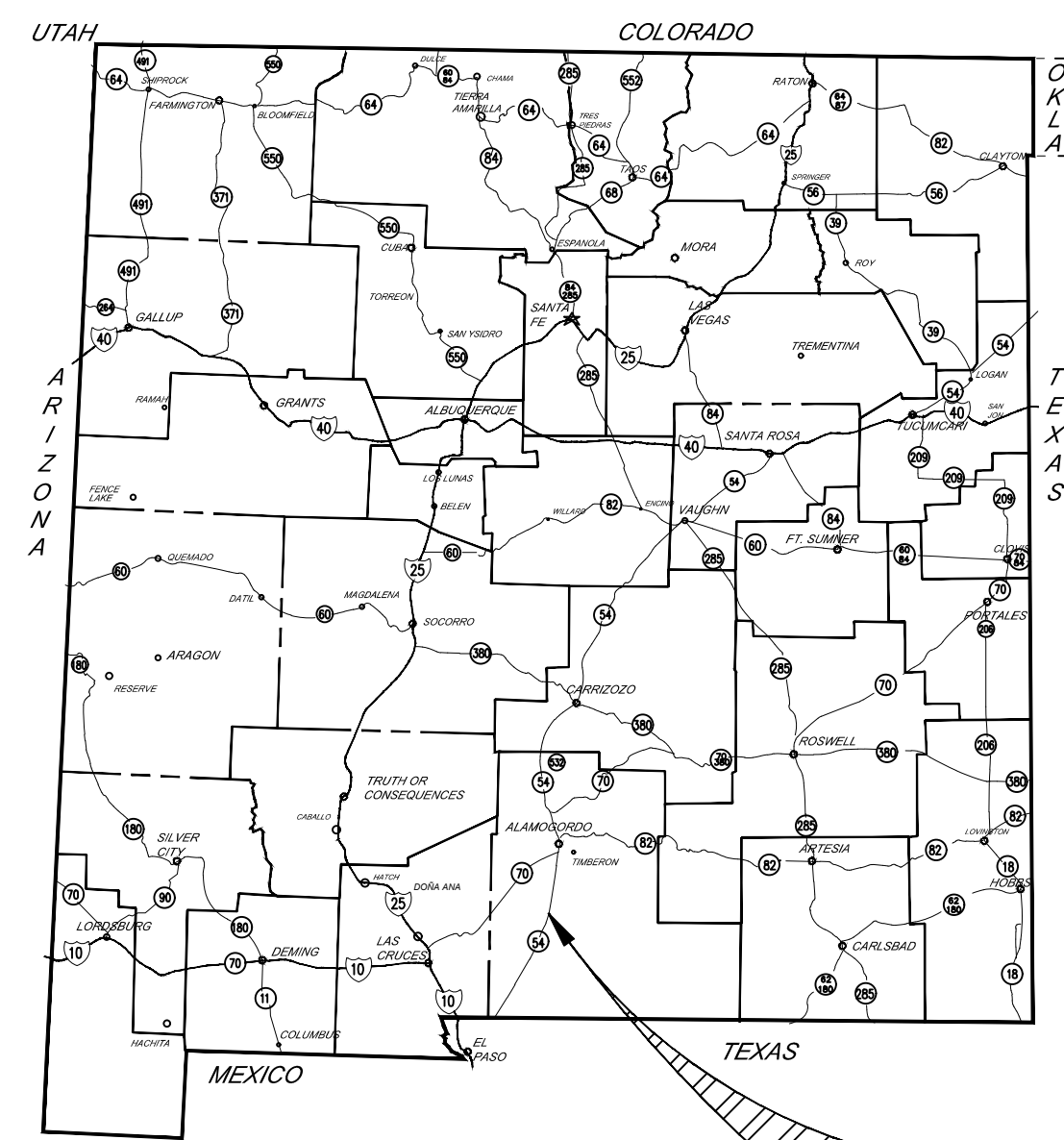
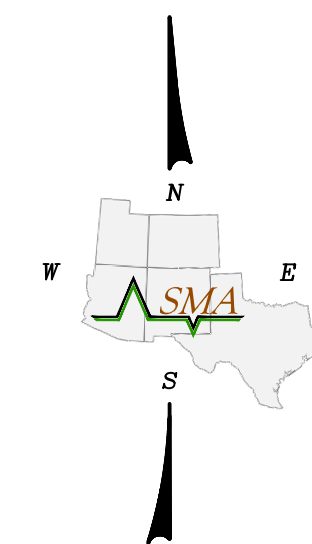


REBID OF OTERO/GREENTREE REGIONAL LANDFILL CELLS NO. 1 AND NO. 2 CLOSURE OTERO COUNTY, NEW MEXICO FEBRUARY 2021



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SHEET INDEX

SHEET NO. DRAWING

| | |
|-------|--|
| C 100 | TITLE SHEET |
| C 101 | GENERAL NOTES AND DETAILS |
| C 200 | 2020 SURVEY CONTROL SHEET |
| C 201 | SITE PLAN AND HAUL ROUTE |
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| C 501 | WEST TO EAST ALIGNMENT CROSS SECTIONS A THRU C |
| C 502 | WEST TO EAST ALIGNMENT CROSS SECTIONS D THRU E |

PREPARED FOR
CITY OF ALAMOGORDO
2600 NORTH FLORIDA AVE.
ALAMOGORDO, NEW MEXICO 88310
TELE: (575) 439-4240

PREPARED BY:
THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION
AND SUPERVISION ON BEHALF OF SOUDER, MILLER AND ASSOCIATES.

PAUL J. POMPEO, NEW MEXICO PE 11490

02/11/2021
DATE



To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

| Rev # | Date | Description | By | CHKD |
|-------|-------|------------------|-----|------|
| 1 | 05/21 | ISSUED FOR REBID | SVG | PJP |

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ALAMOGORDO, NEW MEXICO
GREENTREE REGIONAL LANDFILL CELLS NO. 1 AND NO. 2
OTERO COUNTY, NEW MEXICO
TITLE SHEET



02/11/2021

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| | | |
|----------|-------|---------|
| Designed | Drawn | Checked |
| PP | JDW | SG |

Date: May 2021

Scale: N.T.S.
N.T.S.

Project No: 4328859

Sheet: **C100**

PROJECT DESCRIPTION

THE CLOSURE OF OTERO GREENTREE REGIONAL LANDFILL CELLS NO. 1 AND NO. 2 ENTAILS THE PREPARATION AND COMPACTION OF THE EXISTING INTERMEDIATE SURFACE, THE INSTALLATION AND COMPACTION OF A 24" THICK BARRIER SOIL LAYER, OVERLAID WITH A 6" THICK LOOSE TOP SOIL VEGETATION LAYER. DRAINAGE INFRASTRUCTURE, SUCH AS GRADING, SHOULD BE INSTALLED IN AN EFFORT TO PROMOTE POSITIVE DRAINAGE PATTERNS ROUTING RUNOFF TO EXISTING DRAINAGE SWALES LOCATED ADJACENT TO THE CELLS.

REVEGETATION SEED MIX

THE FINAL CLOSURE GRADING AND DRAINAGE PLAN AS SHEET C300 PRESENTS THE FINISHED SLOPES AND DRAINAGE IMPROVEMENTS TO PROTECT THE LANDFILL COVER. THE RESISTANCE OF THE OUTER LAYER TO EROSION FROM WIND AND SURFACE WATER IS CRITICAL IN THE PROTECTION OF THE INFILTRATION LAYER. THIS RESISTANCE IS ACHIEVED BY THE DEVELOPMENT OF A VIABLE VEGETATIVE COVER WITH A SHALLOW ROOT SYSTEM, WHICH BINDS THE SOIL PROFILE. THE RECOMMENDED SEED MIX AND PLANTING RATE TO BE USED FOLLOWING TABLE 3-1. THE SEED MIX WILL BE DROUGHT RESISTANT AND REQUIRE LITTLE OR NO FERTILIZATION. THE FOLLOWING SEED MIX WILL BE APPLIED TO THE SURFACE OF THE VEGETATIVE/EROSION SOIL LAYER, BY THE CITY OF ALAMOGORDO AT A LATER DATE AND WILL NOT BE INCLUDED IN THE CONTRACT FOR THE CLOSURE OF CELLS 1 AND 2. THE FOLLOWING INFORMATION HAS BEEN PROVIDED FOR CLARIFICATION PURPOSES ONLY.

TABLE 3-1 RECOMMENDED SEED MIX AND PLANTING RATE

| COMMON NAME | LATIN NAME | BROADCAST APPLICATION RATE (LBS/ACRE) |
|--------------------|-------------------------|---------------------------------------|
| BLUE GRAMA, NATIVE | BOUTELOUA GRACILIS | 3.6 |
| SIDEOATS GRAMA | BOUTELOUA CURTIPENDULA | 3.0 |
| LITTLE BLUESTEM | SCHIZACHYRIUM SCOPARIUM | 1.8 |
| | PLEURAPHIS JAMESII | 1.8 |
| SAND DROPSEED | SPOROBOLUS CRYPTANDRUS | 0.6 |
| ALKALI SACATON | SPOROBOLUS AIROIDES | 1.2 |
| | TOTAL | 12.0 |

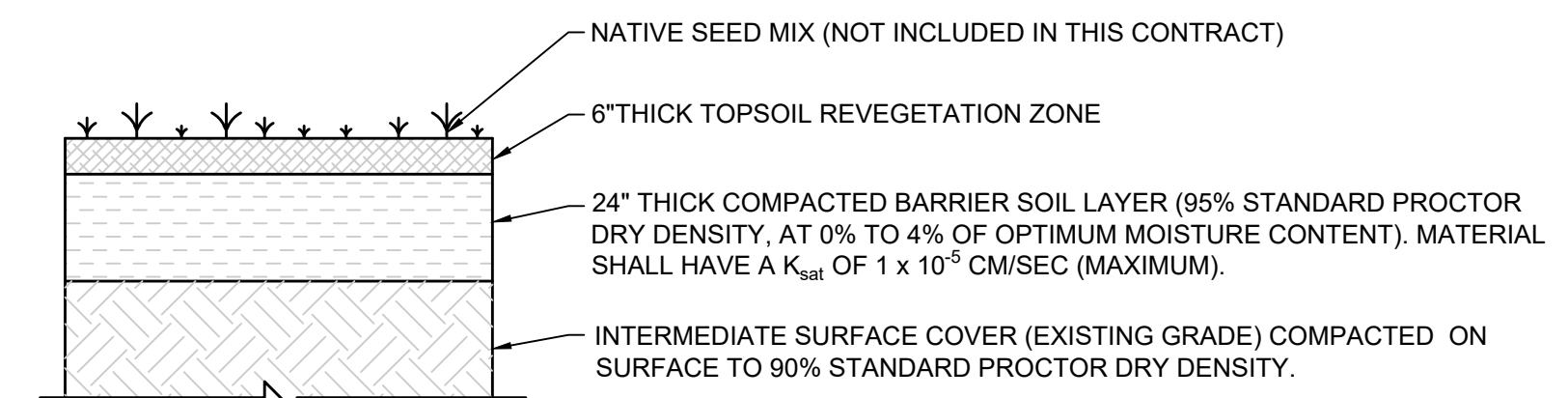
THE SEEDED AREAS SHALL BE COVERED WITH STRAW, MULCH OR CHIPPED LANDSCAPE DEBRIS TO INCREASE MOISTURE RETENTION IN THE SOIL. IF DEEMED APPROPRIATE, COMMERCIAL FERTILIZER CAN BE APPLIED TO THE PLANTED AREA IN ACCORDANCE WITH THE MANUFACTURER'S SUGGESTED APPLICATION RATES. THE PLANTING OF THE GRASS SEED MIXTURE (OR EQUIVALENT) LISTED ABOVE WILL PROMOTE EROSION RESISTANCE OF THE FINAL COVER SYSTEM. DUE TO THE ARID CLIMATE OF THE AREA AND BASED ON EXISTING NATIVE VEGETATIVE COVERAGE AND THE PERMIT RENEWAL APPLICATION, GORDON ENVIRONMENTAL, INC., 2013), ONLY APPROXIMATELY 50% FINAL VEGETATIVE COVERAGE OF THE FINAL LANDFILL CAP IS ANTICIPATED

NOTE:
APPLY SEED WITH A BRILLION SEEDER, "WHIRLWIND" TYPE SPREADER OR A DRILL SEEDER (DEPENDING ON AVAILABILITY AND THE SIZE OF THE PROJECT). APPLY 1/2 OF THE SEED AT A TIME, GOING OPPOSITE DIRECTIONS WITH EACH PASS IF POSSIBLE. RAKE OR DRAG LIGHTLY TO COVER SEED TO A DEPTH OF NO MORE THAN 1/4 INCH. LIGHTLY ROLL THE ENTIRE SURFACE TO FIRM THE SEEDBED WHEN POSSIBLE. IT IS RECOMMENDED TO PLANT IN LATE JUNE TO PROMOTE ESTABLISHMENT.

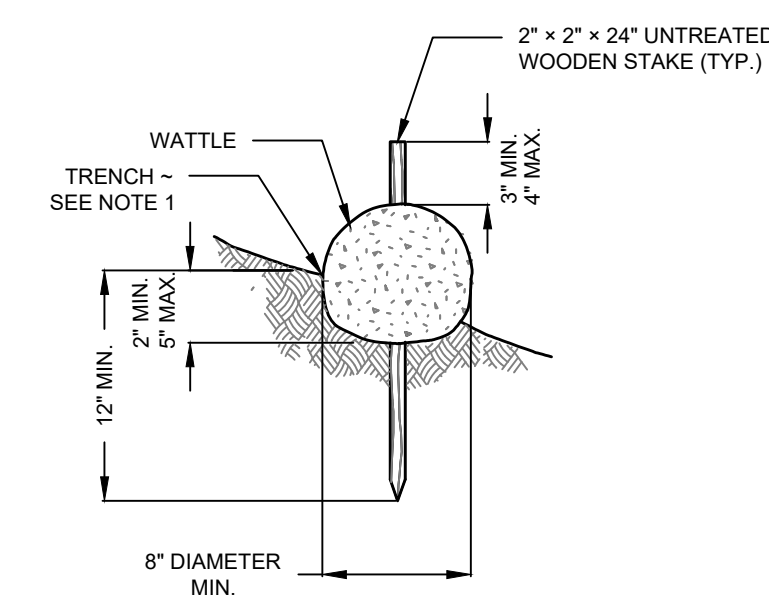
GENERAL NOTES

1. SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON PROVIDED BY THE ENGINEER THAT WILL ACT AS A CONSTRUCTION OBSERVER WHO WILL BE THE CONTACT FOR QUESTIONS FROM THE CONTRACTOR TO THE ENGINEER.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) SECTIONS 701, 801 AND 802.
3. CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION, AND VERIFICATION. CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, INC. AT 1-800-321-2537, AND ALL LOCAL UTILITY PROVIDERS, THREE (3) DAYS BEFORE STARTING UTILITY LINE CONSTRUCTION.
4. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE CLEARED PROPERLY.
5. EROSION CONTROL SHALL BE IMPLEMENTED TO PROTECT PROJECT AREA, PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL ENSURE ALL EXISTING IMPROVEMENTS ARE COMPLETED AS SHOWN IN THE DESIGN PLANS. ALL COVER SHALL BE INTACT AND ADDITIONAL MATERIAL SHALL BE ADDED IF NEEDED. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO EXTRA PAYMENT WILL BE MADE.
7. ENTIRE AREA WITHIN CELL 1 AND 2 SHALL HAVE 6" OF TOP SOIL MATERIAL FOR REVEGETATION OF SITE.
8. RESEEDING THE SITE SHALL BE CERTIFIED WEED FREE AND SEED LOT SHALL BE PROVIDED TO OWNER. IT IS SMA'S UNDERSTANDING THAT THE CITY OF ALAMOGORDO INTENDS TO SEED THE SITE AT A LATER DATE. INFORMATION ASSOCIATED WITH THE RESEEDING OF CELLS 1 AND 2 HAVE BEEN PROVIDED FOR CLARIFICATION PURPOSES ONLY. WORK ASSOCIATED WITH RESEEDING CELLS 1 AND 2 IS NOT INCLUDED IN THIS CONTRACT.
9. THE EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED INCIDENTAL, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE CONSIDERED INCIDENTAL AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS.
11. ALL CONSTRUCTION EXISTING GROUND LINE PROFILES SPECIFIED ON THE PLAN AND PROFILE SHEETS HAVE BEEN DERIVED FROM AN ELECTRONIC DIGITAL TERRAIN MODEL AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, EXISTING GROUND LINE PROFILES PRIOR TO CONSTRUCTION STAKING, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE. CONTRACTOR SHALL NOTIFY AND SUBMIT VERIFIED ELEVATIONS TO THE OWNER'S PROJECT MANAGER.
12. ALL EARTHWORK QUANTITIES REFERENCED HEREIN REPRESENT IN-PLACE COMPACTED SOIL.
13. ALL DIMENSIONS ON PLANS ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL OTHER PERTINENT INFORMATION THAT MAY BE REQUIRED TO COMPLETE THE WORK.
14. ALL DISTURBANCES SHALL BE LIMITED TO PROJECT BOUNDARIES. ACCESS ROADS SHALL MINIMIZE DAMAGE TO EXISTING VEGETATION. DISTURBANCES FROM LANDFILL SITE TO BORROW SITE SHALL BE MINIMAL. ALL DISTURBED AREAS SHALL BE GRADED TO NATURAL TERRAIN AND BE RE-VEGETATED LEAVING MINIMAL IMPACT TO SURROUNDING AREAS. THIS WORK WILL BE CONSIDERED INCIDENTAL AND NO EXTRA PAYMENT WILL BE MADE.
15. MATERIAL PROPERTY REQUIREMENTS SHALL BE IN ACCORDANCE WITH N.M.A.C 20.9.6.9.A(1) OR AS PROVIDED WITHIN THE PROJECT TECHNICAL SPECIFICATIONS.
16. MATERIAL TESTING FREQUENCIES (MINIMUM) SHALL BE IN ACCORDANCE WITH N.M.A.C 20.9.4.14 B(3) OR AS PROVIDED WITHIN THE PROJECT CONSTRUCTION QUALITY ASSURANCE/QUALITY CONTROL PLAN.
17. EARTHWORK AND TOPOGRAPHIC SURVEYS SHALL BE COMPLETED IN THREE MAJOR PHASES: INTERMEDIATE SURFACE COMPACTION, COMPACTED BARRIER SOIL LAYER AND TOPSOIL LAYER. CONTRACTOR SHALL PROVIDE PROJECT ENGINEER COMPLETE CONSTRUCTION MATERIAL TESTING REPORTS AND A TOPOGRAPHIC SURVEY FOR EACH PHASE OF COVER INSTALLATION INDICATING PASSING RESULTS. CONSTRUCTION OF SUBSEQUENT LAYERS SHALL NOT COMMENCE UNTIL THE PROJECT ENGINEER HAS RECEIVED AND ACCEPTED SUCH REPORTS AND TOPOGRAPHIC SURVEY. ANY EARTHWORK DONE PRIOR TO PROJECT ENGINEER ACCEPTANCE SHALL BE CONSIDERED AT RISK BY CONTRACTOR.
18. AFTER EACH RAINFALL EVENT, THE FINAL CAP AREA SHALL BE INSPECTED TO ENSURE EROSION HAS NOT CREATED AREAS OF CONCENTRATED FLOWS. IN THE EVENT THAT CONCENTRATED FLOWS HAVE DEVELOPED, THOSE AREAS SHALL BE MITIGATED TO RETURN THE STORMWATER RUNOFF TO A SHEET FLOW CONDITION.

PROJECT DETAILS



1 FINAL CAP DETAIL
C101 NOT TO SCALE



2 STRAW WATTLE DETAIL
C101 NOT TO SCALE

NOTES:

1. INSTALL WATTLES ALONG CONTOURS.
2. SECURELY KNOT EACH END OF WATTLE OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
3. COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
4. INSTALL WATTLE PERPENDICULAR TO FLOW ALONG CONTOURS.
5. WATTLES SHALL BE INSPECTED REGULARLY AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.



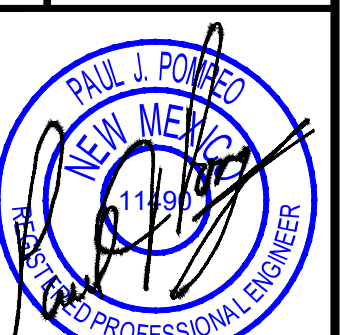
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| Rev # | Date | Description | By | CHKD |
|-------|-------|------------------|-----|------|
| 1 | 05/21 | ISSUED FOR REBID | SVG | PJP |

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ALAMOGORDO, NEW MEXICO
GREENTREE REGIONAL LANDFILL CELLS NO. 1 AND 2
 OTERO COUNTY, NEW MEXICO
 GENERAL NOTES AND DETAILS

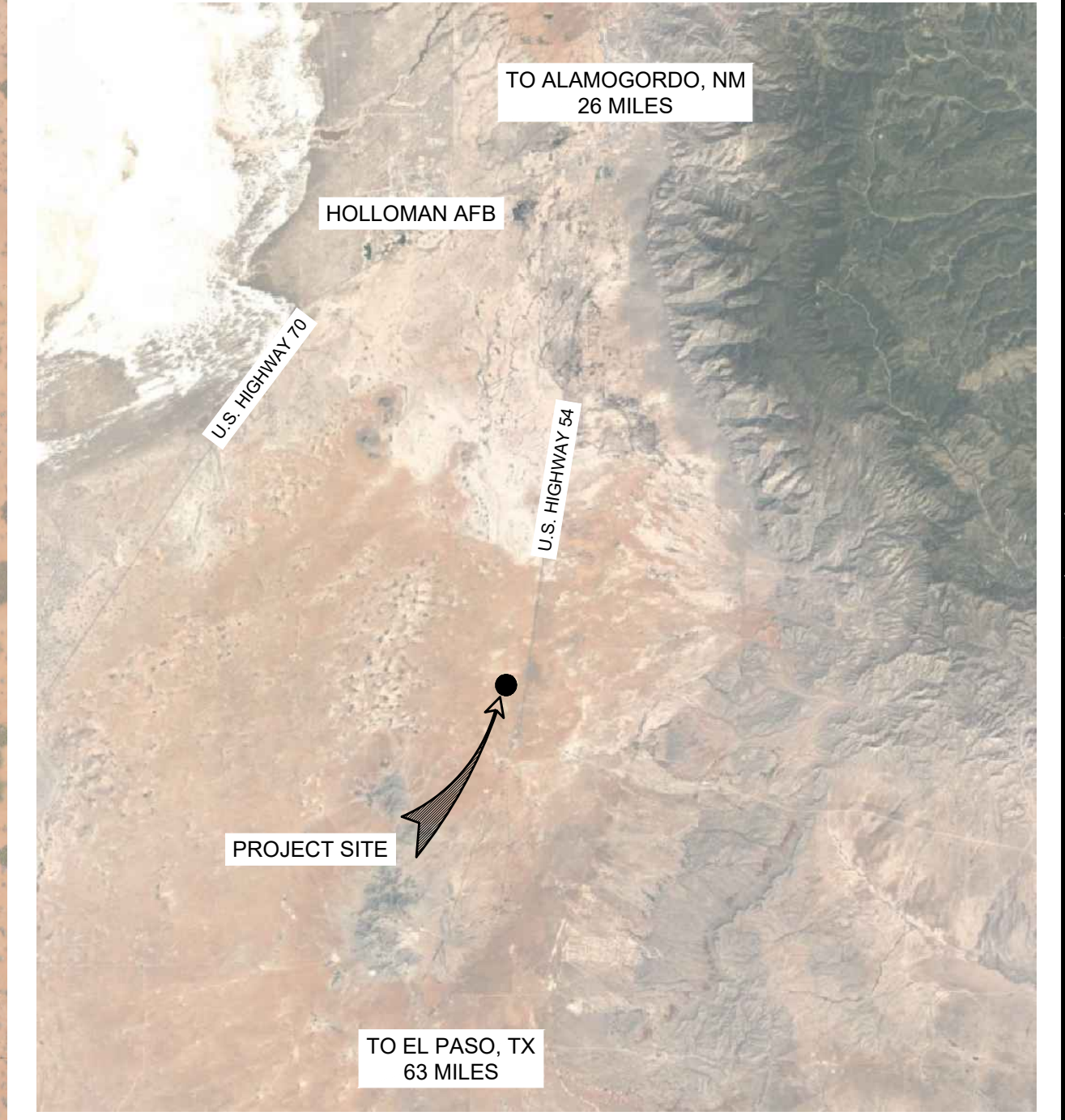
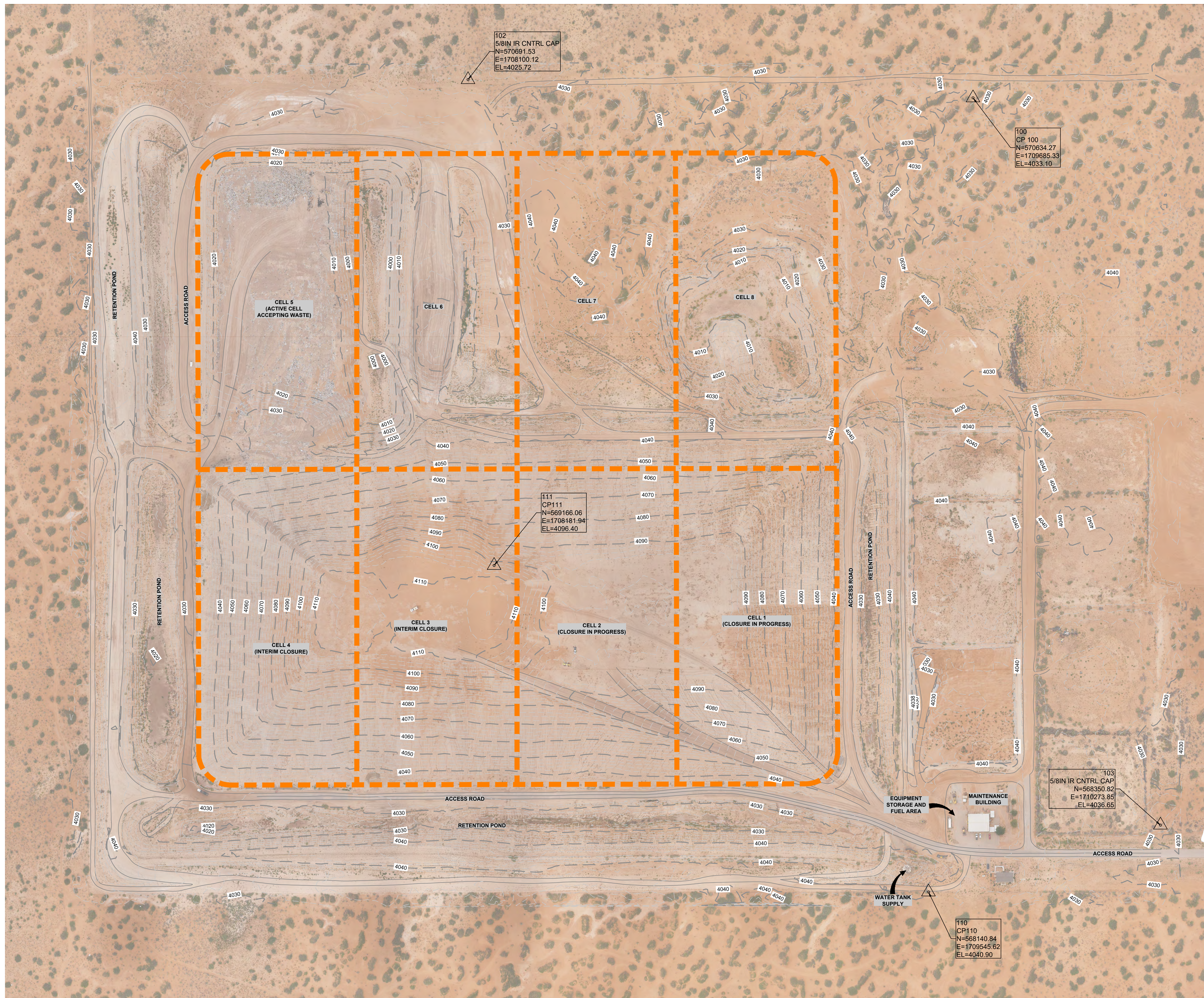


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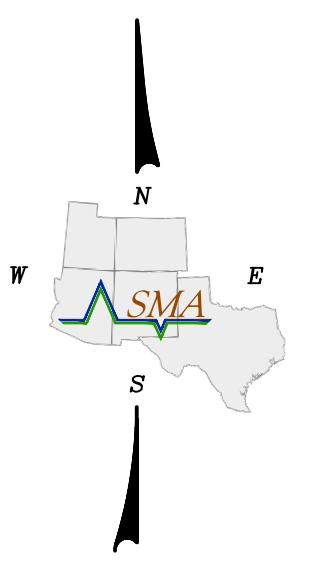
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| Designed | Drawn | Checked |
| PP | JDW | SG |

Date: May 2021
 Scale: N.T.S.
 Project No: 4328859
 Sheet: C101



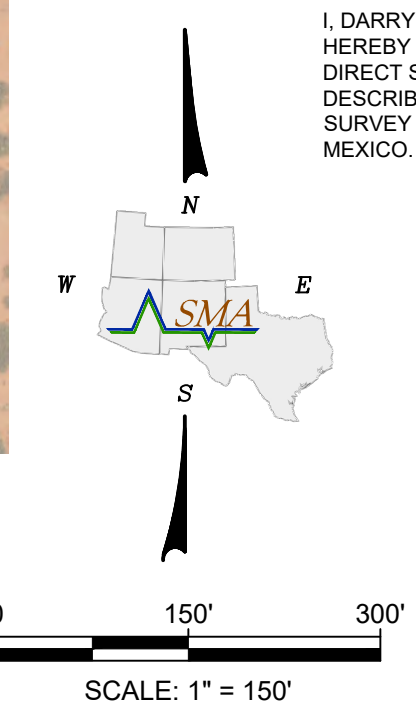
VICINITY MAP
NOT TO SCALE



| Control Point Table | | | | |
|---------------------|-----------|-----------|------------|--------------------|
| Point # | Elevation | Northing | Easting | Description |
| 100 | 4033.10 | 570634.27 | 1709685.33 | CP 100 |
| 102 | 4025.72 | 570691.53 | 1708100.12 | 5/8IN IR CNTRL CAP |
| 103 | 4036.65 | 568350.82 | 1710273.85 | 5/8IN IR CNTRL CAP |
| 110 | 4040.90 | 568140.84 | 1709545.62 | CP110 |
| 111 | 4096.40 | 569166.06 | 1708181.94 | CP111 |

COORDINATE SYSTEM

COORDINATES BASED ON A MODIFIED STATE PLANE
 ON THE NEW MEXICO STATE PLANE NAD 83 CENTRAL ZONE (3002)
 DISTANCES ARE US SURVEY FEET AND DISTANCES ARE GROUND
 BEARING BASED ON GRID NORTH
 GRID TO GROUND SCALE FACTOR 1.0001480011 SCALE AT CP POINT 100
 N=570634.270, E=1709685.330, ELEV= 4033.100
 (N32°34'06.69234", W106°01'29.57714")
 ELEVATIONS BASED ON NAVD83, USING GEOID 12A
 PROJECT HEIGHT 3957.701



I, DARRYL D. COSTER, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21204, DO HEREBY CERTIFY THAT THIS CONTROL SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION BASED ON AN ACTUAL SURVEY ON THE GROUND AS DESCRIBED HEREIN, THAT I AM RESPONSIBLE FOR THIS SURVEY, AND THAT THE SURVEY AND REPORT MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

| Rev # | Date | Description | By | CHKD |
|-------|-------|------------------|-----|------|
| 1 | 09/21 | ISSUED FOR REBID | SVG | DDC |

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ALAMOGORDO, NEW MEXICO
 OTERO COUNTY
OTERO GREENTREE REGIONAL LANDFILL
 OTERO COUNTY, NEW MEXICO
 2020 SURVEY CONTROL SHEET

| | | |
|---|---------------|----------------|
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| Designed DDC | Drawn SVG | Checked DDC |
| Date: | November 2020 | |
| Scale: Horiz: | N/A | |
| Scale: Vert: | N/A | |
| Project No: | 4328859 | |
| Sheet: | C100 | |



NOTE: ALLOWABLE HAUL ROUTE AS SHOWN FROM BORROW SOURCE TO PROJECT AREA



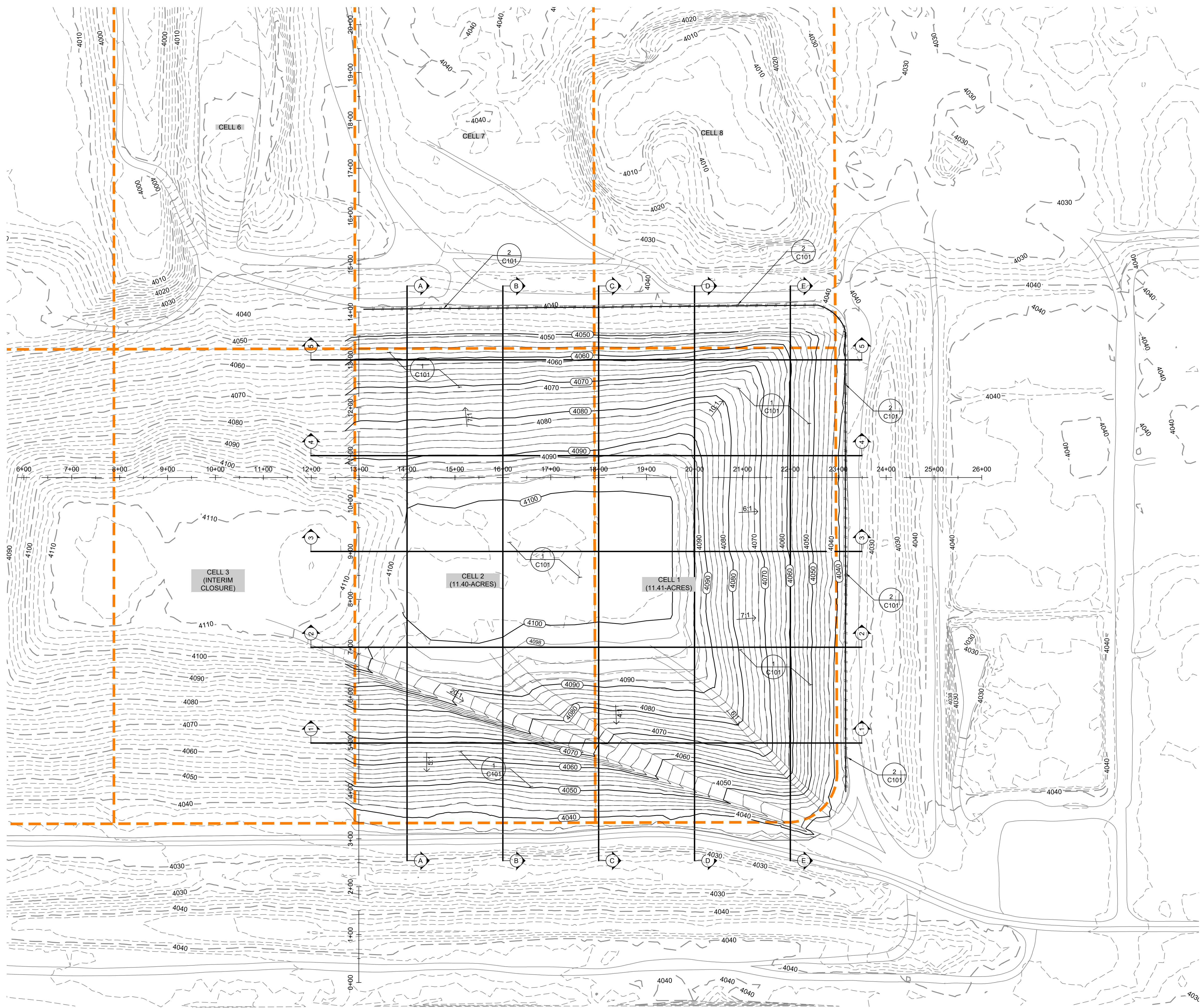
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 OTERO COUNTY, NEW MEXICO
 SITE PLAN AND HAUL ROUTE

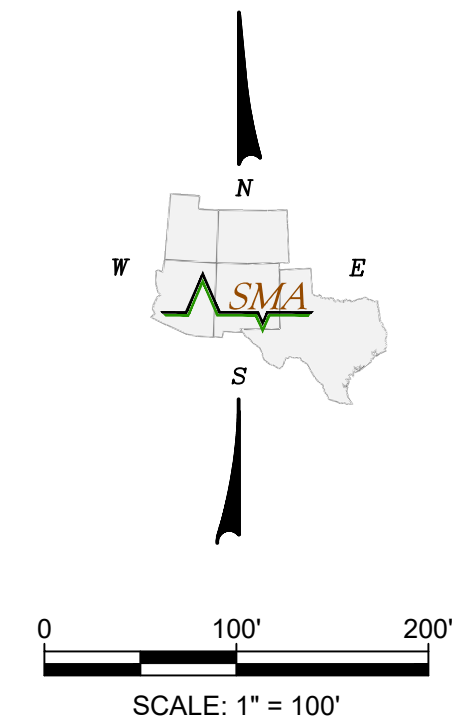


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 Date: May 2021
 Scale: Horiz: N/A Vert: N/A
 Project No: 4328859
 Sheet: C201



LEGEND

| | | |
|--|------|---|
| | 4130 | = EXISTING GRADE MAJOR CONTOUR |
| | 4129 | = EXISTING GRADE MINOR CONTOUR |
| | 4130 | = DESIGN SOIL BARRIER COVER MAJOR CONTOUR |
| | 4129 | = DESIGN SOIL BARRIER COVER MINOR CONTOUR |
| | | = CELL BOUNDARY LIMITS |
| | | = CROSS SECTION CALLOUT |
| | | = DETAIL CALLOUT |
| | | = STRAW WATTLE |



Cut/Fill Summary

| Item | Cut Factor | Fill Factor | 2d Area | Cut | Fill | Net |
|-------------------------------|------------|-------------|--------------------|---------------|-------------------|--|
| 24inch Compacted Soil Barrier | 1.000 | 1.000 | 1054329.83 Sq. Ft. | 0.80 Cu. Yd. | 84532.43 Cu. Yd. | 84531.63 Cu. Yd. $Vd.$ $CF1111$ |
| 6inch Top Soil Layer | 1.000 | 1.000 | 1054214.30 Sq. Ft. | 12.79 Cu. Yd. | 19155.67 Cu. Yd. | 19142.88 Cu. Yd. $Vd.$ $CF1111$ |
| Totals | | | 2108544.12 Sq. Ft. | 13.54 Cu. Yd. | 103688.28 Cu. Yd. | 103674.74 Cu. Yd. $Vd.$ $CF1111$ |



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|---------------|------------------|-----|
| By: CHK | SVG | PJP |
| Description: | ISSUED FOR REBID | |
| Rev # Date: | 1 05/21 | |

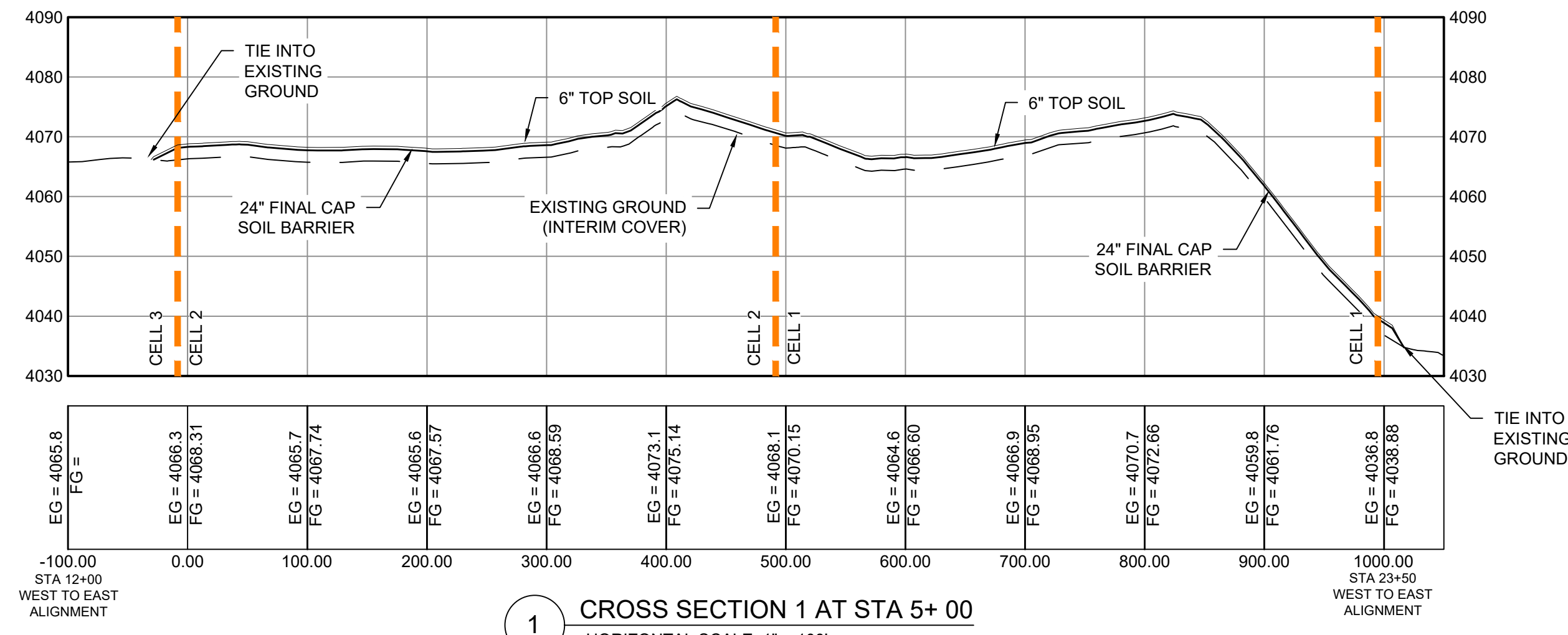
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ALAMOGORDO, NEW MEXICO
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 OTERO COUNTY, NEW MEXICO
FINAL COVER GRADING PLAN

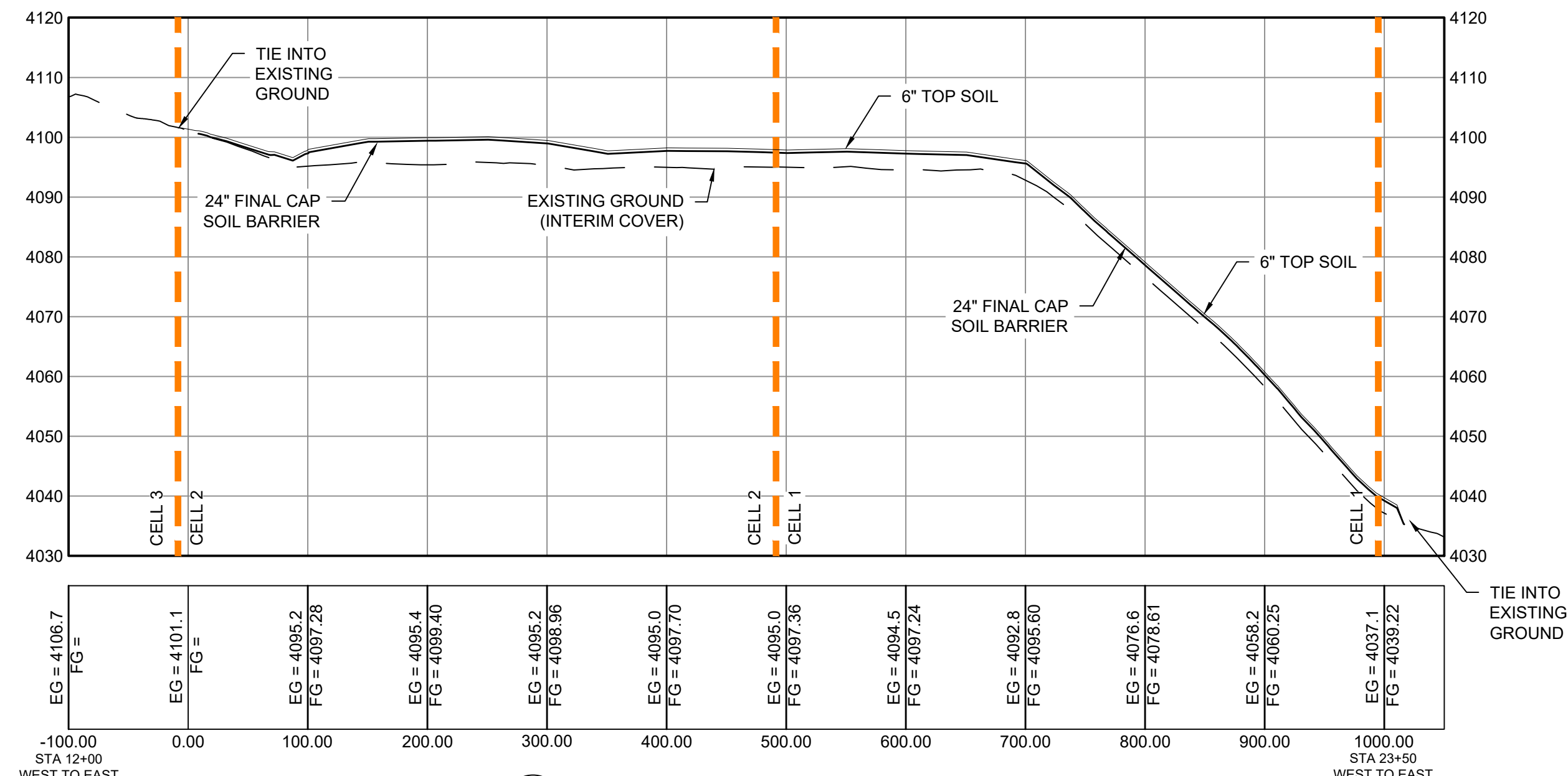
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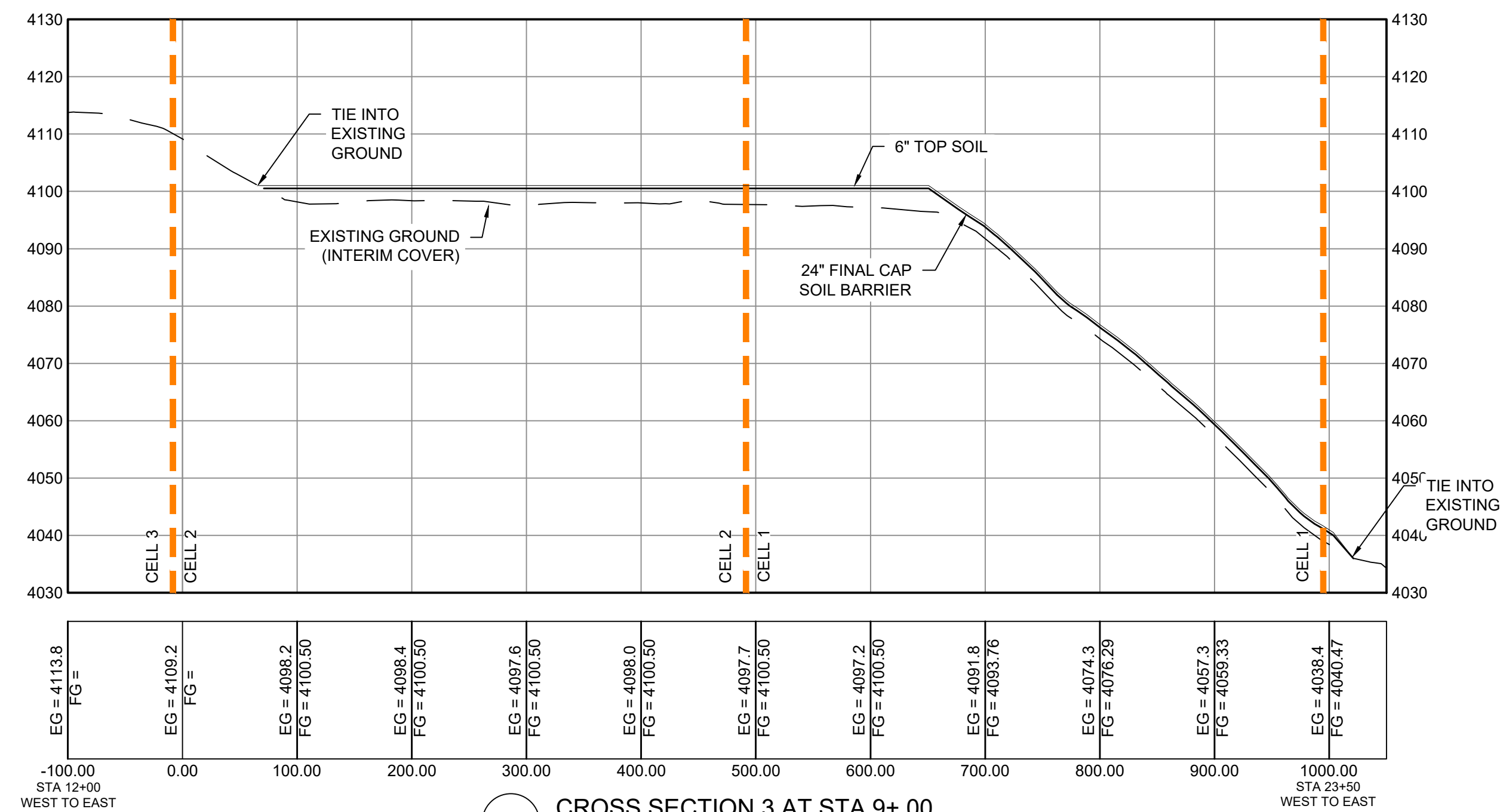
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 Scale: Horiz: 1" = 100'
 Vert: N/A
 Project No: 4328859
 Sheet: C300



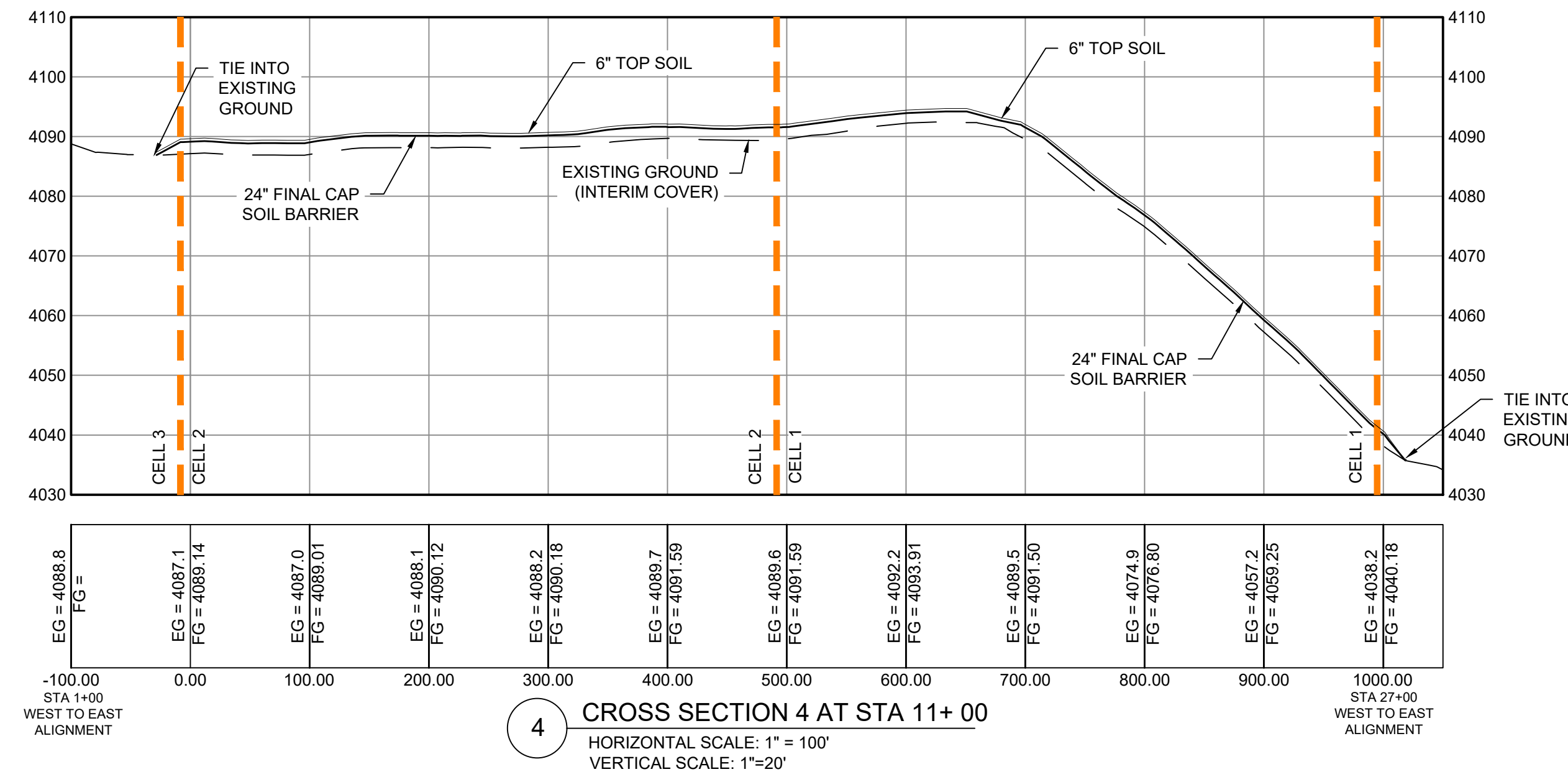
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HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 20'



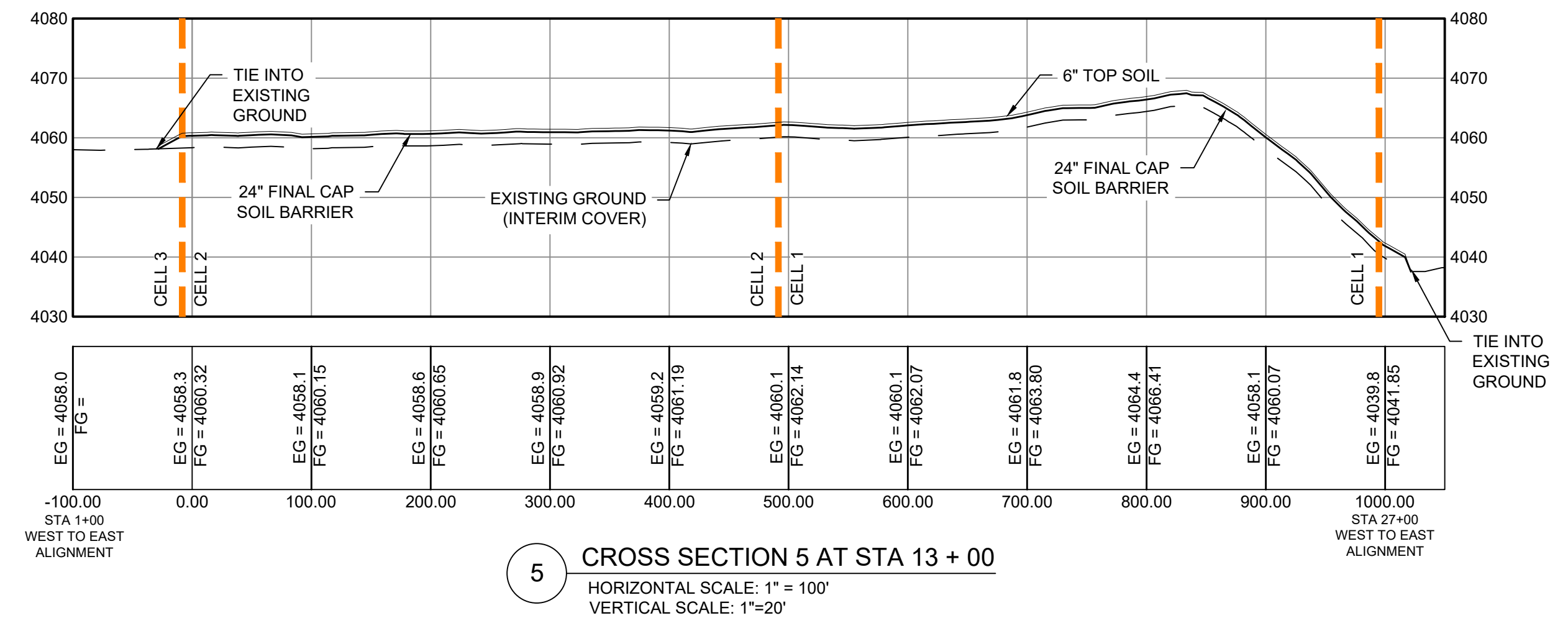
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VERTICAL SCALE: 1" = 20'



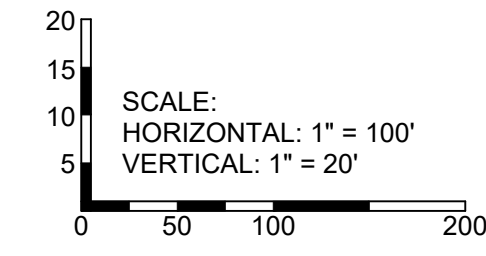
3 CROSS SECTION 3 AT STA 9+00
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 20'



4 CROSS SECTION 4 AT STA 11+00
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 20'



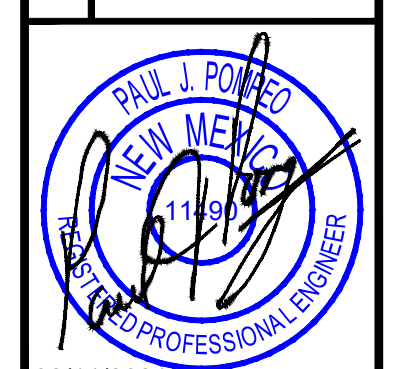
5 CROSS SECTION 5 AT STA 13+00
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 20'



| | |
|-------------|------------------|
| By | CHKD |
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| Rev# | Date |
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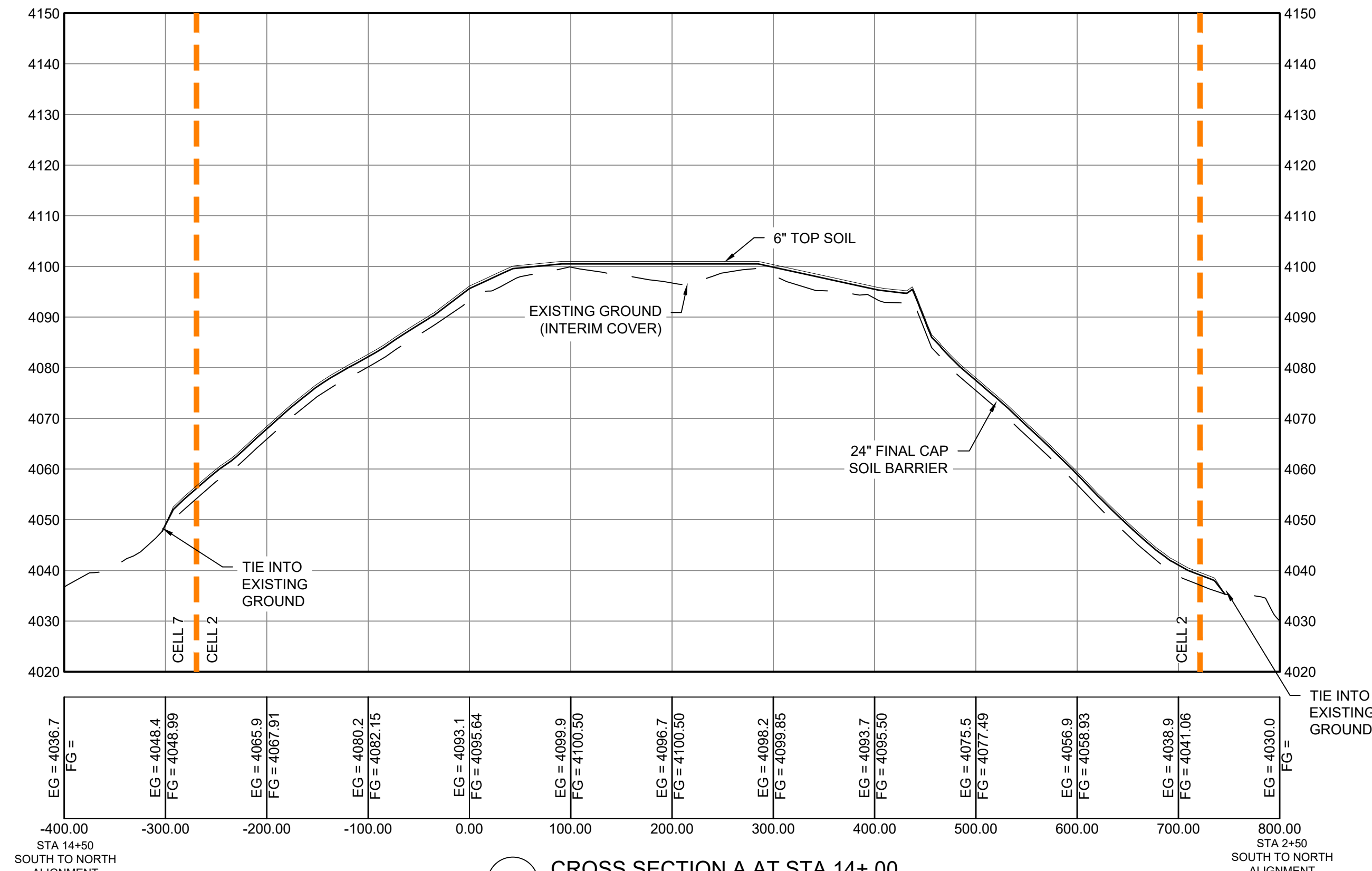
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SOUTH TO NORTH ALIGNMENT
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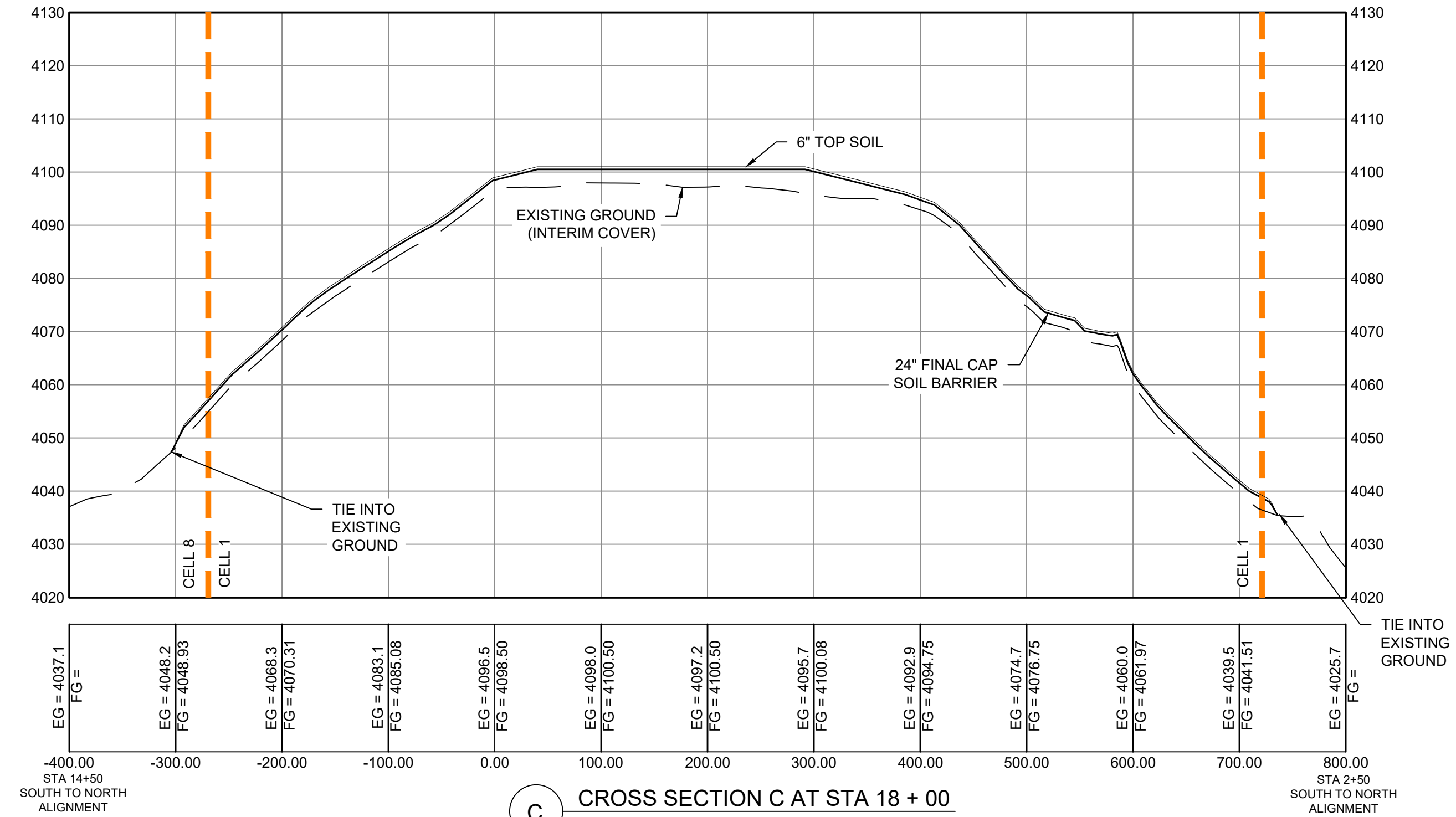
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| Scale: Horiz: 1" = 100' | Vert: 1" = 20' | |
| Project No: 4328859 | | |
| Sheet: C500 | | |



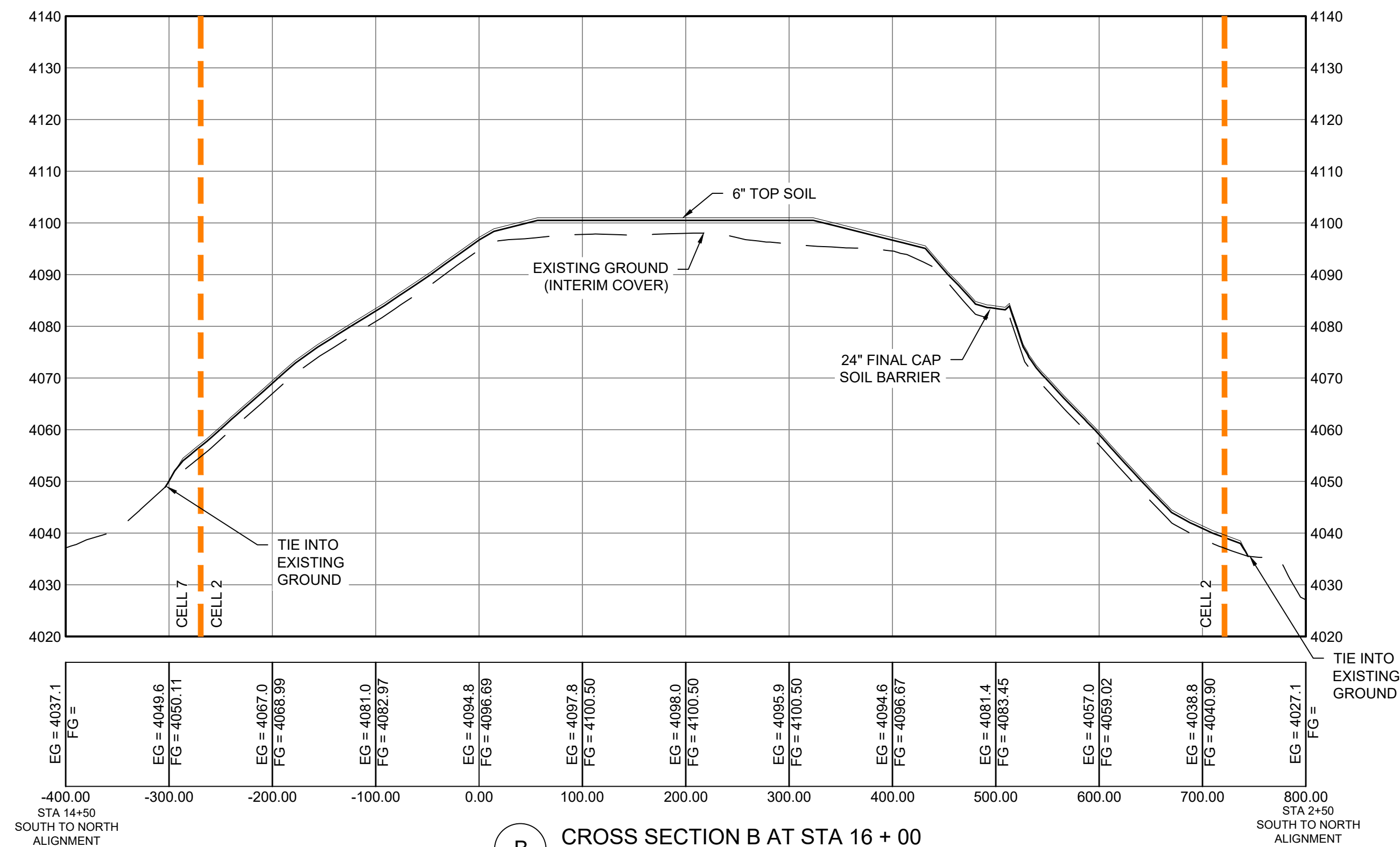
To Request a Line Locate Dial 811
New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.



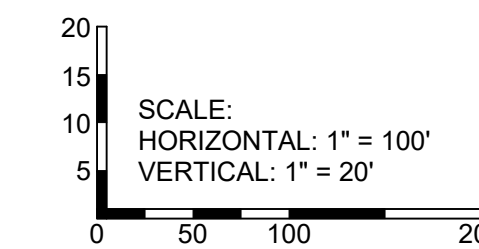
A CROSS SECTION A AT STA 14+00
 HORIZONTAL SCALE: 1" = 100'
 VERTICAL SCALE: 1" = 20'



C CROSS SECTION C AT STA 18+00
 HORIZONTAL SCALE: 1" = 100'
 VERTICAL SCALE: 1" = 20'



B CROSS SECTION B AT STA 16+00
 HORIZONTAL SCALE: 1" = 100'
 VERTICAL SCALE: 1" = 20'



| Rev # | Date | Description |
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ALAMOGORDO, NEW MEXICO
 GREENTREE REGIONAL LANDFILL CELLS NO. 1 AND 2
 OTERO COUNTY, NEW MEXICO
 WEST TO EAST ALIGNMENT
 CROSS SECTIONS A THRU C

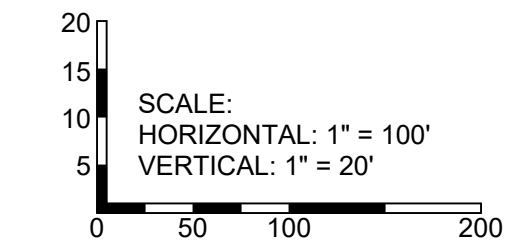
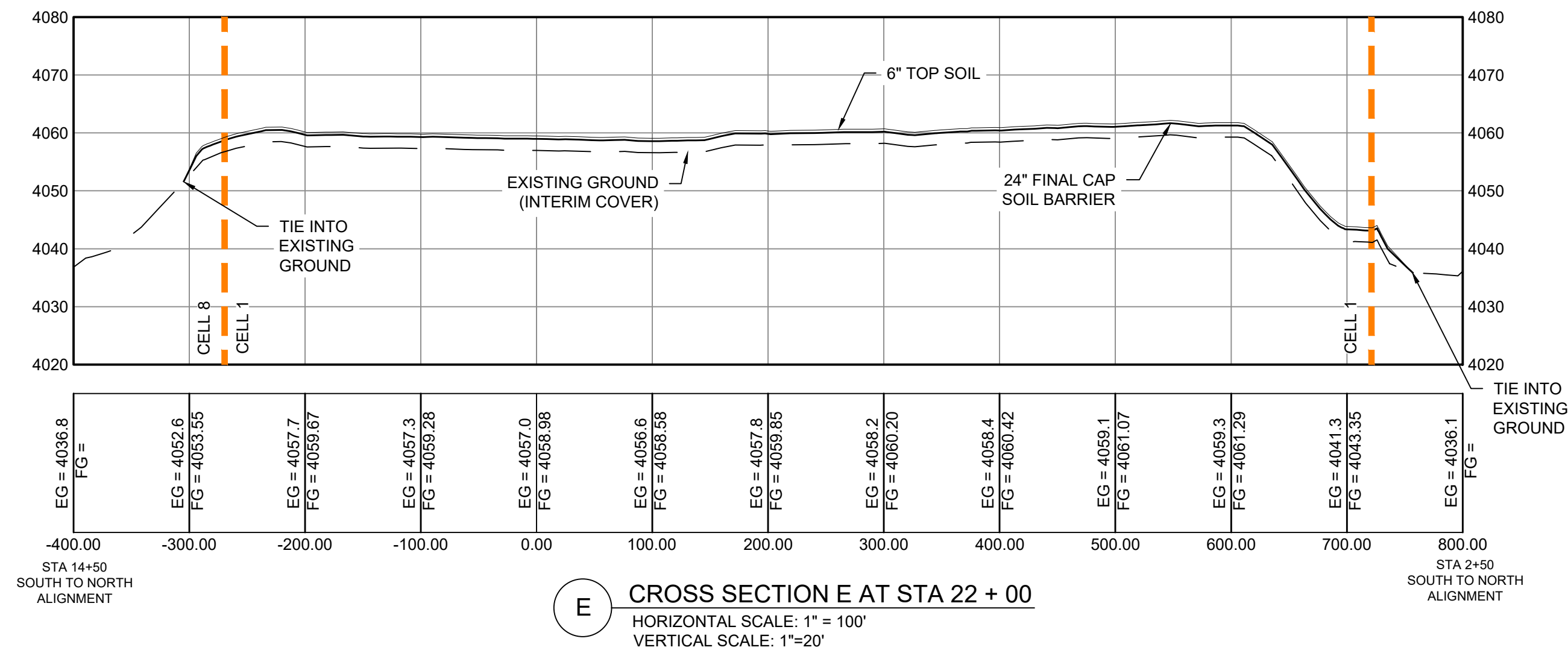
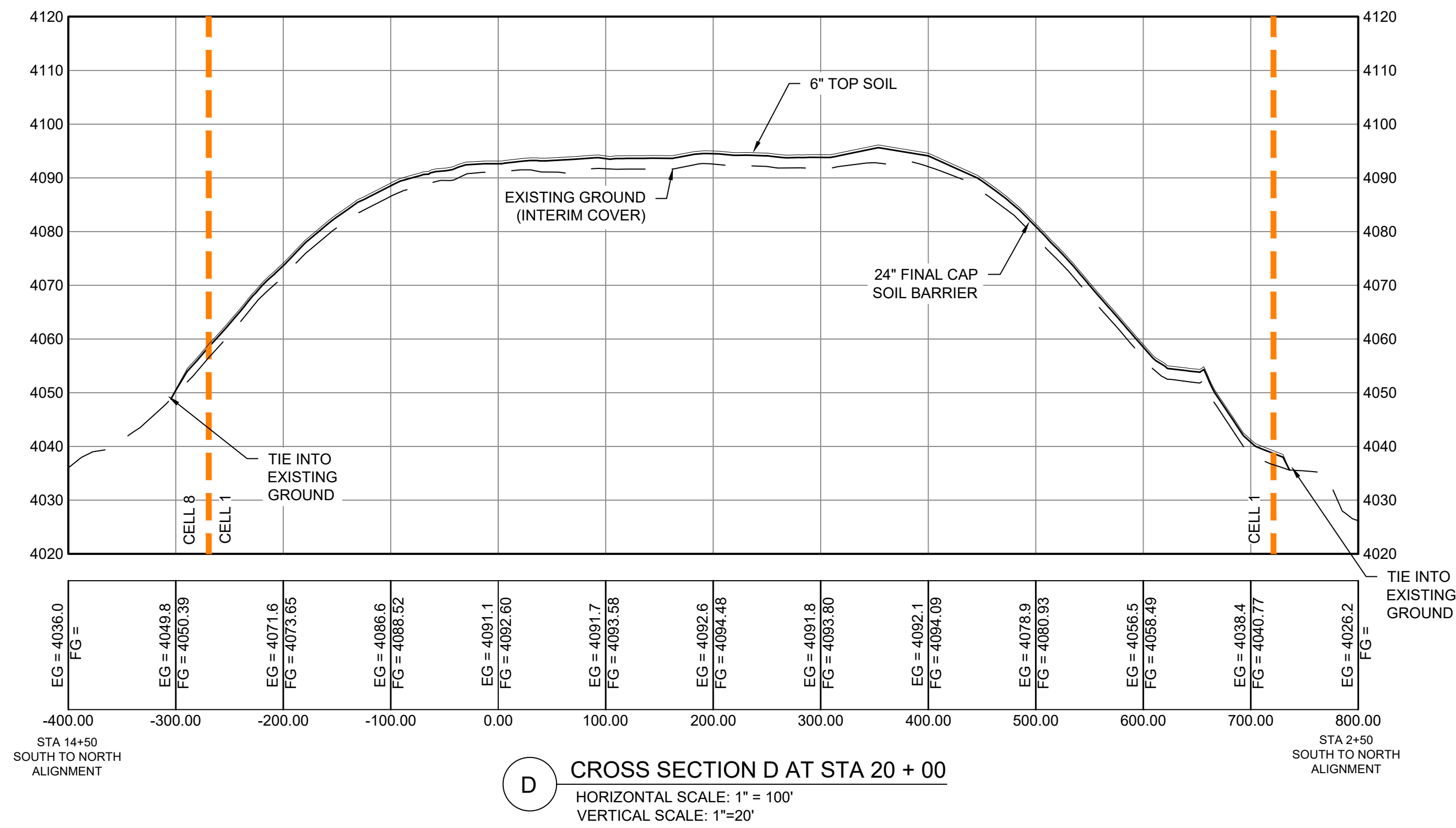
OTERO COUNTY
 SOUDER, MILLER & ASSOCIATES
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 Serving the Southwest & Rocky Mountains
 3500 Sedona Hills Pkwy.
 Las Cruces, NM 88011
 Phone: (575) 647-0799 Fax: (575) 647-0680
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| | | |
|---------------------|---|----------------|
| 02/11/2021 | THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED | |
| Designed: SVG | Drawn: DJB | Checked: PJP |
| Date: May 2021 | Scale: Horiz: 1" = 100' | Vert: 1" = 20' |
| Project No: 4328859 | Sheet: C501 | |



To Request a Line Locate Dial 811
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To Request a Line Locate Dial 811

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 OTERO COUNTY, NEW MEXICO
 WEST TO EAST ALIGNMENT
 CROSS SECTIONS D THRU E



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|-------------|------------------------------------|-------|-----|---------|-----|
| Designed | SVG | Drawn | DJB | Checked | PJP |
| Date: | May 2021 | | | | |
| Scale: | Horiz: 1" = 100' Vert: 1" = 20' | | | | |
| Project No: | 4328859 | | | | |
| Sheet: | C502 | | | | |