

LOCATION MAP

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SITE CIVIL PLANS SR MARYVILLE PV 1.25 MWac

3121 MINT ROAD
MARYVILLE, BLOUNT COUNTY
TENNESSEE, 37803
35.688236°, -84.018070°

PREPARED FOR:
SR EPC, LLC
222 SECOND AVE. S, SUITE 1900
NASHVILLE, TN 37201

PREPARED BY:



3102 West End Avenue Suite 400 Nashville, TN 37203 (860) 249-2200

CONSULTANT TEAM LIST

BL COMPANIES - CIVIL ENGINEER (ATTN: JIM JONES ~ JJONES@BLCOMPANIES.COM ~ (234) 294-6345)

BL COMPANIES - ELECTRICAL ENGINEER (ATTN: BRIAN POETL ~ BPOETL@BLCOMPANIES.COM ~ (203) 608-2487)

BL COMPANIES - STRUCTURAL ENGINEER - PILE DESIGN (ATTN: CHRIS ALBINO ~ CALBINO@BLCOMPANIES.COM ~ (203) 608-2509)

GPM - SCADA SUBCONSULTANT (ATTN: PETER KOBLISKA - (262) 844-8184)

SURVEY - PATTERSON & DEWAR (PROVIDED BY CLIENT - (770) 453-1410)

GEOTECHNICAL - S&ME, INC - (PROVIDED BY CLIENT (800) 849-2517)

ENVIR., WETLANDS - HDR (PROVIDED BY CLIENT - (629) 228-7500)

ENGINEER'S CERTIFICATION

I, TROY B. DANIEL, P.E., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TENNESSEE, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS PLAN IS ACCURATE AND CORRECT AS INDICATED.



TROY B. DANIEL





CERTIFICATE OF EQUITABLE OWNERSHIP, OFFER OF DEDICATION, AND ACKNOWLEDGEMENT OF PLAN

STATE OF TENNESSEE COUNTY OF BLOUNT

I, _______, BEING DULY SWORN ACCORDING TO LAW DEPOSE AND SAY THAT I AM THE SOLE OWNER OF THIS PROPERTY IN PEACEFUL POSSESSION OF THE SAME AND THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE THEREOF AND ALSO I HEREBY DEDICATE ALL PUBLIC IMPROVEMENTS SHOWN ON THIS PLAN FOR THE PUBLIC USE AND WE HEREBY AGREE TO EMPLOY A PROFESSIONAL LAND SURVEYOR TO PLACE ALL PROPERTY CORNERS AND MONUMENTS IN THE LOCATIONS SHOWN ON THESE PLANS IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE PROFESSIONAL LAND SURVEYORS MANUAL OF PRACTICE IN THE STATE OF TENNESSEE.

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEAL

EQUITABLE OWNER

MY COMMISSION EXPIRES ______, 20____.

CERTIFICATE OF OWNERSHIP AND ACKNOWLEDGEMENT OF PLAN

COUNTY OF BLOUNT

I, ________, BEING DULY SWORN ACCORDING TO LAW DEPOSE AND SAY THAT I AM THE SOLE OWNER OF THIS PROPERTY IN PEACEFUL POSSESSION OF THE SAME AND THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE THEREOF AND ALSO I HEREBY DEDICATE ALL PUBLIC IMPROVEMENTS SHOWN ON THIS PLAN FOR THE PUBLIC USE AND WE HEREBY AGREE TO EMPLOY A PROFESSIONAL LAND SURVEYOR TO PLACE ALL PROPERTY CORNERS AND MONUMENTS IN THE LOCATIONS SHOWN ON THESE PLANS IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE PROFESSIONAL LAND SURVEYORS MANUAL OF PRACTICE IN THE STATE OF TENNESSEE.

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEAL

OWNED

MY COMMISSION EXPIRES ______, 20____.

DATES

ISSUE DATE: MARCH 31ST, 2025 REVISIONS:

G001-TITLE SHEET

RECORDER OF DEEDS CERTIFICATE

PLAN REGISTERED IN THE OFFICE FOR THE REGISTER OF DEEDS OF BLOUNT COUNTY, TENNESSEE, AS INSTRUMENT NO.
______ ON THE ______ DAY OF _______, 20___.

REGISTER OF DEEDS

CAD FILE: G2300034-00

BL PROJECT NUMBER: 2300034

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DERIVED FROM NETWORK GPS MEASUREMENTS USING A SPECTRA PRECISION SP85 GPS THIS PROPERTY IS NOT LOCATED IN A FEMA DESIGNATED FLOOD HAZARD AREA(S) PER FEMA FLOOD INSURANCE RATE MAPS OF BLOUNT COUNTY, TENNESSEE, MAP NUMBER 47009C0250C PANEL 250 OF 475 WITH AN EFFECTIVE DATE OF SEPTEMBER 19, 2007.

FOOT, AS REFERENCED TO NAD83 (2011) HORIZONTAL AND NAVD88 COORDINATES WERE

. CORNERS NOTED HEREON AS IRON PIN SET (IPS) ARE 1/2 INCH IRON REBARS WITH A PLASTIC CAP STAMPED PATTERSON & DEWAR ENG. LAND SURVEYORS, AS LICENSED PROFESSIONALS BY THE STATE OF TENNESSEE, ARE NOT EXPERTS IN THE IDENTIFICATION OF WETLANDS, CEMETERIES OR BURIAL GROUNDS, ITEMS OF HISTORICAL OR CULTURAL SIGNIFICANCE; THEREFORE EXCEPTION IS TAKEN TO ANY SUCH MATTERS WHICH MAY EXIST ON THIS PROPERTY.

THE PROPERTY MAY BE SUBJECT TO EASEMENTS, RESERVATIONS, RIGHTS OF WAY, OR RESTRICTIONS WHICH ARE NOT RECORDED OR NOT DISCLOSED BY THE TITLE COMMITMENT OR OTHERWISE UNKNOWN TO THE SURVEYOR; THEREFORE EXCEPTION IS TAKEN TO ANY SUCH

EVIDENCE OF CULTIVATED LAND WAS OBSERVED, NO CLEAR CUTTING OF TREES WAS OBSERVED DURING THE SURVEY. THE UTILITIES SHOWN ARE FOR THE CLIENT'S CONVENIENCE ONLY - UTILITIES OBSERVED AS

SHOWN. THERE MAY BE UNDERGROUND UTILITIES NOT SHOWN HEREON. THE TRANSMISSION LINE EASEMENT, ACCESS EASEMENT, AND CONSTRUCTION EASEMENT DESCRIBED HEREON ARE THE SAME AS IDENTIFIED IN THAT CERTAIN TITLE COMMITMENT BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, FILE NO. 20211443ACTN, DATED SEPTEMBER D. NO CEMETERIES OR BURIAL GROUNDS WERE OBSERVED ON THE PROPERTY AT THE TIME OF

I. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY DESIGNATED WETLAND AREAS ON THE

P. NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WAS OBSERVED AT THE TIME OF SURVEY.

3. NO EVIDENCE OF PROPOSED CHANGES IN STREET RIGHT OF WAY LINES OR OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS WAS OBSERVED AT THE TIME OF SURVEY. 4. THE PARCELS DO NOT HAVE A LISTED STREET ADDRESS. 5. NO EVIDENCE OF THE SITE BEING USED AS A DUMPING AND OR TRASH SITE.

6. LAND SURVEYORS ARE NOT LICENSED TO PRACTICE LAW IN THE STATE OF TENNESSEE AND THUS DO NOT DETERMINE ENCROACHMENTS. AN ENCROACHMENT A LEGAL CONDITION, NOT A MATTER FOR A SURVEYOR TO DETERMINE. AT THE TIME OF THE SURVEY WE OBSERVED NO MAN MADE STRUCTURES WITH EXCEPTIONS TO FENCES MEANDERING NEAR THE PROPERTY

7. ADJOINER PROPERTY LINES SHOWN HEREON ARE FOR PICTORIAL DISPLAY ONLY, NO FIELD WORK WAS COMPLETED TO DETERMINE EXACT LOCATIONS. 18. THE CURRENT ZONING CLASSIFICATION OF THE FEE PROPERTY IS S (SUBURBANIZING)

19. NO OBSERVED EVIDENCE OF THIRD-PARTY USE OF PRIVATE ROADS WAS OBSERVED AT THE

20. THE ACCESS EASEMENT, TRANSMISSION LINE EASEMENT, AND CONSTRUCTION EASEMENT HAVE DIRECT ACCESS TO MINT RD, A PUBLIC RIGHT-OF-WAY. THE PROPERTY OWNED IN FEE BY SILICON RANCH CORPORATION WILL HAVE INDIRECT ACCESS TO MINT RD THROUGH THE PROPOSED ACCESS EASEMENT.

ALTA/NSPS CERTIFICATION

TO SILICON RANCH CORPORATION; SR MARYVILLE, LLC; SR EPC, LLC; FIDELITY NATIONAL TITLE INSURANCE COMPANY AND BRADLEY ARANT BOULT CUMMINGS.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA/NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6a, 6b, 7a, 7b(1), 7c, 8, 11a, 11b, 13, 14, 16, 17, 18, AND 19 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON 06/09/2022.

TONY G. KIRBY

SURVEYORS CERTIFICATE

I HEREBY CERTIFY THAT THIS IS A CATEGORY II SURVEY AND THE RATIO OF PRECISION OF THE UNADJUSTED SURVEY IS 1:7,500 OR GREATER AS SHOWN HEREON. THIS SURVEY WAS DONE IN COMPLIANCE WITH CURRENT TENNESSEE MINIMUM STANDARDS OF PRACTICE.

10.02.2024 TONY G. KIRBY DATE TN. REG. L.S. NO. 3385

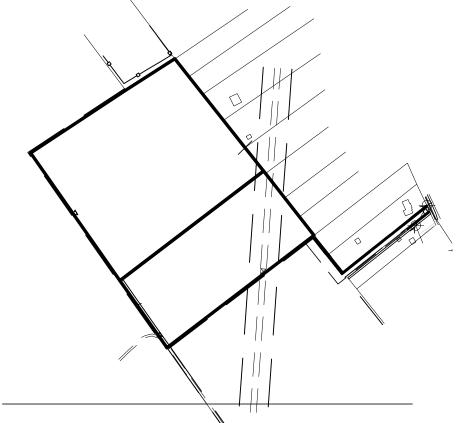
GRAPHIC SCALE (IN FEET) 1 inch = 500 ft.

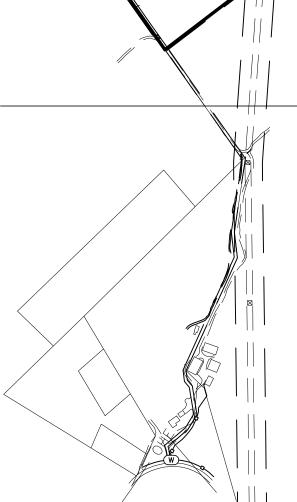
AREA STATEMENT **TABLE**

TRACT 2 16.426 ACRES 715,509 SQUARE FEET TRACT 3 9.306 ACRES 405,443 SQUARE FEET TRANSMISSION LINE 0.214 ACRES 9,329 SQUARE FEET EASEMENT

ACCESS EASEMENT 0.825 ACRES *35,652 SQUARE FEET* CONSTRUCTION

0.020 ACRES EASEMENT 886 SQUARE FEET TOTALING 26.971 ACRES OR 1,166,837 SQUARE FEET.





CALL TABLE Line # | Length | Direction L1 | 241.00 | S38° 32' 07"E L2 | 557.45 | N51° 27' 19"E L3 36.11 | S24° 18' 01"E L4 | 608.57 | S51° 27' 19"W L5 | 277.24 | N38° 32' 07"W 60.01 | N52° 38' 22"E 10.32 | S24° 18' 01"E L8 | 569.91 | S51° 27' 19"W L9 | 251.31 | N38° 32' 07"W L10 | 15.00 | N52° 38' 22"E 150.00 | S51° 33′ 02"W 5.75 N38° 32' 41"W

L13 | 151.52 | N51° 27' 19"E

6.19 | S24° 18' 01"E

RECORDED LEGAL DESCRIPTION FOR FEE TRACT OWNED BY SILICON RANCH CORPORATION

SITUATED IN DISTRICT NO. SEVEN OF BLOUNT COUNTY, TENNESSEE AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

4

BEGINNING AT AN IRON PIPE ON THE CORNER OF THE PROPERTY NOW OR FORMERLY OWNED BY KELLER, SAID POINT OF BEGINNING BEING A COMMON CORNER OF THE PROPERTY OF W.R. PATE AND BEING LOCATED NORTH 34-43-20 WEST 286.48 FEET FROM THE COMMON CORNER OF KELLER, W.R. PATE, AND MACK PATE; THENCE FROM SAID POINT OF BEGINNING ALONG THE LINE OF PATE NORTH 34-41-16 WEST 811.53 FEET TO A CORNER FENCE POST; THENCE CONTINUING PATE NORTH 56-49-24 EAST 593.24 FEET TO AN IRON ROD, CORNER OF GIFFIN ESTATES, SECTION II; THENCE WITH THE LINE OF GIFFIN ESTATES, SECTION II NORTH 57-46-36 EAST 303.96 FEET TO AN IRON ROD, CORNER OF LOT 24 OF WALNUT HILLS ESTATES; THENCE WITH LOT 24 OF WALNUT HILLS ESTATES SOUTH 37-53-46 EAST 118.47 FEET TO AN IRON ROD, CORNER OF LOT 23 WALNUT HILLS ESTATES; THENCE WITH LOT 23 OF WALNUT HILLS ESTATES SOUTH 37-57-27 EAST 116.71 FEET TO AN IRON ROD, CORNER OF REPLAT OF 22 OF WALNUT HILLS ESTATES (MAP FILE 490A); THENCE WITH REPLAT OF LOT 22 AND REPLAT OF LOT 20 OF SAID WALNUT HILLS ESTATES SOUTH 38-03-29 EAST 354.47 FEET TO A POINT ON THE EDGE OF LOT 19 WALNUT HILLS ESTATES; THENCE WITH LOT 19 OF WALNUT HILLS ESTATES SOUTH 37—58—22 EAST 155.28 FEET TO A POINT ON THE LINE OF KELLER; THENCE WITH THE LINE OF KELLER SOUTH 52—55—37 WEST 940.55 FEET TO THE POINT OF BEGINNING AND CONTAINING 16.426 ACRES, AS SHOWN BY THE SURVEY OF EDGAR HERBERT PITTS, JR., REGISTERED LAND SURVEYOR NO. 58, 510 WEST BROADWAY, P. O. BOX 4355, MARYVILLE, TENNESSEE 37802-4355, DATED MAY 14, 1996, AND BEARING JOB NO. 7066.

THERE IS CONVEYED HEREWITH AND THIS CONVEYANCE IS MADE SUBJECT TO THE RIGHTS OF OTHERS IN AND TO THE FOLLOWING DESCRIBED EASEMENT:

THERE IS ALSO CONVEYED HEREWITH A 16 FOOT NON-EXCLUSIVE PERMANENT, PRIVATE EASEMENT FOR INGRESS AND EGRESS, DRAINAGE, AND UTILITIES, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: THE EASEMENT 16 FEET IN WIDTH AND 8 FEET ON EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE: BEGINNING ON A POINT ON THE CENTERLINE OF HUFFSTETLER ROAD, SAID POINT OF BEGINNING BEING LOCATED ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 280.63 FEET, AN ARC DISTANCE OF 228.91 FEET, AND A CHORD CALL OF NORTH 64-13-19 EAST 222.61 FEET FROM THE SOUTHWESTERN MOST EDGE OF THE ABOVE DESCRIBED PROPERTY; THENCE FROM SAID POINT OF BEGINNING NORTH 08-38-44 WEST 70.50 FEET TO A POINT; THENCE NORTH 16-39-24 WEST 29.07 FEET TO A POINT; THENCE NORTH 50-02-20 EAST 139.04 FEET TO A POINT; THENCE NORTH 31-47-33 EAST 87.62 FEET TO A POINT; THENCE NORTH 09-00-18 WEST 146.23 FEET TO A POINT; THENCE NORTH 40-02-47 WEST 39.07 FEET TO A POINT; THENCE NORTH 76-57-03 EAST 10.12 FEET TO A POINT.

SAID EASEMENT CONTINUING AND BEING 16 FEET WEST OF AND ADJACENT TO THE FOLLOWING DESCRIBED LINE:

BEGINNING AT AN IRON ROD, SAID IRON ROD LOCATED AT THE TERMINUS OF THE ABOVE DESCRIBED CENTERLINE EASEMENT; THENCE FROM SAID POINT OF BEGINNING NORTH 24-44-48 EAST 645.37 FEET TO AN IRON ROD; THENCE NORTH 06-27-13 WEST 134.06 FEET TO AN ANGLE IRON POST IN CONCRETE; THENCE NORTH 08-49-39 EAST 406.50 FEET TO A POST.

THENCE 16 FEET ADJACENT TO AND TO THE NORTH AND EAST OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT A POINT LOCATED SOUTH 46-13-59 WEST 29.06 FEET FROM THE TERMINUS OF THE EASEMENT HEREINABOVE DESCRIBED; THENCE NORTH 34-50-15 WEST 696.00 FEET TO AN IRON ROD; THENCE NORTH 34-50-15 WEST 139.51 FEET TO AN IRON ROD; THENCE NORTH 34-43-20 WEST 286.48 FEET TO A POINT ON THE PROPERTY OF KELLER. THE ABOVE DESCRIBED PROPERTY IS FURTHER SUBJECT TO A TVA TRANSMISSION LINE EASEMENT AS SHOWN IN WARRANTY DEED BOOK VOL. 169, PAGE 378 AND SHOWN ON THE ABOVE MENTIONED SURVEY.

TRACT THREE:

BEGINNING AT AN IRON ROD LOCATED ON THE COMMON INTERSECTION OF THE PROPERTY HEREIN CONVEYED, THE PROPERTY OF MACK PATE (DEED BOOK 541, PAGE 563) AND W. R. PATE (DEED BOOK 108, PAGE 547); THENCE FROM SAID POINT OF BEGINNING, ALONG THE LINE OF W.R. PATE NORTH 34-43-20 WEST 286.48 FEET TO AN IRON PIPE, CORNER OF PROPERTY OF KELLER; THENCE WITH THE PROPERTY OF KELLER NORTH 52-55-37 EAST 940.55 FEET TO AN IRON ROD ON THE LINE OF LOT 19 OF WALNUT HILLS ESTATES SUBDIVISION (MAP FILE 463A); THENCE WITH LOT 19 OF SAID SUBDIVISION SOUTH 37-58-22 EAST 16.34 FEET TO AN IRON ROD, CORNER OF LOT 18 OF SAID SUBDIVISION; THENCE WITH LOT NOS. 18, 17, AND 16 AND PART OF 15 OF SAID SUBDIVISION SOUTH 37-47-53 EAST 409.66 FEET TO AN IRON ROD ON THE PROPERTY NOW OR FORMERLY OWNED BY BLAIR; THENCE WITH THE PROPERTY OF BLAIR SOUTH 52-56-46 WEST 963.18 FEET TO AN IRON ROD ON THE LINE OF MACK PATE; THENCE WITH THE LINE OF MACK PATE NORTH 34-50-15 WEST 139.51 FEET TO THE POINT OF BEGINNING AND CONTAINING 9.305 ACRES AS SHOWN BY THE SURVEY OF EDGAR HERBERT PITTS, JR., REGISTERED LAND SURVEYOR NO. 58, 510 WEST BROADWAY, P. O. BOX 4355, MARYVILLE, TENNESSEE 37802-4355, DATED MAY 14, 1996, AND BEARING JOB NO. 7066.

THERE IS ALSO CONVEYED HEREWITH AND THIS PROPERTY IS SUBJECT TO A 16 FOOT NON-EXCLUSIVE PERMANENT, PRIVATE EASEMENT FOR INGRESS AND EGRESS, DRAINAGE, AND UTILITIES, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THE EASEMENT 16 FEET IN WIDTH AND 8 FEET ON EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING ON A POINT ON THE CENTERLINE OF HUFFSTETLER ROAD, SAID POINT OF BEGINNING BEING LOCATED ALONG A CURVE TO THE RIGHT, HAVING A RADIUS OF 280.63 FEET,, AN ARC DISTANCE OF 228.91 FEET, AND A CHORD CALL OF NORTH 64-13-19 EAST 222.61 FEET FROM THE SOUTHWESTERN MOST EDGE OF THE ABOVE DESCRIBED PROPERTY; THENCE FROM SAID POINT OF BEGINNING NORTH 08-38-44 WEST 70.50 FEET TO A POINT; THENCE NORTH 16-39-24 WEST 29.07 FEET TO A POINT; THENCE NORTH 50-02-20 EAST 139.04 FEET TO A POINT; THENCE NORTH 31-47-33 EAST 87.62 FEET TO A POINT; THENCE NORTH 09-00-18 WEST 146.23 FEET TO A POINT; THENCE NORTH 40-02-47 WEST 39.07 FEET TO A POINT; THENCE NORTH 76-57-03 EAST 10.12 FEET TO A POINT.

SAID EASEMENT CONTINUING AND BEING 16 FEET WEST OF AND ADJACENT TO THE FOLLOWING DESCRIBED LINE:

BEGINNING AT AN IRON ROD, SAID IRON ROD LOCATED AT THE TERMINUS OF THE ABOVE DESCRIBED CENTERLINE EASEMENT; THENCE FROM SAID POINT OF BEGINNING NORTH 24-44-48 EAST 645.37 FEET TO AN IRON ROD; THENCE NORTH 06-27-13 WEST 134.06 FEET TO AN ANGLE IRON POST IN CONCRETE; THENCE NORTH 08-49-39 EAST 406.50 FEET TO A POST.

THENCE 16 FEET ADJACENT TO AND TO THE NORTH AND EAST OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT A POINT LOCATED SOUTH 46-13-59 WEST 29.06 FEET FROM THE TERMINUS OF THE EASEMENT HEREINABOVE DESCRIBED: THENCE NORTH 34-50-15 WEST 696.00 FEET TO AN IRON ROD: THENCE NORTH 34-50-15 WEST 139.51 FEET TO AN IRON ROD; THENCE NORTH 34-43-20 WEST 286.48 FEET TO A POINT ON THE PROPERTY OF KELLER.

THE ABOVE DESCRIBED PROPERTY IS FURTHER SUBJECT TO A TVA TRANSMISSION LINE EASEMENT AS SHOWN IN WARRANTY DEED BOOK VOL. 169, PAGE 378 AND SHOWN ON THE ABOVE MENTIONED SURVEY.

BEING A PORTION OF THE SAME PROPERTY CONVEYED TO LARRY V. JOHNSTON, TRUSTEE OF THE LARRY V. JOHNSTON PROFIT SHARING PLAN, BY WARRANTY DEED OF RECORD IN WARRANTY DEED BOOK 587, PAGE 707, REGISTER'S OFFICE FOR BLOUNT COUNTY, TENNESSEE.

SPECIAL EXCEPTIONS COMMITMENT. NO. 20211443ACTN

10. Subject to all matters shown on the Plan of record in Map File 4542A, Register's Office for Blount County, Tennessee. (AFFECTS TRACT 2, TRACT 3 AND THE FOLLOWING SRC EASEMENTS, TRANSMISSION, ACCESS, AND CONSTRUCTION.)

11. Intentionally deleted – duplicate item. (Restrictions of record in Book 38, Page 142, in the Register's Office for Blount County, Tennessee, but omitting any restriction, if any, based on race, color, religion, sex, handicap, familial status, or national origin unless and only to the extent that the restriction (a) is exempt under Title 42 of the United States Code, or (b) relates to handicap but does not discriminate against handicapped persons.) (NOT A SURVEY MATTER)

12. Application for Greenbelt Assessment of record in Book 2768, Page 2734, in the Register's Office for Blount County, Tennessee.The land has been classified as Greenbelt for assessment, levy, and collection purposes, and may be subject to substantial rollback taxes as defined in Tennessee Code Annotated, Section 67-5-1001, et seq. (NOT A SURVEY MATTER)

13. Application for Greenbelt Assessment filed of record in Miscellaneous Book 84, page 262, in the Register's Office for Blount County, Tennessee. The land has been classified as Greenbelt for assessment, levy, and collection purposes, and may be subject to substantial rollback taxes as defined in Tennessee Code Annotated, Section 67-5-1001, et seg. (NOT A SURVEY MATTER)

14. Application for Greenbelt Assessment filed of record in Record Book 2351, page 201, in the Register's Office for Blount County, Tennessee. The land has been classified as Greenbelt for assessment, levy, and collection purposes. and may be subject to substantial rollback taxes as defined in Tennessee Code Annotated, Section 67–5–1001, et seq. **(NOT A SURVEY MATTER)**

15. Access Easement Agreement of record in Book 2760, Page 391, in the Register's Office for Blount County, Tennessee. (THIS ITEM DOES NOT AFFECT TRACT TWO OR THREE, NOR DOES IT AFFECT THE FOLLOWING SRC EASEMENTS, TRANSMISSION, ACCESS, AND CONSTRUCTION.)

16. Grant of Transmission Line Easement of record in Book 169, Page 378, in the Register's Office for Blount County, Tennessee. (AFFECTS TRACT TWO AND THREE AS SHOWN. DOES NOT AFFECT THE FOLLOWING SRC EASEMENTS, TRANSMISSION, ACCESS, AND CONSTRUCTION.)

Blount County, Tennessee. (AFFECTS TRACT TWO AND THREE AS SHOWN. DOES NOT AFFECT THE FOLLOWING SRC EASEMENTS, TRANSMISSION. ACCESS. AND CONSTRUCTION.) 18. Grant of Transmission Line Easement of record in Book 169, Page 445, in the Register's Office for

17. Grant of Transmission Line Easements of record in Book 169, Page 420, in the Register's Office for

Blount County, Tennessee. (AFFECTS TRACT TWO AND THREE AS SHOWN. DOES NOT AFFECT THE FOLLOWING SRC EASEMENTS, TRANSMISSION, ACCESS, AND CONSTRUCTION.) 19. 16—foot right of way of record in Book 199, Page 481, in the Register's Office for Blount County,

Tennessee. (AFFECTS TRACT THREE AS SHOWN. DOES NOT AFFECT THE FOLLOWING SRC EASEMENTS, TRANSMISSION, ACCESS, AND

CONSTRUCTION.)

20. Terms, provisions, covenants, conditions, restrictions, easements, charges, assessments and liens provided in the Covenants, Conditions and Restrictions of record in Book 38, Page 142, in the Register's Office for Blount County, Tennessee, but omitting any covenant, condition or restriction, if any, based on race, color, religion, sex, handicap, familial status or national origin unless and only to the extent that the covenant, condition or restriction (a) is exempt under Title 42 of the United States Code, or (b) relates to handicap but does not discriminate against handicapped persons. (NOT A SURVEY MATTER)

21. Grant of Easement of record in Book 178, Page 701, in the Register's Office for Blount County, Tennessee. (THIS ITEM DOES NOT AFFECT SUBJECT PROPERTY)

22. Easement of record in Misc Book 190, Page 744, in the Register's Office for Blount County, Tennessee. (THIS ITEM DOES NOT AFFECT SUBJECT PROPERTY)

AS SURVEYED LEGAL DESCRIPTION FOR FEE TRACT OWNED BY SILICON RANCH CORPORATION

SITUATED IN DISTRICT NO. SEVEN OF BLOUNT COUNTY, TENNESSEE AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TRACT TWO:

COMMENCING AT AN IRON PIN SET THENCE, NORTH 35°09'13" WEST, 139.75 FEET TO AN IRON REBAR FOUND WITH CAP: THENCE, NORTH 35°01'30" WEST, 286.31 FEET TO AN IRON REBAR WITH CAP SET; SAID POINT ALSO KNOWN AS THE POINT OF BEGINNING:

THENCE. NORTH 35°00'11" WEST. 811.48 FEET TO AN IRON REBAR WITH CAP SET: THENCE, NORTH 56°30'39" EAST, 593.29 FEET TO AN IRON REBAR WITH CAP SET; THENCE, NORTH 57°29'04" EAST, 303.98 FEET TO A 5/8" REBAR FOUND; THENCE, SOUTH 38°12'00" EAST, 118.41 FEET TO A POINT; THENCE, SOUTH 38°15'34" EAST, 116.71 FEET TO AN IRON PIN FOUND; THENCE, SOUTH 38°21'13" EAST, 354.48 FEET TO AN IRON PIN FOUND; THENCE, SOUTH 38°19'16" EAST, 155.27 FEET TO AN IRON REBAR FOUND WITH

THENCE, SOUTH 52°37'18" WEST, 940.52 FEET TO AN IRON REBAR WITH CAP SET ALSO KNOWN AS THE POINT OF BEGINNING.

CONTAINING 16.426 ACRES OR 715,509 SQUARE FEET, MORE OR LESS.

TRACT THREE:

COMMENCING AT AN IRON PIN SET, SAID POINT ALSO KNOWN AS THE POINT OF BEGINNING;

THENCE, NORTH 35°09'13" WEST, 139.75 FEET TO AN IRON REBEAR FOUND WITH THENCE, NORTH 35°01'30" WEST, 286.31 FEET TO AN IRON REBAR WITH CAP SET; THENCE, NORTH 52°37'18" EAST, 940.52 FEET TO AN IRON REBEAR FOUND WITH

THENCE, SOUTH 39°08'20" EAST, 15.63 FEET TO A 5/8" REBAR FOUND; THENCE, SOUTH 38°03'59" EAST, 410.42 FEET TO AN IRON PIN FOUND; THENCE, SOUTH 52°38'22" WEST, 963.11 FEET TO IRON REBAR WITH CAP SET ALSO KNOWN AS THE POINT OF BEGINNING.

CONTAINING 9.306 ACRES OR 405,443 SQUARE FEET, MORE OR LESS. TOTALING 25.732 ACRES OR 1,120,952 SQUARE FEET, MORE OR LESS.

EASEMENT **LEGAL DESCRIPTIONS**

SITUATED IN DISTRICT NO. SEVEN OF BLOUNT COUNTY, TENNESSEE AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TRANSMISSION LINE EASEMENT:

COMMENCING AT AN IRON PIN SET AT COORDINATES N: 498998.59, E: 2556403.37, SAID POINT ALSO KNOWN AS THE POINT OF BEGINNING;

THENCE, SOUTH 38°32'07" EAST, 241.00 FEET TO A POINT; THENCE, NORTH 51°27'19" EAST, 557.45 FEET TO AN IRON PIN FOUND:

THENCE, SOUTH 24°18'01" EAST, 10.32 FEET TO A POINT; THENCE. SOUTH 51°27'19" WEST. 569.91 FEET TO A POINT THENCE, NORTH 38°32'07" WEST, 251.31 FEET TO A POINT;

THENCE, NORTH 52°38'22" EAST, 15.00 FEET TO AN IRON PIN FOUND, ALSO KNOWN AS THE POINT OF BEGINNING.

CONTAINING 0.214 ACRES OR 9,329 SQUARE FEET, MORE OR LESS.

ACCESS EASEMENT:

COMMENCING AT AN IRON PIN SET AT COORDINATES N: 498998.59, E: 2556403.37, SAID POINT ALSO KNOWN AS THE POINT OF BEGINNING;

THENCE, SOUTH 38°32'07" EAST, 241.00 FEET TO A POINT; THENCE, NORTH 51°27'19" EAST, 557.45 FEET TO AN IRON PIN FOUND;

THENCE, SOUTH 24°18'01" EAST, 36.11 FEET TO A POINT; THENCE, SOUTH 51°27'19" WEST, 608.57 FEET TO A POINT; THENCE, NORTH 38°32'07" WEST, 277.24 TO A POINT;

THENCE, NORTH 52°38'22" EAST, 60.01 FEET TO AN IRON PIN FOUND, ALSO KNOWN AS THE POINT OF BEGINNING.

CONTAINING 0.825 ACRES OR 35,652 SQUARE FEET, MORE OR LESS.

CONSTRUCTION EASEMENT:

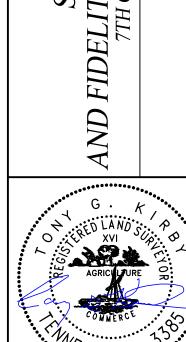
COMMENCING AT AN IRON PIN SET AT COORDINATES N: 498998.59, E: 2556403.37, THENCE, SOUTH 38°32'07" EAST, 241.00 FEET TO A POINT; THENCE, NORTH 51°27'19" EAST, 557.45 FEET TO AN IRON PIN FOUND;

THENCE, SOUTH 24°18'01" EAST, 36.11 FEET TO A POINT; THENCE SOUTH 24°18'01" EAST, 6.19 FEET TO AN IRON PIN FOUND, SAID PIN ALSO KNOWN AS THE POINT OF BEGINNING;

THENCE, SOUTH 51°33'02" WEST, 150.00 FEET TO A POINT; THENCE, NORTH 38°32'41" WEST, 5.75 FEET TO A POINT;

THENCE. NORTH 51°27'19" EAST. 151.52 FEET TO A POINT: THENCE, SOUTH 24°18'01" EAST, 6.19 FEET TO A POINT, ALSO KNOWN AS THE POINT OF BEGINNING.

CONTAINING 0.020 ACRES OR 886 SQUARE FEET, MORE OR LESS.



OMP

H CORPORATION
TITLE INSURANCE
LOUNT COUNTY, TENNESS

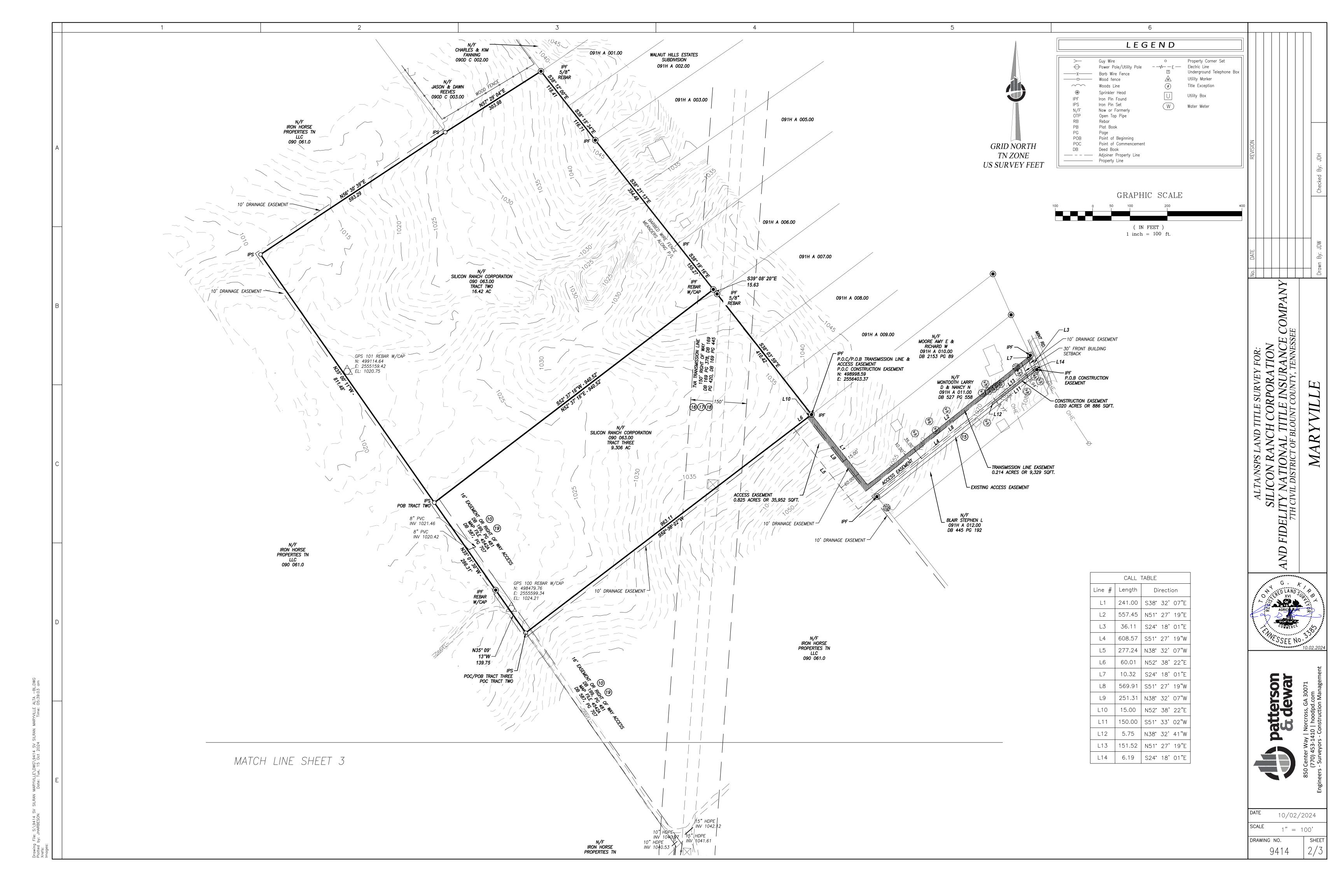
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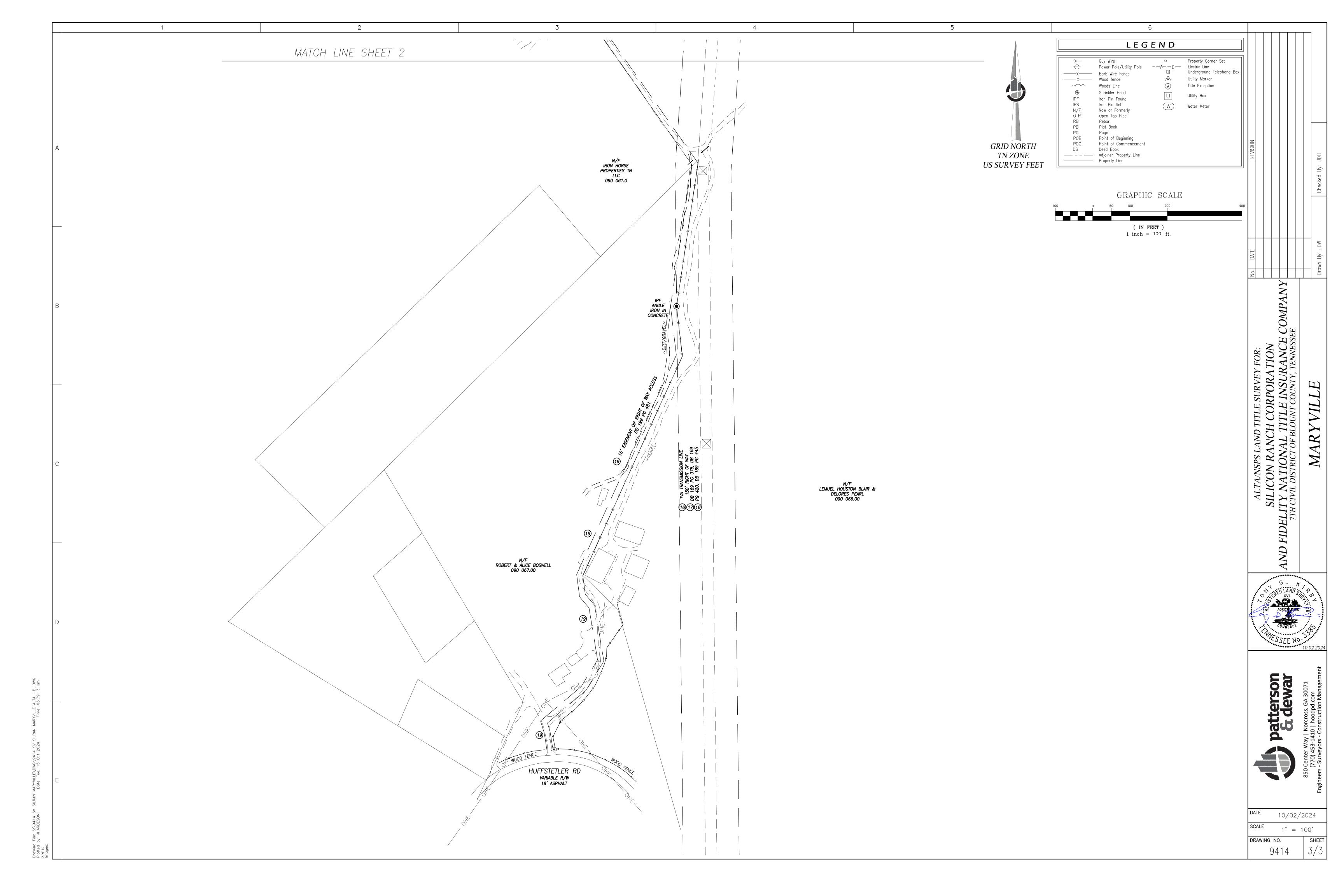
terson dewar

10/02/2024 1" = 500'

DRAWING NO.

SHEET





3. REFER TO OTHER PLANS BY OTHER DISCIPLINES, DETAILS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE AND BUILDING CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER AND ARCHITECT IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS, SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE

4. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.

5. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE

ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL PROVIDE AS—BUILT RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND STORMWATER SYSTEM) TO

THE OWNER AT THE END OF CONSTRUCTION.

7. THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE

8. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.

DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.

9. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL OR COUNTY OR STATE RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT TENNESSEE811 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 351–1111 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.

10. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.

SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY

11. SHOULD CONFLICTING INFORMATION BE FOUND WITHIN THE CONTRACT DOCUMENTS, IT IS INCUMBENT UPON THE CONTRACTOR TO REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. FOR BUDGETING PURPOSES, THE CONTRACTOR SHALL CARRY THE COST OF THE HIGHER QUALITY/QUANTITY OF WORK UNTIL SUCH TIME THAT A CLARIFICATION IS RENDERED.

12. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION. PLAN SETS OR PLAN SET ELECTRONIC POSTINGS SHALL NOT BE DISASSEMBLED INTO PARTIAL PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES. IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS OR COMPLETE PLAN SET ELECTRONIC POSTINGS FOR USE IN BIDDING AND CONSTRUCTION.

13. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.

14. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.

15. BL COMPANIES WILL PREPARE FINAL CONSTRUCTION DOCUMENTS SUITABLE FOR BIDDING AND CONSTRUCTION. PROGRESS SETS OF THESE DOCUMENTS ARE NOT SUITABLE FOR THOSE PURPOSES. IF CLIENT ELECTS TO SOLICIT BIDS OR ENTER INTO CONSTRUCTION CONTRACTS UTILIZING CONSTRUCTION DOCUMENTS THAT ARE NOT YET FINAL. CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY COSTS OR DELAY ARISING AS A RESULT.

16. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.

17. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM COUNTY SOURCES ALL CONSTRUCTION PERMITS, INCLUDING ANY STATE DOT PERMITS, SEWER AND WATER CONNECTION PERMITS, AND ROADWAY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.

18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW 3 WORKING DAYS FOR REVIEW OF RFIs AND SUBMITTALS AND 5 WORKING DAYS FOR REVIEW OF MORE DETAILED SHOP DRAWINGS.

19. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE SWPPP PLAN.

20. OWNER SHOULD BE REFERENCE FOR APPROVAL OF ANY SIGNIFICANT CHANGES IN PRODUCT/MATERIAL SELECTION, DESIGN, OR DISCREPANCIES BETWEEN PLAN AND FIELD, IN ADDITION TO EOR (ENGINEER OF RECORD) WITH CONTRACTORS'S RESPONSIBILITY TO COORDINATE IN A TIMELY MANNER AS TO NOT IMPACT SCHEDULE. TOPSOIL TO BE STOCKPILED AND RE—SPREAD ON SITE. CONTRACTOR TO NOTIFY AND COORDINATE ANY POTENTIAL UTILITY IMPACTS PRIOR TO BEGINNING WORK. BMPS TO BE INSPECTED FOLLOWING SIGNIFICANT RAIN EVENTS AND REPAIRED RIGHT AWAY, REPEATED BMP FAILURES TO BE REVIEWED BY EOR TO DETERMINE IF DESIGN CHANGES OR INSTALLATION IMPROVEMENTS ARE NECESSARY TO AVOID SEDIMENT RELEASES.

21. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER AND NOTIFY THE OWNER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.

22. ALL SITE DIMENSIONS ARE REFERENCED TO THE EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED.

23. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, TEMPORARY WALKWAYS, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT STIPULATIONS OR AS REQUIRED BY THE OWNER. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS FOR USE AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY IS

24. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.

25. THE CONTRACT LIMIT IS THE PROPERTY LINE OR LIMIT OF DISTURBANCE, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.

26. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, SWALE, PAVEMENT MARKINGS, OR SIGNAGE DISTURBED DURING DEMOLITION AND/OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER, AND TO THE SATISFACTION OF THE OWNER AND COUNTY.

27. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "ALTA/NSPS LAND TITLE SURVEY FOR: SILICON RANCH CORPORATION AND FIDELITY NATIONAL TITLE INSURANCE COMPANY" SCALE 1"=100', DATED 10/02/2024, BY PATTERSON & DEWAR.

28. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.

29. NO PORTION OF THE PROJECT PARCEL IS LOCATED WITHIN A FEMA ZONE X AREA OF MINIMAL FLOOD HAZARD.

30. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL.

DOT AS APPLICABLE FOR THE LOCATION OF THE WORK.

32. CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NEPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION. ALTERATION AND DEMOLITION

32. CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1 UNIFORM FIRE CODE.

31. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN THE ROADWAY BY METHOD APPROVED BY THE AUTHORITY HAVING JURISDICTION OR

33. SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND/OR DEMOLITION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION AND CLEARING AND GRUBBING OPERATIONS.

34. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES AS REQUIRED. BUILDING DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND DISPOSAL OF ALL BUILDING DEMOLITION DEBRIS IN AN APPROVED OFF-SITE LANDFILL.

35. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL ABATEMENT CONTRACTOR.

36. THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.

37. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE

38. THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEEMED NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENTATION CONTROLS AND FOR INSTALLATION OF ANY NEW SEDIMENT AND EROSION CONTROLS AS PER THE SEDIMENT AND EROSION CONTROL PLAN, AT THAT TIME.

39. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.

40. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A DEMOLITION PERMIT FROM BLOUNT COUNTY AND MUST FURNISH THE REQUIRED APPLICATION MATERIAL AND PAY ALL FEES.

41. BACK FILL DEPRESSIONS, FOUNDATION HOLES AND REMOVED DRIVEWAY AREAS IN LOCATIONS NOT SUBJECT TO FURTHER EXCAVATION WITH SOIL MATERIAL APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER AND COMPACT, FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION. DEMOLISHED BUILDING FOUNDATION AREA AND BASEMENT IF PRESENT TO BE BACKFILLED WITH GRAVEL FILL OR MATERIAL SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT IN LIFT THICKNESS SPECIFIED IN THE GEOTECHNICAL REPORT. COMPACT TO 95% MAX. DRY DENSITY PER ASTM D1557 AT MOISTURE CONTENT SPECIFIED IN GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION. EMPLOY WATERING EQUIPMENT FOR DUST CONTROL.

42. THE CONTRACTOR SHALL REPAIR PAVEMENTS BY INSTALLING TEMPORARY AND PERMANENT PAVEMENTS IN PUBLIC RIGHTS OF WAYS AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND THE STATE AND PER PERMIT REQUIREMENTS DUE TO DEMOLITION AND PIPE REMOVAL ACTIVITIES.

43. NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE CIVIL ENGINEER IS PERFORMED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS. THE CONTRACTOR SHALL HAVE TENNESSEE811 MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.

44. THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION UNTIL AUTHORIZED TO DO SO BY THE OWNER.

45. NO SALVAGE SHALL BE PERMITTED UNLESS PAID TO THE OWNER AS A CREDIT.

46. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO SEDIMENT AND EROSION CONTROL

PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.

47. ANY DISTURBED TOPSOIL WITHIN THE LIMITS OF DISTURBANCE SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.

48. THE CONTRACTOR SHALL COMPACT FILL IN LIFT THICKNESS PER THE GEOTECHNICAL REPORT UNDER ALL DRIVE AND STRUCTURE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER.

49. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.
50. HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAVD88.

51. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE OWNER PRIOR TO THE START OF WORK ON THE SITE.

52. PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE REGULATIONS OF THE STATE EROSION & SEDIMENT CONTROL HANDBOOK, LATEST EDITION. IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE SEDIMENT AND EROSION CONTROL PLAN CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE COUNTY WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.

53. ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN LIFT THICKNESSES PER THE PROJECT GEOTECHNICAL REPORT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT MOISTURE CONTENT INDICATED IN PROJECT GEOTECHNICAL REPORT.

54. ALL DISTURBANCE INCURRED TO MUNICIPAL, COUNTY, AND STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE MUNICIPALITY, COUNTY AND STATE AS APPLICABLE FOR THE LOCATION OF THE WORK.

55. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL TN DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

56. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED SANITARY SEWERS AND WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.

57. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.

58. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE

MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.

59. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE

CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.

60. ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE OWNER HAVING JURISDICTION.

61. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.

62. RELOCATION OF UTILITY PROVIDER FACILITIES SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.

63. THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 8" LOOSE LIFTS OR ACCORDING TO THE GEOTECHNICAL REPORT. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.

64. CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.65. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER

65. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVID REQUIREMENTS.

66. A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN ELECTRICAL LINES AND STORM PIPING SHALL BE PROVIDED.

67. MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS AND VALVE COVERS TO BE RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.

68. THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND REPAIR PAVEMENTS AS NECESSARY.

69. POINT OF CHANGE OF OWNERSHIP SHALL BE A UTILITY-INSTALLED RISER/GOAB POLE AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL PROVIDE AND INSTALL AND BACKFILL PVC CONDUITS FOR TELECOMMUNICATIONS SERVICE FROM THE SAME POLE. SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS, AND 24" ON TELECOMMUNICATIONS CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BEDDED, INSTALLED, AND BACKFILLED IN ACCORDANCE WITH ELECTRIC UTILITY PROVIDER, AND TELECOMMUNICATIONS COMPANY STANDARDS. SCHEDULE 80 PVC ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HANDHOLES AS REQUIRED TO FACILITATE INSTALLATION AND AS REQUIRED BY UTILITY PROVIDER. INSTALL TRAFFIC LOAD QUALIFIED HANDHOLES IN VEHICULAR AREAS. INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRIC CONDUITS IF REQUIRED BY ELECTRIC UTILITY PROVIDER.

70. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE CIVIL ENGINEER AND ALLOWED BY THE GOVERNING AUTHORITY ENGINEER OR OTHER GOVERNING AUTHORITY.

71. PIPING SHALL BE LAID FROM DOWNGRADIENT END OF PIPE RUN IN AN UPGRADIENT DIRECTION WITH BELL END FACING UPGRADE IN THE DIRECTION OF PIPE I AYING.

72. MANHOLE SECTIONS AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.

73. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER 12" OR GREATER IN DIAMETER SHALL BE HI—Q SURE—LOK 10.8 PIPE AS MANUFACTURED BY HANCOR INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH BELL—AND—SPIGOT JOINT MEETING THE REQUIREMENTS OF AASHTO M294. THE BELL SHALL BE AN INTEGRAL PART OF THE PIPE AND PROVIDE A MINIMUM PULL—APART STRENGTH OF 400 POUNDS. THE JOINT SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND OWNER'S CONSTRUCTION MANAGER PRIOR TO ORDERING.

74. HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE HI-Q PIPE AS MANUFACTURED BY HANCOR INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO 252, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH COUPLING BANDS OR EXTERNAL SNAP COUPLERS COVERING AT LEAST 2 FULL CORRUGATIONS ON EACH END OF THE PIPE. SILT—TIGHT (GASKET) CONNECTIONS SHALL INCORPORATE A CLOSED SYNTHETIC EXPANDED RUBBER GASKET. MEETING THE REQUIREMENTS OF AASHTO D1056 GRADE 2A2. GASKETS SHALL BE INSTALLED ON THE CONNECTION BY THE PIPE MANUFACTURER. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND OWNER'S CONSTRUCTION MANAGER PRIOR TO ORDERING.

<u>DEFINITIONS</u>

COUNTY SHALL MEAN BLOUNT COUNTY

STATE SHALL MEAN TENNESSEE

ELECTRIC UTILITY PROVIDER SHALL MEAN CITY OF MARYVILLE ELECTRIC

OPERATION REQUIREMENTS

CLEARING AND GRUBBING OPERATIONS

1. ALL SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENTATION BASINS AND STONE CONSTRUCTION EXIT ANTI-TRACKING PADS, WILL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.

2. FOLLOWING INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL NOT PROCEED WITH GRADING, FILLING OR OTHER CONSTRUCTION OPERATIONS UNTIL THE OWNER/REPRESENTATIVE HAS INSPECTED AND APPROVED ALL INSTALLATIONS.

3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CLEARING AND GRUBBING OPERATIONS SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR

SEDIMENT AND EROSION CONTROL DEVICES.

4. FOLLOWING THE COMPLETION OF CLEARING AND GRUBBING OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING (FOR PANEL ARRAY AREA) OR CRUSHED STONE (FOR ROADS AND PADS ONLY) AS SOON AS PRACTICAL.

ROUGH GRADING OPERATIONS

1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.

2. ALL STOCKPILED TOPSOIL SHALL BE SEEDED, MULCHED WITH HAY, AND ENCLOSED BY A SILTATION FENCE.

LING OPERATIONS

1. PRIOR TO FILLING, ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THIS PLAN.

2. ALL FILL MATERIAL (NATIVE OR IMPORTED) SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE, SHALL BE PLACED IN LIFT THICKNESSES NOT GREATER THAN 8" PER THE GEOTECHNICAL REPORT. FILL MATERIAL WITH MORE THAN 5% FINES THAT DOES NOT PASS THROUGH A #200 SEIVE MAY NOT BE UTILIZED AS FILL. LIFTS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT. FOR GRADING WITHIN THE ARRAY AREAS, OPEN SPACES, AND BASINS, 90% COMPACTION (PER ASTM D698) SHALL APPLY

 AS GENERAL GRADING OPERATIONS PROGRESS, ANY TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED, AS NECESSARY, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT BASINS OR SEDIMENT TRAPS.

PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND BUILDING CONSTRUCTION OPERATIONS.

1. SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES. HAY BALES/STRAW BALES MAY BE USED IF SHOWN ON THE SEDIMENT AND EROSION CONTROL PLANS OR IF DIRECTED BY THE CIVIL ENGINEER.

FINAL GRADING AND PAVING OPERATIONS

1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLANS AND DETAILS, AND AS

DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.

2. NO CUT OR FILL SLOPES SHALL EXCEED 4:1 UNLESS SPECIFICALLY NOTED ON PLANS, EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, OR JUTE MESH AND VEGETATION. SLOPES STEEPER THAN 4:1 TO REQUIRE STABILIZATION (MATTING OR OTHER). ALL SLOPES SHALL BE SEEDED, AND ANY ROAD OR DRIVEWAY SHOULDER AND BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS

3. PAVEMENT SUB-BASE AND BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.

4. AFTER CONSTRUCTION OF PAVEMENT, TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE IS STABLE AND HAS BEEN INSPECTED AND APPROVED BY THE COUNTY SOILS CONSERVATION DISTRICT.

MAINTENANCE OPERATIONS

ESTABLISHED.

1. PERMANENT ACCESS ROADS SHALL BE MAINTAINED DURING CONSTRUCTION AND THROUGHOUT THE LIFE OF THE FACILITY.

2. THE ACCESS ROADS HAVE BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATION CONDITIONS. THE ROAD IS NOT INTENDED FOR ALL WEATHER USE OR HIGH VOLUME HEAVY DUTY CONSTRUCTION LOADS. ANY DAMAGE TO ACCESS ROADS OCCURRING AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

GEOTECHNICAL NOTES

1. "GEOTECHNICAL REPORT" REFERS TO REPORT OF GEOTECHNICAL EXPLORATION AND PILE LOAD TESTING BY S&ME, DATED MAY 11TH, 2023.

2. "KARST REPORT" REFERS TO SR MARVYILE II KARST STUDY BY TERRACON, DATED JUNE 21, 2023.

3. FILL PLACEMENT AND COMPACTION REQUIREMENTS

A. THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN MAXIMUM 4"-8" LAYERS PER TO THE GEOTECHNICAL REPORT. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.

B. MINIMUM COMPACTION REQUIREMENTS

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a. ≥ 95% OF MAXIMUM DENSITY IN THE SUBSTATION AND BELOW EQUIPMENT SLABS. b. ≥ 90% OF MAXIMUM DRY DENSITY IN THE ARRAY WHEN FILL IS ADDED.

b. ≥ 90% OF MAXIMUM DRY DENSITY IN THE ARRAY WHEN FILL IS ADDED.
c. ≥ 95% OF MAXIMUM DRY DENSITY FOR ACCESS ROAD SUBGRADES (INCLUDING UTILITY TRENCH CROSSINGS).

d. ≥ 95% OF MAXIMUM DRY DENSITY FOR THE ACCESS ROAD AGGREGATE BASE LAYER. e. ≥ 85% OF THE MAXIMUM DRY DENSITY OR AS REQUIRED BY THE ELECTRICAL ENGINEER FOR UTILITY TRENCHES IN NON-STRUCTURAL AREAS.

4. ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS, IF APPLICABLE TO THIS PROJECT, SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE, SHALL BE PLACED IN LIFTS OF 4"- 8" PER THE GEOTECHNICAL REPORT. FILL MATERIAL WITH MORE THAN 5% FINES THAT DOES NOT PASS THROUGH A #200 SEIVE MAY NOT BE UTILIZED AS FILL. LIFTS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT. FOR GRADING WITHIN THE ARRAY AREAS, OPEN SPACES, AND BASINS, 90% COMPACTION (PER ASTM D698) SHALL APPLY.

5. CONSTRUCTION OBSERVATION AND TESTING FREQUENCIES PER THE GEOTECHNICAL REPORT (ASTM D6938):

A. EQUIPMENT SLABS

a. A MINIMUM OF 1 TEST PER FOUNDATION PER VERTICAL FOOT OF FILL PLACED.

B. SOLAR ARRAYS

a. EACH VERTICAL FOOT OF FILL PLACED SHOULD BE TESTED AT A FREQUENCY OF 1 TEST PER EVERY 20,000 SF OF FILL PLACED, OR A MINIMUM

OF 1 TEST PER SOLAR ARRAY BLOCK QUADRANT PER VERTICAL FOOT OF FILL PLACED.

C. ACCESS DRIVE BASE AND SUBGRADE

a. A MINIMUM OF 1 TEST PER 500 LINEAR FEET FOR EACH VERTICAL LIFT OF BASE, SUBGRADE, OR STRUCTURAL FILL.

D. UTILITY TRENCH BACKFILL

a. EACH VERTICAL FOOT OF FILL PLACED SHOULD BE TESTED AT AN INTERVAL OF EVERY 1,000 LINEAR FEET OF FILL PLACED FOR LOAD BEARING

AREAS, AND EVERY 5,000 LINEAR FEET FOR NON-LOAD BEARING AREAS.

6. ACCESS ROAD SECTIONS

A. BASED ON SM&E'S REPORT. THE STABILITY OF THE SUBGRADE SOILS IN THE AREA OF THE EQUIPMENT PADS AND ACCESS ROADS SHOULD BE EVALUATED.

BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE. THIS SHOULD INCLUDE OBSERVING PROOFROLLING OF THE SUBGRADE WITH A LOADED TANDEM-AXLE DUMP TRUCK.

B. TYPICAL UNPAVED SECTION — POST CONSTRUCTION TRAFFIC

a. COMPACTED SUBGRADE (IN) = 12 b. BASE COURSE THICKNESS (IN) = 6

b. Base course thickness (in) = 6
c. geogrid stabilization — NX750 FG (if NEEDED)

CAN ALSO SIGNIFICANTLY REDUCE SUBGRADE STRENGTH UNDER REPEATED LOADING.

i. Subgrade compacted to 98% of Standard Proctor, +2% to -3% of Optimum Moisture Content.

ii. Base materials should meet toot standards or other alternate gradation as approved by the geotechnical engineer.

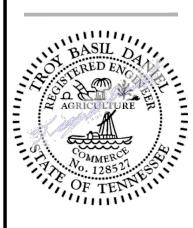
iii. Thickness design is based on the assumption that the subgrade has been prepared to a CBR of at least 3. Poor drainage

iv. TENSAR NX 750 FG GRID OR COMPARABLE. GRID SHOULD BE PLACED PER THE MANUFACTURER'S RECOMMENDATIONS.
 C. THERE WILL BE A NEED FOR AN ONGOING MAINTENANCE PROGRAM. RUTS OR POTHOLES THAT DEVELOP SHOULD BE FILLED WITH ADDITIONAL AGGREGATE BASE RATHER THAN BY RE-GRADING. ALL MAINTENANCE WORK IS TO BE COMPLETED BY THE CONTRACTOR PRIOR TO SITE TURN OVER TO SILICON

rchitecture ngineering nvironmental



3200 West End Avenue Suite 500 Nashville, TN 37203 (615) 703-2637



SR MARYVILLE PV
3121 MINT ROAD, BLOUNT COUNT

Desc. 30% SUBMISSION 60% SUBMISSION SITE PLAN SUBMISSION 90% SUBMISSION

REVISIONS

No. Date

0 01/09/20

1 02/06/20

2 02/27/20

3 03/06/20

4 03/31/20

Drawn
Reviewed
Scale
Project No.
Date
CAD File:

2300034 2/6/2025

Title CIVIL NOTES AND

Shoot No.

C001

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTIO

12. FROST PROTECTION: a. DO NOT PLACE FOUNDATIONS, SLABS-ON-GRADE, EQUIPMENT SUPPORT PADS, OR FILL MATERIAL ON FROZEN GROUND. b. WHEN FREEZING TEMPERATURES MAY BE EXPECTED, DO NOT EXCAVATE TO FULL DEPTH INDICATED, UNLESS FOUNDATIONS, FLOOR SLABS, EQUIPMENT SUPPORT PADS, OR FILL MATERIAL CAN BE PLACED IMMEDIATELY AFTER EXCAVATION HAS BEEN COMPLETED AND APPROVED. c. PROTECT EXCAVATION FROM FROST IF PLACING OF CONCRETE OR FILL IS DELAYED. d. Where a concrete slab is a base slab-on-grade located under and within a structure that will not be heated, protect subgrade UNDER THE SLAB FROM BECOMING FROZEN UNTIL FINAL ACCEPTANCE OF THE PROJECT BY SR EPC. e. PROTECT SUBGRADE UNDER FOUNDATIONS OF A STRUCTURE FROM BECOMING FROZEN UNTIL STRUCTURE IS COMPLETED AND HEATED TO A TEMPERATURE OF AT LEAST 50 DEG F. C. FILLING AND BACKFILLING OUTSIDE OF STRUCTURES. 1. THIS PARAGRAPH OF THIS SPECIFICATION APPLIES TO FILL AND BACKFILL PLACED OUTSIDE OF STRUCTURES ABOVE BOTTOM LEVEL OF FOUNDATIONS. 2. PROVIDE MATERIAL AS APPROVED BY ENGINEER FOR FILLING AND BACKFILLING OUTSIDE OF STRUCTURES. 3. FILL AND BACKFILL PLACEMENT: a. PLACE FILL AND BACKFILL MATERIAL IN THIN LIFTS AS NECESSARY TO OBTAIN REQUIRED COMPACTION DENSITY b. COMPACT MATERIAL WITH EQUIPMENT OF PROPER TYPE AND SIZE TO OBTAIN DENSITY SPECIFIED. c. Backfill material must be sifted such that no particles larger than 3/8" in radius are allowed within the trench. d. USE ONLY HAND OPERATED EQUIPMENT FOR FILLING AND BACKFILLING WITHIN A 1 FT RADIUS OF CABLE ENTRIES TO CONDUITS. e. DO NOT PLACE FILL OR BACKFILL MATERIAL WHEN TEMPERATURE IS LESS THAN 40 DEG F AND WHEN SUBGRADE TO RECEIVE MATERIAL IS FROZEN, WET, LOOSE, OR SOFT. f. USE VIBRATORY EQUIPMENT FOR COMPACTING GRANULAR MATERIAL; DO NOT USE WATER D. FLOWABLE FILL: 1. FLOWABLE FILL SHALL BE a. DISCHARGED FROM A MIXER BY ANY MEANS ACCEPTABLE TO THE ENGINEER INTO THE AREA TO BE FILLED. b. PLACED IN 4 FT MAXIMUM LIFTS TO THE ELEVATIONS INDICATED. 1) ALLOW 12 HR SET-UP TIME BEFORE PLACING NEXT LIFT OR AS APPROVED BY THE ENGINEER. 2) CONTRACTOR SHALL PLACE FLOWABLE FILL LIFTS IN SUCH A MANNER AS TO PREVENT FLOTATION OF THE PIPE. 2. FLOWABLE FILL SHALL NOT BE PLACED ON FROZEN GROUND. 3. SUBGRADE ON WHICH FLOWABLE FILL IS PLACED SHALL BE FREE OF DISTURBED OR SOFTENED MATERIAL AND WATER. 4. CONFORM TO APPROPRIATE REQUIREMENTS OF SPECIFICATION SECTION 31 23 00. 5. FLOWABLE FILL BATCHING, MIXING, AND PLACING MAY BE STARTED IF WEATHER CONDITIONS ARE FAVORABLE, AND THE AIR TEMPERATURE IS 34 6. AT THE TIME OF PLACEMENT, FLOWABLE FILL MUST HAVE A TEMPERATURE OF AT LEAST 40 DEGF. 7. MIXING AND PLACING SHALL STOP WHEN THE AIR TEMPERATURE IS 38 DEGF OR LESS AND FALLING. 8. EACH FILLING STAGE SHALL BE AS CONTINUOUS AN OPERATION AS IS PRACTICABLE. 9. CONTRACTOR SHALL PREVENT TRAFFIC CONTACT WITH FLOWABLE FILL FOR AT LEAST 24 HRS AFTER PLACEMENT OR UNTIL FLOWABLE FILL IS HARD ENOUGH TO PREVENT RUTTING BY CONSTRUCTION EQUIPMENT. 10. FLOWABLE FILL SHALL NOT BE PLACED UNTIL WATER HAS BEEN CONTROLLED OR GROUNDWATER LEVEL HAS BEEN LOWERED IN CONFORMANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION SECTION. 1. PROVIDE POSITIVE DRAINAGE AWAY FROM OR ACROSS ALL ARRAYS, SUBSTATIONS, INVERTERS, COMBINER BOXES, AND ROADWAYS. FINISHED GRADING OF THE SITE SHALL RESULT IN NO AREAS OF PONDING GREATER THAN THREE (3) INCHES IN DEPTH, UNLESS DESIGNED AS SUCH. 2. SITE SHALL BE DESIGNED TO SAFELY CONVEY THE 100-YR STORM PER NOAA BASED OFF THE CLOSEST REPORTING STATION. SAFFLY CONVEY SHALL BE UNDERSTOOD TO MEAN CONVEY STORMWATER FLOWS ACROSS THE SITE WITHOUT WASHING OUT ROADWAYS, LAYDOWN YARDS, EXPOSING UNDERGROUND CABLING, OR UNDERMINING PILES OR STRUCTURES, SUCH AS FENCES, EQUIPMENT PADS, AND SUBSTATION PADS, BEYOND THE SCOUR DEPTH DESIGNED FOR OR CREATING OTHER HAZARDS TO EQUIPMENT AND STAFF. (THIS MEANS THAT EROSIVE VELOCITIES ACROSS THE SITE FOR THE 100-YR STORM SHALL BE REVIEWED BY THE FOR TO CONFIRM THE APPROPRIATE SURFACE ARMORING IS IN PLACE (VEGETATION, CEMENT STABILIZATION, RIP RAP, APPROVED 3RD PARTY PROPRIETARY PRODUCTS, CONCRETE AS APPLICABLE), FOR CLARITY, CULVERTS WOULD NOT NEED TO BE DESIGNED TO ACCOMMODATE THE 100YR STORM SO LONG AS THE 100YR STORM CAN OVERTOP THE CROSSING AND PASS WITHOUT WASHING OUT THE ROADWAY.) 3.2 PRESERVATION AND/OR INSTALLATION OF WATER SYSTEMS A. CONTRACTOR SHALL PRESERVE EXISTING WATER INFRASTRUCTURE IF POSSIBLE (WATER WELLS WITH ELECTRIC SERVICE CONNECTION, WATER TAPS); OTHERWISE CONTRACTOR IS PRESENT A PLAN TO SR EPC FOR THE PERMITTING AND INSTALLATION OF ONE OR MORE WELLS OR WATER TAPS FOR USE DURING CONSTRUCTION, COVERING ANY PERMIT AND SERVICE FEES UNTIL FINAL COMPLETION, AND INCLUDE THESE SERVICE ARRANGEMENTS IN HAND OVER DOCUMENTS. 1. WELLS AND/OR WATER TAPS ARE TO BE INSTALLED PER SR EPC APPROVED PLAN ALLOWING FOR WATER TO BE ACCESSED COST EFFECTIVELY AND LOGICALLY THROUGHOUT THE VARIOUS FENCED ARRAYS. 2. WELLS SHOULD BE INSTALLED AT A LOCATION THAT ALLOWS FOR EASE OF ELECTRIC SERVICE CONNECTION AND HIGH CERTAINTY OF SUCCESSFUL 3. SOLAR POWERED WELL PUMPS (INDEPENDENT OF POWER PLANT) MAY BE INSTALLED BASED ON COST EFFECTIVENESS OR LACK OF ACCESS TO ELECTRIC SERVICES OR WATER TAPS. 3.3 SPECIAL REQUIREMENTS A. EROSION CONTROL 1. SEE REQUIREMENTS IN SECTION 31 25 00 EROSION AND SEDIMENTATION CONTROL. B. DRY-OUT TIME: 1. AHJ REQUIREMENTS SHOULD BE FOLLOWED FOR DRAWN DOWN/DEWATERING TIME FOR EROSION AND SEDIMENTATION CONTROL MEASURES. 2. CIVIL DESIGN SHALL NOT ALLOW STANDING WATER TO BE PRESENT ON-SITE FOR MORE THAN 2 DAYS AFTER A TYPICAL RAIN EVENT OR 4 DAYS AFTER A 100 YEAR/24HOUR RAIN EVENT AS DEFINED BY NATIONAL OCEANIC AND ATMOSPHERIC ASSOCIATION (NOAA) FOR THE CLOSEST NOAA REPORTING STATION TO THE SITE. C. DEVELOPING IN A FLOODPLAIN OR FLOODWAY 1. DEVELOPMENT IN A DEFINED FLOODPLAIN OR FLOODWAY SHALL BE APPROVED BY SR EPC PRIOR TO ADVANCEMENT OF DESIGN. a. CONTRACTOR SHALL PROVIDE SR EPC WITH A LIST OF IMPROVEMENT TYPES, QUANTITIES, UNIT COSTS, AND TOTAL COST OF IMPROVEMENTS IN EACH FLOODPLAIN ENCROACHMENT LOCATION TO SR EPC FOR RECORDS AND FACILITY INSURANCE CONSIDERATIONS. 2. APPLICABLE AHJ REQUIREMENTS SHALL GOVERN IF MORE STRINGENT THAN SR EPC REQUIREMENTS. D. ALL CONTRACTOR-PROVIDED SURVEYS SHALL INCLUDE A COMBINED SCALE FACTOR AND CORRESPONDING BASE POINT IN CAD ABOUT WHICH DRAWING CONTENT CAN BE SCALED TO CONVERT FROM GROUND TO GRID COORDINATES, SUCH AS STATE PLANE COORDINATE SYSTEMS, FOR PRECISE ALIGNMENT OF LINEWORK GATHERED BY GROUND SURVEY VERSUS OTHER GPS TECHNOLOGY. E. ALL OWNER OR SR EPC-SUPPLIED REPORTS, INCLUDING GEOTECH, HYDRO, SURVEY, SHALL BE CONSIDERED PRELIMINARY DOCUMENTS, SUBJECT TO THE REVIEW AND ACCEPTANCE BY THE CONTRACTOR. THE CONTRACTOR SHALL, AT THEIR DISCRETION, OBTAIN ADDITIONAL TESTING AND STUDIES, TO BE APPROVED BY SR EPC, TO PRODUCE FINAL DOCUMENTS AND WILL BE RESPONSIBLE AS THE CIVIL EOR, GEOTECHNICAL EOR, STRUCTURAL EOR, AND TOPOGRAPHIC SURVEY PORTIONS OF THE PROJECT AS APPLICABLE. F. HEIGHT OF ELECTRICAL EQUIPMENT UNDER CERTAIN DESIGN STORM CONDITIONS 1. AVOID THE PLACEMENT OF PV ARRAYS WITHIN LOW LYING AREAS WHERE A WETLAND DELINEATION OR HYDROLOGICAL STUDY HAS SHOWN WATER IS 2. ALL ELECTRICAL EQUIPMENT, WITH THE EXCEPTION OF TRANSFORMERS, MUST BE AT LEAST 1 FOOT ABOVE THE DATUM ESTABLISHED BY A NOAA 100-YEAR/24-HOUR RAINFALL EVENT AT FULL ROTATION ANGLES OR 2 FEET ABOVE GRADE AT ALL TIMES, WHICHEVER IS GREATER. ALL TRANSFORMERS (INCLUDING THE WORKING CLEARANCE AREA) MUST BE AT LEAST 6 INCHES ABOVE THE DATUM ESTABLISHED BY A NOAA 100-YEAR/24-HOUR RAINFALL EVENT. THE GOAL IS TO PREVENT THE SUBMERSION OF EQUIPMENT THAT IS NOT RATED TO BE UNDERWATER AND TO ENSURE FOUIPMENT IS SAFFLY ACCESSIBLE FOR MAINTENANCE PERSONNEL. 3. CONTRACTOR SHALL HIGHLIGHT IN THE DESIGN HOW SECTIONS F(1) AND F(2) HAVE BEEN ADDRESSED. WHERE THE CONTRACTOR IS UNABLE TO MEET THE REQUIREMENTS IN SECTIONS F(1) AND F(2), ALTERNATIVE SOLUTIONS SHALL BE PROPOSED. THE FINAL SOLUTION SHALL BE APPROVED BY SR EPC. G. EQUIPMENT ACCESSIBILITY DURING CERTAIN DESIGN STORM CONDITIONS 1. ALL AREAS WHERE EQUIPMENT IS LOCATED MUST BE DRAINED OF ALL STANDING WATER AND ACCESSIBLE BY MAINTENANCE PERSONNEL NO LATER THAN 36 HOURS AFTER A NOAA 100-YEAR OR LESS/24-HOUR RAINFALL EVENT UNLESS THE AREA IS IN A DRAINAGE BASIN. 2. ALL COMBINER BOXES, INVERTERS, TRANSFORMERS, AND EQUIPMENT FROM THE INVERTERS TO THE POINT OF INTERCONNECTION MUST BE SAFELY ACCESSIBLE BY PERSONNEL WITHOUT THE NEED TO STAND IN WATER WITHIN 24 HOURS OF A NOAA 100-YEAR OR LESS/24 HOUR RAINFALL 3. WHERE THE CONTRACTOR IS UNABLE TO MEET THE REQUIREMENTS IN SECTIONS G(1) AND G(2), ALTERNATIVE SOLUTIONS SHALL BE PROPOSED. THE

FINAL SOLUTION SHALL BE APPROVED BY SR EPC.

YARDS, AND THE PV ARRAY FIELD. THIS ROAD SHALL APPLY TO DRIVEWAYS AND SEGMENTS OF ROAD BETWEEN PUBLIC ROADS IMPROVED TO SUPPORT ADEQUATE DELIVERY ACCESS AND ANY SUBSTATIONS, SWITCHYARDS, LAYDOWN YARDS, AND PV ARRAY FIELD ENTRANCE GATES AND AS OTHERWISE DICTATED BY SR EPC DURING DESIGN REVIEWS. 1.3 SUBMITTALS A. SPECIFICATIONS FOR GEOTEXTILES, GEOGRID, OR OTHER MANUFACTURED ROADWAY STABILIZATION MATERIALS. B. SPECIFICATIONS AND/OR CUT SHEETS FOR ALL PRE-FABRICATED CULVERTS, HEADWALLS, INLETS, OUTLETS, OR OTHER DRAINAGE FEATURES WITHIN THE C. GRADATION / SIEVE ANALYSIS FOR ROADWAY SURFACING AND/OR SUBGRADE MATERIAL. PART 2 - PRODUCTS 2.1 PRODUCTS TO BE USED ON ROADWAYS SHALL BE SUBMITTED BY THE CONTRACTOR TO SR EPC FOR REVIEW SHOULD NOT BE PROCURED UNTIL SR EPC ISSUES WRITTEN APPROVAL 2.2 PRODUCT SUBSTITUTIONS SHALL NOT BE IMPLEMENTED WITHOUT WRITTEN APPROVAL BY SR EPC AND SEALED WRITTEN APPROVAL THE CIVIL ENGINEER OF RECORD. PART 3 - EXECUTION 3.1 DESIGN A. SECTION 1. ROAD SURFACE MATERIAL a. THE DEFAULT ROAD SURFACE MATERIAL SHALL BE AN SR EPC-APPROVED AGGREGATE BASE COURSE FOLLOWING A SEALED DESIGN RECOMMENDATION BY THE GEOTECHINCAL ENGINEER OF RECORD, UNLESS A MORE ROBUST ROAD SECTION IS OTHERWISE REQUIRED (SUCH AS ASPHALT CONCRETE, PORTLAND CEMENT CONCRETE, OR CEMENT-TREATED BASE). b. THE USE OF CRUSHED LIME ROCK AS A ROAD SURFACE MATERIAL MUST BE APPROVED IN WRITING BY SR EPC IN ADVANCE OF PROCUREMENT DUE TO EXPERIENCE WITH DUST/EROSION/MUD ISSUES ON SITES WHERE IT WAS USED AND CARE MUST BE TAKEN IN DESIGN TO MINIMIZE EXPOSURE TO STORMWATER FLOWS. 2. DESIGN LOADING CONDITIONS a road sections shall be designed to satisfy the following performance specification unless it is demonstrated that a REDUCED VEHICLE SIZE, WEIGHT, AND/OR LOADING FREQUENCY IS REASONABLE FOR O&M ACCESS TO THE FACILITY(IES) IN QUESTION AND APPROVED IN WRITING BY SR EPC. · SHALL BE DESIGNED TO ACCOMMODATE A MINIMUM OF 7 TRIPS PER DAY BY A FULLY LOADED 4-WHEEL DRIVE HEAVY DUTY PICK-UP TRUCK FOR THE FULL LIFE OF THE FACILITY WITH MINIMAL REGULAR MAINTENANCE REQUIRED. 2) "HEAVY DUTY ROADS" · SHALL BE DESIGNED TO ACCOMMODATE A MINIMUM OF 7 TRIPS PER DAY BY A FULLY LOADED 4-WHEEL DRIVE HEAVY DUTY PICK-UP TRUCK FOR THE FULL LIFE OF THE FACILITY WITH MINIMAL REGULAR MAINTENANCE REQUIRED. • IN ADDITION, HEAVY DUTY ROADS SHALL BE DESIGNED TO ACCOMMODATE A MINIMUM OF 1 TRIP PER MONTH, ASSUMING AASHTO HS-20 LOADING. 3. DUST CONTROL a. ROAD DESIGN SHALL SEEK TO MINIMIZE DUST/MUD KICKED UP BY TRAVELING VEHICLES ON SITE. THIS MAY BE ACHIEVED BY SOME COMBINATION OF THE FOLLOWING: 1) ROAD MATERIAL SELECTION 2) SEPARATION BETWEEN AGGREGATE AND SUBGRADE SOIL SECTIONS VIA GEOTEXTILE FABRIC 3) AVOIDANCE OF ISOLATED LOW SPOTS IN THE ROADWAY (ACHIEVED THROUGH GRADING DESIGN) WHERE ERODED FINES MAY ACCUMULATE 4) APPLICATION OF DUST PALLIATIVES MAY NOT BE USED WITHOUT WRITTEN SR EPC APPROVAL · IF DUST PALLIATIVES ARE USED, THEIR SPECIFICATIONS, COST, AND APPLICATION FREQUENCY SHALL BE COMMUNICATED TO 0&M. 4. GEOTEXTILES a. GEOTEXTILES ARE REQUIRED UNLESS SPECIFICALLY DEEMED OTHERWISE BY SRC, IN WRITING. 5. ROAD MAINTENANCE DURING CONSTRUCTION a. ALL TEMPORARY ACCESS ROADWAYS USED BY CONTRACTOR SHALL BE MAINTAINED BY CONTRACTOR IN SERVICEABLE CONDITION UNTIL SUBSTANTIAL COMPLETION. b. ROAD CONDITION AT FINAL COMPLETION SHALL MEET THE MINIMUM STANDARDS SHOWN IN THE IFC DRAWINGS c. IF MORE ROBUST ROAD SECTIONS ARE REQUIRED FOR INCREASED CONSTRUCTION VEHICLE SIZES. LOADING WEIGHTS OR FREQUENCIES. AND/OR MAINTENANCE PRACTICES AND FREQUENCIES, THE CONTRACTOR SHALL PROVIDE SR EPC WITH COST INFORMATION ABOUT THE RELATIVE INCREASE IN COST FROM THE BASIC ROAD DESIGN REQUIRED FOR 0&M SO THAT SR EPC MAY EVALUATE PAYMENT. B. HORIZONTAL AND VERTICAL ROAD GEOMETRY 1. SITE ACCESS ROADS SHALL PROVIDE SUFFICIENT ACCESS FOR THE REPLACEMENT OF MAJOR EQUIPMENT SUCH AS INVERTERS & TRANSFORMERS AS APPLICABLE AS WELL AS SUFFICIENT ACCESS FOR THE O&M OF THE FACILITY. a. THIS SHALL INCLUDE LOOPED ROADWAYS OR TURN AROUNDS TO ALLOW FOR CIRCULATION OF O&M VEHICLES. b. ROADS SHALL BE DESIGNED AS TO MAXIMIZE ACCESS TO ANCILLARY EQUIPMENT SUCH AS COMBINER BOXES. c. CONTRACTOR SHALL PROVIDE STABILIZED ACCESS ROADS WITHIN THE FACILITY THAT ALLOW ACCESS TO EACH INVERTER, TRANSFORMER, AND ALL OTHER AC EQUIPMENT. d. A MINIMUM OF 25' CLEAR SPACE SHALL BE PROVIDED ADJACENT TO THE OUTLETS OF ANY MODULE AISLES (NORTH AND SOUTH ENDS OF TRACKERS OR EAST AND WEST ENDS OF FIXED-TILT) AND ANY OTHER VERTICAL OBSTRUCTION ABOVE GRADE, A MINIMUM OF 15' CLEAR SPACE SHALL BE PROVIDED BETWEEN ANY TWO VERTICAL OBSTRUCTIONS ABOVE GRADE (FOR EXAMPLE MODULE AND FENCE), A MINIMUM OF 10' SHALL BE PROVIDED BETWEEN ANY SINGLE VERTICAL OBSTRUCTION ABOVE GRADE AND POTENTIAL DRIVING HAZARD (FOR EXAMPLE A 3:1 SLOPE OF A BASIN). THESE REPRESENT THE MINIMUM VALUES, ADDITIONAL SPACE IS PREFERRED 2. DESIGN VEHICLES SHALL BE CONSIDERED AS FOLLOWS UNLESS IT IS DEMONSTRATED THAT A REDUCED VEHICLE SIZE IS REASONABLE FOR O&M ACCESS TO THE FACILITY(IES) IN QUESTION AND APPROVED IN WRITING BY SR EPC. a. "HEAVY DUTY ROADS" SHALL ACCOMMODATE A 40-FOOT-LONG FLATBED TRAILER (53-FEET TOTAL WITH CAB) WITH 12-INCHES OF 1) THESE ROADS SHALL BE AT LEAST 20-FEET OF IMPROVED, CLEAR WIDTH 2) THESE ROADS SHALL FEATURE INNER RADII NOT LESS THAN 70-FEET FOR A 90-DEGREE TURN AND SHOULD BE INCREASED AS NEEDED TO SUPPORT GREATER TURNING ANGLES. b. "LIGHT DUTY ROADS" SHALL ACCOMMODATE A FULL-SIZE PICK-UP TRUCK WITH SKID STEER TRAILER. 1) THESE ROADS SHALL BE AT LEAST 12-FEET OF IMPROVED WIDTH 2) PROVIDE 4-FEET OF ADDITIONAL CLEARANCE BEYOND EACH EDGE OF THE ROADWAY TO THE NEAREST OBSTRUCTION, TO PROVIDE A TOTAL CLEAR WIDTH OF AT LEAST 20-FEET 3) THESE ROADS SHALL FEATURE INNER RADII NOT LESS THAN 45-FEET FOR A 90-DEGREE TURN AND SHOULD BE INCREASED AS NEEDED TO SUPPORT GREATER TURNING ANGLES FOR TRUCKS. 3. ROAD GEOMETRY SHALL BE VALIDATED WITH HORIZONTAL TRUCK TURN AND VERTICAL TRUCK CLEARANCE TEMPLATES, AUTOTURN, DEPICTIONS, OR SIMILAR METHODOLOGY AND SAID VALIDATION SHALL BE MADE AVAILABLE TO SR EPC UPON REQUEST TO DEMONSTRATE COMPLIANCE WITH DESIGN VEHICLE REQUIREMENTS. 4. MAX LONGITUDINAL SLOPE OF 10% AND MAX CROSS SLOPE OF 5%. IF ROAD IS CROWNED, MAX 2% CROSS SLOPE. C. DRAINAGE 1. ROAD SHALL PROVIDE A LOW MAINTENANCE DRIVING SURFACE, WITHOUT REGULAR WASHOUT, PONDING, OR SURFACE EROSION, AND THIS SHOULD BE REFLECTED IN BOTH ROAD SECTION DESIGN AND THE DESIGN OF SITE HYDRAULICS. a. IF ROADSIDE DITCHES ARE USED, SET FLOWLINES AWAY AND BELOW THE IMPROVE EDGE OF THE ROAD SECTION AND ENGINEER THEM TO AVOID INUNDATION AND DAMAGE FROM STORMWATER RUNOFF. 2. IF CRUSHED LIME ROCK OR A SIMILAR MATERIAL THAT IS SUBJECT TO ACCELERATED DEGRADATION WHEN WET IS USED AS THE ROAD SURFACE MATERIAL. EXTRA CARE SHALL BE TAKEN TO DESIGN CONVEYANCE OF STORMWATER RUNOFF AWAY FROM THE EDGES AND SURFACE OF THE ROAD WITH EXTRA REINFORCEMENT PROVIDED WHERE WATER CROSSES THE ROAD. 3. STORMWATER THAT MUST CROSS THE ROAD SHALL BE CONVEYED WITH THE FOLLOWING CRITERIA a. STORMWATER CONVEYANCE METHOD 1) PRIMARY (PREFERRED) CONVEYANCE METHOD SHALL BE BY CULVERT UNDER THE ROAD, UNLESS PROVEN TO BE IMPRACTICAL OR 2) SECONDARY (ALTERNATE) CONVEYANCE METHOD SHALL BE BY LOW WATER CROSSING COMPRISED OF AN APPROVED MATERIAL FROM THE FOLLOWING LIST: PRIMARY (PREFERRED) MATERIAL IS CONCRETE • SECONDARY (ALTERNATE) MATERIAL IS PROPRIETARY PRODUCTS SUCH AS ARTICULATED CONCRETE BLOCK b. IMPROVEMENTS SHALL CONVEY THE 25-YEAR STORM 24 HR AND SHALL WITHSTAND THE 100-YEAR 24 HR STORM WITH MINIMAL MAINTENANCE REQUIRED BASED ON THE NOAA PRECIPITATION TABLE AT CLOSEST REPORTING STATION. D. DRIVEWAYS AND EXISTING APPROACH ROADS 1. PROJECT ENTRANCES CONNECTING TO EXISTING PUBLIC & PRIVATE ROADWAYS SHALL BE DOCUMENTED IN SUFFICIENT DETAIL TO INDICATE PRE- AND POST-DEVELOPMENT CONDITION. a. DRIVEWAYS SHALL BE SURFACED AND GIVEN DRAINAGE CONVEYANCE IMPROVEMENTS AS REQUIRED BY THE AHJ 2. EXISTING PUBLIC AND PRIVATE ROADWAYS SHALL BE RESTORED TO MEET OR EXCEED PREDEVELOPMENT CONDITION. 3. IMPROVEMENTS TO EXISTING OR PROPOSED PUBLIC OR SHARED PRIVATE ROADS MAY BE HELD TO HIGHER STANDARDS THAN THOSE ENUMERATED HEREIN AND SHALL COMPLY WITH STANDARDS SET FORTH BY CORRESPONDING STAKEHOLDERS.

32 13 10 ROADWAY SPECIFICATIONS

B. RELATED SPECIFICATION SECTIONS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO:

MANUFACTURERS OR SUPPLIERS LISTED IN THE MANUFACTURERS OF MAJOR EQUIPMENT PROVIDED IN THE EPC AGREEMENT

1. SECTION 31 23 00, EARTHWORK AND WATER SYSTEMS

PART 1 - GENERAL

A. SECTION INCLUDES

1.1 SUMMARY

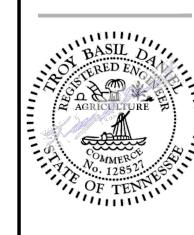
1.2 DEFINITIONS

32 31 13 AGRIVOLTAIC FENCE AND GATES SPECS PART 1 - GENERAL 1.1 SUMMARY A. SECTION INCLUDES: 1. CHAIN LINK FENCING AND GATES 1. THIS WORK CONSISTS OF ROADWAYS LEADING TO AND CIRCULATING THROUGHOUT THE PROJECT SITE AS SHOWN ON THE DRAWINGS AND 2. AGRIVOLTAIC FENCE B. RELATED SPECIFICATION SECTIONS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: 1. SECTION 31 23 00 - EARTHWORK AND WATER SYSTEMS 2. SECTION 26 05 26 - GROUNDING AND BONDING 3. SECTION 26 05 73 - POWER SYSTEMS ANALYSIS A. MANUFACTURERS OR SUPPLIERS, AS USED IN THE CONTEXT OF "APPROVED MANUFACTURERS OR SUPPLIERS OF MAJOR EQUIPMENT", SHALL MEAN THE 1.2 QUALITY ASSURANCE A. REFERENCED STANDARDS: B. "LIGHT DUTY ROAD" SHALL BE DEFINED TO MEAN A ROAD DESIGNED TO SUPPORT INFREQUENT TRAFFIC BY RELATIVELY SMALL AND LIGHT VEHICLES AS 1. ASTM INTERNATIONAL (ASTM): NEEDED FOR GENERAL OPERATIONS AND MAINTENANCE (O&M) OF THE PV ARRAY FIELD. THIS ROAD SHALL APPLY TO ROADS WITHIN THE PV ARRAY a. A153/A153M. STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE. FIELD PERIMETER FENCE AND BETWEEN SEPARATELY FENCED ÁREAS. OTHER THAN THOSE OTHERWISE CLASSIFIED AS "HEAVY DUTY ROADS". b. A392. STANDARD SPECIFICATION FOR ZINC-COATED STEEL CHAIN-LINK FENCE FABRIC C. "HEAVY DUTY ROAD" SHALL BE DEFINED TO MEAN A ROAD DESIGNED TO SUPPORT INFREQUENT TRAFFIC BY RELATIVELY LARGE AND HEAVY VEHICLES, C. A824. STANDARD SPECIFICATION FOR METALLIC-COATED STEEL MARCELLED TENSION WIRE FOR USE WITH CHAIN-LINK FENCE. WHICH MAY BE NEEDED FOR DELIVERIES, REPAIRS, AND GENERAL OPERATIONS AND MAINTENANCE (0&M), OF SUBSTATIONS, SWITCHYARDS, LAYDOWN d. F552, STANDARD TERMINOLOGY RELATING TO CHAIN LINK FENCING. e. F567, STANDARD PRACTICE FOR INSTALLATION OF CHAIN-LINK FENCE f. F626. STANDARD SPECIFICATION FOR FENCE FITTINGS. q. F900, STANDARD SPECIFICATION FOR INDUSTRIAL AND COMMERCIAL STEEL SWING GATES. h. F1043, STANDARD SPECIFICATION FOR STRENGTH AND PROTECTIVE COATINGS ON STEEL INDUSTRIAL FENCE FRAMEWORK. i. F1083, STANDARD SPECIFICATION FOR PIPE, STEEL, HOT-DIPPED ZINC-COATED (GALVANIZED) WELDED, FOR FENCE STRUCTURES. 2. AMERICAN WELDING SOCIETY (AWS). 3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA): a. NFPA 70, NATIONAL ELECTRICAL CODE (NEC). 4. UNDERWRITERS LABORATORIES, INC. (UL). B. QUALIFICATIONS: 1. INSTALLER BONDED AND LICENSED IN THE PROJECT STATE. 2. INSTALLER SHALL HAVE A MINIMUM TWO (2) YEARS OF EXPERIENCE INSTALLING SIMILAR FENCING. 3. UTILIZE ONLY AWS CERTIFIED WELDERS. 4. GROUNDING BY AN ELECTRICIAN LICENSED IN PROJECT STATE. 1.3 DEFINITIONS A. SEE ASTM F552. B. NPS: NOMINAL PIPE SIZE, IN INCHES C. INSTALLER OR APPLICATOR: 1. INSTALLER OR APPLICATOR IS THE PERSON ACTUALLY INSTALLING OR APPLYING THE PRODUCT IN THE FIELD AT THE PROJECT SITE. 2. INSTALLER AND APPLICATOR ARE SYNONYMOUS. 1.4 SUBMITTALS A. SHOP DRAWINGS: 1. PRODUCT TECHNICAL DATA INCLUDING: a. ACKNOWLEDGEMENT THAT PRODUCTS SUBMITTED MEET REQUIREMENTS OF STANDARDS REFERENCED. b. MANUFACTURER'S INSTALLATION INSTRUCTIONS 2. SCALED PLAN LAYOUT SHOWING SPACING OF COMPONENTS, ACCESSORIES, FITTINGS, AND POST ANCHORAGE. 3. MILL CERTIFICATES 4. SOURCE QUALITY CONTROL TEST RESULTS. PART 2 - PRODUCTS 2.1 COMPONENTS A. ALL STEEL FENCING COMPONENTS SHALL BE HOT-DIPPED GALVANIZED. B. ALL RAIL, WIRE, AND GATES SHALL BE GALVANIZED. C. AGRIVOLTAIC FENCE FABRIC: a. SOLID LOCK FOR GAME 2096-6 OR SR EPC-APPROVED EQUAL b. CONTRACTOR MAY EVALUATE AN OFF-THE-SHELF PRODUCT OR A CUSTOM FABRICATED PRODUCT, IF LOCALLY AVAILABLE AND APPROVED BY 2. 7 FT. TALL FROM BOTTOM OF FABRIC TO TOP OF FABRIC, OR BARBED WIRE, IF APPROVED BY SR EPC. 3. BOTTOM OF FABRIC SHALL BE NO MORE THAN 2 INCHES CLEAR ABOVE THE FINISH GRADE. D. CHAIN LINK FABRIC (IF APPROVED BY SR EPC FOR USE AS AN ALTERNATIVE TO AGRIVOLTAIC FENCE FABRIC): 1. FABRIC TYPE: a. ASTM A392 ZINC-COATED STEEL: 1) COATED BEFORE WEAVING, 2.0 OZ/SF. 2. WIRE GAUGE: 9 3. MESH SIZE: 2 INCHES. 4. 7 FT. TALL FROM BOTTOM OF FABRIC TO TOP OF FABRIC, OR BARBED WIRE, IF APPROVED BY SR EPC. 5. SELVAGE TREATMENT: a. TOP: TWISTED b. BOTTOM: KNUCKLED 6. BOTTOM OF FABRIC SHALL BE NO MORE THAN 2 INCHES CLEAR ABOVE THE FINISH GRADE. F. LINE POST: 1. ASTM F1083 PIPE: a. SCHEDULE 40, NPS 2 F. CORNER OR TERMINAL POSTS: 1. ASTM F1083 PIPE: a. SCHEDULE 40. NPS 2-1/2 G. BRACE AND RAILS: 1. ASTM F1083 PIPE a. SCHEDULE 40, NPS 1-1/4. H. TENSION WIRE: 1 TOP AND BOTTOM OF FARRIC a. ASTM A824, GALVANIZED STEEL, CLASS 3. I. FENCE FITTINGS (POST AND LINE CAPS, RAIL AND BRACE ENDS, SLEEVES—TOP RAIL, TIE WIRES AND CLIPS, TENSION AND BRACE BANDS, TENSION BARS, TRUS 1. ASTM F626. J. SWING GATE: 1. ASTM F900. 2. MATERIALS AS SPECIFIED FOR FENCE FRAMEWORK AND FABRIC. HARDWARE: a. GALVANIZED PER ASTM A153. b. HINGES TO PERMIT 180-DEGREE INWARD AND OUTWARD GATE OPENING. c. PROVIDE HEAVY DUTY PADLOCK OR SPECIFIC LOCK HARDWARE AS REQUIRED BY THE AHJ. 4. THERE SHOULD BE A MINIMUM OF 2 ACCESS GATES PER FENCED AREA 5. GATES SHALL BE ABLE TO BE SWUNG 360 DEGREES AND LOCKED WITH A CHAIN AND OUTDOOR RATED LOCK. K. WHEN FENCE SCREENING (PRIVACY SLATS FOR INSTANCE) IS REQUIRED THEN THE FENCE POSTS MUST BE RE- ENFORCED APPROPRIATELY TO WITHSTAND WIND L. FENCE GROUNDING REQUIREMENTS PER SECTION 26 05 26 GROUNDING AND BONDAGE AND SECTION 26 05 73 POWER SYSTEMS ANALYSIS 2.2 SOURCE QUALITY CONTROL A. TEST RELATED FENCE CONSTRUCTION MATERIALS TO MEET THE FOLLOWING STANDARDS: 1. POSTS AND RAILS: a. ASTM F1043, HEAVY INDUSTRIAL. PART 3 - EXECUTION 3.1 INSTALLATION A. INSTALL IN ACCORDANCE WITH: 1. MANUFACTURER'S INSTRUCTIONS. 2. HORIZONTAL LOCATIONS AND ELEVATIONS SHOWN ON DRAWINGS. B. AREAS IN WHICH FENCING IS TO BE INSTALLED SHALL BE BROUGHT TO DESIGN GRADE PRIOR TO FENCE INSTALLATION. C. DRILL HOLES IN FIRM, UNDISTURBED OR COMPACTED SOIL D. FENCING FABRIC SHALL BE INSTALLED SUCH THAT THE BOTTOM CLEARANCE IS THREE (3) INCHES OR LESS. 1. CORRECT MINOR IRREGULARITIES IN EARTH TO MAINTAIN CLEARANCE TOLERANCES. E. SPACE LINE POSTS AT EQUAL INTERVALS NOT EXCEEDING 10 FT. OC. 1. EMBED ALL CORNER POST, GATE POST, AND DEAD-END POST IN CONCRETE 2. WHERE SLATS ARE REQUIRED BY LOCAL CODE. ALL POST MUST BE IN CONCRETE 3. WHERE EXTREMELY LONG, GREATER THAT 300', RUNS EXIST A STRETCHING STRUCTURE FOR PROPER FABRIC STRETCHING WILL BE IN CONCRETE. F. PROVIDE POST BRACES FOR EACH GATE, CORNER, PULL AND TERMINAL POST AND FIRST ADJACENT LINE POST. G. INSTALL TENSION BARS FULL HEIGHT OF FABRIC. H. RAILS: 1. FIT RAILS WITH EXPANSION COUPLINGS OF OUTSIDE SLEEVE TYPE. 2. RAILS CONTINUOUS FOR OUTSIDE SLEEVE TYPE FOR FULL LENGTH OF FENCE. I. PROVIDE EXPANSION COUPLINGS IN TOP RAILS AT NOT MORE THAN 20 FT INTERVALS. J. ANCHOR TOP RAILS TO MAIN POSTS WITH APPROPRIATE WROUGHT OR MALLEABLE FITTINGS. K. INSTALL BRACING ASSEMBLIES AT ALL END AND GATE POSTS, AS WELL AS SIDE, CORNER, AND PULL POSTS. 1. LOCATE COMPRESSION MEMBERS AT MID-HEIGHT OF FABRIC 2. EXTEND DIAGONAL TENSION MEMBERS FROM COMPRESSION MEMBERS TO BASES OF POSTS. 3. INSTALL SO THAT POSTS ARE PLUMB WHEN UNDER CORRECT TENSION. L. PULL FABRIC TAUT AND SECURE TO POSTS AND RAILS. 1. SECURE SO THAT FABRIC REMAINS IN TENSION AFTER PULLING FORCE IS RELEASED. 2. SECURE TO POSTS AT NOT OVER 15 IN OC, AND TO RAILS AT NOT OVER 24 IN OC, AND TO TENSION WIRE AT NOT OVER 24 IN OC. 3. USE U-SHAPED WIRE CONFORMING TO DIAMETER OF PIPE TO WHICH ATTACHED, CLASPING PIPE AND FABRIC FIRMLY WITH ENDS TWISTED AT LEAST TWO (2) 4. BEND ENDS OF WIRE TO MINIMIZE HAZARDS TO PERSONS OR CLOTHING. M. INSTALL POST TOP AT EACH POST. 1. CONSTRUCT WITH FITTINGS OR BY WELDING. 2. PROVIDE RIGID, WEATHERPROOF JOINTS. 3. ASSURE RIGHT, NON-SAGGING, NON-TWISTING GATI 4. COAT WELDS WITH RUST PREVENTIVE PAINT, COLOR TO MATCH PIPE. O. FENCE STREAM CROSSINGS SHALL ACCOUNT FOR ANTICIPATED STORMWATER FLOWS AND POTENTIAL DEBRIS. ALLOWING FLOWS AND DEBRIS TO PASS THROUGH P. PROVIDE 20' CLEARANCE BETWEEN FENCE AND ANY NEW PLANTING THAT WOULD BE AN OBSTACLE TO MAINTENANCE. PROVIDE 20' CLEARANCE BETWEEN FENCE AND EXISTING UNCLEARED AREA, INCLUDING ANY LARGE ROCKS, TREE STUMPS, OR OTHER MAINTENANCE OBSTRUCTIONS, UNLESS APPROVED BY SR EPC.

> FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION



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Designed

RDT RMR N/A Scale Project No. 2300034 2/6/2025

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CIVIL NOTES AND

Sheet No.

a. CONTROL GRADING AROUND STRUCTURES SUCH THAT GROUND IS SLOPED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS OR DAMAGING

e. PROVIDE FREE DISCHARGE OF WATER BY TRENCHES, PUMPS, WELLS, WELL POINTS, OR OTHER MEANS TO A DISCHARGE LOCATION THAT WILL NOT DAMAGE

b. MAINTAIN EXCAVATIONS WHERE FOUNDATIONS, FLOOR SLABS, EQUIPMENT SUPPORT PADS OR FILL MATERIAL ARE TO BE PLACED FREE OF WATER.

c. PROVIDE PUMPING REQUIRED TO KEEP EXCAVATED SPACES CLEAR OF WATER DURING CONSTRUCTION.

d. SHOULD ANY WATER BE ENCOUNTERED IN THE EXCAVATION, NOTIFY ENGINEER.

EXISTING CONSTRUCTION OR INTERFERE WITH CONSTRUCTION OPERATIONS

DRAINAGE:

STRUCTURES.

EXECUTION SECTION BELOW. 2. THIS WORK SHALL CONSIST OF TEMPORARY MEASURES NEEDED TO CONTROL EROSION AND WATER POLLUTION. THESE TEMPORARY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BERMS, DIKES, DAMS, SEDIMENT BASINS, FIBER MATS, NETTING, GRAVEL, MULCHES, GRASSES, SLOPE DRAINS, AND OTHER EROSION CONTROL DEVICES OR METHODS. THESE TEMPORARY MEASURES SHALL BE INSTALLED AT THE LOCATIONS WHERE NEEDED TO CONTROL

EROSION AND WATER POLLUTION DURING THE CONSTRUCTION OF THE PROJECT, AND AS DIRECTED BY ENGINEER, AND AS SHOWN ON THE DRAWINGS 3. ENGINEER SHALL DEVELOP ALL NECESSARY PLANS AND PERMITTING DOCUMENTS. AS NECESSARY. TO MEET ALL FEDERAL. STATE AND LOCAL REQUIREMENTS RELATED TO TEMPORARY AND PERMANENT STORMWATER DISCHARGE.

4. THE EROSION CONTROL PLAN PRESENTED IN THE DRAWINGS SERVES AS A MINIMUM REQUIREMENT FOR EROSION CONTROL DURING CONSTRUCTION. CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR PROVIDING ADEQUATE EROSION CONTROL AND WATER QUALITY THROUGHOUT THE DURATION OF THE PROJECT. THEREFORE, IF THE PROVIDED PLAN IS NOT WORKING SUFFICIENTLY TO PROTECT THE PROJECT AREAS, THEN CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS REQUIRED TO OBTAIN THE REQUIRED PROTECTION. CONTRACTOR'S WORK SHALL INCLUDE ALL ITEMS INDICATED ON THE EROSION CONTROL PLANS. AS WELL AS ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO ENSURE PROTECTION OF THE SITE FROM STORMWATER, AND PRESERVATION OF WATER QUALITY, AS DETERMINED BY FEDERAL, STATE AND LOCAL AUTHORITIES

B. RELATED SPECIFICATION SECTIONS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO:

1. SECTION 31 11 00, CLEARING AND GRUBBING. 2. SECTION 31 23 00 EARTHWORK AND WATER SYSTEMS

C. LOCATION OF WORK: ALL AREAS WITHIN LIMITS OF GRADING AND ALL AREAS OUTSIDE LIMITS OF GRADING WHICH ARE DISTURBED IN THE COURSE OF THE WORK. D. REQUIREMENTS AS LAID OUT IN THE SWPPP REQUIREMENTS OVERRIDE SPECIFICATIONS LAID OUT WITHIN THIS DOCUMENT IF THERE IS A CONFLICT.

1.2 SUBMITTALS

A. SUBMIT THE REQUIRED INFORMATION AS REQUIRED BY THE LOCAL AGENCY, INCLUDING BUT NOT LIMITED TO: CONSTRUCTION SCHEDULE FOR EROSION CONTROL.

2. SEQUENCING PLAN PER ARTICLE SCHEDULING.

3. PLAN FOR DISPOSAL OF WASTE MATERIAL 4. PRODUCT DATA FOR MATERIALS PROPOSED FOR USE

B. CONTRACTOR SHALL SUBMIT THE FOLLOWING TO SR EPC:

1. COMPLETE SWPPP PACKAGE FOR REVIEW AND FEEDBACK INCLUDING, BUT NOT NECESSARILY LIMITED TO: CULVERT, STORM DRAINS, HEADWALLS, PIPE INLETS AND OUTLETS, END SECTIONS, SOIL ADMIXTURES, AND PALLIATIVES. 2. COMPLETE SWPPP PACKAGE AS SUBMITTED TO THE AHJ

3. ALL ASSOCIATED DOCUMENTATION AS REQUIRED BY THE SWPPP, INCLUDING BUT NOT LIMITED TO:

NOTICE OF INTENT

· NOTICE OF COVERAGE

NOTICE OF TERMINATION

4. A GRADING CHECK TOPOGRAPHIC SURVEY (GRADING CHECK) SHALL BE PERFORMED AFTER COMPLETION OF SITE GRADING ACTIVITIES AND BEFORE INSTALLATION OF EQUIPMENT (INCLUDING PILES) TO ENSURE THE FINAL GRADING IS IN GENERAL CONFORMANCE WITH THE APPROVED GRADING PLAN. THIS GRADING CHECK MAY BE PERFORMED IN PHASÉS. THE GRADING CHECK SURVEY SHALL BE COLLECTED USING GROUND— BASED EQUIPMENT AND INCLUDE

· A MINIMUM GRID INTERVAL OF 100' X 100' THROUGHOUT THE GRADED AREAS OF THE SITE. SITES WITH PARTICULARLY STEEP GRADES, AND/OR SIGNIFICANT UNDULATION SHALL BE SHOT AT A MINIMUM 50'X 50' GRID (TO BE DETERMINED BY SR EPC).

ADDITIONAL SURVEY POINTS AT AREAS OF SPECIFIC INTEREST INCLUDING HIGH AND LOW POINTS, RIDGELINES, SWALES, CHANNELS, CULVERTS, RETENTION/DETENTION BASINS AND ANY OTHER CIVIL IMPROVEMENT FEATURES.

· SURVEY OF ALL ONSITE ROADWAYS, AT A MAXIMUM INTERVAL OF 100'. INCLUDE CENTERLINE AND EDGE—OF—ROADWAY AT EACH LOCATION, AS WELL AS ALL AREAS OF SPECIFIC INTEREST, INCLUDING HIGH AND LOW-POINTS, INTERSECTIONS, CORNERS, ENTRANCES, GRADE BREAKS AND DESIGNATED LOW-FLOW DRAINAGE CROSSINGS. IF GRAVEL IS TO BE ADDED TO THE ROADWAY SURFACE NEAR THE END OF CONSTRUCTION, THE GRADING CHECK SURVEY MAY INCLUDE ONLY THE CENTERLINE OF EACH ROADWAY ALIGNMENT AT 100-FT INTERVALS.

5. GRADING CHECK SURVEY SHALL BE PROVIDED IN AUTOCAD (.DWG) FORMAT AND INCLUDE BOTH THE RAW SURVEY SHOTS (POINTS) AND 1-FT CONTOUR LINES WITHIN THE GRADED AREA. THE SURVEY SHALL BE BASED ON HORIZONTAL AND VERTICAL CONTROL CONSISTENT WITH THE EXISTING GROUND (PRE-CONSTRUCTION) SURVEY AND CIVIL PLANS.

6. GRADING CHECK SURVEY SHALL BE DELIVERED TO SR EPC FOR APPROVAL AFTER COMPLETION OF THE GRADING ACTIVITIES. AND PRIOR TO INSTALLATION OF PILES. ELECTRICAL EQUIPMENT FOUNDATIONS. UNDERGROUND CABLE INSTALLATION OR ANY OTHER SUB-SURFACE WORK. IN INSTANCES WHERE SUB-SURFACE WORK IS SCHEDULED TO BEGIN PRIOR TO COMPLETION OF SITE GRADING, THE GRADING CHECK SURVEY MAY BE COLLECTED AND DELIVERED TO SR EPC FOR REVIEW IN PHASES. THIS IS TO BE COORDINATED WITH SR EPC PRIOR TO THE START OF GRADING OR OTHER CIVIL—RELATED ACTIVITIES.

7. AFTER COMPLETION OF ALL CIVIL IMPROVEMENTS, A FINAL CIVIL AS-BUILT SURVEY (CIVIL AS-BUILTS) SHALL BE PREPARED AND DELIVERED TO SR EPC IN BOTH AUTOCAD (.DWG) AND PDF FORMAT. CIVIL AS-BUILTS SHALL SATISFY ALL JURISDICTIONAL REQUIREMENTS FOR PERMIT CLOSE-OUT, INCLUDING SIGNATURE OF THE SURVEYOR OR ENGINEER, IF REQUIRED. CIVIL AS-BUILTS SHALL, AT A MINIMUM, INCLUDE THE FOLLOWING:

· FINAL GRADING CONTOURS AND INDIVIDUAL SURVEY POINTS AT SPECIFIC AREAS OF INTEREST, COLLECTED DURING THE GRADING CHECK SURVEY AND ANY SUBSEQUENT GRADING ADJUSTMENTS.

· FINAL GRADES ALONG ONSITE AND ANY OFFSITE ROADWAYS THAT HAVE BEEN IMPROVED, INCLUDING ANY SURFACE GRAVEL AND/OR PAVEMENT · LOCATIONS AND ELEVATIONS OF ALL CIVIL IMPROVEMENT FEATURES, INCLUDING CULVERTS, HEADWALLS, SWALES, CHANNELS, RETENTION/DETENTION BASINS,

· ELEVATIONS OF ALL CONCRETE PADS FOR ELECTRICAL EQUIPMENT.

PART 2 - PRODUCTS 2.1 MATERIALS

A. ALL MATERIALS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

B. MATERIALS MAY INCLUDE HAY BALES, STRAW, FIBER MATS, FIBER NETTING, WOOD CELLULOSE, FIBER FABRIC, GRAVEL, AND OTHER SUITABLE MATERIALS, AND SHALL BE REASONABLY CLEAN, FREE OF DELETERIOUS MATERIALS, AND CERTIFIED WEED FREE.

PART 3 - EXECUTION

A. ALL TEMPORARY STORMWATER AND/OR EROSION CONTROL BMPS SHALL BE ROUTINELY INSPECTED AND MAINTAINED, AS NECESSARY, TO SERVE THEIR INTENDED FUNCTION THROUGH CONSTRUCTION, OR ISSUANCE OF NOTICE OF TERMINATION (NOT). B. SR EPC WILL MONITOR CONTRACTOR'S EROSION CONTROL AND WORK METHODS.

1. IF THE OVERALL FUNCTION AND INTENT OF EROSION CONTROL IS NOT BEING MET, SR EPC WILL REQUIRE CONTRACTOR TO PROVIDE ADDITIONAL MEASURES AS REQUIRED TO OBTAIN THE DESIRED RESULTS.

2. COSTS FOR ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE PAID BY CONTRACTOR.

C. THE EROSION CONTROL FEATURES INSTALLED BY CONTRACTOR SHALL BE ADEQUATELY MAINTAINED BY CONTRACTOR UNTIL THE PROJECT SWPPP IS FORMALLY CLOSED BY THE AHJ.

D. WORKING IN OR CROSSING WATERCOURSES AND WETLANDS:

1. CONSTRUCTION VEHICLES SHALL BE KEPT OUT OF WATERCOURSES TO THE EXTENT POSSIBLE. 2. WHERE IN-CHANNEL WORK IS ALLOWED BY PERMIT, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE

a. THE CHANNEL (INCLUDING BED AND BANKS) SHALL ALWAYS BE RESTABILIZED IMMEDIATELY AFTER IN- CHANNEL WORK IS COMPLETED.

3. WHERE A LIVE (WET) WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING SHALL BE

PROVIDED FOR THIS PURPOSE IF ALLOWED BY PERMIT. 3.2 PROTECTION OF ADJACENT PROPERTIES

A. PROPERTIES ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION. B. IN ADDITION TO THE EROSION CONTROL MEASURES REQUIRED ON THE DRAWINGS, PERIMETER CONTROLS MAY BE REQUIRED, AND MAY INCLUDE, BUT IS NOT LIMITEDTO:

1. VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF THE LAND DISTURBANCE.

2. SEDIMENT BARRIERS SUCH AS STRAW BALES, EROSION LOGS, AND SILT FENCES. 3. SEDIMENT BASINS AND POROUS LANDSCAPE DETENTION PONDS.

4. COMBINATION OF ABOVE MEASURES.

3.3 CONSTRUCTION

E. CONSTRUCTION ACCESS ROUTES:

A. STABILIZATION OF DISTURBED AREAS:

1. TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE ESTABLISHED AS REQUIRED BY THE SWPPP

2. PERMANENT EROSION PROTECTION MEASURES SHALL BE ESTABLISHED AS REQUIRED BY THE SWPPP

B. STABILIZATION OF SEDIMENT AND EROSION CONTROL MEASURES: 1. SEDIMENT BARRIERS, PERIMETER DIKES, AND OTHER MEASURES INTENDED TO EITHER TRAP SEDIMENT OR PREVENT RUNOFF FROM FLOWING OVER DISTURBED

AREAS SHALL BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE LAND DISTURBANCE TAKES PLACE.

2. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS SHALL BE STABILIZED WITHIN FIVE (5)DAYS OF INSTALLATION. 3. STORMWATER OUTLETS SHALL ALSO BE STABILIZED PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.

C. STABILIZATION OF WATERWAYS AND OUTLETS: 1. ALL ONSITE STORMWATER CONVEYANCE CHANNELS USED BY CONTRACTOR FOR TEMPORARY EROSION CONTROL PURPOSES SHALL BE DESIGNED AND CONSTRUCTED WITH ADEQUATE CAPACITY AND PROTECTION TO PREVENT EROSION DURING STORM AND RUNOFF EVENTS.

2. STABILIZATION ADEQUATE TO PREVENT EROSION SHALL ALSO BE PROVIDED AT THE OUTLETS OF ALL PIPES AND CHANNELS. D. STORM SEWER INLET PROTECTION: ALL STORM SEWER INLETS WHICH ARE MADE OPERABLE DURING CONSTRUCTION OR WHICH DRAIN STORMWATER RUNOFF FROM A CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION BY THE USE OF FILTERS.

1. WHEREVER CONSTRUCTION VEHICLES ENTER OR LEAVE A CONSTRUCTION SITE, A STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED.

2. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. 3. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A SEDIMENT CONTROLLED DISPOSAL AREA.

4. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. 3.4 DISPOSAL OF TEMPORARY MEASURES A. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (ALL BMP'S, INCLUDING TEMPORARY RETENTION/DETENTION BASINS) SHALL BE DISPOSED OF WITHIN

THIRTY (30)DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AND AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED AS DETERMINED BY THE NOTICE OF TERMINATION (NOT) OF THE SWPPP B. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO

PREVENT FURTHER EROSION. C SUBSTANTIAL COMPLETION OF FROSION CONTROL MEASURES:

1. AT THE TIME SPECIFIED IN THE CONTRACT DOCUMENTS, AND SUBJECT TO COMPLIANCE WITH SPECIFIED MATERIALS AND INSTALLATION REQUIREMENTS, CONTRACTOR SHALL RECEIVE A SUBSTANTIAL COMPLETION CERTIFICATE FOR TEMPORARY EROSION CONTROL MEASURES. 2. MAINTENANCE OF EROSION CONTROL MEASURES AFTER SUBSTANTIAL COMPLETION: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY EROSION CONTROL MEASURES AS SPECIFIED IN THE DRAWINGS AND CONTRACT DOCUMENTS UNTIL SUCH TIME AS WORK HAS BEEN ACCEPTED BY SR EPC

D. FINAL COMPLETION AND ACCEPTANCE OF EROSION CONTROL MEASURES:

1. AFTER ENGINEER AND SR EPC HAVE DETERMINED THAT THE DRAINAGE AREA HAS STABILIZED, CONTRACTOR SHALL REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES.

2. ANY DAMAGE TO THE SITE SHALL BE REPAIRED TO THE SATISFACTION OF ENGINEER AND AT NO COST TO SR EPC.

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:

1. THE WORK UNDER THIS SECTION INCLUDES PROVIDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR FURNISHING AND PLACING A PROTECTIVE COVERING OF STONE, AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER.

PART 2 - PRODUCTS 2.1 MATERIALS

A. RESERVED.

3.1 CONSTRUCTION

A FOUNDATION OR TOE TRENCHES AND OTHER NECESSARY EXCAVATION SHALL BE COMPLETED AND APPROVED BY THE ENGINEER BEFORE THE PLACING OF RIPRAP IS BEGUN. SLOPES TO BE PROTECTED WITH RIPRAP SHALL BE FREE OF BRUSH, TREES, STUMPS AND OTHER OBJECTIONABLE MATERIAL AND SHALL BE DRESSED TO A REASONABLY SMOOTH SURFACE

B. THE STONES SHALL BE HANDLED OR PLACED WITH AN EXCAVATOR AS TO SECURE A STONE MASS OF THE THICKNESS, HEIGHT AND LENGTH

SHOWN ON THE DRAWINGS, OR AS STAKED, WITH A MINIMUM OF VOIDS.

C. UNDESIRABLE VOIDS SHALL BE FILLED WITH SMALL STONES OR SPALLS. THE ROCK SHALL BE MANIPULATED SUFFICIENTLY BY MEANS OF A BULLDOZER, EXCAVATOR, ROCK TONGS, OR OTHER SUITABLE EQUIPMENT TO SECURE A REASONABLY REGULAR SURFACE AND MASS STABILITY. D. RIPRAP PROTECTION SHALL BE PLACED TO ITS FULL COURSE THICKNESS AT ONE OPERATION AND IN SUCH MANNER AS TO AVOID DAMAGING THE FILTER CLOTH OR DISPLACING THE UNDERLYING MATERIAL. PLACING OF RIPRAP PROTECTION IN LAYERS OR BY DUMPING INTO CHUTES OF

THERE WILL BE NO LARGE ACCUMULATION OR AREA COMPOSED MAINLY OF EITHER THE LARGER OR SMALL SIZES OF STONE. E. UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. THE RIPRAP PROTECTION SHALL BE PLACED IN CONJUNCTION WITH THE CONSTRUCTION OF THE EMBANKMENT WITH ONLY SUFFICIENT LAG IN CONSTRUCTION OF THE RIPRAP PROTECTION AS MAY BE NECESSARY TO PLACE GEOTEXTILE

BY SIMILAR METHODS LIKELY TO CAUSE SEGREGATION WILL NOT BE PERMITTED. ALL RIPRAP SHALL BE SO PLACED AND DISTRIBUTED THAT

F. THE CONTRACTOR SHALL PROVIDE A LEVEL, COMPACT AREA OF SUFFICIENT SIZE TO DUMP AND SORT TYPICAL LOADS OF RIPRAP AT AN APPROVED LOCATION; AND SHALL DUMP LOADS, AS SPECIFIED, IN THIS AREA; AND SHALL ASSIST THE ENGINEER AS NEEDED TO SORT AND MEASURE THE STONES FOR THE PURPOSE OF DETERMINING IF THE RIPRAP IS WITHIN SPECIFICATIONS. MECHANICAL EQUIPMENT AS NEEDED TO ASSIST IN THIS SORTING SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.

Pollinator Value (0-5)

PERMANENT SEED MIX

The Bee & Butterfly Habitat Fund Tennessee Solar - Array Area Seed Mix

FABRIC AND TO PREVENT MIXTURE OF EMBANKMENT AND RIPRAP MATERIAL.

Scientific Name

PLS lbs
per acre

PLS lbs
per acre

Seeds per sq ft
% of Mixture
Period
Period
Value o or White Clover Vhite Clover - Durana Wildflower/Forb/Legume Total: 9.250 136.931 32.06% Total Mixture: 29.490 427.131 100.00%

22" Vegetative Height Restriction

Bloom Period Wildflowers Used in Mixture Rate of Mix Bid Cost Per Acre: Date of Bid Bid Expiration:

The Pollinator Value Score is determined based on a combination of factors that include: ollen and/or nectar value of the plant species. yartied pient species or seasonal and pelaste in polinication security mixtures.

State of Program research results of pollinator pollen analysis.

Interest pient of the plant species.

Interest pient pie Pollinator Library tool: https://www.npwrc.usgs.gov/pollinator/home pregional Revegetation Application tool: http://www.nativerevegetati and beekeeping reference materials that list the polli ervations of floral resource use by pollinator species.

TEMPORARY SEED MIX

Rate (lb/acre) Seeding date: ... Above 2500 feet: Feb. 15 - May 15 Below 2500 feet: Feb. 1- May 1 Dec. 1 - Apr. 15 Soil amendments Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer. Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately

following erosion or other damage

following erosion or other damage

Figure 7.8-1 Temporary Seeding Recommendation for Late Winter and Early Spring Rate (lb/acre) Seeding dates May 15 - Aug. 15 Middle .. West Apr. 15 - Aug. 15 Soil amendments Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer. Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring

Figure 7.8-2 Temporary Seeding Recommendation for Summer

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately

Rate (lb/acre) Winter wheat Seeding dates Aug 15 - Dec 15 Middle . . Aug. 15 – Dec 30 . Aug. 15 - Dec 30 Soil amendments Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural imestone and 750 lb/acre 10-10-10 fertilizer. Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage. If necessary to extend temporary cover beyond June 15, overseed with 50 lb/ac crimson clover in late February or early March.

Figure 7.8-3 Temporary Seeding Recommendations for Fall

USED PER TEMPORARY SEEDING RECOMMENDATIONS.

NOTE: CONTRACTOR TO SUBMIT SUBMITTALS AS OUTLINED IN THE SEEDING, SODDING AND LANDSCAPING SPECIFICATIONS SECTION FOR ALL SEED MIXES

31 37 00 STONE REVETMENT (RIP RAP) SPECIFICATIONS 32 92 00 SEEDING, SODDING, AND LANDSCAPING SPECIFICATIONS

PART 1 – GENERAL

1.1 SUMMARY

A. SECTION INCLUDES: 1. SEEDING, SODDING AND LANDSCAPE PLANTING:

a. SOIL PREPARATION.

b. SEEDING AND SEED MIXES c. SODDING.

d. PLANTS AND PLANTING. e. MAINTENANCE OF NEW AND TRANSPLANTED MATERIALS.

f. PRUNING AND REPAIRING EXISTING TREES.

g. REPLACEMENT OF DEAD OR IMPAIRED MATERIALS AT THE END OF THE FIRST GROWING SEASON.

B. RELATED SPECIFICATION SECTIONS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: 1. 31 11 00 CLEARING AND GRUBBING

2. 31 23 00 EARTHWORK AND WATER SYSTEMS 3. 31 25 00 SOIL EROSION AND SEDIMENT CONTROL

4. 31 37 00 STONE REVETMENT 5. 32 13 10 ROADWAY

6. 32 31 13 AGRIVOLTAIC FENCE, CHAIN LINK FENCE, AND GATES 1.2 QUALITY ASSURANCE

A. REFERENCED STANDARDS:

1. AMERICAN NURSERY AND LANDSCAPE ASSOCIATION/AMERICAN NATIONAL STANDARDS INSTITUTE (ANLA/ANSI):

a. Z60.1, AMERICAN STANDARD FOR NURSERY STOCK.

2. AOAC INTERNATIONAL (AOAC). ASTM INTERNATIONAL (ASTM):

a. D2028, STANDARD SPECIFICATION FOR CUTBACK ASPHALT (RAPID-CURING TYPE). b. UNITED STATES DEPARTMENT OF AGRICULTURE (USDA): FEDERAL SEED ACT.

B. QUALITY CONTROL:

 FERTILIZER: a. IF SR EPC DETERMINES FERTILIZER AND/OR LIME REQUIRES SAMPLING AND TESTING TO VERIFY QUALITY, TESTING WILL BE DONE AT

CONTRACTOR'S EXPENSE, IN ACCORDANCE WITH CURRENT METHODS OF THE AOAC. b. UPON COMPLETION OF PROJECT, A FINAL CHECK OF TOTAL QUANTITIES OF FERTILIZER AND/OR LIME USED WILL BE MADE AGAINST TOTAL

c. IF MINIMUM RATES OF APPLICATION HAVE NOT BEEN MET, CONTRACTOR WILL BE REQUIRED TO DISTRIBUTE ADDITIONAL QUANTITIES TO MAKE UP MINIMUM APPLICATION SPECIFIED. C. QUALIFICATIONS:

1. PRUNING WORK TO BE PERFORMED BY A LICENSED ARBORIST.

1.3 SUBMITTALS A. SHOP DRAWINGS:

1. PRODUCT TECHNICAL DATA INCLUDING:

a. ACKNOWLEDGEMENT THAT PRODUCTS SUBMITTED MEET REQUIREMENTS OF STANDARDS REFERENCED.

b. MANUFACTURER'S INSTALLATION INSTRUCTIONS.

c. SIGNED COPIES OF VENDOR'S STATEMENT FOR SEED MIXTURE REQUIRED, STATING BOTANICAL AND COMMON NAME, PLACE OF ORIGIN, STRAIN, PERCENTAGE OF PURITY, PERCENTAGE OF GERMINATION, AND AMOUNT OF PURE LIVE SEED (PLS) PER BAG.

d. TYPE OF HERBICIDE TO BE USED DURING FIRST GROWING SEASON TO CONTAIN ANNUAL WEEDS AND APPLICATION RATE. e. SOURCE AND LOCATION OF SOD, PLANTS, AND PLANT MATERIAL.

2. CERTIFICATION THAT EACH CONTAINER OF SEED DELIVERED WILL BE LABELED IN ACCORDANCE WITH FEDERAL AND STATE SEED LAWS AND EQUALS OR EXCEEDS SPECIFICATION REQUIREMENTS. B. MISCELLANEOUS SUBMITTALS:

1. COPIES OF INVOICES FOR FERTILIZER USED ON PROJECT SHOWING GRADE FURNISHED, ALONG WITH CERTIFICATION OF QUALITY AND WARRANTY.

2. SEEDING PLAN a. INCLUDING TEMPORARY SEED MIX, PERMANENT SEED MIX, WITH ASSOCIATED SEEDING RATES FOR SR EPC APPROVAL

b. SUBCONTRACTOR LIST FOR SR EPC APPROVAL (IF NOT CONTRACTOR PERFORMED SERVICE)

a. FOR LANDSCAPING INSTALLATIONS (SCREENING TREES AND SHRUBS) FOR SR EPC APPROVAL 1.4 DELIVERY, STORAGE, AND HANDLING

A. FURNISH SEED IN SEALED STANDARD CONTAINERS LABELED WITH PRODUCER'S NAME AND SEED ANALYSIS. 1. REMOVE FROM THE SITE SEED WHICH HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT.

B. FURNISH FERTILIZER UNIFORM IN COMPOSITION. FREE FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT, DELIVERED TO SITE IN BAGS OR OTHER CONTAINERS, EACH FULLY LABELED AND BEARING THE NAME, AND WARRANTY OF THE PRODUCER.

PART 2 - PRODUCTS

2.1 MATERIALS A. SEED QUALITY

1. FRESH, CLEAN, NEW-CROP SEED LABELED IN ACCORDANCE WITH USDA RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT IN EFFECT ON

2. PROVIDE SEED OF SPECIES, PROPORTIONS, AND MINIMUM PERCENTAGES OF PURITY, GERMINATION AND MAXIMUM PERCENTAGE OF WEED SEED AS

B. SEED MIXTURE: 1. TEMPORARY SEEDING SHALL BE BASED ON SWPPP. SEED MIX SHOULD BE SUBMITTED FOR APPROVAL BY SR EPC PRIOR TO PLANTING. BROWN TOP MILLET IS NOT ACCEPTABLE

2. PERMANENT SEEDING SHALL BE BASED ON OWNER AND/OR SR EPC'S LONG-TERM VEGETATION MANAGEMENT PLANS, IDENTIFIED IN PROJECT RFP. SEED MIX SHOULD BE SUBMITTED FOR APPROVAL BY SR EPC PRIOR TO PLANTING.

C. SOD: VIABLE, DENSE, STRONGLY ROOTED, NOT LESS THAN 2 YEARS OLD. 1. CENTIPEDE GRASS OR MATCH EXISTING TYPE AS REQUIRED.

2. FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES.

3. STRIPS 12 TO 18 IN WIDE. 4. MOW PRIOR TO STRIPPING FROM FIELD.

5. CUT SO 3/4 IN OF SOIL IS FIRMLY ATTACHED TO ROOTS.

6. NOT FROZEN OR DORMANT. D. FERTILIZER AND SOIL AMENDMENTS:

1. COMMERCIAL FERTILIZER MEETING APPLICABLE REQUIREMENTS OF STATE AND FEDERAL LAW.

2. LIMING RATES PER ENGINEER'S RECOMMENDATION BASED ON SOIL SAMPLING

PART 3 - EXECUTION 3.1 SOIL PREPARATION A. GENERAL

1. REPRESENTATIVE SOIL SAMPLES SHALL BE TAKEN AND ANALYZED FOR PROPER SOIL AMENDMENTS. 2. LIMIT PREPARATION TO AREAS WHICH WILL BE PLANTED SOON AFTER.

3. PROVIDE FACILITIES TO PROTECT AND SAFEGUARD ALL PERSONS ON OR ABOUT PREMISES. 4. PROTECT EXISTING TREES DESIGNATED TO REMAIN.

5. VERIFY LOCATION AND EXISTENCE OF ALL UNDERGROUND UTILITIES.

a. TAKE NECESSARY PRECAUTION TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO CONSTRUCTION ACTIVITY. b. REPAIR ALL DAMAGES TO UTILITY ITEMS AT CONTRACTOR'S EXPENSE. 6. WORK TO BE PERFORMED IN COMPLIANCE WITH THESE SPECIFICATIONS UNLESS A LOCAL NURSERY RECOMMENDS OTHERWISE.

3.2 INSTALLATION A. SEEDING

1. PLANT ONLY TEMPORARY AND PERMANENT SEED MIXES APPROVED BY SR EPC 2. EMPLOY SATISFACTORY METHODS OF SOWING USING MECHANICAL POWER-DRIVEN DRILLS, NO-TILL DRILLS, OR SEEDERS; OR MECHANICAL HAND SEEDERS, OR OTHER APPROVED EQUIPMENT.

3. DISTRIBUTE SEED EVENLY OVER ENTIRE AREA AT RATE OF APPLICATION RECOMMENDED PER APPROVED SEED MIX. 4. STOP WORK WHEN WORK EXTENDS BEYOND MOST FAVORABLE PLANTING SEASON FOR SPECIES DESIGNATED, OR WHEN SATISFACTORY RESULTS CANNOT BE OBTAINED BECAUSE OF DROUGHT, HIGH WINDS EXCESSIVE MOISTURE, OR OTHER FACTORS.

a. RESUME WORK ONLY WHEN FAVORABLE CONDITIONS DEVELOP. 5. IF SEED BROADCASTED ON SURFACE, LIGHTLY RAKE SEED INTO SOIL FOLLOWED BY LIGHT ROLLING OR CULTIPACKING.

6. PROTECT SEEDED AREAS AGAINST TRAFFIC OR OTHER USE BY ERECTING BARRICADES AND PLACING WARNING SIGNS. 7. HYDROMULCH/HYDROSEED SLOPES OVER 3:1 TO PROTECT AGAINST EROSION. 8. IF HYDROSEEDING IS USED, MACHINERY MUST BE APPROVED, MODERN, PROPERLY EQUIPPED AND OPERATED BY AN EXPERIENCED OPERATOR.

a. SEED AND FERTILIZE AT THE RATE SPECIFIED. b. USE APPROPRIATE SHIELDS TO PROTECT ADJACENT SITE IMPROVEMENTS.

B. SODDING 1. SODDING IS BASED ON JURISDICTION REQUIREMENTS

5. LAY SOD SMOOTH ALIGNING WITH ADJOINING GRASS AREAS.

2. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD.

3. LAY SOD WITHIN 48 HOURS OF BEING CUT AND WITHIN 24 HOURS AFTER TOPSOIL IS PREPARED AND FERTILIZED. 4. LAY SOD TIGHT WITH NO OPEN JOINTS VISIBLE, AND NO OVERLAPPING; STAGGER END JOINTS 12-INCHES MINIMUM. DO NOT STRETCH OR OVERLAP SOD SPECIES.

7. ON SLOPES 6-INCHES PER FOOT OR STEEPER, LAY SOD PERPENDICULAR TO SLOPE AND SECURE EVERY ROW WITH WOODEN PEGS AT A MAXIMUM 2-FEET ON CENTER. WHEN USING 'BIG ROLL," LAY SOD PARALLEL TO SLOPE. DRIVE PEGS FLUSH WITH SOIL PORTION OF SOD. 8. DO NOT PLACE SOD WHEN TEMPERATURE IS LOWER THAN 32 DEGREES F

9. WATER SODDED AREAS IMMEDIATELY AFTER INSTALLATION. SATURATE SOIL TO 4 INCHES.

6. PLACE TOP ELEVATION OF SOD 1/2-INCH BELOW ADJOINING PAVEMENT.

10. CONTRACTOR TO PROVIDE AND PAY FOR ALL WATER AND WILL NOT USE ANY CUSTOMER'S WATER. 11.AFTER SOD AND SOIL HAVE DRIED, ROLL SODDED AREAS TO BOND SOIL AND TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES. ROLL SODDED AREAS WITH A LAWN ROLLER NOT EXCEEDING 120 POUNDS.

3.3 PLANTING TREES, SHRUBS, AND GROUND COVERS

A. WARRANTY:

1. TREES, SHRUBS, AND GROUND COVERS SHALL HAVE A ONE YEAR WARRANTY

1. NOTIFY ENGINEER OF SOURCE OF PLANTS AND PLANT MATERIALS AT LEAST 30 DAYS PRIOR TO PLANTING TO PERMIT ENGINEER'S INSPECTION OF SOURCE QUALIFICATIONS.

C. PREPARATION: 1. HANDLE PLANTS SO THAT ROOTS OR BALLS ARE ADEQUATELY PROTECTED FROM BREAKAGE OF BALLS, FROM SUN OR DRYING WINDS.

a. ENSURE TOPS OR ROOTS OF PLANTS ARE NOT PERMITTED TO DRY OUT.

2. DURING TRANSPORTATION, PROTECT MATERIALS FROM WIND AND SUN TO PREVENT TOPS AND ROOTS FROM DRYING OUT.

3. PROTECT TOPS OF PLANTS FROM DAMAGE.

a. PLANTS WITH DAMAGED TOPS WILL BE REJECTED. 4. FOR PURPOSE OF INSPECTION AND PLANTING IDENTIFICATION, ATTACH DURABLE, LEGIBLE LABELS TO BUNDLE OR CONTAINER OF PLANT MATERIAL

DELIVERED AT THE PLANTING SITE. a. State correct plant name and size of each plant in Weather-Resistant ink on labels.

5. DO NOT PRUNE TREES AND SHRUBS AT NURSERY. 6. PERFORM ALL WORK AS RECOMMENDED BY A LOCAL NURSERY.

D. PLANTING SEASON: 1. PLANT DECIDUOUS SHADE TREES AND SHRUBS ANY TIME THE GROUND IS SUITABLE BETWEEN OCTOBER 15 AND JUNE 1 OR AS DIRECTED BY SR

2. PLANT EVERGREEN MATERIAL BETWEEN SEPTEMBER 1 AND JUNE 1 OR AS DIRECTED BY SR EPC.

3. PLANT GROUND COVERS BETWEEN MARCH 15 TO JUNE 1 OR AS DIRECTED BY SR EPC. 4. IN THE EVENT THE CONTRACTOR IS NOT ABLE TO PLANT DURING THE PLANTING SEASON, AT SR EPC'S DISCRETION, RETAINAGE MAY BE HELD UNTIL THE CONTRACTOR CAN RETURN DURING THE PLANTING SEASON TO COMPLETE THE RESTORATION.

1. INDICATE LOCATIONS OF PLANTS FOR APPROVAL BY ENGINEER BEFORE EXCAVATING PLANT LOCATIONS.

2. IN EVENT UNDERGROUND CONSTRUCTION, UTILITIES, OBSTRUCTIONS, OR ROCK ARE ENCOUNTERED IN EXCAVATION OF PLANTINGS, SECURE

ALTERNATE LOCATIONS FROM ENGINEER. a. MAKE SAID CHANGES WITHOUT ADDITIONAL COMPENSATION.

b. WHERE TREE LOCATIONS FALL UNDER EXISTING OVERHEAD WIRES, OR CROWD EXISTING TREES, ADJUST LOCATIONS AS DIRECTED BY ENGINEER. 3. EXCAVATE PITS AND BEDS AS NECESSARY AND IN ACCORDANCE WITH ANLA/ANSI Z60.1.

4. TREE AND SHRUB PITS TO BE CIRCULAR IN SHAPE WITH VERTICAL SIDES AT LEAST 1 FT GREATER IN DIAMETER THAN BALL DIAMETER.

b. EXCAVATION IS UNCLASSIFIED, EXCAVATE ALL MATERIALS WITHOUT ADDITIONAL COST.

a. PIT TO BE OF SUFFICIENT DEPTH TO PROVIDE 6 IN OF PLANTING SOIL UNDER BALL WHEN SET TO NATURAL GRADE.

5. SHRUB AND GROUND COVER BEDS: a. PLANT SHRUBS USED IN MASS PLANTINGS IN INDIVIDUAL HOLES OF REQUIRED SIZE.

b. STRIP ALL SOD FROM AMONG MASS PLANTINGS. c. FOR GROUND COVER BEDS, REMOVE SOD FROM WITHIN LIMITS OF BED.

RELATIONSHIP TO FINISHED GRADE AS THEY DID IN THEIR FORMER SETTING.

d. ADD SOIL AMENDMENTS AS SPECIFIED AND MIX OR ROTOTILL WITH EXISTING TOPSOIL TO A DEPTH OF 6 IN. 6. SET PLANTS STRAIGHT OR PLUMB, IN LOCATIONS WHEN INDICATED AND AT SUCH LEVEL THAT AFTER SETTLEMENT THEY BEAR SAME

 a. CAREFULLY TAMP PLANTING SOIL UNDER AND AROUND BASE OF BALLS TO PREVENT VOIDS. b. REMOVE BURLAP, ROPE AND WIRES FROM TOP OF BALLS.

c. DO NOT REMOVE BURLAP FROM SIDES AND BOTTOM OF BALLS.

a. LOOSEN BOTTOM OF PITS PRIOR TO PLANTING.

7. BACKFILL PLANTS WITH PLANTING SOIL. a. TAMP TO 1/2 DEPTH OF PIT AND THOROUGHLY WATER AND PUDDLE BEFORE BRINGING BACKFILL TO PROPER GRADE.

b. AFTER PLANTING HAS BEEN COMPLETED, FLOOD PIT AGAIN SO THAT BACKFILL IS THOROUGHLY SATURATED AND SETTLED. 8. AFTER PLANTING IS COMPLETE, FORM A LEVEL SAUCER 3 IN HIGH AROUND EACH TREE EXTENDING TO LIMIT OF PLANT PIT FOR WATERING 9. MULCH PLANT PIT AFTER SAUCER HAS BEEN SHAPED.

c. IF MULCHING IS DELAYED AND SOIL HAS DRIED OUT, WATER PLANTS THOROUGHLY BEFORE SPREADING MULCH. 10. STAKING: STAKE TREES IMMEDIATELY AFTER PLANTING AS DETAILED ON DRAWINGS OR IN ACCORDANCE WITH NURSERY STANDARDS. 11.WRAP DECIDUOUS TREES 2 IN OR MORE IN CALIPER BY NEATLY OVERLAPPING WRAPPING MATERIAL BETWEEN GROUND LINE AND SECOND

a. Place ties at top and bottom of wrapping material and not more than 12 in apart between top and bottom ties.

b. IN MASS PLANTINGS OF SHRUBS, MULCH ENTIRE AREA UNIFORMLY AMONG SHRUBS TO A DEPTH OF 3 IN.

a. MULCH TO LIMITS OF PIT AND UNIFORMLY OVER GROUND COVER BEDS TO A DEPTH OF 3 IN.

REMOVE DEAD OR DAMAGED BRANCHES. a. THIN DECIDUOUS MATERIAL TO ABOUT TWO-THIRDS OF INITIAL BRANCHING.

3.4 MAINTENANCE AND REPLACEMENT

B. SEEDED OR SODDED AREAS

b. REMOVE ONLY DEAD OR DAMAGED BRANCHES FROM EVERGREENS. 13. WATER PLANTS DURING PLANTING OPERATIONS.

a. WATER EACH PLANT A MINIMUM OF ONCE EACH WEEK UNTIL FINAL ACCEPTANCE. b. APPLY SUFFICIENT WATER TO MOISTEN BACKFILL ABOUT EACH PLANT SO THAT MOISTURE WILL EXTEND INTO THE SURROUNDING SOIL. 14. REMOVE DEAD OR DYING LIMBS, REPAIR AND TREAT WOUNDS, REMOVE LIMBS THAT INTERFERE WITH CONSTRUCTION OR WITH VEHICULAR TRAFFIC AND REPAIR, ROTTED OR DECAYED AREAS SPECIFICALLY NOTED ON DRAWINGS

A. GENERAL: 1. OPERATION & MAINTENANCE (O&M) - IT IS ANTICIPATED THAT A LOW MAINTENANCE FACILITY WILL BE DELIVERED TO THE OWNER AT THE END OF CONSTRUCTION. FOR THE AVOIDANCE OF DOUBT CONTRACTOR SHALL DETAIL THE EXPECTED REGULAR O&M ACTIVITIES AND FREQUENCY INCLUDING INSPECTIONS AND REPAIRS (FOR EXAMPLE CULVERT INSPECTION AND CLEAN OUT, EROSION INSPECTION AND MAINTENANCE, ROAD

2. CONTRACTOR RESPONSIBLE FOR VEGETATION MANAGEMENT OF NO LOWER THAN 3" AND NO HIGHER THAN 18" UNTIL SWPPP NOTICE OF TERMINATION AND SUBSTANTIAL COMPLETION HAVE BEEN ACHIEVED BY MOWING, WEED WHIPPING, AND/OR PROVIDING HERBICIDE APPLICATION (TO BE APPROVED BY SR EPC PRIOR TO USE). 3. CONTRACTOR IS RESPONSIBLE FOR HANDING OVER A CLEAN, FULLY MOWED/STRING TRIMMED SITE, WHICH INCLUDES, BUT IS NOT LIMITED TO,

MOWING/TRIMMING AISLE WAYS, UNDER MODULES, ALONG FENCE LINES AND ROADS, AROUND INVERTER SKIDS AND COMBINER BOXES. 4. CONTRACTOR SHALL PROVIDE AND PAY FOR ALL WATER AND SHALL NOT USE THE PROPERTY OWNER'S WATER SOURCE

5. PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND WATERING EQUIPMENT AS REQUIRED TO CONVEY WATER FROM WATER SOURCES AND TO KEEP PLANTED AREAS UNIFORMLY MOIST AS REQUIRED FOR PROPER GROWTH. 6. PROTECTION OF NEW MATERIALS:

a. PROVIDE BARRICADES, COVERINGS OR OTHER TYPES OF PROTECTION NECESSARY TO PREVENT DAMAGE TO

INSPECTION AND MAINTENANCE, STORMWATER BASIN INSPECTION AND CLEAN OUT AS APPLICABLE)

b. REPAIR AND PAY FOR ALL DAMAGED ITEMS. 7. REPLACE UNACCEPTABLE MATERIALS WITH MATERIALS AND METHODS IDENTICAL TO THE ORIGINAL SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

1. SR EPC AND ENGINEER WILL REVIEW SEEDED OR SODDED LAWN AREA AFTER INSTALLATION FOR INITIAL ACCEPTANCE. a. Vegetation must meet an 80% basal coverage rate of species composition identified in the civil plans in all inverter blocks IN ORDER TO ACHIEVE FINAL COMPLETION. 2. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING, AND

3. LAY OUT TEMPORARY LAWN WATERING SYSTEM AND ARRANGE WATERING SCHEDULE TO AVOID WALKING OVER MUDDY AND NEWLY SEEDED AREAS. a. USE EQUIPMENT AND WATER TO PREVENT PUDDLING AND WATER EROSION AND DISPLACEMENT OF SEED OR MULCH. 4. MOWING, WEED WHIPPING/STRING TRIMMING, HERBICIDE APPLICATION TO OCCUR AS NEEDED TO MAINTAIN SR EPC'S HEIGHT THRESHOLDS a. Time initial and subsequent mowings as required to maintain a height between 3" and 18"

REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, UNIFORM LAWN, FREE OF WEEDS AND ERODED OR BARE AREAS.

b. MOWING, STRING TRIMMING, HERBICIDE APPLICATION TO OCCUR AS NEEDED IN AISLEWAYS, UNDER MODULES, ALONG FENCE LINES, ALONG ROADS, AROUND ALL COMBINER BOXES AND INVERTER SKIDS

c. REPEAT MOWING UNTIL SWPPP NOTICE OF TERMINATION AND SUBSTANTIAL COMPLETION HAVE BEEN ACHIEVED.

d. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED.

EXISTING IMPROVEMENTS INDICATED TO REMAIN.

e. DO NOT MOW WHEN GRASS IS WET. f. DO NOT MOW LOWER THAN 3" g. IF HERBICIDES ARE USED, THEY ARE TO BE SELECTIVE FOR TARGETED CONTROL AND APPROVED BY SR EPC PRIOR TO USE

h. Broad spectrum herbicides are not to be used along fence lines as this leads to fence line erosion issues

5. REMULCH WITH NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS SUFFICIENTLY TO NULLIFY a. ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT. 6. UNACCEPTABLE PLANTINGS ARE THOSE AREAS THAT DO NOT MEET THE QUALITY OF THE SPECIFIED MATERIAL, PRODUCE THE SPECIFIED RESULTS,

OR WERE NOT INSTALLED TO THE SPECIFIED METHODS. 7. REPLANT BARE AREAS USING SAME MATERIALS SPECIFIED. 8. SR EPC AND ENGINEER WILL REVIEW FINAL ACCEPTABILITY OF INSTALLED AREAS AT END OF MAINTENANCE PERIOD.

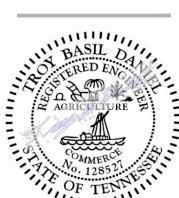
9. MAINTAIN REPAIRED AREAS UNTIL REMAINDER OF MAINTENANCE PERIOD OR APPROVED BY ENGINEER, WHICHEVER IS THE LONGER PERIOD.

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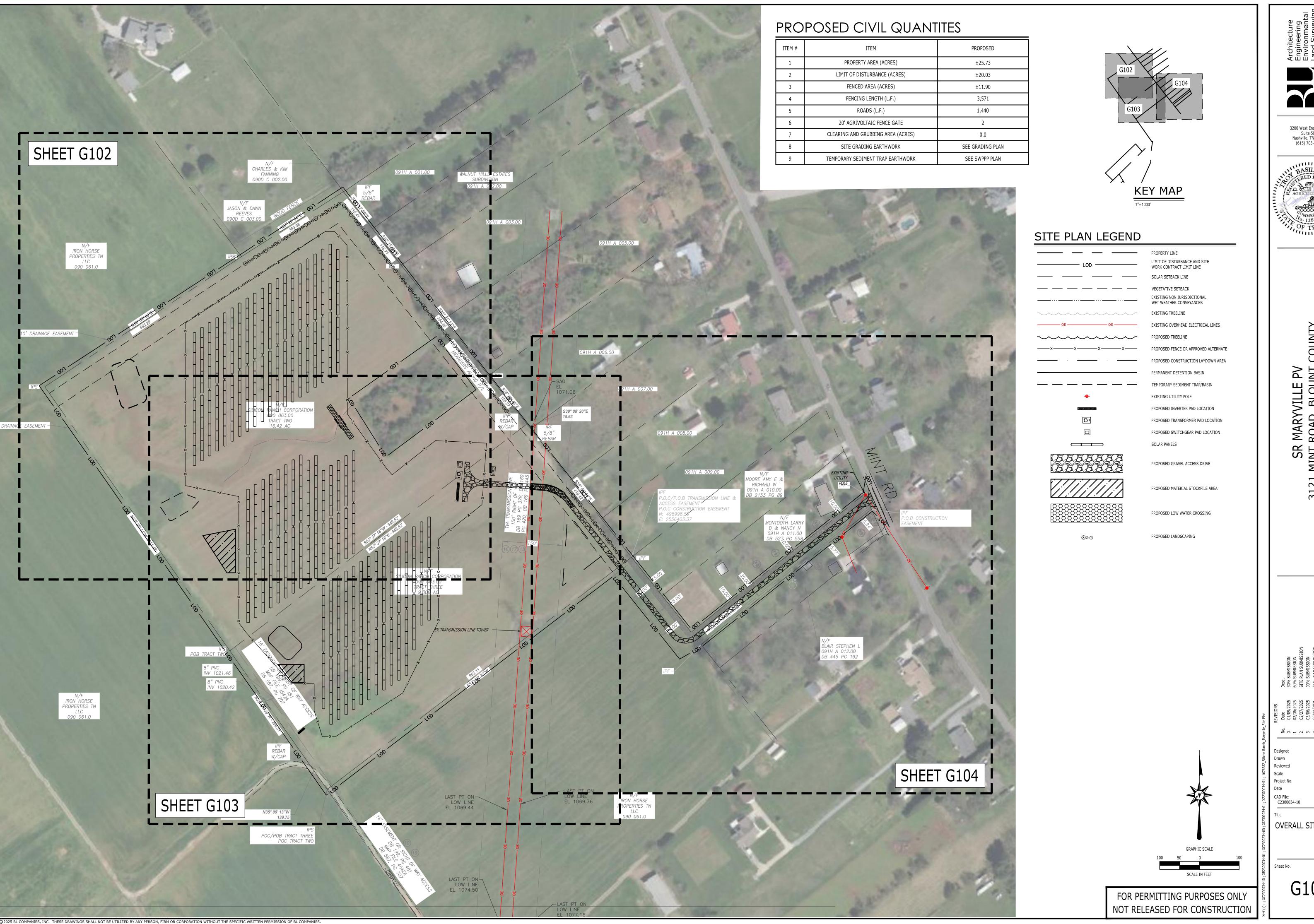
3200 West End Avenue Nashville, TN 37203 (615) 703-2637



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CIVIL NOTES AND





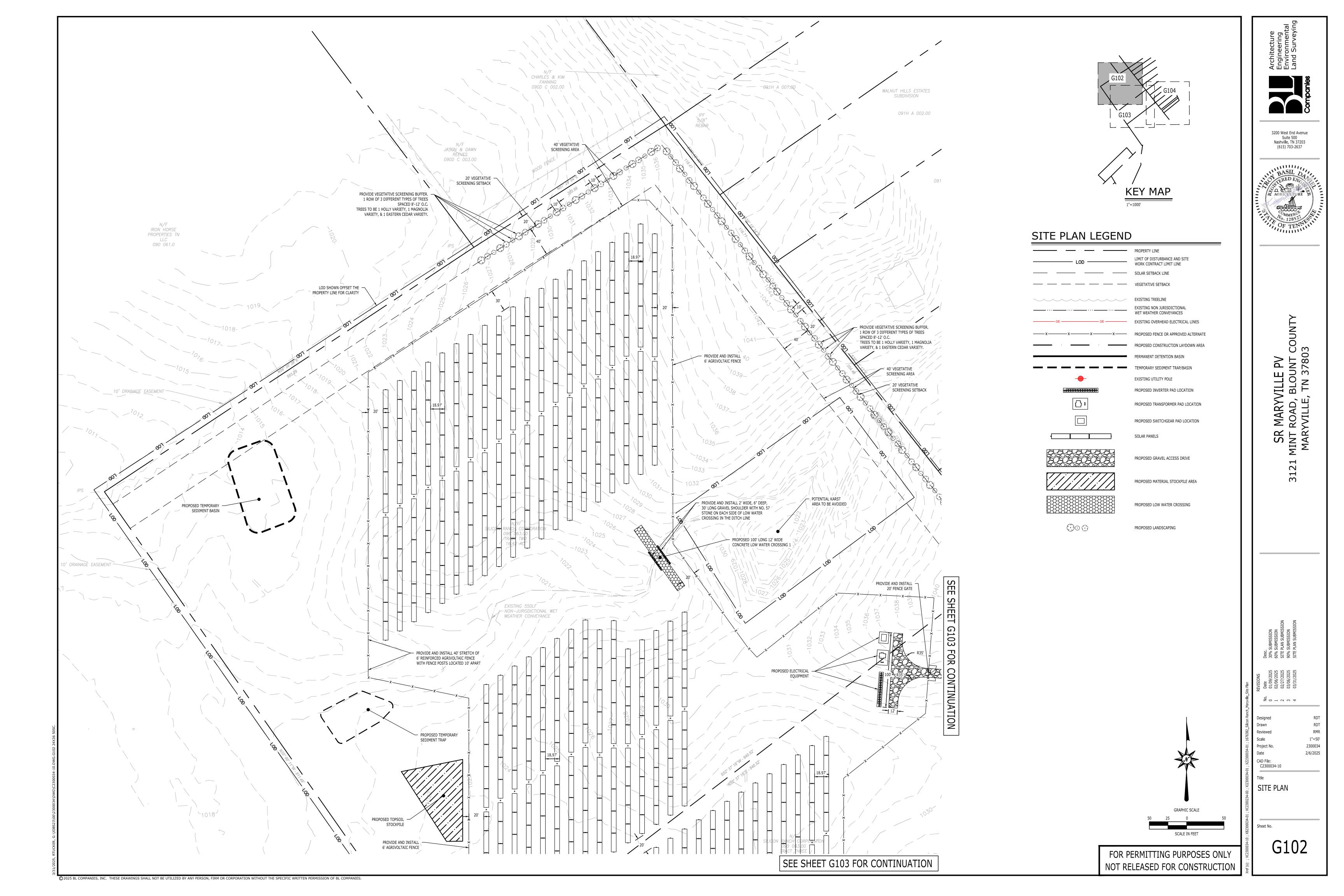
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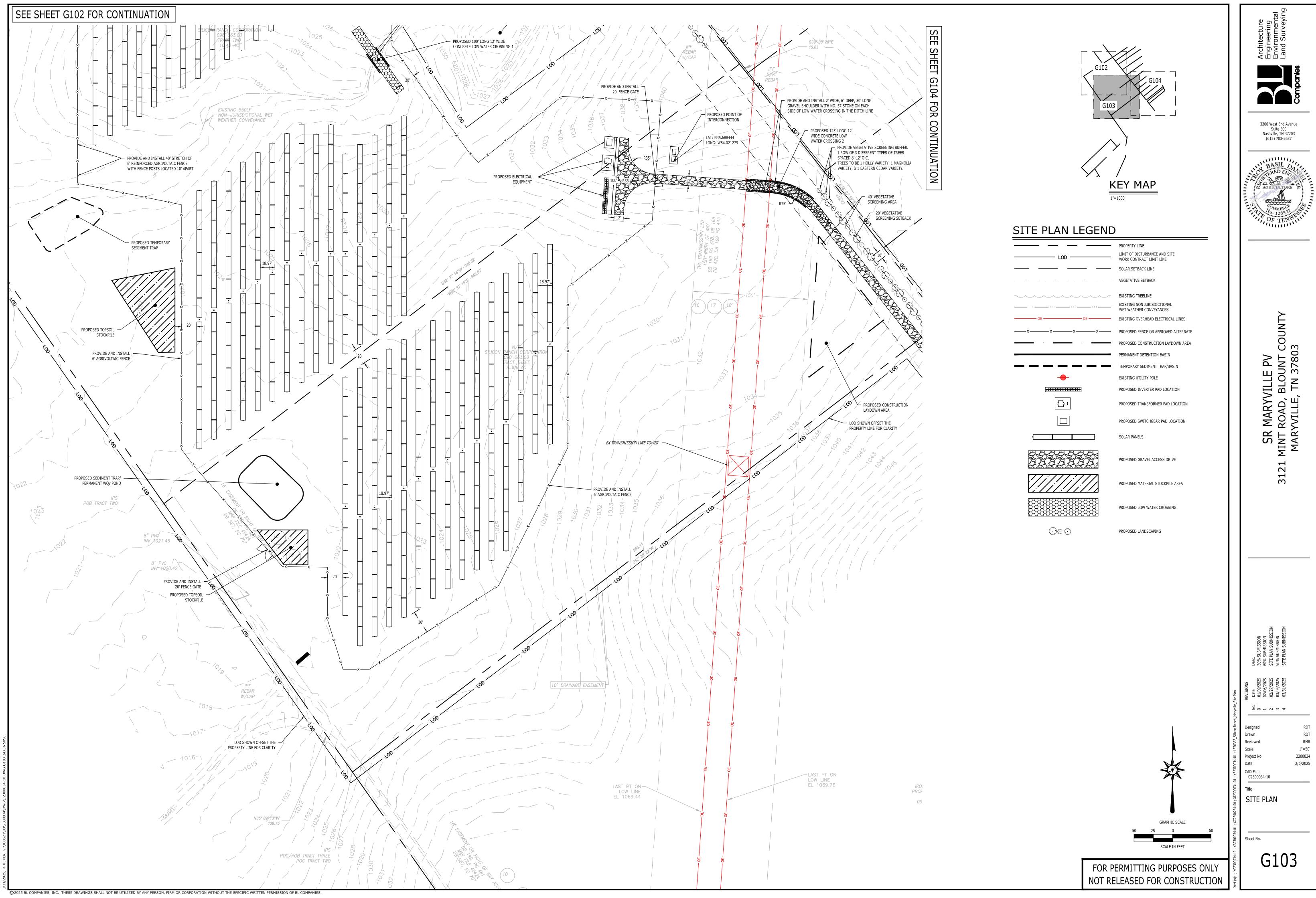


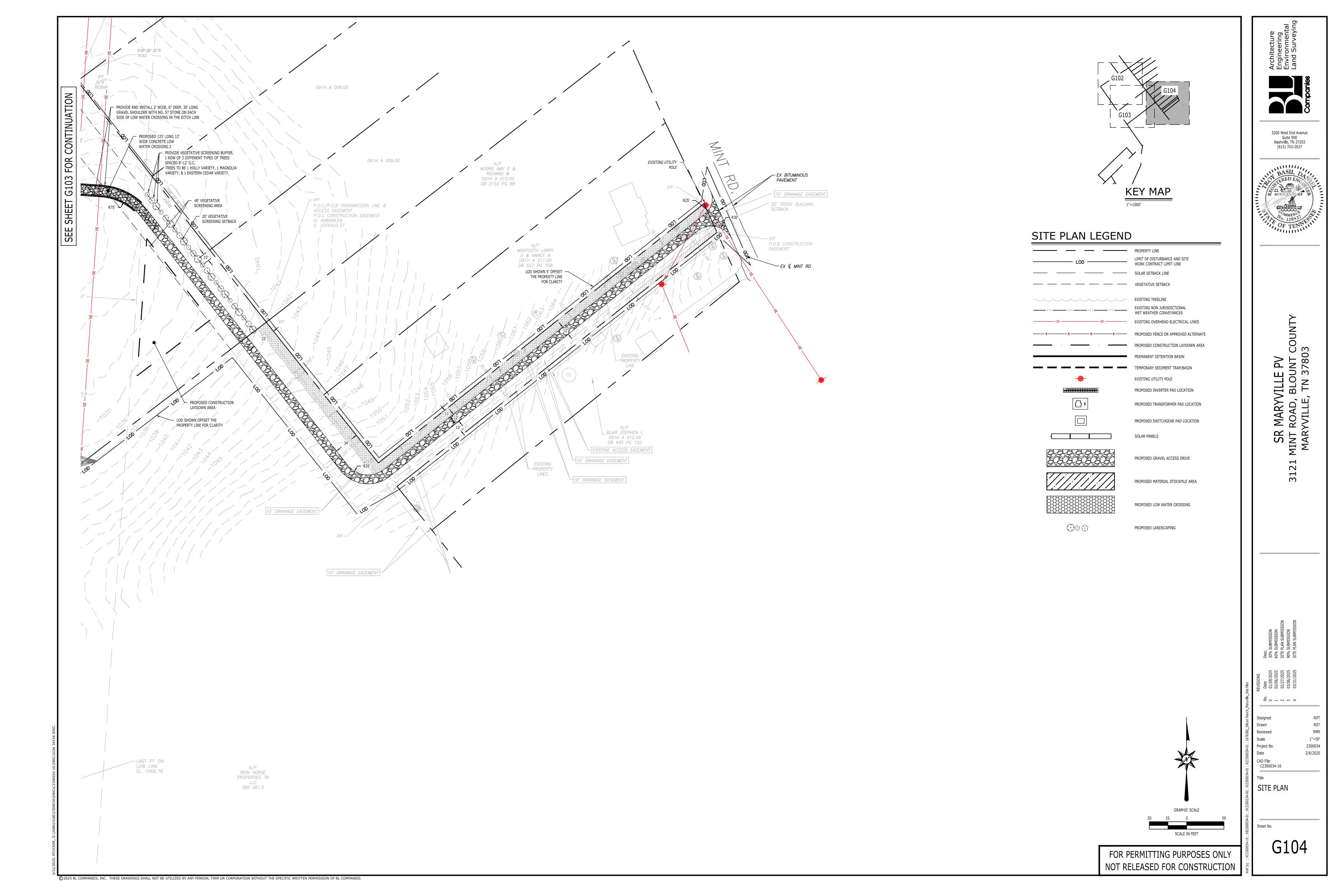
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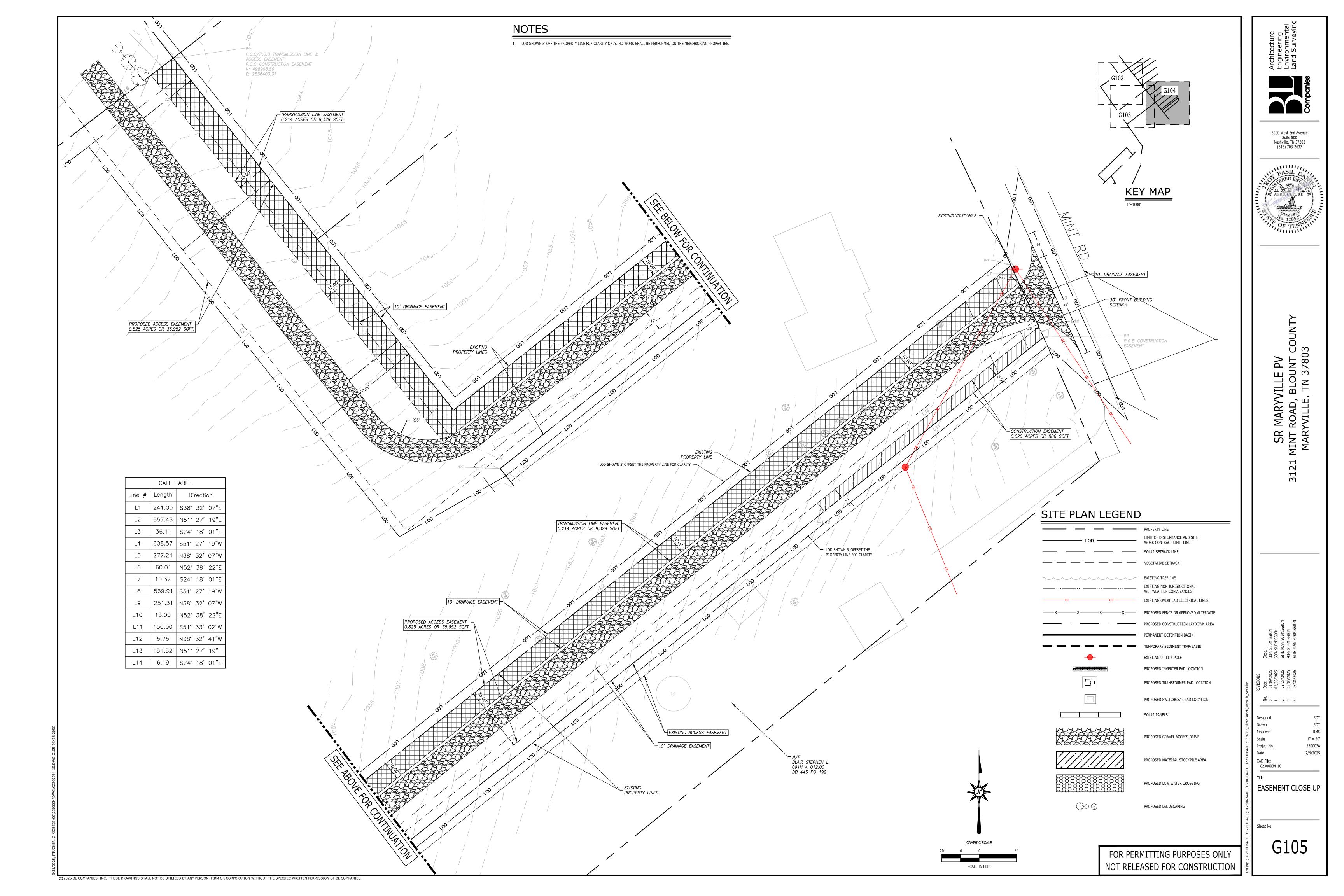
OVERALL SITE PLAN

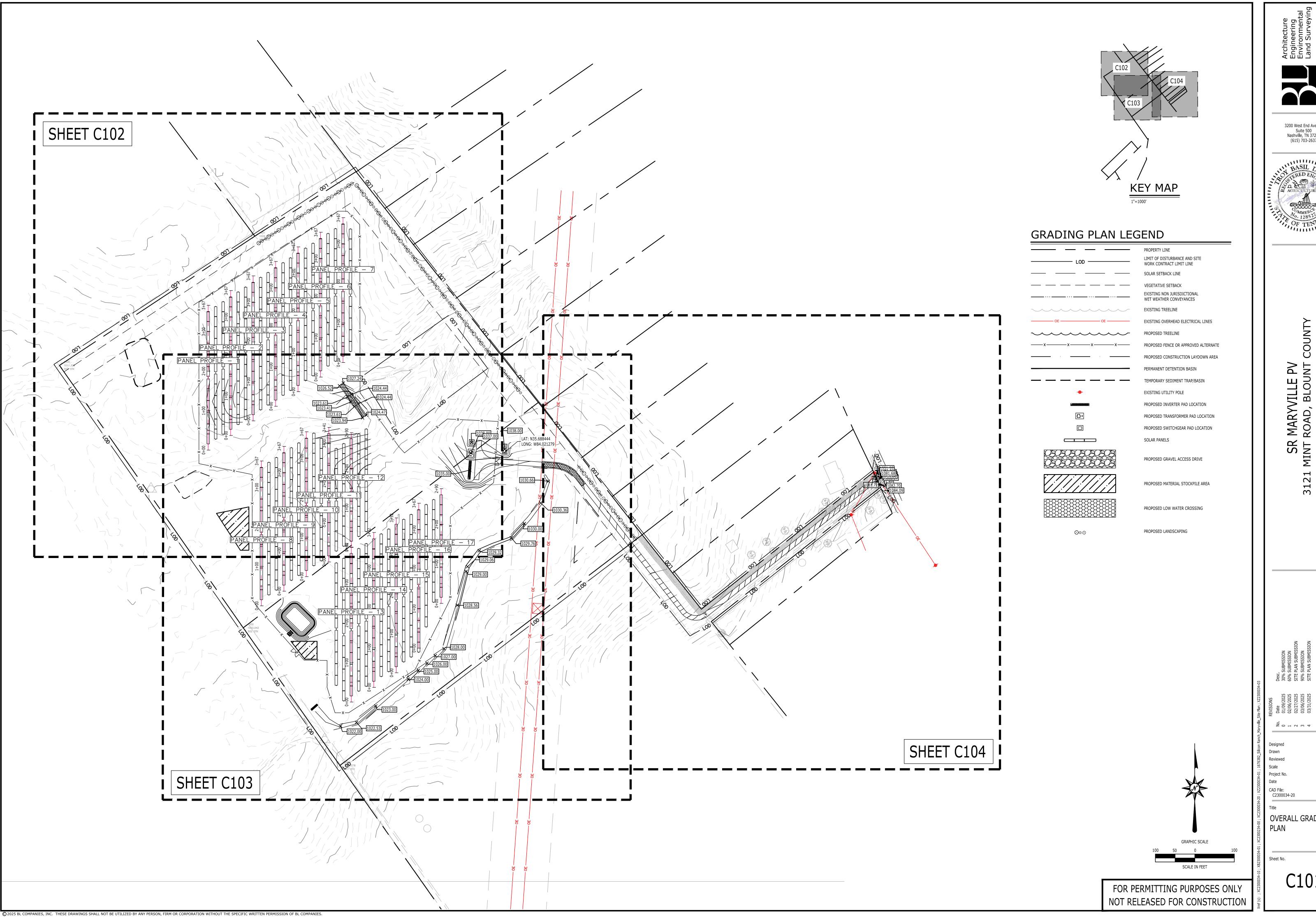
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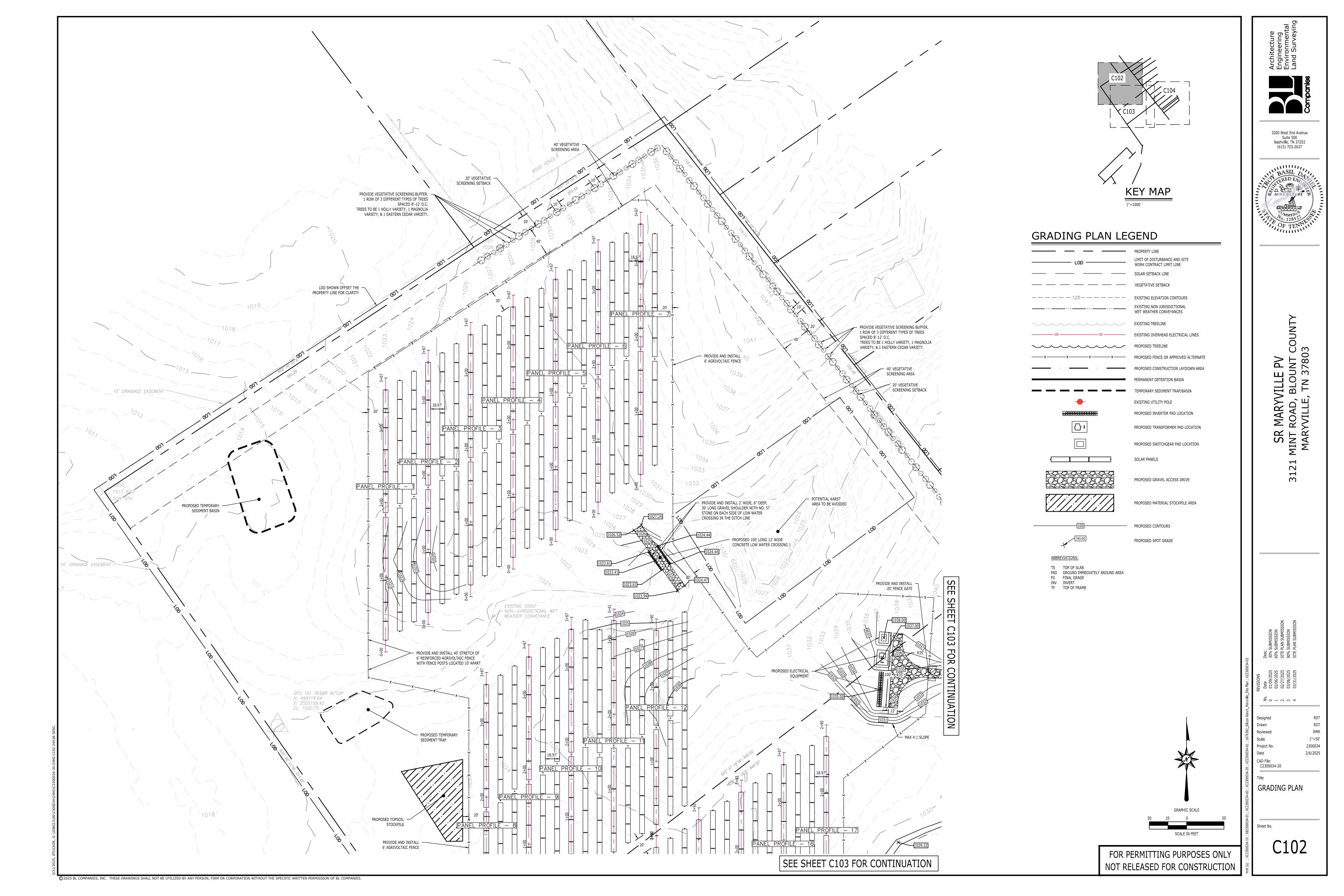
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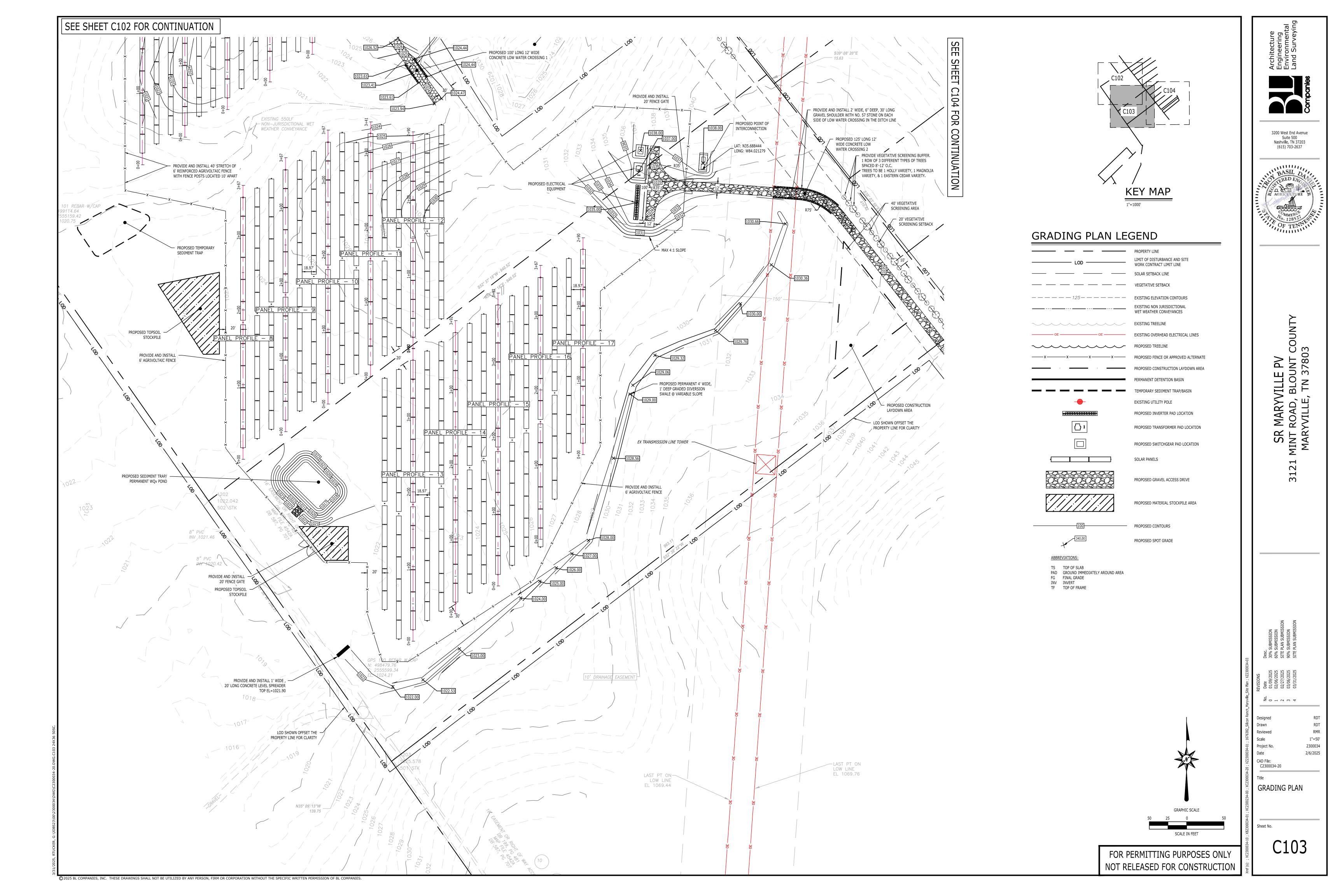


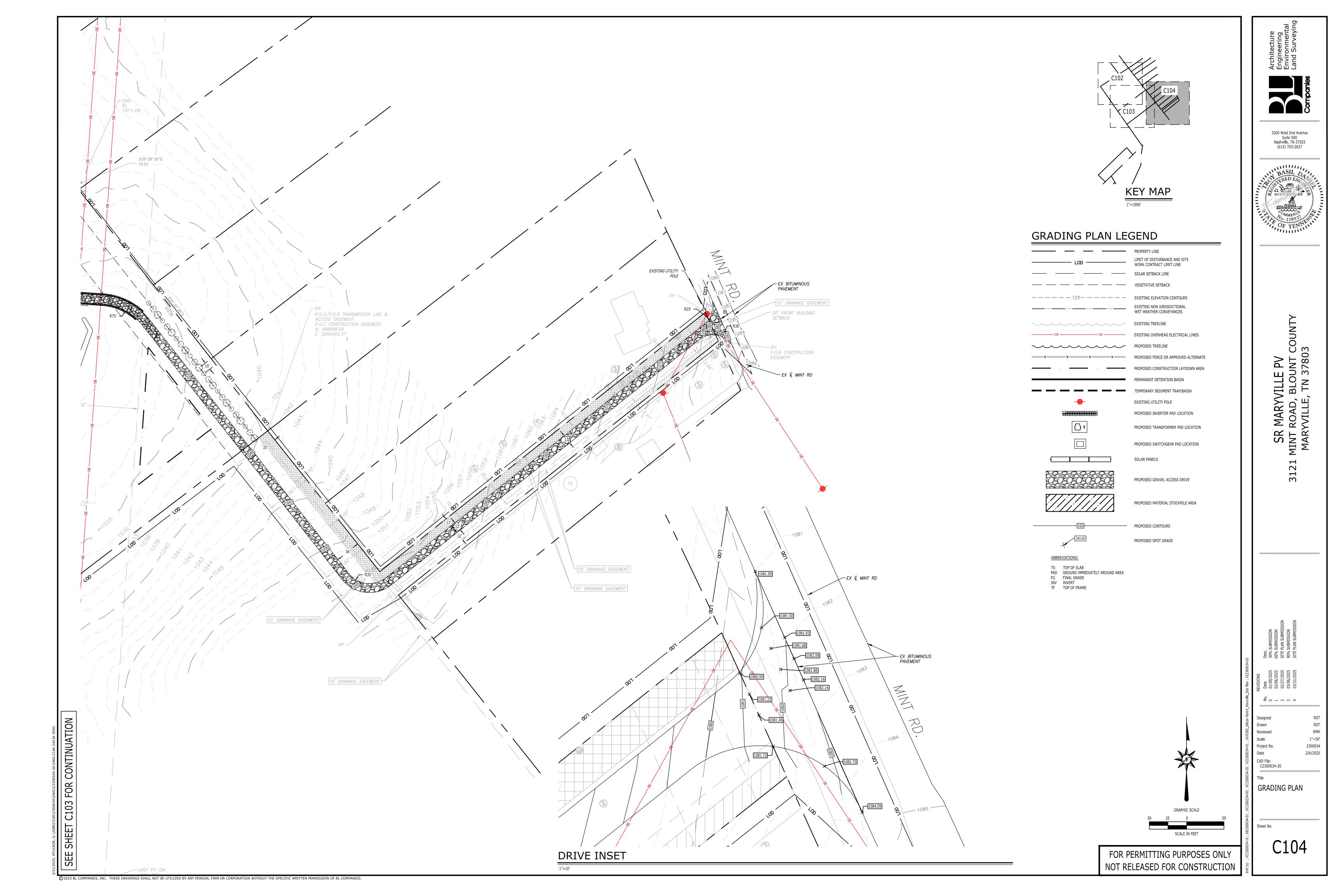
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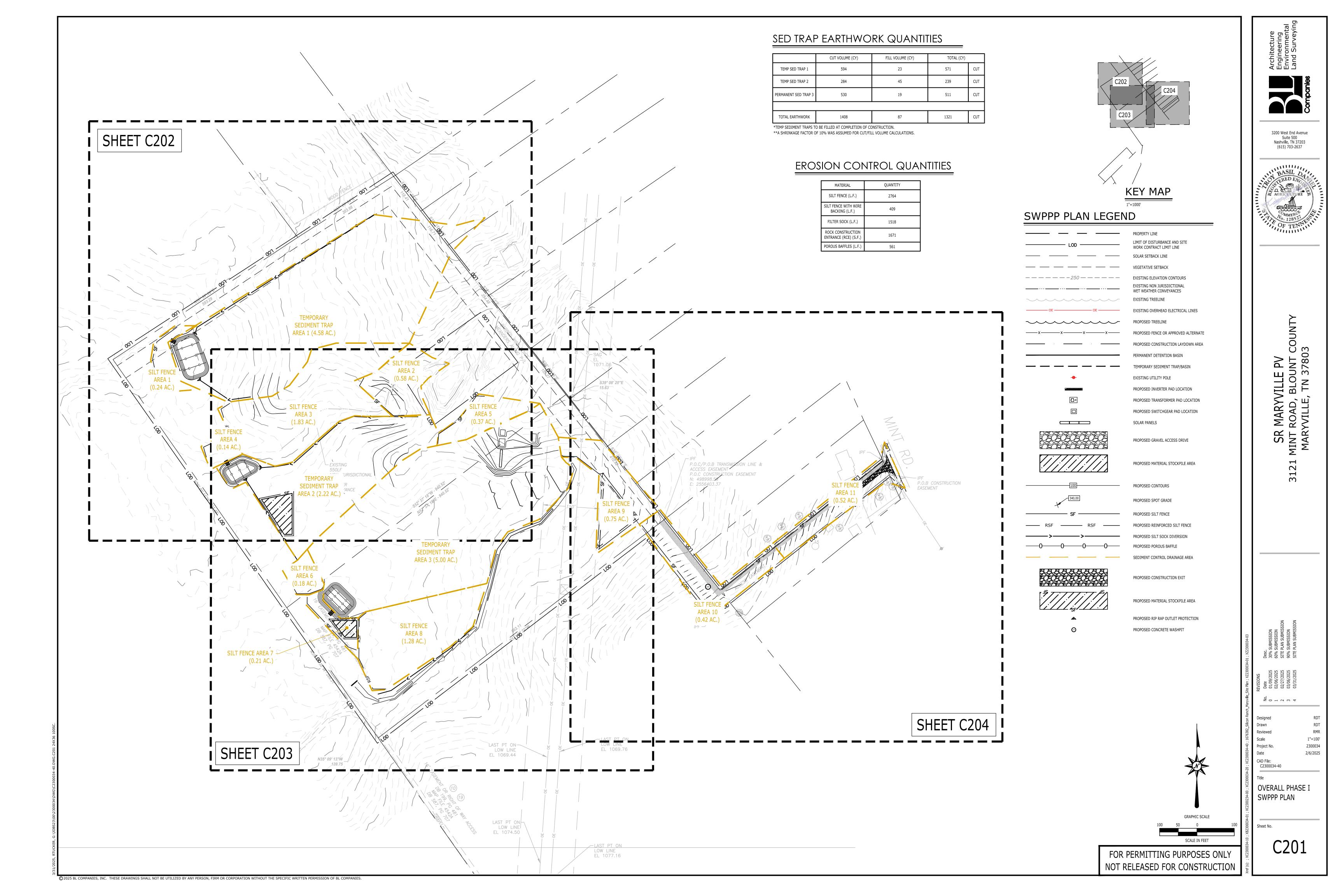
OVERALL GRADING PLAN

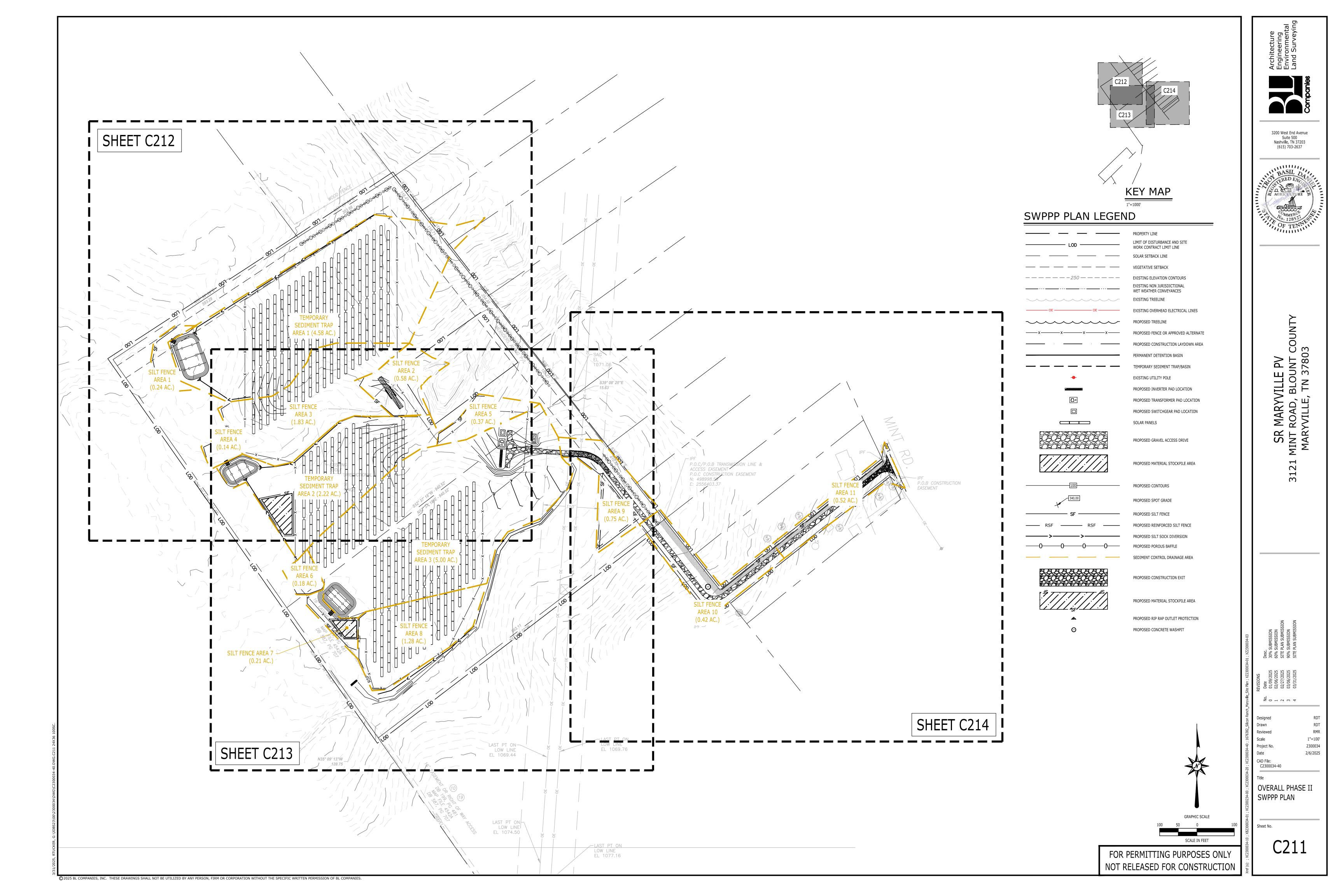
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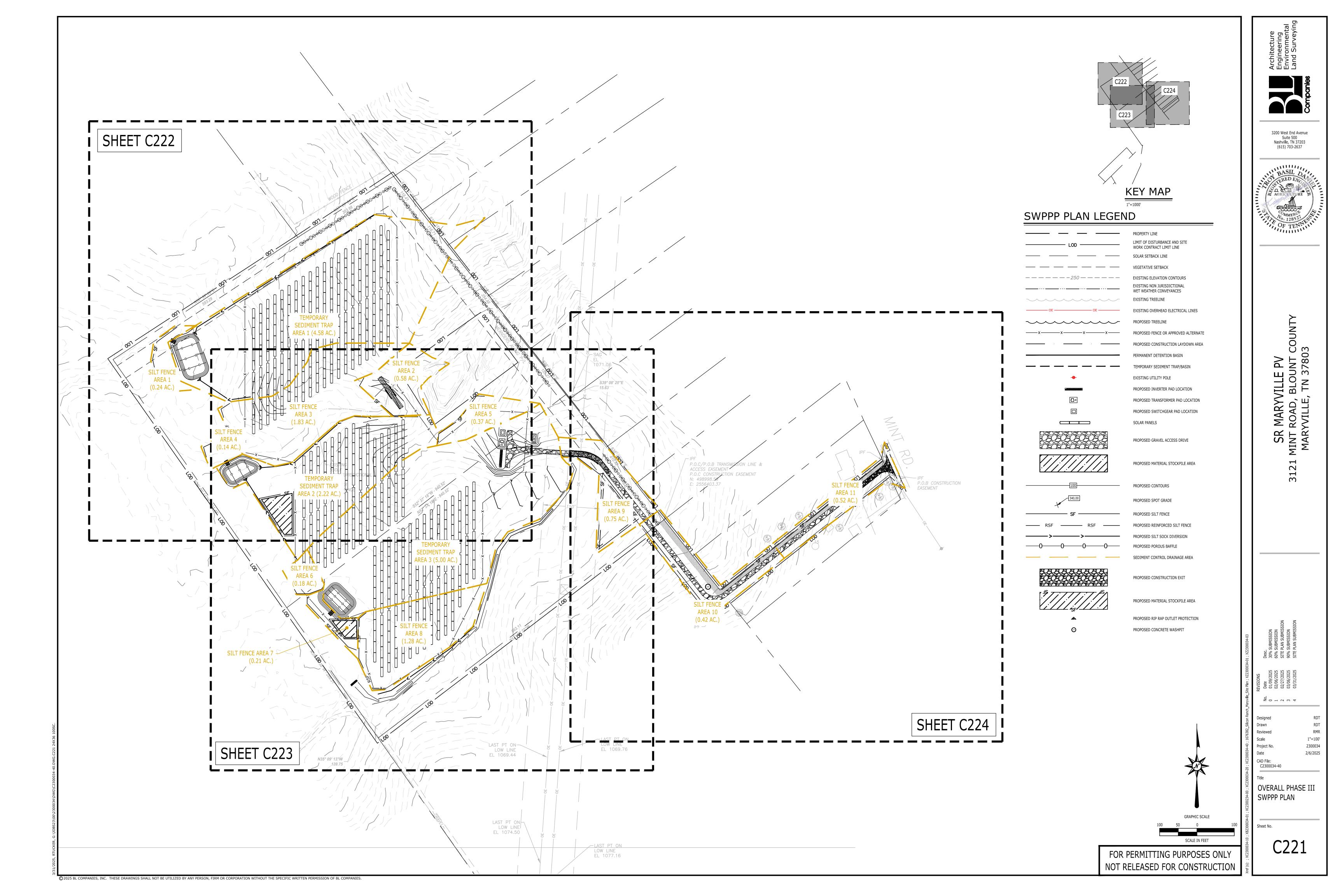












SEDIMENT TRAP CONSTRUCTION SPECIFICATIONS

- 1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER, AND STOCKPILE IT OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL
- 2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 8 INCHES, AND MACHINE COMPACT IT. OVERFILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
- 3. CONSTRUCT THE OUTLET SECTION IN THE EMBANKMENT. PROTECT THE CONNECTION BETWEEN THE RIPRAP AND THE SOIL FROM PIPING BY USING GEOTEXTILE FABRIC BETWEEN THE RIP RAP AND SOIL. PLACE THE FILTER FABRIC BETWEEN THE SOIL AND RIP RAP. EXTEND THE FABRIC ACROSS THE SPILLWAY FOUNDATION AND SIDES TO THE TOP OF THE DAM.
- 4. CLEAR THE SEDIMENT TRAP STORAGE ZONE AREA BELOW THE ELEVATION OF THE CREST OF THE SPILLWAY TO FACILITATE CLEANOUT.
- 5. ALL CUT AND FILL SLOPES MUST BE 2:1 OR FLATTER.
- 6. ENSURE THAT THE STONE SECTION OF THE EMBANKMENT HAS A MINIMUM BOTTOM WIDTH OF 3 FEET AND MAXIMUM SIDE SLOPES OF 1:1 THAT EXTEND TO
- CONSTRUCT THE MINIMUM FINISHED STONE SPILLWAY BOTTOM WIDTH, AS SHOWN ON THE PLANS, WITH 2:1 SIDE SLOPES EXTENDING TO THE TOP OF THE OVER FILLED EMBANKMENT. THE WEIR MUST BE LEVEL AND CONSTRUCTED TO THE WIDTH NOTED ON THE PLANS.
- MATERIAL USED IN THE STONE SECTION SHOULD BE A WELL GRADED MIXTURE OF STONE WITH A D50 SIZE OF 9 INCHES (CLASS A-1). THE STONE CAN BE MACHINE PLACED AND THE SMALLER STONES WORKED INTO THE VOIDS OF THE LARGER STONES.
- 9. RUNOFF SHOULD BE DISCHARGED INTO THE TRAP IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT RUNOFF TO THE UPPER END OF THE STORAGE AREA TO IMPROVE TRAP EFFICIENCY. AVOID DISCHARGING RUNOFF OVER UNPROTECTED STEEP SIDE SLOPES.
- 10. ENSURE THAT THE STONE SPILLWAY OUTLET SECTION EXTENDS DOWNSTREAM PAST THE TOE OF THE EMBANKMENT UNTIL STABLE CONDITIONS ARE REACHED AND OUTLET VELOCITY IS ACCEPTABLE FOR THE RECEIVING SYSTEM. KEEP THE EDGES OF THE STONE SECTION FLUSH WITH THE SURROUNDING
- 11. STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION.

STANDARD E&S NOTES

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SWPPP PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THESE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE SWPPP PLAN PREPARER, AND A REPRÉSENTATIVE FROM THE LOCAL SOILS CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
 - 3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE TENNESSEE ONE CALL SYSTEM INC SHALL BE NOTIFIED FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
 - 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL SOILS CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
 - 5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE.
- GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE SWPPP BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE REEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS SWPPP PLAN
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- 10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH TDEC REGULATIONS.
- 11. OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN SWPPP PLAN APPROVED BY THE LOCAL SOIL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 12. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 13. UNTIL THE SITE IS STABILIZED, ALL SWPPP BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY, IF THE SWPPP BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 14. A LOG SHOWING DATES THAT THE BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 15. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- 16. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- 17. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES 6 TO 12 INCHES ON COMPACTED SOILS PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- 18. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 19. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS, PER THE GEOTECH REPORT.
- 20. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 21. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 22. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 23. THE INTERCEPTION OF SPRINGS AND/OR GROUNDWATER IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD. TDEC SHOULD BE CONTACTED AND ADDITIONAL PERMITTING FOR AN AQUATIC RESOURCE ALTERATION PERMIT WILL BE REQUIRED.
- 24. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- 25. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- 26. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING,
- 27. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 28. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL SOIL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE SWPPP BMPs.
- 29. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL SOIL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- 31. FAILURE TO CORRECTLY INSTALL BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY
- 32. SITES WITH OVER 50 ACRES OF DISTURBANCE REQUIRE QUARTERLY SITE ASSESSMENTS.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- 1. CONTACT TENNESSEE811 SEVENTY-TWO (72) HOURS BEFORE COMMENCEMENT OF WORK AT (800)-351-1111 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- 2. CONTACT COUNTY SOILS CONSERVATION DISTRICT AGENT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT.
- 3. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE COUNTY SOILS CONSERVATION DISTRICT AGENT PRIOR TO THE START OF WORK ON THE SITE. INSTALL TREE PROTECTION AND PERIMETER SILT FENCE. PHASE 1 (INITIAL PHASE) - EROSION & SEDIMENT CONTROL SCHEDULE
- STAKE OUT CLEARING LIMITS, BUFFERS, ETC. CONDUCT PRE-CONSTRUCTION MEETING WITH EROSION CONTROL INSPECTOR.
- INSTALL CONSTRUCTION EXITS AND PERIMETER SILT FENCE. INSTALL SEDIMENT TRAPS/BASINS VOLUMES AND OUTLET WITH DIVERSION SWALE AND WATTLES BEFORE CLEARING OR GRADING OCCURS.
- 5. PROVIDE TEMPORARY GRASSING/MULCHING @ 14-DAY INTERVALS
- PHASE 2 (INTERIM PHASE) EROSION & SEDIMENT CONTROL SCHEDULE
- 1. BEGIN SITE GRADING AND CONSTRUCTION FOR DRIVES AND SOLAR RACKS.
- 2. INSTALL UTILITIES (STORM, ELECTRIC AND TELECOMMUNICATIONS) AND ALL APPROPRIATE TEMPORARY INLET/OUTLET PROTECTION.
- 3. REMOVE SEDIMENTS ACCUMULATING IN TRAPS WHEN THEY REACH ELEVATION OF CLEANOUT MARKER.
- 4. MAINTAIN SILT FENCE AND INLET PROTECTION PER THIS PLAN AND NOTE 13 ABOVE AS THE PROJECT PROGRESSES. 5. CLEAN ALL STORM AND TEMPORARY SEDIMENT TRAPS.
- 6. INSTALL TEMPORARY STABILIZATION AND SEEDING NECESSARY IMMEDIATELY WHEN SITE (OR PORTIONS OF SITE) IS DORMANT.

PHASE 3 (FINAL PHASE) - EROSION & SEDIMENT CONTROL SCHEDULE

- 1. FINISH SITE GRADING AND SITE CONSTRUCTION FOR DRIVES, SOLAR RACKS, AND FENCING.
- 2. INSTALL UTILITIES (STORM, ELECTRIC AND TELECOMMUNICATIONS) AND ALL APPROPRIATE TEMPORARY INLET/OUTLET PROTECTION.
- 3. REMOVE SEDIMENTS ACCUMULATING IN TRAPS WHEN THEY REACH ELEVATION OF CLEANOUT MARKER.
- 4. MAINTAIN SILT FENCE AND INLET PROTECTION PER THIS PLAN AS THE PROJECT PROGRESSES. 5. CLEAN ALL STORM AND TEMPORARY SEDIMENT TRAPS.
- 6. INSTALL FINAL STABILIZATION AND LANDSCAPING.
- 7. REMOVAL OF ALL TEMPORARY BMPS (INCLUDING SEDIMENT BASINS AND SEDIMENT TRAPS) AS SHOWN ON PLANS ONCE SITE IS PERMANENTLY STABILIZED.

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MARYY T ROAD, RYVILLE,

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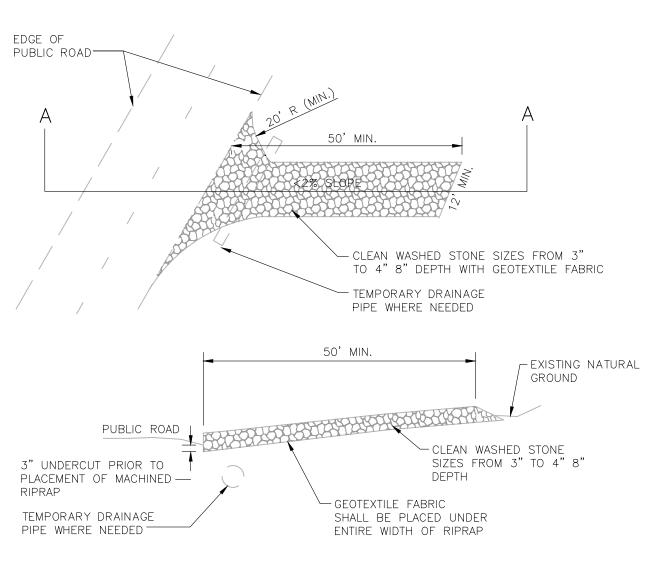
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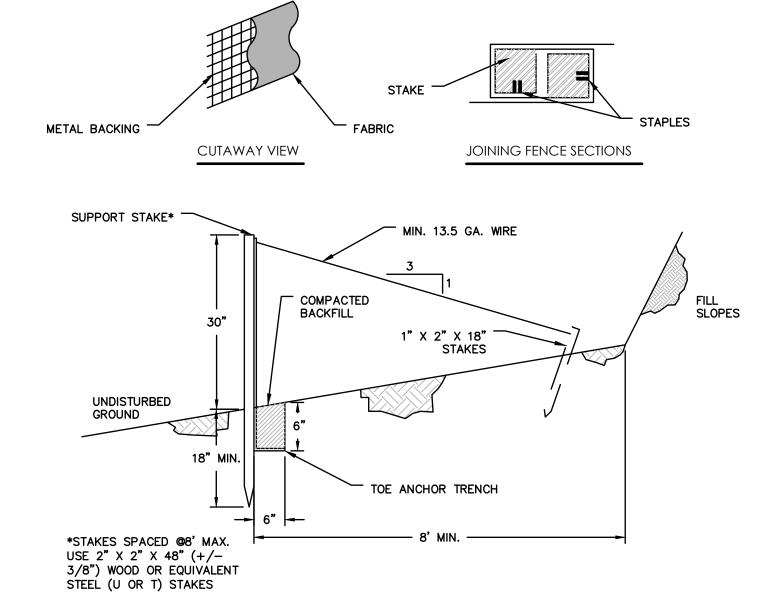
SWPPP NOTES



SECTION A-A

CONSTRUCTION EXIT DETAIL

N.T.S



SILT FENCE SHALL INCLUDE METAL BACKING.

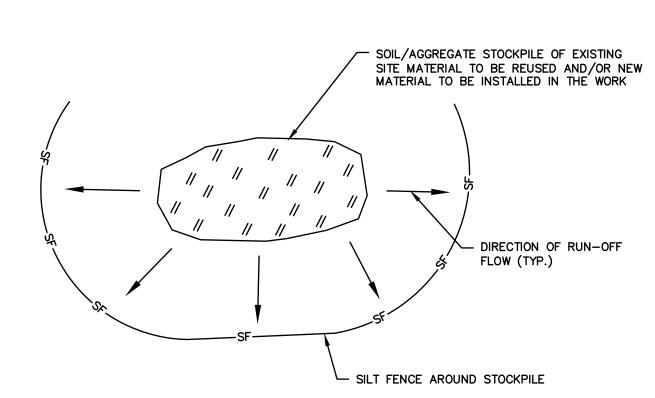
FABRIC WIDTH SHALL BE 42" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL/METAL (U OR T) STAKES. AN 18" SUPPORT STAKE SHALL BE DRIVEN 12" MINIMUM INTO UNDISTURBED GROUND. SILT FENCE SHALL BE INSTALLED AT EXISTING LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION SHALL BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT. SEDIMENT SHALL BE REMOVED WHERE ACCUMULATIONS REACH HALF THE ABOVEGROUND HEIGHT OF THE

ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

REINFORCED SILT FENCE (30" HIGH)

N.T.S



1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.

2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS. 3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED. 4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

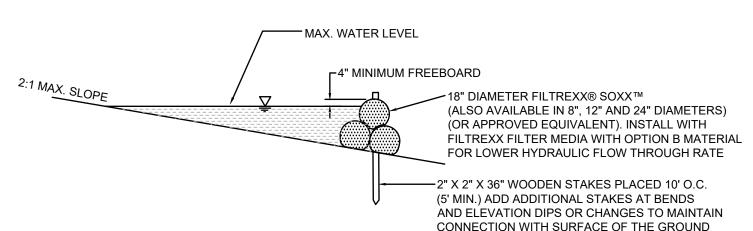
TOPSOIL STOCKPILE DETAIL

N.T.S

SR MARYVILLE PV MINT ROAD, BLOUNT COUNTY MARYVILLE, TN 37803 8 0 1 2 E 4 2300034 Project No. 2/6/2025 CAD File: C2300034-110 SWPPP DETAILS Sheet No. C232 FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

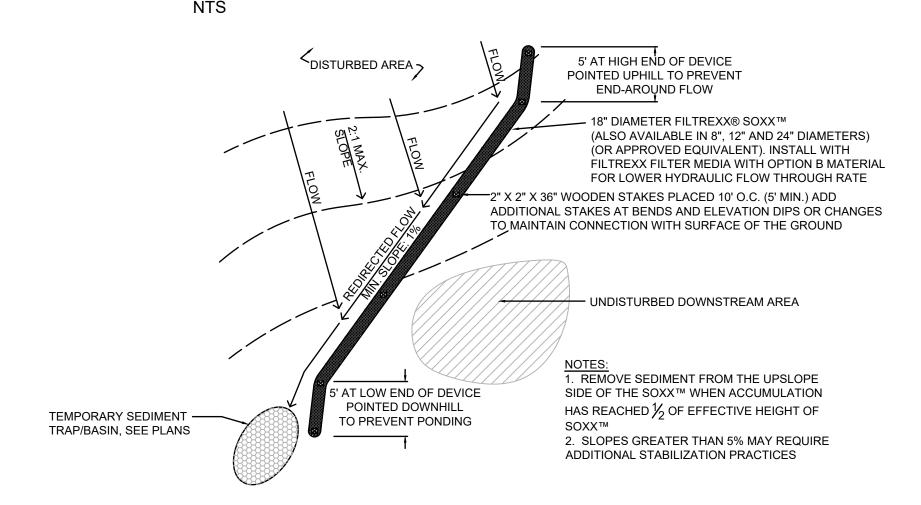
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SINGLE INSTALLATION SECTION

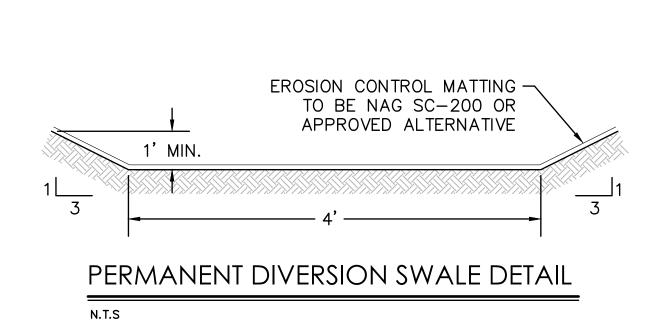


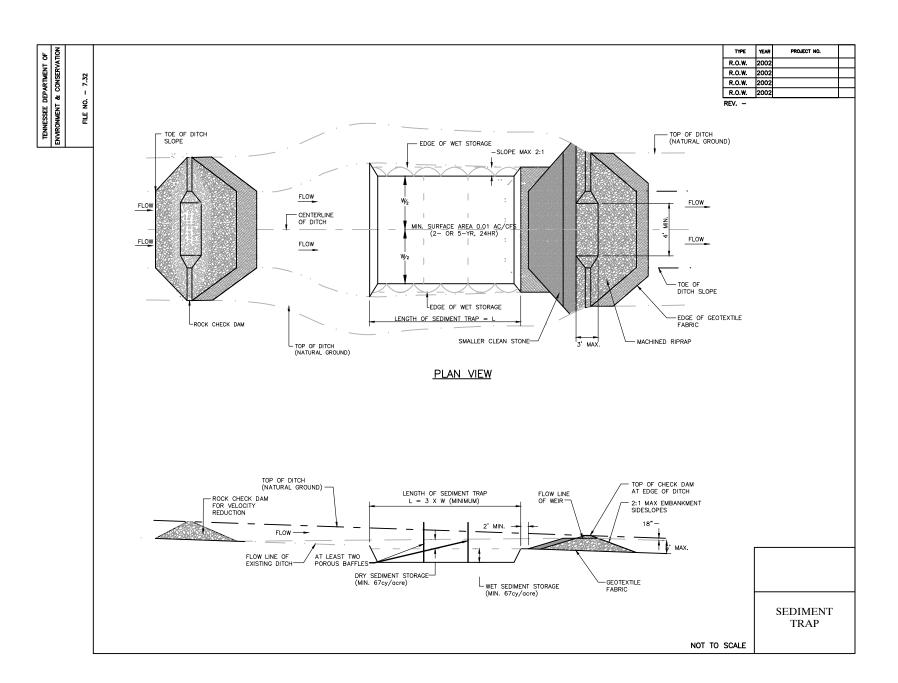
PYRAMID INSTALLATION SECTION

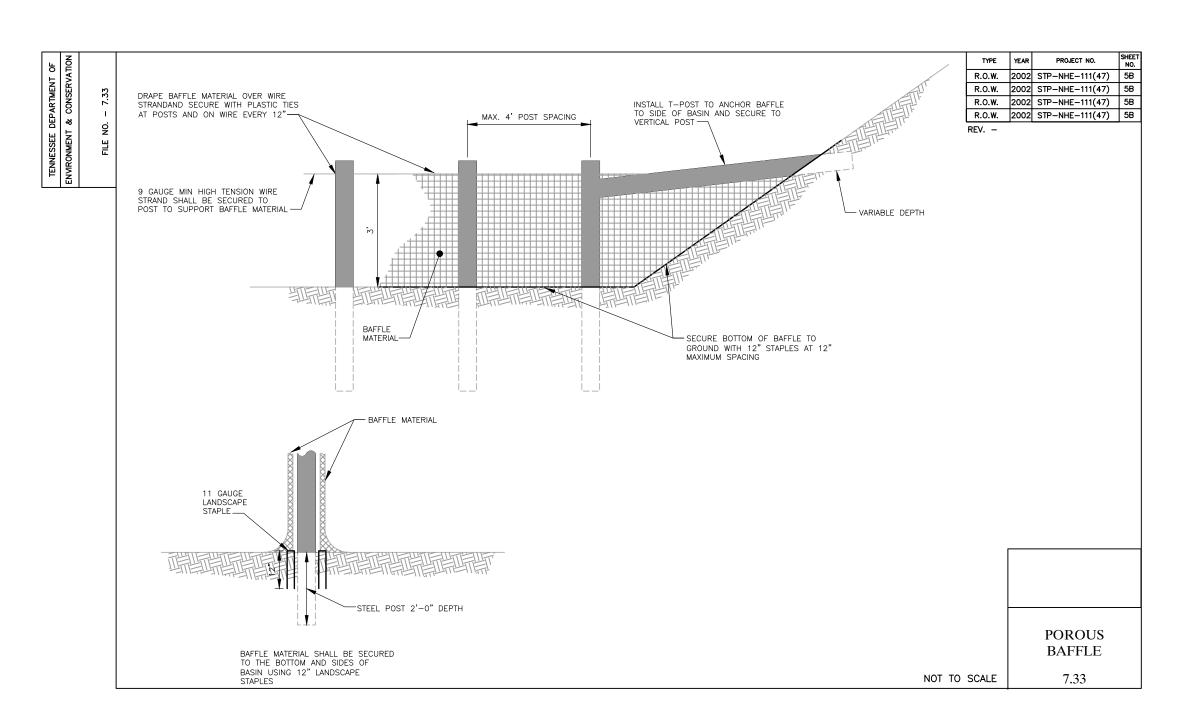
FILTREXX® RUNOFF DIVERSION SECTIONS (SILT SOCK DIVERSION)

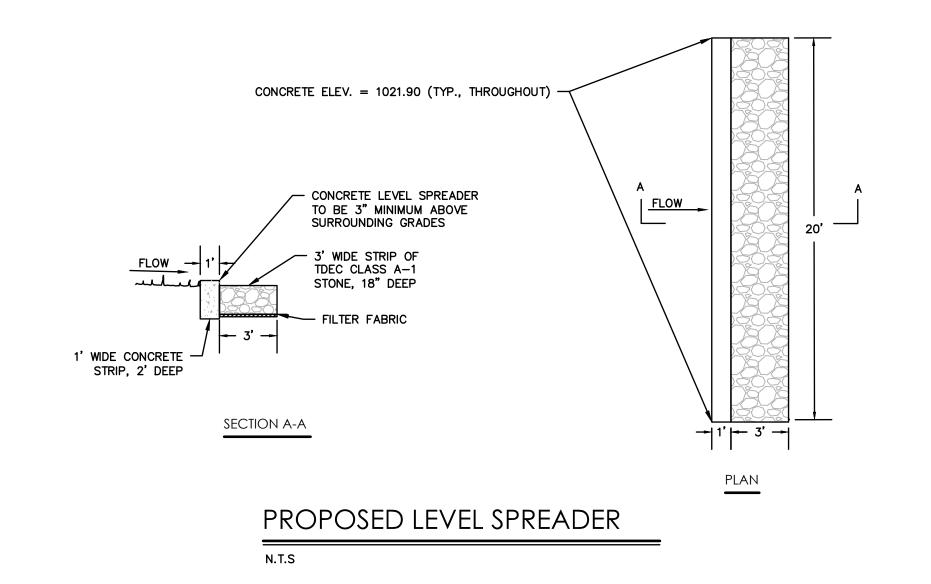


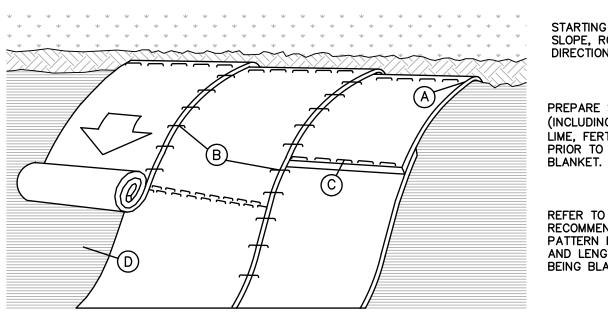
FILTREXX® RUNOFF DIVERSION (SILT SOCK DIVERSION)











STARTING AT TOP OF SLOPE, ROLL BLANKETS IN DIRECTION OF WATER FLOW

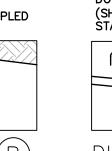
PREPARE SEED BED (INCLUDING APPLICATION OF LIME, FERTILIZER, & SEED)
PRIOR TO INSTALLATION OF

REFER TO MANUFACTURER'S RECOMMENDED STAPLING PATTERN FOR STEEPNESS AND LENGTH OF SLOPE BEING BLANKETED.

ROLL IN 6"X6" ANCHOR TRENCH, STAPLE, BACKFILL AND COMPACT SOIL.

OVERLAPPED 4" (MIN.) AND STAPLED

BLANKET EDGES





OVERLAP BLANKET



THE BLANKET SHOULD





SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DON NOT STRETCH

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION DETAIL

N.T.S

SR MARYVILLE PV NT ROAD, BLOUNT C ARYVILLE, TN 37803

3200 West End Avenue

Suite 500 Nashville, TN 37203

(615) 703-2637

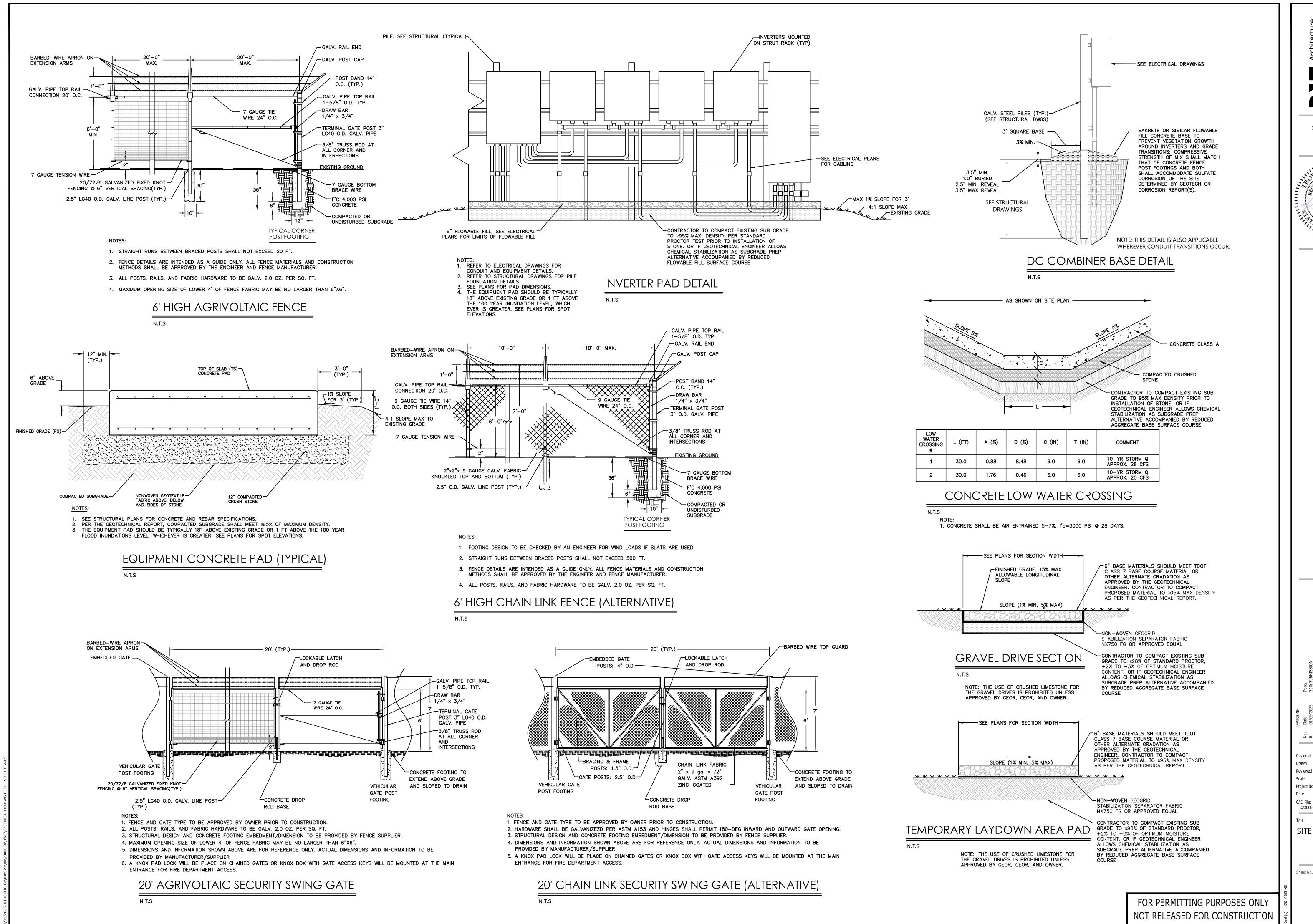
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SWPPP DETAILS

2/6/2025

C233

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(615) 703-2637

BASIL DE AGRICULTURE SOMMERCE NO. 12852

MARYVILLE PV ROAD, BLOUNT COUNTY YVILLE, TN 37803

Desc.
2025 30% SUBMISSION
2025 60% SUBMISSION
2025 SITE PLAN SUBMISSION
2025 90% SUBMISSION
2025 SITE PLAN SUBMISSION
2025 SITE PLAN SUBMISSION

Mo, Date
0 01/09/2025
1 02/06/2025
2 02/27/2025
3 03/06/2025
4 03/31/2025

Designed RDT
Drawn RDT
Reviewed RMR
Scale N/A
Project No. 2300034
Date 2/6/2025
CAD File:
C2300034-110

le: 00034-110 E DETAILS

SITE DETAILS

et No.

C301