Contract Number: C03272
Contract Name: FAIRLEE IM 091-2(91)

VERMONT

AGENCY OF TRANSPORTATION

PROPOSAL

STANDARD SPECIFICATIONS FOR CONSTRUCTION
DATED 2024 SHALL APPLY TO THIS CONTRACT

SPECIAL PROVISIONS

SCHEDULE OF ITEMS

ELECTRONIC BID BOND to be submitted in the amount of 5% of the Contractor's bid.

BIDDING PROCEDURE

Bid Proposals will not be read unless accompanied by an electronic bid bond, and they may be rejected as irregular if they are not in compliance with Agency specifications.

NOTE: All bid proposals shall be properly filled out and submitted electronically utilizing iCX Web System services.

VTrans Mission and Vision

Through excellent customer service, provide for the safe and efficient movement of people and goods.
A safe, reliable, and multimodal transportation system that grows the economy, is affordable to use and operate, and serves vulnerable populations.

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SPECIAL PROVISIONS

1. NOTICE TO BIDDERS – CONTRACT COMPLETION DATE. This Contract shall be completed on or before October 15th, 2028.

2. NOTICE TO BIDDERS – PROHIBITION OF RUSSIAN GOODS. The Contractor is hereby notified that, pursuant to Vermont Executive Order No. 02-22, dated March 3rd, 2022, the purchase of Russian-sourced goods and goods produced by Russian entities (defined as institutions or companies that are headquartered in Russia or have their principal place of business in Russia) is prohibited. The awarded Contractor must fill out and sign the Executive Order 02-22 Vendor Certification as part of the Contract awarding process.

3. NOTICE TO BIDDERS – NIGHT WORK. The Contractor is hereby notified that night work will not be permitted on this Contract. Night will be as defined in Subsection 101.02.

4. NOTICE TO BIDDERS – ELECTRONIC DOCUMENT MANAGEMENT. The Contractor is hereby notified that the Contractor, their subcontractors, and suppliers shall create both a Doc Express and an iCXWeb account. The Contractor shall use these applications for collection and management of electronic documents. Doc Express can be accessed at the following link: https://docexpress.com. iCXWeb can be accessed at the following link: vtrans.exevision.com/icx/Index.aspx.

   All costs associated with the use of Doc Express and iCXWeb will be considered incidental to Item 635.1100, Mobilization/Demobilization. The State will manage the applications including Contract setup upon Contract execution.

   To create an account and for more information regarding the use of Doc Express see the information at the following link:

   https://outside.vermont.gov/agency/vtrans/external/docs/construction/Contracting/DocExpressOverviewforContractors.docx.

   To create an account and for more information regarding the use of iCXWeb see the information at the following link: https://vtrans.vermont.gov/icx

5. NOTICE TO BIDDERS – ELECTRONIC TICKETING VTRANS PORTAL. The Contractor is hereby notified that the Contractor, their subcontractors, and suppliers shall connect to the VTrans Portal and use the application for distribution and management of electronic tickets (e-tickets). VTrans Portal is a state cloud-based e-ticket database, including a web-based user interface and a jobsite mobile e-ticket application. VTrans Portal will interface with the Contractor's supplier existing point of sales or e-ticketing platform and will allow VTrans to manage bituminous material e-tickets.

   All costs associated with the use of VTrans Portal will be considered incidental to the appropriate Section 406 and Section 407 pay items. The Agency will manage the VTrans Portal application including Contract setup upon Contract execution.

   To create an account, connect to the VTrans Portal, and for more information regarding the use of VTrans Portal see the information at the following link: https://www.haulhub.com/vermont-agency-transport-22/

6. NOTICE TO BIDDERS – CONTACT WITH THE AGENCY. From the time of advertising until the actual bid opening for this Contract, all prospective Contractors, subcontractors, and suppliers shall direct all inquiries related to this Contract solely to the Agency's Contract Administration Section at AOT.ConstructionContractingInquiry@vermont.gov.

   The deadline for submitting inquiries related to this Contract is 4:30 p.m. Eastern Time on May 6, 2026. Inquiries received prior to this time will receive a response from the Agency. Inquiries received after this time may receive a response at the Agency's discretion.

7. NOTICE TO BIDDERS – OTHER SPECIFICATIONS AND CONTRACT REQUIREMENTS.

404 Corps of Engineers Permit
ANR RME Consultation
Construction Stormwater Permit
Flood Hazard Area & River Corridor General Permit
State Wetland Permit
Impact Plans
FHWA 1273 – Required Contract Provisions for Federal Aid Construction Contracts
USDOL Davis Bacon Wage Rates by County
Disadvantaged Business Enterprise (DBE) Policy Contract Requirements - CR-110
Attachment C - Standard State Provisions for Contracts and Grants
USDOT Standard Title VI Nondiscrimination Assurances Appendices A, E
Standard Federal Equal Employee Opportunity (EEO) Construction Contract Specifications CA26
Contractor Equal Employment Opportunity (EEO) Certification Form – CA109
Vermont Agency of Transportation Certificate of Compliance – CA271
Vermont Agency of Transportation Minimum Labor and Truck Rates – CA101
Commodity Index Prices – CA170
Schedule of Pay Items

8. NOTICE TO BIDDERS – NEW PREQUALIFICATION FORM. The Contractor is hereby notified that the Agency is required by the U.S. Department of Transportation to develop and maintain a list of information about all firms that bid on federally funded Contracts in accordance with *49 C.F.R. § 26.11*. The Agency has developed a new electronic form to collect this information. The Contractor shall fill out this form as part of their project-specific prequalification for every Contract that they bid on. A link to this form is provided in the prequalification form available through iCX and the Agency's website.

9. NOTICE TO BIDDERS – DAVIS-BACON. U.S. Department of Labor Davis-Bacon wage rates are applicable to this Contract. Copies of the applicable rates are included in this proposal.

10. NOTICE TO BIDDERS – STANDARD DRAWINGS. The Vermont Agency of Transportation Standard Drawings listed on the Index of Sheets are not included in the plan set, but may be found at the following address:
https://resources.vtrans.vermont.gov/resources/cadd/VAOTconSTD_Name.xml?_gl=1*6cpy62*_ga*MTU5MTQ3NTcyNi4xNzIwMjM5NjI0*_ga_V9WQH77KLW*czE3NTI3NTYyMzQkbzE3NCRnMSR0MTc1Mjc1NjkwMyRqNjAkbDAkaDA.

11. NOTICE TO BIDDERS – INFORMATIONAL DOCUMENTS. The Contractor is hereby notified that the following informational documents for this Contract are available on iCXWeb and the VTrans Bid Opportunities website. These documents are being provided during the bid solicitation period for informational purposes only.

    (a) Traffic Management Plan (TMP) Checklist

    (b) Geotechnical Report

    (c) I-91 Southbound Condition Data

    (d) Record Plans

12. NOTICE TO BIDDERS – SURFACE WATER WITHDRAWAL. The Contractor is hereby notified that the Vermont state law, Act 135 of 2022, requires any person withdrawing surface water (as defined in 10 V.S.A. § 1002 (20)) to register with and report the water withdrawal and usage to the Vermont Department of Environmental Conservation beginning January 1, 2023. Guidance can be found here: https://dec.vermont.gov/watershed/rivers/streamflow-protection/act-135-surface-water-withdrawal-registration-and-reporting

13. NOTICE TO BIDDERS – ENVIRONMENTAL COMMITMENTS.

    (a) Threatened, Endangered, and Rare Species. The Contractor shall ensure all personnel working on the project site are made aware of the potential presence and protected status of the northern long- bat and tricolored bat. The Contractor shall ensure all personnel working on the project site are aware of all environmental commitments related to the northern long-eared bat and tricolored bat.

    The removal of trees shall be completed between OCT 1- APR15, inclusive.

    The Contractor is hereby made aware of the potential for TOY restrictions related to proposed off-site activities. Cutting trees ≥ 3" DBH inches in diameter outside of the contract project limits shall require review under Section 105.25 Opening Off-Site Activity Areas.

(b) Invasive Material. If invasive species are delineated on the Plans or found in the project area and confirmed by the Engineer, the invasive species, and any soil excavated from areas that contained the invasive species, will be termed invasive material.

The Contractor shall handle the invasive material in accordance with the *VTrans State Highway System Roadside Terrestrial Invasive Plants Best Management Practices (BMPs)*. The Contractor shall stockpile the invasive material separately from other soil stockpile areas. A ground barrier and perimeter containment system shall be in place around the area intended for stockpiling the invasive material. Equipment shall be cleaned of all soil and plant matter prior to arriving on site in accordance with Subsection 107.06. The equipment used for excavation and transport of invasive material shall be cleaned of all soil and plant matter before being used for work in other areas in accordance with the BMPs.

To the extent possible, invasive material shall be reused on site. Invasive material shall only be reused on site in areas where the presence of the invasive species were clearly evident. If there is an excess of invasive material, it shall be wasted in accordance with the BMPs.

The cost of excavating invasive material will be paid for under the appropriate Contract excavation items. When invasive species are delineated on the Plans, the additional cost for handling invasive material, following the BMPs, cleaning equipment, and wasting excess invasive material will be incidental to all other Contract items. When invasive species are not delineated on the Plans, and compensation is not otherwise provided for in the Contract, the work of handling invasive material, following the BMPs, cleaning equipment, and wasting excess invasive material will be considered extra work in accordance with Subsection 104.03 and will be paid for in accordance with Subsection 109.06.

14. NOTICE TO BIDDERS – UTILITIES. Utility investigation revealed no known underground or aerial facilities within the project limits. The Contractor is cautioned to protect facilities from damage if they are encountered.

The Contractor is advised that exploratory excavation to locate existing underground facilities may be necessary to protect these facilities from damage. Where approved by the Engineer, these utilities shall be located and/or exposed by methods such as air/vacuum excavation and/or hand digging to determine their exact location. This exploratory work shall be classified as Trench Excavation of Earth, Exploratory and payment shall be through Pay Item 204.2200, Trench Excavation of Earth, Exploratory (N.A.B.I.).

There will be no extra compensation paid to the Contractor for any inconvenience caused by working around and with the companies, or their facilities. Should the Contractor desire additional adjustments of the utility facilities for his/her convenience, proper arrangements shall be made in conformance with Subsection 105.09 of the Standard Specifications for Construction.

Vermont Statutes Annotated, Title 30, Chapter 86 ("Dig Safe") requires notice to Dig Safe before starting excavation activities. The Contractor must telephone Dig Safe at 811 at least 72 hours (excluding Saturdays, Sundays and legal holidays) before, but not more than 30 days before, starting excavation activities at any location. In addition, before excavation and/or pavement grinding in or on the state highway right-of-way, the Contractor must contact the Agency's Traffic Signal Superintendent, Dan Ertel, to obtain/verify the location of Agency's underground facilities or to confirm the absence of such facilities. Dan can be reached at (802) 343-2188.

The Contractor is advised that many towns are not members of Dig Safe. It is the Contractor's responsibility to check with towns prior to excavation and shall protect and restore utilities damaged within the project and as set forth in the Standard Specifications for Construction in Subsection 107.12 Protection and Restoration of Utilities and Services.

All Contractors, subcontractors or material suppliers involved in any project-related activity shall comply with all applicable codes and regulations related to working around live electrical lines, including but not limited to maintaining the required minimum clear distance from an electrical utility facility. The Contractor's Competent Safety Officer shall be well versed in OSHA and VOSHA regulations and shall be capable of implementing a plan to conform to these regulations during prosecution of work.

15. NOTICE TO BIDDERS – CONCURRENT CONSTRUCTION. The Contractor is made aware of the following VTrans construction project(s) which are expected to be in progress within the area of this project during its construction.

TABLE 1 – CONCURRENT CONSTRUCTION PROJECTS

Project	Contractor	Anticipated Contract Completion Date
Nowich-Bradford IM 091-2(99)	TBD	October 2027

This list is not all-inclusive and it is possible there may be other VTrans, municipal, or private construction projects within the area of this project during its construction.

The Contractor shall coordinate construction schedules and traffic control with the work required for these projects.

There will be no extra compensation paid to the Contractor for any inconvenience caused by working around these or other projects.

16. NOTICE TO BIDDERS – SPECIAL CONSTRUCTION REQUIREMENTS.

(a) The Contractor shall maintain a safe access to all ramps and U-turns at all times during the construction of this project, unless noted otherwise in the Contract Plans.

(b) During construction it will be necessary for the Contractor to maintain one-lane traffic for extended periods of time. In no case shall the paved width for this one-lane traffic, including shoulders, be reduced to less than 14 feet. This paved width shall remain free of obstructions and obstacles at all times.

(c) The Contractor shall position Portable Changeable Message Signs at locations determined by the Engineer properly warning motorists of the roadway conditions ahead. As directed by the Engineer, these locations may change during construction as needs arise based on daily work activities. The message to be displayed shall be submitted to the Engineer in advance for approval. The displayed message should accurately reflect what motorists can expect to encounter through the project area. The cost of providing the Portable Changeable Message Signs will be paid for under Contract item 641.1500 or 641.1700, as applicable. The Contractor shall also install and maintain appropriate construction signing warning the traveling public of the expected roadway surface conditions.

(d) Prior to final acceptance of the project, all drop inlets and bridge joints within the project limits shall be cleaned and all material within the drop inlets and bridge joints shall be removed. All paved areas adjacent to curbs shall be swept and cleaned of all extraneous material. Costs for this work will not be paid for directly, but will be considered incidental to all Contract items.

(e) There are special events throughout the year that may require close communication and coordination between the Contractor and the municipality to reduce conflicts. The municipality will advise the Engineer and Contractor of the specifics of each event and the Engineer will direct the Contractor as to what actions, if any, will be necessary on the Contractor's part to minimize impacts to the event. Special events that may conflict with Contractor operations are not limited to those which may be listed in this Notice to Bidders. There will be no extra compensation paid to the Contractor for any inconvenience caused by working around any listed or unlisted special events.

For more information about area special events, contact the following:

Fairlee: Ryan Lockwood
Town Administrator
Town of Fairlee
75 Town Common Road
PO Box 95
Townadministrator@fairleevt.gov
802-333-4363 x2

17. NOTICE TO BIDDERS – AFAD. The Contractor is hereby notified that Automated Flagger Assistance Devices (AFADs) are remotely operated devices that enable a certified flagger to be positioned out of the lane of traffic and are used to control motorists through work zones.

AFADs shall only be used in situations where there is no more than one lane of approaching traffic that needs to be controlled. Additionally, since AFADs are not traffic control signals, they shall not be used to replace traffic signals or other continuously operating traffic control devices.

These devices may be used as a safety enhancement to flaggers on an hour-for-hour basis. AFADs shall meet the following requirements:

(a) All AFAD applications shall meet the requirements of the applicable sections of the current edition of the *Manual on Uniform Traffic Control Devices* (*MUTCD*).

(b) All AFAD applications shall be in accordance with *NCHRP Report 350* or the *MASH* for the applicable test level and device weight. Documentation of the crashworthiness of the device shall be submitted to the Engineer for approval prior to use on the project.

(c) AFAD applications shall always be controlled by a flagger who has been trained in the operation of the AFAD and who meets the requirements of Section 630. The flagger shall not flag traffic and operate an AFAD at the same time.

(d) Should an AFAD malfunction or otherwise not function as intended they shall be replaced by another AFAD or flagger(s) or work shall cease and the roadway shall be opened to unrestricted traffic flow immediately.

(e) Each AFAD will be considered equivalent to one flagger and will be measured and paid for on an hourly basis under Item 630.1500 Flaggers. One hour of AFAD use shall be paid for as one hour of flagging.

(f) Flaggers will only be measured for payment when actually performing flagging duties. Flaggers controlling AFADs but not actually flagging will not be measured for payment, but will be considered incidental to the Contract lump sum price for Item 641.1000 Traffic Control, or Item 641.1100 Traffic Control, All-Inclusive, as applicable.

(g) The use of AFADs may be suspended at the discretion of the Engineer.

18. NOTICE TO BIDDERS – FUEL PRICE ADJUSTMENT. In addition to the items specified in Section 690, the Special Specification items listed in Table 1 will also be eligible for Fuel Price Adjustment under Section 690.

TABLE 1 – SPECIAL SPECIFICATION ITEMS SUBJECT TO FUEL PRICE ADJUSTMENT

Special Specification Pay Items Subject to Adjustment:		Using the Tabulated Fuel Usage Factor and Threshold Quantity for:
Item No.	Item Name	Work Category
N/A	N/A	N/A

19. NOTICE TO BIDDERS – SUBSECTION 105.11(b). Subsection 105.11(b) is hereby modified by being deleted in its entirety and replaced with the following:

(b) Permanent Marking Layout. The Contractor shall be responsible for the layout of the permanent traffic markings in accordance with the Plans. The Engineer will verify the layout of the permanent traffic markings, including passing zones and breaks for town highways.

20. NOTICE TO BIDDERS – SUBSECTION 107.21(b). Subsection 107.21(b) is hereby modified by deleting the phrase "*M-22-11*" from the second sentence and replacing it with the phrase "*M-24-02*".

21. NOTICE TO BIDDERS – TABLE 108.12A. Table 108.12A is hereby modified by being deleted in its entirety and replaced with the following:

TABLE 108.12A – DAILY LIQUIDATED DAMAGES CHARGE PER WORKING DAY OF DELAY

Original Contract Amount		Daily Charge per Working Day of Delay
From More Than	To and Including	
$0	$1,500,000	$3,200
$1,500,000	$3,000,000	$3,400
$3,000,000	$5,000,000	$3,600
$5,000,000	$10,000,000	$4,100
$10,000,000	$15,000,000	$4,700
$15,000,000	$20,000,000	$5,200
$20,000,000	--	$5,800

22. NOTICE TO BIDDERS – SUBSECTION 507.01(b). Subsection 507.01(b) is hereby modified by inserting the phrase "stainless-clad," immediately after the phrase "Level II reinforcing includes dual-coated,".

23. NOTICE TO BIDDERS – SUBSECTION 507.04(c). Subsection 507.04(c) is hereby modified by inserting the phrase "and hot-dipped galvanized" immediately after the phrase "Cut ends of continuously-galvanized".

24. NOTICE TO BIDDERS – SUBSECTION 713.01. Subsection 713.01 is hereby modified by relabeling subpart (h) as subpart (i) and inserting the following as the new subpart (h):

    (g) Stainless-Clad Reinforcing Steel. Stainless-clad reinforcing steel shall meet the requirements of *AASHTO M 329*.

25. NOTICE TO BIDDERS – SUBSECTION 540.02. Subsection 540.02 is hereby modified by adding the following entry to the materials subsection list in numerical order:
    High Early-Strength Portland-Limestone Cement.....701.08

26. NOTICE TO BIDDERS – SUBSECTION 540.04. Subsection 540.04(a)(7) is hereby modified by being deleted in its entirety and replaced with the following:

(7) Mix Design Approval and Changes. After the mix design furnished by the Contractor has been reviewed and approved by the Structural Concrete Engineer, no changes to the mix design will be allowed except as defined in Table 540.04A. All changes to an approved mix design, including the addition of admixtures not previously included, shall require a revised mix design submittal for approval.

Following an approved change in accordance with Table 540.04A, the Contractor may still revert to the original approved mix design formulation. If a source change is requested due to a change in product or material name that does not include any change in product formulation or material characteristic, and this is substantiated by the product or material supplier in writing, re-testing is not required.

TABLE 540.04A – ALLOWABLE MIX DESIGN CHANGES

Previously Approved Component or Property Being Changed	Mix Design Resubmittal Requirements [1]	No. of Changes Allowed
Cement source [2]	If the alkali content (Na and K) of the new source is greater than that of the original source, and the original result from Subsection 540.04(a)(6)g. was greater than 0.08% expansion, then updated ASR testing is required. Otherwise, no qualification testing is required.	Unlimited
Cement proportioning (± 5% by volume)	No qualification testing required.	One
Aggregate proportioning (± 10% by volume)	No qualification testing required.	One
Aggregate source	ASR testing and gradation check by original Contractor method.	One
Slag source	If same grade is used, no qualification testing required.	Unlimited
Silica fume source	No qualification testing required.	Unlimited
Fly ash source	If either the calcium (CaO) or the alkali (Na and K) content of the new source is greater than that of the original source, and the original result from Subsection 540.04(a)(6)g. was greater than 0.08% expansion, then updated ASR testing is required. Otherwise, no qualification testing is required.	Unlimited
Air-entraining admixture source (Subsection 725.02(b))	Resubmittal of freeze/thaw durability qualification testing.	Unlimited
Shrinkage reducing admixture source (Subsection 725.02(k))	Resubmittal of shrinkage qualification testing.	Unlimited
Corrosion inhibiting admixture source (Subsection 725.02(k))	Resubmittal of shrinkage qualification testing. If shrinkage qualification testing of the original mix design is greater than 70% of shrinkage limit, then updated shrinkage testing is required.	Unlimited
Latex admixture source (Subsection 725.02(d))	Resubmittal of surface resistivity testing.	Unlimited
Accelerating admixture dosage increase (Subsection 725.02(i), Subsection 725.02(j))	Resubmittal of shrinkage qualification testing.	Unlimited
Accelerating admixture source (Subsection 725.02(i), Subsection 725.02(j))	No qualification testing required.	Unlimited
ASR mitigating admixture source and dosage decrease (Subsection 725.02(k))	Resubmittal of ASR qualification testing.	Unlimited
All other admixture source and dosage changes (Subsection 725.02)	No qualification testing required.	Unlimited

[1] All changes will require administrative submittal to establish proposed changes. Where required, resubmittal testing shall be completed using the same material sources and proportions from the original approved mix design.

[2] The same cement type from a different manufacturer. Type 1L may be substituted for Type I/II from the same source and Type 1L(HE) may be substituted for Type III from the same source.

In no case shall concrete from more than one mix design be permitted to be used during the same pour without prior written approval of the Engineer.

The approved mix design will be allowed consecutive re-approval if no material proportioning or material sources have changed from the previous year's approved mix design, except as allowed by Table 540.04A, and the mix design is submitted with updated aggregate properties and volumes adjusted accordingly. The aggregate properties shall be tested annually. Aggregate property values will be valid for 14 months from the date tested. The properties to be tested include, but are not limited to, specific gravity and absorption.

The mix design shall be accompanied by the previously completed and accepted mix qualification test data and any applicable updated test information. The submittal shall also include all applicable quality control test results and all requests for variance from the material requirements of these specifications.

27. NOTICE TO BIDDERS – SUBSECTION 621.14. Subsection 621.14 is hereby modified by deleting the second paragraph in its entirety.

28. NOTICE TO BIDDERS – SUBSECTION 621.15. Subsection 621.15 is hereby modified by adding the word "anchors" to the first paragraph, immediately after the phrase "…for removing and disposing of materials, including…".

29. NOTICE TO BIDDERS – SUBSECTION 621.15. Subsection 621.15 is hereby further modified by deleting the second paragraph in its entirety.

30. NOTICE TO BIDDERS – SUBSECTION 621.15. Subsection 621.15 is hereby further modified by adding the phrase "Steel Beam Guardrail Offset Block; Terminal Connector for Steel Beam Guardrail; Traffic Barrier Delineator;" to the seventh paragraph, immediately after the phrase "The accepted quantity of…" and immediately before the phrase "…Replace Guardrail Post Assembly, W-Beam with 6 Foot Posts; Replace Guardrail Post Assembly, W-Beam with 8 Foot Posts; Replace Guardrail Post Assembly, Box Beam; and Replace Guardrail Post Assembly, Thrie Beam…"

31. NOTICE TO BIDDERS – SUBSECTION 621.15. Subsection 621.15 is hereby further modified by deleting the phrase "removing and disposing of damaged guardrail components;" from the eighth paragraph.

32. NOTICE TO BIDDERS – SUBSECTION 621.15. Subsection 621.15 is hereby further modified by deleting the ninth paragraph, which begins with the phrase "The accepted quantity of Steel Beam Guardrail Offset Block; Terminal Connector for Steel Beam Guardrail; Anchor for Steel Beam Guardrail;…" in its entirety and replacing it with the following:

The accepted quantity of Anchor for Steel Beam Guardrail; Anchor for Steel Beam Guardrail, MGS; and Anchor for Steel Beam to Box Beam Transition will be paid for at the Contract unit price for each. Payment will be full compensation for furnishing, transporting, handling, and placing the materials specified; and for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work.

33. NOTICE TO BIDDERS – SUBSECTION 621.15. Subsection 621.15 is hereby modified by deleting the following pay items from the list of pay items:

621.0110 Removal of Guardrail Posts .....Each
621.0120 Removal of Guardrail Offset Blocks .....Each

34. NOTICE TO BIDDERS – SUBSECTION 646.04(d). Subsection 646.04(d) is hereby modified by deleting the first sentence of the first paragraph in its entirety and replacing it with the following:

> The Contractor shall be responsible for the layout for the permanent traffic markings as specified in Subsection 105.11(b).

35. NOTICE TO BIDDERS – SUBSECTION 646.07(a)(2)a. Subsection 646.07(a)(2)a. is hereby modified by deleting the first sentence of the first paragraph in its entirety and replacing it with the following:

> Initial dry retroreflectivity minimums for surface applied epoxy shall be 250 millicandelas per square meter per lux (mcd/m^2/lx) for yellow markings and 350 mcd/m^2/lx for white markings.

36. NOTICE TO BIDDERS – SUBSECTION 646.08(a)(2)a. Subsection 646.08(a)(2)a. is hereby modified by deleting the first sentence of the first paragraph in its entirety and replacing it with the following:

> Initial dry retroreflectivity minimums for surface-applied polyurea shall be 250 mcd/m^2/lx for yellow markings and 350 mcd/m^2/lx for white markings.

37. NOTICE TO BIDDERS – SUBSECTION 646.09(b)(2)a. Subsection 646.09(b)(2)a. is hereby modified by deleting the first sentence of the first paragraph in its entirety and replacing it with the following:

> Initial dry retroreflectivity minimums for surface-applied extruded thermoplastic shall be 250 mcd/m^2/lx for yellow markings and 350 mcd/m^2/lx for white markings.

38. NOTICE TO BIDDERS – SUBSECTION 701.08. Subsection 701.08 is hereby made a new subsection of the specifications as follows:

701.08 HIGH EARLY-STRENGTH PORTLAND-LIMESTONE CEMENT. High early strength Portland-limestone cement shall meet the requirements of *AASHTO M 240* and *ASTM C595*, Type IL (HE).

39. NOTICE TO BIDDERS – SUBSECTION 702.01. Subsection 702.01 is hereby modified by deleting the phrase "*AASHTO PP 113*" from the second paragraph and replacing it with the phrase "*AASHTO R 118*".

40. NOTICE TO BIDDERS – SUBSECTION 702.03. Subsection 702.03 is hereby modified by being deleted in its entirety and replaced with the following:

702.03 WARM-MIX ASPHALT TECHNOLOGIES. Warm-mix asphalt (WMA) technologies shall allow asphalt mixtures to be produced and placed at temperatures lower than hot-mix asphalt by temporarily reducing binder viscosity through foaming processes or by the inclusion of organic or chemical additives. WMA technologies shall meet the following requirements:

(a) Foaming. WMA technologies utilizing foaming processes shall be evaluated in accordance with the *Bituminous Concrete Policy Manual*.

(b) Organic or Chemical Additives. WMA technologies using organic or chemical additives shall be evaluated in accordance with the AASHTO Product Evaluation & Audit Solutions work plan for *Evaluation of Warm Mix Asphalt Technologies and Anti-Strip Additives*, be one of the products listed on the Agency's *Approved Products List*, and meet the following requirements:

(1) PG Binder Grading. The product shall not change the classified performance grade or traffic designation of the base asphalt binder as determined in accordance with *AASHTO M 332*.

(2) Tensile Strength Ratio (TSR). WMA mixtures shall achieve a TSR value greater than or equal to that of the corresponding control (non-WMA) mixture as determined in accordance with *AASHTO T 283*.

(3) Final Rut Depth. WMA mixtures shall have a final rut depth 1/2 inch (12.5 mm), or less, after a minimum of 10,000 passes, as determined in accordance with *AASHTO T 324*.

WMA technologies that also act as an anti-strip agent, and are dosed to abate stripping, shall also meet the requirements of Subsection 702.04 and will be evaluated separately.

41. NOTICE TO BIDDERS – SUBSECTION 702.04. Subsection 702.04 is hereby modified by being deleted in its entirety and replaced with the following:

702.04 ANTI-STRIP ADDITIVES. Anti-strip additives (ASA) used to abate stripping between asphalts and aggregate shall be heat stable for all temperature ranges prescribed for the asphalt binder and capable of thorough dispersion in the binder without losing their effectiveness when in storage and at the designated mixture temperatures. The ASA shall also be capable of improving the moisture sensitivity and rutting susceptibility, and reducing film stripping of the bituminous concrete mixture. ASAs shall be evaluated in accordance with the AASHTO Product Evaluation & Audit Solutions work plan for *Evaluation of Warm Mix Asphalt Technologies and Anti-Strip Additives*, be one of the products listed on the Agency's *Approved Products List*, and meet the following requirements:

(a) PG Binder Grading. The product shall not change the classified performance grade or traffic designations of the base asphalt binder.

(b) Tensile Strength Ratio (TSR). Limestone ASA mixtures shall have a TSR greater than or equal to the result corresponding to the limestone control (non-ASA) mixture. Granite ASA mixtures shall have a minimum TSR value that is greater than or equal to the result corresponding to the granite control (non-ASA) mixture and a minimum of 80%, as determined in accordance with *AASHTO T 283*.

(c) Final Rut Depth. Granite ASA mixtures shall have a final rut depth of 1/2 inch (12.5 mm), or less, as determined in accordance with *AASHTO T 324*.

(d) Stripping Inflection Point (SIP). Granite ASA mixtures shall have a SIP that is greater than or equal to the result corresponding to the granite control (non-ASA) mixture, as determined in accordance with *AASHTO T 324*.

(e) Loss of Adhesion. ASAs shall have a maximum loss of adhesion of 5% in both the limestone and granite samples as determined in accordance with *ASTM D3625*.

42. NOTICE TO BIDDERS – TABLE 716.02B. Table 716.02B is hereby modified by deleting the third row in its entirety and replacing it with the following:

Air voids	4.00%	4.00%	4.00%	4.00%	3.00%

43. NOTICE TO BIDDERS – SUBSECTION 716.02(b)(2). Subsection 716.02(b)(2) is hereby modified by deleting subpart a. in its entirety and relabeling subparts b. through e. as a. through d.

44. NOTICE TO BIDDERS – SUBSECTION 716.02(b)(3). Subsection 716.02(b)(3) is hereby modified by deleting subparts d. and e. and Table 716.02E in their entirety and replacing them with the following:

d. Evaluate mixture moisture sensitivity and rutting susceptibility using the Hamburg wheel tracker test (HWTT) to ensure the criteria outlined in Table 716.02E are met. Specimen fabrication, conditioning, and test procedures for the HWTT shall be in accordance with *AASHTO T 324* as modified in the Agency's *Bituminous Concrete Policy Manual*. The HWTT will not be applicable to material used for non-paver placed pavement, surface preparation, temporary pavement, curbs, gutters, or sidewalks.

e. Determine mixture cracking tolerance index (CT-Index) using the indirect tensile cracking test to ensure the criteria outlined in Table 716.02E are met. Specimen fabrication, conditioning, and test procedures for determination of the CT-Index shall be in accordance with *ASTM D8225* as modified in the Agency's *Bituminous Concrete Policy Manual*. The CT-Index will not be applicable to material used for non-paver placed pavement, surface preparation, temporary pavement, curbs, gutters, or sidewalks.

TABLE 716.02E – MIXTURE PERFORMANCE CHARACTERISTICS

Mix Type	Hamburg Wheel Tracker Test			Indirect Tensile Cracking Test
	Maximum Rut Depth	Minimum Number of Passes	Minimum Stripping Inflection Point (SIP)	Minimum Average CT-Index Value
Type IS	1/2 in. (12.5 mm)	20,000 passes	15,000 passes	Report
Type IIS	1/2 in. (12.5 mm)	20,000 passes	15,000 passes	45
Type IIIS	1/2 in. (12.5 mm)	20,000 passes	15,000 passes	70
Type IVS	1/2 in. (12.5 mm)	20,000 passes	15,000 passes	85
Type IVSB	1/2 in. (12.5 mm)	20,000 passes	15,000 passes	85

45. NOTICE TO BIDDERS – SUBSECTION 728.02. When material is supplied in accordance with Subsection 728.02(b) or Subsection 728.02(e), material in accordance with AASHTO M 180-18 may be substituted in place of material meeting AASHTO M 180-23.

SECTION 225-0002 – TEMPORARY SUPPORT OF EXCAVATION

225-0002.01 DESCRIPTION. This work shall consist of designing, specifying, furnishing, installing, and removing temporary support of excavation (SOE) at locations shown on the Plans and locations proposed by the Contractor. SOE may consist of soldier piles, tiebacks, deadman anchors, lagging, sheet piling, bracing, reinforced concrete walls, gravity walls, or other systems designed by the Contractor.

225-0002.02 MATERIALS. Materials shall meet the requirements specified in the conforming construction drawing submittal.

Materials may be new or used and shall be in satisfactory condition. Used materials shall be in a condition that is approved by the support of excavation engineer of record. The Engineer may request that the support of excavation engineer of record provide written certification of the condition of any material with damage, section loss, or other types of wear that may impact its function.

225-0002.03 SUBMITTALS. The Contractor shall submit construction drawings and calculations for conformance in accordance with Subsection 105.06. Work shall not begin on the temporary SOE until all submittal requirements have been satisfied.

(a) Design. The Contractor provided design for the SOE shall meet the following criteria:

(1) The design and details shall conform with the Contract and the applicable requirements in the *AASHTO Guide Design Specifications for Bridge Temporary Works* and *AASHTO Standard Specifications for Highway Bridges* or *AASHTO LRFD Bridge Design Specifications*. The design shall be structurally stable for all conditions to be encountered (e.g. soils, water, forces, surcharges, and loadings). When specified on the Plans, stability and settlement analyses shall be performed and assumptions and results shall be provided. If actual encountered subsurface conditions differ from those assumed in the construction drawings, the design shall be revised.

(2) The design and details shall satisfy all OSHA and VOSHA requirements associated with trenching and excavations.

(3) The SOE shall plan for the proposed structures.

(4) Deflection and settlement estimates for the SOE system shall be provided. Settlement estimate values of the roadway shall not exceed the values provided on the Plans, if applicable.

(5) The design shall include checks for each phase of the installation and removal sequence.

(b) Details. The submittal shall include details indicating the following information. Where applicable, plan, elevation, and section views shall be submitted.

(1) Site constraints, including the existing and future roadway and clear zone envelopes, utility locations, rights-of-way and easements, and proposed structure locations.

(2) SOE geometry, including the layout, dimensions, clearances, working platforms, and any other relevant information. Layout drawings shall show the proposed sequence of soldier pile, tieback, deadman anchor, and sheet pile installation. Layout drawings shall include pile or tieback number and total pile number and length.

(3) Anchorage details, including tieback and deadman anchor capacity, design load, type of tendon or rod, anchorage hardware, minimum bonded and unbonded lengths, minimum anchor lengths, angle of installation, spacers, centralizers, and tolerances.

(4) Testing requirements, procedures, and details of testing setup for anchors.

(5) The size and dimensions of all components, grades and strength of materials, welding requirements, and all connection details including member splices.

(c) Qualifications. The Contractor shall submit the following information.

(1) The temporary SOE shall be designed by a professional engineer with experience in the design of at least 3 temporary SOE systems of the type specified in the Contractor's design and of similar height and geotechnical conditions over the past 5 years. The Contractor shall provide a reference list with a brief description of each project with the owner's name and current phone number included.

(2) Three projects in the past 5 years where the Contractor or subcontractor performing the work has successfully installed a temporary SOE system of the type specified by the Contractor's design. A reference list shall be provided for the company and the on-site superintendent. A brief description of each project with the owner's name and current phone number shall be included.

(3) The on-site SOE superintendent shall have a minimum of 2 years of experience supervising construction of SOE system of the same type as specified by the Contractor's design and of similar height and geotechnical conditions to those shown in the Contract. The work experience shall be direct supervisory responsibility for the on-site operation.

The Engineer may suspend the SOE construction if the Contractor substitutes unapproved field personnel without prior approval by the Engineer. The Contractor shall be fully liable for the additional costs resulting from the suspension of work and no adjustments in Contract time resulting from such suspension of work will be allowed.

(d) Installation Procedure. The submitted installation procedure shall include the following information:

(1) The detailed proposed construction sequence and schedule.

(2) The proposed access methods and safety plan.

(3) Concrete and grout mix designs.

(4) The proposed tieback type, installation, drilling, and grouting methods.

(5) Deflection and settlement monitoring plan.

225-0002.04 PRECONSTRUCTION MEETING. When directed by the Engineer, the Contractor shall schedule a temporary SOE preconstruction meeting after all submittals have been accepted and before starting construction of the SOE system to discuss the construction and inspection of the Temporary SOE. The Engineer, Regional Construction Engineer, Geotechnical Engineering Manager, Contractor, Construction Structures Engineer, and the SOE subcontractor superintendent shall attend all temporary SOE preconstruction meetings.

225-0002.05 CONSTRUCTION REQUIREMENTS.

(a) Installation. Installation of the temporary SOE shall be in accordance with the conforming construction drawings.

(b) Removal. After its function is no longer required, the SOE may be entirely removed at the Contractor's discretion. The temporary SOE shall be removed, at a minimum, to below subgrade when located within the proposed roadway or to 2 feet below final grade when located outside of the roadway, unless otherwise specified in the Contract. Voids shall be completely filled to the satisfaction of the Engineer and embankments reconstructed in accordance with Section 203.

SOE construction shall conform to the *AASHTO LRFD Bridge Construction Specifications*.

The Contractor shall monitor the SOE for deflection and settlement as specified in the deflection and settlement monitoring plan using either survey points or tiltmeters. If subsidence occurs, the Contractor shall cease work and provide a written plan to prevent and remediate subsidence for approval by the Engineer. The Contractor shall repair all damage that results from the subsidence at no additional cost to the Agency.

225-0002.06 METHOD OF MEASUREMENT. The quantity of Temporary Support of Excavation to be measured for payment will be on a lump sum basis in the complete and accepted work.

225-0002.07 BASIS OF PAYMENT. The accepted quantity of Temporary Support of Excavation will be paid for at the Contract lump sum price. Payment will be full compensation for all SOE systems used on the project including designing, detailing, furnishing, transporting, storing, handling, erecting, installing, and removing the temporary support of excavation, and for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work.

Partial payments will be made as follows:

(a) The first payment of 15% of the Contract lump sum price will be made upon acceptance of the submittals required as part of this specification.

(b) The second payment of 70% of the Contract lump sum price will be made upon completion of satisfactory construction of the temporary support of excavation.

If the Contract requires adjustment of the temporary support of excavation for subsequent phases of construction, the Engineer may prorate the second payment for each phase of construction.

(c) The final payment of 15% of the Contract lump sum price will be paid upon removal of the temporary support of excavation.

Payment will be made under:

Pay Item	Pay Unit
225.0500001 Temporary Support of Excavation	Lump Sum

SECTION 240-0001 – TEMPORARY ROADWAY

240-0001.01 DESCRIPTION. This work shall consist of the construction, maintenance, and removal of temporary pavement, temporary roadway widening, temporary traffic diversions, and highway crossovers, collectively termed temporary roadways, used to maintain traffic within the project limits as shown on the Plans and as directed by the Engineer.

240-0001.02 MATERIALS. The Contractor may use any material or combination of materials that will conform to the requirements of this section and the Plans and meet the approval of the Engineer. The Engineer shall have the right to reject materials that will not meet structural requirements.

240-0001.03 SUBMITTALS. Construction drawings shall be submitted in accordance with Subsection 105.06 for any support of excavation, retaining structures, or bracing required or proposed for completing the work under this section.

If the temporary roadway is not fully designed in the Plans, the Contractor shall also submit, in accordance with Subsection 105.06, a plan showing the layout, alignment, typical sections, materials, and any other details and information necessary to construct the temporary roadway.

240-0001.04 CONSTRUCTION REQUIREMENTS. Where temporary roadways are not being constructed on in-situ materials, embankments shall be constructed of acceptable fill material that has been compacted to adequately support the loading requirements of the highway traffic is being diverted from. The subbase shall extend for the full length of the temporary roadway. Topsoil removed for temporary roadway construction may be stockpiled and reused in accordance with Section 651 for all phases of temporary roadway construction, or removed at the discretion of the Engineer.

The Contractor shall extend any existing drainage structures or place new temporary drainage structures to the extent necessary to accommodate the temporary roadway and any widening needed, using a box culvert, pipe, or other means as shown on the Plans and as directed by the Engineer. Where a temporary bridge is required, all requirements of Section 528 shall be met.

Unless the Plans prescribe other pavement design criteria specifically for temporary roadways, bituminous concrete mixtures shall conform to the requirements of Section 716 and shall have an N_{design} value of 65 gyrations and use an asphalt binder grade of 58S-28. Bituminous concrete pavement shall conform to the requirements of Section 406, except that Agency materials evaluation will not be required. The temporary pavement shall extend for the full length of the temporary roadway. Temporary pavement markings shall be placed in accordance with Section 646. The temporary pavement markings shall extend for the full length of the temporary roadway or as necessary to match into existing pavement markings. The Engineer may waive weather limitations for placement of bituminous concrete pavement and temporary pavement markings.

When temporary traffic barriers are used, they shall be in accordance with Section 621.

If the Plans require the temporary roadway earthwork to remain in place at the completion of the project, the pavement shall be removed from the temporary roadway and turf shall be established as shown on the Plans and in accordance with Section 203, Section 651, and Section 653.

(a) Temporary Cover Pavement. Unless otherwise specified on the Plans, temporary cover pavement shall consist of a single 2 inch lift of Type IIIS or Type IVS bituminous concrete pavement.

(b) Temporary Roadway Widening. Unless otherwise specified on the Plans, a minimum of 6 inches of approved gravel or other acceptable subbase material shall be provided for the full width of the typical section, and the roadway surface shall be paved with two lifts of bituminous concrete pavement to a minimum depth of 3 inches, with a wearing course of Type IIIS or Type IVS bituminous concrete pavement.

(c) Temporary Traffic Diversion. Unless otherwise specified on the Plans, a minimum of 12 inches of approved gravel or other acceptable subbase material shall be provided for the full width of the typical section, and the roadway surface shall be paved with two lifts of bituminous concrete pavement to a minimum depth of 3 inches, with a wearing course of Type IIIS or Type IVS bituminous concrete pavement.

(d) Divided Highway Crossover. Unless otherwise specified on the Plans, a minimum of 18 inches of approved gravel or other acceptable subbase material shall be provided for the full width of the typical section, and the roadway surface shall be paved with two lifts of bituminous concrete pavement to a minimum depth of 4 inches, with a wearing course of Type IIIS or Type IVS bituminous concrete pavement.

240-0001.05 METHOD OF MEASUREMENT. The quantity of Temporary Cover Pavement to be measured for payment will be the number of tons of mixture complete in-place in the accepted work as determined from the weight tickets.

The quantity of Temporary Roadway Widening, Temporary Traffic Diversion, and Divided Highway Crossover to be measured for payment will be on a lump sum basis for each temporary roadway specified on the Plans.

240-0001.06 BASIS OF PAYMENT. The accepted quantity of Temporary Cover Pavement will be paid for at the Contract unit price per ton. The accepted quantity of Temporary Roadway Widening, Temporary Traffic Diversion, and Divided Highway Crossover will be paid for at the Contract lump sum price.

Payment will be full compensation for constructing, maintaining, and removing the temporary roadway, including any required excavation, milling, stockpiling topsoil, fill materials, and subbase materials; temporary culverts, pipes, and bridges; temporary retaining structures or bracing and submitting any required construction drawings; drilling and blasting of solid rock subgrade; saw cutting pavement, emulsified asphalt, bituminous concrete pavement, pavement marking mask, and temporary pavement markings; re-handling and spreading topsoil, topsoil, fertilizer, agricultural limestone, hay mulch, and seeding; adjusting the height of existing guardrail, re-lapping existing guardrail, temporary guardrail, temporary traffic barrier, removing and resetting delineators and posts, and removing and resetting signs; removing those portions of the temporary roadway not being incorporated in the permanent work or as directed by the Engineer; and for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work.

Temporary traffic control devices and construction signing will be paid for separately under the appropriate Section 641 Contract items.

Partial payments for Temporary Roadway Widening, Temporary Traffic Diversion, and Divided Highway Crossover will be made as follows:

(a) An initial payment of 75% of the Contract lump sum price will be paid when the temporary roadway is completed and accepted by the Engineer. The Engineer may prorate this amount for the duration of the work.

(b) The remaining 25% of the Contract lump sum price will be paid when the designated portions of the temporary roadway have been removed to the satisfaction of the Engineer.

When multiple sections or phases of temporary roadway are required on the Contract, at the Engineer's discretion, payment will be prorated proportional to the amount of the work covered by each section or phase.

Payment will be made under:

Pay Item		Pay Unit
240.0100001	Temporary Cover Pavement	Ton
240.0100002	Temporary Roadway Widening	Lump Sum
240.0100003	Temporary Traffic Diversion	Lump Sum
240.0100004	Divided Highway Crossover	Lump Sum

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

January 6, 2025

CENAE-RDNH/VT-62
Regulatory Division
File Number: NAE-2021-02773

Ms. Jessie Johnson
VTrans Biologist
Vermont Agency of Transportation
219 North Main Street
Barre, Vermont 05641
Sent by email: jessie.johnson@vermont.gov

Dear Ms. Johnson:

The U.S. Army Corps of Engineers (USACE) has reviewed your application to place fill in a total of about 5,100 sq. ft. (0.12 acre) of an unnamed stream and adjacent wetland in conjunction with the replacement of Bridges 55-2 and 55-3 with a new 9'6" x 18'0" concrete box culvert, on the same alignment, on Interstate 91 in Fairlee, Vermont. The work is shown on the enclosed plans, on twelve sheets, titled "FAIRLEE IM 091-2(91)" and dated "8-OCT-2024" and "10/8/2024".

Based on the information that you have provided, we verify that the activity is authorized under General Permit #18 of the enclosed December 6, 2022, federal permits known as the Vermont General Permits (GPs). The GPs are also available at https://www.nae.usace.army.mil/Missions/Regulatory/State-General-Permits/Vermont-General-Permit.

Please review the enclosed GPs carefully, in particular the general conditions beginning on page 27, and ensure that you and all personnel performing work authorized by the GPs are fully aware of and comply with its terms and conditions. A copy of the GPs and this verification letter shall be available at the work site as required by General Condition 27.

You must complete and return the enclosed Work Start Notification Form to this office before the anticipated start date. You must complete and return the enclosed Compliance Certification Form within one month following the completion of the authorized work.

This authorization presumes that the work as described above and as shown on your plans noted above is in waters of the U.S. If you wish, you may request an approved jurisdictional determination (which may be appealed), by contacting the USACE district for further instruction.

This authorization expires on December 6, 2027. You must commence or have under contract to commence the work authorized herein by December 6, 2027, and complete the work by December 6, 2028. If not, you must contact this office to determine the need for further authorization and we recommend you contact us *before* the work authorized herein expires. Please contact us immediately if you change the plans or construction methods for work in our jurisdiction as we must approve any changes before you undertake them. Performing work within our jurisdiction that is not specifically authorized by this determination or failing to comply with the special condition(s) provided above or all the terms and conditions of the GPs may subject you to the enforcement provisions of our regulations.

This authorization does not obviate the need to obtain other federal, state, or local authorizations required by law. Applicants are responsible for applying for and obtaining any other approvals.

We continually strive to improve our customer service. To better serve you, we would appreciate your completing our Customer Service Survey located at https://regulatory.ops.usace.army.mil/customer-service-survey.

Please contact Michael S. Adams of my staff at (802) 872-2893 or michael.s.adams@usace.army.mil if you have any questions.

Sincerely,

Frank J Del Giudice

Digitally signed by Frank J Del Giudice
Date: 2025.01.06 12:13:54 -05'00'

Frank J. DelGiudice
Chief, NH & VT Section
Regulatory Division

Enclosures

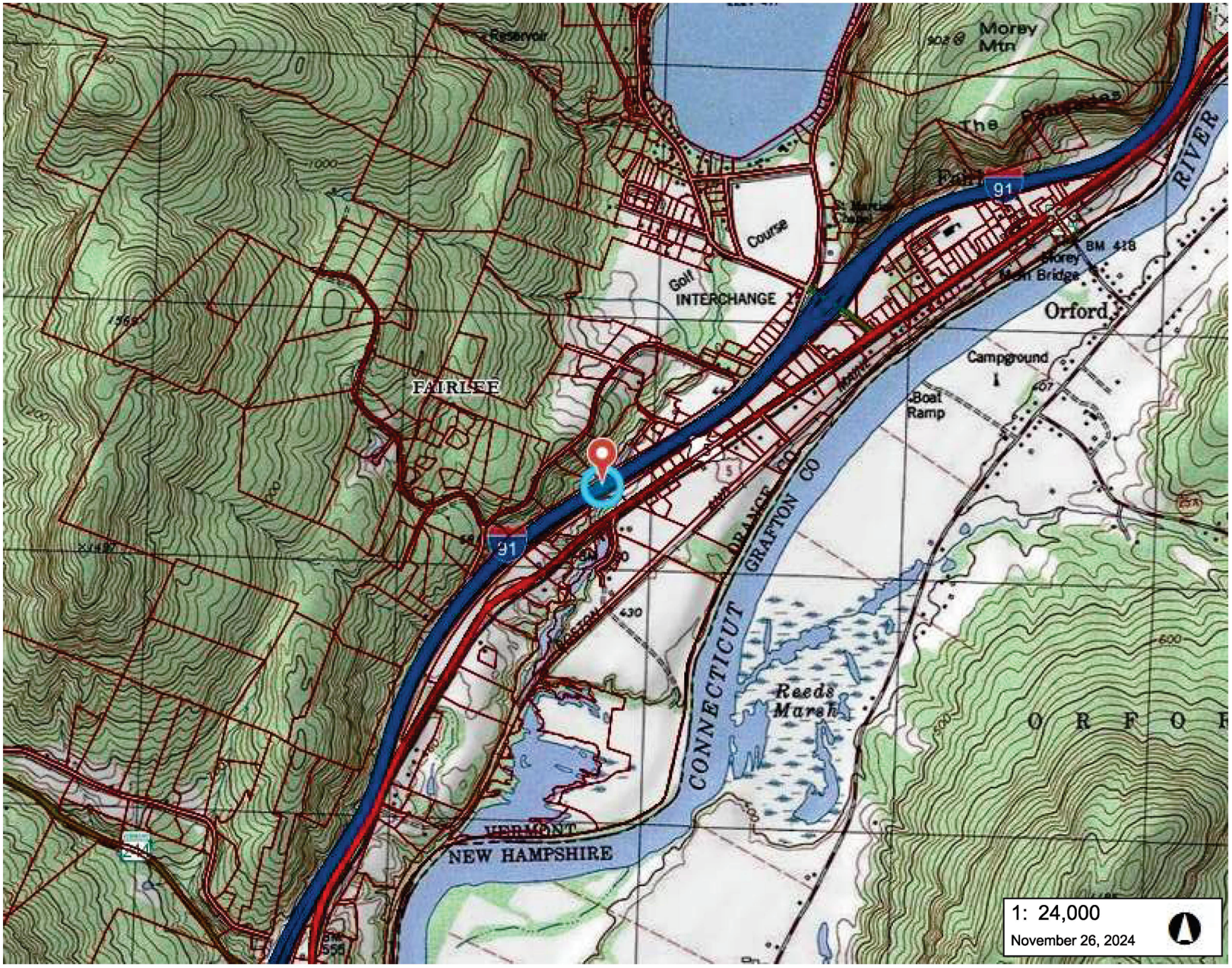
cc:
Mr. Jaron Borg, VT DEC, jaron.borg@vermont.gov
Ms. Jessie Johnson, VTrans, jessie.johnson@vermont.gov

VERMONT

FAIRLEE IM 091-2(91)

Vermont Agency of Natural Resources

vermont.gov





LEGEND

- Parcels (standardized)
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas

1,219.0 0 610.00 1,219.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 2000 Ft. 1cm = 240 Meters

© Vermont Agency of Natural Resources

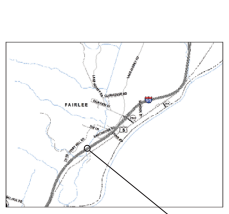
THIS MAP IS NOT TO BE USED FOR NAVIGATION

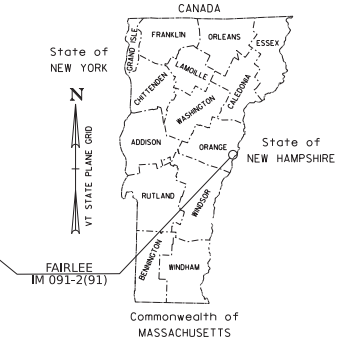
DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

REVIEWER NOTES:

1. CONSTRUCTION WILL TAKE PLACE OVER TWO CONSTRUCTION SEASONS.
2. EXISTING RIGHT-OF-WAY RESEARCH HAS NOT BEEN COMPLETED WITHIN THE LIMITS OF THE CROSSOVERS. IT IS ANTICIPATED THAT ALL WORK WILL TAKE PLACE WITHIN THE HIGHWAY RIGHT-OF-WAY.
3. NO UTILITIES ARE IMPACTED BY THIS PROJECT.
4. ANY STRUCTURAL ELEMENTS SHOWN IN THE PLANS ARE CONCEPTUAL AND THE FINAL DESIGN WILL BE BY THE FABRICATOR.
5. PAVEMENT DESIGN HAS NOT YET BEEN COMPLETED.

STATE OF VERMONT
AGENCY OF TRANSPORTATION





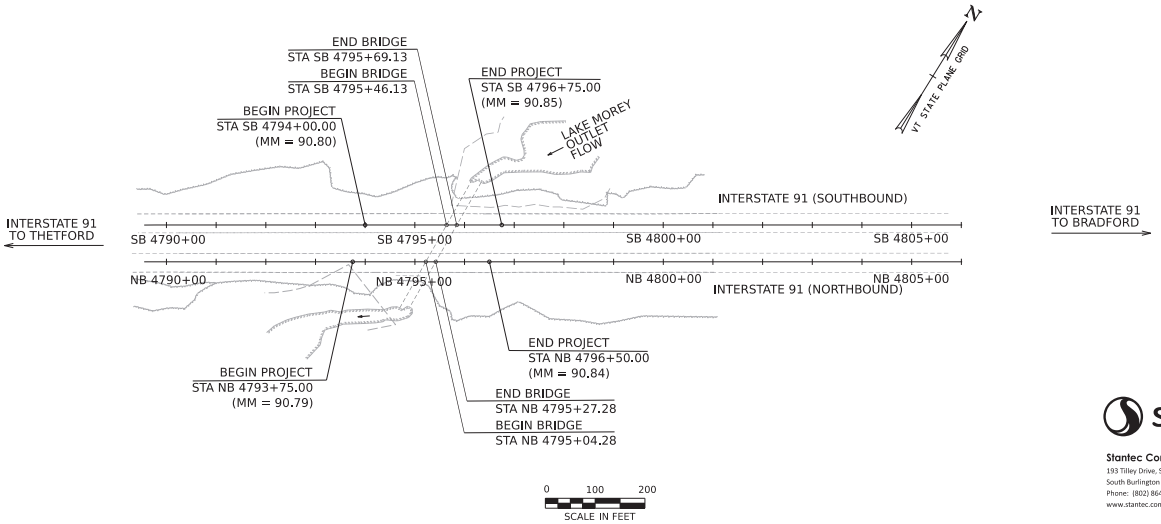
PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF FAIRLEE
COUNTY OF ORANGE
ROUTE NO: I-91 BRIDGES 55-2 & 55-3
(I-91 PRINCIPLE ARTERIAL - INTERSTATE)

PROJECT LOCATION : BRIDGES 55-2 AND 55-3 ARE LOCATED APPROXIMATELY 0.6 MILES SOUTH OF EXIT 15 ALONG INTERSTATE 91 (I-91).

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGES 55-2 AND 55-3 WITH A PRECAST CONCRETE STRUCTURE AND CONSTRUCTION OF TEMPORARY CROSSOVERS, ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

BRIDGE 55-2 SOUTHBOUND		BRIDGE 55-2 NORTHBOUND		TOTAL	
LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	46 FEET
LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	504 FEET
LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	550 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 1

SURVEYED BY : R. GILMAN
SURVEYED DATE : 06/13/2022

DATUM
VERTICAL NAVD88
HORIZONTAL NAD 83 (2011)

IMPACT PLANS
10/8/2024

Stantec
Stantec Consulting Services Inc.
193 Tilley Drive, Suite 1
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
www.stantec.com

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____
PROJECT MANAGER : ADAM GOUDREAU, P.E.
PROJECT NAME : FAIRLEE
PROJECT NUMBER : IM 091-2(91)
SHEET 1 OF 52 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (CULVERT)

Version
LRFD

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	CONVENTIONAL SYMBOLOGY LEGEND SHEET
4	ENVIRONMENTAL IMPACT PERMIT LEGEND
5 - 7	TYPICAL SECTION SHEETS 1-3
8	PROPOSED BORING LAYOUT SHEET
9 - 20	BORING LOG SHEETS 1-12
21	ORDINARY HIGH WATER IMPACTS
22	VT WETLAND IMPACTS
23	IMPERVIOUS SURFACES
24 - 30	EARTH DISTURBANCE SHEETS 1-7
31 - 32	TREE CLEARING SHEETS 1-2
33 - 40	EPSC - EXISTING CONDITIONS PLAN SHEETS 1-8
41 - 43	I91 NB XS SHEETS 1-3
44 - 46	I91 SB XS SHEETS 1-3
47 - 52	CHANNEL XS SHEETS 1-6

DETAIL SHEETS

HSD 213.01	MILLED RUMBLE STRIPS (SHOULDER)	2/27/2017
HSD 400.01	SAFETY EDGE DETAILS	1/5/2018
HSD 621.07A	MIDWEST GUARDRAIL SYSTEM (MGS)	1/4/2021
HSD 621.07B	W-BEAM GUARDRAIL COMPONENTS	4/17/2019
HSD 621.07C	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR	4/17/2019
HSD 621.07D	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD 621.07E	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD 621.07F	MIDWEST GUARDRAIL SYSTEM TRANSITION SECTION	1/4/2021

STANDARDS LIST

E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	04-07-2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-13	INLET PROTECTION DEVICE, TYPE I	04-07-2020
E-14	INLET PROTECTION DEVICE, TYPE III	04-07-2020
E-15	SILT FENCE	04-07-2020
E-130	TYPE "B" GUIDE SIGN, ATTACHMENT DETAILS	08-08-1995
E-161	W-SHAPED STEEL SIGN POST	08-18-1995
F-2	CHAIN LINK FENCE, TYPE I DETAILS	06-01-1994
F-4	CHAIN LINK FENCE, TYPE II DETAILS	06-01-1994
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	03-10-2017
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
S-500	CONCRETE DETAILS AND NOTES	02-15-2023
S-501	CONCRETE DETAILS AND NOTES	02-15-2023
S-600	STRUCTURAL DETAILS AND NOTES	02-15-2023
S-601	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	02-15-2023
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-11	CONSTRUCTION APPROACH SIGNING DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-12	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-13	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-06-2012
T-14	TRAFFIC CONTROL DIVIDED HIGHWAY ONE ROADWAY CLOSED	08-06-2012
T-15	TRAFFIC CONTROL DIVIDED HIGHWAY ONE ROADWAY CLOSED	08-06-2012
T-22	TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY	08-06-2012
T-23	TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	02-17-2022
T-31	CONSTRUCTION SIGN DETAILS	08-06-2012
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08-06-2012
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08-06-2012
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-43	FREEWAY - EXPRESSWAY DELINEATOR PLACEMENT	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013
T-55	SIGN PLACEMENT EXPRESSWAY & FREEWAY	10-26-2015

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: 3/4/2024

DRAINAGE AREA : 8.4 square miles
CHARACTER OF TERRAIN : Mixed forested and open land with Lake Morey just upstream
STREAM CHARACTERISTICS : Meandering low gradient valley bottom stream
NATURE OF STREAMBED : Silt, sand and gravel

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% =	160 cfs	2% =	500 cfs
10% =	320 cfs	1% =	580 cfs
4% =	420 cfs	0.2% =	680 cfs

NATURAL STREAM VELOCITY : N/A
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? Yes - D/S
IF YES, DESCRIBE: Tailwater conditions due to the mild gradient and US5 Bridge 90: 7-ft by 7-ft RCB constriction.

WATERSHED STORAGE: 10.8% HEADWATERS:
UNIFORM:
IMMEDIATELY ABOVE SITE: Lake Morey

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: (2) 7-ft CGMPP
YEAR BUILT: 1971
CLEAR SPAN(NORMAL TO STREAM): 2 @ 7-ft diameter
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY OF FULL OPENING: Total = 77 sqft
DISPOSITION OF STRUCTURE: Replacement
TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:

50% AEP =	404.2 ft	VELOCITY =	3.5 fps
10% AEP =	406.9 ft	"	4.3 fps
4% AEP =	409.6 ft	"	5.5 fps
2% AEP =	411.9 ft	"	6.5 fps
1% AEP =	414.3 ft	"	7.6 fps

LONG TERM STREAMBED CHANGES: No

IS THE EXISTING BRIDGE ON THE VTRANS SCOUR CRITICAL LIST? N/A

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None
BRIDGE LOW CHORD ELEVATION: N/A

UPSTREAM STRUCTURE

TOWN: Fairlee — DISTANCE: 1000 ft
HIGHWAY # : TH-14 — STRUCTURE #: Culv ID 3
CLEAR SPAN: 6-ft — CLEAR HEIGHT: 6-ft
YEAR BUILT: unknown — FULL WATERWAY: 28.3 sqft
STRUCTURE TYPE: 6-ft corrugated metal pipe

DOWNSTREAM STRUCTURE

TOWN: Fairlee — DISTANCE: 450 ft
HIGHWAY # : US5 — STRUCTURE #: Bridge 90
CLEAR SPAN: 7-ft — CLEAR HEIGHT: 7-ft
YEAR BUILT: 1939 — FULL WATERWAY: 49 sqft
STRUCTURE TYPE: Reinforced Concrete Box

ADDITIONAL INFORMATION

PROPOSED STRUCTURE

STRUCTURE TYPE: 18.0 ft x 9.5 ft - Reinforced Concrete Box

CLEAR SPAN(NORMAL TO STREAM): 18.0 ft
VERTICAL CLEARANCE ABOVE STREAMBED: 7.5 ft (9.5 ft height embedded 2 ft)
WATERWAY OF FULL OPENING: 135 sqft

WATER SURFACE ELEVATIONS AT:

50% AEP =	403.2 ft	VELOCITY=	2.2 fps
10% AEP =	405.6 ft	"	2.7 fps
4% AEP =	407.0 ft	"	3.1 fps
2% AEP =	408.5 ft	"	3.7 fps
1% AEP =	409.8 ft	"	4.3 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None

BRIDGE LOW CHORD ELEVATION: N/A
FREEBOARD: N/A

SCOUR: N/A the proposed is a reinforced concrete box culvert

REQUIRED CHANNEL PROTECTION: E-Stone Type II-streambed;Stone Fill Type II-banks

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A
CLEAR SPAN (NORMAL TO STREAM): -
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY AREA OF FULL OPENING: -

ADDITIONAL INFORMATION

Tailwater conditions for the existing and proposed structures are controlled by US5 Bridge 90.

CALCULATIONS BY: PJR
CHECKED BY: KRF

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A, STR.	4A, STR.	5A, SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER						

CULVERT DESIGN CRITERIA

1. PROPOSED CULVERT IS A PRECAST CONCRETE STRUCTURE (18'-0" X 9'-6" X 256'-0" BOX).
2. CULVERT ENDS ARE NOT SKEWED.
3. CULVERT WILL BE SET AT A SLOPE OF 0.54 IN. ON 10 FT.
4. CULVERT WILL REQUIRE FISH PASSAGE ACCOMODATIONS
5. CULVERT CONSTRUCTION WILL REQUIRE A TEMPORARY PIPE

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_p:	3.0 INCH
3. CULVERT OPENING	D:	18.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5. PRESTRESSING STRAND	f_y:	---
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	---
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c:	---
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c:	---
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'_c:	---
11. CONCRETE, CLASS C	f'_c:	---
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270	f_y:	---
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18. PILE RESISTANCE FACTOR	ϕ:	---
19. LATERAL PILE DEFLECTION	Δ:	---
20. BASIC WIND SPEED	V_{3s}:	---
21. MINIMUM GROUND SNOW LOAD	p_g:	---
22. SEISMIC DATA	PGA: ---	S_s: ---
		S_1: ---
23.		---
24.		---
25.		---
26.		---

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2025	5300	880	0	4.2	100
2045	5900	980	0	5.8	600

20 year ESAL for flexible pavement from 2025 to 2045 : 0
40 year ESAL for flexible pavement from 2025 to 2065 : 0
Design Speed : 70 mph

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024PI_env.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
PRELIMINARY INFORMATION SHEET

PLOT DATE: 8-OCT-2024
DRAWN BY: P. ARMATA
CHECKED BY: J. GRIGAS

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⊡	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6F — 6F — 6F PROPERTY BOUNDARY
- 4F — 4F — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- Ⓗ HISTORIC STRUCTURE

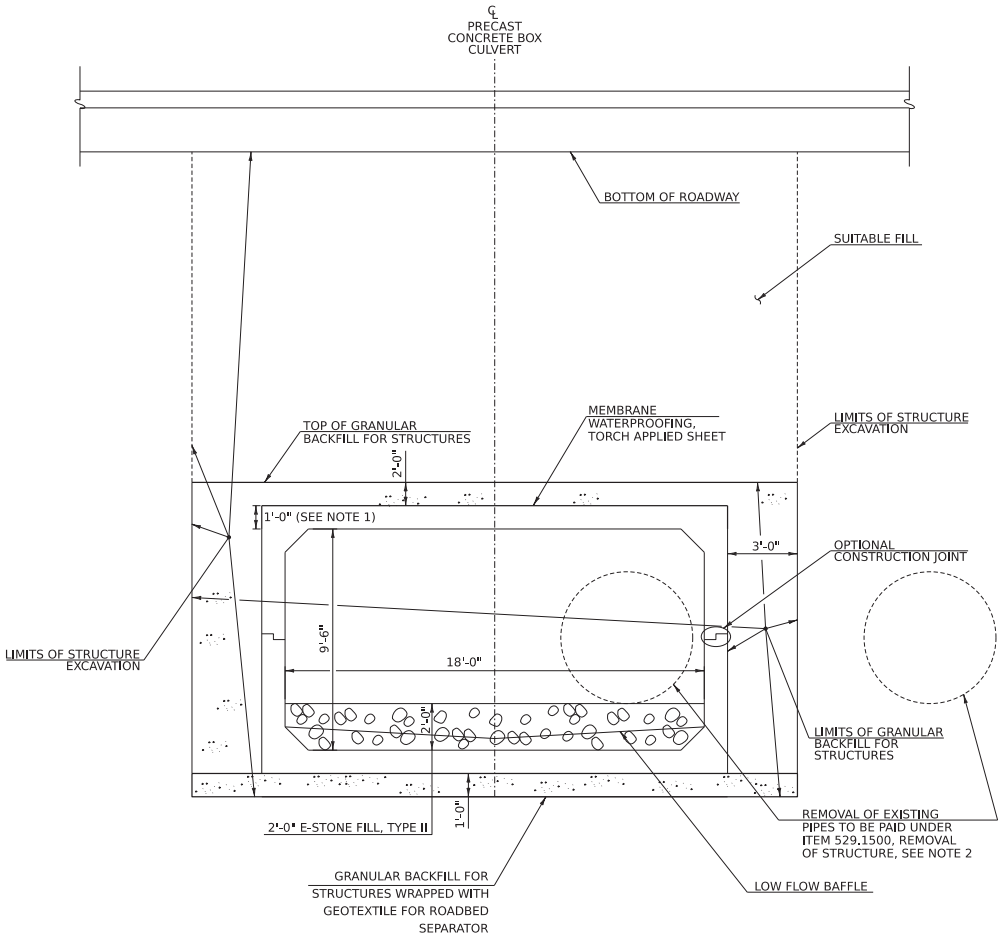
CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024symb.dgn	PLOT DATE: 10/8/2024
PROJECT LEADER: VTrans	DRAWN BY: VTrans
DESIGNED BY: VTrans	CHECKED BY: VTrans
CONVENTIONAL SYMBOLOGY LEGEND SHEET	SHEET 3 OF 52

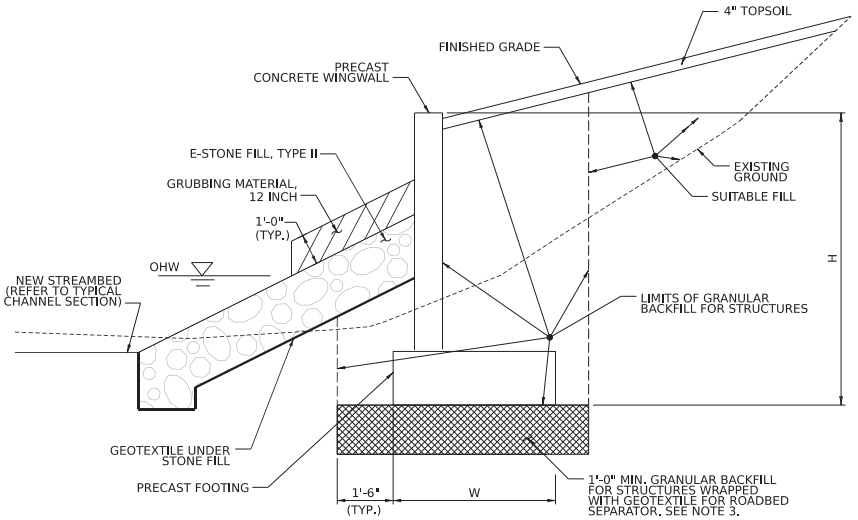


PRECAST CONCRETE BOX TYPICAL SECTION

SCALE ⅜" = 1'-0"

NOTES:

1. MEMBRANE WATERPROOFING, TORCH APPLIED SHEET SHALL BE APPLIED ACROSS THE TOP OF THE BOX AND 1'-0" ON EACH SIDE.
2. THE EXISTING PIPE OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION MAY BE FILLED WITH CONTROLLED DENSITY FLOWABLE FILL INSTEAD OF REMOVAL. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 529.1500, REMOVAL OF STRUCTURE.

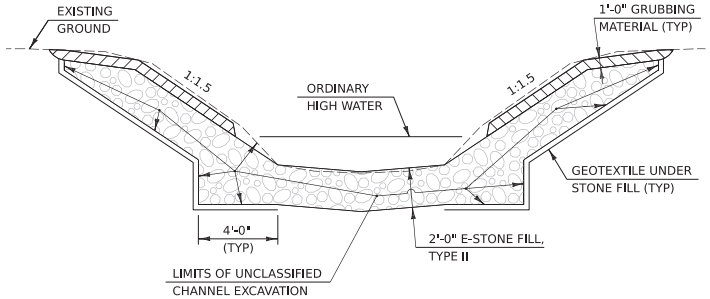


WINGWALL EARTHWORK SECTION

NOT TO SCALE

NOTES:

1. CANTILEVER WALLS SHOWN, OTHER APPROVED WALL SYSTEMS MAY BE USED.
2. FOR THE PURPOSES OF ESTIMATING EARTHWORK QUANTITIES IT HAS BEEN ASSUMED THAT W = 0.6 x H.
3. IF LOOSE OR SOFT SOILS ARE ENCOUNTERED, THE EXISTING MATERIALS SHALL BE UNDERCUT AN ADDITIONAL 12" AND A GEOTEXILE MEETING THE REQUIREMENTS OF SECTION 649 FOR GEOTEXTILE FOR ROAD BED SEPARATOR, SHALL BE PLACED ON THE EXCAVATED SURFACE AND BACKFILLED WITH CRUSHED STONE BEDDING.



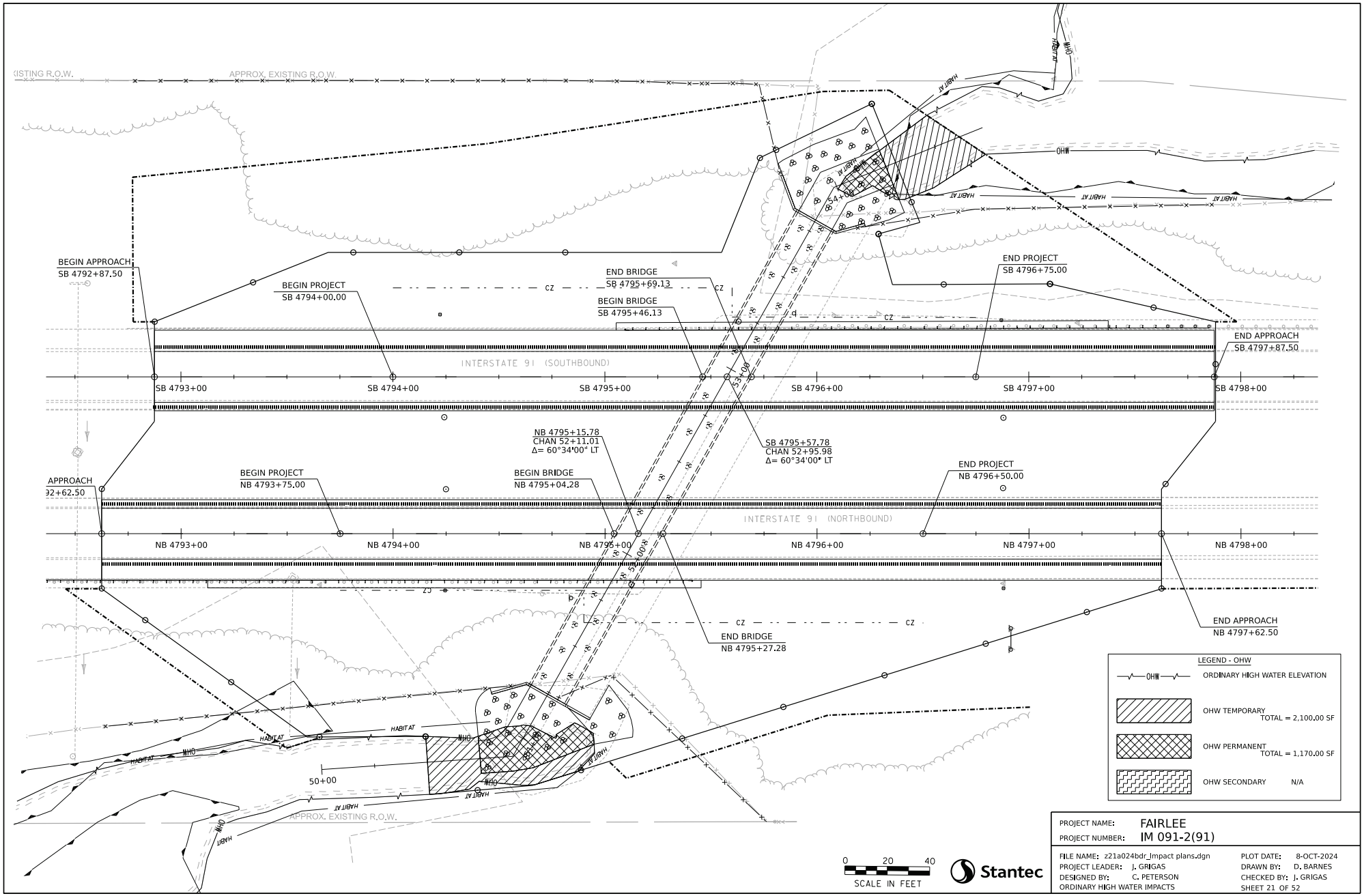
TYPICAL CHANNEL SECTION

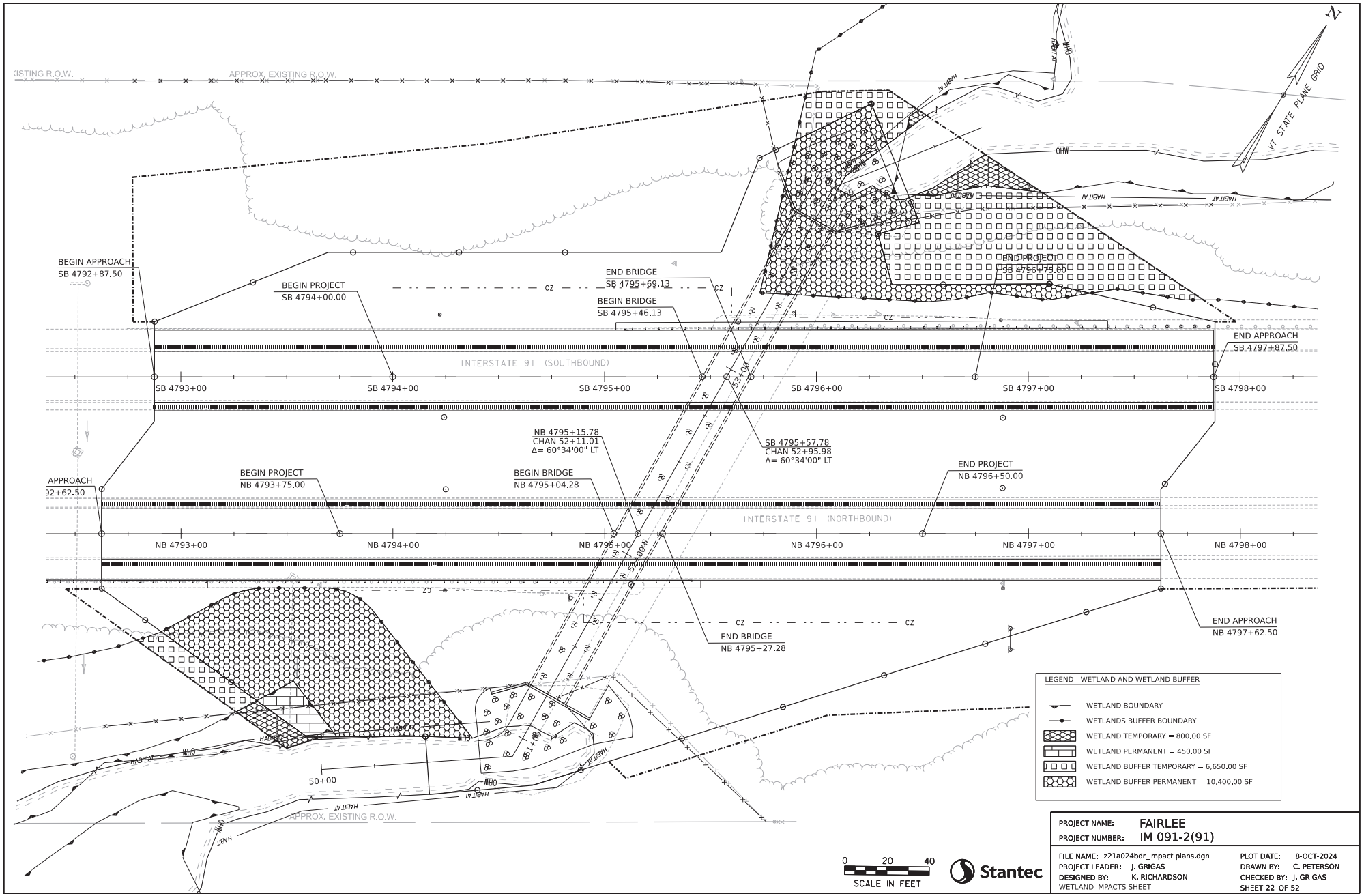
(NOT TO SCALE)

1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
2. THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.

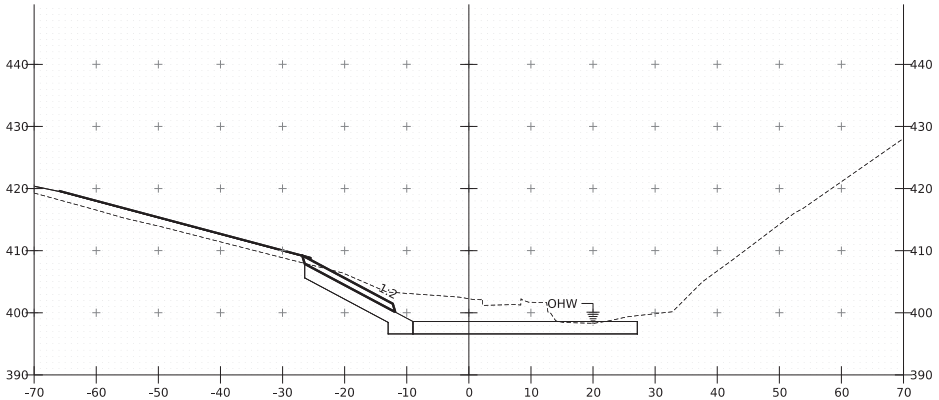
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 10/8/2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 3	SHEET 7 OF 52


APPROX. EXISTING R.O.W.
APPROX. EXISTING R.O.W.
BEGIN APPROACH
SB 4792+87.50
BEGIN PROJECT
SB 4794+00.00
END BRIDGE
SB 4795+69.13
BEGIN BRIDGE
SB 4795+46.13
END PROJECT
SB 4796+75.00
END APPROACH
SB 4797+87.50
INTERSTATE 91 (SOUTHBOUND)
SB 4793+00
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
NB 4795+15.78
CHAN 52+11.01
Δ= 60°34'00" LT
SB 4795+57.78
CHAN 52+95.98
Δ= 60°34'00" LT
APPROACH
92+62.50
BEGIN PROJECT
NB 4793+75.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+50.00
INTERSTATE 91 (NORTHBOUND)
NB 4793+00
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
END BRIDGE
NB 4795+27.28
END APPROACH
NB 4797+62.50
CZ
OHW
HABITAT
50+00
APPROX. EXISTING R.O.W.
LEGEND - OHW
OHW ORDINARY HIGH WATER ELEVATION
OHW TEMPORARY TOTAL = 2,100.00 SF
OHW PERMANENT TOTAL = 1,170.00 SF
OHW SECONDARY N/A
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: C. PETERSON
ORDINARY HIGH WATER IMPACTS
PLOT DATE: 8-OCT-2024
DRAWN BY: D. BARNES
CHECKED BY: J. GRIGAS
SHEET 21 OF 52

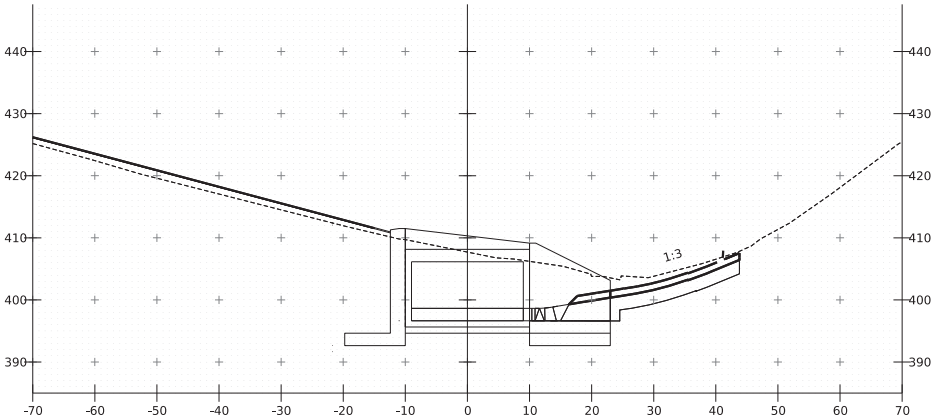


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_lmpact plans.dgn	PLOT DATE: 8-OCT-2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: C. PETERSON
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
WETLAND IMPACTS SHEET	SHEET 22 OF 52



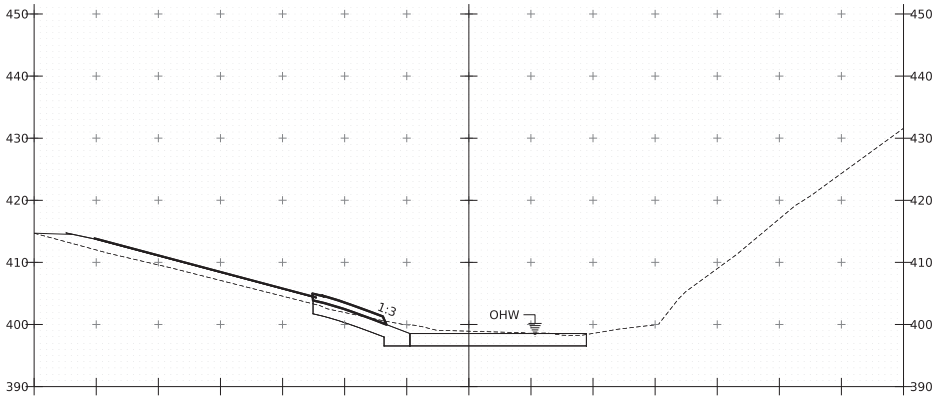
51+10.00

STA 51+23.00 LT/RT
END CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
E-STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN

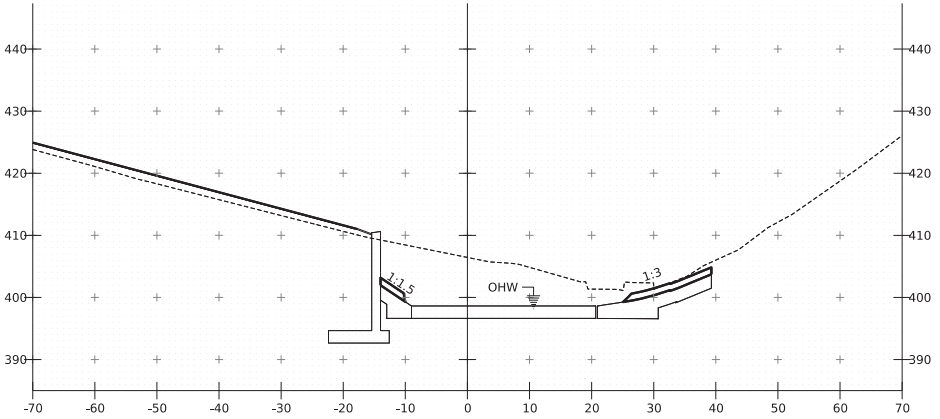


51+23.00

STA 51+14.00 RT
BEGIN GEOTEXTILE UNDER STONE FILL
GRUBBING MATERIAL, 12 IN



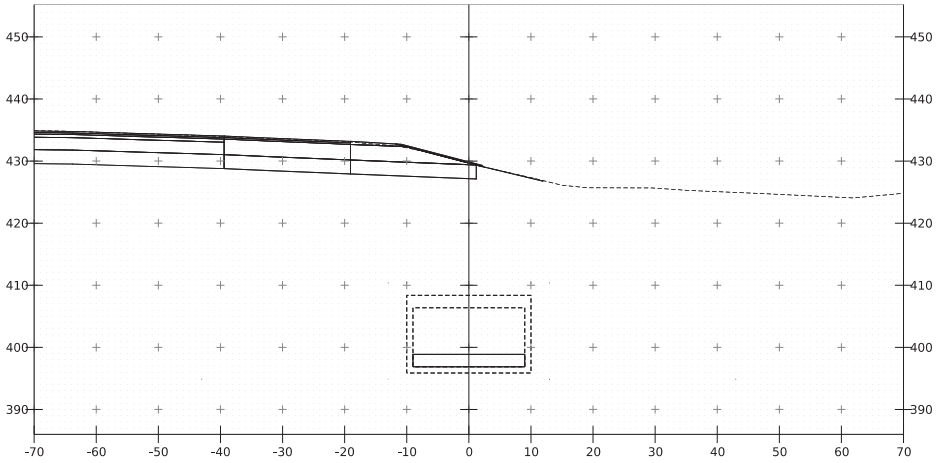
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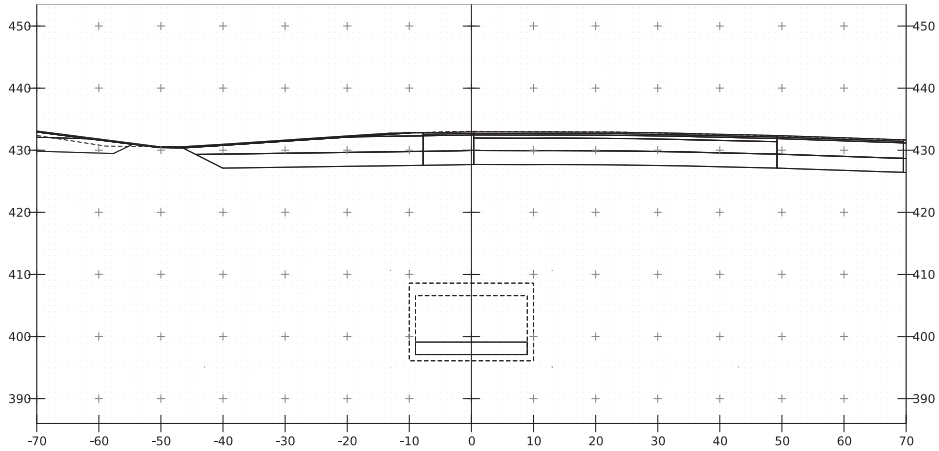
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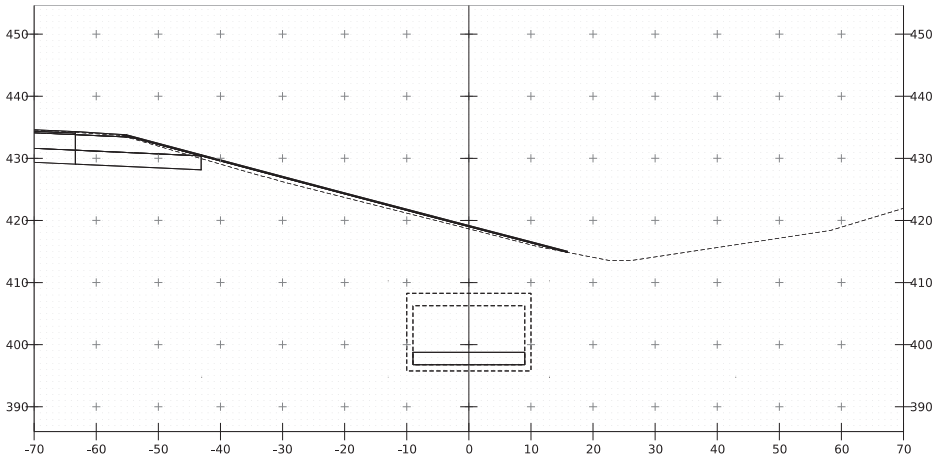
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 10/8/2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
CHANNEL XS SHEET 2	SHEET 48 OF 52



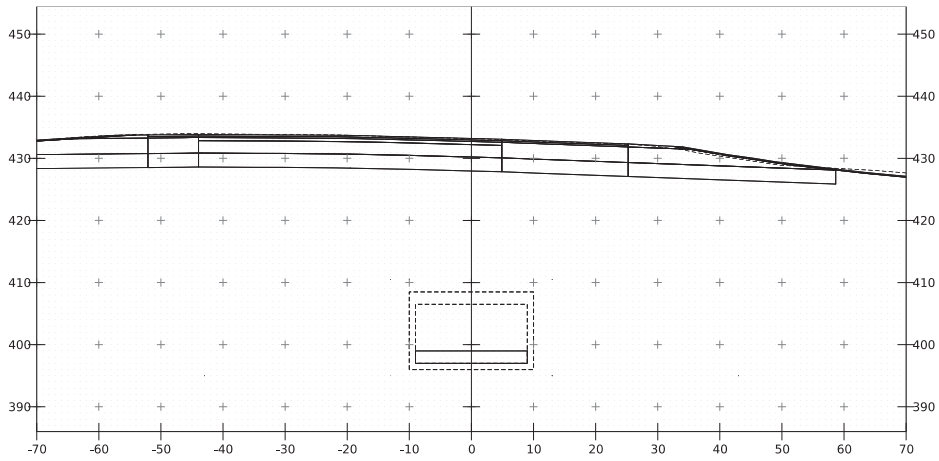
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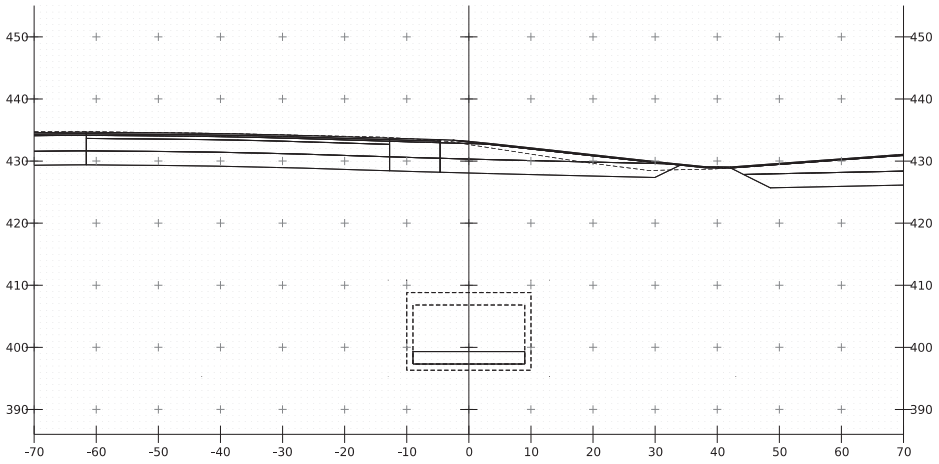
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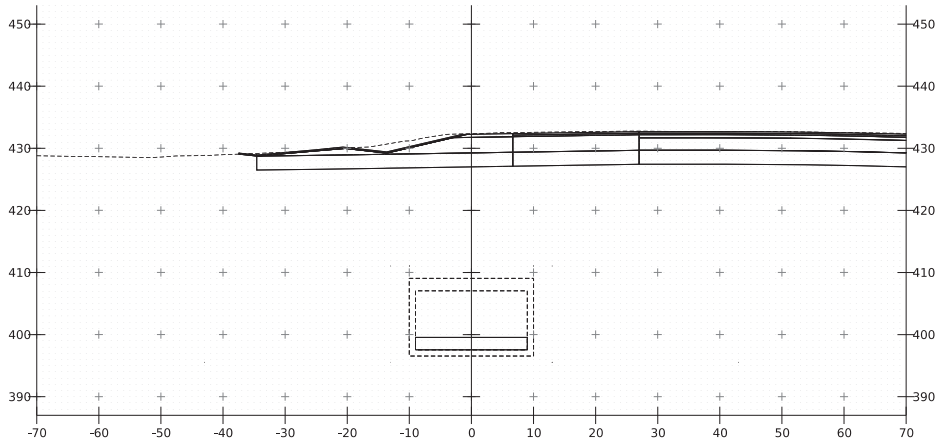
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PROJECT NUMBER:	IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 3

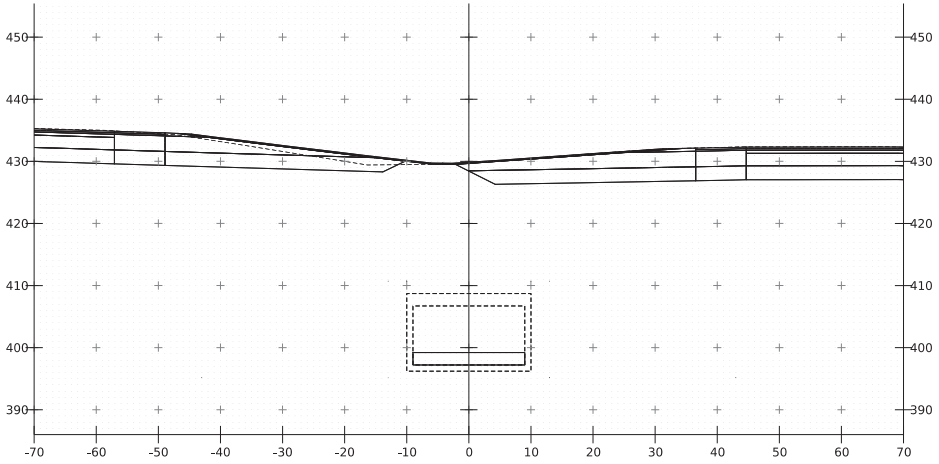
PLOT DATE: 10/8/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 49 OF 52



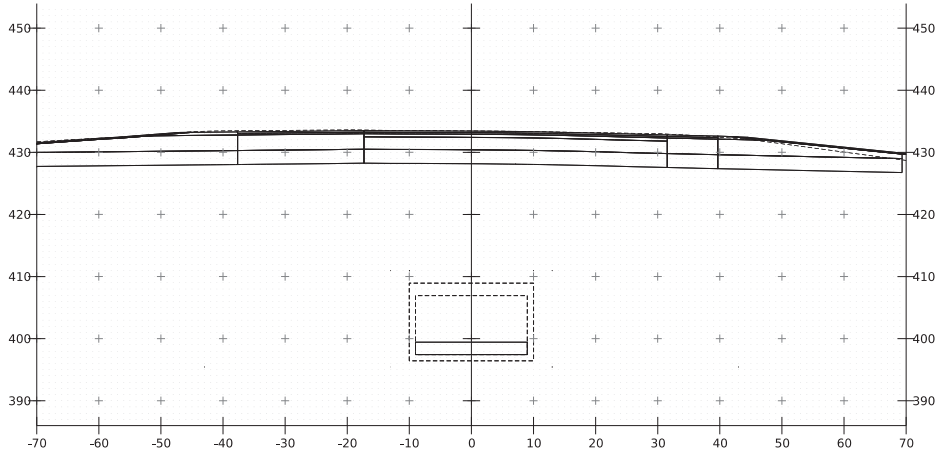
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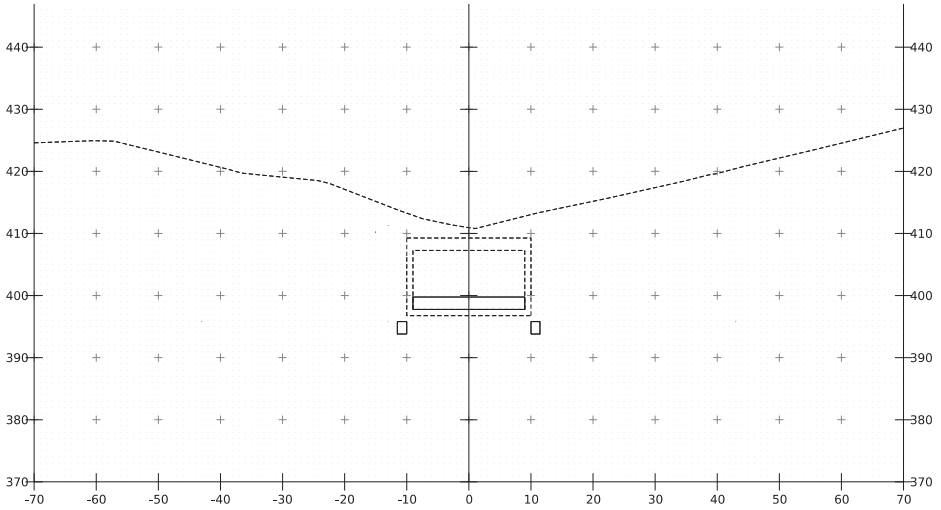
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PROJECT NUMBER:	IM 091-2(91)

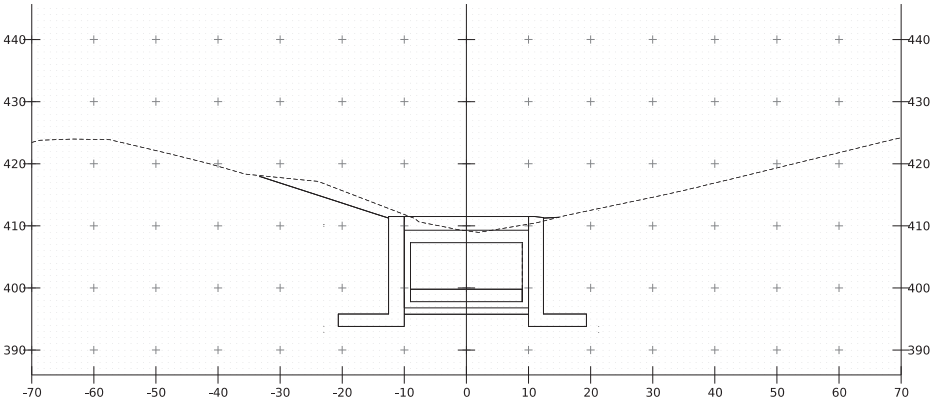
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PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
CHANNEL XS SHEET 4

PLOT DATE: 10/8/2024
DRAWN BY: P.ARMATA
CHECKED BY: J. GRIGAS
SHEET 50 OF 52

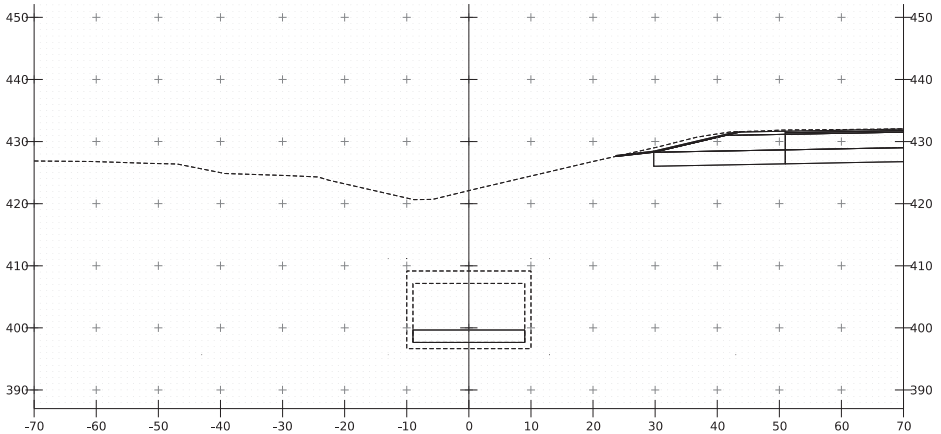


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BEGIN CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
E- STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN



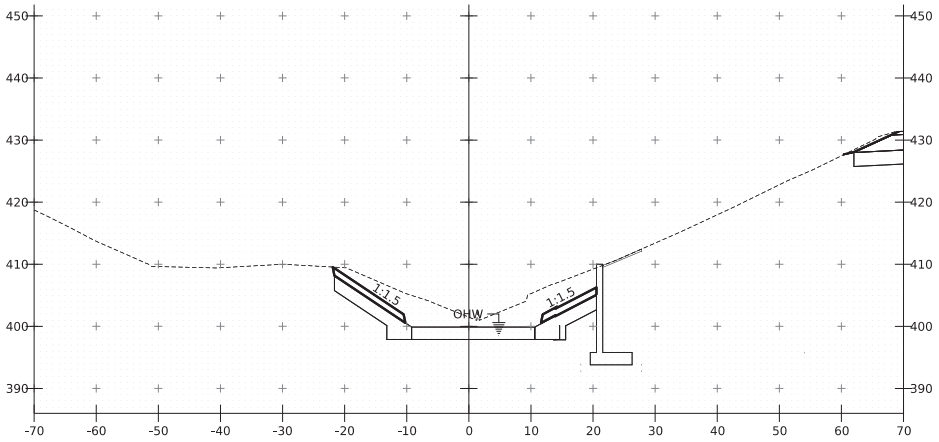
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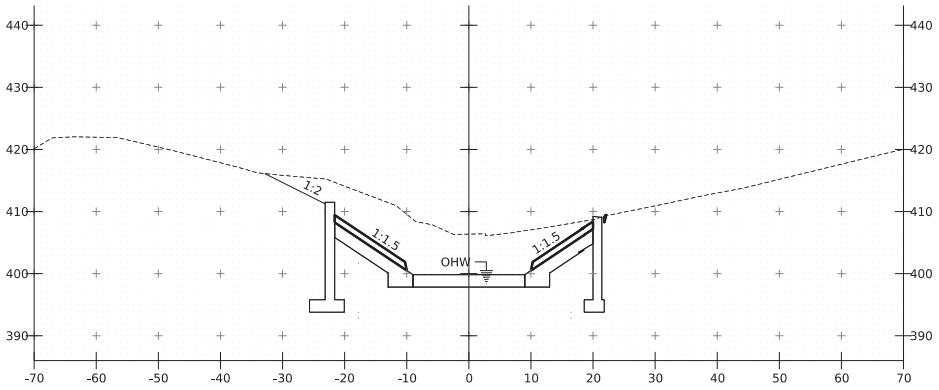
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Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 10/8/2024
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
CHANNEL XS SHEET 5	SHEET 51 OF 52

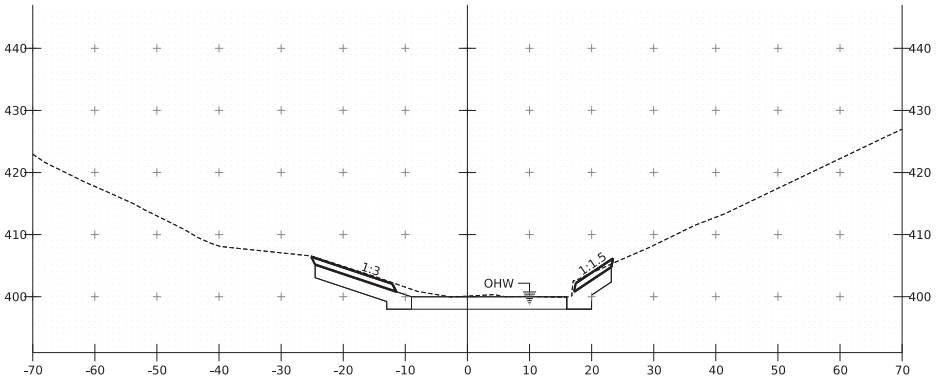


54+00.00



53+90.00

STA 54+25.00 LT/RT
END CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
E-STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN



54+25.00

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME:	21a024_xs_Channel.dgn	PLOT DATE:	10/8/2024
PROJECT LEADER:	J. GRIGAS	DRAWN BY:	P.ARMATA
DESIGNED BY:	K. RICHARDSON	CHECKED BY:	J. GRIGAS
CHANNEL XS SHEET 6		SHEET 52 OF 52	

US Army Corps of Engineers ®
New England District

WORK START NOTIFICATION FORM

****

* EMAIL TO: michael.s.adams@usace.army.mil *
* or *
* MAIL TO: U.S. Army Corps of Engineers, New England District *
* Vermont Project Office *
* 11 Lincoln Street, Room 210 *
* Essex Junction, Vermont 05452 *

****

Corps of Engineers File No. NAE-2021-02773 was issued to Vermont Agency of Transportation. The permit authorized the permittee to place fill in a total of about 5,100 sq. ft. (0.12 acre) of an unnamed stream and adjacent wetland in conjunction with the replacement of Bridges 55-2 and 55-3 with a new 9'6" x 18'0" concrete box culvert, on the same alignment, on Interstate 91 in Fairlee, Vermont.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

PLEASE PRINT OR TYPE

Name of Contractor/Firm: _____

Business Address: _____

_____

_____

Telephone Numbers: (____) _____ (____) _____

Proposed Work Dates: **Start** _____ **Finish** _____

Permittee's Signature: _____

Date: _____

Printed Name: _____ **Title:** _____

****

FOR USE BY THE CORPS OF ENGINEERS

PM: Michael Adams **Submittals Required:** __No__

Inspection Recommendation: _____

_____

US Army Corps of Engineers ®
New England District

(Minimum Notice: Permittee must sign and return notification within one month of the completion of work.)

COMPLIANCE CERTIFICATION FORM

USACE File Number: NAE-2021-02773

Name of Permittee: Vermont Agency of Transportation/Fairlee

Verification Date: January 6, 2025

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

EMAIL TO: michael.s.adams@usace.army.mil
or
MAIL TO: U.S. Army Corps of Engineers, New England District
Vermont Project Office
11 Lincoln Street, Room 210
Essex Junction, Vermont 05452

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.

Signature of Permittee _____ Date _____

Printed Name _____ Date of Work Completion _____

Telephone Number _____

General Permit No.: NAE-2022-00024 Effective Date: December 6, 2022
Applicant: General Public in the State of Vermont Expiration Date: December 6, 2027

DEPARTMENT OF THE ARMY GENERAL PERMITS FOR THE STATE OF VERMONT

The New England District of the U.S. Army Corps of Engineers (USACE) hereby issues twenty-one (21) regional general permits (GPs) for activities subject to USACE jurisdiction in waters of the United States (WOTUS), including navigable waters, within the boundaries of the state of Vermont. These GPs are issued in accordance with USACE regulations at 33 CFR 320–332 (see 33 CFR 325.2(c)(1)). These GPs will provide protection to the aquatic environment and the public interest while effectively authorizing activities that have no more than minimal individual and cumulative adverse environmental effects.

This document contains the following sections: **Page**

SECTION I.	JURISDICTION/AUTHORITY TO ISSUE PERMITS	2
SECTION II.	REVIEW CATEGORIES AND APPLICATION PROCEDURES	2-4
SECTION III.	GENERAL PERMITS	4-26
SECTION IV.	GENERAL CONDITIONS	27-38
SECTION V.	CONTACTS	39
SECTION VI.	DEFINITIONS	40-44

In issuing these GPs, the Federal Government does not assume any liability for the following: (a) damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes; (b) damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the U.S. in the public interest; (c) damages to persons, property or to other permitted or unpermitted activities or structures caused by the activity authorized by any of the GPs; (d) design or construction deficiencies associated with the permitted work; or (e) damage claims associated with any future modification, suspension or revocation of these permits.

Tammy R. Turley
Tammy R. Turley
Chief, Regulatory Division

December 6, 2022
Date

SECTION I. JURISDICTION/AUTHORITY TO ISSUE PERMITS

1. A Department of the Army Permit is required from USACE for the following regulated activities:

a. The construction of any structure in, over, or under any navigable water of the U.S. (see 33 CFR 328), the excavating or dredging from or depositing of material in such waters, or the accomplishment of any other work affecting the course, location, condition, or capacity of such waters. The USACE regulates these activities under Section 10 of the Rivers and Harbors Act of 1899 (see 33 CFR 322); and

b. The discharge of dredged or fill material and certain discharges associated with excavation into WOTUS including wetlands. The USACE regulates these activities under Section 404 of the Clean Water Act (see 33 CFR 323).

2. Related laws: 33 CFR 320.3 includes a list of related laws including, but not limited to, Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408, "Section 408"), Section 401 of the Clean Water Act, Section 402 of the Clean Water Act, Section 307(c) of the Coastal Zone Management Act of 1972, Section 106 of the National Historic Preservation Act of 1966, Section 7 of the Endangered Species Act, the Fish and Wildlife Coordination Act of 1956, the Magnuson-Stevens Fishery Conservation and Management Act, Section 302 of the Marine Protection, Research and Sanctuaries Act of 1972, and Section 7(a) of the Wild and Scenic Rivers Act.

3. In order for an authorization under these GPs to be valid, a Water Quality Certification (WQC) under Section 401 of the CWA (33 USC 1341) or waiver thereof must be obtained from the Vermont Agency of Natural Resources (VT ANR), Watershed Management Division prior to the commencement of work in USACE jurisdiction. The VT ANR has granted an Individual WQC for all activities authorized under these GPs provided those activities meet the criteria as contained in these GPs and USACE notifies VT ANR of projects obtaining written verification under these GPs. The VT ANR will respond within the same response times required of the Federal resource agencies.

SECTION II. REVIEW CATEGORIES AND APPLICATION PROCEDURES

1. In order for activities to qualify for these GPs, they shall meet the terms and conditions of this document, including the eligibility criteria listed in Section III and the general conditions (GCs) listed in Section IV. The USACE will consider any activity requiring USACE authorization to be unauthorized if that activity is under construction or completed and does not comply with all of the terms and conditions of the GPs. The USACE will evaluate unauthorized activities for enforcement action under 33 CFR part 326. Any activity not specifically listed may still be eligible for authorization under these GPs; prospective permittees are advised to contact USACE for specific eligibility determinations.

2. Project proponents are encouraged to contact the USACE Vermont Project Office (VPO) with questions at any time (mailing address: 11 Lincoln Street, Room 210, Essex Junction, Vermont 05452; email: cenae-r-vt@usace.army.mil; phone: (802) 872-2893). Pre-application meetings (see 33 CFR 325.1(b)), whether arranged by USACE or requested by applicants, are encouraged to facilitate the review of projects. Pre-application meetings and/or site visits can help streamline the permit process by alerting the applicant to potentially time-consuming concerns that may arise during the evaluation

of a project (e.g., avoidance, minimization and compensatory mitigation requirements, historic properties, and endangered species).

3. Federal and state jurisdiction may differ in some instances. Applicants are responsible for applying for and obtaining all required federal, state or local approvals (see GC 1). A permit from USACE may be required for specific activities regardless of state of Vermont jurisdiction.

These GPs may also be used to authorize projects that are not regulated by the state of Vermont.

4. How to Obtain/Apply for Authorization:

Project proponents must read each GP and the GCs to see if an activity is eligible for authorization.

a. Self-Verification (SV):

May proceed without application or notification to USACE provided the project proponent verifies that the activity will meet the terms and conditions of applicable GPs. Project proponents shall comply with other federal laws such as the National Historic Preservation Act (NHPA), the Endangered Species Act (ESA) and the Wild and Scenic Rivers Act (WSRA). Consultation with outside experts, such as the State Historic Preservation Officer (SHPO), federally-recognized tribes in the state of Vermont (Tribal Historic Preservation Officers, or THPOs), National Park Service (NPS), and the U.S. Fish and Wildlife Service (USFWS) listed in Appendix V may also be necessary. The USACE relies on the VT ANR Environmental Notice Bulletin (ENB) for notification of SV projects, as applicable.

b. Pre-Construction Notification (PCN):

i. For activities that do not qualify for SV, the applicant must submit a PCN to obtain written verification from USACE before starting work in USACE jurisdiction. Digital submissions are encouraged and preferred and can be submitted directly to USACE staff by email, or at cenae-r-vt@usace.army.mil. Applicants must submit at least the following information:

- A completed USACE application form (ENG Form 4345[1]).
- Plans that illustrate the proposed work in reference to the limits of USACE jurisdiction as applicable. Plans should show existing and proposed conditions and contain all other appropriate information.
- Federal wetland delineation documentation (i.e., Wetland Determination Data Forms).
- Any information on federally listed endangered and threatened species and critical habitat that occur or may occur in the project area (See GC 12).
- Any correspondence with the SHPO and THPOs indicating coordination with these entities to ensure compliance with GC 11. Applicants are encouraged to submit a copy of their application materials to the SHPO and the THPOs, at the

[1] Located at www.nae.usace.army.mil/regulatory under "Useful Documents, Forms and Publications."

same time, or before, they apply to USACE to be reviewed for the presence of historic, archaeological or tribal resources in the permit area that the proposed work may affect.

The USACE will coordinate review of all PCN activities with the interagency review team (IRT) comprised of federal and state agencies and federally recognized tribes to ensure that the proposed activity results in no more than a minimal impact to the aquatic environment. This may require project modifications involving avoidance, minimization, and/or compensatory mitigation for unavoidable impacts to ensure the net effects of a project are minimal.

ii. Emergency Situations: Contact USACE immediately in the event of an emergency to obtain information on the verification process and coordination requirements. The USACE regulation at 33 CFR 325.2(e)(4) states that "an "emergency" is a situation which would result in an unacceptable hazard to life, a significant loss of property, or an immediate, unforeseen and significant economic hardship if corrective action requiring a permit is not undertaken within a time period less than the normal time needed to process the application under standard procedures." Emergency work is subject to the same terms and conditions of these GPs as non-emergency work, and similarly, must qualify for authorization under these GPs; otherwise, an individual permit (IP) shall be required. Upon notification, USACE will determine if a project qualifies for emergency procedures under the GPs and whether work may proceed prior to submittal of an application. Where an application is required, USACE staff will work with all applicable agencies to expedite verification according to established procedures in emergency situations.

5. Projects that are not authorized by these GPs require an IP (33 CFR 325.5(b)) and project proponents must submit an application directly to USACE. These GPs do not affect the USACE IP review process or activities exempt from USACE permit requirements. The USACE retains discretionary authority on a case-by-case basis to elevate an SV to PCN or an IP, or a PCN to an IP based on concerns for the aquatic environment or for any other factor of the public interest (33 CFR 320.4(a)). Whenever USACE notifies an applicant that a PCN or IP is required, no work in USACE jurisdiction may be conducted until USACE issues the required authorization in writing indicating that work may proceed. For IPs, an individual 401 WQC or waiver is required from the VT ANR. Contact the VT ANR for procedures on how to apply for a WQC.

SECTION III. GENERAL PERMITS

An activity listed below may be authorized by these GPs only if that activity and the permittee satisfy all of the GP's terms and conditions. Any activity not specifically listed below may still be eligible for the GPs; prospective permittees are advised to contact USACE for specific eligibility determinations.

"Permanent impacts" means WOTUS that are permanently affected by filling, flooding, excavation, drainage or clearing because of the regulated activity. Permanent impacts include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. Temporary impacts include, but are not limited to, WOTUS that are temporarily filled, flooded, excavated, drained or cleared because of the regulated activity. Temporary

impacts are usually associated with construction activities and often involve the placement of cofferdams and construction mats. These fills are removed when construction is completed. Pilings and associated structures do not ordinarily constitute a discharge of fill material. Impacts resulting from activities eligible for exemptions under §404(f) of the CWA are not considered when calculating the impact area.

Vermont General Permits

1. Aids to navigation
2. Repair or maintenance of existing currently serviceable, authorized or grandfathered structures/fills and removal of structures and fills
3. Moorings
4. Pile-supported structures and floats, including boat lifts/hoists and other miscellaneous structures, temporary recreational structures and work
5. Boat ramps and marine railways
6. Utility line activities
7. Dredging, beach nourishment, rock and debris removal and rock relocation
8. U.S. Coast Guard Approved Bridges
9. Shoreline and bank stabilization projects
10. Aquatic habitat restoration, establishment and enhancement activities
11. Fish and wildlife harvesting activities
12. Oil spill and hazardous material cleanup
13. Cleanup of hazardous and toxic waste
14. Scientific measurement devices
15. Survey activities
16. Energy generation and renewable energy generation facilities and hydropower projects
17. New/expanded developments and recreational facilities
18. Linear transportation projects and stream/wetland crossings
19. Mining activities
20. Temporary fill not associated with any other GP activities
21. Agricultural activities

GP 1. AIDS TO NAVIGATION (Section 10): The placement of aids to navigation and regulatory markers that are approved by and installed in accordance with the requirements of the U.S. Coast Guard (USCG). See 33 CFR 66, Chapter I, subchapter C.	
Self-Verification Eligible	**Pre-Construction Notification Required**
Aids to navigation and regulatory markers approved by and installed in accordance with the requirements of the USCG. Not located within a USACE Federal Navigation Project (FNP).	1. Work not eligible for SV. 2. Aids to navigation and regulatory markers or temporary buoys, markers, floats, and similar structures that are located within a USACE FNP.

GP 2. REPAIR OR MAINTENANCE OF EXISTING CURRENTLY SERVICEABLE, AUTHORIZED OR GRANDFATHERED STRUCTURES/FILLS AND REMOVAL OF STRUCTURES AND FILLS (Sections 10 & 404): (a) Repair, rehabilitation, or replacement of any previously authorized, currently serviceable structure or fill, or of any currently serviceable structure or fill authorized by 33 CFR 330.3 (activities occurring before certain dates), provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification. Minor deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, requirements of other regulatory agencies, or current construction codes or safety standards that are necessary to make the repair, rehabilitation, or replacement are authorized. Includes removal of structures and fill.

Not authorized under GP 2: Permanent impacts > 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands, and > 1 acre in all other WOTUS.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. Repair, replacement in-kind, or maintenance of existing, currently serviceable, authorized structures or fills with no substantial expansion or change in use: - Conditions of the original authorization apply. - Minor deviations in fill design allowed. - The repair, rehabilitation, or replacement of those structures or fills destroyed or damaged by storms, floods, fire or other discrete events is authorized, provided the repair, rehabilitation, or replacement is commenced, or is under contract to commence, within two years of the date of their destruction or damage. In cases of catastrophic events, such as hurricanes or tornadoes, USACE may waive the two-year limit in writing provided the permittee can demonstrate funding, contract, or other similar delays. - Maintenance includes, but it is not limited to, the removal of accumulated sediments and debris in the vicinity of existing structures (such as bridges, culverted road crossings, water intake structures, dams, etc.), provided: (a) removal is the minimum necessary to restore the waterway in the vicinity of the structure to the approximate dimensions that existed when the structure was built; and (b) all dredged or excavated materials are deposited and retained in an upland area. 2. Bulkhead replacement via installation of new bulkhead within 18” of existing bulkhead and backfill. 3. Construction mats of any area necessary to conduct activities that were previously authorized, authorized under SV, or not subject to regulation in all WOTUS. 4. Removal of previously authorized structures or fills and the restoration to pre-construction conditions.	1. Work not eligible for SV. 2. Dam and flood control or levee repair, rehabilitation, or replacement which involves a permanent change in the flood elevation or permanent water surface elevation of the impoundment. 3. The discharge of more than *de minimis* (i.e., inconsequential) quantities of accumulated bottom sediment occurring from or through a dam into downstream waters. **NOTE 1**: Grandfather dates include structures or work completed before December 18, 1968 and fill placed before July 25, 1975 for USACE purposes only. **NOTE 2**: This GP authorizes the repair, rehabilitation, or replacement of any previously authorized structure or fill that does not qualify for the CWA §404(f) exemption for maintenance. See 33 CFR 323.4(a)(2).

GP 3. MOORINGS (Section 10): (a) New private, non-commercial, non-rental, single-boat moorings; (b) Minor relocation of previously authorized moorings; (c) Mooring field expansions, boundary reconfigurations, or modifications of previously authorized mooring fields; and (d) Maintenance and replacement of moorings. **Not authorized under GP 3:** Moorings or moored vessels that extend within the horizontal limits of FNPs and moorings associated with a new boating facility.	
Self-Verification Eligible	**Pre-Construction Notification Required**
1. Private, non-commercial, non-rental, single-boat moorings. 2. Minor relocation of previously authorized moorings.	1. Work not eligible for SV. 2. New moorings associated with an existing boating facility.

GP 4. PILE-SUPPORTED STRUCTURES AND FLOATS, INCLUDING BOAT LIFTS/HOISTS AND OTHER MISCELLANEOUS STRUCTURES, TEMPORARY RECREATIONAL STRUCTURES AND WORK (Section 10): (a) New, expansions, reconfigurations, or modifications of structures for navigation access including docks, decks, floats, stairs, and boat/float lifts; and (b) Temporary buoys, markers, and similar structures placed for recreational use during specific events such as water skiing competitions and boat races or seasonal use.

Not authorized under GP 4: (a) Fill or excavation; (b) Structures within FNPs; or (c) Structures associated with a new boating facility.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. Reconfiguration of existing authorized docks with no additional slips and no expansion, provided those structures do not extend beyond the existing perimeter of the facility. 2. Seasonal private, residential pile-supported or float-supported structures for navigational access extending no further waterward than 50 feet beyond mean high water (MHW), not >6 feet wide, and a cumulative dock deck area <500 SF, and not located within 25 feet of the property line. 3. Private, bottom-anchored seasonal swim floats that are <400 SF in size. 4. Private boat and float lifts. 5. Temporary buoys, markers, and similar structures: (a) placed for recreational use during specific events, provided that such structures are removed within 30 days after use has been discontinued and/or; (b) placed during winter events on ice and removed before spring thaw. Provided the above do not extend across >25% of the waterway width at mean low water (MLW).	1. Work not eligible for SV. 2. Piers, docks, decks, floats, and similar structures that provide public, community or government recreational uses such as boating, fishing, swimming, access, etc. 3. Structures or work in or affecting navigable WOTUS that are not defined under any other GP activity. 4. New structures within an existing boating facility, provided those structures do not extend beyond the existing perimeter of the boating facility. 5. Temporary buoys, markers, and similar structures that will not be removed within 30 days after use has been discontinued. 6. Cordoning off portions of public waters (e.g., swim areas). **NOTE:** The USACE may require a letter of no objection from the abutter if a structure is to be located within 25 feet of the property line.

GP 5. BOAT RAMPS AND MARINE RAILWAYS (Sections 10 and 404): Activities required for the construction of boat ramps and marine railways including excavation and fill. **Not authorized under GP 5:** (a) Permanent impacts ≥ 5,000 SF in Lake Champlain, Lake Memphremagog and Wallace Pond and adjacent wetlands, and > 1 acre in all other WOTUS; (b) Temporary impacts > 1 acre in WOTUS; or (c) dredging in navigable WOTUS. (see GP 7).	
Self-Verification Eligible	**Pre-Construction Notification Required**
1. < 5,000 SF of permanent and temporary impacts in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands.	1. Work not eligible for SV. 2. < 5000 SF permanent impact and < 1 acre of temporary impact and excavation in Lake Champlain, Lake Memphremagog and Wallace Pond and adjacent wetlands. 3. Permanent and temporary impacts ≥ 5,000 SF and < 1 acre in waterways and/or wetlands, other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. **NOTE**: The USACE may require a letter of no objection from the abutter if a structure is to be located within 25 feet of the property line.

GP 6. UTILITY LINE ACTIVITIES (Sections 10 & 404): Activities required for (a) The construction, maintenance, relocation, repair, and removal of utility lines, including outfall and intake structures, and the associated excavation, backfill, or bedding for utility lines; (b) The construction, maintenance or expansion of utility line substation facilities associated with a power/utility line in WOTUS; and (c) The construction and maintenance of foundations for overhead utility line towers, poles, and anchors, provided the foundations are the minimum size necessary, and separate footings for each tower leg (rather than a larger single pad) are used where feasible. This GP authorizes the construction of access roads to facilitate construction of the above activities, provided the activity, in combination with all other activities included in one single and complete project, does not cause the permanent loss of greater than 1 acre of WOTUS. Impacts resulting from mechanized pushing, dragging or other similar activities that redeposit excavated soil material shall be figured into the area limit determination.

Not authorized under GP 6: Permanent and temporary impacts ≥ 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands, and > 1 acre in all other WOTUS.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. < 5,000 SF of permanent and temporary impacts in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 2. Intake structures that are dry hydrants used exclusively for firefighting activities with no stream impoundments. 3. Seasonal waterlines installed on the lake or river bottom that are ≤ 2 inches in diameter.	1. Work not eligible for SV. 2. Overhead utility lines constructed over navigable WOTUS and submarine utility lines that are routed in or under such waters. 3. Permanent and temporary impacts are: a. < 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. b. ≥ 5,000 SF and < 1 acre in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 4. Work involves stream channelization, relocation or loss of streambed including impoundments. **NOTE**: Utility lines consisting of aerial electric power transmission lines crossing navigable WOTUS must comply with the applicable minimum clearances specified in 33 CFR 322.5(i).

NOTE: A utility line is defined as any pipe or pipeline for the transportation of any gaseous, liquid, liquescent, or slurry substance, for any purpose, and any cable, line, or wire for the transmission for any purpose of electrical energy, telephone, data, and telegraph messages, and radio and television communication. The term utility line does not include activities that drain a water of the U.S., such as drainage tile or French drains, but it does apply to pipes conveying drainage from another area.
NOTE: Construction mats of any area necessary to conduct activities do not count towards the SV and PCN thresholds and should be removed as soon as work is completed.

GP 7. DREDGING (Section 10), BEACH NOURISHMENT, (Sections 10 & 404); ROCK AND DEBRIS REMOVAL (Section 10) AND ROCK RELOCATION (Sections 10 & 404): (a) New and maintenance dredging, including disposal of dredged material for beach nourishment, provided USACE finds the dredged material to be suitable for such disposal; (b) Beach nourishment not associated with dredging; and (c) Rock removal and relocation for navigation.

Not authorized under GP 7: (a) New and maintenance dredging ≥ 5,000 CY; (b) Permanent fill ≥ 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands, and > 1 acre in all other WOTUS; (c) Regulated discharges associated with excavation, and disposal > 1/2 acre; and (d) Temporary fill > 1 acre in all WOTUS.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. No new or maintenance dredging in navigable WOTUS. 2. < 5,000 SF of temporary impact associated with dredging in waterways and/or wetlands. 3. ≤ 200 SF of impact associated with rock removal and relocation. 4. Removal of debris (e.g. woody and plant material deposited after a storm event) in navigable WOTUS.	1. Work not eligible for SV. 2. New and maintenance dredging up to 5,000 CY with upland disposal or beach nourishment in navigable WOTUS. 3. ≥ 5,000 SF and < 1 acre of temporary impact associated with dredging in all waterways and/or wetlands. 4. Disposal of dredged material for beach nourishment: a. < 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. b. ≥ 5,000 SF and < 1 acre in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands.

GP 8. U.S. COAST GUARD APPROVED BRIDGES (Section 10 & 404; navigable WOTUS): Discharges of dredged or fill material incidental to the construction and modification of bridges across navigable WOTUS, including cofferdams, abutments, foundation seals, piers, and temporary construction and access fills provided that the USCG authorizes the construction of the bridge structure under Section 9 of the Rivers and Harbors Act of 1899 or other applicable laws. A USCG Authorization Act Exemption or a STURRA (144h) exemption do not constitute USCG authorization (see GP 18). **Not authorized under GP 8:** Causeways and approach fills (see GP 18)	
Self-Verification Eligible	**Pre-Construction Notification Required**
Discharges of dredged or fill material incidental to the construction and modification of bridges.	

GP 9. SHORELINE AND BANK STABILIZATION PROJECTS (Sections 10 & 404): Bank stabilization activities necessary for erosion protection along the banks of lakes, ponds, streams, and any other open waters. Includes bulkheads, seawalls, riprap, revetments or slope protection and similar structures, as well as vegetative planting, soil bioengineering, or alternative techniques that are a combination of the two (e.g. living shorelines), specifically for the purpose of shoreline protection.

Not authorized under GP 9: (a) Bank stabilization ≥ 500 LF in total length and/or involving more than an average of 1 CY of fill per linear foot placed below the plane of the ordinary high water mark (OHWM) in Lake Champlain, Lake Memphremagog and Wallace Pond and adjacent wetlands; (b) Stream channelization or relocation activities; or (c) breakwaters, groins and jetties.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. No fill in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 2. Bank stabilization < 200 linear feet long and does not exceed an average of 1 CY of fill per linear foot placed below the plane of OHWM in WOTUS other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 3. < 5,000 SF of temporary fill associated with bank stabilization in waterways and/or wetlands, other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands.	1. Work not eligible for SV. 2. Bank stabilization <500 linear feet and an average of < 1 CY of fill per linear foot placed below the plane of OHWM in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands.

GP 10. AQUATIC HABITAT RESTORATION, ESTABLISHMENT AND ENHANCEMENT ACTIVITIES (Sections 10 and 404): Activities in waters of the United States associated with the restoration, enhancement, and establishment of wetlands and riparian areas; the restoration and enhancement of streams and other open waters; the relocation of non-navigable WOTUS, including streams and associated wetlands for reestablishment of a natural stream morphology and reconnection of the floodplain; and the restoration and enhancement of shellfish, finfish and wildlife, provided those activities result in net increases in aquatic resource functions and services.

Not authorized under GP 10: Stream channelization activities.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. No fill in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 2. Permanent and temporary impacts are < 5,000 SF in waterways and/or wetlands. 3. The activity does not convert a stream to wetland or vice versa, or wetland to a pond or uplands. 4. Temporary structures in navigable WOTUS not exceeding 30 days.	1. Work not eligible for SV. 2. Permanent or temporary impacts are: a. In Lake Champlain, Lake Memphremagog, Wallace Pond, adjacent wetlands; or b. ≥ 5,000 SF in all other waterways and/or wetlands. 3. Permanent structures in navigable WOTUS. 4. Sea Lamprey control projects. 5. Water impoundments. 6. Dam removals. 7. Restoration, establishment and/or enhancement activities approved for use by a USACE-approved in-lieu fee program or USACE-approved mitigation bank, with impacts of any size.

GP 11. FISH AND WILDLIFE HARVESTING ACTIVITIES (Sections 10 and 404): Activities in waters of the United States associated with fish and wildlife harvesting devices, such as duck blinds, fish shanties, and small fish aggregating and attraction devices. **Not authorized by GP 11:** (a) Artificial reefs; and (b) Permanent and temporary fill > 5,000 SF in all waterways and/or wetlands.	
Self-Verification Eligible	**Pre-Construction Notification Required**
Non-fill activities associated with fish and wildlife harvesting devices including duck blinds, fish shanties and small fish aggregating and attraction devices in navigable waters.	1. Work not eligible for SV. 2. Permanent and temporary impacts < 5,000 SF in all waterways and/or wetlands.

GP 12. OIL SPILL AND HAZARDOUS MATERIAL CLEANUP (Sections 10 and 404): (a) Activities conducted in response to a discharge or release of oil and hazardous substances that are subject to the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR 300) including containment, cleanup, and mitigation efforts, provided activities are done under either (i) The Spill Prevent, Control and Countermeasure Plan required by 40 CFR 112.3; (ii) The direction or oversight of the Federal on-site coordinator designated by 40 CFR 300; or (iii) Any approved existing state, regional or local contingency plan, provided that the Regional Response Team concurs with the proposed response efforts or does not object to the response effort; (b) Activities required for the cleanup of oil releases in WOTUS from electrical equipment that are governed by EPA's polychlorinated biphenyl (PCB) spill response regulations at 40 CFR 761; (c) Booms placed in navigable WOTUS; and (d) Use of structures and fills for spill response training exercises. Special Aquatic Sites (SAS) must be restored to their original condition and elevation	
Self-Verification Eligible	**Pre-Construction Notification Required**
1. Activities that are conducted in accordance with (a) or (b) above. 2. Booms placed in navigable WOTUS for hazardous and toxic waste containment, absorption and prevention, provided they are removed upon completion of the cleanup. 3. Temporary impacts for spill response training exercises < 1000 SF in navigable WOTUS and < 5000 SF in all other WOTUS, and in place ≤ 30 days.	1. Work not eligible for SV. 2. Permanent structures or impacts for spill response training exercises.

GP 13. CLEANUP OF HAZARDOUS AND TOXIC WASTE (Sections 10 and 404): Specific activities to effect the containment, stabilization or removal of hazardous or toxic waste materials, including court ordered remedial action plans or related settlements which are performed, ordered or sponsored by a government agency with established legal or regulatory authority. SAS must be restored to their original condition and elevation.

Not authorized under GP 13: (a) the establishment of new disposal sites; or (b) the expansion of existing sites used for the disposal of hazardous or toxic waste.

Self-Verification (SV) Eligible	**Pre-Construction Notification Required**
1. Permanent and temporary impacts are < 5,000 SF in WOTUS. 2. No fill in navigable WOTUS. 3. Booms placed in navigable WOTUS for oil and hazardous substance containment, absorption and prevention, provided they are removed upon completion of the cleanup.	1. Work not eligible for SV. 2. Permanent and temporary impacts: a. ≥ 5,000 SF in all WOTUS; or b. Located in navigable WOTUS. 3. Work involves stream channelization, relocation, impoundments or loss of streambed.

GP 14. SCIENTIFIC MEASUREMENT DEVICES (Sections 10 and 404): Scientific devices for measuring and recording scientific data, such as staff gauges, tide and current gauges, meteorological stations, water recording and biological observation devices, water quality testing and improvement devices, and similar structures. Also eligible are small temporary weirs and flumes constructed primarily to record water quantity and velocity, provided the discharge is < 25 CY.

Not authorized under GP 14: (a) Permanent and temporary impacts > 1/2 acre in navigable WOTUS; and (b) Permanent and temporary impacts > 1 acre in all other WOTUS.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. Permanent and temporary impacts are ≤ 1,000 SF in WOTUS. 2. Temporary structures in navigable WOTUS. Provided the activity does not: • Restrict or concentrate movement of aquatic organisms; • Result in a hazard to navigation.	1. Work not eligible for SV. 2. Permanent and temporary impacts > 1000 SF in WOTUS. 3. Permanent structures in navigable WOTUS. 4. The activity involves permanent biological sampling devices in non-navigable WOTUS, temporary or permanent biological sampling devices in navigable WOTUS, or weirs and flumes.

NOTE: Upon completion of the use of the device to measure and record scientific data, the measuring device, and any other structures or fills associated with that device (e.g., foundations, anchors, buoys, lines, etc.), must be removed to the maximum extent practicable.

GP 15. SURVEY ACTIVITIES (Sections 10 and 404): Survey activities such as soil borings, core sampling, seismic exploratory operations, plugging of seismic shot holes, and other exploratory-type bore holes, exploratory trenching and historic resources surveys.

Not authorized under GP 15: (a) Permanent impacts > 5,000 SF in Lake Champlain, Lake Memphremagog and Wallace Pond, and > 1 acre in all other waterways and/or wetlands, (b) Temporary impacts > 1 acre in all WOTUS, excluding temporary mats.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. No fill in Lake Champlain, Lake Memphremagog and Wallace Pond. 2. < 5,000 SF of permanent and temporary impacts in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog and Wallace Pond. 3. No impacts, other than soil borings or core sampling, in navigable WOTUS. 4. No permanent structures or drilling and discharge of excavated material from test wells for oil and gas exploration allowed.	1. Work not eligible for SV. 2. < 5000 SF permanent impact and < 1 acre of temporary impact in Lake Champlain, Lake Memphremagog and Wallace Pond and adjacent wetlands. 3. Permanent and temporary impacts are ≥ 5,000 SF and < 1 acre of impact in waterways and/or wetlands, other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands.

NOTE: The area in which the exploratory trench is dug must be restored to its preconstruction elevation upon completion of the work and must not drain a water of the United States. In wetlands, the top 6 to 12 inches of the trench should normally be backfilled with topsoil from the trench.
NOTE: Construction mats of any area necessary to conduct activities do not count towards the SV and PCN thresholds and should be removed as soon as work is completed.

GP 16. ENERGY GENERATION AND RENEWABLE ENERGY GENERATION FACILITIES AND HYDROPOWER PROJECTS (Sections 10 and 404): Structures and work in navigable WOTUS and discharges of dredged or fill material into WOTUS for the construction, expansion, modification or removal of: (a) land-based renewable energy production facilities, including attendant features; (b) water-based wind production facilities or hydrokinetic renewable energy generation projects and their attendant features; and (c) discharges of dredged or fill material associated with hydropower projects.

Attendant features may include, but are not limited to, land-based collection and distribution facilities, control facilities, and parking lots. For each single and complete project in (b) above, no more than 10 generation units (e.g., wind turbines or hydrokinetic devices) are authorized in navigable WOTUS.

Not authorized under GP 16: Permanent and temporary impacts that are (a) > 1 acre in non-navigable WOTUS; (b) > 5,000 SF in navigable WOTUS; and (c) > 5,000 SF in wetlands adjacent to Lake Champlain, Lake Memphremagog, and Wallace Pond.

Self-Verification Eligible	**Pre-Construction Notification Required**
For land-based facilities: 1. < 5,000 SF of permanent and temporary impacts in non-navigable WOTUS.	1. Work not eligible for SV. 2. Permanent and temporary impacts are: a. ≥ 5000 SF and < 1 acre in non-navigable WOTUS, and b. < 5000 SF in navigable WOTUS. 3. Work involves stream channelization, relocation or loss of streambed including impoundments.

NOTE: Utility lines constructed to transfer the energy from the land-based renewable generation or collection facility to a distribution system, regional grid, or other facility may be authorized by GP 6.

NOTE: Construction mats of any area necessary to conduct activities do not count towards the SV and PCN thresholds and should be removed as soon as work is completed.

GP 17. NEW/EXPANDED DEVELOPMENT AND RECREATIONAL FACILITIES (Sections 10 and 404): Discharges of dredged or fill material for the construction or expansion of developments and/or recreational facilities. This GP authorizes attendant features that are necessary for the use of the development. Attendant features may include but are not limited to roads, parking lots, garages, yards, utility lines, storm water management facilities, and septic fields. Fill area includes all temporary and permanent fill, and regulated discharges associated with excavation.

Not authorized under GP 17: Permanent and temporary impacts > 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands, and > 1 acre in all other waterways and/or wetlands.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. < 5,000 SF of permanent and temporary impacts in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog and Wallace Pond and adjacent wetlands.	1. Work not eligible for SV. 2. Permanent and temporary impacts are: a. < 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. b. ≥ 5,000 SF and < 1 acre in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 3. Work involves stream channelization, relocation, or loss of streambed, including impoundments.

NOTE: Construction mats of any area necessary to conduct activities do not count towards the SV and PCN thresholds and should be removed as soon as work is completed.

GP 18. LINEAR TRANSPORTATION PROJECTS AND STREAM/WETLAND CROSSINGS (Sections 10 & 404): Activities required for the construction, expansion, modification, or improvement of linear transportation projects (e.g., driveways, roads, highways, railways, trails, airport runways, and taxiways), and attendant features. Any stream channel modification is limited to the minimum necessary to construct or protect the linear transportation project; such modifications must be in the immediate vicinity of the project.

Not authorized under GP 18: Permanent and temporary impacts > 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands, and > 1 acre in all other waterways and/or wetlands.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. < 5,000 SF of permanent and temporary impacts in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog and Wallace Pond and adjacent wetlands. 2. Permanent and temporary stream crossings that comply with GC 20. 3. Existing crossings (e.g., culverts, elliptical or arch pipes, etc.) are not modified by (a) decreasing the diameter of the crossing or (b) changing the friction coefficient, such as through sliplining (retrofitting an existing culvert by inserting a smaller diameter pipe), culvert relining or invert lining.	1. Work not eligible for SV. 2. Permanent and temporary impacts are: a. < 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. b. ≥ 5,000 SF and < 1 acre in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 3. Work involves stream channelization, relocation or loss of streambed including impoundments. **NOTE:** Time of year for instream work is not limited for PCN authorizations unless specifically required by special conditions.

NOTE: Non-linear features commonly associated with transportation projects, such as vehicle maintenance or storage buildings, parking lots, train stations, or aircraft hangars may be authorized by GP 17.
NOTE: Construction mats of any area necessary to conduct activities do not count towards the SV and PCN thresholds and should be removed as soon as work is completed.

GP 19. MINING ACTIVITIES (Sections 10 and 404): Discharges of dredged or fill material into WOTUS for mining activities.

Not authorized under GP 16: Permanent and temporary impacts > 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands, and > 1 acre in all other waterways and/or wetlands.

Self-Verification Eligible	**Pre-Construction Notification Required**
1. The activity does not occur in, over, or under navigable WOTUS. 2. < 5,000 SF of permanent and temporary impacts in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands.	1. Work not eligible for SV. 2. Permanent and temporary impacts are: a. < 5,000 SF in Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. b. ≥ 5,000 SF and < 1 acre in waterways and/or wetlands other than Lake Champlain, Lake Memphremagog, Wallace Pond and adjacent wetlands. 3. Work occurs in a navigable WOTUS. 4. Work involves stream channelization, relocation, impoundment, loss of streambed, or discharge of tailings into streams.

<table>
<tr><td colspan="2">GP 20. TEMPORARY FILL NOT ASSOCIATED WITH ANY OTHER GP ACTIVITIES (Sections 10 and 404): Temporary structures, work, and discharges, including cofferdams, necessary for construction activities or access fills or dewatering of construction sites that are not authorized under another GP activity.

Not authorized under GP 20: (a) Permanent structures or impacts; (b) Temporary impacts > 1 acre in WOTUS; (c) use of cofferdams to dewater wetlands or other aquatic areas to change their use; or (d) Structures or fill left in place after construction is completed.</td></tr>
<tr><td>Self-Verification Eligible</td><td>Pre-Construction Notification Required</td></tr>
<tr><td>1. Temporary impacts including land clearing in WOTUS are ≤ 5000 SF.</td><td>1. Work not eligible for SV.</td></tr>
<tr><td colspan="2">NOTE: Temporary stream crossings may be authorized under GP 18.
NOTE: Construction mats of any area necessary to conduct activities do not count towards the SV and PCN thresholds and should be removed as soon as work is completed.</td></tr>
</table>

GP 21. AGRICULTURAL ACTIVITIES (Section 404): Discharges of dredged or fill material into WOTUS for agricultural activities, including the construction of building pads for farm buildings. Authorized activities include: (a) installation, placement, or construction of drainage tiles, ditches, or levees; mechanized land clearing; land leveling; the relocation of existing serviceable drainage ditches; and similar activities; (b) discharges of dredged or fill material to relocate existing serviceable drainage ditches constructed in streams. **Not authorized under GP 21:** (a) Permanent impacts > 1 acre in non-navigable WOTUS; (b) Work in navigable WOTUS; or (c) Construction of farm ponds in perennial streams.	
Self-Verification Eligible	**Pre-Construction Notification Required**
1. For those activities subject to USACE jurisdiction, < 5,000 SF of permanent and temporary impacts.	1. ≥ 5,000 SF to < 1 acre of permanent and temporary impacts. 2. Work involves stream channelization, relocation or loss of streambed including impoundments.

SECTION IV. GENERAL CONDITIONS

1. Other Permits. Permittees shall obtain other federal, state, or local authorizations as required by law. Permittees are responsible for applying for and obtaining all required state or local approvals. Work that is not regulated by the state of Vermont, but is subject to USACE jurisdiction, may be eligible for these General Permits (GPs).

2. Federal Jurisdictional Boundaries.

a. Applicability of these GPs shall be evaluated with reference to federal jurisdictional boundaries. Activities shall be evaluated with reference to "WOTUS" under the Clean Water Act (33 CFR 328) and "navigable WOTUS" under §10 of the Rivers and Harbors Act of 1899 (33 CFR 329). Applicants are responsible for ensuring that the boundaries used satisfy the federal criteria defined at 33 CFR 328-329. These sections prescribe the policy, practice and procedures to be used in determining the extent of USACE jurisdiction. Note: WOTUS includes all waters pursuant to 33 CFR 328.3(a), and adjacent wetlands as that term is defined in 33 CFR 328.3(c).

b. Applicants shall identify all aquatic resources on the project site. All aquatic resources are presumed to be WOTUS unless an approved jurisdictional determination has been obtained from USACE that determines otherwise. Wetlands shall be delineated in accordance with the Corps of Engineers Wetlands Delineation Manual and the most recent Northcentral/Northeast Regional Supplement.

3. Mitigation (Avoidance, Minimization, and Compensatory Mitigation).

a. Activities shall be designed and constructed to avoid and minimize direct, indirect, secondary, and cumulative adverse effects, both temporary and permanent, to WOTUS to the maximum extent practicable at the project site (i.e., on site). Consideration of mitigation (avoiding, minimizing, rectifying, reducing, or compensating) is required to the extent necessary to ensure that the adverse effects to the aquatic environment are no more than minimal.

b. Applicants should consider riparian/forested buffers for stormwater management and low impact development (LID) best management practices (BMPs) to reduce impervious cover and manage stormwater to minimize impacts to the maximum extent practicable.

c. Compensatory mitigation[1] for effects to WOTUS, including direct, secondary and temporal[2], may be required for projects with permanent and temporary impacts that exceed the SV area limits to offset unavoidable impacts, which remain after all appropriate and practicable avoidance and minimization has been achieved, and to ensure that the adverse effects to the aquatic environment are no more than minimal. Proactive restoration projects or temporary impact work with no secondary effects may generally be excluded from this requirement.

d. Mitigation proposals shall follow the guidelines found in the Compensatory Mitigation for Losses of Aquatic Resources; Final Rule April 10, 2008; 33 CFR 332. Permittees considering the use of a monetary payment in-lieu of permittee-responsible mitigation as compensation for unavoidable impacts to WOTUS in the state of Vermont may utilize the Vermont In-Lieu Fee Program.

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[1] Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR 332. Also reference the New England District Compensatory Mitigation Guidance at http://www.nae.usace.army.mil/Missions/Regulatory/Mitigation.aspx.

[2] Temporal loss: The time lag between the losses of aquatic resource functions caused by the permitted impacts and the replacement of aquatic resource functions at the compensatory mitigation site(s) (33 CFR 332.2).

e. Mitigation will likely be required for fills >5,000 SF. Information is provided at https://www.nae.usace.army.mil/Missions/Regulatory/Mitigation/.

4. Discretionary Authority. Notwithstanding compliance with the terms and conditions of this permit, USACE retains discretionary authority to require an IP review based on concerns for the aquatic environment or for any other factor of the public interest (33 CFR 320.4(a)). This authority is invoked on a case-by-case basis whenever USACE determines that the potential consequences of the proposal warrant IP review based on the concerns stated above. This authority may be invoked for projects with cumulative adverse environmental effects that are more than minimal, or if there is a special resource or concern associated with a particular project. Whenever USACE notifies an applicant that an IP may be required, authorization under these GPs is voided and no work may be conducted until a USACE IP is obtained or until USACE notifies the applicant that further review has demonstrated that the work may be reviewed under these GPs.

5. Fills Within 100-Year Floodplains. The activity shall comply with applicable Federal Emergency Management Agency (FEMA)-approved state of Vermont or municipal floodplain management requirements. Permittees should contact FEMA and/or the state of Vermont Floodplain Management Program regarding floodplain management requirements (see Section V for Federal and state-specific contact info).

6. Single and Complete Project. The term “single and complete project” is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers. The GPs shall not be used for piecemeal work and shall be applied to single and complete projects.

a. For non-linear projects, a single and complete project must have independent utility. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

b. Unless USACE determines the activity has independent utility, all components of a single project and/or all planned phases of a multi-phased project (e.g., subdivisions should include all work such as roads, utilities, and lot development) shall be treated together as constituting one single and complete project.

c. For linear projects such as power lines or pipelines with multiple crossings, a “single and complete project” is all crossings of a single water of the U.S. (i.e. single waterbody) at a specific location. For linear projects crossing a single waterbody several times at separate and distant locations, each crossing is considered a single and complete project. However, individual channels in a braided stream or river, or individual arms of a large, irregularly-shaped wetland or lake, etc., are not separate waterbodies, and crossings of such features cannot be considered separately. If any crossing requires a PCN review or an IP review, then the entire linear project shall be reviewed as one project under PCN or the IP procedures.

7. Use of Multiple General Permits. The use of more than one GP for a single and complete project is prohibited, except when the acreage loss of WOTUS authorized by the GPs does not exceed the acreage limit of the GPs with the highest specified acreage limit. For example, if a road crossing over waters is constructed under GP 18, with an associated utility line crossing authorized by GP 6, if the maximum acreage loss of WOTUS for the total project is ≥1 acre it shall be evaluated as an IP.

8. USACE Property and Federal Projects.

a. Corps projects and property can be found at:*www.nae.usace.army.mil/Missions/Civil-Works and www.nan.usace.army.mil/missions/civil-works*

b. In addition to any authorization under these GPs, proponents must contact the USACE Real Estate Division at (978) 318-8585 for work occurring on or potentially affecting USACE properties and/or USACE-controlled easements to initiate reviews and determine what real estate instruments are necessary to perform work. Permittees may not commence work on USACE properties and/or USACE-controlled easements until they have received any required USACE real estate documents evidencing site-specific permission to work.

c. Any proposed temporary or permanent modification or use of a Federal project (including but not limited to a levee, dike, floodwall, channel, anchorage, seawall, bulkhead, jetty, wharf, pier or other work built but not necessarily owned by the United States), or any use which would obstruct or impair the usefulness of the Federal project in any manner, and/or would involve changes to the authorized Federal project's scope, purpose, and/or functioning, is not eligible for SV and will also require review and approval by USACE pursuant to Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408) (Section 408).

d. A PCN is required for all work in, over, under, or within a distance of three times the authorized depth of a USACE FNP and may also require permission under Section 408.

e. Any structure or work that extends closer than a distance of three times the project's authorized depth to the horizontal limits of any FNP shall be subject to removal at the owner's expense prior to any future USACE dredging or the performance of periodic hydrographic surveys.

f. Where a Section 408 permission is required, written verification for the PCN will not be issued prior to the decision on the Section 408 permission request.

9. National Lands. Activities that impinge upon the value of any National Wildlife Refuge, National Forest, or any area administered by the NPS, USFWS or U.S. Forest Service (USFS) are not eligible for SV and require either a PCN or IP.

10. Wild and Scenic Rivers.

a. The following activities in designated rivers of the National Wild and Scenic River (WSR System, or in a river designated by Congress as a "study river" for possible inclusion in the system, require a PCN unless the NPS has determined in writing to the proponent that the proposed work will not adversely affect the WSR designation or study status:

i. Activities that occur in WSR segments, in and 0.25 miles up or downstream of WSR segments, or in tributaries within 0.25 miles of WSR segments;

ii. Activities that occur in wetlands within 0.25 miles of WSR segments;

iii. Activities that have the potential to alter free-flowing characteristics in WSR segments.

b. As of December 19, 2014, affected rivers in Vermont include: the Missisquoi River, from its headwaters at the Lowell/Westfield town line to the Canadian border in Troy (20.5 miles) and from the Canadian border in East Richford to Enosburgh Falls (14.6 miles); and the Trout River.

11. Historic Properties.

a. No undertaking shall cause effects (defined at 33 CFR 325 Appendix C and 36 CFR 800) on properties listed on, determined to be eligible for listing on, or potentially eligible for listing on

the National Register of Historic Places[3], including previously unknown historic properties within the permit area, unless USACE or another Federal action agency has satisfied the consultation requirements of Section 106 of the National Historic Preservation Act (NHPA). The SHPO, THPO and the National Register of Historic Places can assist with locating information on: i) previously identified historic properties; and ii) areas with potential for the presence of historic resources, which may require identification and evaluation by qualified historic preservation and/or archaeological consultants in consultation with USACE and the SHPO and/or THPO(s).

b. For activities eligible for SV, proponents must ensure and document that the activity will not cause effects as stated in 11(a).

c. Permittees must submit a PCN to USACE as soon as possible if the authorized activity may cause effects as stated in 11(a) to ensure that USACE is aware of any potential effects of the permitted activity on any historic property or cultural resource so that the consultation requirements of Section 106 of NHPA can be satisfied.

d. If a project proponent discovers any previously unknown historic, cultural, or archeological remains or artifacts while accomplishing the activity authorized by this permit, they must immediately notify the District Engineer of what they have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The District Engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

e. Federal agencies should follow their own procedures for complying with the requirements of Section 106 NHPA. Along with the application, Federal applicants shall provide USACE with the appropriate documentation to demonstrate compliance with those requirements.

f. Federal and non-federal applicants should coordinate with USACE before conducting any onsite archeological work (reconnaissance, surveys, recovery, etc.) requested by the SHPO or the THPO, as USACE will determine the permit area for the consideration of historic properties based on 33 CFR 325 Appendix C. This is to ensure that work done is in accordance with USACE requirements.

12. Federal Threatened and Endangered Species.

a. No activity is authorized under any GP which: i) is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species; or ii) “may affect” a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed; or iii) is “likely to adversely affect” a listed species or critical habitat unless Section 7 consultation has been completed by USACE or another lead action agency in coordination with USACE; or iii) violates the ESA.

b. All prospective permittees shall obtain an Official Species List from the USFWS’s Information for Planning and Consultation (IPAC) found at: https://ecos.fws.gov/ipac/. This is applicable to SV eligible and PCN activities.

c. Non-federal permittees must submit a PCN if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized.

[3] The majority of historic properties are not listed on the National Register of Historic Places and may require identification and evaluation by qualified historic preservation and/or archaeological consultants in consultation with USACE and the SHPO and/or THPO.

An activity may remain eligible for SV if the only listed species affected is the northern long-eared bat (*Myotis septrionalis*), and

(i) the activity: 1) will not remove trees ≥3 inches dbh at any time of the year; or ≤10 trees ≥ 3 inches dbh between November 1 – March 31; and 2) is not within the "buffer" of a NLEB hibernacula or maternity roost tree; and 3) does not involve work on bridges or existing riprap associated with dams; or

(ii) only after Section 7 consultation has been completed by USACE under the 4(d) Rule Streamlined Consultation.

d. Federal agencies shall follow their own procedures for complying with the requirements of the ESA while ensuring that USACE and any other federal action agencies are included in the consultation process.

e. Non-federal representatives designated by USACE to conduct informal consultation or prepare a biological assessment shall follow the requirements in the designation document(s) and the ESA. Non-federal representatives shall also provide USACE with the appropriate documentation to demonstrate compliance with those requirements. USACE will review the documentation and determine whether it is sufficient to address ESA compliance for the GP activity, or whether additional ESA consultation is necessary.

f. The requirements to comply with Section 7 of the ESA may be satisfied by a programmatic agreement (PA) or programmatic consultation (PC) with USACE, the New England District, or another federal agency. New England District PAs and PCs are found at: *www.nae.usace.army.mil/Missions/Regulatory*

13. Navigation.

a. No activity may cause more than a minimal adverse effect on navigation.

b. Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations must be installed and maintained at the permittee's expense on authorized facilities in navigable WOTUS.

c. Any structure or work that extends closer to the horizontal limits of any USACE FNP than a distance of three times the project's authorized depth shall be subject to removal at the owner's expense prior to any future USACE dredging or the performance of periodic hydrographic surveys. This is applicable to SV eligible and PCN activities.

d. There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein, and no attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized herein.

e. The permittee understands and agrees that if future U.S. operations require the removal, relocation, or other alteration of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from USACE, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the U.S. No claim shall be made against the U.S. on account of any such removal or alteration.

f. A PCN is required for all work in, over or under an FNP or its buffer zone unless otherwise indicated in Section III as the work may also require a Section 408 permit.

14. Heavy Equipment in Wetlands. Operating heavy equipment (drill rigs, fixed cranes, etc.) within wetlands shall be minimized, and such equipment shall not be stored, maintained or repaired in wetlands, to the maximum extent practicable. Where construction requires heavy equipment operation in wetlands, the equipment shall: a) have low ground pressure (typically <3

psi); b) be placed on swamp/construction/timber mats (herein referred to as “construction mats” or “mats”) that are adequate to support the equipment in such a way as to minimize disturbance of wetland soil and vegetation; or c) be operated on adequately dry or frozen wetlands such that shear pressure does not cause subsidence of the wetlands immediately beneath equipment and upheaval of adjacent wetlands. Construction mats are to be placed in the wetland from the upland or from equipment positioned on swamp mats if working within a wetland. Construction mats should be carried, and not dragged, into position, where feasible. Other support structures that are capable of safely supporting equipment may be used with written USACE authorization. Similarly, the permittee may request written authorization from USACE to waive use of mats during frozen or dry conditions. An adequate supply of spill containment equipment shall be maintained on site. Construction mats should be managed in accordance with the following construction mat best management practices:

• Mats should be in good condition to ensure proper installation, use and removal.
• Where feasible, mats should be carried and not dragged unless they are being used as a grading implement.
• Where feasible, place mats in a location that would minimize the amount needed for the wetland crossing.
• Minimize impacts to wetland areas during installation, use, and removal.
• Install adequate erosion and sediment controls at approaches to mats to promote a smooth transition to, and minimize sediment tracking onto, mats.
• In most cases, mats should be placed along the travel area so that the individual boards are resting perpendicular to the direction of traffic. No gaps should exist between mats. Mats should be placed far enough on either side of the resource area to rest on firm ground.
• Provide standard construction mat BMP details to work crews.
• Construction mats shall be thoroughly cleaned before re-use to minimize spread of invasive species.

15. Temporary Fill.

a. Temporary fill, construction mats and corduroy roads shall be entirely removed as soon as they are no longer needed to construct the authorized work. Temporary fill shall be placed in its original location or disposed of at an upland site and suitably contained to prevent its subsequent erosion into WOTUS.

b. All temporary fill and disturbed soils shall be stabilized to prevent its eroding into WOTUS where it is not authorized. Work shall include phased or staged development to ensure only areas under active development are exposed and to allow for stabilization practices as soon as practicable. Temporary fill must be placed in a manner that will prevent it from being eroded by expected high flows.

c. Unconfined temporary fill authorized for discharge into WOTUS shall consist of material that minimizes impacts to water quality (e.g. washed stone, stone, etc.).

d. Appropriate measures must be taken to maintain normal downstream flows and minimize flooding to the maximum extent practicable when temporary structures, work, and discharges of dredged or fill material, including cofferdams, are necessary for construction activities, access fills, or dewatering of construction sites. Materials shall be placed in a location and manner that does not adversely impact surface or subsurface water flow into or out of the wetland. Temporary fill authorized for discharge into wetlands shall be placed on geotextile fabric or other appropriate material laid on the pre-construction wetland grade where practicable to minimize impacts and to facilitate restoration to the original grade. Construction mats are excluded from this requirement.

e. Construction debris and/or deteriorated materials shall not be located in WOTUS.

16. Restoration of Wetland Areas.

a. Upon completion of construction, all disturbed wetland areas (the disturbance of these areas must be authorized) shall be stabilized with a wetland seed mix containing only plant species native to New England and shall not contain any species listed in the "Invasive and Other Unacceptable Plant Species" Appendix D in the "New England District Compensatory Mitigation Guidance" found at http://www.nae.usace.army.mil/Missions/Regulatory/Mitigation.aspx.

b. The introduction or spread of invasive plant species in disturbed areas shall be controlled. If construction mats are to be used, they shall be thoroughly cleaned before re-use.

c. In areas of authorized temporary disturbance, if trees are cut they shall be cut at or above ground level and not uprooted in order to prevent disruption to the wetland soil structure and to allow stump sprouts to revegetate the work area, unless otherwise authorized.

d. Wetland areas where permanent disturbance is not authorized shall be restored to their original condition and elevation, which under no circumstances shall be higher than the pre-construction elevation. Original condition means careful protection and/or removal of existing soil and vegetation, and replacement back to the original location such that the original soil layering and vegetation schemes are approximately the same, unless otherwise authorized.

17. Bank Stabilization. Projects involving construction or reconstruction/maintenance of bank stabilization structures within USACE jurisdiction should be designed to minimize environmental effects, effects to neighboring properties, scour, etc. to the maximum extent practicable. For example, vertical bulkheads should only be used in situations where reflected wave energy can be tolerated. This generally eliminates bodies of water where the reflected wave energy may interfere with or impact on harbors, marinas, or other developed shore areas. A revetment is sloped and is typically employed to absorb the direct impact of waves more effectively than a vertical seawall. It typically has a less adverse effect on the beach in front of it, abutting properties and wildlife.

18. Soil Erosion and Sediment Controls.

a. Appropriate soil erosion and sediment controls[4] (hereinafter referred to as "controls") must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the OHWM, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within WOTUS during periods of low-flow or no-flow. Areas of temporary fill and/or cofferdams must be included in total waterway/wetlands impacts to determine applicability of the GPs.

b. No dewatering shall occur with direct discharge to waters or wetlands. Excess water in isolated work areas shall be pumped or directed to a sedimentation basin, tank or other dewatering structures in an upland area adequately separated from waters or wetlands where suspended solids shall be removed prior to discharge back into waters or wetlands. All discharge points back into waters and wetlands shall use appropriate energy dissipaters and erosion and sedimentation control BMPs.

c. Temporary controls shall be removed upon completion of work, but not until all exposed soil and other fills, as well as any work waterward of the OHWM, are permanently stabilized at the

[4] Appropriate soil erosion, sediment and turbidity controls include cofferdams, bypass pumping around barriers immediately up and downstream of the work footprint (i.e., dam and pump), installation of sediment control barriers (i.e., silt fence, vegetated filter strips, geotextile silt fences, filter tubes, erosion control mixes, hay bales or other devices) downhill of all exposed areas, stream fords, retention of existing vegetated buffers, application of temporary mulching during construction, phased construction, and permanent seeding and stabilization, etc.

earliest practicable date. Sediment and debris collected by these devices shall be removed and placed at an upland location in a manner that will prevent its later erosion into a waterway or wetland. Controls may be left in place if they are biodegradable, and flows and aquatic life movements are not disrupted.

d. The material within sandbags shall not be released during their removal, and trenches must be backfilled as soon as practicable to reduce turbidity impact duration.

19. Aquatic Life Movements and Management of Water Flows.

a. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Unless otherwise stated, activities permanently impounding water in a stream require a PCN to ensure impacts to aquatic life species are avoided and minimized. All permanent and temporary crossings of waterbodies and wetlands shall be:

i. Suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of aquatic species; and

ii. Properly aligned and constructed to prevent bank erosion or streambed scour both adjacent to and inside the crossing.

b. To avoid adverse impacts on aquatic organisms, the low flow channel/thalweg shall remain unobstructed during periods of low flow, except when it is necessary to perform the authorized work.

c. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities. The activity must be constructed to withstand expected high flows. The activity shall not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the preconstruction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

d. Activities that temporarily or permanently impact upstream or downstream flood conditions require a PCN.

20. Waterway/Wetland Work and Crossings.

a. All permanent crossings of rivers, streams, brooks, etc. (hereon referred to as "streams") shall meet the following performance standards in order to qualify for SV:

i. Design the structure to maintain a streambed composition and form throughout the culvert similar to and continuous with the adjacent reaches. To do this:
- Design and install streambed material and bedforms if not adequately supplied and developed naturally,
- Design profile and alignment through structure similar to those of adjacent stream reaches,
- Design culvert elevation to remain embedded for the life of the structure and in consideration of future channel conditions.

ii. Maintain velocities, turbulence and depths within the structure similar to those found in adjacent stream reaches across a range of desired flows.

b. The requirements to comply with the performance standards in GC 20a. above in order to proceed as a SV project do not apply to the following:

i. Temporary crossings in place for less than 90 days. Temporary culverts must be embedded unless they're installed during low flow (July 1 – October 1) and it's placed on geotextile fabric laid on the stream bed to ensure restoration to the original grade.

c. Applicants proposing new crossings, or maintenance or replacement of serviceable crossings should refer to the Guidelines for the Design of Stream/Road Crossings for Passage of Aquatic Organisms in Vermont.

d. Applicants shall use the least intrusive and environmentally damaging method to construct the stream crossing, following this sequential minimization process: bridge spans, open bottom arches or embedded culverts.

e. Permanent and temporary crossings of waterbodies and wetlands shall be installed in such a manner as to preserve hydraulic and ecological connectivity, on either side of the crossing. The permittee shall take necessary measures to correct wetland damage due to lack of hydraulic connectivity.

f. Projects using retrofit methods increasing flow velocity or slip lining (retrofitting an existing culvert by inserting a smaller diameter pipe) require a PCN, either as new or maintenance activities.

g. No projects involving open trench excavation in flowing waters, except riprap installation, are allowed under SV. Open trench excavation projects may qualify for SV provided (1) the work doesn't occur in flowing waters (requires using management techniques such as temporary flume pipes, culverts, cofferdams, etc.) and (2) normal flows are maintained upstream and downstream of the project area.

h. For projects that otherwise meet the terms of SV, in-stream construction work shall be conducted only during the low flow period of July 1 to October 1 in any year. Projects that are conducted outside that time period require a PCN, regardless of the waterway and/or wetland impact area.

21. Discharge of Pollutants. All activities involving any discharge of pollutants into WOTUS authorized under these GPs shall comply with applicable water quality standards, effluent limitations, standards of performance, prohibitions, and pretreatment standards and management practices established pursuant to the CWA (33 U.S.C. 1251), and applicable state and local laws. If applicable water quality standards, limitations, etc., are revised or modified during the term of this permit, the authorized work shall be modified to conform with these standards within 6 months of the effective date of such revision or modification, or within a longer period of time deemed reasonable by the District Engineer in consultation with the Regional Administrator of the EPA. Applicants may presume that State Water Quality Standards are met with the issuance of a 401 WQC or waiver (Applicable only to the Section 404 activity).

22. Spawning, Breeding, and Migratory Areas.

a. Jurisdictional activities and impacts such as excavations, discharges of dredged or fill material, and/or suspended sediment producing activities in jurisdictional waters that provide value as fish migratory areas, fish and shellfish spawning or nursery areas, or amphibian and migratory bird breeding areas, during spawning or breeding seasons shall be avoided and minimized to the maximum extent practicable.

b. Jurisdictional activities in WOTUS that provide value as breeding areas for migratory birds must be avoided to the maximum extent practicable. The permittee is responsible for obtaining any "take" permits required under the USFWS's regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the USFWS to determine if such "take" permits are required for a particular activity.

23. Storage of Seasonal Structures. Seasonal or recreational structures such as pier sections, floats, etc., that are removed from the waterway for a portion of the year shall be stored in an upland location, located above the OHWM and not in wetlands.

24. Environmental Functions and Values. The permittee shall make every reasonable effort to carry out the construction or operation of the work authorized herein in a manner that minimizes any adverse impacts on existing fish, wildlife, and the environmental functions to the extent practicable. The permittee will discourage the establishment or spread of plant species identified as non-native invasive species by any federal or state agency.

25. Vernal Pools.

a. On projects requiring a PCN, vernal pools must be identified on the plan showing aquatic resource delineations.

b. A PCN is required if a discharge of dredged or fill material is proposed in a vernal pool located within WOTUS.

c. Adverse impacts to vernal pools, vernal pool envelopes, and critical terrestrial habitats should be avoided and minimized to the maximum extent practicable.

d. GC 25(b) and (c) do not apply to projects that are within a municipality that meets the provisions of a USACE-approved VP Special Area Management Plan (VP SAMP) and are otherwise eligible for SV, and the applicant meets the requirements to utilize the VP SAMP.

26. Invasive Species. The introduction, spread, or the increased risk of invasion of invasive plant or animal species on the project site, into new or disturbed areas, or areas adjacent to the project site caused by the site work shall be avoided. Hence, swamp and timber mats and construction equipment shall be thoroughly cleaned before reuse/relocation.

27. Permit/Authorization Letter On-Site. For PCN projects, the permittee shall ensure that a copy of these GPs and the accompanying authorization letter are at the work site (and the project office) whenever work is being performed, and that all personnel with operational control of the site ensure that all appropriate personnel performing work are fully aware of its terms and conditions. The entire permit authorization shall be made a part of any and all contracts and sub-contracts for work that affect areas of USACE jurisdiction at the site of the work authorized by these GPs. This shall be achieved by including the entire permit authorization in the specifications for work. The term “entire permit authorization” means these GPs, including general conditions and the authorization letter (including its drawings, plans, appendices and other attachments), and also includes permit modifications. If the authorization letter is issued after the construction specifications, but before receipt of bids or quotes, the entire permit authorization shall be included as an addendum to the specifications. If the authorization letter is issued after receipt of bids or quotes, the entire permit authorization shall be included in the contract or sub-contract as a change order. Although the permittee may assign various aspects of the work to different contractors or sub-contractors, all contractors and sub-contractors shall be obligated by contract to comply with all environmental protection provisions contained within the entire authorization letter, and no contract or sub-contract shall require or allow unauthorized work in areas of USACE jurisdiction.

28. Inspections. The permittee shall allow USACE to make periodic inspections at any time deemed necessary in order to ensure that the work is being or has been performed in accordance with the terms and conditions of this permit. To facilitate these inspections, the permittee shall complete and return the Work Start Notification Form and the Compliance Certification Form to

USACE when provided with a PCN verification letter. The USACE may also require post-construction engineering drawings for completed work or post-dredging survey drawings for any dredging work.

29. Maintenance. The permittee shall maintain the activity authorized by these GPs in good condition and in conformance with the terms and conditions of this permit. This does not include maintenance of dredging projects. Maintenance dredging is subject to the review thresholds in General Permit 7 in Appendix A, as well as any conditions included in a written USACE authorization. Maintenance dredging includes only those areas and depths previously authorized and dredged. Some maintenance activities may not be subject to regulation under Section 404 in accordance with 33 CFR 323.4(a)(2).

30. Property Rights. Per 33 CFR 320.4(g)(6), these GPs do not convey any property rights, either in real estate or material, or any exclusive privileges, nor does it authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations.

31. Transfer of GP Verifications. If the permittee sells the property associated with a GP verification, the permittee may transfer the GP verification to the new owner by submitting a letter to USACE to validate the transfer. A copy of the GP verification shall be attached to the letter, the letter shall contain the name, address, phone number and email of the transferee (new owner), shall include the following statement and signature, and be emailed to cenae-r-vt@usace.army.mil or mailed to: U.S. Army Corps of Engineers, Vermont Project Office, 11 Lincoln Street, Room 210, Essex Junction, Vermont 05452.

When the structures or work authorized by this general permit are still in existence at the time the property is transferred, the terms and conditions of this general permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this general permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

_____*(Transferee Printed Name)*
_____(Transferee Signature)
_____(Date)

32. Modification, Suspension, and Revocation. These GPs and any individual authorizations issued thereof may be modified, suspended, or revoked in whole or in part pursuant to the policies and procedures of 33 CFR 325.7, and any such action shall not be the basis for any claim for damages against the United States.

33. Special Conditions. The USACE may impose other special conditions on a project authorized pursuant to these GPs that are determined necessary to minimize adverse navigational and/or environmental effects or based on any other factor of the public interest. These may be based on concerns from the VT ANR, SHPO, THPO or a Federal resource agency. Failure to comply with all conditions of the authorization, including special conditions, will constitute a permit violation and may subject the permittee to criminal, civil, or administrative penalties and/or restoration.

34. False or Incomplete Information. If USACE makes a determination regarding the eligibility of a project under this permit and subsequently discovers that it has relied on false, incomplete, or inaccurate information provided by the permittee, the authorization will not be valid, and the U.S. government may institute appropriate legal proceedings.

35. Abandonment. If the permittee decides to abandon the activity authorized under this GP, unless such abandonment is merely the transfer of property to a third party, he/she may be required to restore the area to the satisfaction of USACE.

36. Enforcement cases. These GPs do not apply to any existing or proposed activity in USACE jurisdiction associated with an ongoing USACE or EPA enforcement action, until such time as the enforcement action is resolved or USACE determines that the activity may proceed independently without compromising the enforcement action.

37. Water Quality. Applicants shall satisfy any conditions imposed by the State of Vermont and EPA, where applicable, in their Clean Water Act Section 401 WQC for these GPs, or in any Individual Section 401 WQC. See Section V. for state-specific contact information and to determine if any action is required to obtain a 401 WQC. USACE may require additional water quality management measures to ensure that the authorized activity does not cause or contribute to a violation of water quality standards. All projects authorized by these GPs shall be designed, constructed and operated to minimize or eliminate the discharge of pollutants.

38. Duration of Authorization.

a. These GPs expire five years from the date issued as listed at the top of the cover sheet. Activities authorized by these GPs that have either commenced (i.e., are under construction) or are under contract to commence in reliance upon this authorization will have an additional year from the expiration date to complete the work. The permittee must be able to document to USACE's satisfaction that the project was under construction or under contract by the expiration date of these GPs. If work is not completed within the one-year extended timeframe, the permittee must contact USACE. The USACE may issue a new authorization, provided the project meets the terms and conditions of the GPs in effect at the time.

b. Activities authorized under these GPs will remain authorized until the GPs expire, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with 33 CFR 325.2(e)(2). Activities completed under the SV or PCN authorizations of these GPs will continue to be authorized after its expiration date.

V. CONTACTS FOR VERMONT GENERAL PERMITS

1. Federal

U.S. Army Corps of Engineers
New England District, Regulatory Division
Vermont Project Office
11 Lincoln Street, Room 210
Essex Junction, Vermont 05452
(802) 872-2893, (802) 879-7638 fax
www.nae.usace.army.mil/missions/regulatory
cenae-r-vt@usace.army.mil

U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109
(617) 918-1692

U.S. Fish and Wildlife Service
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087
(603) 223-2541

National Park Service
North Atlantic Region
15 State Street
Boston, Massachusetts 02109
(617) 223-5203

2. Historic Resources

State Historic Preservation Officer
Division for Historic Preservation
National Life Building
Drawer 20
Montpelier, Vermont 05620-0501
(802) 828-3211

Tribal Historic Preservation Officer
c/o Stockbridge-Munsee Community
86 Spring Street
Williamstown, Massachusetts 01267
(413) 884-6048
Area of concern: Addison, Rutland and Bennington Counties
thpo@mohican-nsn.gov

Tribal Historic Preservation Officer
c/o Wampanoag Tribe of Gay Head (Aquinnah)
20 Black Brook Road
Aquinnah, Massachusetts 02535
(508) 645-9265 THPO@wampanoagtribe-nsn.gov
Area of Concern: All Vermont counties except Addison, Rutland and Bennington

3. Vermont Agency of Natural Resources

Department of Environmental Conservation
Wetlands Program
Watershed Management Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Department of Environmental Conservation
River Management Program
Watershed Management Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Department of Environmental Conservation
Lakes and Ponds Program
Watershed Management Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Department of Environmental Conservation
Dam Safety Program
Facilities Engineering Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

Vermont Department of Fish & Wildlife
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

State endangered species
Vermont Department of Fish & Wildlife
Nongame and Natural Heritage Program
1 National Life Drive, Main 2
Montpelier, VT 05620-3522

VI. DEFINITIONS

Action Area: The "Endangered Species Consultation Handbook – Procedures for Conducting Consultation and Conference Activities Under Section 7 of the ESA," defines action area as "all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action. [50 CFR 402.02]."
Artificial Reef: A structure which is constructed or placed in waters for the purpose of enhancing fishery resources and commercial and recreational fishing opportunities.
Attendant Features: Occurring with or as a result of; accompanying.
Biodegradable: A material that decomposes into elements found in nature within a reasonably short period of time and will not leave a residue of plastic or a petroleum derivative in the environment after degradation. In contrast, degradable plastics break down into plastic fragments that remain in the environment after degradation. Examples of biodegradable materials include jute, sisal, cotton, straw, burlap, coconut husk fiber (coir) or excelsior. In contrast, degradable plastics break down into plastic fragments that remain in the environment after degradation. Photodegradable, UV degradable or Oxo- (bio)degradable plastics are not considered biodegradable under this GP.
Boating facilities: These provide, rent, or sell mooring space, such as marinas, boat/yacht clubs, boat yards, dockominiums, town facilities, etc. Not classified as boating facilities are piers shared between two abutting properties or town mooring fields that charge an equitable user fee based on the actual costs incurred.
Compensatory mitigation: The restoration (reestablishment or rehabilitation), establishment (creation), enhancement, and/or, in certain circumstances, preservation of aquatic resources for the purposes of offsetting unavoidable adverse impacts which remain after all appropriate and practicable avoidance and minimization has been achieved.
Construction mats: Construction, swamp and timber mats (herein referred to as "construction mats") are generic terms used to describe structures that distribute equipment weight to prevent wetland damage while facilitating passage and providing work platforms for workers and equipment. They are comprised of sheets or mats made from a variety of materials in various sizes. A timber mat consists of large timbers bolted or cabled together.
Currently serviceable: Useable as is or with some minor maintenance, but not so degraded as to essentially require reconstruction.
Direct effects: The loss of aquatic ecosystem within the footprint of the discharge of dredged or fill material. Direct effects are caused by the action and occur at the same time and place.
Dredged material and discharge of dredged material: These are defined at 33 CFR 323.2(c) and (d). The term "dredged material" means material that is excavated or dredged from waters of the United States.
Discharge: The term "discharge" means any discharge of dredged or fill material into waters of the United States.
Enhancement: The manipulation of the physical, chemical, or biological characteristics of an aquatic resource to heighten, intensify, or improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.
Ephemeral stream: A stream with flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Establishment (creation): The manipulation of the physical, chemical or biological characteristics present to develop an aquatic resource that did not previously exist at an upland site. Establishment results in a gain in aquatic resource area.
Expansions: Work that increases the footprint of fill, depth of basin or drainage feature, structures or floats, or slip capacity.
Fill material & discharge of fill material: These are defined at 33 CFR 323.2(e) and (f). The term fill material is defined as material placed in WOTUS where the material has the effect of either replacing any portion of a water of the U.S. with dry land or changing the bottom elevation of any portion of a water of the U.S.
Federal navigation projects (FNPs): These areas are maintained by USACE, authorized, constructed and maintained on the premise that they will be accessible and available to all on equal terms. They are comprised of USACE Federal anchorages, Federal channels and Federal turning basins. The following are FNPs in VT, and more information, including the limits, is provided at www.nae.usace.army.mil/missions/navigation and www.nan.usace.army.mil/Missions/Civil-Works/:

Burlington Harbor
Channel Between the North and South Hero Islands
Gordons Landing
Narrows of Lake Champlain
Otter Creek
St. Albans Harbor
Swanton Harbor

Flume: An open artificial water channel, in the form of a gravity chute that leads water from a diversion dam or weir completely aside a natural flow. A flume can be used to measure the rate of flow.
Historic Property: Any prehistoric or historic district, site (including archaeological site), building, structure, or other object included in, or eligible for inclusion in, the National Register of Historic Places maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization and that meet the National Register criteria (36 CFR 60).
Independent utility: A test to determine what constitutes a single and complete non-linear project in the USACE regulatory program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multi-phase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.
Indirect effects: Effects that are caused by the activity and are later in time or farther removed in distance, but are still reasonably foreseeable.
Individual Permit: A Department of the Army authorization that is issued following a case-by-case evaluation of a specific structure or work in accordance with the procedures of 33 CFR 322, or a specific project involving the proposed discharge(s) in accordance with the procedures of 33 CFR 323, and in accordance with the procedures of 33 CFR 325 and a determination that the proposed discharge is in the public interest pursuant to 33 CFR 320.
Intermittent stream: A stream with flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.
Maintenance: Maintenance does not include any modification that changes the character, scope, or size of the original fill design.

Mechanized land clearing: Land clearing activities using mechanized equipment such as backhoes or bulldozers with sheer blades, rakes or discs constitute point source discharges and are subject to section 404 jurisdiction when they take place in wetlands are waters of the U.S (Regulatory Guidance Letter 90-05).
Minor deviations: Deviations in the structure's configuration or filled area, including those due to changes in materials, construction techniques, or current construction codes or safety standards, which are necessary to make repair, rehabilitation, or replacement are permitted, provided the adverse environ-mental effects resulting from such repair, rehabilitation, or replacement are minimal.
Navigable waters of the United States: These are a subset of WOTUS and are defined at 33 CFR 329. The jurisdictional limits (33 CFR 329.11) extend laterally to the entire water surface and bed of a navigable waterbody, which include all the land and waters below OHWM. Jurisdiction thus extends to the edge (as determined above) of all such waterbodies, even though portions of the waterbody may be extremely shallow or obstructed by shoals, vegetation or other barriers. Marshlands and similar areas are thus considered navigable in law, but only so far as the area is subject to inundation by the ordinary high waters. In Vermont these waters are: the Connecticut River, Lake Champlain, Lake Memphremagog, Wallace Pond, Ompompanoosuc River (to mile 3.8), Waits River (to mile 0.9), the Black River (mouth to mile 25 in Craftsbury), the Battenkill River (to mile 50 in Manchester), the Lamoille River (mouth to mile 79 in Greensboro), the Missisquoi River (including the North Branch, from the mouth to mile 88.5 in Lowell), Otter Creek (mouth to mile 63.8 in Procter), Winooski River (mouth to Marshfield), Moose River (from Passumpsic River to the Victory Town Line), Nulhegan River (mouth to its source including the East Branch, the Black Branch and the Yellow Branch), Paul Stream (mouth to the source), East Branch of the Passumpsic River (from the confluence with the Passumpsic River to East Haven), Passumpsic River (mouth to confluence with the East Branch), White River (mouth to its source), Wells River (mouth to Groton Pond).
Ordinary High Water Mark (OHWM): A line on the shore established by the fluctuations of water and indicated by physical characteristics, or by other appropriate means that consider the characteristics of the surrounding areas. See 33 CFR 328.3(e).
Perennial stream: A stream with flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.
Practicable: Available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes.
Permanent impacts: Permanent impacts means WOTUS that are permanently affected by filling, flooding, excavation, or drainage because of the regulated activity. Permanent impacts include permanent discharges of dredged or fill material that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody.
Preservation: The removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.
Re-establishment: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former aquatic resource. Reestablishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.
Rehabilitation: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions to a degraded aquatic resource.

Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration: The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in an aquatic resource area, restoration is divided into two categories: reestablishment and rehabilitation.

Secondary effects: These are effects on an aquatic ecosystem that are associated with a discharge of dredged or fill materials, but do not result from the actual placement of the dredged or fill material. Information about secondary effects on aquatic ecosystems shall be considered prior to the time final Section 404 action is taken by permitting authorities. Some examples of secondary effects on an aquatic ecosystem are a) aquatic areas drained, flooded, fragmented, or mechanically cleared, b) fluctuating water levels in an impoundment and downstream associated with the operation of a dam, c) septic tank leaching and surface runoff from residential or commercial developments on fill, and d) leachate and runoff from a sanitary landfill located in WOTUS See 40 CFR 230.11(h).

Special aquatic sites (SAS): These include inland wetlands, mud flats, vegetated shallows (submerged aquatic vegetation), and riffle and pool complexes. These are defined at 40 CFR 230.3 and listed in 40 CFR 230 Subpart E.

Streambed: The substrate of the stream channel between the OHW marks. The substrate may be bedrock or inorganic particles that range in size from clay to boulders. Wetlands contiguous to the streambed, but outside of the OHW marks, are not considered part of the streambed.

Stream channelization: The manipulation of a stream's course, condition, capacity, or location that causes more than minimal interruption of normal stream processes. A channelized stream remains a water of the United States.

Structure: An object that is arranged in a definite pattern of organization. Examples of structures include, without limitation, any pier, boat dock, boat ramp, wharf, dolphin, weir, boom, breakwater, bulkhead, revetment, riprap, jetty, artificial island, artificial reef, permanent mooring structure, power transmission line, permanently moored floating vessel, piling, aid to navigation, or any other manmade obstacle or obstruction.

Temporary impacts: Temporary impacts include, but are not limited to, WOTUS that are temporarily filled, flooded, excavated, drained or mechanically cleared because of the regulated activity.

Utility Line: Any pipe or pipeline for the transportation of any gaseous, liquid, liquescent, or slurry substance, for any purpose, and any cable, line, or wire for the transmission for any purpose of electrical energy, telephone, data, and telegraph messages, and radio and television communication. The term "utility line" does not include activities that drain a water of the U.S., such as drainage tile or French drains, but it does apply to pipes conveying drainage from another area.

Vegetated shallows: Permanently inundated areas that under normal circumstances support communities of rooted aquatic vegetation in rivers and lakes. Note: These areas are also commonly referred to as submerged aquatic vegetation (SAV).

Vernal pools (VPs): For the purposes of these GPs, VPs are depressional wetland basins that typically go dry in most years and may contain inlets or outlets, typically of intermittent flow. Vernal pools range in both size and depth depending upon landscape position and parent material(s). In most years, VPs support one or more of the following obligate indicator species: wood frog, spotted salamander, blue-spotted salamander, marbled salamander, Jefferson's salamander and fairy shrimp. However, they should preclude sustainable populations of predatory fish.

Water diversions: Water diversions are activities such as bypass pumping (e.g., “dam and pump”) or water withdrawals. Temporary flume pipes, culverts or cofferdams where normal flows are maintained within the stream boundary’s confines aren’t water diversions. “Normal flows” are defined as no change in flow from pre-project conditions.
Weir: A barrier across a river designed to alter the flow characteristics. In most cases, weirs take the form of a barrier, smaller than most conventional dams, across a river that causes water to pool behind the structure (not unlike a dam) and allows water to flow over the top. Weirs are commonly used to alter the flow regime of the river, prevent flooding, measure discharge and help render a river navigable.
Waters of the United States (WOTUS): Waters of the United States are defined in 33 CFR 328.3. These waters include more than navigable WOTUS and are the waters where permits are required for the discharge of dredged or fill material pursuant to Section 404 of the Clean Water Act. WOTUS include jurisdictional wetlands.

From:	AOT - Power Automate
To:	Goldstein, Lee; Ramsey, Jeff; Held, JulieAnn; Keedy, Mike
Cc:	Gingras, Glenn; Eldridge, William; Swanberg, Ned (he/ki); Borg, Jaron; Ladago, Bret; Good, Shawn
Subject:	FairleeIM091-1(91) - [Project] 19 Review
Date:	Tuesday, August 5, 2025 1:59:02 PM

Do not reply to this email.

This item has been updated.

Project FairleeIM091-1(91) has been approved by Jaron.Borg@vermont.gov. The following Standard Conditions apply: .
Title-19 Standard Conditions:

1. A) The project shall be constructed as defined in the documents linked to the FairleeIM091-1(91) project in this Title 19 Share Point site. B) Any amendment to the plans which in any way affects surface waters and/or riparian corridors shall be reviewed by this office and approval received by VTrans prior to construction. C) Any construction modifications that deviate from the approved plans which in any way affects surface waters and/or riparian corridors shall be reviewed by this office and approval received by VTrans prior to the construction activity.
2. That the contractor's schedule of accomplishment of water quality related work to be submitted prior to the start of construction, and as required under general specification #105.23(a) shall include site-specific methods of operation. Temporary construction fills, check dams, silt barriers and other erosion control works shall be described and shown on pertinent plans. 4>That the Vermont Agency of Transportation general specification #105.23 addressing the control of erosion and siltation be carefully adhered to in order to minimize turbidity and other adverse impacts.
3. That the Vermont Agency of Transportation general specification #105.24 addressing pollution control be carefully followed in order to limit, if not prevent altogether, the discharge of fuel, grease, oil, raw concrete, paint, chemicals, and debris to any waters of the state.
4. An on-site pre-construction conference between the contractor, VTrans Resident Engineer and the River Management Engineer (Jaron.Borg@vermont.gov) shall be held prior to commencement of any in-stream construction. Please contact the ANR River Management Engineer listed at the top of this email to schedule the conference.
5. Approved in-stream working dates on this project are from 07/01-10/01 . Contractor proposals for construction activities in or adjacent to flowing water during the restricted period must be isolated from stream flow and must receive prior approval from the River Management Engineer.
6. The provisions of this approval shall be made a part of the construction contract.

EA: 0912091 100

Stream alteration; Agency of Transportation reviews; bridge, culvert, and high risk projects: $350.00.

ANR Permit Number: 4481

Project GUID:

STATE OF VERMONT
AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION NATIONAL
POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
INDIVIDUAL DISCHARGE PERMIT FOR STORMWATER
RUNOFF FROM CONSTRUCTION SITES

DISCHARGE PERMIT
NPDES Number: VTS007973
Permit Number: 9961-INDC

For stormwater discharges from the construction and construction-related activities associated with the construction of the **Fairlee IM 091-2(91)** project located at **Interstate 91 in Fairlee approximately 0.6 miles south of Exit 15 in Fairlee, Vermont**.

In compliance with provisions of the following state and federal laws and rules: the Vermont Water Pollution Control statutes, 10 V.S.A. Chapter 47, including § 1258, § 1259 and §1 263 the federal Clean Water Act, as amended, 33 U.S.C. § 1251 et seq., including 33 U.S.C. § 1342(p); and the regulations of the federal Environmental Protection Agency including 40 C.F.R. § 122 et seq., including 40 C.F.R. § 122.26 and 40 C.F.R. § 122.28 in accordance with terms and conditions hereinafter specified,

Permittee(s) and Co-Permittees: (All landowners and operators shall obtain coverage as co-permittees prior to the commencement of construction activities.)

Vermont Agency of Transportation
219 North Main Street
Barre, VT 05641

are hereby authorized by the Secretary of the Agency of Natural Resources (ANR), to discharge stormwater runoff from construction and construction-related activities associated with the construction of Fairlee IM 091-2(91) located at Interstate 91 in Fairlee approximately 0.6 miles south of Exit 15 in Fairlee, Vermont discharging to Morey Lake Outlet Tributary to Connecticut River.

This authorization incorporates by reference the following Erosion Prevention and Sediment Control Plan (EPSC Plan) provided by the applicant to the Secretary:

Plan Set Reference:

Stantec Consulting;

Sheet 1, "Title Sheet", dated 10/07/2025, last revised 12/03/2025;
Sheet 2, "Preliminary Information Sheet", dated 10/07/2025, last revised 12/03/2025;
Sheet 3, "Conventional Symbology Legend Sheet", dated 10/07/2025, last revised 12/03/2025;
Sheet 4, "Typical Section Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 5, "Typical Section Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 6, "Typical Section Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 7, "Layout Plan Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 8, "Layout Plan Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 9, "Layout Plan Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 10, "Layout Plan Sheet 4", dated 10/07/2025, last revised 12/03/2025;
Sheet 11, "EPSC - Phasing Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 12, "EPSC - Phasing Sheet 2, dated 10/07/2025, last revised 12/03/2025;
Sheet 13, "EPSC - Phasing Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 14, "EPSC - Phasing Sheet 4", dated 10/07/2025, last revised 12/03/2025;
Sheet 15, "EPSC - Phasing Sheet 5", dated 10/07/2025, last revised 12/03/2025;
Sheet 16, "EPSC - Phasing Sheet 6", dated 10/07/2025, last revised 12/03/2025;

Sheet 17, "EPSC Narrative Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 18, "EPSC Narrative Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 19, "EPSC - Existing Conditions Plan Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 20, "EPSC - Existing Conditions Plan Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 21, "EPSC - Existing Conditions Plan Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 22, "EPSC - Existing Conditions Plan Sheet 4", dated 10/07/2025, last revised 12/03/2025;
Sheet 23, "EPSC - Existing Conditions Plan Sheet 5", dated 10/07/2025, last revised 12/03/2025;
Sheet 24, "EPSC - Existing Conditions Plan Sheet 6", dated 10/07/2025, last revised 12/03/2025;
Sheet 25, "EPSC - Existing Conditions Plan Sheet 7", dated 10/07/2025, last revised 12/03/2025;
Sheet 26, "EPSC - Existing Conditions Plan Sheet 8", dated 10/07/2025, last revised 12/03/2025;
Sheet 27, "EPSC - Existing Conditions Plan Sheet 9", dated 10/07/2025, last revised 12/03/2025;
Sheet 28, "EPSC - Existing Conditions Plan Sheet 10", dated 10/07/2025, last revised 12/03/2025;
Sheet 29, "EPSC - Existing Conditions Plan Sheet 11", dated 10/07/2025, last revised 12/03/2025;
Sheet 30, "EPSC - Existing Conditions Plan Sheet 12", dated 10/07/2025, last revised 12/03/2025;
Sheet 31, "EPSC - Construction Plan Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 32, "EPSC - Construction Plan Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 33, "EPSC - Construction Plan Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 34, "EPSC - Construction Plan Sheet 4", dated 10/07/2025, last revised 12/03/2025;
Sheet 35, "EPSC - Construction Plan Sheet 5", dated 10/07/2025, last revised 12/03/2025;
Sheet 36, "EPSC - Construction Plan Sheet 6", dated 10/07/2025, last revised 12/03/2025;
Sheet 37, "EPSC - Construction Plan Sheet 7", dated 10/07/2025, last revised 12/03/2025;
Sheet 38, "EPSC - Construction Plan Sheet 8", dated 10/07/2025, last revised 12/03/2025;
Sheet 39, "EPSC - Construction Plan Sheet 9", dated 10/07/2025, last revised 12/03/2025;
Sheet 40, "EPSC - Construction Plan Sheet 10", dated 10/07/2025, last revised 12/03/2025;
Sheet 41, "EPSC - Construction Plan Sheet 11", dated 10/07/2025, last revised 12/03/2025;
Sheet 42, "EPSC - Construction Plan Sheet 12", dated 10/07/2025, last revised 12/03/2025;
Sheet 43, "EPSC - Final Conditions Plan Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 44, "EPSC - Final Conditions Plan Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 45, "EPSC - Final Conditions Plan Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 46, "EPSC - Final Conditions Plan Sheet 4", dated 10/07/2025, last revised 12/03/2025;
Sheet 47, "EPSC - Final Conditions Plan Sheet 5", dated 10/07/2025, last revised 12/03/2025;
Sheet 48, "EPSC - Final Conditions Plan Sheet 6", dated 10/07/2025, last revised 12/03/2025;
Sheet 49, "EPSC - Final Conditions Plan Sheet 7", dated 10/07/2025, last revised 12/03/2025;
Sheet 50, "EPSC - Final Conditions Plan Sheet 8", dated 10/07/2025, last revised 12/03/2025;
Sheet 51, "EPSC - Final Conditions Plan Sheet 9", dated 10/07/2025, last revised 12/03/2025;
Sheet 52, "EPSC - Final Conditions Plan Sheet 10", dated 10/07/2025, last revised 12/03/2025;
Sheet 53, "EPSC - Final Conditions Plan Sheet 11", dated 10/07/2025, last revised 12/03/2025;
Sheet 54, "EPSC - Final Conditions Plan Sheet 12", dated 10/07/2025, last revised 12/03/2025;
Sheet 55, "EPSC - Details Sheet 1", dated 10/07/2025, last revised 12/03/2025;
Sheet 56, "EPSC - Details Sheet 2", dated 10/07/2025, last revised 12/03/2025;
Sheet 57, "EPSC - Details Sheet 3", dated 10/07/2025, last revised 12/03/2025;
Sheet 58, "VTrans Standard E-10", dated 12/03/2025;
Sheet 59, "VTrans Standard E-11", dated 12/03/2025;
Sheet 60, "VTrans Standard E-12", dated 12/03/2025;
Sheet 61, "VTrans Standard E-13", dated 12/03/2025;
Sheet 62, "VTrans Standard E-14", dated 12/03/2025;
Sheet 63, "VTrans Standard E-15", dated 12/03/2025

PART 1: COVERAGE UNDER THIS PERMIT

1.1. Discharges Covered by this Permit

Subject to compliance with the terms and conditions of this permit, this permit authorizes the discharge[9] of pollutants[18] in stormwater[23] associated with the construction and construction-related activity[6] of Fairlee IM 091-2(91) located at Interstate 91 in Fairlee approximately 0.6 miles south of Exit 15 in Fairlee, Vermont discharging to Morey Lake Outlet Tributary to Connecticut River (hereinafter Project). This permit only applies to construction and construction-related activities performed in accordance with the approved EPSC Plan and authorizes discharges from dewatering[8] activities.

1.2. Resilience

In an effort to prepare a site for resiliency against climactic effects from major storm events, such as extreme or heavy precipitation and flood events, the permittee(s)[15] should prepare for and implement enhanced pollution[19] prevention measures and other mitigation measures to help minimize impacts to stormwater discharges from such major storm events. Recommended measures can be found in *The Vermont Standards and Specifications for Erosion Prevention and Sediment Control.*

1.3. Stormwater and Non-Stormwater Discharges Covered by this Permit

Subject to compliance with the terms and conditions of this permit which authorizes:

A. The discharge of stormwater associated with the Project as described in Subpart 1.1;

B. The discharge of stormwater designated by the Secretary[21] as needing a stormwater permit under 40 C.F.R. § 122.26(a)(9)(i)(C) or (D);

C. Discharges composed of allowable discharges listed in Subparts 1.3.A and 1.3.B commingled with:

   1. a discharge authorized by a different National Pollutant Discharge Elimination System (NPDES) permit; or
   2. a discharge that does not require NPDES permit authorization.

D. The discharge of stormwater associated with support activities referenced within the submitted EPSC Plan (such as construction staging areas, material storage areas, excavated material disposal areas, borrow areas[3], and concrete or asphalt batch plants) provided:

   1. The support activity is directly related to the construction site[5] required to have permit coverage for stormwater discharges;
   2. The support activity is not a commercial operation, nor does it serve multiple unrelated construction projects; and
   3. The support activity does not continue to operate beyond the completion of the construction activity it supports.

E. Stormwater and uncontaminated groundwater from construction dewatering activities managed and controlled by an effective best management practice[2] (BMP) for reducing sediment-laden stormwater discharges, and provided the discharge is managed in accordance with the terms and conditions of this permit; and

F. The discharge of stormwater where use of active stormwater treatments[1], including flocculants, is included in the EPSC Plan approved under this permit, or when a person[16] has obtained the Department of Environmental Conservation's (DEC) written approval in accordance with PART 3.

1.4. Limitations on Coverage

The Secretary has determined that an individual permit is required for this project. This permit does not authorize:

A. Discharges of regulated stormwater runoff from impervious surfaces regulated pursuant to Vermont's stormwater statute (10 V.S.A. § 1264) and the Stormwater Permitting Rule (Environmental Protection Rules, ch.22);

B. Discharges mixed with non-stormwater, except those discharges described in Subpart 1.3.C;

C. Stormwater discharges not associated with construction activities;

D. Non-stormwater discharges, meaning discharges that do not originate from storm events, except those discharges as described in Subparts 1.3.C and 1.3.E;

E. Stormwater discharges associated with construction activity that are covered under an alternative individual or general NPDES permit that is at least as stringent as the requirements of this permit;

F. Discharges from construction activities at or below ordinary highwater mark. These discharges may require stream alteration permit coverage pursuant to the *Vermont Stream Alteration Rule* or a federal Section 404 Army Corps of Engineers permit or both;

G. Discharges from washout of concrete, unless managed by an appropriate control as defined in *The Vermont Standards and Specifications for Erosion Prevention and Sediment Control*;

H. Discharges from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials; and

I. Discharges of fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;

1.5. Coverage of Support Activities

A. Support activities (such as construction staging areas, material storage areas, excavated material disposal areas, borrow areas, and concrete or asphalt batch plants), as authorized under Subpart 1.3.D, shall obtain coverage under this permit, with the exception of an off-site support activity that:

   1. Independently involves earth disturbance[10] of less than 1 acre; and
   2. Is located on a site owned and controlled by a party other than the project site owner or any of its affiliates. For the purposes of this condition, "control" shall mean the direction or management of the day-to-day use of the site on which the support activities are located.

B. Support activities as authorized under Subpart 1.3.D may obtain coverage as follows:

   1. As a part of the same authorization to discharge issued for the construction activity that will utilize the support activities; or
   2. As an independent authorization separate from the authorization for the construction activity that will utilize the support activities; or
   3. As an amendment to an authorization to discharge for the construction activity that will utilize the support activities, with the owner of the land where the support activities will occur added as a co-permittee.

1.6. Qualifying Local Program

Federal stormwater regulations (40 C.F.R. § 122.44(s)) provide authority for DEC to recognize Municipal Separate Storm Sewer System (MS4) construction programs that meet or exceed DEC's construction program and to incorporate such program(s) by reference in this permit. In such a case, the local program is considered a "qualifying local program" and construction site operators' compliance with the local requirements constitutes compliance with DEC's construction permit requirements. DEC has yet to formally recognize any MS4 community as having a qualifying local construction permitting program.

1.7. Co-Permittees

A. In addition to the permittee, all landowners, operators[14], On-Site Plan Coordinators (OSPC), and the EPSC Specialist associated with the construction activity, those who meet either of the following criteria must obtain coverage under this permit as co-permittee prior to the commencement of construction activities[4]:

   1. The party has operational control over construction plans and specifications, including but not limited to the ability to make modifications to those plans and specifications; or
   2. The party has continuous day-to-day operational control of those activities authorized by the permit, which shall include all construction and construction-related activities involving earth disturbance and EPSC Plan implementation.

B. Co-permittees shall be added pursuant with Subpart 4.3 of this permit.

PART 2: AUTHORIZATION REQUIREMENTS

2.1. Disturbance Limitations and Stabilization

A. The total earth disturbance associated with construction of this project is **9.94 acre(s)**. The maximum area of concurrent earth disturbance at any one time allowed under this permit is **5 acre(s)**.

B. All areas of earth disturbance must have temporary[24] or final stabilization[12] within **14 days** of initial disturbance. After this initial 14 day period, all disturbance in these areas must be temporarily or permanently stabilized in advance of any runoff producing event. A runoff producing event is an event that produces runoff from the construction site. The following exception to the above stabilization requirements applies:

   - Stabilization is not required for work conducted within a self-contained excavation—defined as an excavation with no outlet for stormwater and a depth of at least two (2) feet (e.g., for underground utility installation). This exemption applies solely to the excavated area itself and does not extend to portions of the site that drain to sediment basins.

C. This permit to discharge shall be valid for a period of five (5) years.

2.2. Pre-Construction Conferences

The permittee shall notify the Secretary of the planned start date and schedule a pre-construction conference at least two (2) weeks prior to commencing construction. The pre-construction conference shall occur prior to initiating construction activities and shall be attended by the permittee(s), OSPC, EPSC Specialist, and a representative of the Secretary. At the discretion of the Secretary, a pre-construction conference may be completed off-site from location of the project site and may also occur via video or phone conference if determined to be acceptable and preferable to all parties involved.

2.3. Requirement to Post a Notice of the Permit Coverage

The permittee shall post a notice, provided by the Secretary, demonstrating authorization under this permit (Notice of Authorization). The notice shall be placed near the construction entrance at a location visible to the public. For linear projects, the notice shall be posted at a publicly accessible location near the active part of the construction project (e.g., where a utility project crosses a public road).

2.4. Erosion Prevention and Sediment Control (EPSC) Plan

A. The EPSC Plan is incorporated by reference and included in the terms of this permit, and each permittee shall implement the provisions of the EPSC Plan, and all amendments thereto, as a condition of this permit. Failure to comply with the EPSC Plan, and all amendments thereto, shall be deemed a violation of this permit and subject to enforcement action by the DEC.

B. The permittee shall assure that construction of all sediment control practices, where proposed on site, are completed in accordance with The Vermont Standards and Specifications for Erosion Prevention and Sediment Control (The Standards) prior to upslope earth disturbance. The use of EPSC practices that are different from, or not included in, The Standards, shall be evaluated by the Secretary on a case-by-case basis before the issuance or denial of an authorization to discharge under this permit.

   1. The permittee shall assure that, prior to earth disturbance within any area of the site located within 50 feet upslope of a stream, wetland[27], silt fence, or approved perimeter control, shall be installed in accordance with *The Standards* and the EPSC Plan at an appropriate distance down slope from disturbed areas and upslope from such waters.
   2. The permittee shall install all required elements as set forth in the EPSC Plan within a given work area prior to earth disturbance within that work area. Earth disturbance includes, but is not limited to, clearing, grading, tracking, grubbing, boring, and excavating.

C. The EPSC Plan shall be amended and updated in accordance with PART 3 and Subpart 2.12.1 of this permit.

D. The permittee shall implement the EPSC Plan as written, including all amendments or revisions made pursuant to PART 3 or Subpart 2.12.1, from the commencement of construction activity until final stabilization is complete.

E. The project shall be operated and completed in accordance with the corresponding EPSC Plan and all amendments or revisions thereto.

F. The permittee is responsible for ensuring that each contractor involved in construction activity is familiar with the terms and conditions of the EPSC Plan and that each contractor's activities are carried out in accordance with the EPSC Plan.

2.5. On-Site Plan Coordinator (OSPC)

A. The permittee shall designate a person as the On-Site Plan Coordinator (OSPC) who shall be directly responsible for on-site implementation of the EPSC Plan. The OSPC is not required to be a permit applicant. The OSPC shall be knowledgeable in the principles and practice of erosion prevention and sediment control and possess the skills and training to assess conditions at the construction site that could impact stormwater quality and the effectiveness of all EPSC measures selected to control the quality of stormwater discharges from the construction activity.

B. The OSPC shall have the authority to stop or modify construction activities as necessary to comply with the EPSC Plan and the terms and conditions of this permit and shall be responsible for inspections and record keeping pursuant with Subparts 2.7, 2.8, and 2.9. The OSPC or their designee shall be on site on a daily basis during active construction to oversee implementation of the EPSC Plan and to monitor its effectiveness. The EPSC Plan shall include the OSPC site inspection schedule.

C. The name, email, and daytime telephone number of the OSPC shall be provided on the application or shall be filed in writing by email with the before the start of construction if the OSPC has not been selected at the time the application is filed.

2.6. EPSC Specialist

A. In addition to the OSPC inspections, the permittee shall designate an EPSC Specialist who will be responsible for performing environmental inspections during the project; confirming water resources protection throughout the project, assisting the permittee(s) with EPSC Plan implementation, and for related record keeping and reporting to the Secretary per the schedule established in this permit. The name, address, telephone number, email address, and basic qualifications of the person shall be provided to the Secretary for approval before the commencement of construction. The ESPC Specialist shall not be the OSPC.

B. The EPSC Specialist shall determine, confirm, and report whether the EPSC Plan Is being implemented and that the appropriate revisions or updates are being made to the EPSC Plan when the EPSC Plan proves inadequate. In addition, the EPSC Specialist shall, in conjunction with the OSPC, bear the responsibility of reviewing the site to ensure compliance with the approved EPSC Plan and direct corrective action in accordance with Subparts 2.7.G, 2.8.B, and 2.9.C of this permit.

C. The EPSC Specialist shall notify the permittee(s) and operator(s) when changes in practice are necessary to comply with the EPSC Plan and the terms and conditions of this permit.

D. The EPSC Specialist shall be responsible for inspections, photo documentation, and record keeping, and shall submit biweekly reports during earth disturbance activities to DEC Stormwater Program[22] district staff.

— If the entire site is temporarily stabilized, inspection frequency and corresponding reports may be reduced to not less than one (1) per month. Inspections may be postponed indefinitely if the entire site is at final stabilization.

E. An inspection report shall be completed for each inspection and signed by the EPSC Specialist. Each inspection report shall be prepared in consultation with the OSPC and shall include review of the OSPC's inspection reports since the last inspection period. The report may be on a form provided by the Secretary or documented in a similar format proposed by the permittee. Inspection reports shall be maintained on-site for each inspection and furnished for review by DEC representatives upon request. Each inspection report shall include:

1. Construction status;
2. Dates of inspection(s);
3. EPSC practices installed and removed since last report;
4. New measures undertaken after the prior report;
5. A description of erosion problems encountered, including resolution methods and timelines;
6. Discussion and summary of OSPC inspection reporting as described within Subparts 2.7, 2.8, and 2.9;
7. Status of the project in terms of consistency with the planned construction sequence;

8. Description of disturbed land at the time of the inspection, including location and total area (acres);
9. Description of areas temporarily or permanently stabilized since the last inspection record;
10. Changes in the EPSC Plan that are required, including submission for authorization from the Secretary when necessary;
11. When dewatering is underway, discussion and photographs of measures being utilized for treatment, and turbidity monitoring results in conformance with Subpart 2.9 of this permit;
12. Photographs of areas stabilized since the prior report;
13. Photographs of all disturbed areas;
14. Photographs of receiving water(s)[20] at turbidity monitoring location(s); and
15. All turbidity monitoring results collected since prior report in accordance with Subparts 2.8.C, and 2.9.B of this permit.

F. Prior to commencement of construction or construction-related activities, the EPSC Specialist shall present the proposed reporting format to the Secretary for approval. Construction may not commence prior to the Secretary's written approval of the reporting format and schedule for report submittal. Bi-weekly reports shall be submitted by the Wednesday following the end of each two (2) week cycle. The DEC may approve an alternative deadline for the permittee in writing. EPSC Specialist reports shall be filed via email with DEC Construction Stormwater Program district staff.

2.7. General Inspection, Maintenance, Corrective Action, and Record Keeping Requirements

A. The permittee is responsible for inspecting and maintaining in accordance with the requirements of this permit.
   1. All EPSC measures identified in the EPSC Plan shall be maintained in effective operating condition. If site inspections required by Subparts 2.7, 2.8, and 2.9 identify BMPs that are not operating effectively, maintenance shall be performed as soon as possible and before the next storm event or melt event to maintain the continued effectiveness of the measures. If implementing BMPs is impracticable before the next storm event or melt event, then the affected area shall be stabilized temporarily until such time that the BMPs can be installed.
   2. If existing BMPs need to be modified or if additional BMPs are necessary for any reason, implementation shall be completed before the next storm event or melt event. If implementing BMPs is impracticable before the next storm event or melt event, then the affected area shall be stabilized temporarily until such time that the BMPs can be installed.

B. Inspections shall be conducted at least once every seven (7) calendar days, immediately before any stormwater runoff producing event, and as required in Subpart 2.8.A of this permit.

C. During the Winter Construction Period (October 15 through April 15), daily inspections shall be conducted of areas that have been disturbed and are not yet finally stabilized.
   - If the entire site is temporarily stabilized, inspection frequency and corresponding reports may be reduced to not less than one (1) per month. Inspections may be postponed indefinitely if the entire site is at final stabilization.

D. General inspections, as referenced in Subpart 2.7, shall be conducted and documented by, or under the direction of, the OSPC.

E. Inspections shall include all areas of the site disturbed by construction activity, the perimeter of the construction site, and all discharge locations, including areas with temporary stabilization.

F. An inspection report shall be completed for each inspection and signed by the OSPC or the person acting under the direction of the OSPC. The report may be on a form provided by the Secretary or may be documented in a similar format proposed by the Permittee. Inspection reports shall be maintained on-site for each inspection and furnished for review by DEC representatives upon request. Each inspection report shall include, but is not limited to:

1. The inspection date;
2. Names and titles of personnel conducting the inspection;
3. A general description of weather information for the period since the last inspection (or since commencement of construction activity if the first inspection) including a description of any precipitation, any runoff of visibly discolored stormwater from the construction site, and any discharges of visibly discolored stormwater from the construction site to waters of the State[20];
4. Location(s) of runoff or discharges of visibly discolored stormwater to waters of the State from the construction site;
5. Location(s) of BMPs that need to be maintained;
6. Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;
7. Location(s) where additional BMPs are needed that did not exist at the time of inspection;
8. Any corrective action required including any necessary changes to the EPSC Plan and implementation dates;
9. Description of areas that are currently disturbed and areas that have been stabilized since last inspection;
10. A description of the soil conditions (e.g., dry, wet, saturated); and
11. A certification that the construction activities are in compliance with the EPSC Plan and this permit, or, if a certification of compliance cannot be provided at the time of inspection, the inspection report shall specifically identify non- compliance with the EPSC Plan and provide a schedule and corrective actions required for achieving full compliance.

G. Corrective Action:

1. If, after completing the actions required in Subpart 2.7.F above, a discharge of visibly discolored stormwater from the construction site to waters of the State is observed, the permittee shall notify DEC by submitting a Discharge Report within 24 hours of discovering the discharge. The report shall be on a form available from the Stormwater Program.
2. If there is a repeated or an ongoing sediment discharge to waters of the State, DEC may determine that a different set of BMPs must be implemented. The permittee shall take all corrective actions requested by DEC including installing and implementing alternative or additional BMPs to correct the discharge.

H. Record Keeping:

1. The following records shall be maintained on-site with the authorized EPSC Plan:
   a. Inspection reports prepared pursuant to Subpart 2.7.F;
   b. Discharge Reports prepared pursuant to Subpart 2.8;

c. Dewatering Reports prepared pursuant to Subpart 2.9.B;

d. Any Notice of Winter Construction in accordance with Subpart 2.10;

e. Any reports of releases of reportable quantities of oils or hazardous substances[13] in accordance with Subpart 7.4;

f. Notices of Addition or Removal of Co-Permittees submitted to the Secretary in accordance with Subpart 4.3;

g. Any Notices of Termination for portions of an on-going construction project in accordance with Subpart 4.4;

h. Any amendments or revisions to the EPSC Plan required by this permit; and

i. Documentation and reports prepared pursuant to Subparts 3.2, 3.3, 3.4, and 3.5.

2. The permittee shall retain all records in accordance with Subpart 7.6.

2.8. Discharge Inspection, Corrective Action, and Sampling Requirements

As soon as reasonably possible, during, or after, every rainfall event or snowmelt event which produces runoff from the construction site, the OSPC shall:

A. Inspect for runoff of visibly discolored stormwater from the construction site, including from dewatering operations. If there is runoff of visibly discolored stormwater from the construction site, the OSPC shall as soon as practicable inspect and maintain BMPs for compliance with the approved EPSC plan.

B. **Corrective Action:**

1. If after inspecting and maintaining existing BMPs in accordance with Subpart 2.8.A, the runoff of visibly discolored stormwater continues, the OSPC shall determine whether such runoff of visibly discolored stormwater from the construction site is discharging to waters of the State. If the continuing runoff is not discharging to waters of the State, the OSPC shall supplement BMPs as necessary to minimize and prevent the runoff of visibly discolored stormwater and shall continue to inspect, maintain, and supplement BMPs;

2. If the runoff of visibly discolored stormwater continues after taking the steps in Subpart 2.8.B.1 and the runoff is discharging to waters of the State, the OSPC shall immediately evaluate the need for supplemental BMPs and install such BMPs as necessary to correct or eliminate the discharge. If after supplementing existing BMPs, the discharge of visibly discolored stormwater to waters of the State continues, then the OSPC shall sample the discharge as set forth in Subpart 2.8.C.

C. **Sample Requirements:**

a. Samples shall be representative of the flow and characteristics of the discharge. Sampling shall be conducted in accordance with written guidance available from the Stormwater Program.

b. If due to unexpected circumstances an OSPC or their designee is unable to sample during periods of runoff, the monitoring report shall include a brief explanation of such circumstances.

c. Sampling is required at all points where visibly discolored stormwater runoff from disturbed areas that have not been finally stabilized discharges to waters of the State.

d. All sampling points shall be identified on the EPSC Plan site map and be clearly marked in the field with a flag, tape, stake, or other visible marker.

1. If the turbidity sample taken is 25 NTU or lower, no further sampling or action is required during this particular event.

2. If the turbidity sample taken is greater than 25 NTU:
    a. The OSPC shall as soon as practicable evaluate the need for supplemental BMPs and install such BMPs as necessary to correct the discharge(s); and
    b. The OSPC shall, within 24 hours of first discovering the discharge(s), submit a written report about the discharge(s) and resulting corrective action to the Secretary. The report shall:
    i. Be on a form provided by the Stormwater Program;
    ii. Describe the cause, time and date, and location of the discharge(s);
    iii. Describe the status of construction and conformance with the EPSC Plan at the time of the discharge(s);
    iv. Detail the corrective action taken to stop the discharge(s), including a description of the actions taken, their location, and the time and date of the corrective action; and
    v. Be copied and a copy retained on-site with the EPSC Plan.
3. The EPSC Plan shall be updated within 72 hours to reflect the actions taken.
4. After taking the actions required in Subpart 2.8.C.2.a above,-the OSPC shall again follow the inspection and sampling requirements in Subpart 2.8.B.2 above. If the turbidity sample is 25 NTU or lower, then no further action is needed. If the turbidity sample is greater than 25 NTU, the OSPC shall immediately notify the Stormwater Program. DEC may require the OSPC to reevaluate existing BMPs and install supplemental BMPs as necessary to correct the discharge. At the Secretary's discretion, DEC may also require the OSPC to continue sampling discharges when discharges are occurring until:
    a. Turbidity is 25 NTU or lower; or
    b. The runoff stops or is eliminated.

2.9. Dewatering Inspection, Corrective Action, and Sampling Requirements

The Permittee shall meet dewatering requirements by adhering to the following inspection requirements, sampling discharges, and taking corrective actions necessary to ensure compliance with this permit.

A. **Dewatering Requirements:**

1. Route dewatering water through a sediment control (e.g., sediment trap or basin, pumped water filter bag) designed to prevent discharges with visual turbidity;
2. Do not discharge visible floating solids or foam;
3. The discharge must not cause the formation of a visible sheen on the water surface, or visible oily deposits on the bottom or shoreline of the receiving water. Use an oil-water separator or suitable filtration device (such as a cartridge or filter) designed to remove oil, grease, or other products if dewatering water is found to or expected to contain these materials;
4. To the extent feasible, use well-vegetated (e.g., grassy or wooded), upland areas of the site to infiltrate dewatering water before discharge. You are prohibited from using receiving waters as part of the treatment area;
5. To prevent dewatering-related erosion and related sediment discharges;
    a. Use stable, erosion-resistant surfaces (e.g., well vegetated grassy areas, clean filter stone, geotextile underlayment) to discharge from dewatering controls;
    b. Do not place dewatering controls, such as pumped water filter bags, on slopes 3:1 or greater, and

6. Replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications; and
7. Comply with dewatering specific inspection requirements Subpart 2.9.B.

B. **Dewatering Inspection and Turbidity Monitoring Requirements:**

A permittee is responsible for conducting an inspection during a dewatering related discharge once per day on which the discharge occurs. The Subpart 2.7 inspection frequency still applies to all other portions of the site. The dewatering report shall be on a form available from the Stormwater Program.

1. Sampling location. Samples must be taken at all points where dewatering water is discharged. Samples must be taken after the dewatering water has been treated by installed treatment devices and prior to its discharge off site into a receiving water, constructed or natural site drainage feature, or storm drain inlet.
2. Test methods. Samples must be measured using a turbidity meter that reports results in nephelometric turbidity units (NTUs). You are required to use the meter, and conduct a calibration verification prior to each day's use, consistent with the manufacturer's instructions.

C. **Corrective Action:**

1. If, after completing the actions required in Subpart 2.9.B above, a discharge of discolored stormwater from the construction site to waters of the State is observed, the permittee shall notify DEC by submitting a Discharge Report within 24 hours of discovering the discharge. The report shall be on a form available from the Stormwater Program.
2. If there is a repeated or an ongoing sediment discharge to waters of the State, DEC may determine that a different set of BMPs must be implemented. The permittee shall take all corrective actions requested by DEC including installing and implementing alternative or additional BMPs to correct the discharge.

2.10. Winter Construction

A. If construction activities involving earth disturbance continue past October 15 or begin before April 15 (Winter Construction Period), the permittee shall implement Winter Construction EPSC practices as outlined in the EPSC Plan and as identified in *The Standards*.

B. If a permittee plans to undertake construction activities during the Winter Construction Period and the EPSC Plan does not identify EPSC measures during this period, the permittee shall submit a stand-alone EPSC Plan to the Secretary for formal approval prior to undertaking such activities. The submission shall include a narrative description of the proposed work and the stand-alone EPSC Plan shall include only this work. The stand-alone EPSC Plan shall be designed according to *The Standards*.

C. All possible measures will be taken to limit the exposure of soils during winter construction activities. The Secretary reserves the right to require suspension of construction activities until after April 15 if winter construction is determined to present a significant risk to water quality. Also, the Secretary reserves the right to prohibit construction activities from October 15 through April 15 if construction activity during the Winter Construction Period is determined to present a significant risk to water quality.

D. When site conditions occurring outside of the Winter Construction Period are similar to winter conditions (e.g., snow cover, frozen ground and/or saturated soils) within the areas of planned earth disturbance, the appropriate winter restrictions from *The Standards* selected by the OSPC shall be applied to the portions of the site that are experiencing those conditions.

2.11. Availability of Documentation On-Site

A. A copy of the authorized EPSC Plan and all other required items described in Subpart 2.7.H of this permit shall be kept on-site during normal working hours from the date of commencement of construction activities to the date of final stabilization.

B. The OSPC shall maintain a copy of the EPSC Plan and all revisions made in accordance with PART 3 of this permit at a central location on-site for the use of all those identified as having responsibilities under the EPSC Plan whenever they are on the construction site. If an on-site location is unavailable to store the EPSC Plan when no personnel are present, notice of the plan's location shall be posted near the main entrance to the construction site.

C. EPSC Plans and all items described in Subpart 2.7.H of this permit shall be made available upon request by DEC representatives. The copy of the EPSC Plan and all items described in Subpart 2.7.H required to be kept on-site or locally available shall be made available, in their entirety, to DEC representatives for review and copying at the time of an on-site inspection by such representatives.

2.12. DEC Inspections

The permittee shall allow DEC, or an authorized representative of DEC, to conduct the following activities at reasonable times. To the extent that you are utilizing shared controls, that are not on site, to comply with this permit, you must make arrangements for DEC to have access at all reasonable times to those areas where the shared controls are located.

A. Enter onto all areas of the site, including any construction support activity areas covered by this permit, any off-site areas where shared controls are utilized to comply with this permit, discharge locations, adjoining waterbodies, and locations where records are kept under the conditions of this permit;

B. Access and copy any records that must be kept under the conditions of this permit;

C. Inspect your construction site, including any construction support activity areas covered by this permit, any stormwater controls installed and maintained at the site, and any off-site shared controls utilized to comply with this permit; and

D. Sample or monitor for the purpose of ensuring compliance.

2.12.1 Modifications to the EPSC Plan Identified as Necessary During Inspections

A. If, based upon inspections or investigations by a DEC representative the DEC representative determines that the EPSC Plan will not be sufficient to prevent discharges of visibly discolored stormwater from the construction site to waters of the State, the permittee shall modify the BMPs and EPSC Plan as necessary or as directed to include additional or modified BMPs designed to correct the problems identified. Revisions to the BMPs and EPSC Plan shall be completed and implemented within 72 hours following the inspection or investigation.

B. At any time after issuing this permit, the Secretary may, in their sole discretion, determine that a stormwater discharge may cause, has reasonable potential to cause, or contribute to a violation of Vermont’s Water Quality Standards, as it pertains to the conditions of this permit. If such a determination is made, the Secretary will require the permittee to:

1. Implement and modify BMPs and revise the EPSC Plan, if applicable, to address adequately the identified water quality concerns.
2. Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining the Vermont Water Quality Standards; or
3. Cease discharges of pollutants to surface waters from the construction activity.

C. Each revised EPSC Plan prepared pursuant to this Part shall be submitted to the Secretary and maintained on-site by the permittee.

D. Your discharge must be controlled as necessary to meet applicable water quality standards (i.e., your discharge must not cause or contribute to an exceedance of applicable water quality standards). The Secretary expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards. If at any time you become aware, or the Secretary determines, that your discharge does not meet applicable water quality standards, you must take corrective action(s) as required in PART 2 and document the corrective actions as required in PART 2. You must also report any Anticipated Noncompliance or Other Noncompliance in accordance with Subpart 3.4 and Subpart 3.5 of this Permit. The Secretary may also require that you undertake additional control measures[7] (to meet the requirements of this permit) on a site-specific basis or require you to obtain coverage under an individual permit, if information in your application, required reports, or from other sources indicates that your discharges are not controlled as necessary to meet applicable water quality standards. You must implement all measures necessary to be consistent with an available wasteload allocation in an EPA-established or approved total maximum daily load[25] (TMDL).

2.13. Presumption of Compliance

Unless site specific information demonstrates that a discharge causes or contributes to a violation of water quality standards, compliance with the Vermont Water Quality Standards shall be presumed when the permittee is:

A. In full compliance with all permit conditions; and

B. Fully implementing stormwater BMPs as required by the permit.

PART 3: PROJECT CHANGES

3.1. Project Changes that Require an Amendment to the Permit

Prior to a project change that results in any of the following conditions, the Permittee shall obtain an amendment to its existing authorization:

A. All project changes determined by the Secretary to present a reasonable potential to cause or contribute to water resource impacts.

B. Total project-related earth disturbance increases by more than 10 percent of the previously authorized total;

C. The amount of concurrent earth disturbance increases;

D. The effectiveness or length of vegetated buffers[26] between the construction site earth disturbance and the receiving waters decreases, such that the risk score calculated in the *Appendix A – Risk Evaluation* of *Vermont's Construction General Permit 3-9020* increases; or

E. The slope or erodibility of soils within the limits of disturbance increases, such that the risk score calculated in the *Appendix A – Risk Evaluation* of *Vermont's Construction General Permit 3-9020* increases.

Note: Previously authorized construction activities may continue before an amended permit for a project change is issued.

3.2. Project Changes That Do Not Require a Permit Amendment

The following project changes are allowed without an amendment of the permit:

A. Use of interchangeable practices found in *The Standards*.

B. A change that increases the total project-related earth disturbance by 10 percent or less than the previously authorized total, provided that;

1. The increased total project-related earth disturbance does not increase the risk as calculated in the *Appendix A – Risk Evaluation* of *Vermont's Construction General Permit 3-9020*, in consideration of all other risk factors or risk mitigation factors.

2. The permittee shall document this type of change on a Stormwater Program form established for tracking this type of change, which shall include a reevaluation of the project construction activity under the *Appendix A – Risk Evaluation* of *Vermont's Construction General Permit 3-9020*. This documentation shall be completed and maintained on site with the permittee's existing authorization, prior to implementation of the change.

C. The use of active stormwater treatments, including flocculants, provided a permittee has obtained the Secretary's written approval and has revised any EPSC Plan applicable to the project.

1. When the use of active stormwater treatments, including flocculants, was not previously approved as part of an existing authorization, a permittee shall submit in writing a request for DEC's written approval, including a detailed description of the proposed use of active stormwater treatments and any additional information requested by DEC.

2. The use of active stormwater treatments, including flocculants, shall not occur until the permittee has received written approval from DEC for such use.

3.3. Planned Changes

The permittee shall give notice to the Secretary as soon as possible of any planned physical alterations or additions to the permitted facility or activity[11]. Notice is required when:

A. The alteration of addition may meet one of the criteria for determining whether a facility is a new source[17]; or

B. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants specifically included in the permit and pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements.

3.4. Anticipated Noncompliance

The permittee shall give advance notice to the Secretary of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3.5. Other Noncompliance

A. Twenty-four hour reporting: The permittee shall report to the Secretary any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A report shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The report shall contain:

1. A description of the noncompliance and its cause;

2. The period of noncompliance, including exact dates and times;

3. If the noncompliance has not been corrected, the anticipated time it is expected to continue;

4. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and

5. Any additional information required to be reported under Stormwater Permitting Rule § 1201(b)(13)(C)(ii) (Environmental Protection Rules, Ch. 22), unless waived by the Secretary, and provided the oral report has been received within 24 hours.

B. The permittee shall report all instances of noncompliance, not otherwise required to be reported under this permit, at the time monitoring reports are submitted, or if monitoring is not required, at least annually. The report shall contain:

1. A description of the noncompliance and its cause;
2. The period of noncompliance, including exact dates and times;
3. If the noncompliance has not been corrected, the anticipated time it is expected to continue; and
4. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

3.6. Other Information

If a permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Secretary, it shall promptly submit such facts or information.

PART 4: EXPIRATION OF PERMIT, TRANSFERS OF PERMIT, CO-PERMITTEES, AND TERMINATION

As construction sites develop over time, changes in owners and operators may occur either for the entire site or portions of the site. This Part provides flexibility for modifying, transferring, or terminating permit coverage as owners/operators change and specifically allows for partial termination of permit coverage. For example, if the developer of a subdivision sells an individual lot, the new individual lot owner may obtain permit coverage for its lot only, and the developer may then terminate its permit coverage for that lot.

4.1. Duty to Reapply and Continuation of Expiring Permit

A. The permittee shall reapply for coverage under a new permit 60days prior to the expiration date of this permit if the project has not achieved final stabilization or if construction activities are expected after the expiration date of the permit.

B. When a permittee has submitted an administratively complete application for an activity of a continuing nature prior to the expiration of this permit, the existing permit shall not expire until the Secretary has made a final determination with respect to the application, and in case the application is denied or the terms of the new permit limited, until the last day for seeking review of the Secretary's decision or a later date fixed by order of the reviewing court. An "activity of a continuing nature" means an activity for which the permit sought authorizes the continued operation of a permitted activity but does not include a permit to construct a new, or the expansion of an existing, activity.

4.2. Transfer of Permit Coverage

A. A transfer of this permit may occur only in connection with the transfer of the entire construction site to a new owner.

B. A Notice of Transfer must be submitted to the Secretary not later than 30 days prior to the transfer and shall include the following:

1. The name and address of the present permittee;
2. The name and address of the prospective permittee;
3. The proposed date of permit transfer; and

4. A statement signed by the prospective permittee, stating that:
   a. The conditions of the project that contribute to or affect any discharge will not be materially different under the new ownership;
   b. They have read and are familiar with the terms of the permit and agree to comply with all the terms and conditions of the permit; and
   c. They have adequate funding or other means to effect compliance with all the terms of the permit.

C. A. This permit may be automatically transferred to a new permittee if:
1. The current permittee notifies the Secretary at least 30 days in advance of the proposed transfer date;
2. The notice includes a written agreement between the current permittee and proposed permittee containing:
   a. The name and address of the current permittee;
   b. The name and address of the proposed permittee;
   c. A specific date for transfer of permit responsibility, coverage, and liability between them; and
   d. A statement, signed by the proposed permittee, stating that the proposed permittee has read and is familiar with the terms of the permit and agrees to comply with all terms and conditions; and
3. The Secretary does not notify the current permittee and the proposed new permittee of the Secretary's intent to amend or revoke and reissue the permit.

4.3. Adding or Terminating Co-Permittees

A. An additional owner or operator shall be added as a co-permittee by filing a Notice of Addition of Co-Permittee with the Secretary. The co-permittee shall be subject to all the terms and conditions of this permit and the EPSC Plan.

B. An owner or operator may be terminated as a co-permittee by filing a Notice of Termination of Co-Permittee with the Secretary.

C. The Notice of Addition of Co-Permittee form and the Notice of Termination of Co-Permittee forms are available from the Stormwater Program.

4.4. Notice of Termination for Portions of an On-going Construction Site

A. A permittee may submit a Notice of Termination (NOT) for a portion of an on-going construction site in the following instances:
1. When final stabilization has been achieved on the portion of the site for which termination is sought;
2. When title to a portion of the construction site has been transferred to a new owner and the new owner has obtained separate coverage under the *Vermont's Construction General Permit 3-9020* or an individual construction permit; or
3. When another operator has assumed control over the portion of the site for which termination is sought and the new operator has obtained coverage under the *Vermont's Construction General Permit 3-9020* or an individual construction permit.

B. To obtain a Notice of Termination for a portion of an on-going construction site, the permittee shall follow the requirements of Subpart 4.6 of this permit.

4.5. Notice of Termination for the Entire Construction Site

Until coverage under this permit is terminated or expired, you must comply with all conditions in the permit. To terminate permit coverage, you must submit to DEC a complete and accurate Notice of Termination (NOT), which certifies that you have met the requirements for terminating.

A. A permittee shall submit a NOT for an entire construction site in the following instances:

   1. Final stabilization has been achieved on the entire construction site for which the permittee is responsible;
   2. Another operator has assumed control over all areas of the site that have not been finally stabilized and has obtained permit coverage; or
   3. Coverage under the *Vermont's Construction General Permit 3-9020* or an individual construction permit has been obtained.

B. To obtain a notice of termination for an entire construction site, the permittee shall follow the requirements of Subpart 4.6 of this permit.

4.6. Submitting a Notice of Termination

A. A permittee shall submit a complete and accurate Notice of Termination (NOT), on a form provided by the Stormwater Program.

B. An NOT shall include, at a minimum, the following information:

   1. The permit number for which termination is sought;
   2. The basis for submission of the NOT;
   3. The owner's and operator's name, address, and telephone number;
   4. The name of the project and address (or a description of location if no street address is available) of the construction site for which the notification is submitted; and
   5. A certification statement, signed and dated by the OSPC, EPSC Specialist, and by the permittee, or an authorized representative of the permittee, indicating that the site meets the conditions in Subparts 4.4 or 4.5 of this permit.

If the NOT is for only a portion of an ongoing construction project, a description of the portion of the site to which the NOT will apply.

4.7. Transfer of a Portion of a Site to a New Owner

If portions of a construction site are transferred to a new owner prior to final stabilization, then one of the following procedures must be followed:

A. A. The new owner must apply to be a co-permittee pursuant to Subpart 4.3 above; or

B. A. The new owner must obtain separate coverage under *Vermont's Construction General Permit 3-9020* or an individual construction permit for the transferred portion of the site and the original permittee must terminate coverage for that same portion pursuant to Subparts 4.4. In order for the new owner to obtain permit coverage, the transferred portion of the site must first be rescored in accordance with the *Appendix A – Risk Evaluation* of *Vermont's Construction General Permit 3-9020*.

PART 5: LEGAL AUTHORITIES

This permit is issued in accordance with the following state and federal laws and regulations: the Vermont Water Pollution Control statute, 10 V.S.A. Chapter 47, including §1258, §1259 and §1263; the federal Clean Water Act, as amended, 33 U.S.C. 1251 et seq., including 33 U.S.C. §1342(p); and the regulations of the federal Environmental Protection Agency including 40 C.F.R. §122 et seq., including 40 C.F.R. 122.26 and 40 C.F.R. §122.28 and related federal regulations.

PART 6: ANTI-DEGRADATION

This permit is issued in accordance with the Department of Environmental Conservation's Anti-Degradation Policy and the Interim Anti-Degradation Implementation Procedure, dated October 12, 2010 (the Procedure).

This permit relies upon *The Standards* as a manual, and a site specific ESPC Plan of best management practices (BMPs). These documents take into account anti-degradation requirements, including consideration of the socioeconomic effects of requiring certain BMPs. The Secretary has determined, through deployment of a BMP-based construction stormwater program for more than ten (10) years and through multiple permit cycles of a Stormwater Construction General Permit, that the BMPs included in *The Standards* are known to be sufficiently protective of waters, and that imposition of more stringent BMP requirements in these standards would result in adverse economic impacts, borne statewide, that would be unwarranted given the absence of information to suggest that more stringent controls are necessary.

For projects fully implementing the BMPs contained in *The Standards* and the site specific EPSC Plan, while in full compliance with this permit, the Secretary anticipates no lowering of water quality, and the project permittees shall be presumed to meet the Anti-degradation Policy absent credible and relevant project or site-specific information rebutting the presumption.

PART 7: ADDITIONAL PERMIT CONDITIONS

7.1. Inclusion of Permit Requirements in Another NPDES Permit

The requirements of this permit may be included in an alternative NPDES general permit or NPDES individual permit issued for a facility provided that the requirements of the alternative NPDES general permit or individual permit are at least as stringent as this permit.

7.2. Amendment, Revocation and Reissuance, and Termination of This Permit

This permit may be modified, revoked and reissued, or terminated for cause as set forth in Stormwater Permitting Rule § 22-310 (Environmental Protection Rules, Ch. 22). The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7.3. Limitations

A. This permit conveys no vested rights or exclusive privileges. The permit conveys no title to land nor authorizes any injury to public or private property. The permit does not authorize infringement of any applicable federal, state, or local laws or regulations nor obviate the necessity of obtaining such additional permits as may be required.

B. Nothing in this permit shall be construed as having relieved, modified, or in any manner affected the permittee's ongoing obligation to comply with all other federal, state, or local statutes, regulations, or directives applicable to the permittee in the operation of its business, nor does it relieve the permittee of the obligation to obtain all necessary federal, state, and local permits.

7.4. 1.1. Prohibitions

A. This permit does not relieve any person of the federal reporting requirements of 40 C.F.R. Part 110, 40 C.F.R. Part 117, and 40 C.F.R. Part 302 relating to spills or other releases of oils or hazardous substances. Nothing in this permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under 10 V.S.A. § 1281. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

B. If a release of oil or hazardous substances in excess of reportable quantities occurs, the permittee must modify the EPSC Plan within seven (7) calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. The EPSC Plan must identify measures to prevent the reoccurrence of such releases and to respond to such releases.

C. Discharges of any material other than stormwater, such as vehicle and equipment maintenance spills, fuels, wash water, construction debris, oil, wet concrete (including washout water from concrete batch trucks or equipment used to mix concrete), and other substances are prohibited.

D. Sediments and other pollutants collected and removed in the course of treatment of stormwater runoff shall be disposed in a manner that will not result in the sediments and pollutants entering waters of the State.

7.5. Right of Entry

The permittee shall allow the Secretary and their authorized representatives, at reasonable times, and upon presentation of credentials, to:

A. Enter upon and inspect the property on which the construction activities are occurring or the premises where records must be kept under the conditions of this permit;

B. Have access to and copy, at reasonable times, any records required to be kept pursuant to the permit;

C. Inspect at reasonable times any facilities, equipment – including monitoring and control equipment – practices, or operations regulated or required under this permit; and

D. Sample or monitor at reasonable times any construction-related discharges.

7.6. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit for a period of at least five (5) years from the date of the sample, measurement, report, or application, in accordance with Stormwater Permitting Rule § 1201(c) (Environmental Protection Rules, Ch. 22). This period may be extended by request of the Secretary at any time.

7.7. Reopener Clause

If there is evidence indicating that the stormwater discharges authorized by this permit cause or have the reasonable potential to cause or contribute to a violation of the Vermont Water Quality Standards, as referenced throughout this permit, the Secretary may modify the authorization to discharge to include different limitations and requirements in accordance with Subpart 2.12.B of this permit.

7.8. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

7.9. Duty to Mitigate

A permittee must take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

7.10. Signatory Requirements

A. All applications must be signed as follows:

1. For a corporation: by a responsible corporate officer. For the purposes of this section, a responsible corporate officer means:
    a. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
    b. The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
3. For a municipality, State, Federal or other public agency: by either a principal executive officer or a ranking elected official. For purposes of this requirement, a principal executive officer of a Federal Agency includes:
    a. The chief executive officer of the agency; or
    b. A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

B. All reports required by this permit must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described in Subpart 7.10.A;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position); and

3. The signed and dated written authorization is included in the EPSC Plan. A copy must be submitted to the Secretary, if requested.

C. Any person signing documents required under the terms of this permit must include the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

7.11. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control, and related appurtenances, which are installed or used by the permittee to achieve compliance with the conditions of this permit, in accordance with Stormwater Permitting Rule § 1201(b)(8) (Environmental Protection Rules, Ch. 22).

7.12. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART 8: VIOLATION OF PERMIT REQUIREMENTS; ENFORCEMENT

A. This permit contains eligibility restrictions as well as permit conditions and requirements. Certain actions may need to be taken to be eligible for coverage under this permit. In such cases, a permittee must continue to satisfy those eligibility provisions to maintain permit authorization. If the requirements that are a precondition to eligibility are not met, then resulting discharges constitute unpermitted discharges.

B. The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of 10 V.S.A. Chapter 47 and the federal Clean Water Act and is grounds for an enforcement action; for permit termination, revocation, or modification; or denial of a permit application.

C. The Secretary may obtain a "stop work" order pursuant to 10 V.S.A. Chapters 47 and 201 when the Secretary determines that a violation exists. Such order may also require the permittee and any person involved in the construction activity to take all actions to prevent or correct the discharge or potential discharge. Any action taken by the Secretary pursuant to this Subpart shall not limit the Secretary's authority to pursue other enforcement actions pursuant to 10 V.S.A. Chapters 47 and 201.

D. Violations of the terms and conditions of this permit are subject to civil and criminal penalties pursuant to 10 V.S.A. §§ 1274 and 1275 and administrative enforcement pursuant to 10 V.S.A. § 1272 and Chapters 201 and 211, and EPA retains authority to enforce violations of the Clean Water Act (CWA) pursuant to Section 309 of the CWA. Penalties, subject to statutory change, include:

1. 10 V.S.A. § 1275(a) provides that:

   Any person who violates any provision of this subchapter or who fails, neglects, or refuses to obey or comply with any order or the terms of any permit issued in accordance with this subchapter, shall be fined not more than $25,000.00 or imprisoned not more than six (6) months, or both. Each violation may be a separate offense, and, in the case of a continuing violation, each day's continuance may be deemed a separate offense.

2. 10 V.S.A. § 1275(b) provides that:

   Any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained under this subchapter, or by any permit, rule, regulation or order issued under this subchapter, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this subchapter or by any permit, rule, regulation, or order issued under this subchapter, shall upon conviction, be punished by a fine of not more than $10,000.00 or by imprisonment for not more than six (6) months, or by both.

3. 10 V.S.A. § 8010(c)(1) provides that:

   A penalty of not more than $42,500.00 may be assessed for each determination of a separate violation. In addition, if the Secretary determines that a violation is continuing the Secretary may assess a penalty of not more than $17,000.00 for each day the violation continues. The maximum amount of penalty assessed under this subsection shall not exceed $170,000.00.

PART 9: APPEALS

A. Pursuant to 10 V.S.A. Chapter 220, an aggrieved person shall not appeal this permit unless the person submitted to the Secretary a written comment during the applicable public comment period or an oral comment at the public meeting conducted by the Secretary. Absent a determination of the Environmental judge to the contrary, an aggrieved person may only appeal issues related to the person's comments to the Secretary as prescribed by 10 V.S.A. § 8504(d)(2).

   Pursuant to 10 V.S.A. Chapter 220 and the Vermont Rules for Environmental Court Proceedings, any appeal of this permit or an authorization made pursuant to this permit, except for an appeal of a renewable energy plant as described in subpart (B) below, must be filed with the clerk of the Environmental Division of the Superior Court within 30 days of the date of the decision. The notice of appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Division; and must be signed by the appellant or the appellant's attorney. In addition, the appeal must give the address or location and description of the property, project, or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the notice of appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings.

B. If the subject decision relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. § 248, any appeal of such decision must be filed with the Vermont Public Utility Commission pursuant to 10 V.S.A. § 8506. Section 8506 does not apply to a facility that is subject to 10 V.S.A. § 1004 (dams before the Federal Energy Regulatory Commission), 10 V.S.A. § 1006 (certification of hydroelectric projects), or 10 V.S.A. Chapter 43 (dams). Any appeal under Section 8506 must be filed with the clerk of the Public Utility Commission within 30 days of the date of this decision; the appellant must file with the clerk an original and six (6) copies of its appeal. The appellant shall provide notice of the filing of an appeal in accordance with 10 V.S.A. § 8504(c)(2) and shall also serve a copy of the notice of appeal on the Vermont Public Service Department. For further information, see the Rules and General Orders of the Public Utility Commission.

PART 10: EFFECTIVE DATE OF PERMIT AND PERMIT TERM

This permit shall become effective on January 6, 2026 and shall expire on January 5, 2031. The permittee shall reapply for coverage at least 60 days prior to the expiration if the project has not achieved final stabilization or if the construction activities are expected after the date of expiration.

Dated January 06, 2026

Julie Moore, Secretary

Agency of Natural Resources

By:



Thomas A. Benoit Sr., Construction and Industrials Section Supervisor
Stormwater Program

DEFINITIONS

1. **"Active Stormwater Treatment"** means the treatment of construction stormwater using chemical additions, including coagulants and flocculants.
2. **"Best Management Practice"** or **"BMP"** means a schedule of activities, prohibitions or practices, maintenance procedures, green infrastructure, and other management practices to prevent or reduce water pollution.
3. **"Borrow Area"** means the area where materials are excavated for use as fill.
4. **"Commencement of Construction Activity"** means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction-related activities (e.g., stockpiling of fill material).
5. **"Construction Site"** means the land or water area where any facility or activity is physically located or conducted, including adjacent land used in connection with the facility or activity, such as material and equipment staging areas and waste or borrow areas, and the area of earth disturbance directly associated with the permitted construction activity.
6. **"Construction-Related Activity"** or **"Construction Activity"** means all earth disturbing activities as a result of or incidental to the installation or alteration of buildings, structures, infrastructure, roads and utilities that will result in the disturbance of one or more acres of land area or less than one acre of land area that is part of a common plan of development or sale that will ultimately disturb equal to or greater than one acre of land area. Any earth disturbing activities within existing natural communities like wetlands, wildlife habitats, streams, water sources, etc. shall be considered in any construction activity. Earth disturbance that is a normal part of the long-term use or maintenance of a property that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility is not covered by this permit (e.g., mining operations, dirt road re-grading, routine road resurfacing, utility line maintenance/repair). For mining operations, "construction activity" means the construction, exploration, or reclamation phase, not the active mining phase.
7. **"Control Measure"** as used in this permit, refers to any BMP or other method used to prevent or reduce the discharge of pollutants to waters of the State.
8. **"Dewatering"** means the act of draining rainwater or groundwater from building foundations, vaults, trenches, basins, or other areas that require draining.
9. **"Discharge"** means the placing, depositing, or emission of any wastes, directly or indirectly, into an injection well or into the waters of the State.
10. **"Earth Disturbance"** or **"Disturbance"** means construction activities including clearing, grading, tracking, grubbing, boring, and excavating, but does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility. Existing natural communities like wetlands, wildlife habitats, streams, water sources, etc. shall be considered in any earth disturbing activity.
11. **"Facility or activity"** means any point source or any other facility or activity, including land or appurtenances thereto, that is subject to regulation under this permit.
12. **"Final Stabilization"** means that:
    a. All soil disturbing activities at the site have been completed and either of the two following criteria are met:
        1. a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
        2. equivalent final stabilization measures (such as pavement, cement, gravel, riprap, gabions, or geotextiles) have been employed.
    b. When background native vegetation covers less than 100 percent of the ground (e.g., arid areas, beaches), the 70 percent coverage criterion is determined based

on the percentage of background native vegetation. Example: if the native vegetation covers 50 percent of the ground, 70 percent of 50 percent (0.70 X 0.50 = 0.35) would require 35 percent total cover for final stabilization. On a beach with no natural vegetation, no stabilization is required.

c. For individual lots for residential construction, final stabilization means that either:
    1. The parcel has reached final stabilization as specified above, or
    2. the parcel has established temporary stabilization through seeding and mulching in accordance with this permit, and established perimeter controls for the individual lot, prior to occupation of the home by the homeowner, and the operator has informed the homeowner of the need for, and benefits of, final stabilization.

d. For construction activity on land used for agricultural purposes (e.g., pipelines across crop or range land, staging areas for highway construction, etc.), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use when such land will be used again for agricultural purposes immediately following construction activity. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to 'waters of the state,' and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization criteria (1) and (2) above.

13. **"Hazardous Substance"** means those substances designated pursuant to 40 C.F.R. Part 116 and 40 C.F.R. Part 302.
14. **"Operator"** means any party associated with a construction project, including sub- contractors, that meets either of the following two criteria: (1) The party has operational control over construction plans and specifications including the ability to make modifications to those plans and specifications; or (2) The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with an EPSC Plan for the site or other permit conditions.
15. **"Permittee"** means a person who has received an authorization pursuant this general permit.
16. **"Person"** means any individual, partnership, company, corporation, association, joint venture, trust, municipality, the state of Vermont or any agency, department or subdivision of the state, any federal agency, or any other legal or commercial entity.
17. **"Point source"** or **"Source"** means any discernible, confined, and discrete conveyance, including any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged.
18. **"Pollutant"** means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. § 2011 et seq.)), heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into water. (40 C.F.R. § 122.2)
19. **"Pollution"** means the man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water. (33 U.S.C. § 1362).
20. **"Receiving Water"** or **"Waters of the State"** or **"Waters"** means all rivers, streams, creeks, brooks, reservoirs, ponds, lakes, springs, and all bodies of surface waters, artificial or natural, which are contained within, flow through, or border upon the state of Vermont or any portion of it.
21. **"Secretary"** means the Secretary of the Agency of Natural Resources or the Secretary's duly authorized representative.
22. **"Stormwater Program"** means the Vermont Department of Environmental Conservation, Watershed Management Division's Stormwater Management Program.

23. **"Stormwater"** or **"Stormwater Runoff"** means precipitation and snowmelt that does not infiltrate into the soil, including material dissolved or suspended in it, but does not include discharges from undisturbed natural terrain or wastes from combined sewer overflows.
24. **"Temporary Stabilization"** means protecting soils from erosion by rainfall, runoff, or wind, with a surface cover, including, but not limited to, establishment of ground vegetation, application of mulch, rolled erosion control products, gravelling, or paving.
25. **"Total Maximum Daily Load"** or **"TMDL"** means the calculations and plan for meeting water quality standards approved by the U.S. Environmental Protection Agency (EPA) and prepared pursuant to 33 U.S.C. § 1313(d) and federal regulations adopted under that law.
26. **"Vegetated Buffer"** means any undisturbed area between a construction site and a receiving water that consists of a naturally vegetated ground surface (e.g., trees, shrubs, duff layer, grasses, and other ground plants). This does not include any area of concentrated flow (e.g., ditches, swales). The buffer is measured as follows:
    a. Lake - distance from mean water level;
    b. Stream or river - distance from top of bank; and
    c. Wetland - distance from edge of wetland.
27. **"Wetlands"** means those areas of the state that are inundated by surface or ground water with a frequency sufficient to support significant vegetation or aquatic life that depend on saturated or seasonally saturated soil conditions for growth and reproduction. Such areas include but are not limited to marshes, swamps, sloughs, potholes, fens, river and lake overflows, mud flats, bogs, and ponds, but excluding such areas as grow food or crops in connection with farming activities. See 10 V.S.A. § 902(5) and the Vermont Wetland Rules.

Notice of Authorization
On the following page

Notice of Authorization
Under an Individual Discharge Permit (INDC)
For Stormwater Runoff from Construction Activities

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
STORMWATER PROGRAM

Permittee directions for posting: This notice shall be placed near the construction entrance at a location visible to the public. For linear projects, this notice shall be posted at a publicly accessible location near the active part of the construction project.

Permit Number:	9961-INDC
Date of Authorization:	January 6, 2026
Date of Expiration:	January 5, 2031
Permittee(s):	Vermont Agency of Transportation
Project Name:	Fairlee IM 091-2(91)

The project listed above has received authorization to discharge stormwater from the following construction activities:

Replacement of Bridge Nos. 55-2 and 55-3 with a pre-cast concrete structure (culvert) and construction of temporary crossovers, related approach roadway and channel work. Total project length approx. 550 feet.	
Total Project Earth Disturbance:	9.94 acre(s)
Concurrent Earth Disturbance:	5 acre(s)

This authorization includes the following requirements:

- Implementation of the authorized site-specific Erosion Prevention and Sediment Control (EPSC) Plan and all supporting information pursuant with the *Vermont Standards and Specifications for Erosion Prevention and Sediment Control* (*The Standards*).
- All areas of disturbance must have temporary or final stabilization within **14 days** of the initial disturbance. After this time, disturbed areas must be temporarily or permanently stabilized in advance of any runoff producing event. A runoff producing event is an event that produces runoff from the construction site. The following exception to the above stabilization requirements apply:
  - Temporary stabilization is not required if work is occurring in a self-contained excavation (i.e., no outlet) with a depth of two (2) feet or greater (e.g., house foundation excavation, utility trenches). Areas of a construction site that drain to sediment basins are not eligible for this exemption and the exemption applies only to the excavated area itself.
- The permittee shall designate a person as the On-Site Plan Coordinator (OSPC) who shall be directly responsible for on-site implementation of the EPSC Plan. This person shall be on-site daily during active construction and must be knowledgeable in the principles and practice of erosion prevention and sediment control. The OSPC shall be responsible for inspections and record keeping pursuant with the INDC and will have the authority to stop or modify construction activities as necessary to comply with the EPSC Plan and terms and conditions of this permit.
- The permittee shall designate an EPSC Specialist who is responsible for environmental inspections, ensuring water resource protection, EPSC Plan implementation, and record keeping and reporting to the Secretary per the schedule established in this permit.

- General site inspections shall be conducted for all areas that have been disturbed and are not yet finally stabilized at least once every seven (7) calendar days, immediately before any stormwater runoff producing event, and daily during the Winter Construction Period (October 15 through April 15). Upon inspection, any erosion prevention and sediment control measure that is not installed properly, in need of maintenance, or not effectively preventing sediment laden discharges shall be corrected before the next runoff producing event. In addition:
  - If dewatering activities are occurring, the OSPC shall, daily during dewatering activities, inspect the dewatering device to ensure proper sediment control, and shall complete daily sampling requirements using a turbidity meter at all points where dewatering water is discharged.
  - If visibly discolored stormwater runs off the construction site or discharges to waters of the State, the OSPC shall take immediate corrective action to inspect and maintain existing best management practices (BMPs), and to install supplemental BMPs necessary to minimize and prevent the discharge.
    - After completion of the corrective action, if there continues to be a discharge of discolored stormwater from the construction site to waters of the State, the OSPC shall notify DEC by submitting a Discharge Report in accordance with *subpart 2.8* of the individual permit within 24 hours of discovering the discharge.
- Following receipt of authorization under this INDC, additional Owner(s) and Operator(s) not identified on the application shall be added as a co-permittee by filing a Notice of Addition of Co-Permittee with the Secretary. The co-permittee shall be subject to all terms and conditions of the permittee's INDC authorization.
- The permittee shall comply with all inspection, maintenance, corrective action, record keeping, and reporting requirements, and all other terms, conditions, and eligibility provisions, including those conditions related to project changes, as set forth in this INDC authorization.

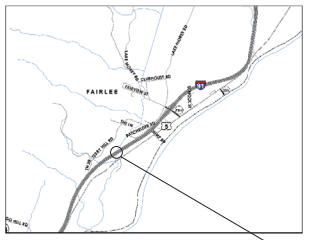
To request information on this authorization, or to report compliance concerns, please contact:

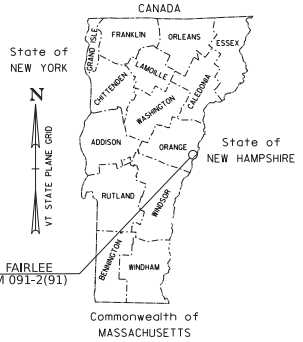
Vermont Department of Environmental Conservation
Watershed Management Division
Stormwater Program
https://dec.vermont.gov/watershed/stormwater

REVIEWER NOTES:

1. CONSTRUCTION WILL TAKE PLACE OVER THREE CONSTRUCTION SEASONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION



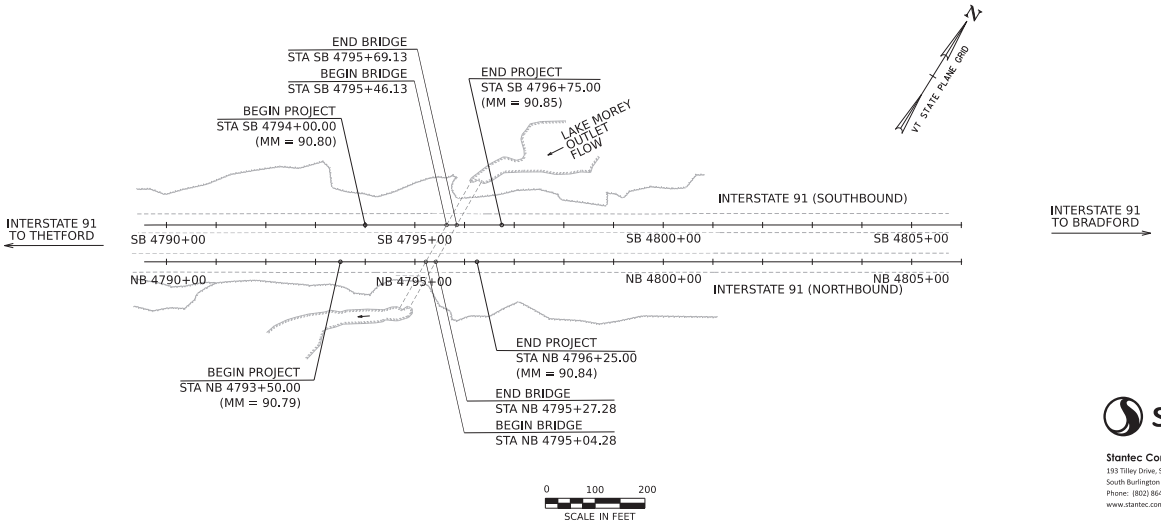


PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF FAIRLEE
COUNTY OF ORANGE
ROUTE NO: I-91 BRIDGES 55-2 & 55-3
(I-91 PRINCIPLE ARTERIAL - INTERSTATE)

PROJECT LOCATION : BRIDGES 55-2 AND 55-3 ARE LOCATED APPROXIMATELY 0.6 MILES SOUTH OF EXIT 15 ALONG INTERSTATE 91 (I-91).

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGES 55-2 AND 55-3 WITH A PRECAST CONCRETE STRUCTURE AND CONSTRUCTION OF TEMPORARY CROSSOVERS, ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

BRIDGE 55-2 SOUTHBOUND		BRIDGE 55-2 NORTHBOUND		TOTAL	
LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	46 FEET
LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	504 FEET
LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	550 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 1

SURVEYED BY : R. GILMAN
SURVEYED DATE : 06/13/2022

DATUM
VERTICAL NAVD88
HORIZONTAL NAD 83 (2011)

PERMITTING PLANS
3-DEC-2025

Stantec
Stantec Consulting Services Inc.
193 Tilley Drive, Suite 1
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
www.stantec.com

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____

PROJECT MANAGER : ADAM GOUDREAU, P.E.

PROJECT NAME : FAIRLEE
PROJECT NUMBER : IM 091-2(91)

SHEET 1 OF 57 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (CULVERT)

Version
LRFD

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	CONVENTIONAL SYMBOLOGY LEGEND SHEET
4 - 6	TYPICAL SECTION SHEETS 1-3
7 - 10	LAYOUT PLAN SHEETS
11 - 16	EPSC - PHASING SHEETS
17 - 18	EPSC - NARRATIVE SHEETS
19 - 30	EPSC - EXISTING CONDITIONS PLAN SHEETS 1-12
31 - 42	EPSC - CONSTRUCTION PLAN SHEETS 1-12
43 - 54	EPSC - FINAL CONDITIONS PLAN SHEETS 1-12
55 - 57	EPSC - DETAIL SHEETS

STANDARDS LIST

E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	06-25-2024
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-13	INLET PROTECTION DEVICE, TYPE I	04-07-2020
E-14	INLET PROTECTION DEVICE, TYPE III	05-09-2024
E-15	SILT FENCE	04-07-2020

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: 9/8/2025

DRAINAGE AREA : 8.4 square miles
CHARACTER OF TERRAIN : Mixed forested and open land with Lake Morey just upstream
STREAM CHARACTERISTICS : Meandering low gradient valley bottom stream
NATURE OF STREAMBED : Silt, sand and gravel

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% =	14 cfs	2% =	261 cfs
10% =	95 cfs	1% =	357 cfs
4% =	182 cfs	0.2% =	693 cfs

NATURAL STREAM VELOCITY : N/A
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? Yes - D/S
IF YES, DESCRIBE: Tailwater conditions due to the mild gradient and US5 Bridge 90; 7-ft by 7-ft RCB constriction.

WATERSHED STORAGE: 10.8% HEADWATERS:
UNIFORM:
IMMEDIATELY ABOVE SITE: Lake Morey

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: (2) 7-ft CGMPP
YEAR BUILT: 1971
CLEAR SPAN(NORMAL TO STREAM): 2 @ 7-ft diameter
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY OF FULL OPENING: Total = 77 sqft
DISPOSITION OF STRUCTURE: Replacement
TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:

50% AEP =	404.0 ft.	VELOCITY =	0.1 fps
10% AEP =	405.9 ft.	"	0.6 fps
4% AEP =	406.2 ft.	"	1.1 fps
2% AEP =	407.9 ft.	"	1.3 fps
1% AEP =	410.2 ft.	"	1.5 fps

LONG TERM STREAMBED CHANGES: No

IS THE EXISTING BRIDGE ON THE VTRANS SCOUR CRITICAL LIST? N/A

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None
BRIDGE LOW CHORD ELEVATION: N/A

UPSTREAM STRUCTURE

TOWN:	Fairlee	DISTANCE:	1000 ft
HIGHWAY # :	TH-14	STRUCTURE #:	Culv ID 3
CLEAR SPAN:	6-ft	CLEAR HEIGHT:	6-ft
YEAR BUILT:	unknown	FULL WATERWAY:	28.3 sqft
STRUCTURE TYPE:	6-ft corrugated metal pipe		

DOWNSTREAM STRUCTURE

TOWN:	Fairlee	DISTANCE:	450 ft
HIGHWAY # :	US5	STRUCTURE #:	Bridge 90
CLEAR SPAN:	7-ft	CLEAR HEIGHT:	7-ft
YEAR BUILT:	1939	FULL WATERWAY:	49 sqft
STRUCTURE TYPE:	Reinforced Concrete Box		

ADDITIONAL INFORMATION

PROPOSED STRUCTURE

STRUCTURE TYPE: Reinforced Concrete Box

CLEAR SPAN(NORMAL TO STREAM): 18.0 ft
VERTICAL CLEARANCE ABOVE STREAMBED: 11.0 ft. (13.0 ft height embedded 2 ft)
WATERWAY OF FULL OPENING: 198 sq. ft.

WATER SURFACE ELEVATIONS AT:

50% AEP =	404.0 ft.	VELOCITY=	0.1 fps
10% AEP =	404.7 ft.	"	0.7 fps
4% AEP =	405.8 ft.	"	1.1 fps
2% AEP =	406.9 ft.	"	1.3 fps
1% AEP =	408.2 ft.	"	1.5 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 0.2%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None

BRIDGE LOW CHORD ELEVATION: 409.51 ft. **
FREEBOARD: 1.31 ft. ***

SCOUR: N/A the proposed is a reinforced concrete box culvert

REQUIRED CHANNEL PROTECTION: E-Stone Type II-streambed;Stone Fill Type II-banks

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A
CLEAR SPAN (NORMAL TO STREAM): -
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY AREA OF FULL OPENING: -

ADDITIONAL INFORMATION

*Design Flows were determined using the SCS Curve Number method in conjunction with a Flood Routing model developed in HEC-HMS
** Low Chord Reported is located at outlet due to the freeboard being less than the inlet
*** Tailwater Elevation of 408.0 ft was used to determine freeboard

CALCULATIONS BY: JAD
CHECKED BY:

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024PI_perm.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
PRELIMINARY INFORMATION SHEET

PLOT DATE: 3-DEC-2025
DRAWN BY: P. ARMATA
CHECKED BY: J. GRIGAS

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⊡	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌗	APL	BOUND APPARENT LOCATION
▫	BM	BENCHMARK
▫	BND	BOUND
⧈	CB	CATCH BASIN
✿	COMB	COMBINATION POLE
⧈	DITHR	DROP INLET THROATED DNC
✿	EL	ELECTRIC POWER POLE
⚑	FPOLE	FLAGPOLE
⊙	GASFIL	GAS FILLER
⊙	GP	GUIDE POST
⋈	GSO	GAS SHUT OFF
⚬	GUY	GUY POLE
⚬	GUYW	GUY WIRE
⋈	GV	GATE VALVE
❁	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
⧋	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
●	IP	IRON PIN
●	IPIPE	IRON PIPE
✿	LI	LIGHT - STREET OR YARD
✉	MB	MAILBOX
○	MH	MANHOLE (MH)
▫	MM	MILE MARKER
⚬	PM	PARKING METER
▫	PMK	PROJECT MARKER
⚬	POST	POST STONE/WOOD
⚧	RRSIG	RAILROAD SIGNAL
◆	RRSL	RAILROAD SWITCH LEVER
✳	S	TREE SOFTWOOD
⌔	SAT	SATELLITE DISH
❁	SHRUB	SHRUB
⚬	SIGN	SIGN
⅄	STUMP	STUMP
⌖	TEL	TELEPHONE POLE
⚬	TIE	TIE
⚬⚬	TSIGN	SIGN W/DOUBLE POST
⅄	VCTRL	CONTROL VERTICAL
⚬	WELL	WELL
⋈	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6F — 6F — 6F PROPERTY BOUNDARY
- 4F — 4F — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- Ⓗ HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

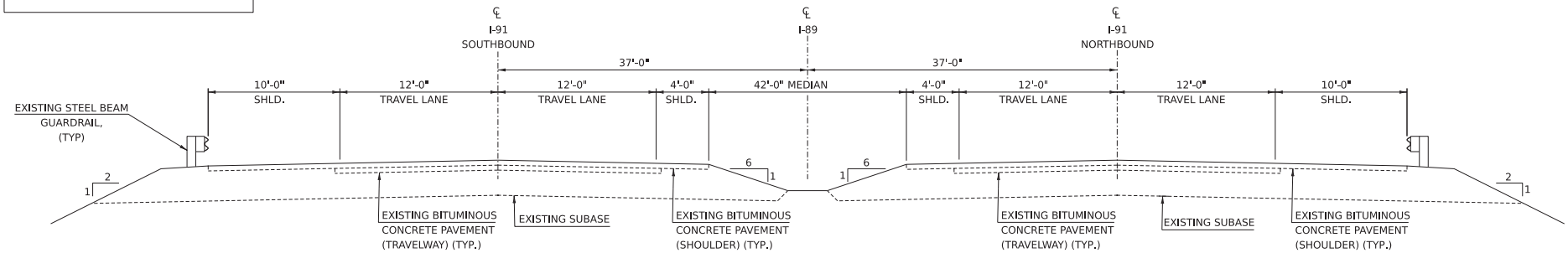
- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024symb.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: VTrans	DRAWN BY: VTrans
DESIGNED BY: VTrans	CHECKED BY: VTrans
CONVENTIONAL SYMBOLOGY LEGEND SHEET	SHEET 3 OF 57

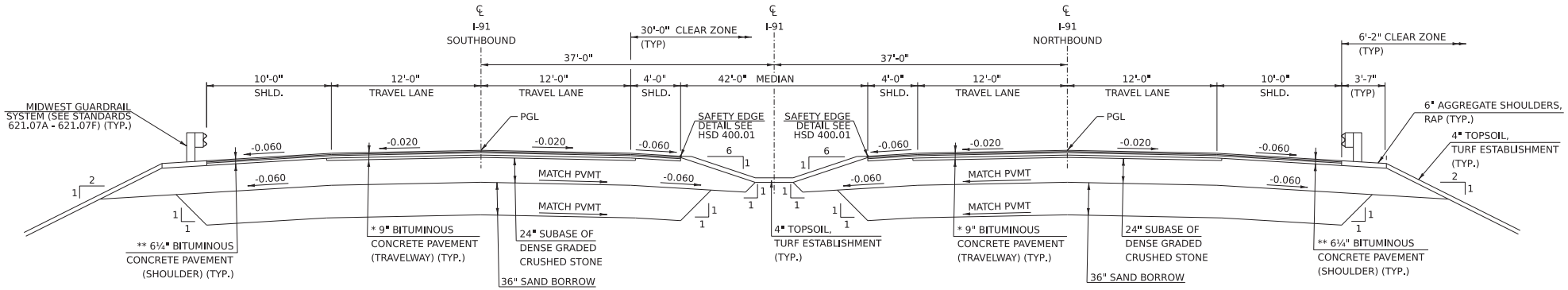
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¾"
SUBBASE	+/- 1"



EXISTING ROADWAY TYPICAL SECTION

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

NOT TO SCALE

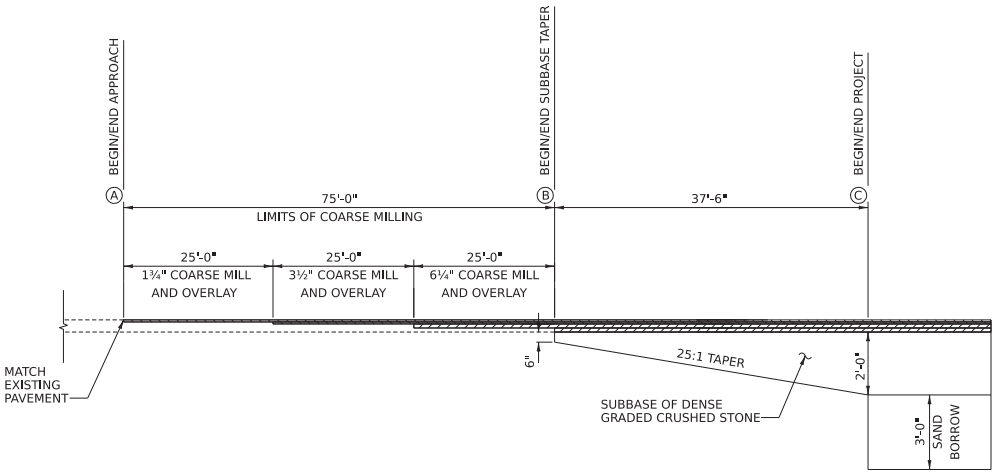
* TRAVELWAY PAVEMENT
1¾" TYPE IIIS OVER
1¾" TYPE IIIS OVER
2¾" TYPE IIS OVER
2¾" OF TYPE IIS

** SHOULDER PAVEMENT
1¾" TYPE IIIS OVER
1¾" TYPE IIIS OVER
2¾" TYPE IIS

NOTES:
1. RUMBLE STRIPS TO BE INSTALLED ON ALL SHOULDERS PER HIGHWAY SAFETY & DESIGN DETAIL HSD-213.01

Stantec

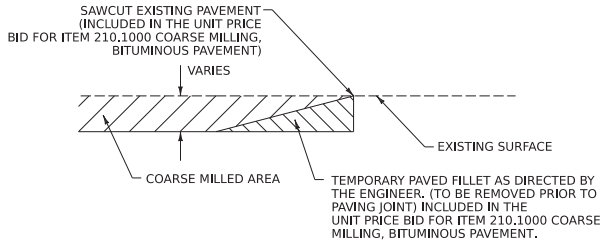
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 1	SHEET 4 OF 57



	Ⓐ	Ⓑ	Ⓒ
NORTHBOUND			
SOUTH APPROACH	4792+37.50	4793+12.50	4793+50.00
NORTH APPROACH	4797+37.50	4796+62.50	4796+25.00
SOUTHBOUND			
SOUTH APPROACH	4792+87.50	4793+62.50	4794+00.00
NORTH APPROACH	4797+87.50	4797+12.50	4796+75.00

TYPICAL APPROACH SECTION

NOT TO SCALE



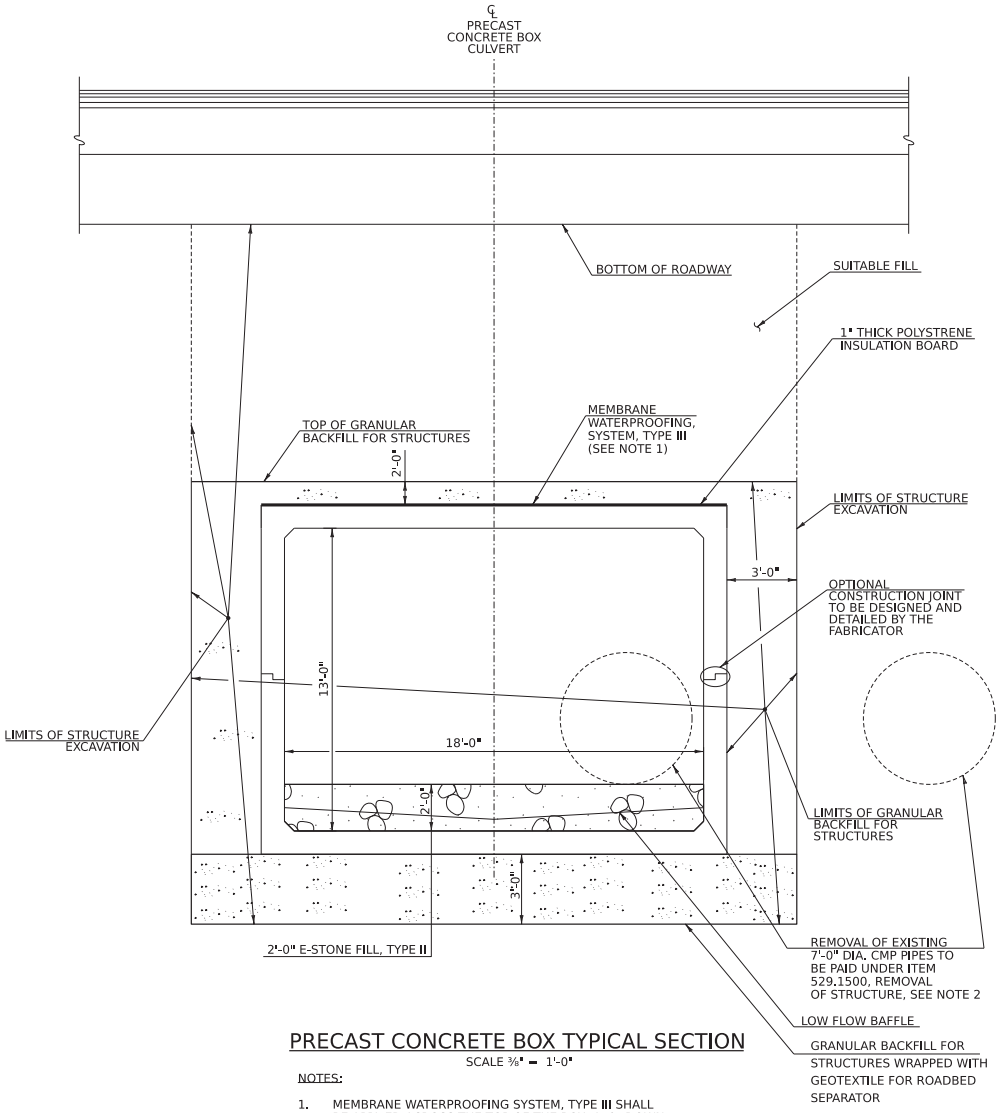
NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS SHOWN ABOVE AS DIRECTED BY THE ENGINEER.

DETAIL AT VERTICAL COARSE MILLING JOINTS

NOT TO SCALE

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 2	SHEET 5 OF 57

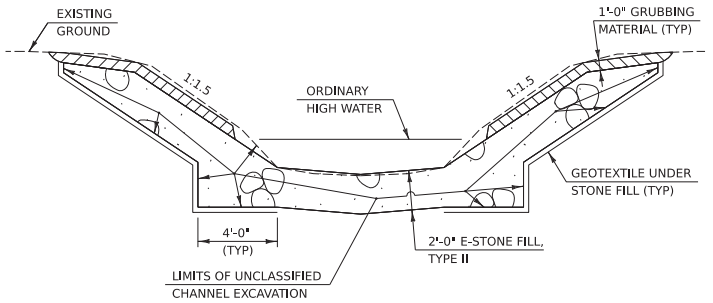


PRECAST CONCRETE BOX TYPICAL SECTION

SCALE ⅜" = 1'-0"

NOTES:

1. MEMBRANE WATERPROOFING SYSTEM, TYPE III SHALL BE APPLIED ACROSS THE TOP OF THE BOX, 1'-0" DOWN EACH SIDE, AND 2'-0" ACROSS EACH HORIZONTAL AND VERTICAL JOINT. SHINGLE ANY JOINTS IN THE MEMBRANE WITH AN OVERLAP OF ONE FOOT.
2. THE EXISTING PIPE OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION MAY BE FILLED WITH CONTROLLED DENSITY FLOWABLE FILL INSTEAD OF REMOVAL. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 529.1500, REMOVAL OF STRUCTURE.



TYPICAL CHANNEL SECTION

(NOT TO SCALE)

1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
2. THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.

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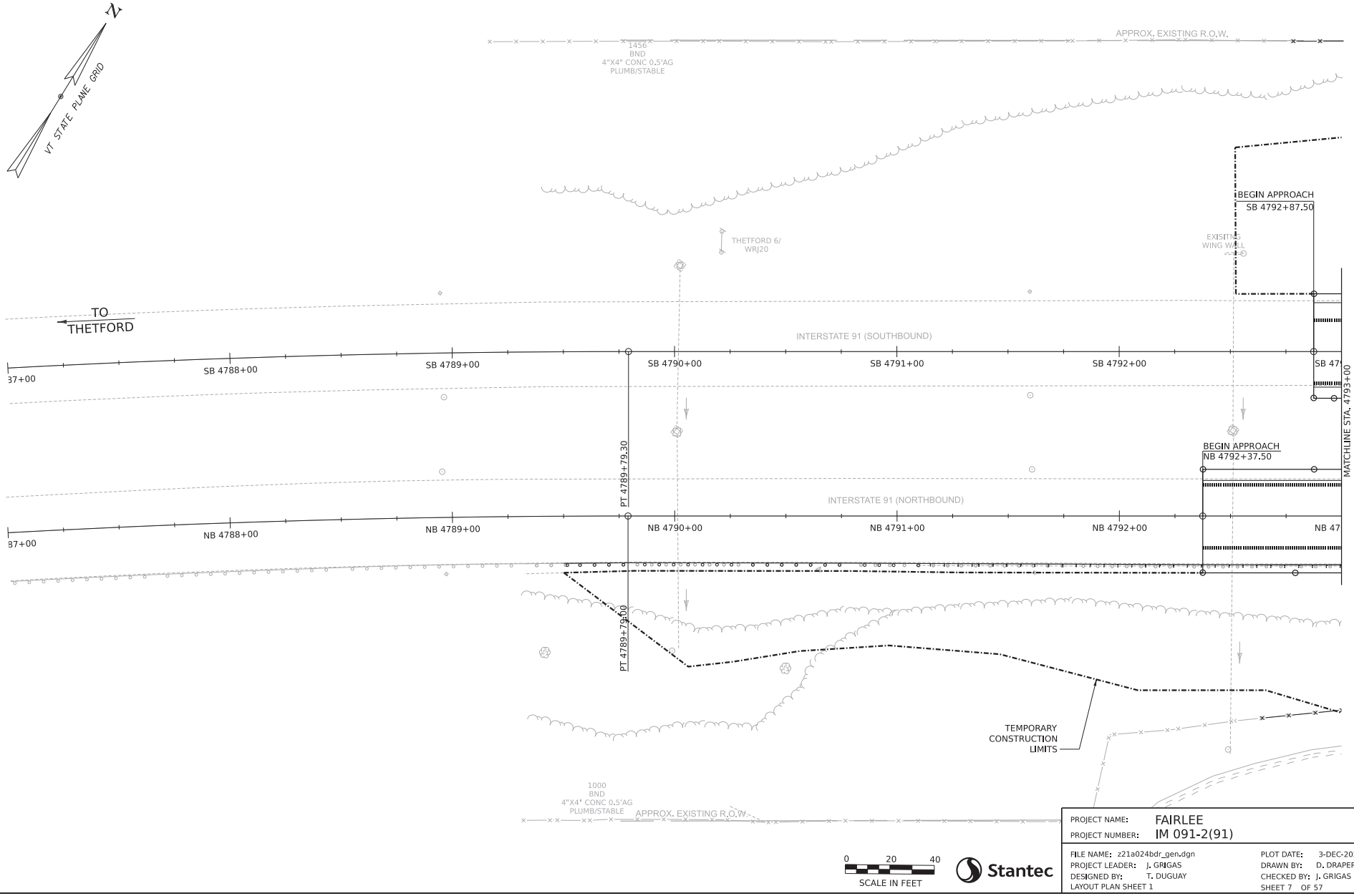
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 3	SHEET 6 OF 57

MILLED RUMBLE STRIPS, SHOULDER
STA. NB 4792+37.5 TO NB 4793+00.0, LT & RT
STA. SB 4792+87.5 TO SB 4793+00.0, LT & RT

REMOVAL OF EXISTING FENCE
STA. NB 4792+62.5 TO NB 4793+00.0, RT
STA. SB 4792+77.0 TO SB 4793+00.0, LT

WOVEN WIRE FENCE WITH STEEL POSTS
STA. NB 4792+62.5 TO NB 4793+00.0, RT
STA. SB 4792+77.0 TO SB 4793+00.0, LT

STEEL BRACE FOR WOVEN WIRE FENCE
STA. NB 4792+62.5, RT
STA. SB 4792+77.0, LT



0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME:	z21a024bdr_gen.dgn
PROJECT LEADER:	J. GRIGAS
DESIGNED BY:	T. DUGUAY
LAYOUT PLAN SHEET 1	
PLOT DATE:	3-DEC-2025
DRAWN BY:	D. DRAPER
CHECKED BY:	J. GRIGAS
SHEET 7	OF 57

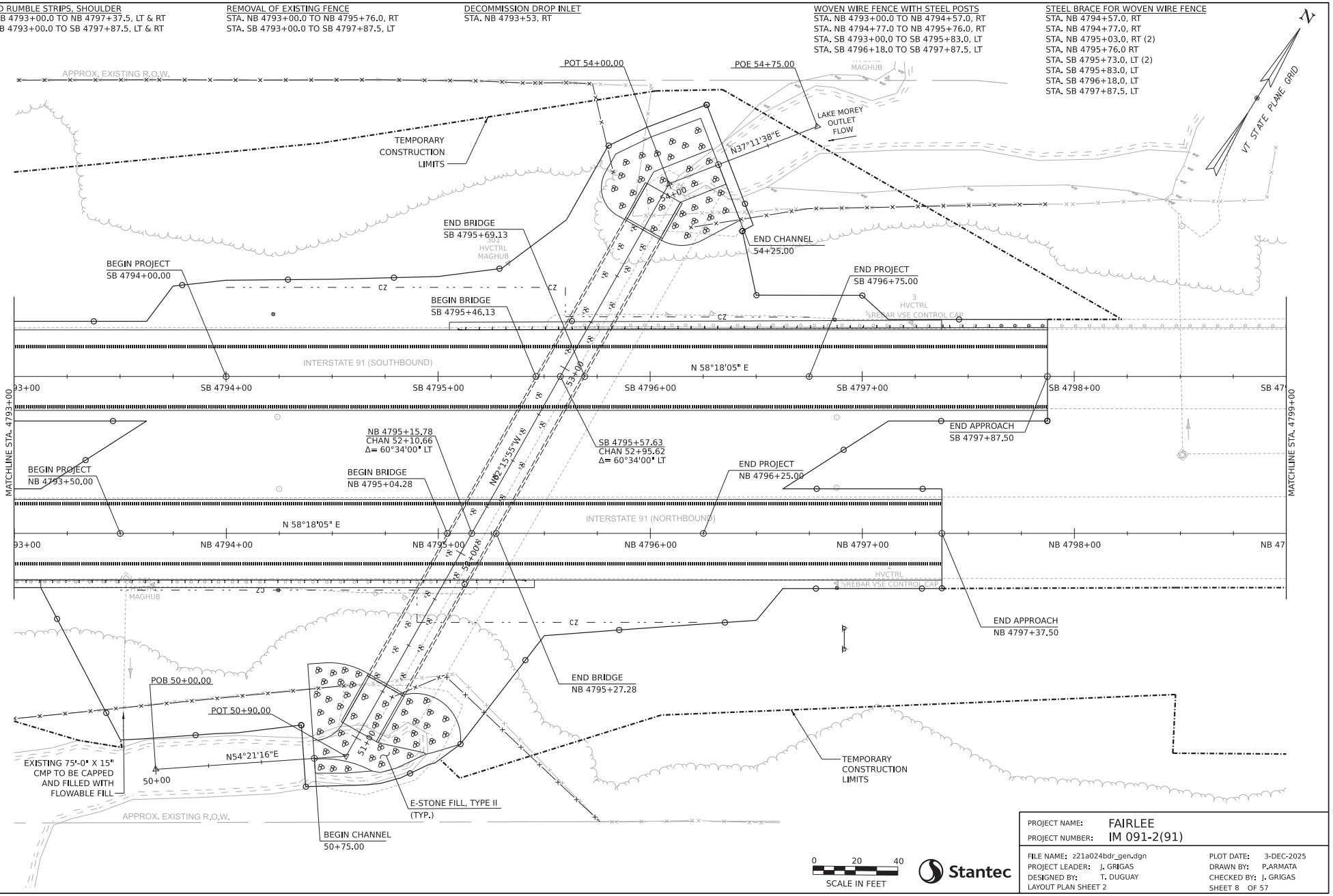
MILLED RUMBLE STRIPS, SHOULDER
STA. NB 4793+00.0 TO NB 4797+37.5, LT & RT
STA. SB 4793+00.0 TO SB 4797+87.5, LT & RT

REMOVAL OF EXISTING FENCE
STA. NB 4793+00.0 TO NB 4795+76.0, RT
STA. SB 4793+00.0 TO SB 4797+87.5, LT

DECOMMISSION DROP INLET
STA. NB 4793+53, RT

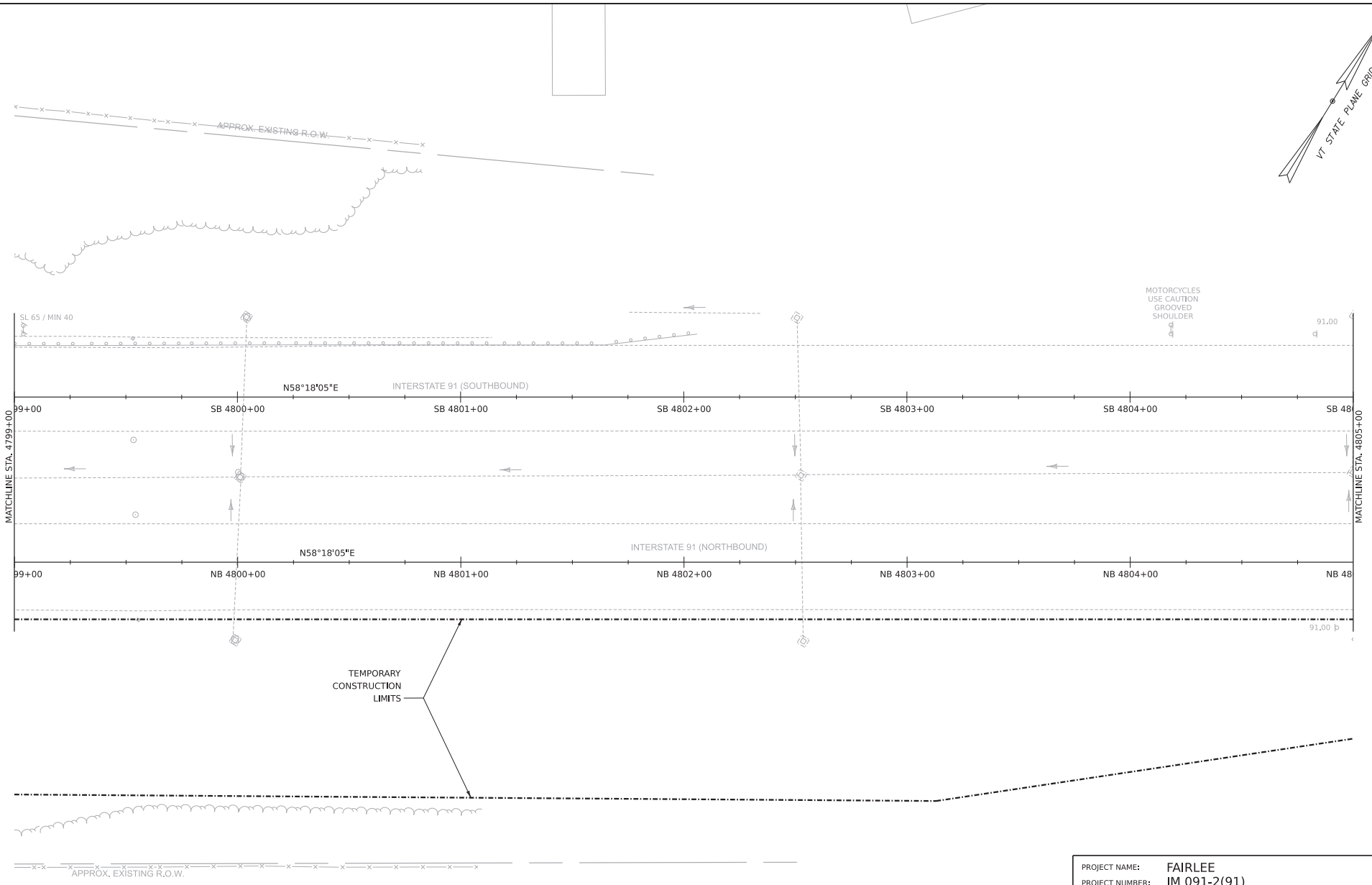
WOVEN WIRE FENCE WITH STEEL POSTS
STA. NB 4793+00.0 TO NB 4794+57.0, RT
STA. NB 4794+77.0 TO NB 4795+76.0, RT
STA. SB 4793+00.0 TO SB 4795+83.0, LT
STA. SB 4796+18.0 TO SB 4797+87.5, LT

STEEL BRACE FOR WOVEN WIRE FENCE
STA. NB 4794+57.0, RT
STA. NB 4794+77.0, RT
STA. NB 4795+03.0, RT (2)
STA. NB 4795+76.0 RT
STA. SB 4795+73.0, LT (2)
STA. SB 4795+83.0, LT
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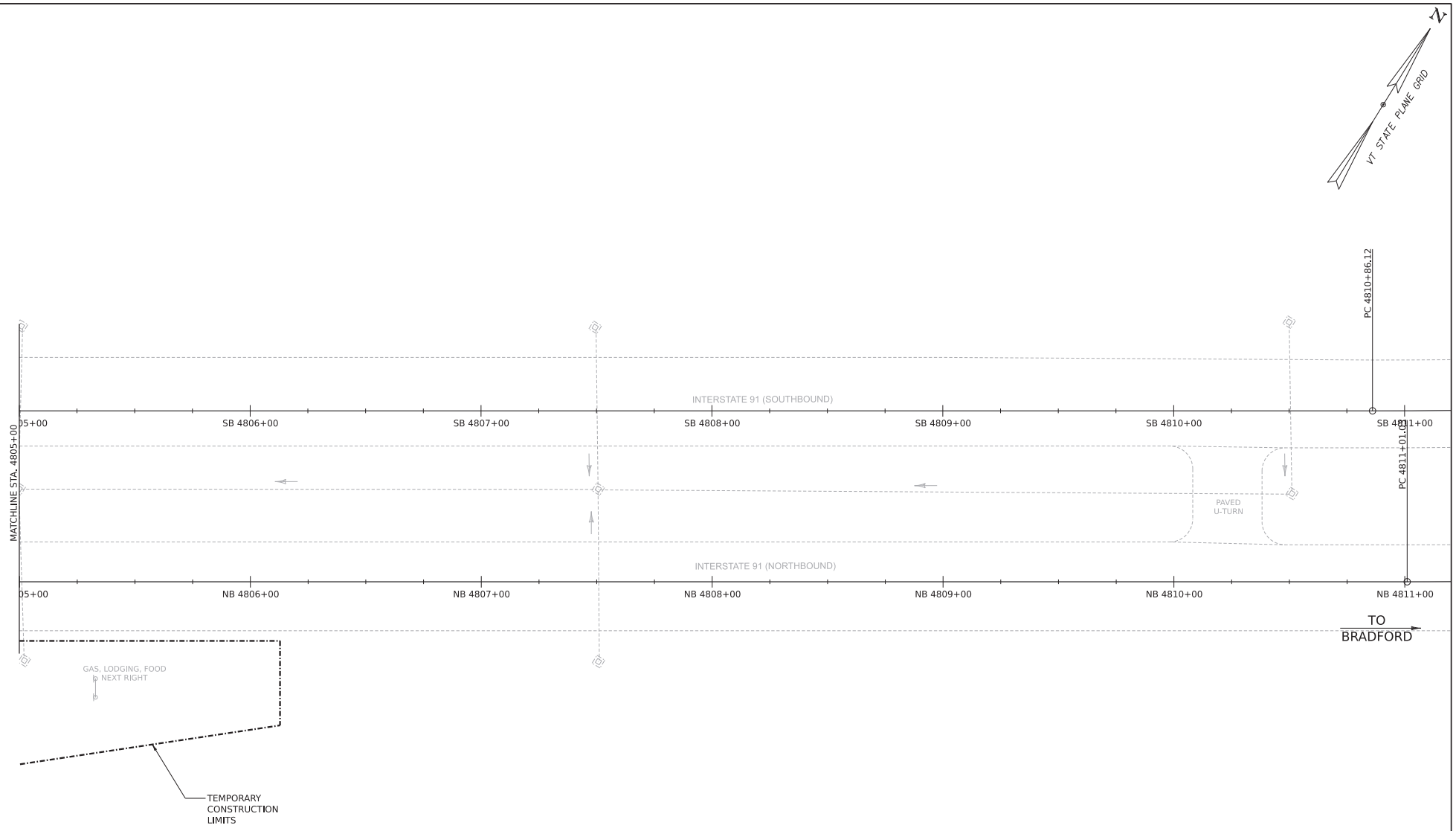
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_gen.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
LAYOUT PLAN SHEET 2	SHEET 8 OF 57



0 20 40
SCALE IN FEET

Stantec

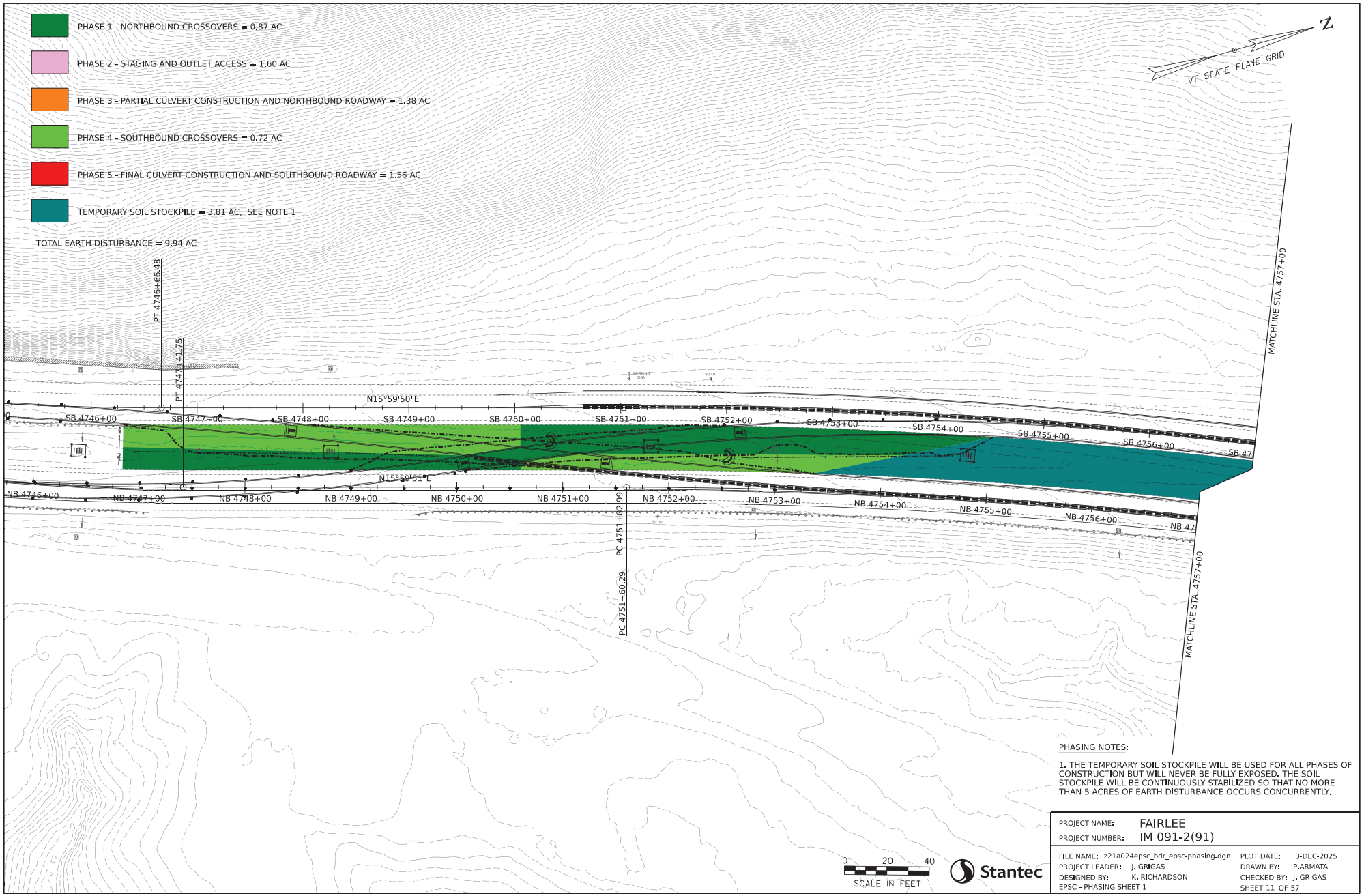
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DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
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0 20 40
SCALE IN FEET

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PROJECT NUMBER:	IM 091-2(91)
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PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
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LAYOUT PLAN SHEET 4	SHEET 10 OF 57

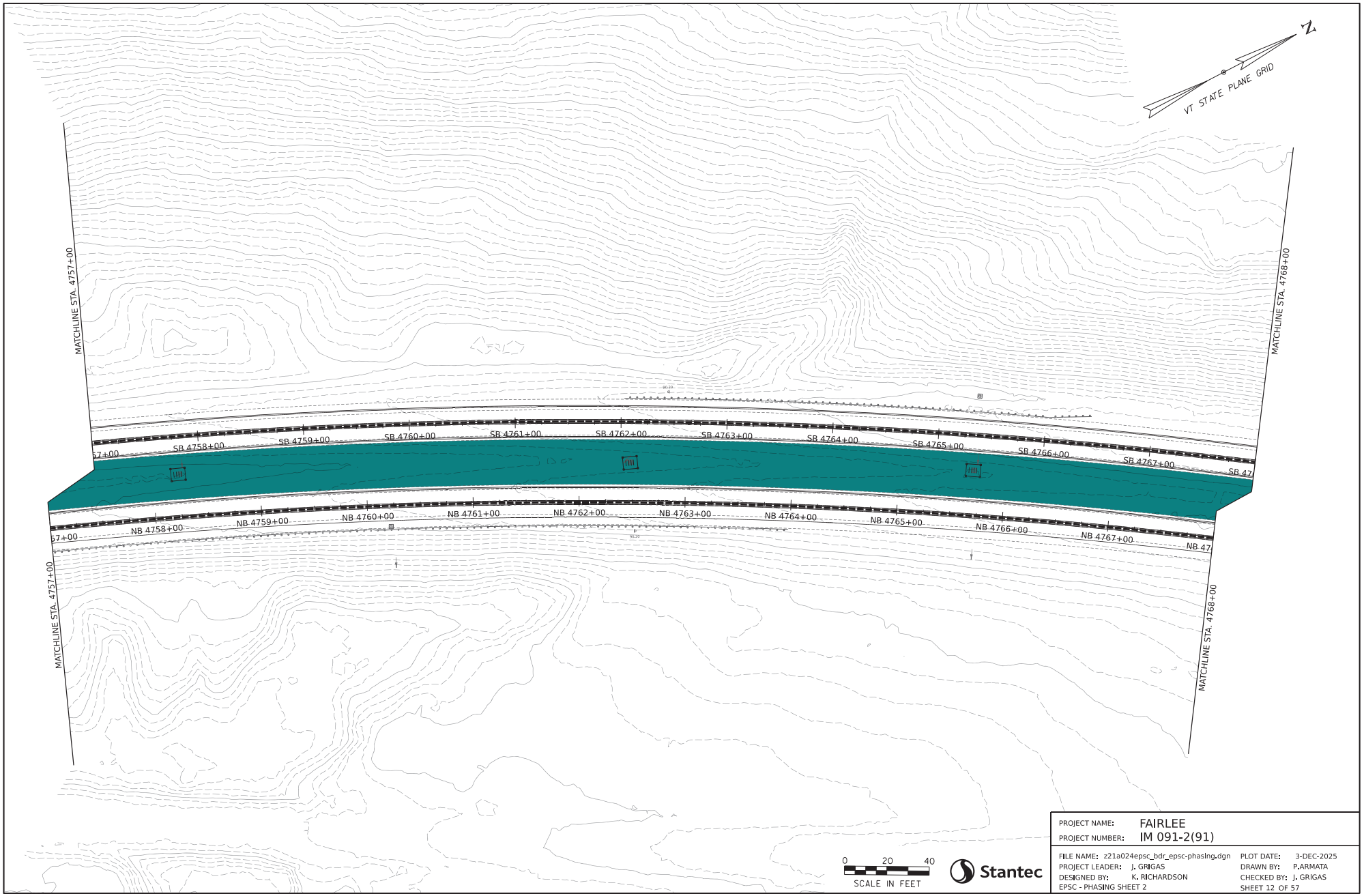


PHASING NOTES:

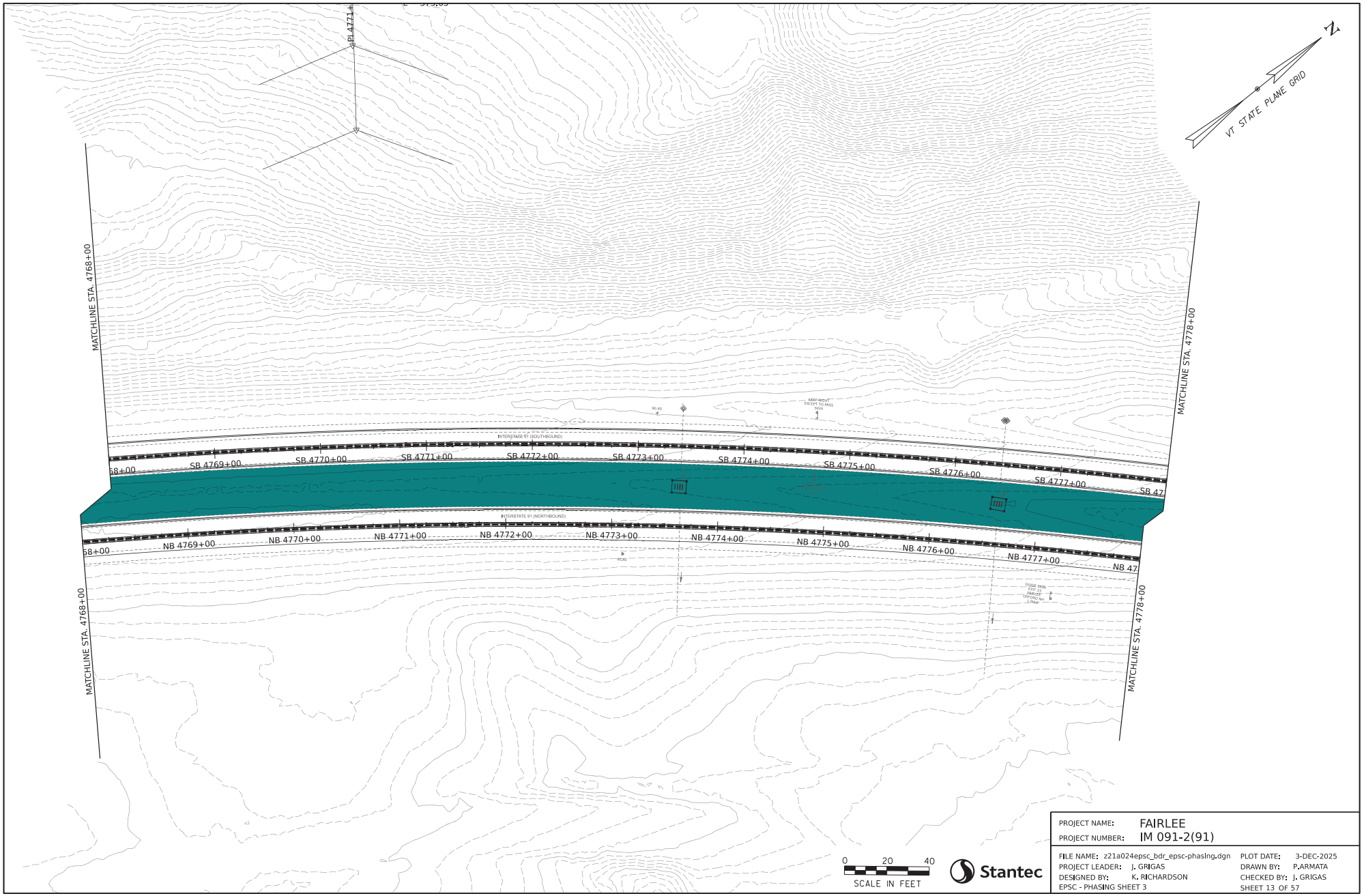
1. THE TEMPORARY SOIL STOCKPILE WILL BE USED FOR ALL PHASES OF CONSTRUCTION BUT WILL NEVER BE FULLY EXPOSED. THE SOIL STOCKPILE WILL BE CONTINUOUSLY STABILIZED SO THAT NO MORE THAN 5 ACRES OF EARTH DISTURBANCE OCCURS CONCURRENTLY.

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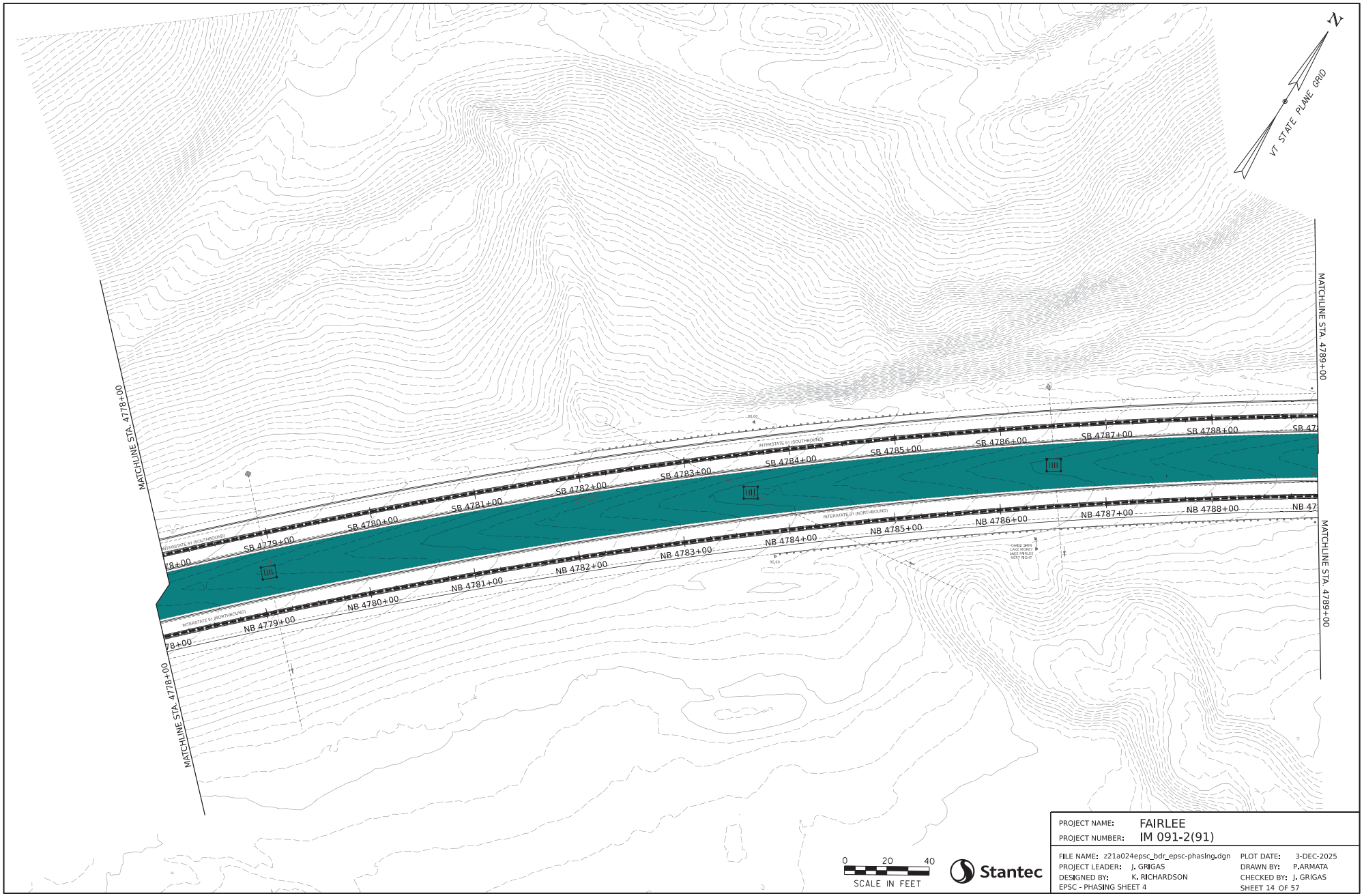
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_epsc-phasing.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
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EPSC - PHASING SHEET 2	SHEET 12 OF 57

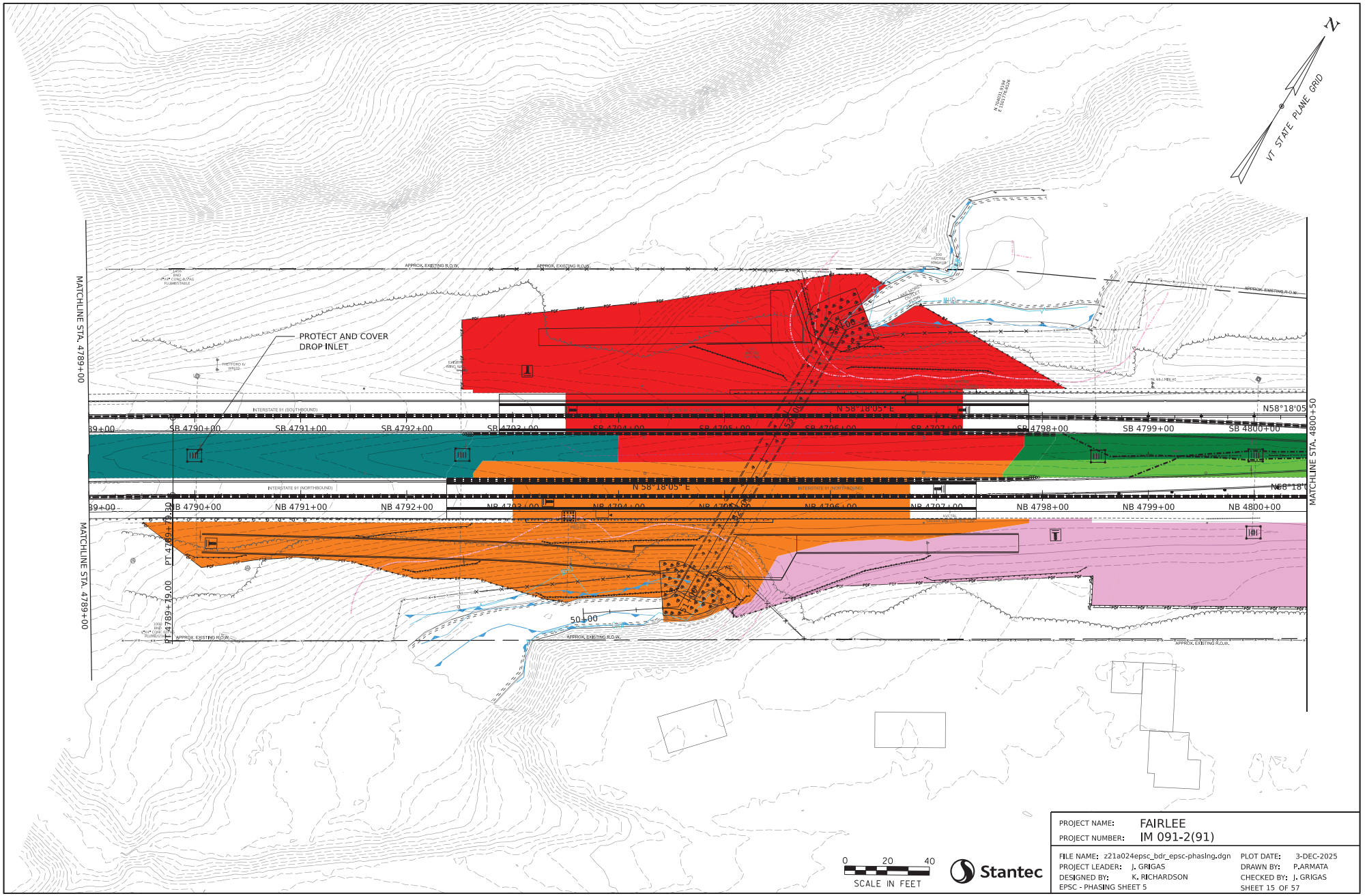


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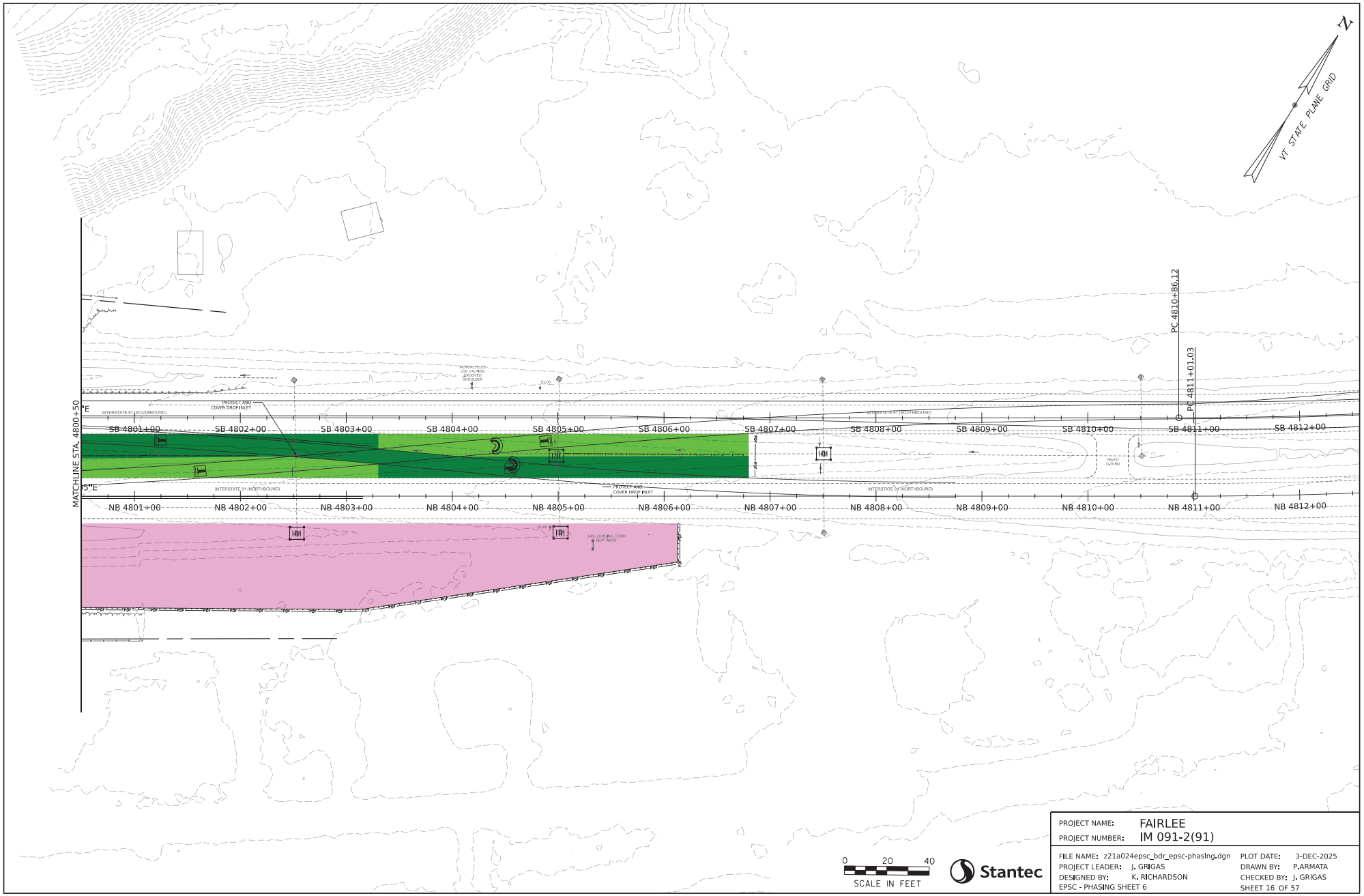


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DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
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EPSC PLAN NARRATIVE

1. PROJECT DESCRIPTION

THIS PROJECT INVOLVES REPLACEMENT OF BRIDGES 55-2 AND 55-3 WITH A PRECAST CONCRETE STRUCTURE AND CONSTRUCTION OF TEMPORARY CROSSOVERS, ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

IT IS ANTICIPATED THAT CONSTRUCTION WILL LAST 36 MONTHS.

2. AMOUNT OF DISTURBANCE AND RISK EVALUATION

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 9.94 ACRES.

THE MAXIMUM CONCURRENT EARTH DISTURBANCE USED TO SCORE THIS PROJECT IN THE APPENDIX A RISK ASSESSMENT IS 5.0 ACRES OR LESS.

THIS PROJECT REQUIRES AN INDIVIDUAL PERMIT FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES.

ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

3. MAJOR COMPONENTS AND SEQUENCING

THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO EROSION AT ANY GIVEN TIME.

THE MAJOR COMPONENTS OF THE PROJECT AND A PROPOSED GENERAL SEQUENCE IS AS FOLLOWS:

PHASE 1 (0.87 ACRES)
- ESTABLISH PERIMETER CONTROLS AND MARK PROJECT BOUNDARIES
- INSTALL SEDIMENT CONTROL MEASURES
- CONSTRUCT EMBANKMENT FOR NORTHBOUND CROSSOVERS
- PAVE NORTHBOUND CROSSOVERS
- SWITCH NORTHBOUND TRAFFIC ONTO NORTHBOUND CROSSOVERS AND SOUTHBOUND ROADWAY

PHASE 2 (1.60 ACRES)
- ESTABLISH PERIMETER CONTROLS AND MARK PROJECT BOUNDARIES, AS NECESSARY
- INSTALL SEDIMENT CONTROL MEASURES
- CONSTRUCT TEMPORARY STAGING AND ACCESS ROAD TO CULVERT OUTLET

PHASE 3 (1.38 - 5.0 ACRES)
- ESTABLISH PERIMETER CONTROLS AND MARK PROJECT BOUNDARIES, AS NECESSARY
- INSTALL SEDIMENT CONTROL MEASURES
- EXCAVATE NORTHBOUND
- STOCKPILE AND STABILIZE EXCAVATED MATERIALS IN INTERSTATE MEDIAN SUCH THAT NO MORE THAN 2 ACRES OF EARTH IS DISTURBED AT A TIME
- INSTALL OUTLET PORTION OF THE NEW CULVERT
- BACKFILL TO ORIGINAL GRADES
- FINAL PAVING AND STABILIZATION OF NORTHBOUND

PHASE 4 (0.72 ACRES)
- ESTABLISH PERIMETER CONTROLS AND MARK PROJECT BOUNDARIES, AS NECESSARY
- INSTALL SEDIMENT CONTROL MEASURES
- REMOVE NORTHBOUND CROSSOVERS
- REMOVE TEMPORARY STAGING AREA AND OUTLET ACCESS ROAD
- CONSTRUCT EMBANKMENT FOR SOUTHBOUND CROSSOVERS
- PAVE SOUTHBOUND CROSSOVERS
- SWITCH TRAFFIC ONTO SOUTHBOUND CROSSOVERS AND NORTHBOUND ROADWAY

PHASE 5 (1.56 - 5.0 ACRES)
- ESTABLISH PERMITER CONTROLS AND MARK PROJECT BOUNDARIES, AS NECESSARY
- INSTALL SEDIMENT CONTROL MEASURES
- EXCAVATE SOUTHBOUND
- STOCKPILE AND STABILIZE EXCAVATED MATERIALS IN INTERSTATE MEDIAN SUCH THAT NO MORE THAN 2 ACRES OF EARTH IS DISTURBED AT A TIME
- INSTALL INLET PORTION OF THE NEW CULVERT
- BACKFILL TO ORIGINAL GRADES
- FINAL PAVING AND STABILIZATION OF SOUTHBOUND
- REMOVE SOUTHBOUND CROSSOVERS
- FINAL PERMANENT STABILIZATON MEASURES

4. SITE DESCRIPTION

4.1 VEGETATED BUFFERS

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS, OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE IMPLEMENTED WHEREVER POSSIBLE.

THIS PROJECT DOES NOT RELY ON VEGETATED BUFFERS AS A MITIGATING RISK FACTOR.

4.2 STREAM CROSSINGS

THIS PROJECT INCLUDES 1 STREAM CROSSING, AS DESCRIBED IN SECTION 5.1 BELOW. WORK WITHIN THE WATER IS BEING CONSULTED THROUGH THE VANR DEC RIVER MANAGEMENT PROGRAM AND AUTHORIZED THROUGH THE US ARMY CORPS OF ENGINEERS

4.3 WETLANDS

THE PROJECT INVOLVES 1,600 SF OF WETLAND AND 17,920 SF OF WETLAND BUFFER. THIS WORK WITHIN THESE AREAS IS BEING AUTHORIZED THROUGH THE VANR WETLANDS OFFICE AND/ OR THE US ARMY CORPS OF ENGINEERS.

4.4 TOPOGRAPHY

THE TOPOGRAPHY OF THE PROJECT AREA IS GENERALLY INTERSTATE HIGHWAY. THE PROJECT AREA AROUND THE CULVERT CONSSTS OF STEEP SLOPES WITH WETLANDS LOCATED NEAR THE CULVERT'S INLET AND OUTLET. A FEW RESIDENCES AND I-91 EXIT 15 ARE ADJACENT TO THE PROJECT AREA.

4.5 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF GRASSES, AND WOOODED AREAS. THE IMPACT TO VEGETATION WILL BE LIMITED TO WHAT IS DIRECTLY AFFECTED BY THE PROJECT. UPON COMPLETION, THE DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES AS DESCRIBED IN THE TURF ESTABLISHMENT DETAIL AND LANDSCAPING PLAN, UNLESS NOTED OTHERWISE.

4.6 SOILS

SOIL EROSION DATA FROM THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE INDICATES THAT SOILS ON THE PROJECT SITE INCLUDE:

AGAWAM FINE SANDY LOAM, 3% TO 8% SLOPES, "K FACTOR" = 0.37
BELGRADE SILT LOAM, 0% TO 8% SLOPES, "K FACTOR" = 0.43
BELGRADE SILT LOAM, 8% TO 15% SLOPES, "K FACTOR" = 0.43
COLTRAIN VERY STONY FINE SANDY LOAM, 25% TO 50% SLOPES, "K FACTOR" = 0.24
COLTRAIN STONY FINE SANDY LOAM, 15% TO 25% SLOPES, "K FACTOR" = 0.24
RAYNHAM VARIANT SILT LOAM, 0% TO 3% SLOPES, "K FACTOR" = 0.37
TUNBRIDGE-WOODSTOCK COMPLEX, 25% TO 50% SLOPES, "K FACTOR" = 0.24
WALPOLE FINE SANDY LOAM, "K FACTOR" = 0.28
WINDSOR LOAMY SAND, 8% TO 25% SLOPES, "K FACTOR" = 0.15

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:
0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

4.7 OTHER SENSITIVE RESOURCES

RARE, THREATENED AND ENDANGERED (RTE) SPECIES HAVE BEEN IDENTIFIED WITHIN A ONE-MILE RADIUS OF THE PROJECT AREA:

- NORTHERN LONG-EARED BAT
- WHORLED WATER-MILFOIL (MYRIOPHYLLUM VERTICILLATUM)
- RIVERINE CLUBTAIL (STYLURUS AMNICOLA)
- COBRA CLUBTAIL (GOMPHURUS VASTUS)
- RAPIDS CLUBTAIL (PHANOGOMPHUS QUADRICOLOR)

5. DRAINAGE

5.1 RECEIVING WATERS

THE LAKE MOREY OUTFLOW IS THE ONLY WATER SOURCE ON THE PROJECT SITE. RESIDENCES AND BUSINESSES WATER SUPPLIES ARE FROM MUNICIPAL WATER. THE OUTFLOW IS CLASSIFIED AS MEANDERING LOW GRADIENT VALLEY BOTTOM STREAM. THE STREAM BED CONSISTS OF SILT, SAND, AND GRAVEL. THE TRIBUTARY AREA IS 8.4 SQUARE MILES.

5.2 DISCHARGE POINTS

THERE ARE THREE DISCHARGE POINTS NEAR THE PROJECT AREA. THESE ARE OUTFALLS FROM INTERSTATE STORMWATER COLLECTION STRUCTURES. THE DISCHARGE POINTS WILL NOT BE IMPACTED BY CONSTRUCTION AND THE INLETS WILL BE COVERED WITH FILTER FIBER DURING CONSTRUCTION. DROP INLETS WITHIN THE SLOPE LIMITS OF THE CROSSOVERS WILL BE COVERED AND PROTECTED DURING CONSTRUCTION. TEMPORARY CULVERTS WILL BE INSTALLED TO CONVEY DRAINAGE WHILE THE CROSSOVERS ARE CONSTRUCTED. SEE VTRANS STANDARDS E-13 AND E-14.

5.3 CONVEYANCE/ FLOW PATH FROM PROJECT TO WATERS

THE MAJORITY OF THE PROJECT IS NOT CURBED AND RUNOFF DRAINS OVERLAND ACROSS ADJACENT VEGETATED SIDE SLOPES BEFORE REACHING THE RECEIVING WATER. THERE ARE ALSO NUMEROUS DROP INLETS ON SITE THAT COLLECT ROADWAY RUNOFF AND DRAIN TO STONE LINED OUTFALLS BEFORE FLOWING TO THE LAKE MOREY OUTFLOW.

6. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

THE MEASURES INCLUDED IN THIS PLAN ARE PROVIDED AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. IT IS EXPECTED THAT THE CONTRACTORS MAY USE THIS PLAN, WITH ADJUSTMENTS AS NECESSARY, BASED ON THEIR SPECIFIC MEANS AND METHODS OF CONSTRUCTION.

REFER TO THE DETAILS INCLUDED IN THESE PLANS AND FLOW CHART FIGURES 3.1, 3.2, AND 3.3 IN THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR SPECIFIC GUIDANCE.

APPLYING THESE MEASURES THROUGHOUT CONSTRUCTION IS CRITICAL TO THEIR SUCCESS IN MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS.

6.1 IDENTIFY LIMITS OF DISTURBANCE

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

6.2 LIMIT CONCURRENT DISTURBANCE

LIMITING THE AMOUNT OF SOIL EXPOSED AT ONE TIME REDUCES THE POTENTIAL EROSION ON SITE. CONCURRENT EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY DISTIRBING EARTH AS NECESSARY AND EMPLOYING STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE.

6.3 STABILIZE DISTURBED AREAS

6.3.1 ACCESS POINTS/ ENTRANCE/ EXITS

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES ARE ANTICIPATED ON THIS PROJECT AND SHALL BE LOCATED AS SHOWN ON THIS EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES. SEE VTRANS STANDARD E-12.

6.3.2 TEMPORARY MEASURES FOR EXPOSED AREAS DURING CONSTRUCTION

ALL AREAS OF EARTH DISTURBANCE MUST HAVE STABILIZATION IN PLACE WITHIN 14 DAYS OF INITIAL DISTURBANCE AND DISTURBED AREAS MUST BE STABILIZED IN ADVANCE OF ANY RUNOFF PRODUCING EVENT.

SURFACE ROUGHENING OF EXPOSED SLOPES, SEEDING OF TEMPORARY SLOPES AND STOCKPILES, AND STANDARD MULCHING PRACTICES DESCRIBED IN SPECIFICATION SECTION 653.07 SHALL BE UTILIZED TO TEMPORARILY STABILIZE DISTURBED AREAS.

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6.3.3 PERMANENT STABILIZATION AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

TURF ESTABLISHMENT MEASURES PER SECTION 651 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, ROLLED EROSION CONTROL PRODUCT, TYPE I SHALL BE USED INSTEAD OF MULCH. SEE VTRANS STANDARD E-10.

6.4 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. RUNOFF FROM OUTSIDE OF THE PROJECT AREA IS NOT ANTICIPATED.

6.5 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED ON THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES, PRIOR TO ANY UP-SLOPE WORK.

SILT FENCE WILL BE INSTALLED ALONG THE CONTOURS AND AS PROPOSED ON THE EPSC PLAN. SILT FENCE, TYPE II SHALL BE USED WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

6.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

IT IS ANTICIPATED THAT TEMPORARY STONE CHECK DAMS WILL BE REQUIRED FOR THIS PROJECT. SEE VTRANS STANDARD E-11.

7. CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

PERMANENT STORMWATER TREATMENT DEVICES ARE NOT ANTICIPATED TO BE NEEDED AS DESIGNED.

8. DEWATERING

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS FROM THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS. DEWATERED STORMWATER OR GROUNDWATER MUST BE FILTERED AND ROUTED IN A MANNER THAT DOES NOT RESULT IN VISIBLY TURBID DISCHARGES TO WATERS.

GENERAL SITE INSPECTIONS SHALL BE CONDUCTED IN ACORDANCE WITH SUBPART 2.2.1 OF THE GENERAL PERMIT FOR ALL AREAS THAT HAVE BEEN DISTURBED AND ARE NOT YET FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, IMMEDIATELY BEFORE ANY STORMWATER RUNOFF PRODUCING EVENT, AND DAILY DURING THE WINTER CONSTRUCTION PERIOD (OCTOBER 15 THROUGH APRIL 15). UPON INSPECTION, ANY EROSION PREVENTION AND SEDIMENT CONTROL MEASURE THAT IS NOT INSTALLED PROPERLY, IN NEED OF MAINTENANCE, OR NOT EFFECTIVELY PREVENTING SEDIMENT LADEN DISCHARGES SHALL BE CORRECTED BEFORE THE NEXT RUNOFF PRODUCING EVENT. IN ADDITION:

- IN ACCORDANCE WITH SUBPART 2.2.3 OR THE THE GENERAL PERMIT, IF DEWATERING ACTIVITIES ARE OCCURRING, THE PERMITTEE SHALL DAILY DURING DEWATERING ACTIVITIES INSPECT THE DEWATERING DEVICE TO ENSURE PROPER SEDIMENT CONTROL AND THE PERMITTEE SHALL COMPLETE DAILY SAMPLING REQUIREMENTS, USING A TURBIDITY METER, AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED
- IF VISIBLY DISCOLORED STORMWATER RUNS OFF THE CONSTRUCTION SITE OR DISCHARGES TO WATERS OF THE STATE, THE PERMITTEE SHALL TAKE IMMEDIATE CORRECTIVE ACTION TO INSPECT AND MAINTAIN EXISTING BEST MANAGEMENT PRACTICES (BMPS), AND TO INSTALL SUPPLEMENTAL BMPS NECESSARY TO MINIMIZE AND PREVENT THE DISCHARGE.
    - AFTER COMPLETION OF THE CORRECTIVE ACTION, THERE CONTINUES TO BE A DISCHARGE OF DISCOLORED STORMWATER FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THE PERMITTEE SHALL NOTIFY DEC BY SUBMITTING A DISCHARGE REPORT IN ACCORDANCE WITH SUBPART 2.2.2 OF THE CGP WITHIN 24 HOURS OF DISCOVERING THE DISCHARGE

THE PERMITTEE IS REQUIRED TO CONTINUE PERFORMING ALL GENERAL AND DISCHARGE INSPECTIONS UNTIL COVERAGE UNDER THIS PERMIT IS TERMINATED IN ACCORDANCE WITH SUBPART 5.5 OR EXPIRED.

DEWATERING OF SURFACE WATER WITHIN THE LIMITS OF TEMPORARY RELOCATION OF STREAM IS ANTICIPATED. THE FILTER BAG DETAIL AND PAY ITEM HAVE BEEN INCLUDED AS A POTENTIAL TREATMENT MEASURE FOR THIS PURPOSE, HOWEVER, THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR. ALL COSTS FOR TREATMENT OF DISCHARGE SHALL BE PAID FOR UNDER CONTRACT ITEM 653.4500.

9. OFF-SITE AREAS

OFF-SITE WASTE AND BORROW AREAS HAVE NOT BEEN IDENTIFIED FOR THIS PROJECT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PERMIT, AS NECESSARY, ANY OFF-SITE AREAS THAT ARE NEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 105.25 - 105.28. AS THIS PROJECT HAS AN INDIVIDUAL PERMIT, ALL OFF-SITE AREAS MAY BE SUBJECT TO REVIEW BY THE VANR DEC STORMWATER PROGRAM.

ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NECESSARY FOR WASTE, BORROW, AND STAGING AREAS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR PER 105.28 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILERS OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 12" OF GRAVEL. FOLLOWING COMPLETION OF CONSTRUCTON, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED, AND MULCHED.

ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

10. WINTER CONSTRUCTION

IF CONSTRUCTION ACTIVITIES ARE TAKING PLACE BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
    - ADEQUATE STORAGE AND CONTROL OF MELT-WATER
    - STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORMWATER TREATMENT STRUCTURES
- AREAS OF DISTURBANCE WITHIN 100 FT OF A WATERBODY MUST HAVE REINFORCED (WOVEN WIRE) SILT FENCE INSTALLED ACROSS THE SLOPE, DOWNGRADIENT OF THE EARTH DISTURBANCE. ALTERNATIVELY, REGULAR, NON-WOVEN WIRE SILT FENCE MAY BE USED IF COMBINED WITH EROSION CONTROL BERM, EROSION LOG, OR STRAW WATTLE.
- DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED PRIOR TO FROZEN GROUND.
- MULCH TO BE APPLIED AT A MINIMUM OF 2 INCHES DEPTH WITH 80-90% COVERAGE.
- AREAS OF DISTURBED SOILS MUST BE STABILIZED PRIOR TO ANY RUNOFF-PRODUCING EVENT, WITH THE FOLLOWING EXCEPTION:
    - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH NO OUTLET AND A DEPTH OF 2 FT OR GREATER (OPEN UTILITY TRENCHES), PROVIDED THAT ANY DEWATERING, IF NECESSARY, IS CONDUCTED AS REQUIRED.
- PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 1" THICKNESS.
- USE STONE TO STABILIZE AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED.

NO EARTH DISTURBANCE ACTIVITIES ARE ANTICIPATED TO OCCUR DURING THE WINTER CONSTRUCTION PERIOD.

11. INSPECTION AND MAINTENANCE

INSPECTION AND MONITORING OF THE PROJECT'S EPSC MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION 653.04 MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN, ALONG WITH PERMIT SPECIFIC INSPECTION REQUIREMENTS. INSPECTIONS OF EPSC MEASURES SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND IMMEDIATELY BEFORE ANY STORMWATER RUNOFF PRODUCING EVENT.

DURING DEWATERING OPERATIONS, INSPECTIONS OF THE DEWATERING DISCHARGE SHALL BE CONDUCTED ONCE PER DAY. SAMPLES SHALL BE TAKEN AT ALL POINTS WHERE DEWATERING WATER IS DISHCARGED AND MUST BE TAKEN AFTER THE DEWATERING WATER HAS BEEN TREATED BY INSTALLED TREATMENT DEVICES AND PRIOR TO DISCHARGE OFF SITE INTO A RECEIVING WATER, CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURE, OR STORM DRAIN INLET. SAMPLES MUST BE MEASURED USING A TURBIDITY METER (NTUS), CALIBRATED PRIOR TO EACH DAY'S USE.

CONTRACTORS SHALL PROVIDE A COPY OF THEIR INSPECTION FORM AS PART OF THEIR EPSC PLAN.

ALL EPSC MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

12. BORROW AND WASTE MATERIAL

BORROW AND WASTE MATERIALS TO BE PERMITTED UNDER A SEPARATE NOI.

ESTIMATED BORROW
- 1,700 CY OF SAND BORROW
- 1,600 CY OF GRANULAR BACKFILL FOR STRUCTURES
- 2,850 CY OF SUBBASE OF DENSE GRADED CRUSHED STONE
- 50 CY OF AGGREGATE SHOULDERS
- 800 CY OF E-STONE FILL, TYPE II
- 1,000 CY OF TOPSOIL
- 115 CY OF GRUBBING MATERIAL

ESTIMATED WASTE
- 48,890 CY OF EXCAVATION
- 39,600 CY TO BE RE-USED ON SITE
- 9,290 CY OF WASTE MATERIAL

WASTE MATERIALS ARE ANTICIPATED TO BE SILTY CLAY SOILS MEETING AASHTO CLASSIFICATIONS A-4, A-5, A-6, A-7.

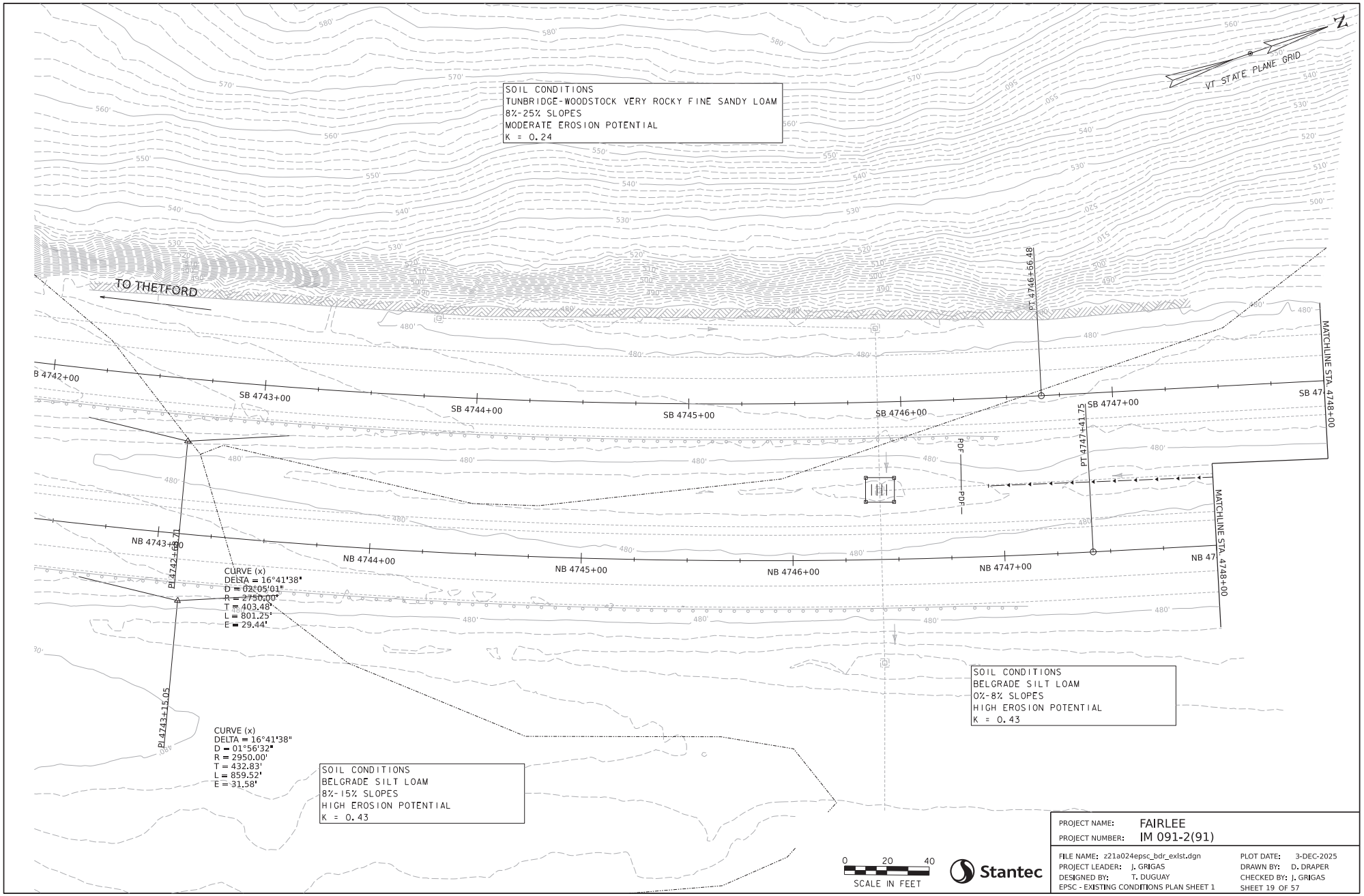
13. ADDITIONAL NOTES

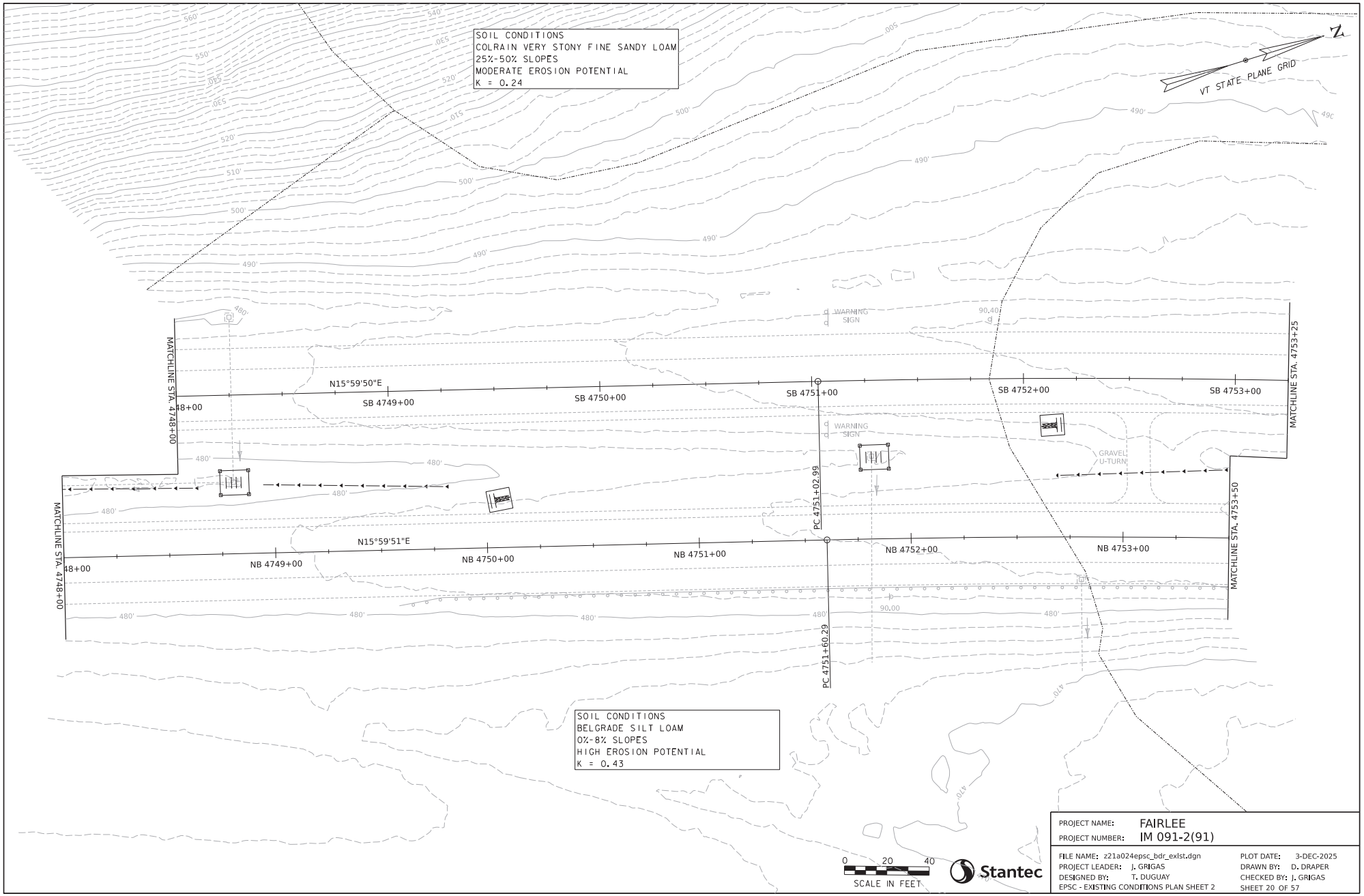
1. POLLUTION CONTROL SHALL BE IN ACCORDANCE WITH SUBSECTION 105.24 OF THE STANDARD SPECIFICATION 653.04.
2. SEEDING SHALL BE COMPLETED AFTER APRIL 15 AND BEFORE SEPTEMBER 15, UNLESS NOTED OTHERWISE.
3. ALL TEMPORARY EPSC PRACTICES SHALL BE REMOVED WITHIN 30 DAYS OF ACHIEVING FINAL STABILITATION.
4. A NOTICE OF TERMINATION SHALL BE SUBMITTED ONCE FINAL STABILIZATION IS MET.

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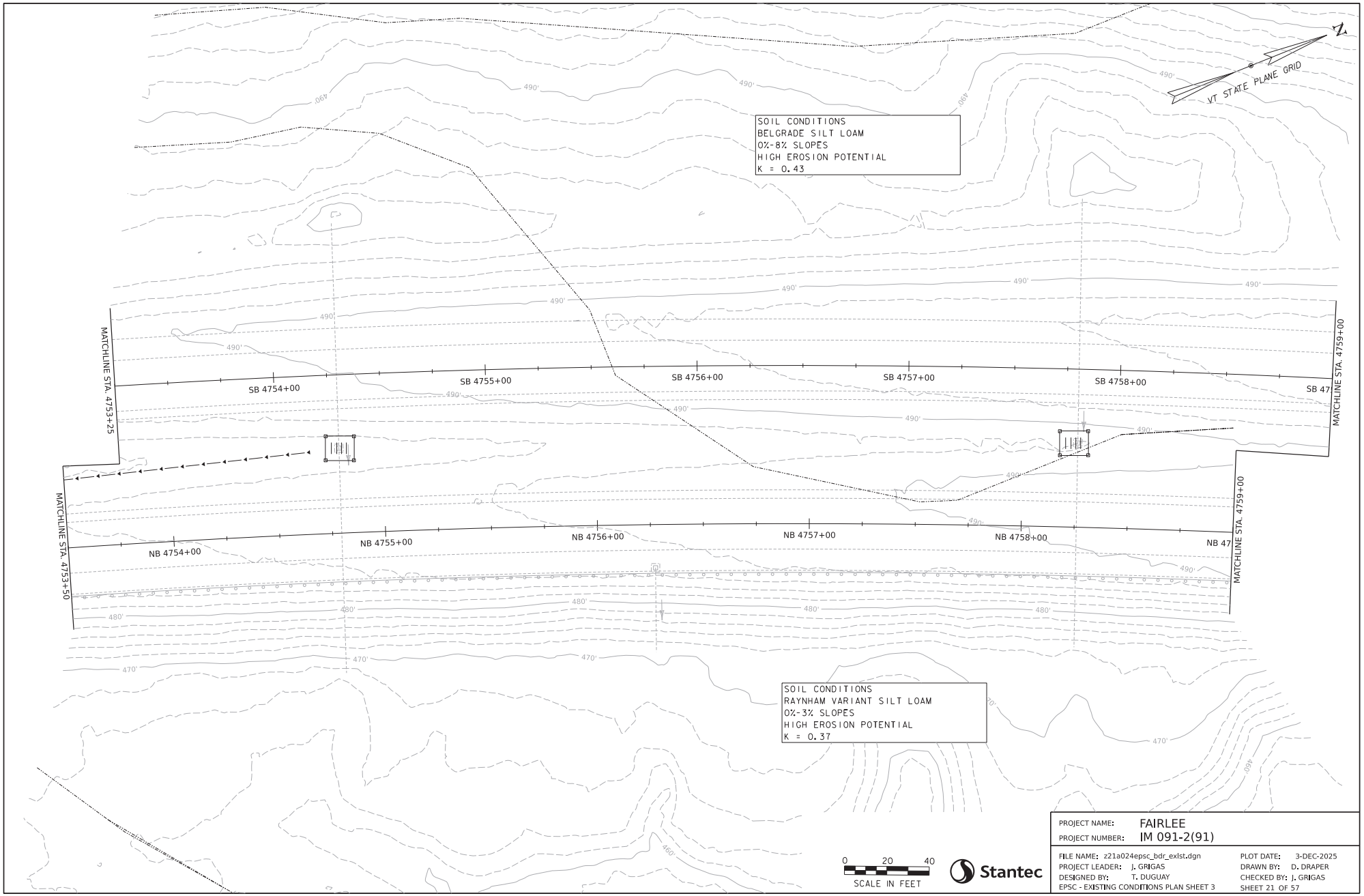
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024_frm.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
EPSC- NARRATIVE SHEET 2	SHEET 18 OF 57

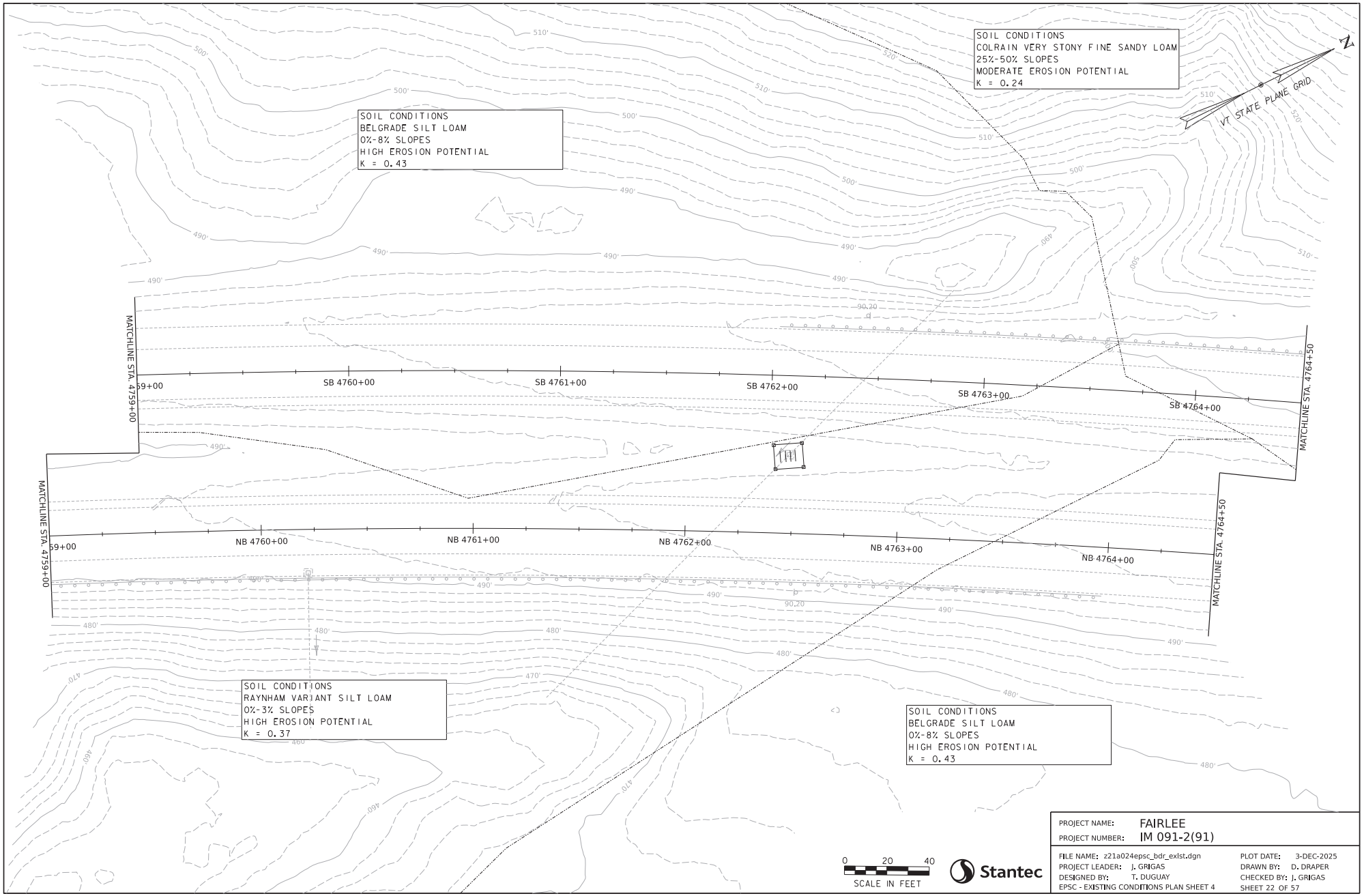

SOIL CONDITIONS
TUNBRIDGE-WOODSTOCK VERY ROCKY FINE SANDY LOAM
8%-25% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
VT STATE PLANE GRID
TO THETFORD
PT 4746+56.48
MATCHLINE STA. 4748+00
SB 4742+00
SB 4743+00
SB 4744+00
SB 4745+00
SB 4746+00
SB 4747+00
PT 4747+41.75
POT
POT
NB 4743+00
NB 4744+00
NB 4745+00
NB 4746+00
NB 4747+00
MATCHLINE STA. 4748+00
PI 4742+68.71
CURVE (x)
DELTA = 16°41'38"
D = 02°05'01"
R = 2750.00'
T = 403.48'
L = 801.25'
E = 29.44'
PI 4743+15.05
CURVE (x)
DELTA = 16°41'38"
D = 01°56'32"
R = 2950.00'
T = 432.83'
L = 859.52'
E = 31.58'
SOIL CONDITIONS
BELGRADE SILT LOAM
8%-15% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - EXISTING CONDITIONS PLAN SHEET 1
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 19 OF 57



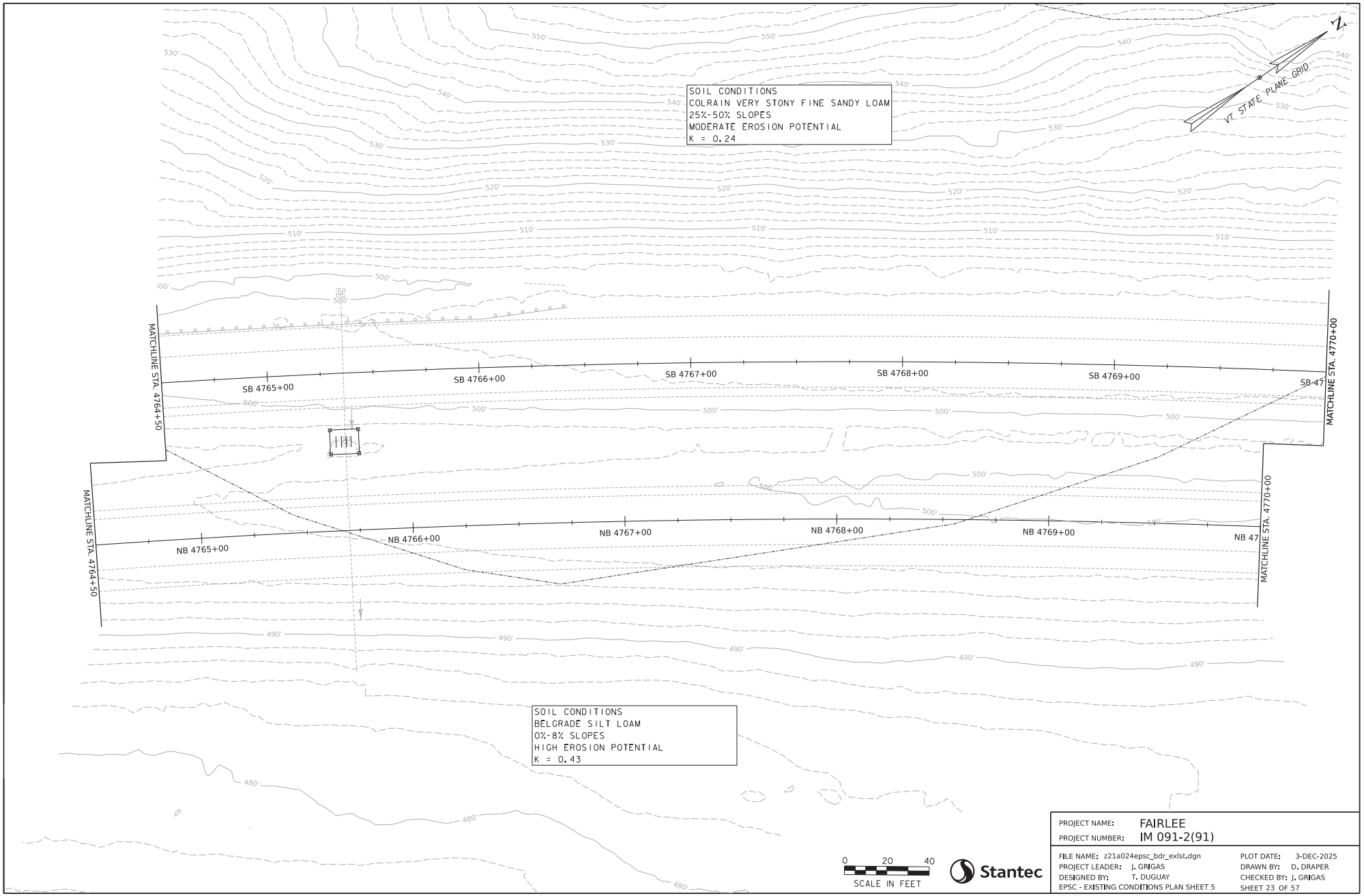
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 2	SHEET 20 OF 57



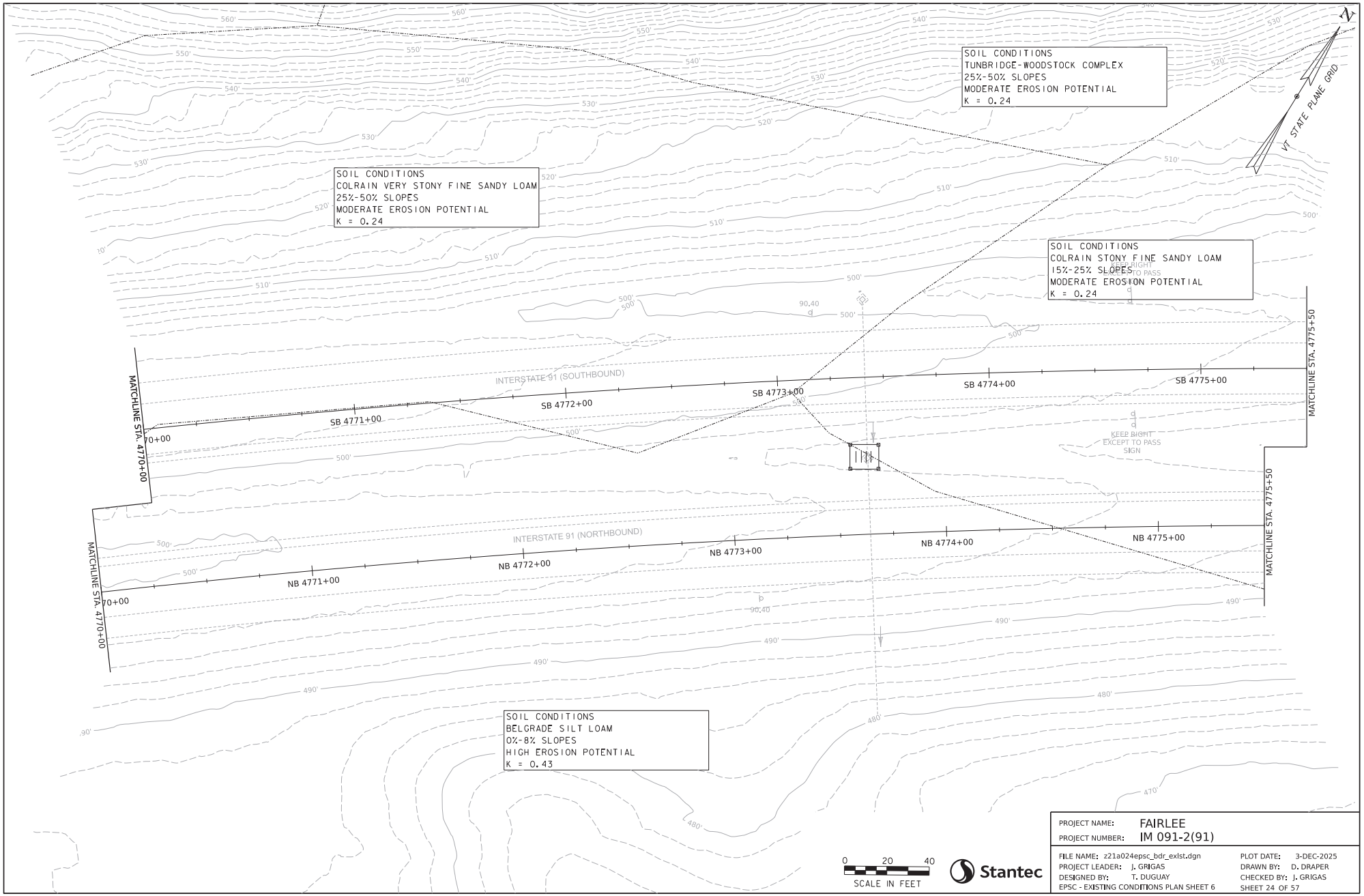
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 3	SHEET 21 OF 57



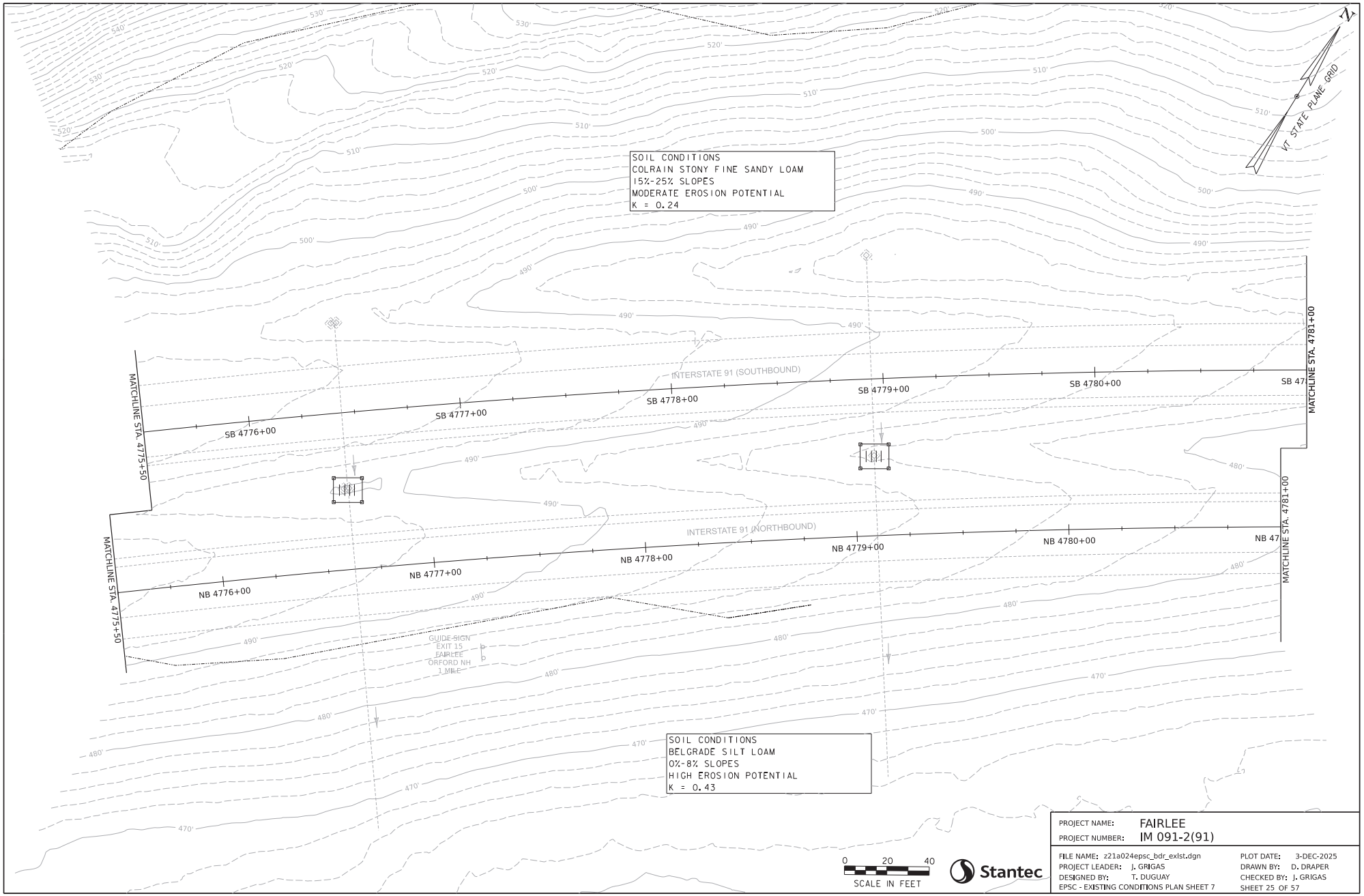
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 4	SHEET 22 OF 57



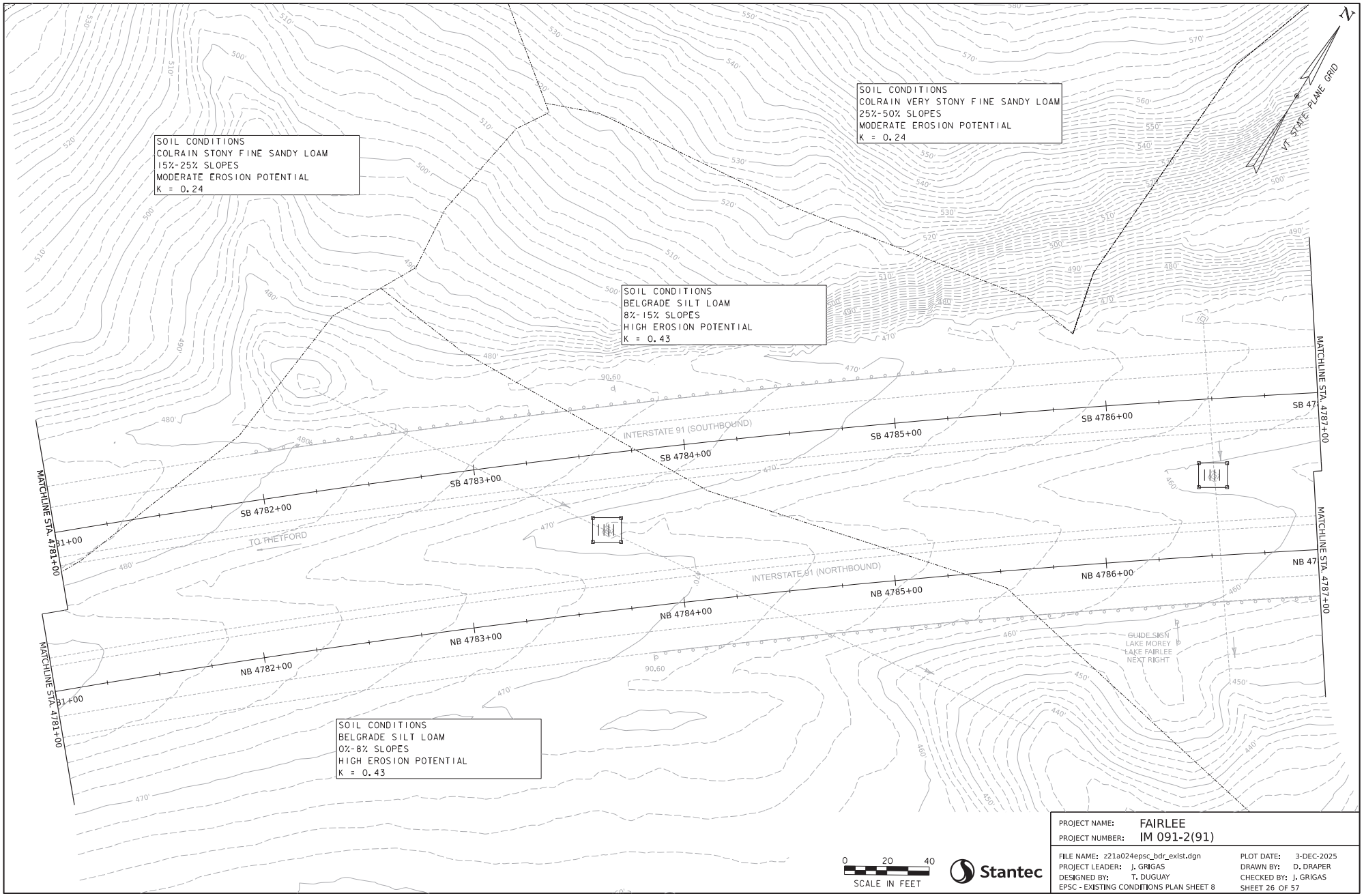
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 5	SHEET 23 OF 57

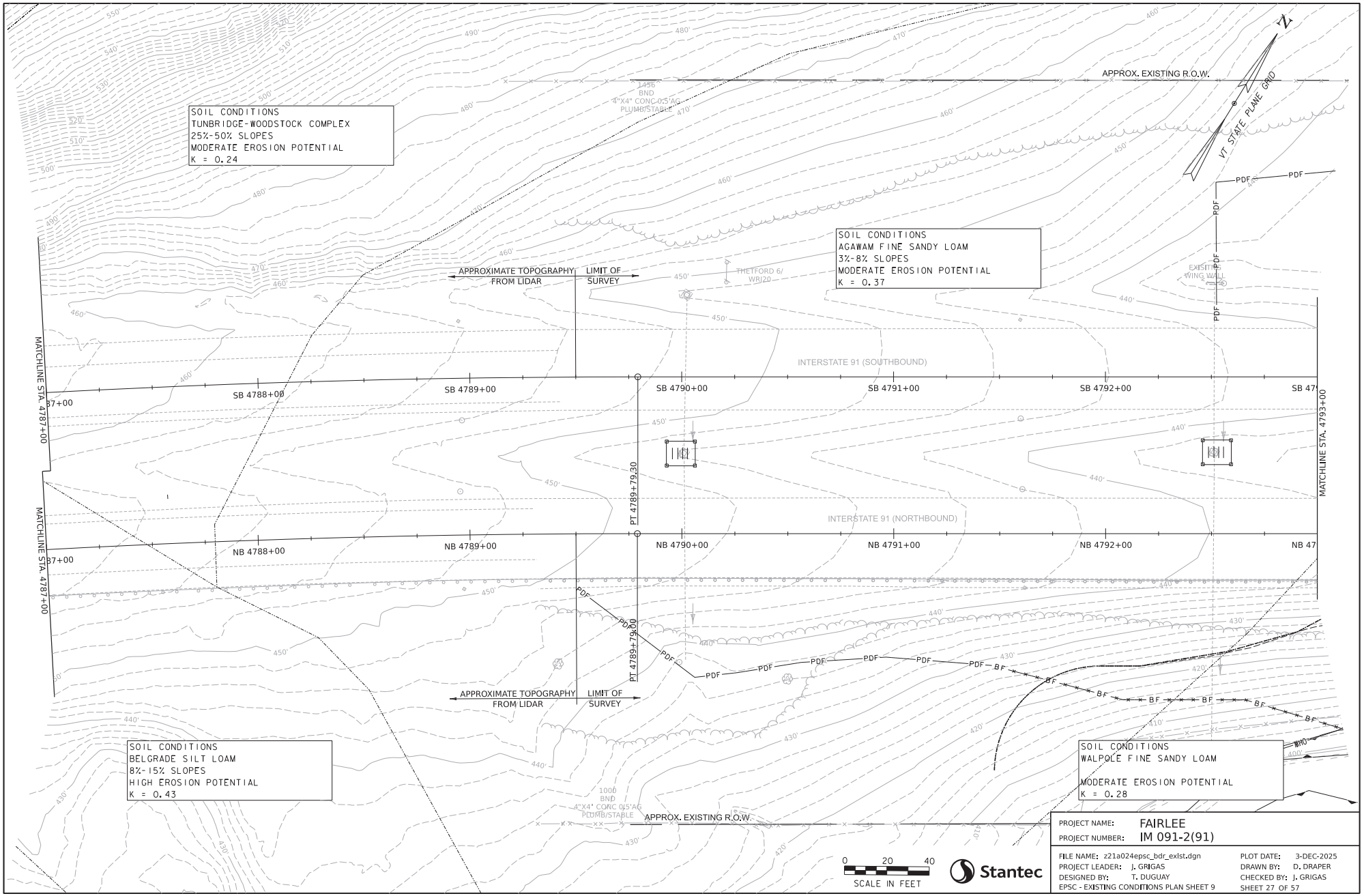


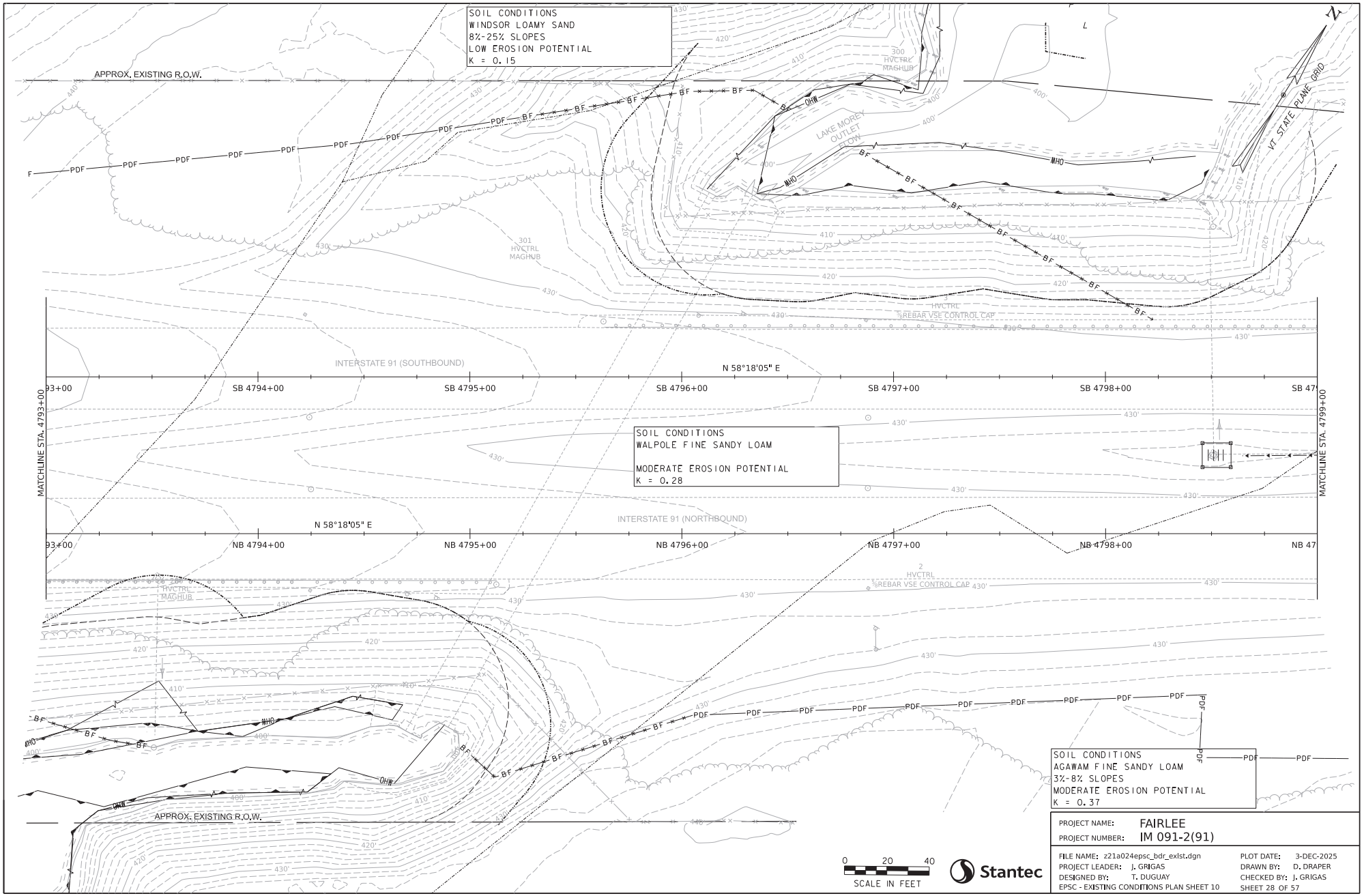
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 6	SHEET 24 OF 57



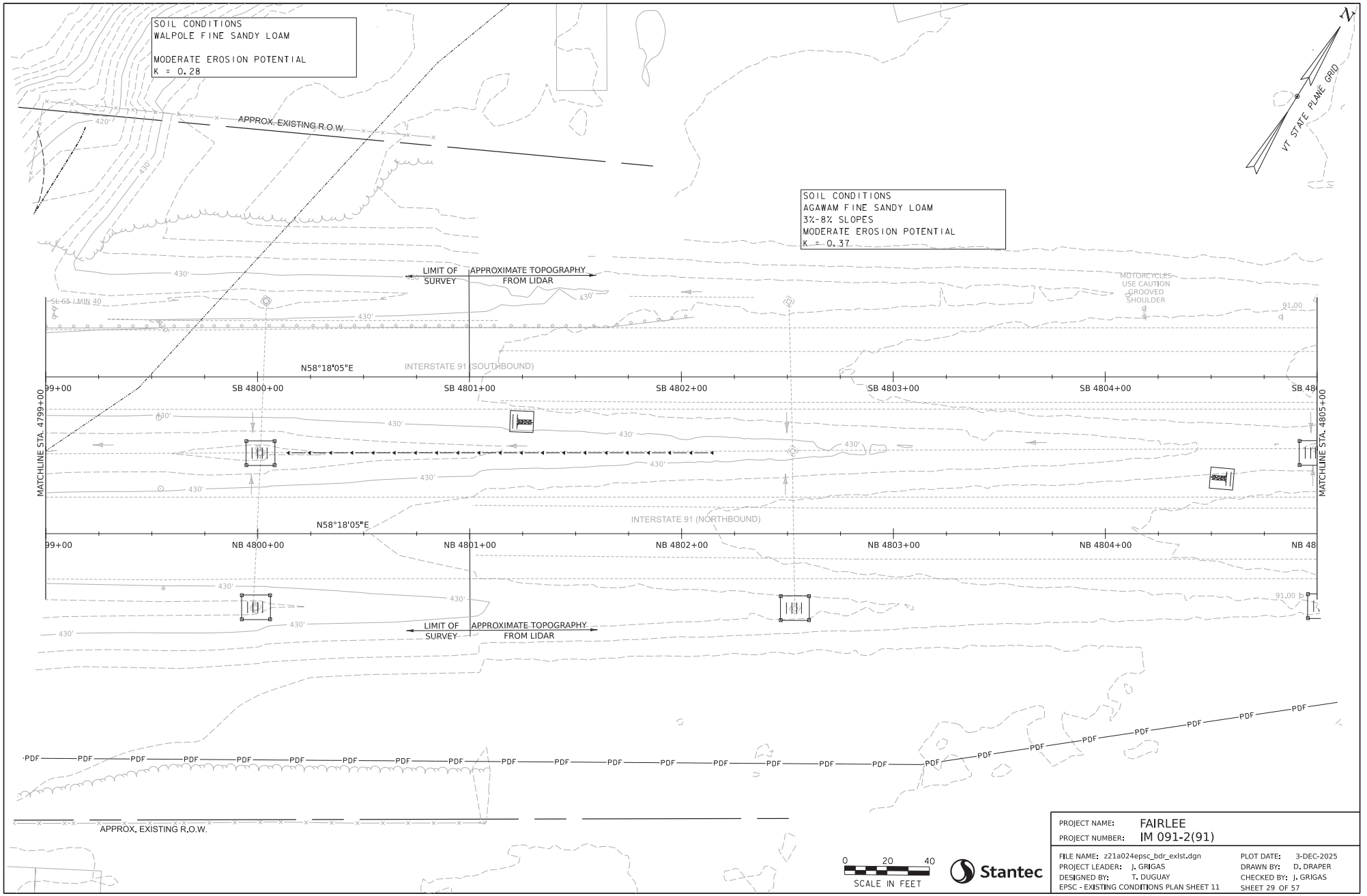
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 7	SHEET 25 OF 57


SOIL CONDITIONS
COLRAIN STONY FINE SANDY LOAM
15%-25% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
COLRAIN VERY STONY FINE SANDY LOAM
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
BELGRADE SILT LOAM
8%-15% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
N
VT STATE PLANE GRID
INTERSTATE 91 (SOUTHBOUND)
INTERSTATE 91 (NORTHBOUND)
SB 4782+00
SB 4783+00
SB 4784+00
SB 4785+00
SB 4786+00
NB 4782+00
NB 4783+00
NB 4784+00
NB 4785+00
NB 4786+00
MATCHLINE STA. 4781+00
MATCHLINE STA. 4787+00
TO THETFORD
GUIDE SIGN
LAKE MOREY
LAKE FAIRLEE
NEXT RIGHT
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - EXISTING CONDITIONS PLAN SHEET 8
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 26 OF 57

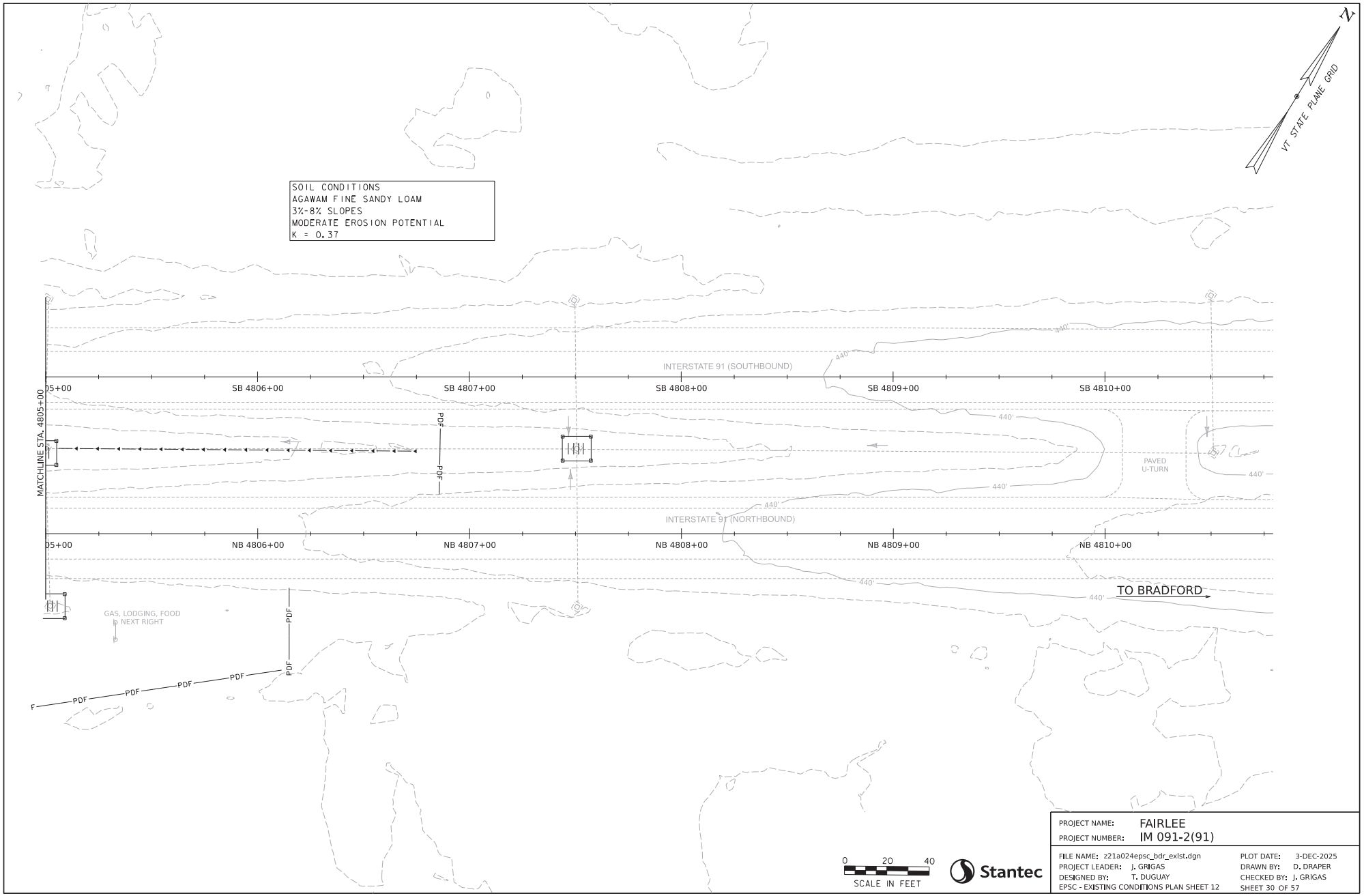

SOIL CONDITIONS
TUNBRIDGE-WOODSTOCK COMPLEX
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
AGAWAM FINE SANDY LOAM
3%-8% SLOPES
MODERATE EROSION POTENTIAL
K = 0.37
SOIL CONDITIONS
BELGRADE SILT LOAM
8%-15% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOIL CONDITIONS
WALPOLE FINE SANDY LOAM
MODERATE EROSION POTENTIAL
K = 0.28
APPROX. EXISTING R.O.W.
APPROXIMATE TOPOGRAPHY FROM LIDAR
LIMIT OF SURVEY
INTERSTATE 91 (SOUTHBOUND)
INTERSTATE 91 (NORTHBOUND)
SB 4788+00
SB 4789+00
SB 4790+00
SB 4791+00
SB 4792+00
NB 4788+00
NB 4789+00
NB 4790+00
NB 4791+00
NB 4792+00
PT 4789+79.30
PT 4789+79.00
MATCHLINE STA. 4787+00
MATCHLINE STA. 4793+00
VT STATE PLANE GRID
EXISTING WING WALL
THETFORD 6/ WRJ20
1456 BND 4"X4" CONC 05'AG PLUMB/STABLE
1000 BND 4"X4" CONC 05'AG PLUMB/STABLE
PDF
BF
WHO
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - EXISTING CONDITIONS PLAN SHEET 9
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 27 OF 57



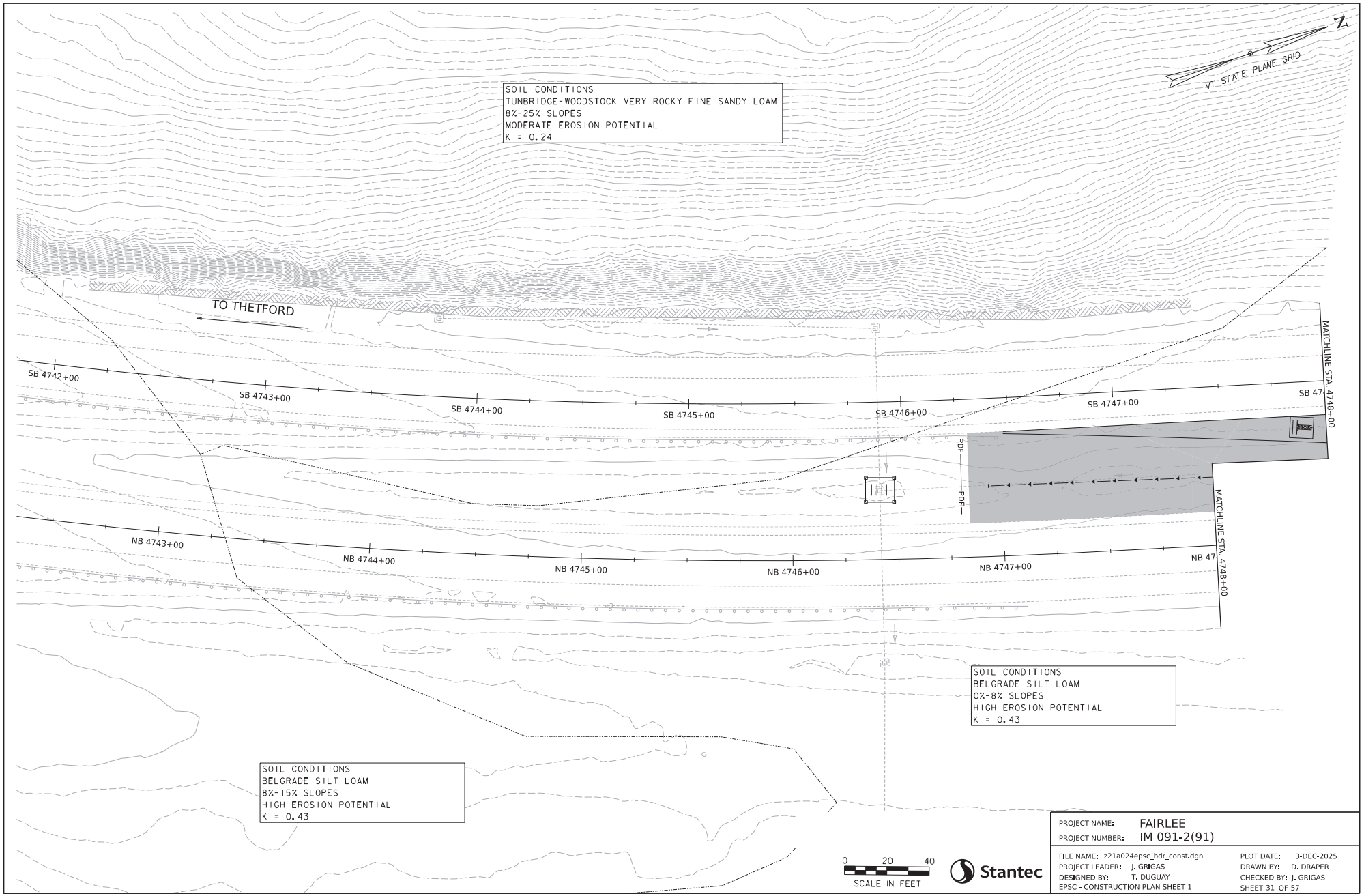
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 10	SHEET 28 OF 57



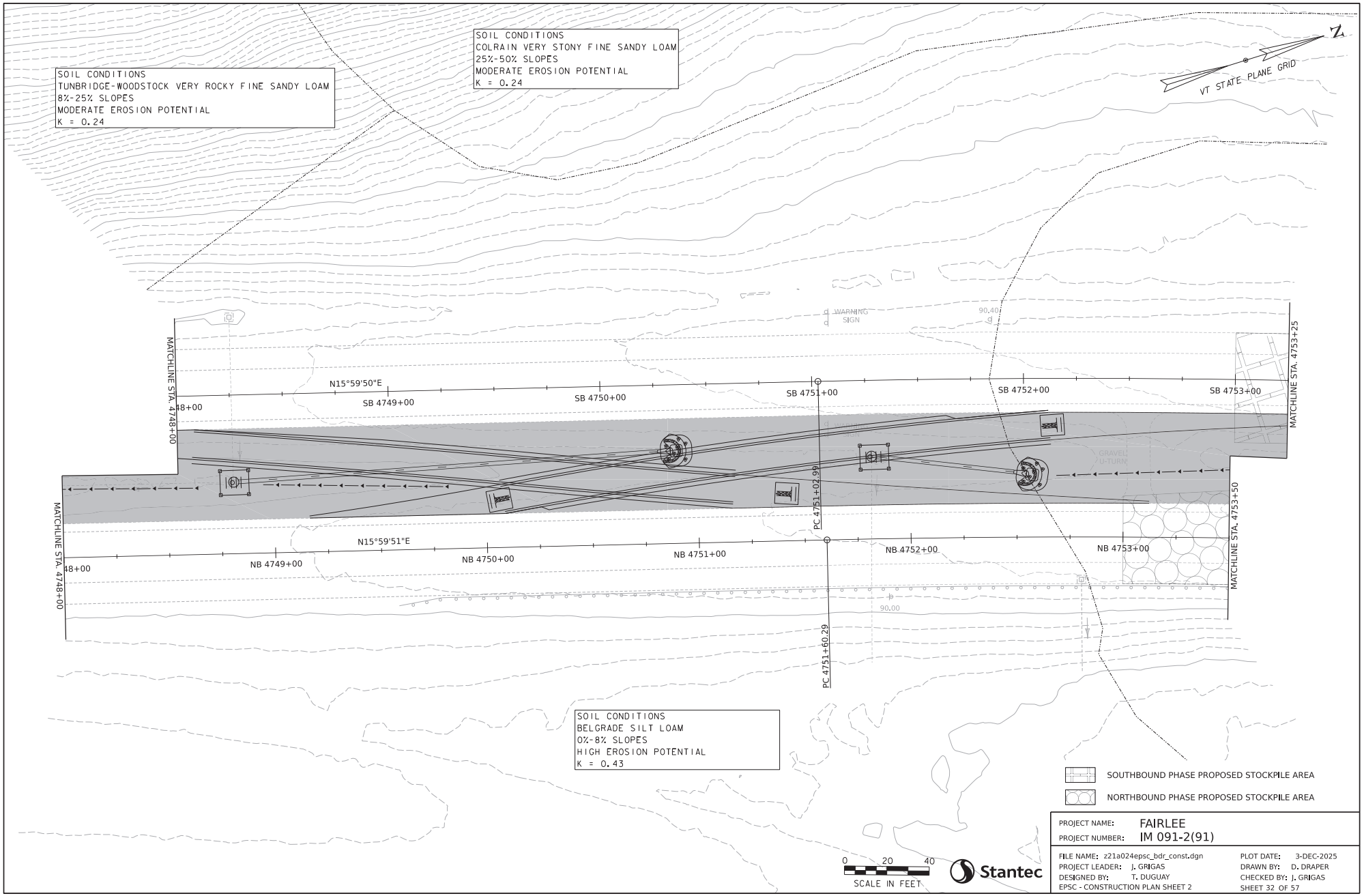
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 11	SHEET 29 OF 57

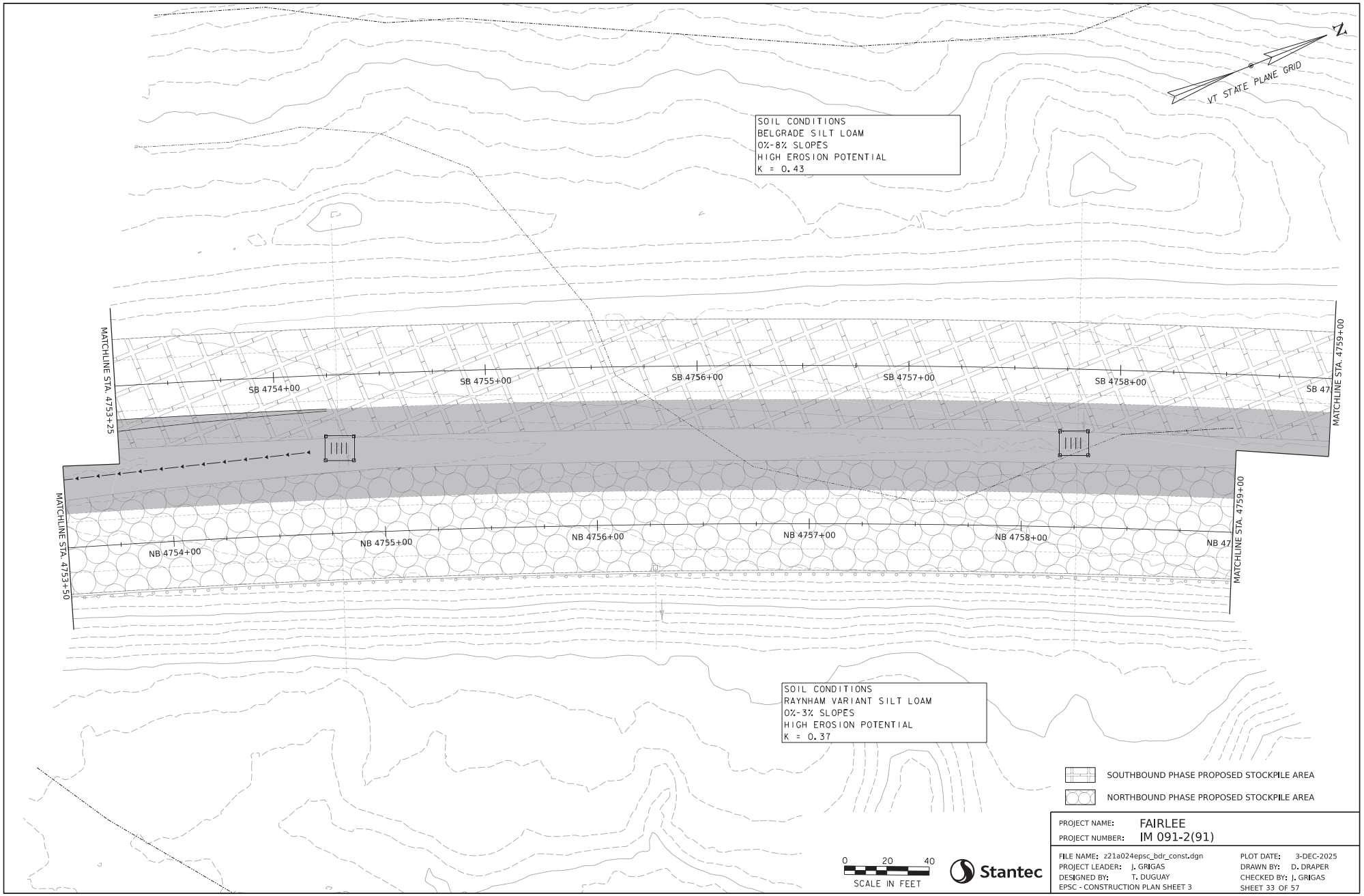


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 12	SHEET 30 OF 57

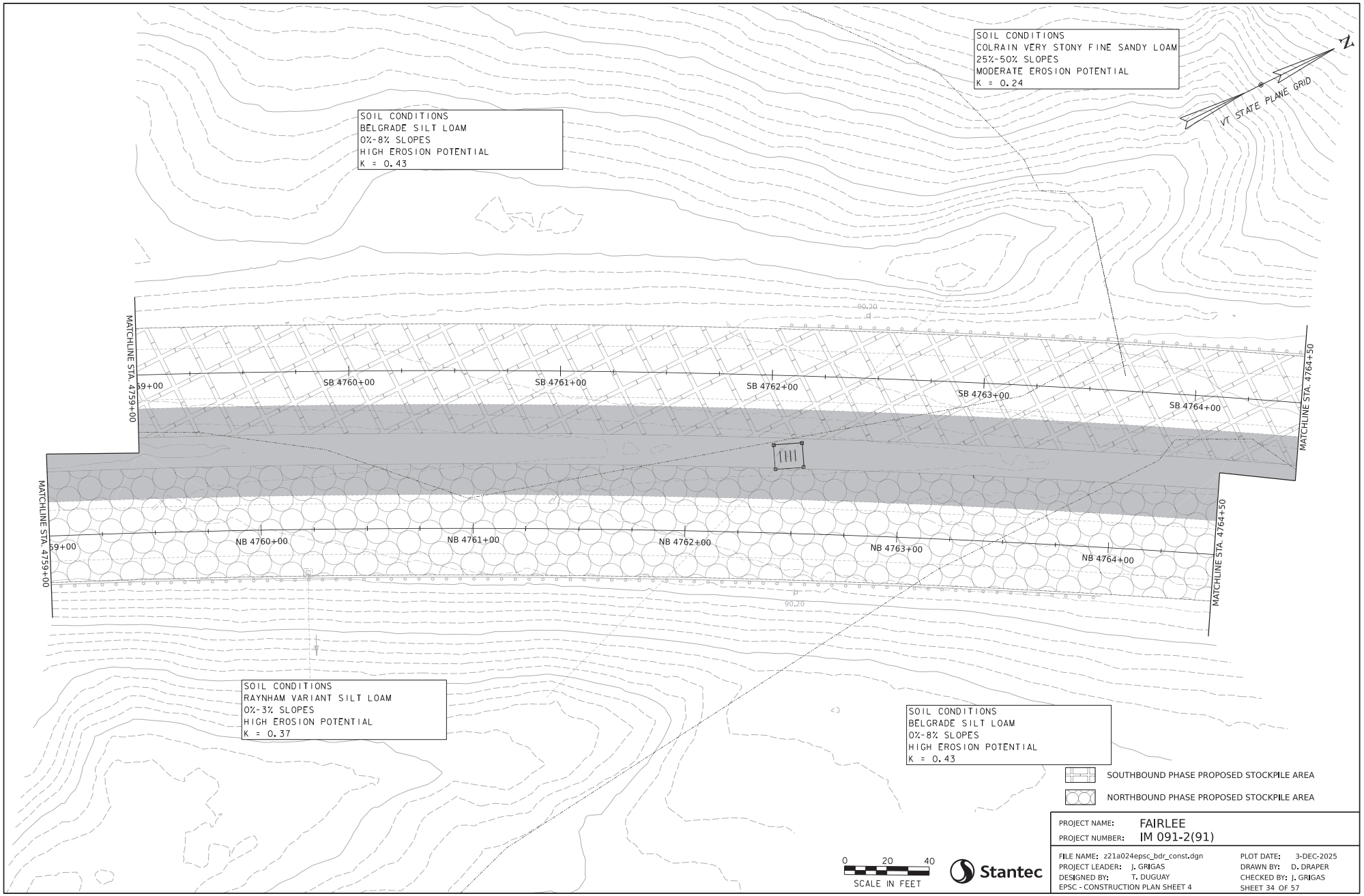


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 1	SHEET 31 OF 57

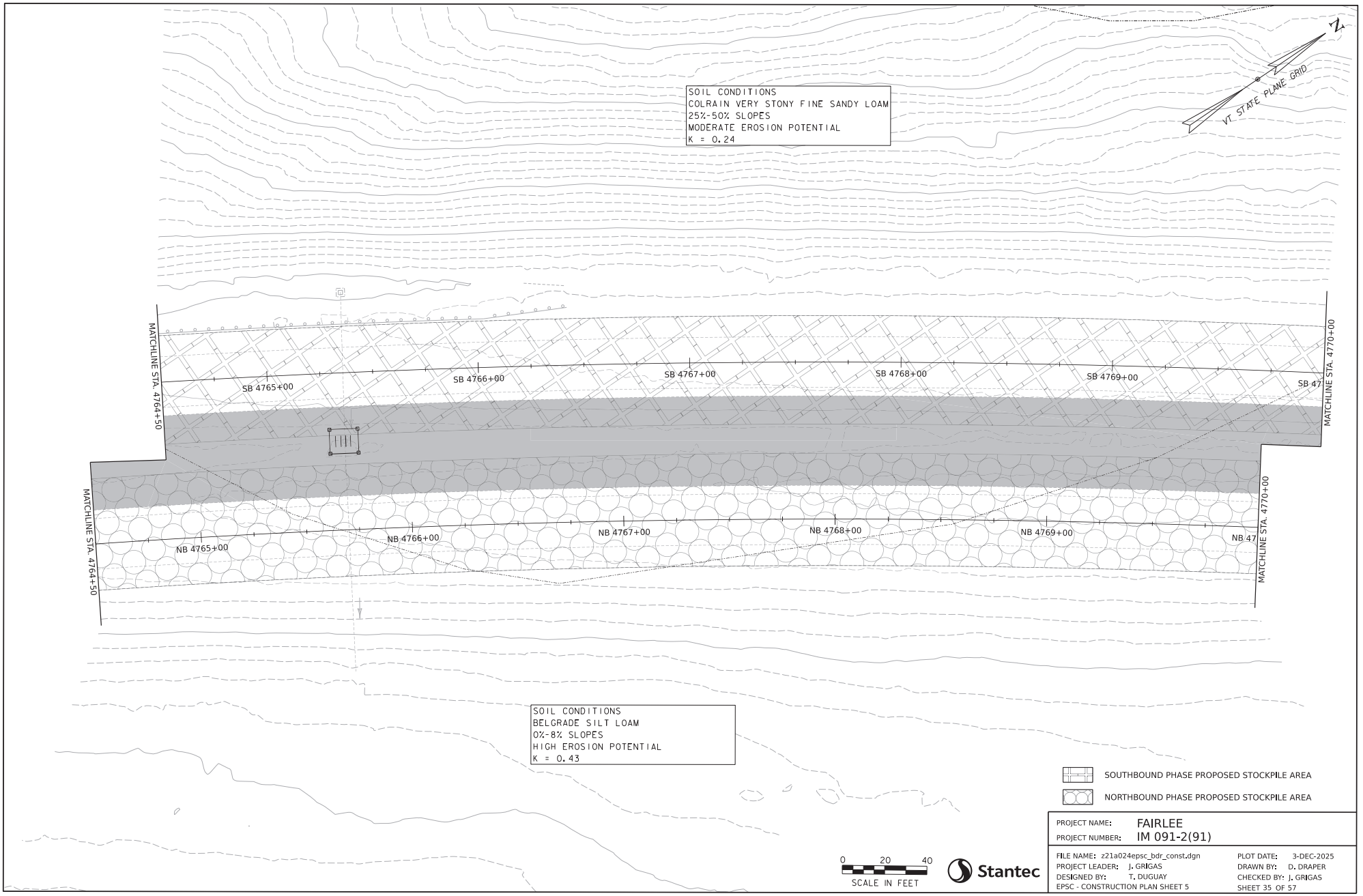

SOIL CONDITIONS
TUNBRIDGE-WOODSTOCK VERY ROCKY FINE SANDY LOAM
8%-25% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
COLRAIN VERY STONY FINE SANDY LOAM
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
VT STATE PLANE GRID
MATCHLINE STA. 4748+00
MATCHLINE STA. 4753+25
N15°59'50"E
SB 4749+00
SB 4750+00
SB 4751+00
SB 4752+00
SB 4753+00
PC 4751+02.99
WARNING SIGN
90.40
GRAVEL U-TURN
MATCHLINE STA. 4748+00
MATCHLINE STA. 4753+50
N15°59'51"E
NB 4749+00
NB 4750+00
NB 4751+00
NB 4752+00
NB 4753+00
90.00
PC 4751+60.29
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOUTHBOUND PHASE PROPOSED STOCKPILE AREA
NORTHBOUND PHASE PROPOSED STOCKPILE AREA
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - CONSTRUCTION PLAN SHEET 2
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 32 OF 57

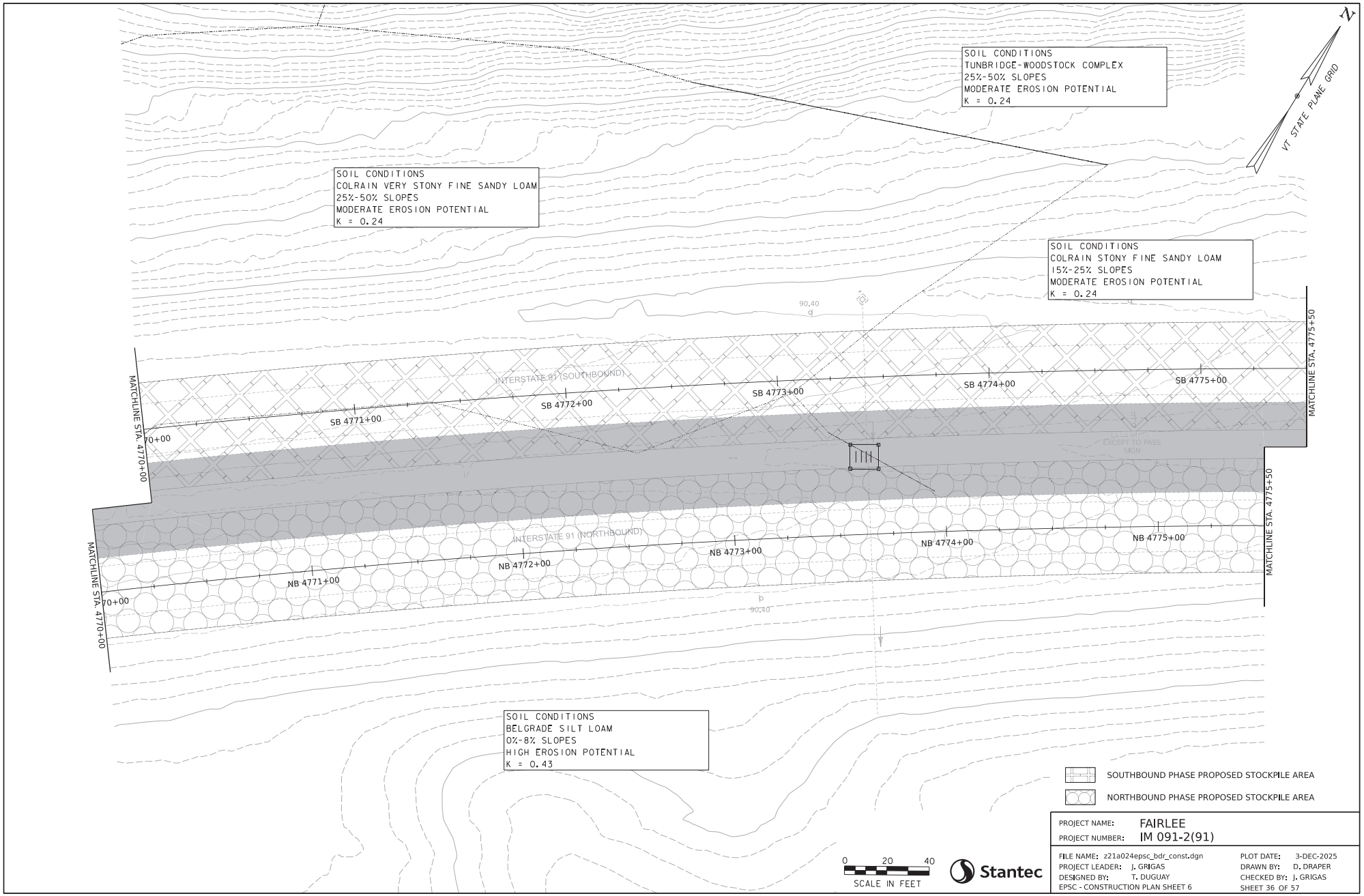


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 3	SHEET 33 OF 57

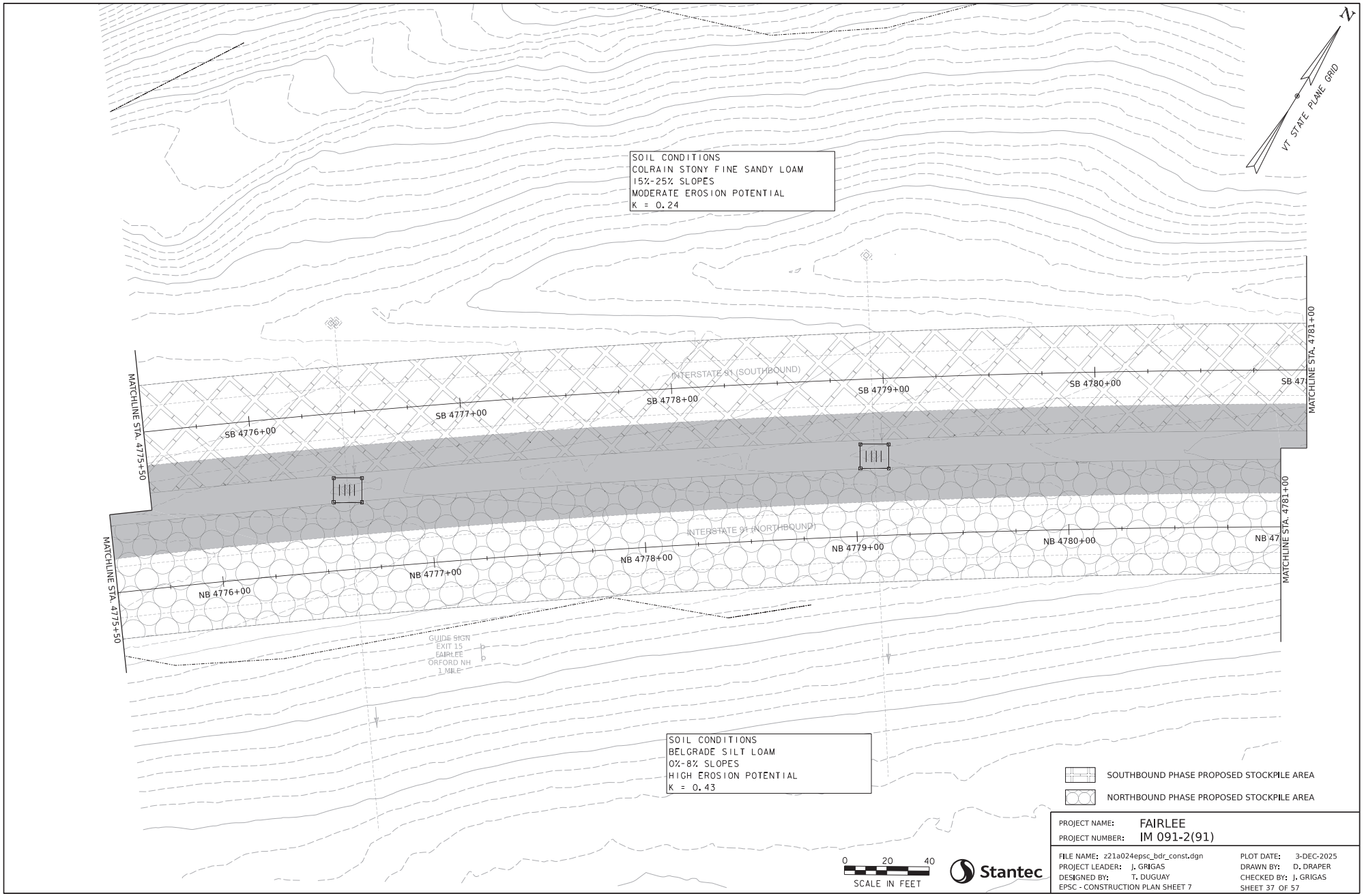


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 4	SHEET 34 OF 57

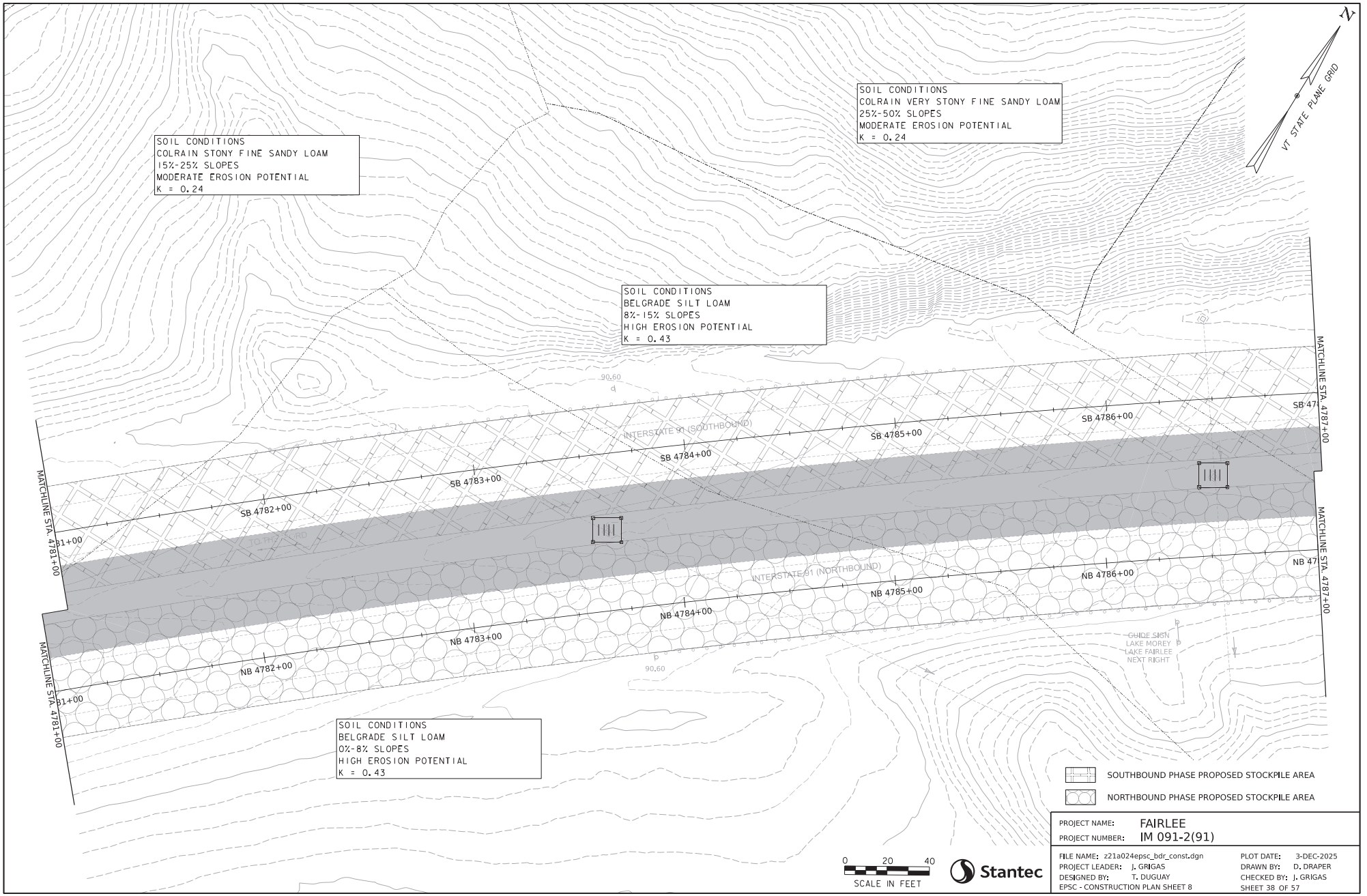

SOIL CONDITIONS
COLRAIN VERY STONY FINE SANDY LOAM
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
N
VT STATE PLANE GRID
MATCHLINE STA. 4764+50
SB 4765+00
SB 4766+00
SB 4767+00
SB 4768+00
SB 4769+00
SB 47
MATCHLINE STA. 4770+00
MATCHLINE STA. 4764+50
NB 4765+00
NB 4766+00
NB 4767+00
NB 4768+00
NB 4769+00
NB 47
MATCHLINE STA. 4770+00
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOUTHBOUND PHASE PROPOSED STOCKPILE AREA
NORTHBOUND PHASE PROPOSED STOCKPILE AREA
0
20
40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - CONSTRUCTION PLAN SHEET 5
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 35 OF 57

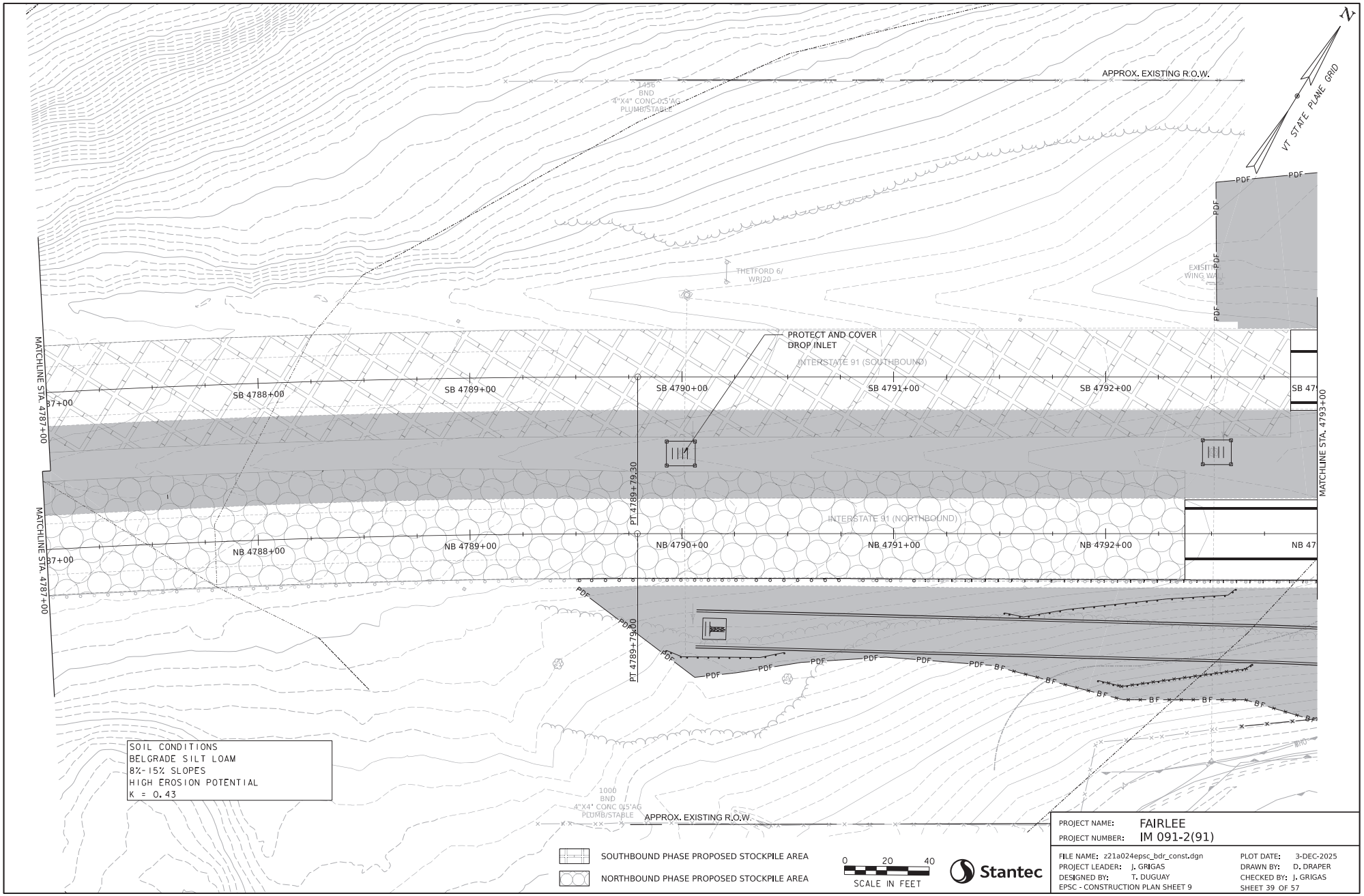


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 6	SHEET 36 OF 57

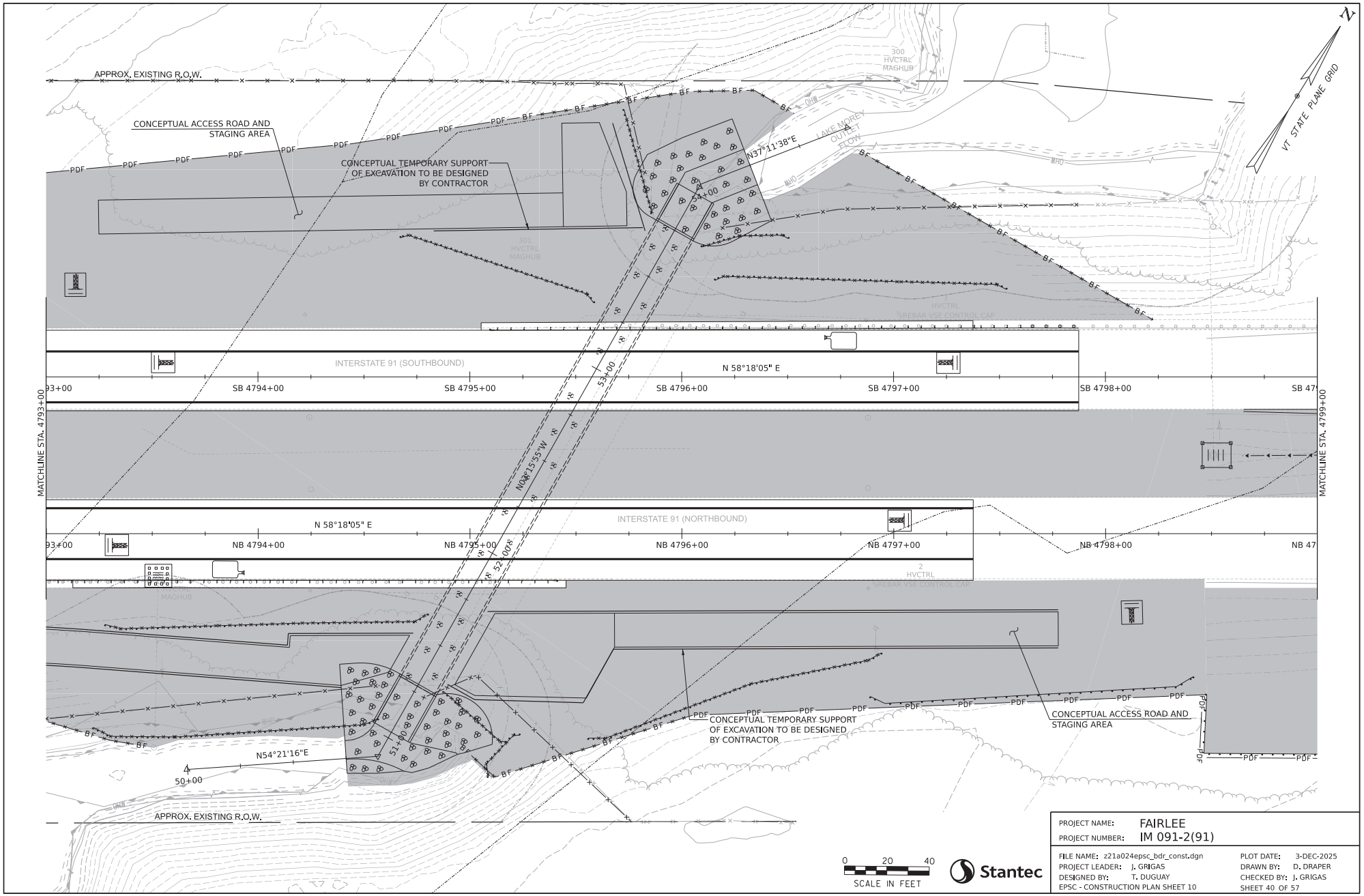


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 7	SHEET 37 OF 57

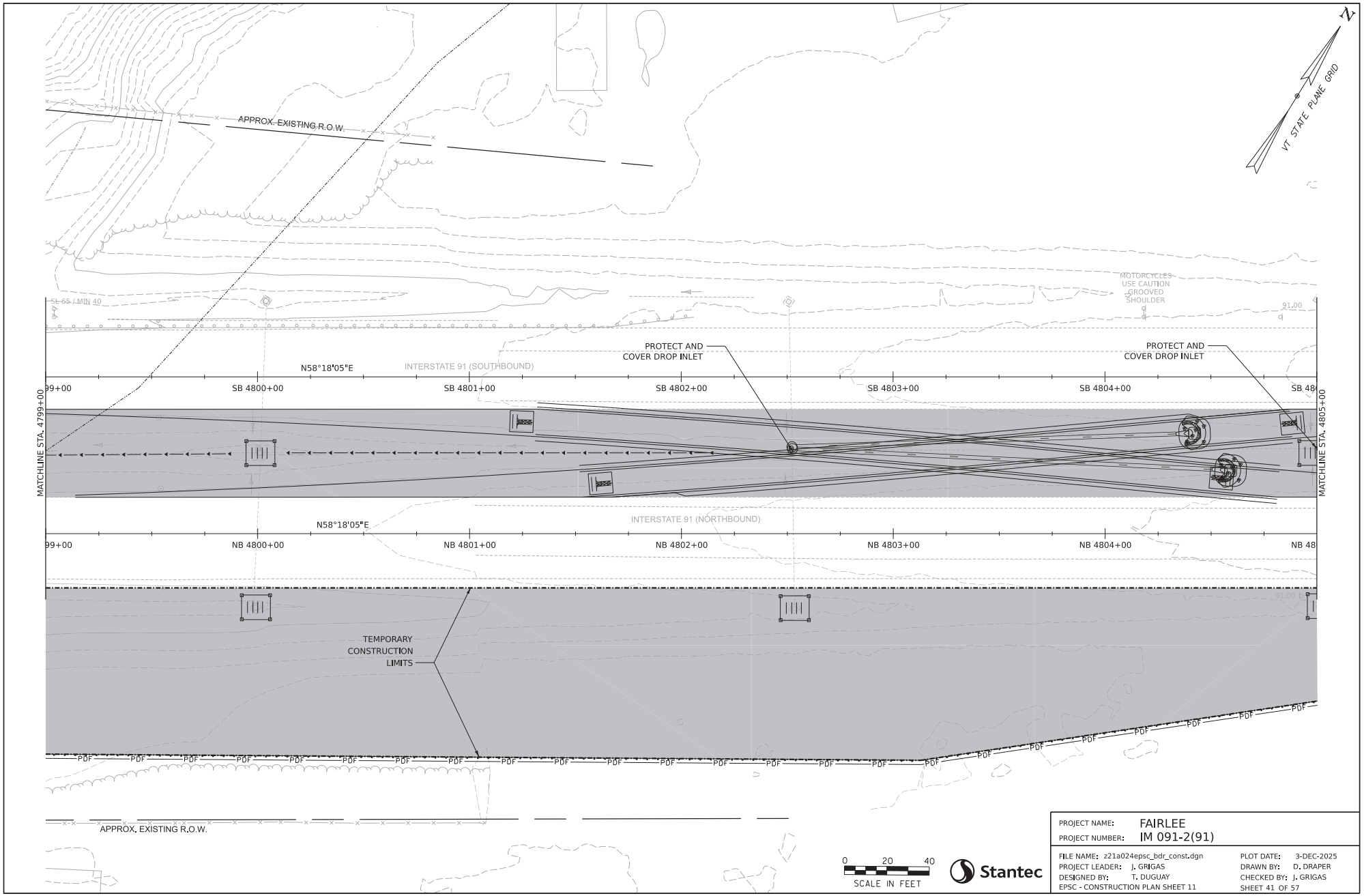

SOIL CONDITIONS
COLRAIN STONY FINE SANDY LOAM
15%-25% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
COLRAIN VERY STONY FINE SANDY LOAM
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
BELGRADE SILT LOAM
8%-15% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
N
VT STATE PLANE GRID
MATCHLINE STA. 4781+00
MATCHLINE STA. 4787+00
INTERSTATE 91 (SOUTHBOUND)
INTERSTATE 91 (NORTHBOUND)
SB 4782+00
SB 4783+00
SB 4784+00
SB 4785+00
SB 4786+00
NB 4782+00
NB 4783+00
NB 4784+00
NB 4785+00
NB 4786+00
GUIDE SIGN
LAKE MOREY
LAKE FAIRLEE
NEXT RIGHT
90.60
SOUTHBOUND PHASE PROPOSED STOCKPILE AREA
NORTHBOUND PHASE PROPOSED STOCKPILE AREA
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - CONSTRUCTION PLAN SHEET 8
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 38 OF 57



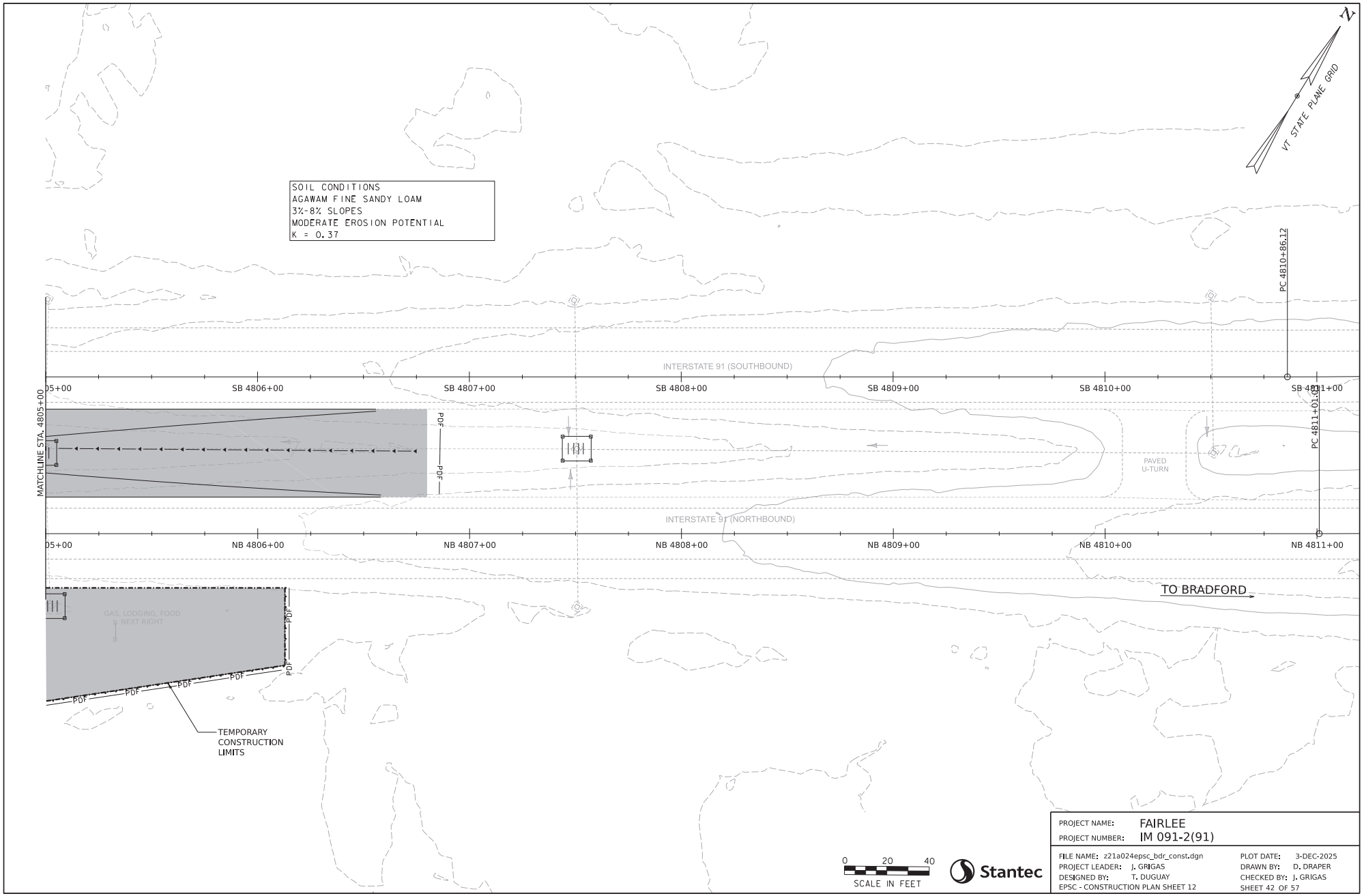
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 9	SHEET 39 OF 57



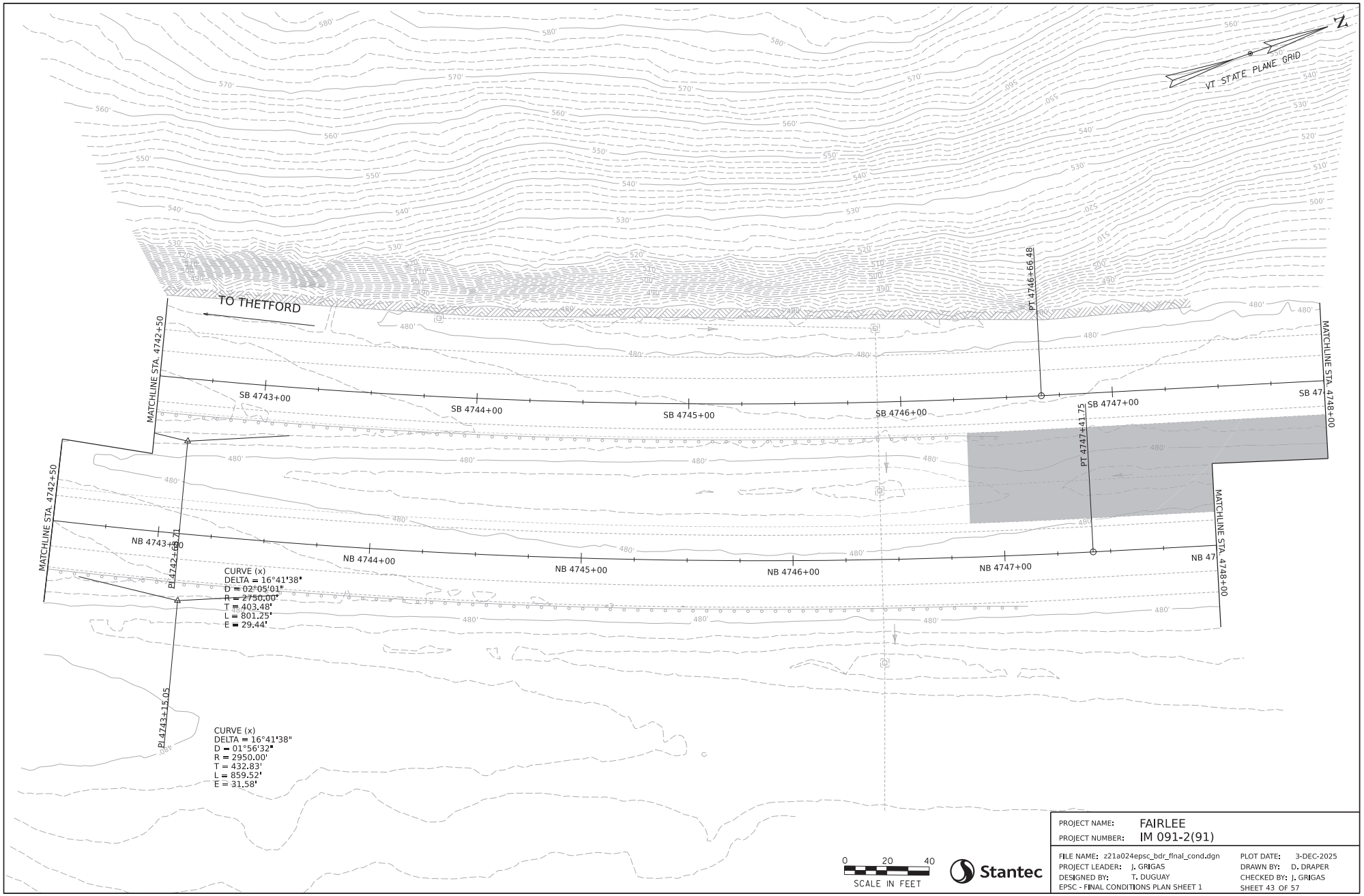
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 10	SHEET 40 OF 57



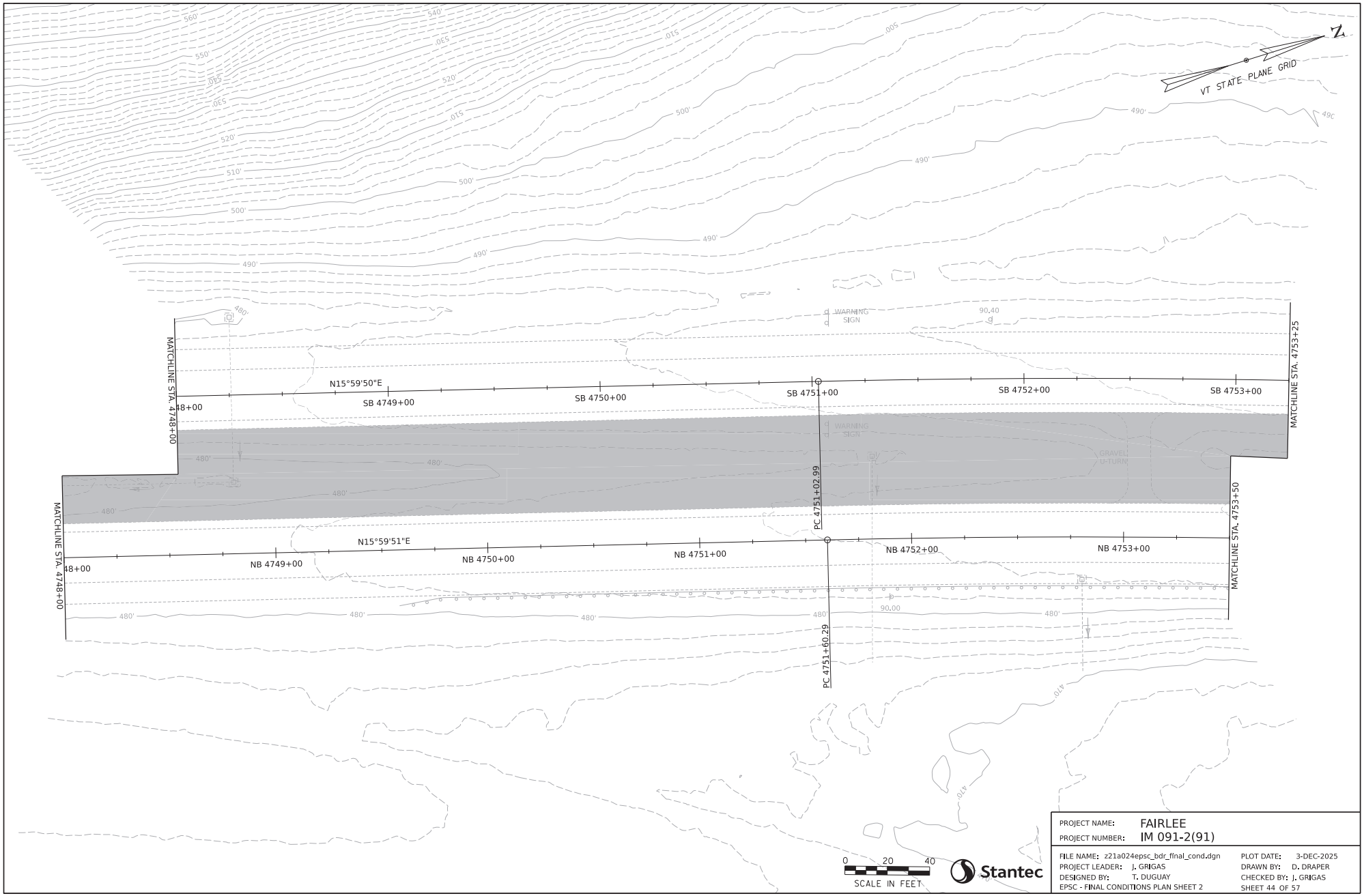
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 11	SHEET 41 OF 57



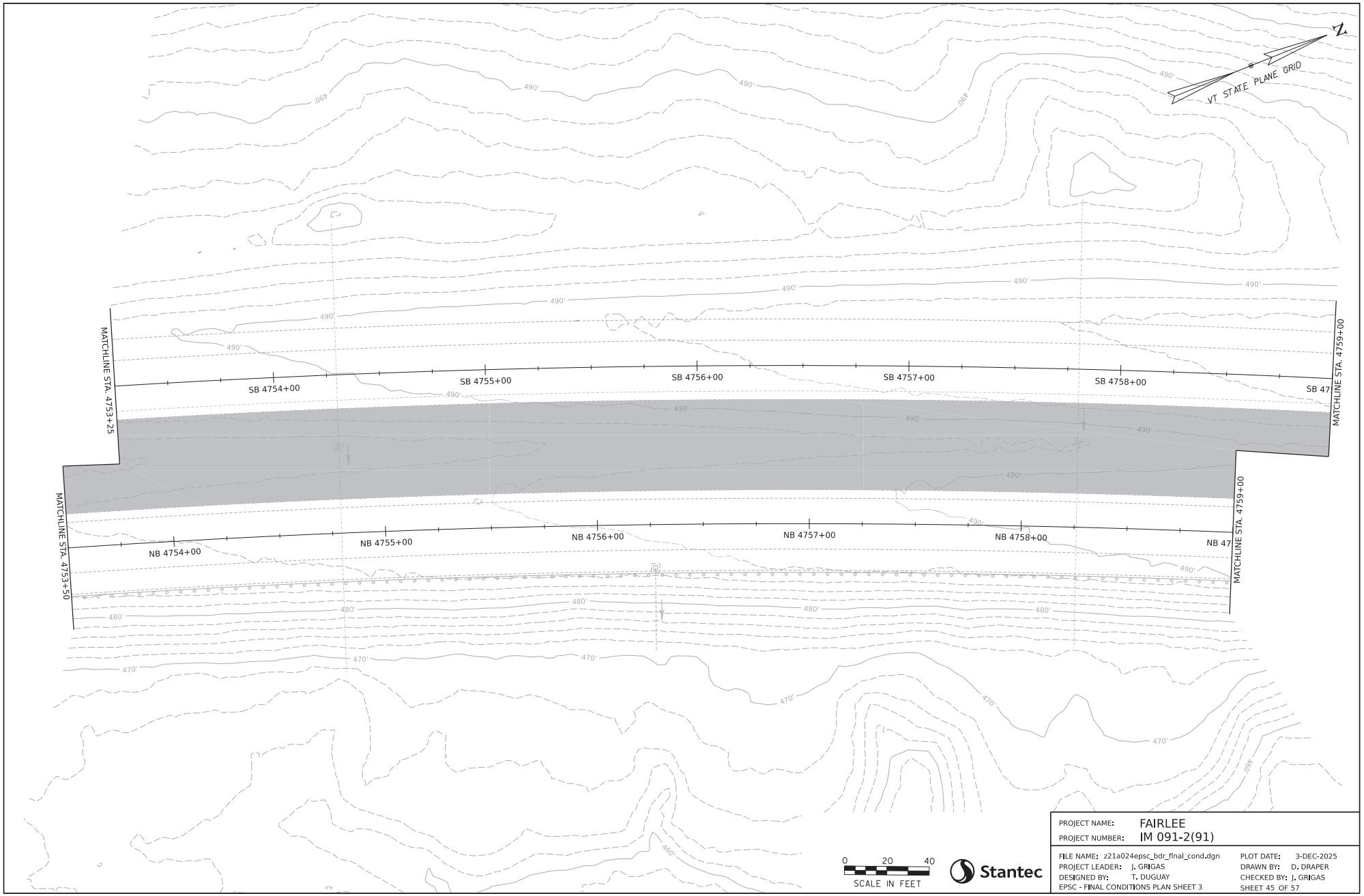
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_const.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - CONSTRUCTION PLAN SHEET 12	SHEET 42 OF 57



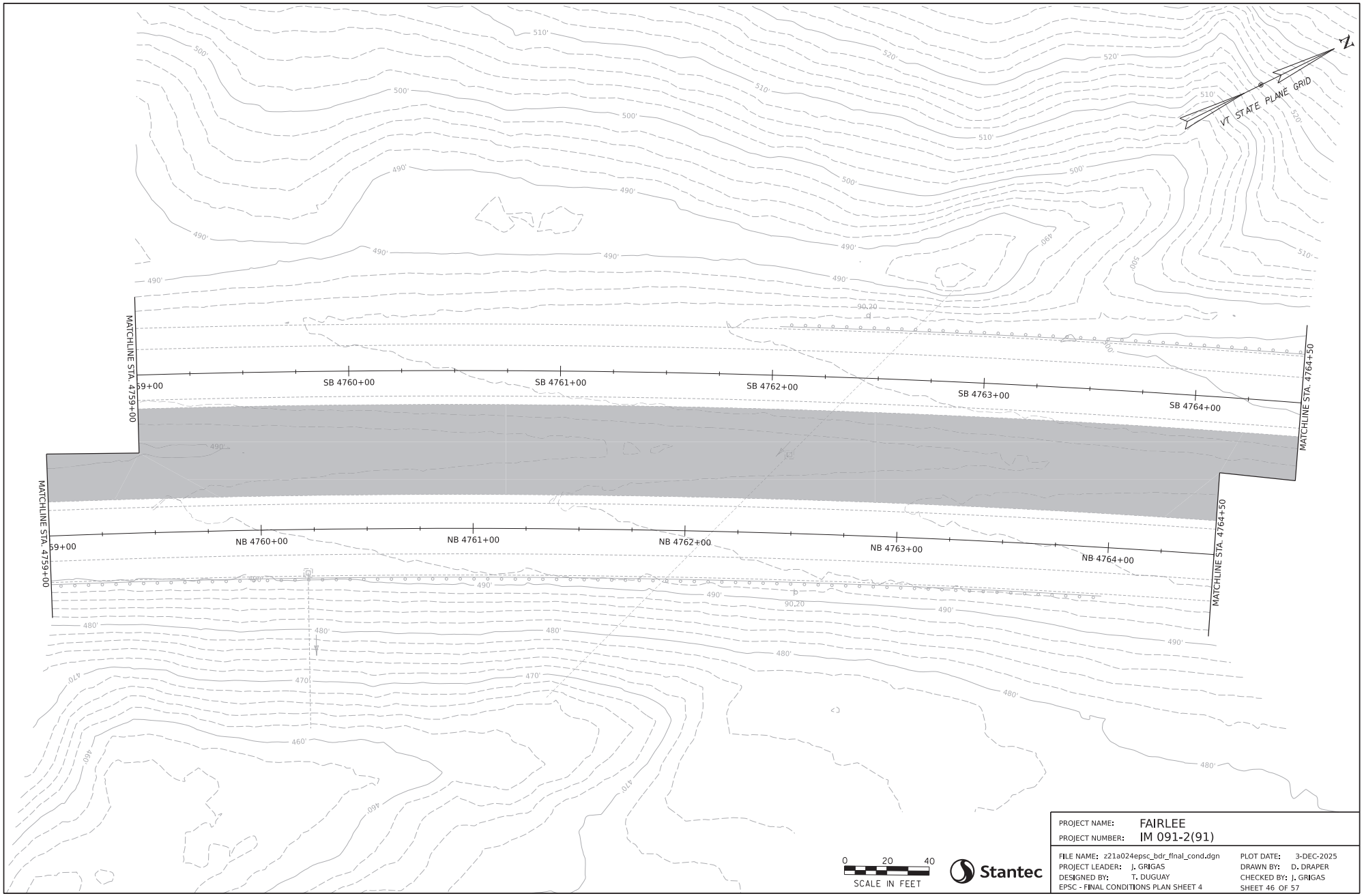
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 1	SHEET 43 OF 57



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 2	SHEET 44 OF 57

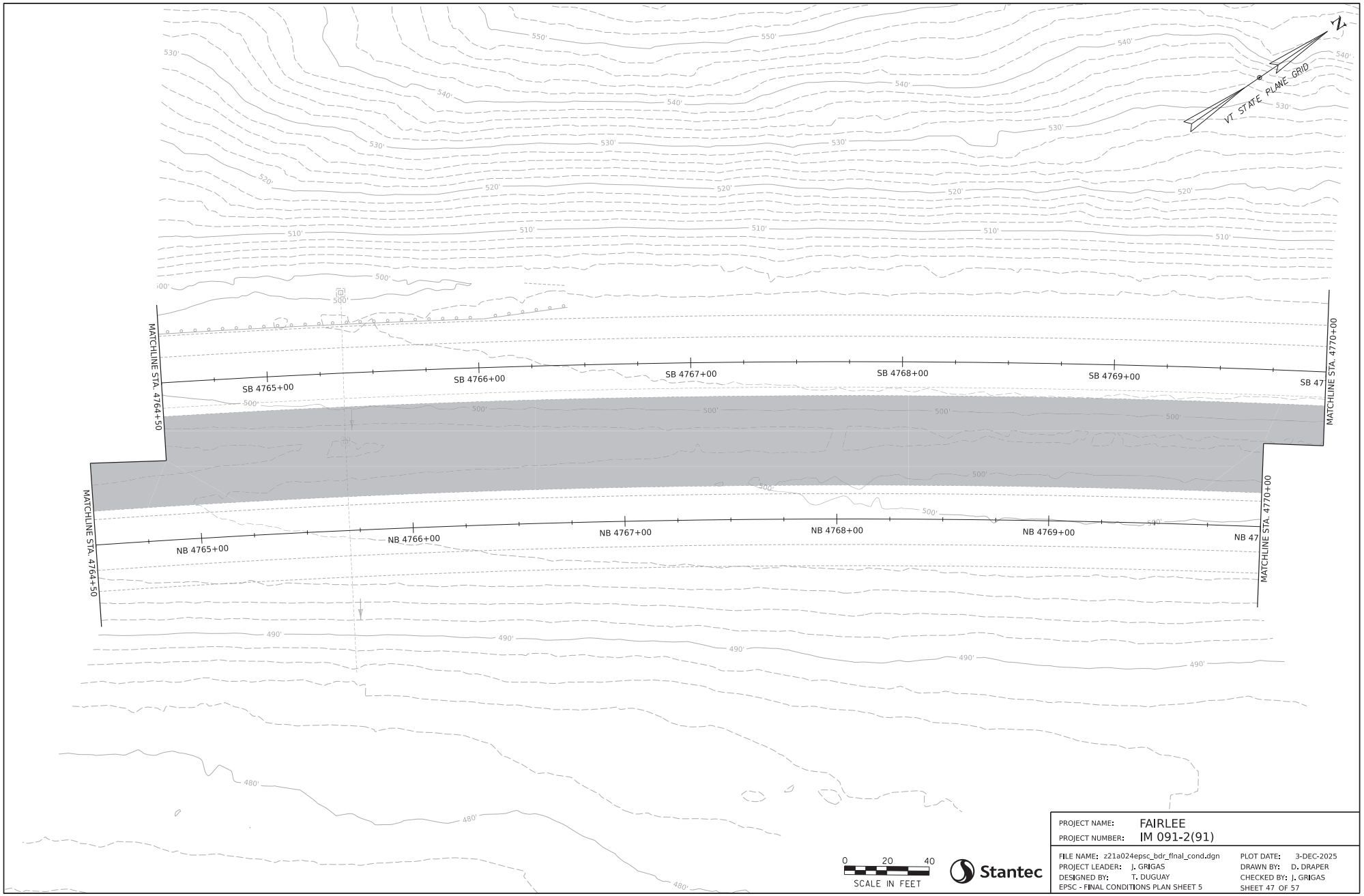


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 3	SHEET 45 OF 57



Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 4	SHEET 46 OF 57

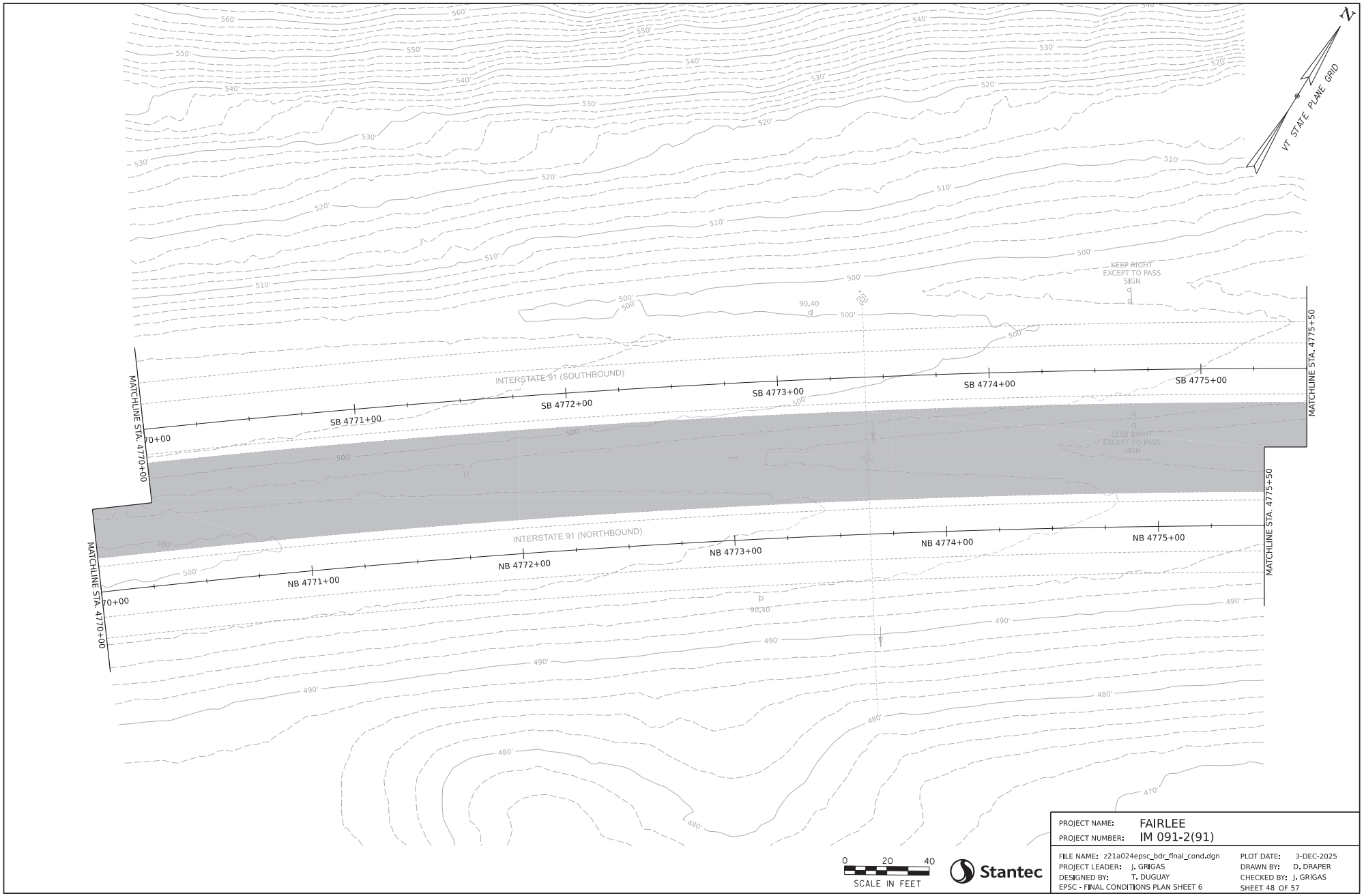


Stantec

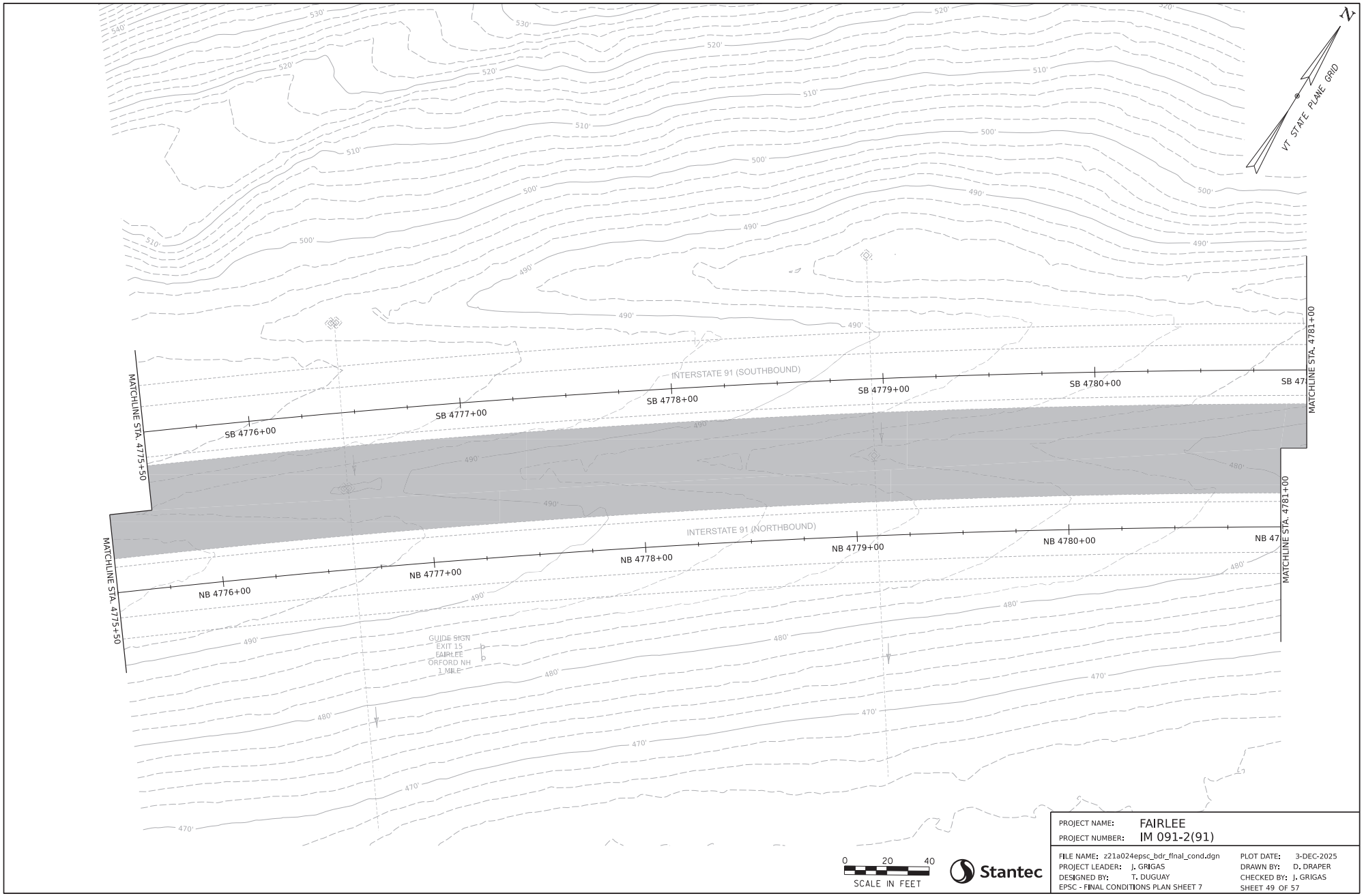
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024epsc_bdr_final_cond.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - FINAL CONDITIONS PLAN SHEET 5

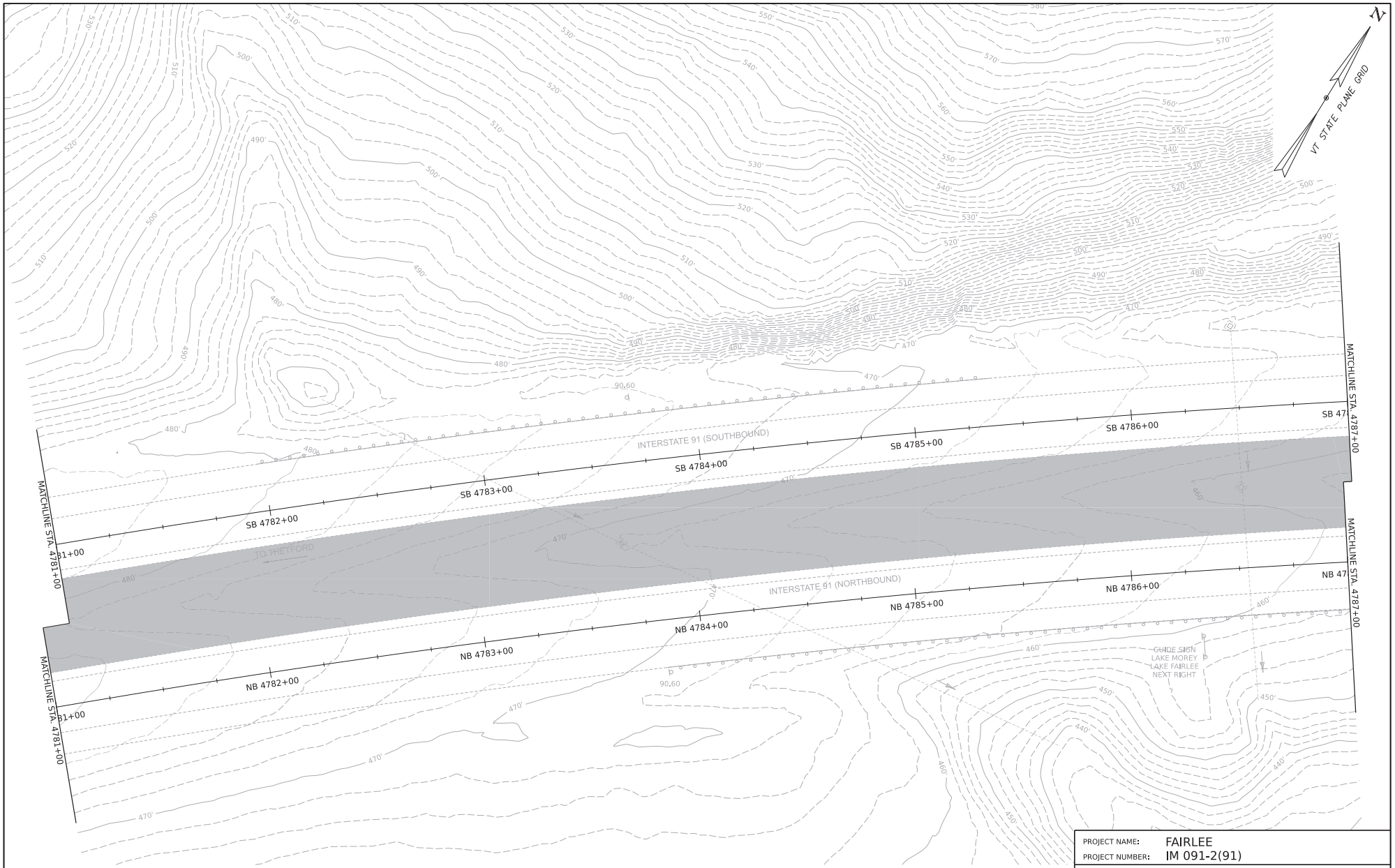
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 47 OF 57



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 6	SHEET 48 OF 57



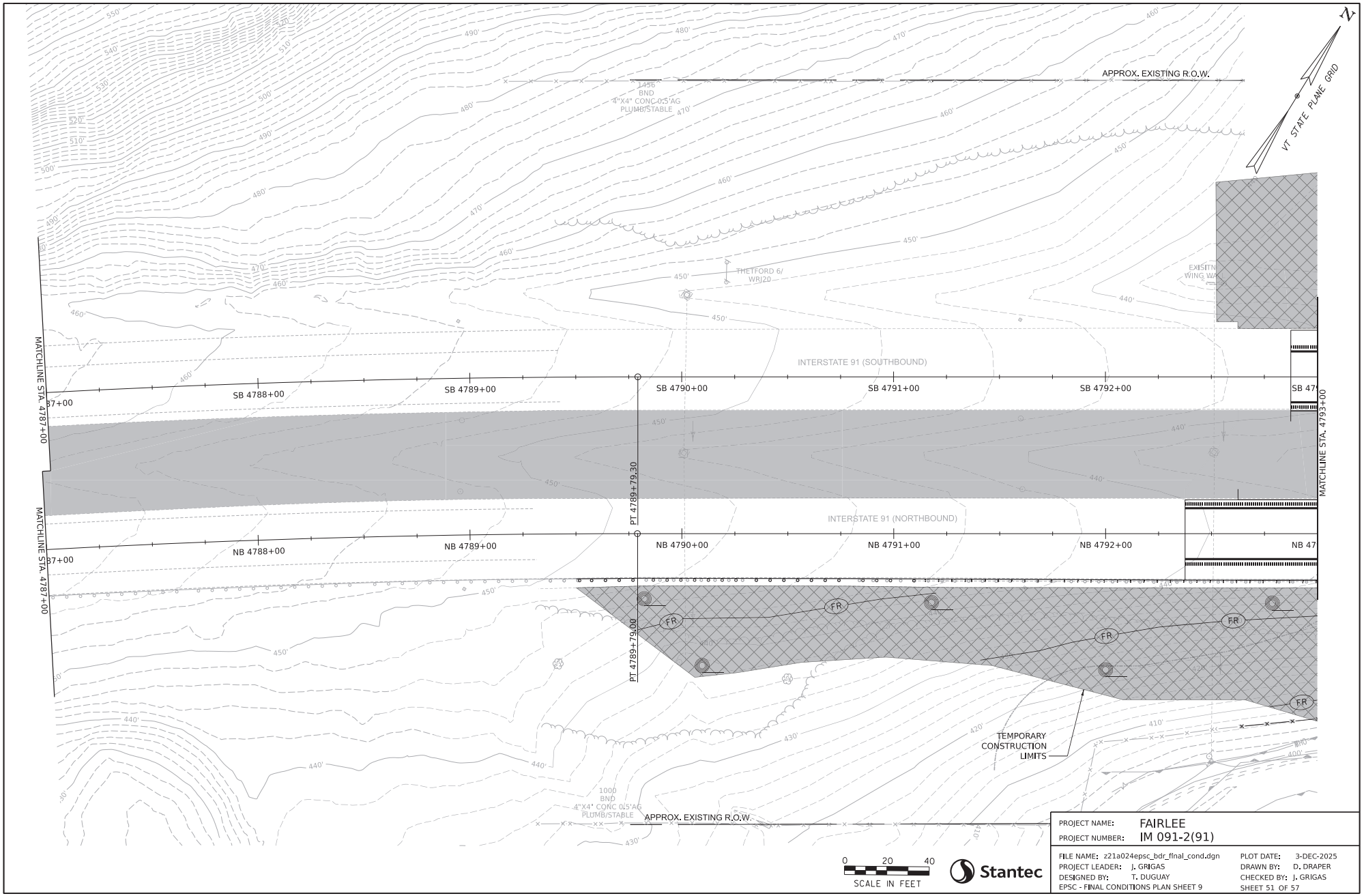
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 7	SHEET 49 OF 57



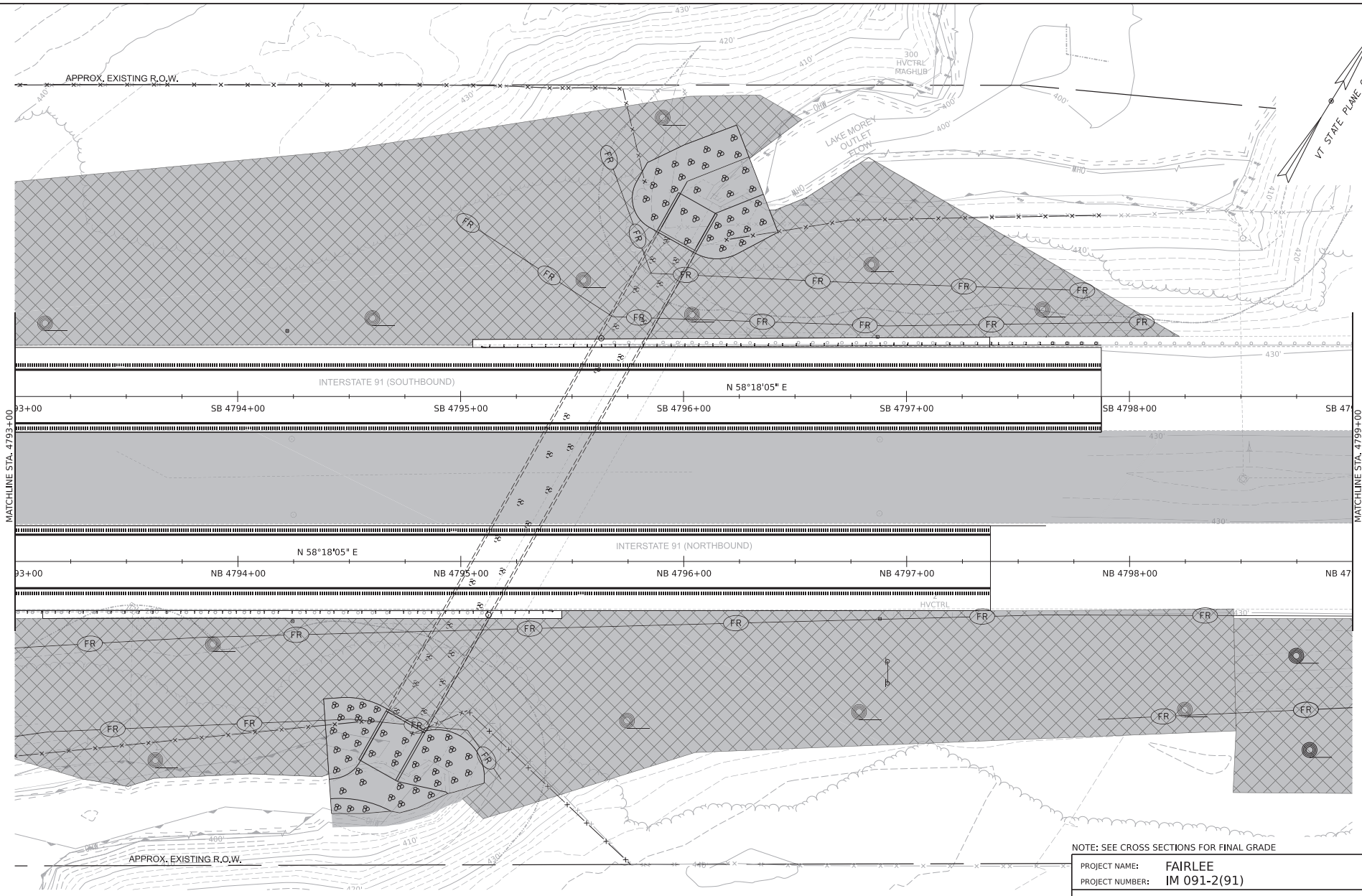
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024epsc_bdr_final_cond.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - FINAL CONDITIONS PLAN SHEET 8

PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 50 OF 57



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 9	SHEET 51 OF 57



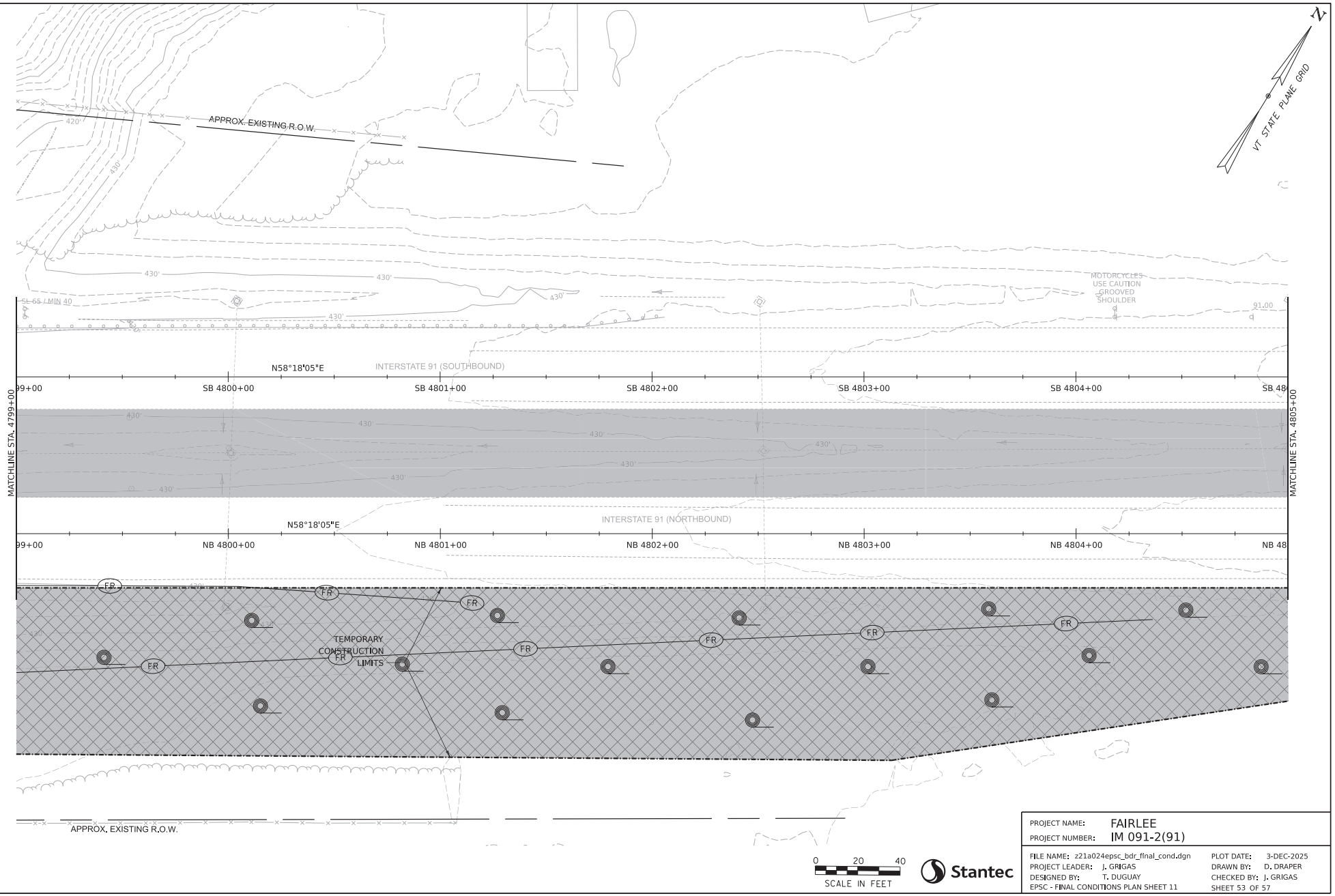
NOTE: SEE CROSS SECTIONS FOR FINAL GRADE

Stantec

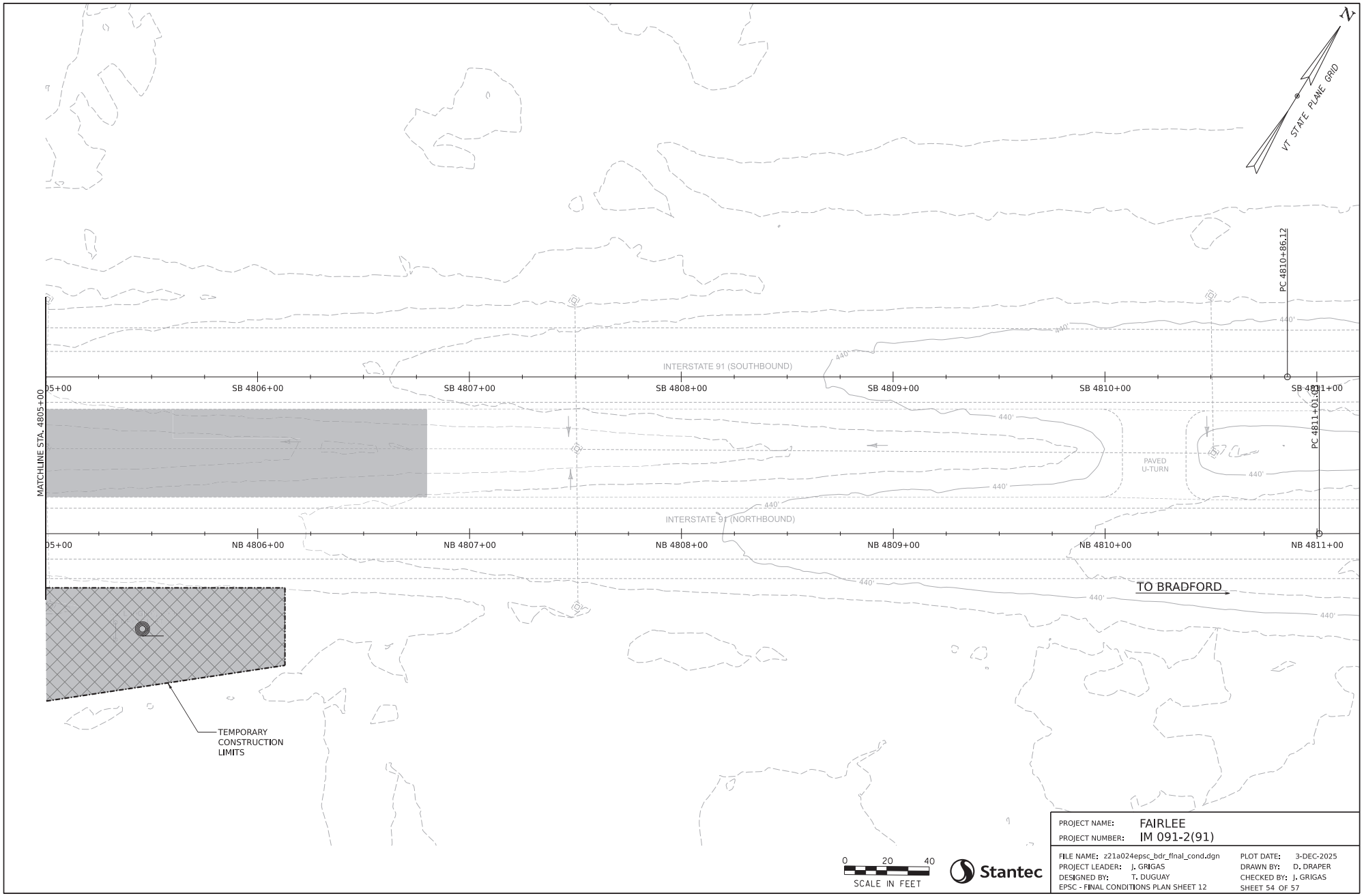
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PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024epsc_bdr_final_cond.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - FINAL CONDITIONS PLAN SHEET 10

PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 52 OF 57



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 11	SHEET 53 OF 57



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_final_cond.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - FINAL CONDITIONS PLAN SHEET 12	SHEET 54 OF 57

VAOT POLLINATOR DRY

% OF MIX	LATIN NAME	COMMON NAME	CULTIVAR/ECOTYPE
6	AGROSTIS PERENNANS	AUTUMN BENTGRASS,	NORTHEAST ECOTYPE
25.2	ANDROPOGON GERARDII	BIG BLUESTEM	NORTHEAST ECOTYPE
0.5	ASCLEPIAS SYRIACA	COMMON MILKWEED	NORTHEAST ECOTYPE
0.8	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	NORTHEAST ECOTYPE
25	ELYMUS VIRGINICUS	VIRGINIA WILDRYE	NORTHEAST ECOTYPE
0.6	MONARDA FISTULOSA	WILD BERGAMOT	NORTHEAST ECOTYPE
20	PANICUM CLANDESTINUM	DEERTONGUE	NORTHEAST ECOTYPE
1.5	RUDBECKIA HIRTA	BLACK EYED SUSAN	NORTHEAST ECOTYPE
20	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	NORTHEAST ECOTYPE
0.2	SOLIDAGO JUNCEA	EARLY GOLDENROD	NORTHEAST ECOTYPE
0.2	SOLIDAGO RUGOSA	WRINKLE LEAF GOLDENROD	NORTHEAST ECOTYPE
100%			

SEED RATE: 60 LBS/ACRE PURE LIVE SEED (PLS)
30 LBS/ACRE OF NURSE CROP
30 LBS/ACRE OF BULKING AGENT

*PREFERRED SEEDING PERIOD FOR POLLINATOR SEED MIX IS BEFORE MAY 1 (AFTER SNOWMELT) AND AFTER SEPTEMBER 15 (BEFORE SNOWPACK). IF SEEDING OCCURS DURING THE PREFERRED PERIOD, SEEDING RATE SHALL BE REDUCED BY 30%. NO ADJUSTMENT IS REQUIRED FOR NURSE CROPS OR BULKING AGENTS).

DESIGN GUIDANCE

1. THIS SEED MIX SHALL BE USED IN AREAS THAT WILL NATURALIZE, RECEIVING MOWING ONCE EVERY 3 YEARS OR LESS.
2. USE SEED MIX FOR AREAS THAT ARE SLOPED OR FLAT, WITH NORMAL TO DRY CONDITIONS, OR AS INDICATED IN THE PLANS.

CONSTRUCTION GUIDANCE

1. SEE VAOT POLLINATOR SEED CONSTRUCTION GUIDANCE DETAIL FOR MORE INFORMATION ON INSTALLATION AND BULKING AGENT.

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1600 TURF ESTABLISHMENT, SPECIALTY SEED)

REVISIONS
JANUARY 29, 2025 BKD

VAOT POLLINATOR WET

% OF MIX	LATIN NAME	COMMON NAME	CULTIVAR/ECOTYPE
2	AGROSTIS PERENNANS	AUTUMN BENTGRASS	NORTHEAST ECOTYPE
2	ASCLEPIAS INCARNATA	SWAMP MILKWEED	NORTHEAST ECOTYPE
0.6	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	NORTHEAST ECOTYPE
0.2	ASTER PUNICEUS	PURPLE STEMMED ASTER	NORTHEAST ECOTYPE
0.2	ASTER UMBELLATUS	WHITE FLAT-TOPPED ASTER	NORTHEAST ECOTYPE
1	BIDENS CERNUA	NODDING BUR MARIGOLD	NORTHEAST ECOTYPE
30	CAREX VULPINOIDEA	FOX SEDGE	NORTHEAST ECOTYPE
0.3	CHELONE GLABRA	TURTLEHEAD	NORTHEAST ECOTYPE
20	ELYMUS VIRGINICUS	VIRGINIA WILDRYE	NORTHEAST ECOTYPE
1	EUPATORIUM PERFOLIATUM	BONESET	NORTHEAST ECOTYPE
3.9	JUNCUS EFFUSUS	SOFT RUSH	NORTHEAST ECOTYPE
3.8	JUNCUS TENUIS	PATH RUSH	NORTHEAST ECOTYPE
30	PANICUM CLANDESTINUM	DEERTONGUE	NORTHEAST ECOTYPE
4	VERBENA HASTATA	BLUE VERVAIN	NORTHEAST ECOTYPE
1	ZIZIA AUREA	GOLDEN ALEXANDERS	NORTHEAST ECOTYPE
100%			

SEED RATE: 15 LBS/ACRE PURE LIVE SEED (PLS)
30 LBS/ACRE OF NURSE CROP.
60 LBS/ACRE OF BULKING AGENT

*PREFERRED SEEDING PERIOD FOR POLLINATOR SEED MIX IS BEFORE MAY 1 (AFTER SNOWMELT) AND AFTER SEPTEMBER 15 (BEFORE SNOWPACK). IF SEEDING OCCURS DURING THE PREFERRED PERIOD, SEEDING RATE SHALL BE REDUCED BY 30%. NO ADJUSTMENT IS REQUIRED FOR NURSE CROPS OR BULKING AGENTS).

DESIGN GUIDANCE

1. THIS SEED MIX SHALL BE USED IN AREAS THAT WILL NATURALIZE, RECEIVING MOWING ONCE EVERY 3 YEARS OR LESS.
2. USE SEED MIX FOR AREAS THAT EXPERIENCE OCCASIONAL INNUNDATION OF WATER (EX. DETENTION BASINS OR SWALES), OR AS INDICATED IN THE PLANS.

CONSTRUCTION GUIDANCE

1. SEE VAOT POLLINATOR SEED CONSTRUCTION GUIDANCE DETAIL FOR MORE INFORMATION ON INSTALLATION AND BULKING AGENT.

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1600 TURF ESTABLISHMENT, SPECIALTY SEED)

REVISIONS
JANUARY 29, 2025 BKD

VAOT POLLINATOR SEED CONSTRUCTION GUIDANCE

1. PREPARE SOIL FOR POLLINATOR SEED MIX APPLICATION SITES IN ACCORDANCE WITH VTRANS SUBSECTION 651.04 & 651.05 FOR TURF ESTABLISHMENT.
2. APPLY SOIL AMENDMENTS PER SOIL TEST RESULTS.
3. MIX POLLINATOR SEED, NURSE CROP SEEDS, AND BULKING AGENT PRIOR TO APPLICATION. ENSURE THAT THE MATERIALS ARE EVENLY DISTRIBUTED THROUGHOUT THE MIX.
   A. NURSE CROP: USE GRAIN OATS (AVENA SATIVA) AS A NURSE CROP IF PLANTING BETWEEN JANUARY 1 AND JULY 31 OR USE WINTER RYE (SECALE CEREALE) IF PLANTING BETWEEN AUGUST 1 AND DECEMBER 31.
   B. BULKING AGENT: ADD AN INERT CARRIER AND BULKING AGENT SUCH AS GRANULAR SODIUM BENTONITE CLAY, NON-CLUMPING & NON-SCENTED KITTY LITTER, OR APPROVED EQUIVALENT TO ALLOW FOR EVEN SEED DISTRIBUTION AND AS A VISUAL AID OF COVERAGE DURING THE SEED INSTALLATION. BULKING AGENTS SHALL BE MIXED WITH THE SEED MIX AND NURSE CROP AT THE RATES SPECIFIED ON THE POLLINATOR SEED MIX DETAILS. PAYMENT FOR BULKING AGENT AND NURSE CROP SHALL BE INCIDENTAL TO THE CORRESPONDING SEED PAY ITEMS.
4. APPLY POLLINATOR SEED MIXES, NURSE CROP SEEDS, AND BULKING AGENT CONCURRENTLY IN ACCORDANCE WITH THE RATES SHOWN ON THE POLLINATOR SEED MIX TABLES. DO NOT EXCEED THE RECOMMENDED NURSE CROP SEEDING RATES TO AVOID SMOTHERING THE POLLINATOR SEED MIX AND PREVENTING GERMINATION.
5. SPREAD SEED BY HAND OR USE BROADCAST SEEDING EQUIPMENT WITH AN INTERNAL AGITATOR AND AN ADJUSTABLE FLOW GATE TO CREATE A SLOW, STEADY SEED FLOW, ALLOWING FOR EVEN DISTRIBUTION OF THE SMALLER SEEDS.
6. USE A LANDSCAPE-TYPE ROLLER, CULTIPACKER, OR LEAF RAKE TO LIGHTLY PRESS SEED INTO SOIL BED AFTER BROADCAST SPREADING. THIS PROMOTES ADEQUATE SEED TO SOIL CONTACT. DO NOT TILL OR COVER SEED WITH SOIL.
7. MULCH WITH A LIGHT COVER OF WEED-FREE OAT STRAW AT A RATE OF 3,000 LB./ACRE.
8. IF HYDROSEEDING, A TWO-STEP PROCESS SHALL BE USED. FIRST PASS: APPLY SEED WITH 1/3 THE NORMAL RATE OF HYDRAULIC MULCH. SECOND PASS: APPLY REMAINDER OF HYDRAULIC MULCH. RATE OF HYDROSEED SHALL BE PER MANUFACTURERS RECOMMENDATIONS. NO BULKING AGENT SHALL BE USED.

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1600 TURF ESTABLISHMENT, SPECIALTY SEED)

REVISIONS
JUNE 21, 2023 BKD

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_detail.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
EPSC - DETAIL SHEET 1

PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 55 OF 57

SEED RATE: BROADCAST: 75 LBS/ACRE
HYDROSEED: PER MANUFACTURER'S RECOMMENDATIONS

APPLY AMENDMENTS PER SOIL TEST RESULTS

FERTILIZER (755.06):
IF NO SOIL TEST IS PERFORMED, A SLOW OR CONTROLLED RELEASE FERTILIZER SHALL BE APPLIED AT A RATIO OF 1:1:1 (N:P:K). NITROGEN AND PHOSPHORUS SHALL BE APPLIED AT NO MORE THAN 1 LB. PER 1,000 SQ.FT.

LIMESTONE (755.08 & 755.09):
IF NO SOIL TEST IS PERFORMED, APPLY LIMESTONE PER MANUFACTURER'S RECOMMENDATIONS.

COMPOST (755.05):
COMPOST MAY BE APPLIED PER SOIL TEST RESULTS.

CONSTRUCTION GUIDANCE

1. THESE SEED MIXES SHALL BE USED IN AREAS THAT WILL NATURALIZE, RECEIVING LIMITED ANNUAL MOWING THROUGH THE GROWING SEASON.
2. USE SEED MIX AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON-WETLAND) AREAS DISTURBED BY THE CONTRACTOR. IF THE PLANS DO NOT SPECIFY A SEED TYPE, NATURALIZED AREA TYPE I OR TYPE II SHALL BE USED.
3. SEED MIXES SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. HAY MULCH TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE. ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
5. FERTILIZER SHOULD NOT BE APPLIED WITHIN 2 WEEKS OF APPLYING LIMESTONE.
6. FOR BEST ESTABLISHMENT, REAPPLY FERTILIZER 2-3 WEEKS AFTER GERMINATION.

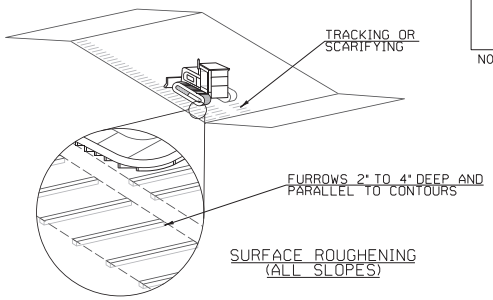
TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1500 TURF ESTABLISHMENT, GENERAL SEED)

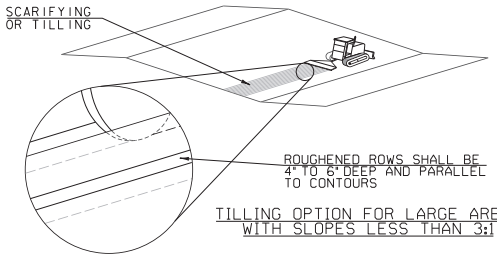
REVISIONS		
JANUARY 12, 2015	WHF
JUNE 15, 2023	BKD

SYMBOL

NOT TO SCALE



SURFACE ROUGHENING (ALL SLOPES)



TILLING OPTION FOR LARGE AREAS WITH SLOPES LESS THAN 3:1

NOTES:

1. GROOVES MAY BE MADE WITH ANY APPROPRIATE PIECE OF EQUIPMENT THAT CAN BE SAFELY OPERATED ON, OR ADJACENT TO, THE SLOPE. SURFACE ROUGHENING SHALL BE ACCOMPLISHED IN A MANNER THAT LIMITS SOIL COMPACTION AND PROMOTES TURF ESTABLISHMENT.
2. FOR AREAS THAT WILL BE MOWED, SURFACE ROUGHENING SHOULD CONSIST OF GROOVES CREATED BY NORMAL TILLING, DISKING, HARROWING, OR USE OF A CULTIPACKER SEEDER. SURFACE ROUGHENING SHALL NOT CREATE A SURFACE THAT CAN NOT BE MOWED.

ADAPTED FROM DETAILS DEVELOPED BY:
VERMONT DEPARTMENT OF CONSERVATION

MILE HIGH FLOOD DISTRICT STORMWATER BEST MANAGEMENT PRACTICES

SURFACE ROUGHENING

NOTES:
REFER TO LATEST EDITION OF "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

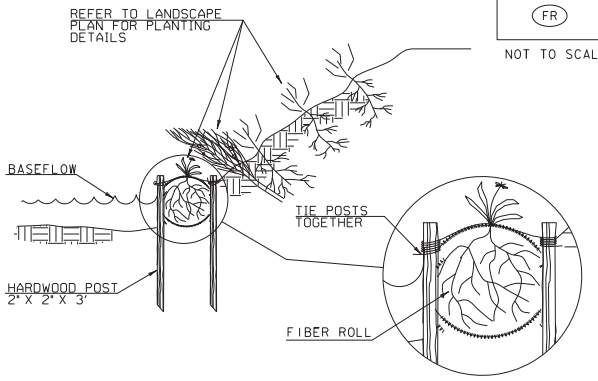
THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

REVISIONS		
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
NOVEMBER 25, 2024	CMMJ

SYMBOL

FR

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. EXCAVATE A 2" TO 3" TRENCH SLIGHTLY BELOW BASEFLOW. BASEFLOW ELEVATION SHALL BE PROVIDED ON THE PLANS.
2. PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2"X2" POSTS PLACED ON BOTH SIDES OF THE ROLL AND SPACED LATERALLY ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IF NECESSARY.
3. NOTCH THE POSTS AND TIE TOGETHER, ACROSS THE ROLL, WITH WIRE OR ROPE. ALL NON-BIODEGRADABLE COMPONENTS SHALL BE REMOVED ONCE FINAL VEGETATION IS ESTABLISHED.
4. PLACE SOIL EXCAVATED FROM THE TRENCH UP SLOPE OF THE ROLL AND HAND TAMP. PLANT SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED IN THE IN THE LANDSCAPE PLAN. IF SPECIFIED, VEGETATION SHALL BE PLACED IMMEDIATELY ADJACENT TO, OR DIRECTLY IN, THE ROLL TO PROMOTE ROOT GROWTH INTO THE FIBER.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC, ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FIBER ROLL

NOTES:
REFER TO LATEST EDITION OF "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 651, 653, AND 656.

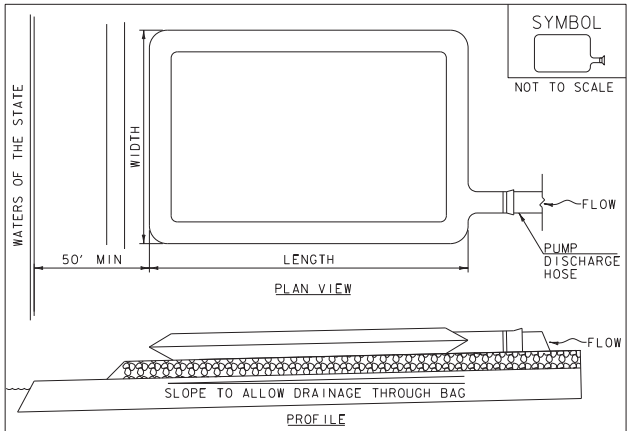
REVISIONS		
MARCH 21, 2008	WHF
JANUARY 13, 2009	WHF
NOVEMBER 25, 2024	CMMJ

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024epsc_detail.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
EPSC - DETAIL SHEET 2

PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS



CONSTRUCTION SPECIFICATIONS

1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAY BALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

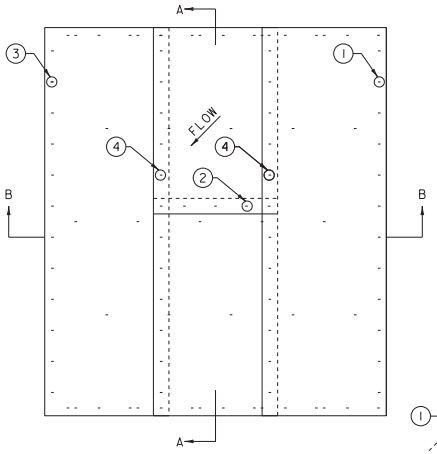
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2020- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.4500).

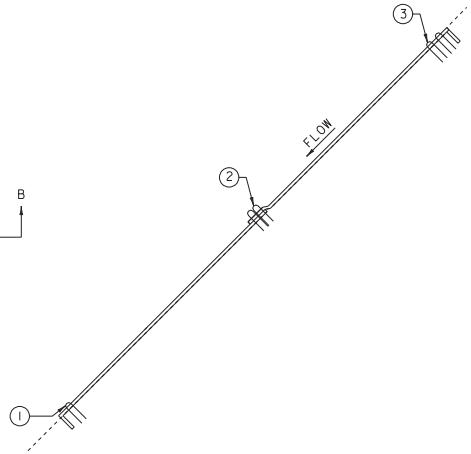
REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF
July 26, 2024	CMMJ

Stantec

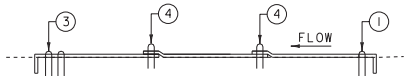
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_detail.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
EPSC - DETAIL SHEET 2	SHEET 57 OF 57



PLAN



SECTION A-A

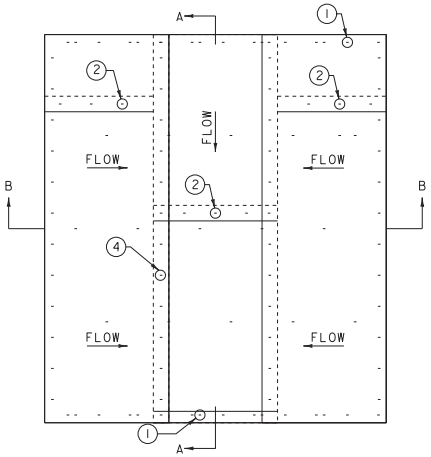


SECTION B-B

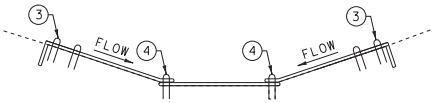
ON SLOPE

NOTE:

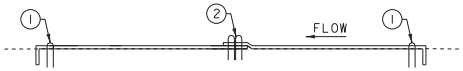
1. APPLY TO SLOPES GREATER THAN 1V:3H OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.



PLAN



SECTION B-B

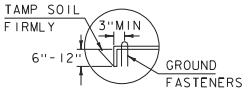


SECTION A-A

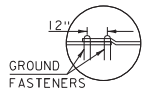
IN DITCH

NOTE:

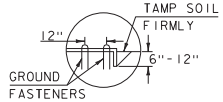
1. PARABOLIC DITCHES MAY REQUIRE ADDITIONAL FASTENERS TO ENSURE SUITABLE CONTACT WITH SOIL.



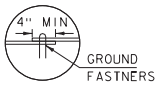
(1) TERMINAL FOLD



(2) JUNCTION SLOT



(3) ANCHOR SLOT



(4) LAP JOINT

GROUND FASTNER DETAILS

GENERAL NOTES:

1. FASTENERS ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART.
2. SHOWN SPACING IS FOR GENERAL GUIDANCE. MANUFACTURER'S SPECIFICATIONS SHOULD BE FOLLOWED TO ENSURE PROPER INSTALLATION.
3. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. ROLLED EROSION CONTROL PRODUCT SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
4. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE SECURED AT APPROXIMATELY 12" INTERVALS.
5. REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

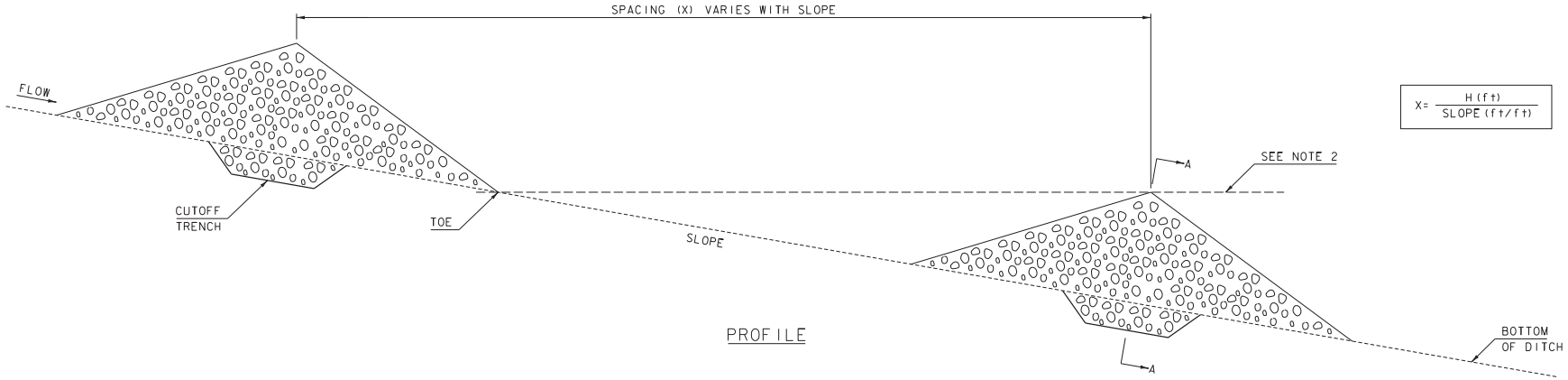
REV.	DATE	DESCRIPTION
0	APR. 7, 2020	ORIGINAL APPROVAL

OTHER STANDARDS REQUIRED: NONE

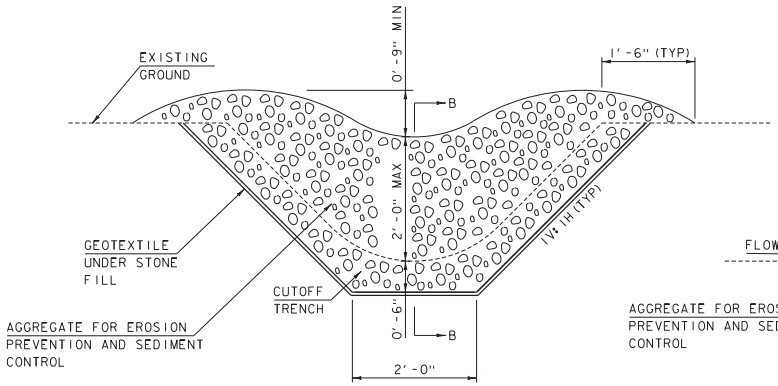
ROLLED EROSION CONTROL PRODUCT , TYPE I

VTrans Working to Get You There VERMONT AGENCY OF TRANSPORTATION

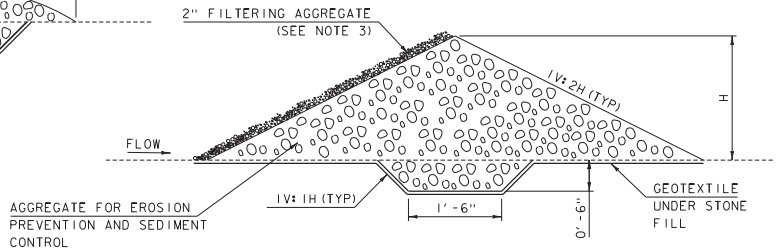
STANDARD
E-10



PROFILE



SECTION A-A



SECTION B-B

GENERAL NOTES:

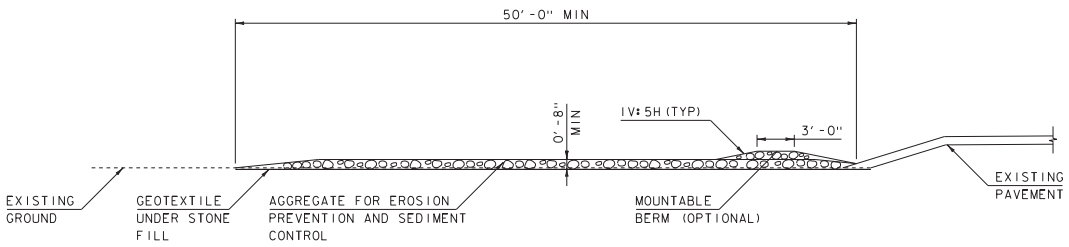
1. GEOTEXTILE UNDER STONE FILL SHALL BE USED TO SEPARATE AGGREGATE FOR EROSION PREVENTION AND SEDIMENT CONTROL FROM THE EXISTING GROUND.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. FILTERING AGGREGATE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. FILTERING AGGREGATE SHALL MEET THE REQUIREMENTS OF SUBSECTION 704.02 AND TABLE 704.02C.
5. EXTEND THE STONE A MINIMUM OF 1'-6" BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
6. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
7. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
8. REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2019-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REV.	DATE	DESCRIPTION
0	APR. 7, 2020	ORIGINAL APPROVAL
1	SEP. 11, 2023	MISC. REVISIONS
2	JUNE 25, 2024	MISC. SPEC UPDATES
OTHER STANDARDS REQUIRED: NONE		

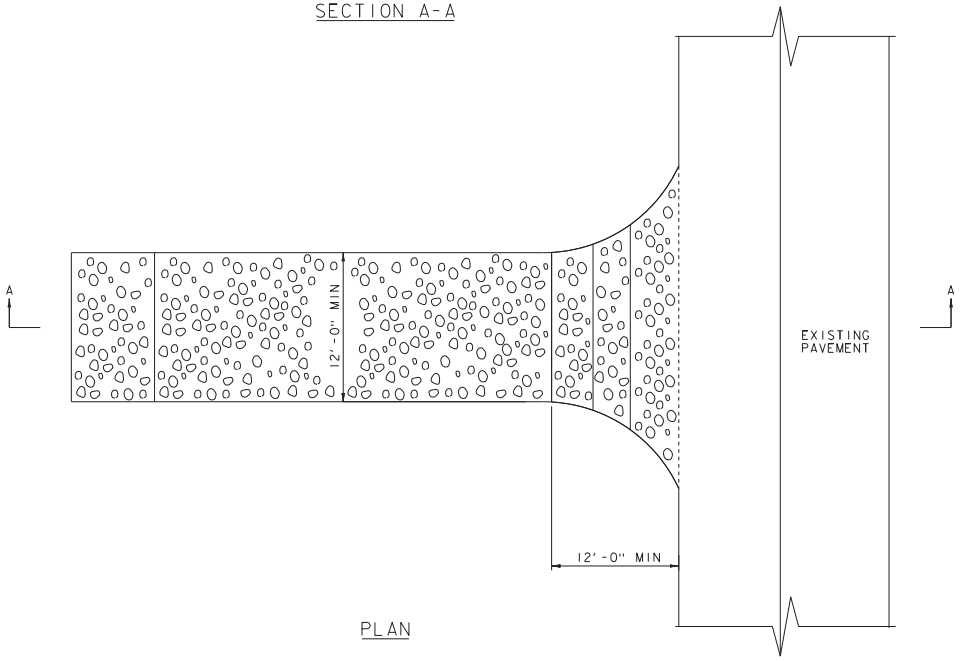
CHECK DAM, TYPE I

VTrans Working to Get You There VERMONT AGENCY OF TRANSPORTATION

STANDARD
E-11



SECTION A-A



PLAN

GENERAL NOTES:

1. LENGTH- NOT LESS THAN 50' UNLESS APPROVED BY THE ENGINEER.
2. GEOTEXTILE UNDER STONE FILL SHALL BE USED TO SEPARATE AGGREGATE FOR EROSION PREVENTION AND SEDIMENT CONTROL FROM THE EXISTING GROUND.
3. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 1V:5H SLOPES WILL BE PERMITTED.
4. REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

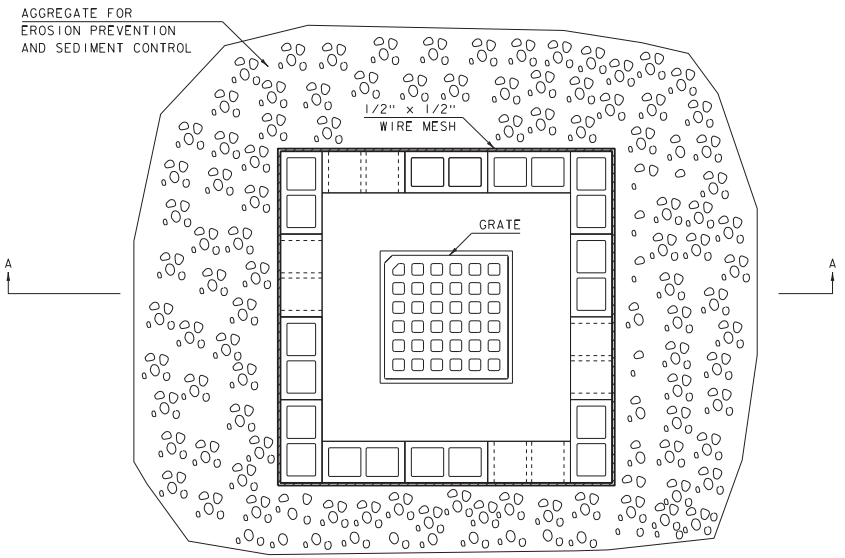
REV.	DATE	DESCRIPTION
0	APR. 7, 2020	ORIGINAL APPROVAL

OTHER STANDARDS REQUIRED: NONE

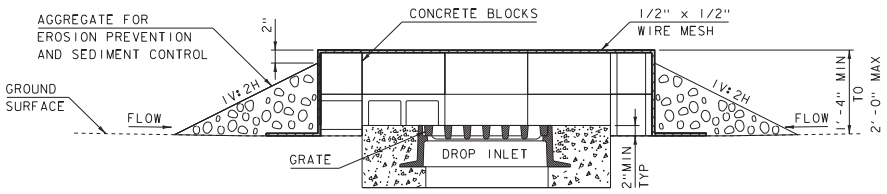
STABILIZED CONSTRUCTION ENTRANCE

VTrans Working to Get You There! VERMONT AGENCY OF TRANSPORTATION

STANDARD
E-12



PLAN

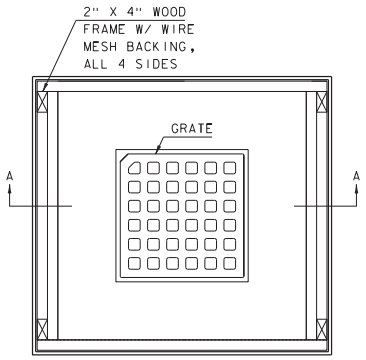


SECTION A-A

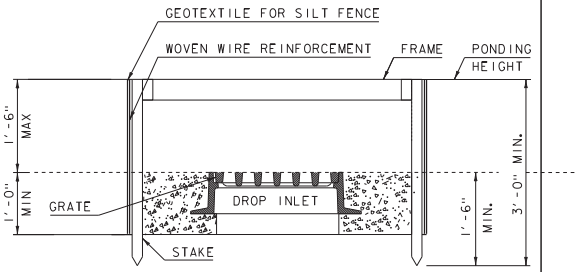
BLOCK AND STONE
INLET PROTECTION DEVICE

NOTES:

1. ONE BLOCK ON EACH SIDE SHALL BE PLACED WITH HOLES ORIENTED HORIZONTALLY TO ALLOW WATER TO FLOW INTO THE INLET.
2. 1/2" X 1/2" WIRE MESH SHALL BE PLACED OVER THE BLOCK WITH THE HORIZONTALLY ORIENTED HOLES. WIRE MESH SHALL BE OF A GAGE TO WITHSTAND APPLICATION OF THE FILTERING AGGREGATE.



PLAN



SECTION A-A

STAKE AND FABRIC
INLET PROTECTION DEVICE

NOTES:

1. STAKES AND FRAME SHALL BE STANDARD 2" X 4" LUMBER.
2. STAKES SHALL BE SPACED AT A MAXIMUM OF FOUR FEET APART. FOR SIDES GREATER THAN FOUR FEET IN LENGTH, STAKES SHALL BE EQUALLY SPACED.
3. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
4. FABRIC SHALL BE ONE CONTINUOUS PIECE AND SHALL BE OVERLAPPED TO THE NEXT STAKE.
5. FABRIC SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.

GENERAL NOTE:

1. REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

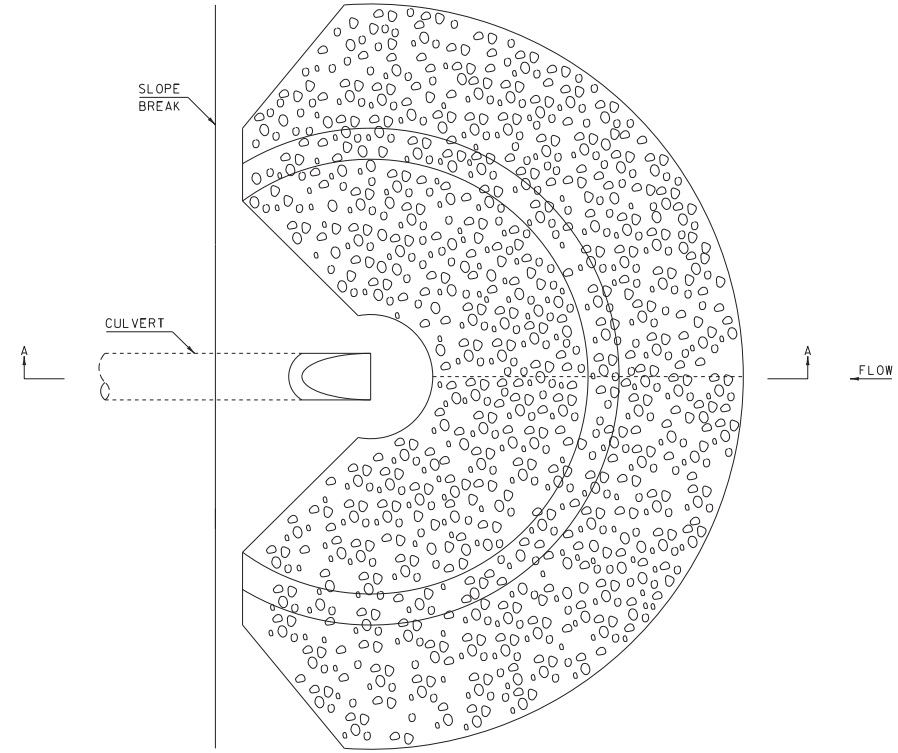
REV.	DATE	DESCRIPTION
0	APR. 7, 2020	ORIGINAL APPROVAL

OTHER STANDARDS REQUIRED: NONE

INLET PROTECTION DEVICE, TYPE I

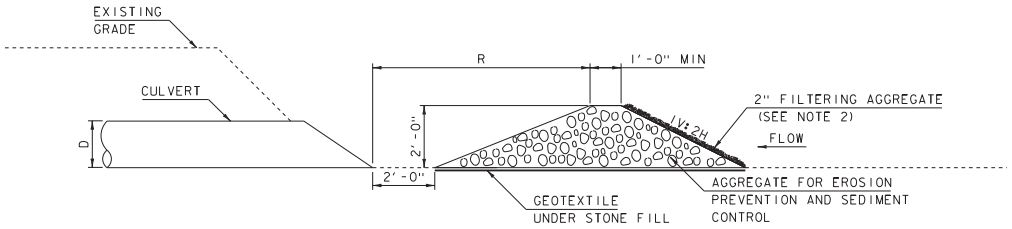
VTrans Working to Get You There
VERMONT AGENCY OF TRANSPORTATION

STANDARD
E-13



PLAN

PIPE DIA. "D"	"R"
≤24"	7'
30"	8'



SECTION A-A

GENERAL NOTES:

1. GEOTEXTILE UNDER STONE FILL SHALL BE USED TO SEPARATE AGGREGATE FOR EROSION PREVENTION AND SEDIMENT CONTROL FROM THE EXISTING GROUND.
2. FILTERING AGGREGATE MAY BE ADDED AS NECESSARY.
3. FILTERING AGGREGATE SHALL MEET THE REQUIREMENTS OF SUBSECTION 704.02 AND TABLE 704.02B.
3. INDIVIDUAL CONSIDERATION SHALL BE GIVEN FOR PIPE DIAMETERS GREATER THAN 30".

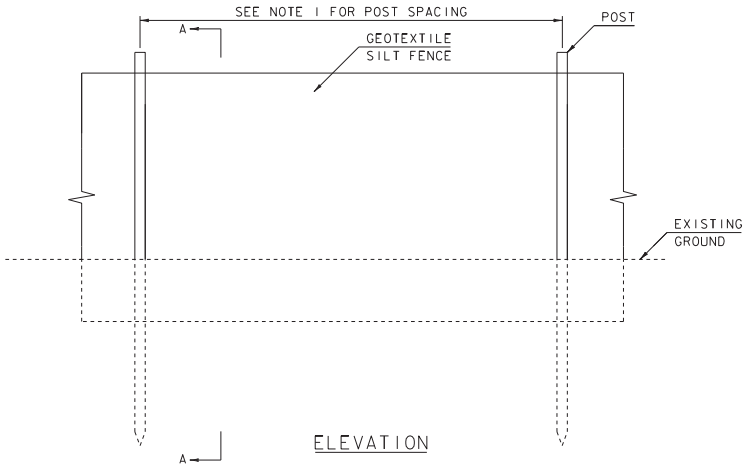
REV.	DATE	DESCRIPTION
0	APR. 7, 2020	ORIGINAL APPROVAL

OTHER STANDARDS REQUIRED: NONE

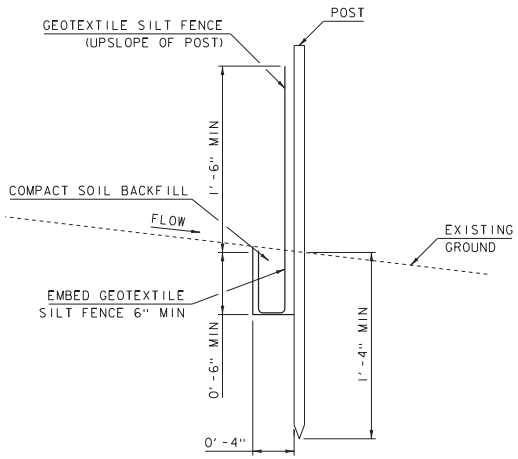
INLET PROTECTION DEVICE, TYPE III

VTrans Working to Get You There
VERMONT AGENCY OF TRANSPORTATION

STANDARD
E-14



ELEVATION

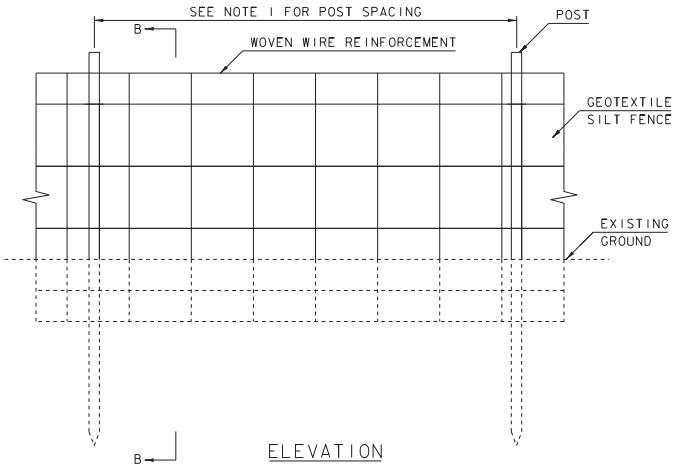


SECTION A-A

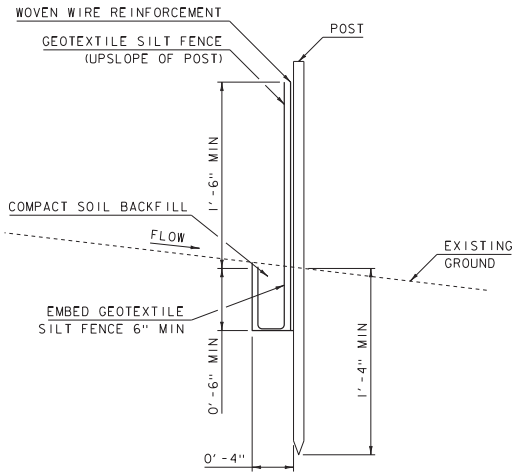
SILT FENCE, TYPE I

NOTE:

1. POST SPACING FOR SILT FENCE SHALL NOT EXCEED 4' WHEN ELONGATION IS GREATER THAN 50% AND SHALL NOT EXCEED 6' WHEN ELONGATION IS LESS THAN 50%.



ELEVATION

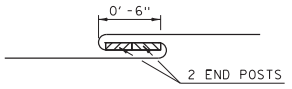


SECTION B-B

SILT FENCE, TYPE II

NOTES:

1. POST SPACING FOR SILT FENCE, WOVEN WIRE REINFORCED SHALL NOT EXCEED 10'.
2. WOVEN WIRE REINFORCEMENT IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. GEOTEXTILE FOR SILT FENCE IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.



GEOTEXTILE FOR SILT FENCE
OVER LAP DETAIL

GENERAL NOTES:

1. REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
2. TAMP SOIL BACKFILL FOR SECTION OF EMBEDDED GEOTEXTILE.

REV.	DATE	DESCRIPTION
0	APR. 7, 2020	ORIGINAL APPROVAL

OTHER STANDARDS REQUIRED: NONE

SILT FENCE

VTrans Working to Get You There
VERMONT AGENCY OF TRANSPORTATION

STANDARD
E-15

VERMONT

Vermont Department of Environmental Conservation *Agency of Natural Resources*
Watershed Management Division
1 National Life Drive, Main 2
Montpelier VT 05620-3522 [phone] 802-828-1535
www.watershedmanagement.vt.gov [fax] 802-828-1544

Authorization under the Flood Hazard Area & River Corridor General Permit
Reporting Activities Requiring an Application
10 V.S.A. § 754

PERMIT #: FP-8-0041-GP
Date: 12/19/2025

Applicant: Vermont Agency of Transportation
Contact: Sophia Seman
Phone: 802-498-8796
Email: Sophia.a.seman@vermont.gov
Project Location: Bridges 55-2 and 55-3 on I-91 (mile markers 90.79-90.85)
Flooding Source: Tributary of the Connecticut River
Project Description:
Project includes removal of two existing 7' corrugated metal pipe culverts (bridges 55-2 and 55-3) along Interstate 91 and replace them with a 258' long, 18' width x 9.5' height reinforced concrete box culvert between mile markers 90.79 – 90.85. The reinforced concrete box culvert requires the placement of precast concrete segments, wingwalls, E-stone fill, and channel work extending from the inlet and outlet to tie into the natural streambed/contours. The project includes constructing temporary interstate crossovers, cutting equipment access/working areas, and stockpiling fill above the BFE on the interstate/median for two construction seasons, one season for the SB lane and one season for the NB lane closures. The project will be constructed as shown on the "Preliminary Project Plans dated 5-27-2025", and evaluated on the VAOT Final Hydraulic Report for the project dated 3/4/2024.

Based upon the Findings contained in this authorization, the Secretary has determined that the proposed project complies with the requirements of the 2021 Flood Hazard Area & River Corridor General Permit and the Flood Hazard Area & River Corridor Rule (Environmental Protection Rule, Chapter 29) and is hereby approved subject to the conditions of the 2021 Flood Hazard Area & River Corridor General Permit and this authorization.

I. Findings

The Secretary of Natural Resources has determined that:

(a) The project is located within the special flood hazard area (Zone AE). The project is also located within the river corridor.

(b) This project is exempt from municipal regulation because it is a State-owned and operated institution and facility.

(c) This project authorization includes construction activities necessary to replace two existing 7' corrugated metal pipe culverts with a new 18' by 9.5' reinforced concrete box culvert including wingwalls and e-stone fill tie-in to the natural streambed at the inlet & outlet. Authorization includes construction of temporary interstate lane crossovers, seasonal stockpiling of fill above the BFE in the median, and related earthwork for access. All disturbed areas must be returned to pre-construction elevation contours and/or restored as shown on the preliminary plan set dated 05/27/2025 by Stantec Consulting Services Inc. Construction activities are authorized over 2 seasons due to the construction phasing and traffic maintenance associated with a major highway.

(d) Based on the information provided by the applicant, the project is an eligible activity and will meet the standards in the above-referenced General Permit, if built as proposed.

II. General Conditions

(a) **Compliance with General Permit and this Authorization.** The permittee shall comply with this authorization and all the terms and conditions of the 2021 Flood Hazard Area & River Corridor General Permit.

(b) **Submission of As-Built Information.** The permittee shall submit as-built documentation prepared by a licensed land surveyor or professional engineer to the Floodplain Manager within 180 days of when the project is complete.

(c) **Access to property.** By conducting any activity under this authorization, the permittee agrees to allow Agency representatives access to the property covered by this authorization, at reasonable times and upon presentation of credentials, for the purpose of ascertaining compliance with the Vermont Flood Hazard Area & River Corridor Rule and the General Permit. This authorization does not grant the permittee the right to enter onto any property not owned by the permittee.

(d) **Authorization for Substantial Changes.** All activity shall be completed and maintained in accordance with the terms and conditions of the General Permit and this authorization. The permittee shall notify the Secretary of any planned changes to the authorized activity. The Secretary may require the permittee to submit additional information on any proposed changes. The Secretary will notify the permittee if, based on the proposed changes to the authorized activity, a revised application for an individual permit must be submitted.

(e) **Remedial measures.** The Secretary maintains continuing jurisdiction over the activity authorized under this authorization and may at any time order remedial measures if it appears the activity is not in compliance with the General Permit or this authorization.

(f) **Compliance with other regulations.** This authorization does not relieve the permittee of the responsibility to comply with any other applicable federal, state, and local laws, regulations, and permits.

(g) **Legal responsibilities for damages.** The Secretary, by issuing this authorization, accepts no legal responsibility for any damage direct or indirect of whatever nature and by whomever suffered arising out of the approved activity.

(h) **Revocation.** The Secretary may, after notice and opportunity for a hearing, revoke or suspend, in whole or in part, this authorization for cause, including:

(1)Violation of the terms or conditions of the General Permit or this authorization;

(2)Obtaining authorization by misrepresentation or failure to fully disclose all relevant facts;

(3) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized activity.

(i) **Duty to comply; enforcement.** The permittee shall comply with all terms and conditions of the General Permit and this authorization. Any noncompliance constitutes a violation of the Flood Hazard Area & River Corridor Rule and may be cause for an enforcement action and/or revocation and reissuance, modification, or termination of this authorization.

(j) **Transfer of Authorization.** This authorization may be transferred provided that a notice of transfer is submitted to the Secretary no later than five days prior to the transfer and the notice includes the following:
   (1) The name, mailing address, and contact information of the present permittee;
   (2) The name, mailing address, and contact information of the prospective permittee;
   (3) The proposed date of transfer; and
   (4) A statement signed by the prospective permittee, stating that the prospective permittee has read and is familiar with the terms and conditions of the permit and the authorization and agrees to comply with the permit and authorization.

(k) **Limitations.** This authorization conveys no vested rights or exclusive privileges. This authorization conveys no title to land nor authorizes any injury to public or private property.

(l) **Appeals.**
   (1) **Renewable Energy Project.** If this decision relates to a renewable energy plant for which a certificate of public good is required under 30 V.S.A. § 248, any appeal of this decision must be filed with the Vermont Public Utility Commission pursuant to 10 V.S.A. § 8506. This section does not apply to a facility that is subject to 10 V.S.A. § 1004 (dams before the Federal Energy Regulatory Commission), 10 V.S.A. § 1006 (certification of hydroelectric projects), or 10 V.S.A. Chapter 43 (dams). Any appeal under this section must be filed with the Clerk of the Public Utility Commission within 30 days of the date of this decision; the appellant must file with the Clerk an original and six copies of its appeal. The appellant shall provide notice of the filing of an appeal in accordance with 10 V.S.A. § 8504(c)(2), and shall also serve a copy of the Notice of Appeal on the Vermont Department of Public Service. For further information, see the Rules and General Orders of the Public Utility Commission, available online at www.puc.vermont.gov. The address for the Public Utility Commission is 112 State Street, Montpelier, Vermont, 05620-2701 (Tel. # 802-828-2358).
   (2) **All Other Projects.** Pursuant to 10 V.S.A. Chapter 220, any appeal of this decision must be filed with the clerk of the Environmental Division of the Superior Court within 30 days of the date of the decision. The Notice of Appeal must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Division; and must be signed by the appellant or the appellant's attorney. In addition, the appeal must give the address or location and description of the property, project, or facility with which the appeal is concerned and the name of the applicant or any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available online at www.vermontjudiciary.org. The address for the Environmental Division is: 32 Cherry St.; 2nd Floor, Suite 303; Burlington, VT 05401. Telephone # 802-951-1740.

If the development is constructed as described and according to the above conditions, there is no reason to expect an adverse impact on either the river corridor or flood hazard area.

This permit shall be effective on the date of signing and shall be valid for a period of three years.

Julia S. Moore, Secretary
Vermont Agency of Natural Resources



By _____ dated 12/19/2025

Kyle Medash, Western Floodplain Manager
Rivers Program
Watershed Management Division

VERMONT AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

INDIVIDUAL WETLAND PERMIT

In the matter of:

VTrans c/o Jessie Johnson
219 Main Street, Barre, VT

Application for the replacement of two I91 bridges with proposed impacts to 1,600 square feet of wetland and 18,140 square feet of buffer zone.

I91 Bridges 55-2 & 55-3, Fairlee

File #: 2024-1259

Date of Decision: March 2, 2026
Permit Decision: Approved
Permit Expiration: March 2, 2031

Any activity in a Class I or Class II wetland or its associated buffer zone is prohibited unless it is an allowed use under the Vermont Wetland Rules (VWR) or unless it receives a permit allowing such activity. 10 V.S.A. § 913. Applicants for an individual permit for a proposed activity in any Class I or Class II wetland or its buffer zone must demonstrate that the proposed activity complies with the VWR and will have no undue adverse effects on protected functions and values. VWR § 9.5(a).

The Vermont Agency of Natural Resources (Agency) received an application dated December 18, 2025 from VTrans (permittee) seeking an individual Vermont Wetland Permit for a project involving activities in a wetland and associated buffer zone located in Fairlee, Vermont. The Agency gave notice of the application in accordance with the VWR. The Agency considered all comments received during the public comment period during review of the application and issuance of this permit.

DECISION AND PERMIT CONDITIONS

1. Based on the Findings contained in this permit below, the Secretary has determined that the proposed project will comply with 10 V.S.A. chapter 37 and the VWR and will have no undue adverse effect on protected functions and values of the wetland. The permittee has demonstrated that the project will have no undue adverse effects on the protected functions and values of the significant wetland and associated buffer zone, provided the project is conducted in accordance with the following conditions:

    A. All activities in the wetland and buffer zone shall be completed, operated, and maintained as set forth in the permit application #2024-1259 and the supporting materials submitted with the permit application including site plans

titled “Fairlee IM 091-2(91) – Wetland Impacts Sheet (22 of 62)” by Stantec, dated 7/15/2025 and stamped by the Wetlands Program. No material or substantial changes shall be made to the project without the prior written approval of the Vermont Wetlands Program. Project changes, including transfer of property ownership prior to commencement of a project, may require a permit amendment and additional public notice.

B. Prior to commencement of the approved project, the permittee shall notify the Vermont Wetlands Program electronically in writing of the date the project will commence. Unless otherwise waived, the notification shall be submitted through ANROnline.

C. No additional activities are allowed in the wetland and associated buffer zone without the approval of the Secretary unless such activities are allowed uses under VWR § 6. No draining, dredging, filling, grading, or alterations of the water flow is allowed. No cutting, clearing, or removal of vegetation within the wetland and buffer zone is allowed with the exception of the proposed project area as approved by this permit.

D. This permit expires five years from the date of issuance. If the permittee has not completed all construction activities covered by this permit before the expiration date and wishes to continue construction, the permittee must request a permit extension or apply for a new permit. Any request for an extension must be received by the Agency at least 30 days prior to the end of the five-year period in order to prevent the expiration of the permit. A request for extension may be considered a minor modification at the discretion of the Secretary. Pursuant to VWR § 9.1, projects may not be extended beyond ten years of the issuance date.

E. Wetland boundary delineations are valid for five years. The delineations will need to be re-evaluated by a qualified wetland consultant if the project is not constructed during the five-year period and a request for an extension is submitted.

F. Within 30 days of completion of the work approved by this permit, the permittee shall supply the Vermont Wetlands Program with a letter certifying that the project was constructed in compliance with the conditions of this permit. Unless otherwise waived, the letter shall be submitted through ANROnline.

G. A continuous line of orange snow fence or flagging tape shall be installed along the limits of disturbance prior to the start of construction.

H. If a stormwater construction permit is obtained for this project, the erosion prevention and control requirements of that permit shall be followed. At minimum, the permittee shall comply with the following: A continuous line of silt fence shall be properly installed by the permittee immediately upgradient of the snow fence or tape prior to any construction and shall be regularly maintained. Care shall be taken to ensure that silt fence is installed on the contour and not in areas of concentrated flow such as stream channels or

ditches. Sediment shall be cleaned out before and after any significant storm event or when sediment has reached less than half the height of the fence. Removed sediments shall be disposed of in a stable, upland area outside the 50-foot buffer zone at least 100 feet from waters of the state and stabilized immediately with seed and mulch at a minimum. All other disturbed soils shall be seeded and mulched within 48 hours of final grading. All sediment barriers and construction fencing shall be removed following the successful establishment of vegetation.

I. If a stream alteration permit is obtained for this project, the requirements of that permit shall be followed. If no stream alteration permit was required, the permittee shall comply with the following: The method of bridge replacement and access shall be that which presents the least disturbance of stream flow and prevents any discharge of sediment downstream. Stream flow at all times shall be diverted from the work area. The contractor's equipment shall be clean and well maintained, free of fuel, hydraulic, and gear oil leaks, especially if such equipment is to be used in or adjacent to the water. There shall be absolutely no discharge of uncured concrete to the stream flow. Pumping from excavation areas shall be discharged to an overland area or settling basin such that the effluent shall be essentially clarified before reentering the stream flow. All areas of stream bank disturbed during construction shall be suitably reshaped and stabilized with stone fill or a vegetative planting prior to completion of the project. Additionally, the extent of stream bank disturbance shall be strictly limited, and all existing vegetation maintained to the greatest degree practicable. Stream work shall be limited to the period June 1 to October 1. Culvert invert elevations shall be installed six inches below the stream bed level.

J. All contractors' equipment shall be cleaned so as to contain no observable soil or vegetation prior to work in wetlands and buffer zones to prevent the spread of invasive species. The permittee shall monitor the portion of the wetland in question annually during early July for five years following construction for the nuisance plant species purple loosestrife (*Lythrum salicaria*) and common reed (*Phragmites australis*). All nuisance plants found shall be pulled by hand and disposed of by burial or burning in a non-wetland location. If hand pulling is not feasible, a state approved invasive species control plan is required.

K. The permittee shall retain an environmental compliance monitor *to be on site during all site preparation and construction related activities taking place in the Class II wetland and buffer zone to assure compliance with the conditions of this permit*. An onsite preconstruction meeting shall be scheduled with the Agency Wetlands Program prior to project commencement.

L. A preconstruction meeting will be scheduled with the monitor and Agency Wetlands Program prior to project commencement. The permittee shall contact the District Wetlands Ecologist two weeks in advance of the proposed preconstruction meeting date. The monitor will immediately notify the Agency of any non-permitted disturbance to the wetland or buffer zone. A site

inspection with the Agency's District Wetlands Ecologist will be scheduled within 20 days of the completion of construction and installation. The notification of commencement and completion certification submittals do not constitute scheduling a meeting for the purposes of this condition.

2. The Secretary maintains continuing jurisdiction over this project and may at any time order that remedial measures be taken if it appears that undue adverse impacts to the protected functions and values of the wetland or buffer are occurring or will occur.

3. This permit does not relieve the permittee of the responsibility to comply with any other applicable federal, state, and local laws, regulations, and permits.

4. The permittee shall allow the Secretary or the Secretary's representatives, at reasonable times and upon presentation of credentials, to enter upon and inspect the permitted property for the purpose of ascertaining compliance with this permit, the VWR, and the Vermont Water Quality Standards, and to have access to and copy all records required to be prepared pursuant to this permit.

5. Pursuant to VWR section 8.5b(iii), the Vermont Significant Wetlands Inventory shall be revised based on the wetland delineation provided in the application.

6. The Agency accepts no legal responsibility for any damage direct or indirect of whatever nature and by whomever suffered arising out of the approved project. This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property, or any invasion of personal rights, or any infringement of federal, state, or local laws or regulations. This permit does not obviate the necessity of obtaining such federal, state, or local permits or approvals as may be required by law. Nothing in this permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under other laws.

7. Within 15 days of the date of the decision, the permittee, any person entitled to notice under VWR § 9.2, or any person who filed written comments regarding the permit application may request in writing reconsideration of the decision by the Secretary in accordance with VWR § 9.6.

8. Any person with an interest in this matter may appeal this decision pursuant to 10 V.S.A. § 917. Pursuant to 10 V.S.A. chapter 220, an aggrieved person shall not appeal this permit to the Environmental Division of the Vermont Superior Court unless the person submitted to the Secretary a written comment during the applicable public comment period or an oral comment at the public meeting conducted by the Secretary. Absent a determination of the Environmental judge to the contrary, an aggrieved person may only appeal issues related to the person's comments to the Secretary as prescribed by 10 V.S.A. § 8504(d)(2). Any appeal of this decision must be filed with the clerk of the Environmental Division of the Superior Court within 30 days of the date of the decision. The Notice of Appeal

must specify the parties taking the appeal and the statutory provision under which each party claims party status; must designate the act or decision appealed from; must name the Environmental Division; and must be signed by the appellant or their attorney. In addition, the appeal must give the address or location and description of the property, project, or facility with which the appeal is concerned; the name of the permittee; and any permit involved in the appeal. The appellant must also serve a copy of the Notice of Appeal in accordance with Rule 5(b)(4)(B) of the Vermont Rules for Environmental Court Proceedings. For further information, see the Vermont Rules for Environmental Court Proceedings, available online at www.vermontjudiciary.org. The address for the Environmental Division is: 32 Cherry Street, 2nd Floor, Suite 303, Burlington, VT 05401 (Tel. # 802-951-1740).

FINDINGS

1. The Agency received a complete permit application from VTrans for a Vermont Wetland Permit on December 18, 2025.

2. The wetland and adjacent 50-foot buffer zone are located approximately 0.6 miles south of exit 15 along both sides of I-91 in Fairlee

3. Julie Follensbee District Wetlands Ecologist, conducted a site visit to the subject property with Jessie Johnson of VTrans on May 28, 2025.

4. The wetland is identified as a palustrine wetland on the Vermont Significant Wetlands Inventory (VSWI) maps and therefore designated as a Class II wetland under VWR § 4.6. Actual wetland area is substantially different from the VSWI mapped area.

5. The wetland in question is described in detail in Section 4 of the permit application. The riparian wetland is emergent with *Typha latifolia, Phalaris arundinacea, and Thelpteris palustris*. Soils are mapped as Walpole fine sandy loam and the wetland is saturated with open water components.

6. The proposed project is described in detail in Sections 6 and 7 of the permit application. The project consists of the replacement of two I91 bridges.

7. Proposed impacts to the wetland and buffer zone, summarized in Section 8 of the permit application, are as follows:

Wetland Alteration:		**Buffer Zone Alteration:**	
Wetland Fill:	0 sq.ft.		
Temporary:	900 sq.ft.	Temporary:	7,240 sq.ft.
Other Permanent:	700 sq.ft.	Permanent:	10,900 sq.ft.
Total Wetland Impact	**1,600** sq.ft.	**Total Buffer Zone Impact:**	**18,140** sq.ft.

8. The protected functions of the wetland include the following: water storage for flood water and storm runoff (VWR § 5.1), surface and groundwater protection (VWR §

5.2), fish habitat (VWR § 5.3), wildlife (VWR § 5.4), and erosion control through binding and stabilizing the soil (VWR § 5.10).

9. The following functions are either not present or are present at such a minimal level as to not be protected functions: exemplary wetland natural community (VWR § 5.5), threatened and endangered species habitat (VWR § 5.6), education and research in natural sciences (VWR § 5.7), recreational value and economic benefits (VWR § 5.8), open space and aesthetics (VWR § 5.9).

10. The wetland is significant for water storage for flood water and storm runoff function as demonstrated in Section 11 of the permit application. Based on the factors described in Section 11.2 of the application, as confirmed through a site visit by Agency staff, the proposed project will not result in an undue adverse impact to this function.

11. The wetland is significant for the surface and ground water protection function as described in Section 12 of the permit application. Based on the factors described in Section 12.2 of the application, as confirmed through a site visit by Agency staff, the proposed project will not result in an undue adverse impact to this function.

12. The Wetland Ecologist states that the wetland is significant for the fish habitat function because the wetland complex contains woody vegetation that overhangs the banks of the stream, providing feeding habitat, sources of terrestrial insects for fish, and erosion control. As confirmed through a site visit by Agency staff, the proposed project will not result in an undue adverse impact to this function.

13. The wetland is significant for the wildlife habitat function as described in Section 14 of the permit application. Additionally, the Wetland Ecologist states that the riparian wetland complex provides habitat for numerous wetland dependent species of birds, fish, and mammals. The subject wetland is located in a highly developed area adjacent to the interstate and Route 5 which limits the function in this area and impacts from the project. Based on the factors described in Section 14.2 of the application and as confirmed through a site visit by Agency staff, the proposed project will not result in an undue adverse impact to this function.

14. The wetland is significant for the erosion control function demonstrated in Section 20 of the permit application. Based on the factors described in Section 20.2 of the application , as confirmed through a site visit by Agency staff, the proposed project will not result in an undue adverse impact to this function.

15. Under 10 V.S.A. § 913 and VWR § 9.5, the Secretary may authorize activities in a Class II wetland or in its buffer zone if the Secretary determines that it complies with the VWR and will have no undue adverse effect on the protected functions and values. Based on the permit application, the site visit(s) by Agency staff, and the foregoing findings and analysis, the Secretary has determined that the proposed project will have no undue adverse effects on the protected functions and values of the Class II wetland.

16. Pursuant to VWR § 9.5(b), the permittee has demonstrated that the proposed activity in the wetland cannot practicably be located outside the wetland or on

another site owned, controlled, or available to satisfy the basic project purpose. All practicable measures have been taken in this proposal to avoid adverse impacts on protected functions, as described in the application.

In summary, the project proposes to reconstruct an existing culvert structure with a bridge, so the wetlands cannot be avoided. Traffic control measures will be phased and will use the median to avoid wetland impacts from reroutes. Erosion control measures will be used during and immediately following construction. Restoration following the project will result in seeding and shrub planting in 11,386 square feet of wetland and 72,745 square feet of buffer zone per the Fairlee IM 091-2(91) Planting Plan dated 8/20/2024.

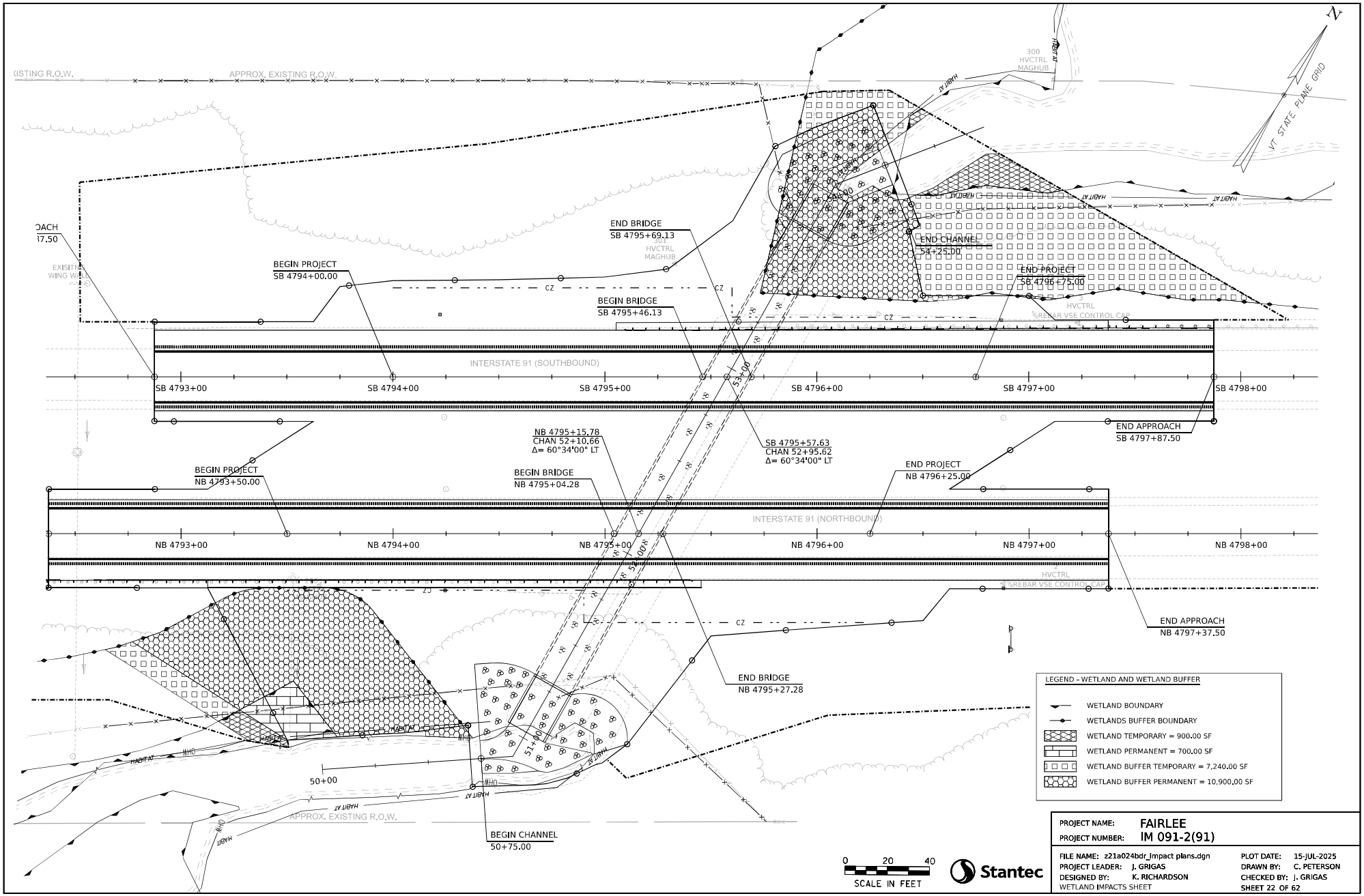
17. No public comments were received during the public comment period.

Julie S. Moore, Secretary
Agency of Natural Resources

by: _____
Laura Lapierre, Program Manager
Wetlands Program
Watershed Management Division

Dated at Montpelier, Vermont
this second day of March 2026

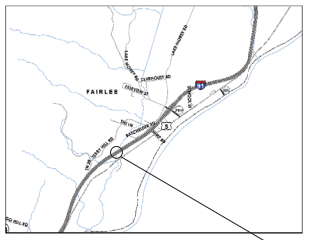
JSM/LVPL/JEF

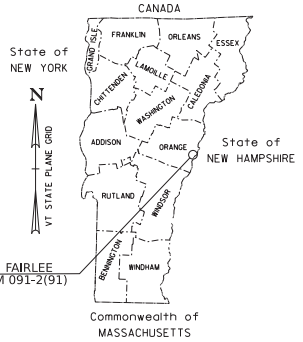

APPROX. EXISTING R.O.W.
VT STATE PLANE GRID
END BRIDGE
SB 4795+69.13
BEGIN PROJECT
SB 4794+00.00
BEGIN BRIDGE
SB 4795+46.13
END CHANNEL
54+25.00
END PROJECT
SB 4796+75.00
INTERSTATE 91 (SOUTHBOUND)
SB 4793+00
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
NB 4795+15.78
CHAN 52+10.66
Δ= 60°34'00" LT
SB 4795+57.63
CHAN 52+95.62
Δ= 60°34'00" LT
END APPROACH
SB 4797+87.50
BEGIN PROJECT
NB 4793+50.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+25.00
INTERSTATE 91 (NORTHBOUND)
NB 4793+00
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
END APPROACH
NB 4797+37.50
END BRIDGE
NB 4795+27.28
50+00
BEGIN CHANNEL
50+75.00
HVCTRL
MAGHUB
HVCTRL
5/8REBAR VSE CONTROL CAP
CZ
HABITAT
WHO
LEGEND - WETLAND AND WETLAND BUFFER
WETLAND BOUNDARY
WETLANDS BUFFER BOUNDARY
WETLAND TEMPORARY = 900.00 SF
WETLAND PERMANENT = 700.00 SF
WETLAND BUFFER TEMPORARY = 7,240.00 SF
WETLAND BUFFER PERMANENT = 10,900.00 SF
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
WETLAND IMPACTS SHEET
PLOT DATE: 15-JUL-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 22 OF 62

REVIEWER NOTES:

1. CONSTRUCTION WILL TAKE PLACE OVER THREE CONSTRUCTION SEASONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION



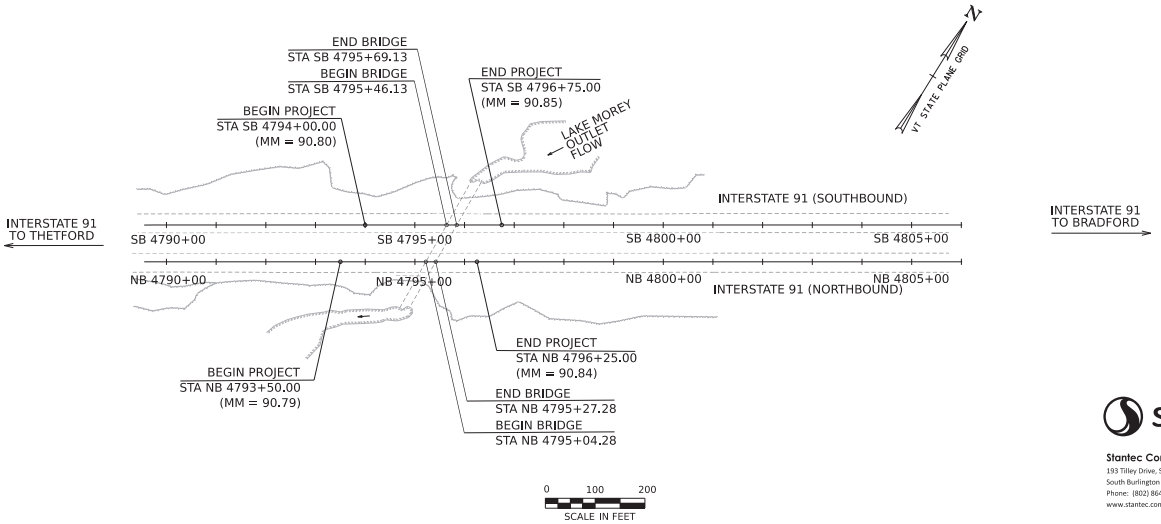


PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF FAIRLEE
COUNTY OF ORANGE
ROUTE NO: I-91 BRIDGES 55-2 & 55-3
(I-91 PRINCIPLE ARTERIAL - INTERSTATE)

PROJECT LOCATION : BRIDGES 55-2 AND 55-3 ARE LOCATED APPROXIMATELY 0.6 MILES SOUTH OF EXIT 15 ALONG INTERSTATE 91 (I-91).

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGES 55-2 AND 55-3 WITH A PRECAST CONCRETE STRUCTURE AND CONSTRUCTION OF TEMPORARY CROSSOVERS, ALONG WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

BRIDGE 55-2 SOUTHBOUND		BRIDGE 55-2 NORTHBOUND		TOTAL	
LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	23 FEET	LENGTH OF STRUCTURE :	46 FEET
LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	252 FEET	LENGTH OF ROADWAY :	504 FEET
LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	275 FEET	LENGTH OF PROJECT :	550 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 1

SURVEYED BY : R. GILMAN
SURVEYED DATE : 06/13/2022

DATUM
VERTICAL NAVD88
HORIZONTAL NAD 83 (2011)

PERMITTING PLANS
3-DEC-2025

Stantec
Stantec Consulting Services Inc.
193 Tilley Drive, Suite 1
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
www.stantec.com

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____

PROJECT MANAGER : ADAM GOUDREAU, P.E.

PROJECT NAME : FAIRLEE
PROJECT NUMBER : IM 091-2(91)

SHEET 1 OF 50 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (CULVERT)

Version
LRFD

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	CONVENTIONAL SYMBOLOGY LEGEND SHEET
4	ENVIRONMENTAL IMPACT PERMIT LEGEND
5 - 7	TYPICAL SECTION SHEETS 1-3
8	ORDINARY HIGH WATER IMPACTS
9 - 10	WETLAND IMPACTS
11	IMPERVIOUS SURFACES
12 - 23	EARTH DISTURBANCE SHEETS 1-12
24 - 25	TREE CLEARING SHEETS 1-2
26 - 37	EPSC - EXISTING CONDITIONS PLAN SHEETS 1-12
38 - 41	I91 NB XS SHEETS 1-4
42 - 44	I91 SB XS SHEETS 1-3
45 - 50	CHANNEL XS SHEETS 1-6

DETAIL SHEETS

HSD 213.01	MILLED RUMBLE STRIPS (SHOULDER)	2/27/2017
HSD 400.01	SAFETY EDGE DETAILS	1/5/2018
HSD 621.07	MIDWEST GUARDRAIL SYSTEM (MGS)	1/4/2021
HSD 621.07	W-BEAM GUARDRAIL COMPONENTS	4/17/2019
HSD 621.07	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR	4/17/2019
HSD 621.07	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD 621.07	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD 621.07	MIDWEST GUARDRAIL SYSTEM TRANSITION SECTION	1/4/2021

STANDARDS LIST

D-6	REINFORCED CONCRETE DROP INLET W/GRATE (DITCHES)	08-25-2024
D-8	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER & GRATE	08-25-2024
D-11	STEEL OR IRON GRATES & COVERS (TYPE A)	08-01-1994
D-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	08-01-1994
E-2	SHRUB PLANTING	08-25-2024
E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	08-25-2024
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-13	INLET PROTECTION DEVICE, TYPE I	04-07-2020
E-14	INLET PROTECTION DEVICE, TYPE III	05-09-2024
E-15	SILT FENCE	04-07-2020
F-1	WOVEN WIRE FENCE DETAILS	08-25-2024
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	08-25-2024
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	08-25-2024
S-500	CONCRETE DETAILS AND NOTES	02-15-2023
S-501	CONCRETE DETAILS AND NOTES	02-15-2023
T-1	TRAFFIC CONTROL GENERAL NOTES	08-25-2024
T-11	CONSTRUCTION APPROACH SIGNING DIVIDED HIGHWAY ONE LANE CLOSED	08-25-2024
T-12	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-25-2024
T-13	TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	08-25-2024
T-14	TRAFFIC CONTROL DIVIDED HIGHWAY ONE ROADWAY CLOSED	08-25-2024
T-15	TRAFFIC CONTROL DIVIDED HIGHWAY ONE ROADWAY CLOSED	08-25-2024
T-16	TRAFFIC CONTROL FOR U-TURN USE ON DIVIDED HIGHWAY	08-25-2024
T-22	TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY	08-25-2024
T-23	TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY	08-25-2024
T-28	CONSTRUCTION SIGN DETAILS	08-25-2024
T-29	CONSTRUCTION SIGN DETAILS	08-25-2024
T-30	CONSTRUCTION SIGN DETAILS	02-17-2022
T-31	CONSTRUCTION SIGN DETAILS	08-25-2024
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08-25-2024
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08-25-2024
T-40	DELINEATORS AND MILEPOSTS	08-25-2024
T-42	BRIDGE NUMBER PLAQUE	08-25-2024
T-43	FREEWAY - EXPRESSWAY DELINEATOR PLACEMENT	08-25-2024
T-45	SQUARE TUBE SIGN POST AND ANCHOR	08-25-2024
T-55	SIGN PLACEMENT EXPRESSWAY & FREEWAY	08-25-2024
T-130	EXTRUDED ALUMINUM GUIDE SIGN ATTACHMENT DETAILS	08-24-2025
T-161	W-SHAPED STEEL BEAM SIGN POST	08-24-2025

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2025	5300	880	0	4.2	100
2045	5900	980	0	5.8	600

20 year ESAL for flexible pavement from 2025 to 2045 : 0

40 year ESAL for flexible pavement from 2025 to 2065 : 0

Design Speed : 70 mph

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

FINAL HYDRAULIC REPORT

Date: 3/4/2024

DRAINAGE AREA : 8.4 square miles
CHARACTER OF TERRAIN : Mixed forested and open land with Lake Morey just upstream
STREAM CHARACTERISTICS : Meandering low gradient valley bottom stream
NATURE OF STREAMBED : Silt, sand and gravel

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% =	160 cfs	2% =	500 cfs
10% =	320 cfs	1% =	580 cfs
4% =	420 cfs	0.2% =	680 cfs

NATURAL STREAM VELOCITY : N/A
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? Yes - D/S
IF YES, DESCRIBE: Tailwater conditions due to the mild gradient and US5 Bridge 90: 7-ft by 7-ft RCB constriction.

WATERSHED STORAGE: 10.8% HEADWATERS:
UNIFORM:
IMMEDIATELY ABOVE SITE: Lake Morey

INFORMATION

STRUCTURE TYPE: (2) 7-ft CGMPP
YEAR BUILT: 1971
CLEAR SPAN(NORMAL TO STREAM): 2 @ 7-ft diameter
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY OF FULL OPENING: Total = 77 sqft
DISPOSITION OF STRUCTURE: Replacement
TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:

50% AEP =	404.2 ft	VELOCITY =	3.5 fps
10% AEP =	406.9 ft	"	4.3 fps
4% AEP =	409.6 ft	"	5.5 fps
2% AEP =	411.9 ft	"	6.5 fps
1% AEP =	414.3 ft	"	7.6 fps

LONG TERM STREAMBED CHANGES: No

IS THE EXISTING BRIDGE ON THE VTRANS SCOUR CRITICAL LIST? N/A

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None
BRIDGE LOW CHORD ELEVATION: N/A

E

TOWN: Fairlee DISTANCE: 1000 ft
HIGHWAY # : TH-14 STRUCTURE #: Culv ID 3
CLEAR SPAN: 6-ft CLEAR HEIGHT: 6-ft
YEAR BUILT: unknown FULL WATERWAY: 28.3 sqft
STRUCTURE TYPE: 6-ft corrugated metal pipe

'URE

TOWN: Fairlee DISTANCE: 450 ft
HIGHWAY # : US5 STRUCTURE #: Bridge 90
CLEAR SPAN: 7-ft CLEAR HEIGHT: 7-ft
YEAR BUILT: 1939 FULL WATERWAY: 49 sqft
STRUCTURE TYPE: Reinforced Concrete Box

ION

PROPOSED STRUCTURE

STRUCTURE TYPE: 18.0 ft x 13.0 ft - Reinforced Concrete Box

CLEAR SPAN(NORMAL TO STREAM): 18.0 ft
VERTICAL CLEARANCE ABOVE STREAMBED: 11.0 ft (13.0 ft height embedded 2
WATERWAY OF FULL OPENING: 135 sqft

WATER SURFACE ELEVATIONS AT:

50% AEP =	403.2 ft	VELOCITY=	2.2 fps
10% AEP =	405.6 ft	"	2.7 fps
4% AEP =	407.0 ft	"	3.1 fps
2% AEP =	408.5 ft	"	3.7 fps
1% AEP =	409.8 ft	"	4.3 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: > 1%AEP
RELIEF ELEVATION: 431 ft +/- on both NB and SB lanes
DISCHARGE OVER ROAD @ 1% AEP: None

BRIDGE LOW CHORD ELEVATION: N/A
FREEBOARD: N/A

SCOUR: N/A the proposed is a reinforced concrete box culvert

REQUIRED CHANNEL PROTECTION: E-Stone Type II-streambed;Stone Fill Type II-tanks

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A
CLEAR SPAN (NORMAL TO STREAM): -
VERTICAL CLEARANCE ABOVE STREAMBED: -
WATERWAY AREA OF FULL OPENING: -

ADDITIONAL INFORMATION

Tailwater conditions for the existing and proposed structures are controlled by US5 Bridge 90

CALCULATIONS BY: PJR
CHECKED BY: KRF

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR	4A STR	5A SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER						

CULVERT DESIGN CRITERIA

1. PROPOSED CULVERT IS A PRECAST CONCRETE STRUCTURE (18'-0" X 13'-0" X 292'-0" BOX).
2. CULVERT ENDS ARE NOT SKEWED.
3. CULVERT WILL BE SET AT A SLOPE OF 0.60 IN. ON 10 FT.
4. CULVERT WILL REQUIRE FISH PASSAGE ACCOMODATIONS
5. CULVERT CONSTRUCTION WILL REQUIRE A TEMPORARY PIPE

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_p:	3.0 INCH
3. CULVERT OPENING	D:	18.00FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	- - -
5. PRESTRESSING STRAND	f_y:	- - -
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	- - -
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	- - -
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c:	- - -
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c:	- - -
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'_c:	- - -
11. CONCRETE, CLASS C	f'_c:	- - -
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270	f_y:	- - -
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	- - -
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	- - -
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
18. PILE RESISTANCE FACTOR	ϕ:	- - -
19. LATERAL PILE DEFLECTION	Δ:	- - -
20. BASIC WIND SPEED	V_{3s}:	- - -
21. MINIMUM GROUND SNOW LOAD	p_g:	- - -
22. SEISMIC DATA PGA: - - -	S_s:	- - -
	S_1:	- - -
23.		- - -
24.		- - -
25.		- - -
26.		- - -

Stantec

PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)

FILE NAME: z21a024PI_env.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: J. GRIGAS
PRELIMINARY INFORMATION SHEET

PLOT DATE: 3-DEC-2025
DRAWN BY: P. ARMATA
CHECKED BY: J. GRIGAS

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⊡	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌗	APL	BOUND APPARENT LOCATION
▫	BM	BENCHMARK
▫	BND	BOUND
⧈	CB	CATCH BASIN
✿	COMB	COMBINATION POLE
⧈	DITHR	DROP INLET THROATED DNC
✿	EL	ELECTRIC POWER POLE
⚑	FPOLE	FLAGPOLE
⊙	GASFIL	GAS FILLER
⊙	GP	GUIDE POST
⋈	GSO	GAS SHUT OFF
⚬	GUY	GUY POLE
⚬	GUYW	GUY WIRE
⋈	GV	GATE VALVE
❁	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
⧋	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
●	IP	IRON PIN
●	IPIPE	IRON PIPE
✿	LI	LIGHT - STREET OR YARD
✉	MB	MAILBOX
○	MH	MANHOLE (MH)
▫	MM	MILE MARKER
⚬	PM	PARKING METER
▫	PMK	PROJECT MARKER
⚬	POST	POST STONE/WOOD
⚧	RRSIG	RAILROAD SIGNAL
◆	RRSL	RAILROAD SWITCH LEVER
✳	S	TREE SOFTWOOD
⌔	SAT	SATELLITE DISH
❁	SHRUB	SHRUB
⚲	SIGN	SIGN
⅄	STUMP	STUMP
⟡	TEL	TELEPHONE POLE
⚬	TIE	TIE
⚲⚲	TSIGN	SIGN W/DOUBLE POST
⅄	VCTRL	CONTROL VERTICAL
⚬	WELL	WELL
⋈	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6F — 6F — 6F PROPERTY BOUNDARY
- 4F — 4F — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- Ⓗ HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME:	z21a024symb.dgn
PROJECT LEADER:	VTrans
DESIGNED BY:	VTrans
CONVENTIONAL SYMBOLOGY LEGEND SHEET	
PLOT DATE:	12/3/2025
DRAWN BY:	VTrans
CHECKED BY:	VTrans
SHEET 3	OF 50

Common Definitions:

Wetland Buffer: upland adjacent to wetland boundary. This should be depicted as a 50' zone immediately adjacent to wetland boundary. This should be only included on VT Wetlands permitting plans.

Ordinary High Water (OHW): 33 CFR 328.3(e) states…"The term ordinary high water mark means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."

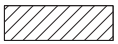
Secondary impacts: areas that have been drained, flooded, cleared, excavated or fragmented. Examples include: habitat fragmentation (disturbance to movement of aquatic wildlife, terrestrial wildlife), hydrology (draining stream with cofferdam), hydrological functions and non-point source impacts.

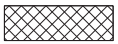
Temporary impacts: aquatic ecosystem loss as a result of fill placement that will be removed. Examples: stone pad to access piers, construction mats, placement of sandbag cofferdam.

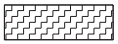
Permanent impacts: aquatic ecosystem loss as a result of fill placement that will not be removed. Examples: stone placement for bank stabilization, pier construction, and scour protection around abutment.

VT IMPACT PERMITING PLAN SYMBOLOGY

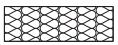
OHW IMPACTS

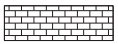

OHW TEMPORARY

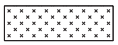

OHW PERMANENT


OHW SECONDARY

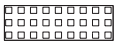
WETLAND IMPACTS

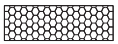

WETLANDS TEMPORARY


WETLANDS PERMANENT


WETLANDS SECONDARY

WETLAND BUFFER IMPACTS (VT ANR ONLY)


WETLANDS BUFFER TEMPORARY


WETLANDS BUFFER PERMANENT

AREA/BOUNDARY LINESTYLE SYMBOLOGY


TOTAL IMPACT AREA


WETLANDS BUFFER BOUNDARY

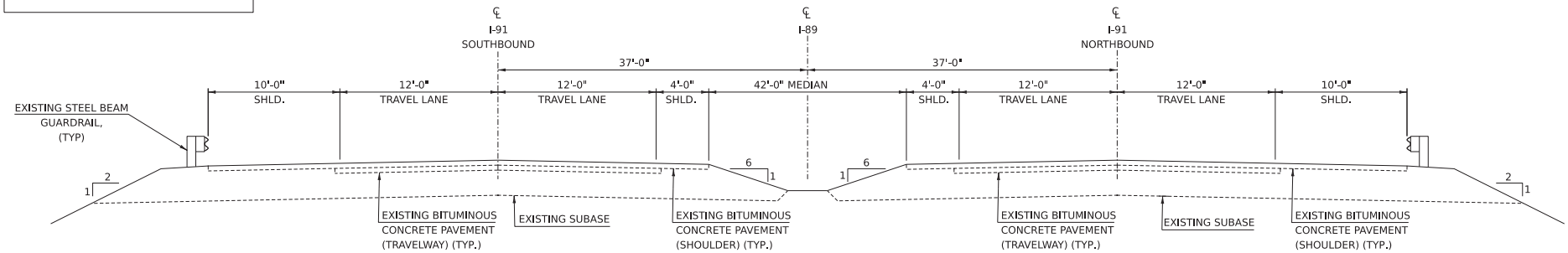
DEWATERING AREA

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024symb.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: VTrans	DRAWN BY: VTrans
DESIGNED BY: VTrans	CHECKED BY: VTrans
ENVIRONMENTAL IMPACT PERMIT LEGEND	SHEET 4 OF 50

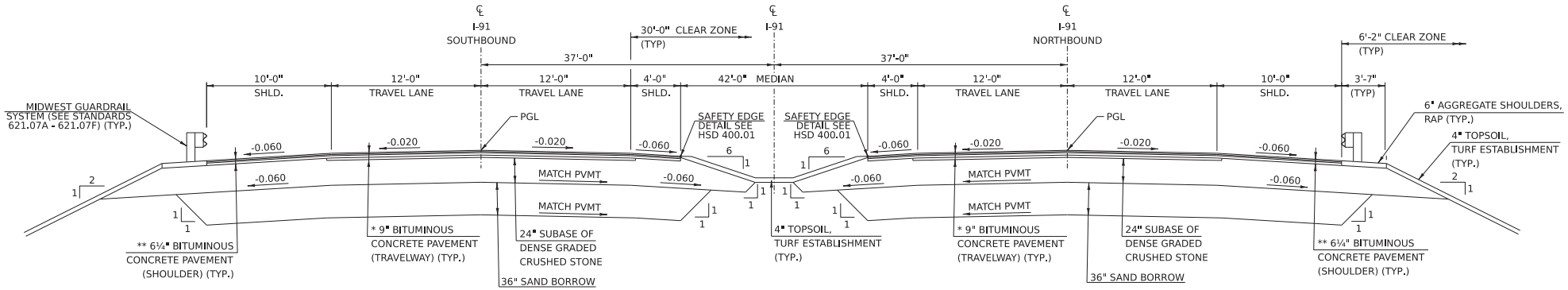
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¾"
SUBBASE	+/- 1"



EXISTING ROADWAY TYPICAL SECTION

NOT TO SCALE



PROPOSED ROADWAY TYPICAL SECTION

NOT TO SCALE

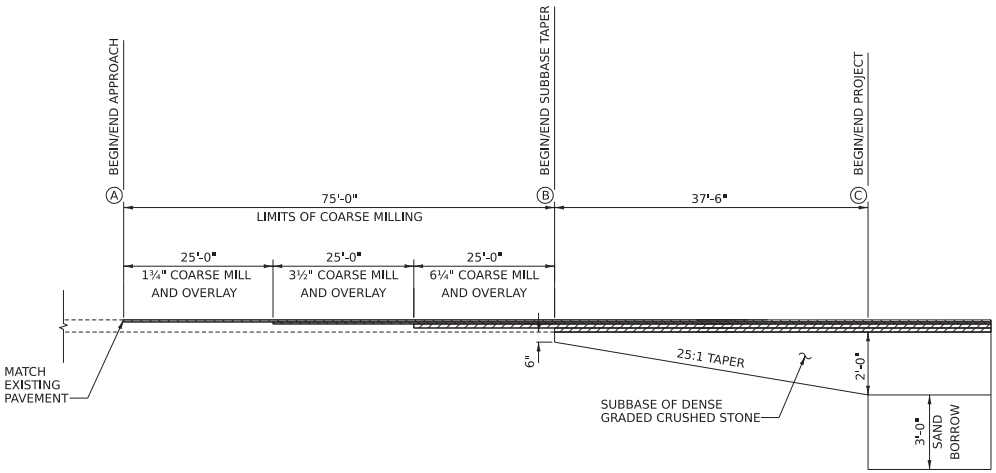
* TRAVELWAY PAVEMENT
1¾" TYPE IIIS OVER
1¾" TYPE IIIS OVER
2¾" TYPE IIS OVER
2¾" OF TYPE IIS

** SHOULDER PAVEMENT
1¾" TYPE IIIS OVER
1¾" TYPE IIIS OVER
2¾" TYPE IIS

NOTES:
1. RUMBLE STRIPS TO BE INSTALLED ON ALL SHOULDERS PER HIGHWAY SAFETY & DESIGN DETAIL HSD-213.01

Stantec

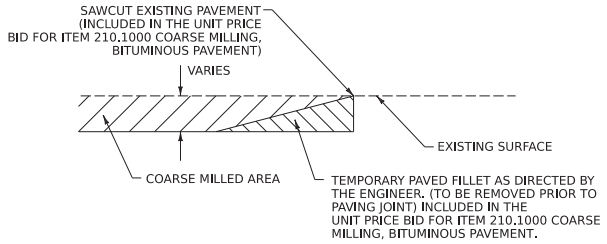
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 1	SHEET 5 OF 50



	Ⓐ	Ⓑ	Ⓒ
NORTHBOUND			
SOUTH APPROACH	4792+37.50	4793+12.50	4793+50.00
NORTH APPROACH	4797+37.50	4796+62.50	4796+25.00
SOUTHBOUND			
SOUTH APPROACH	4792+87.50	4793+62.50	4794+00.00
NORTH APPROACH	4797+87.50	4797+12.50	4796+75.00

TYPICAL APPROACH SECTION

NOT TO SCALE



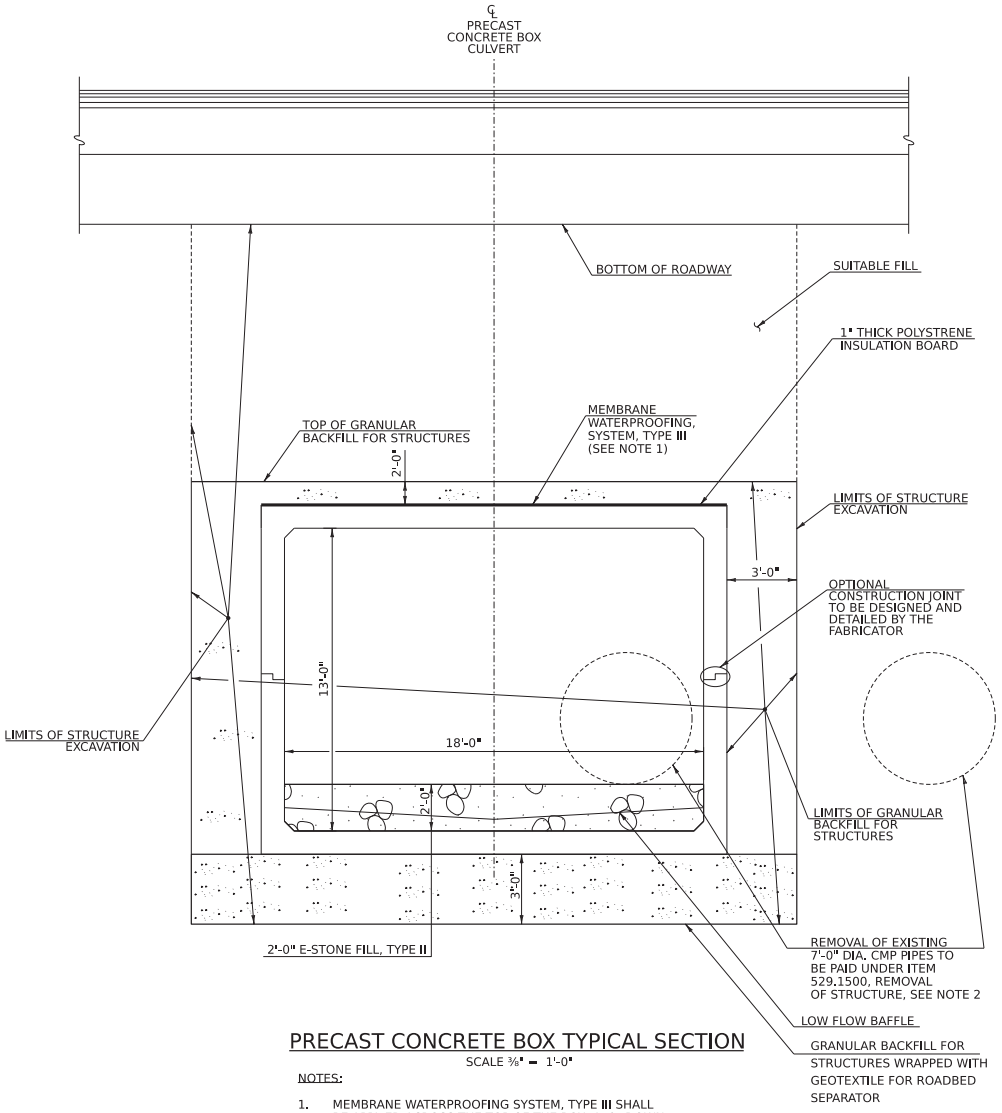
NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS SHOWN ABOVE AS DIRECTED BY THE ENGINEER.

DETAIL AT VERTICAL COARSE MILLING JOINTS

NOT TO SCALE

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 2	SHEET 6 OF 50

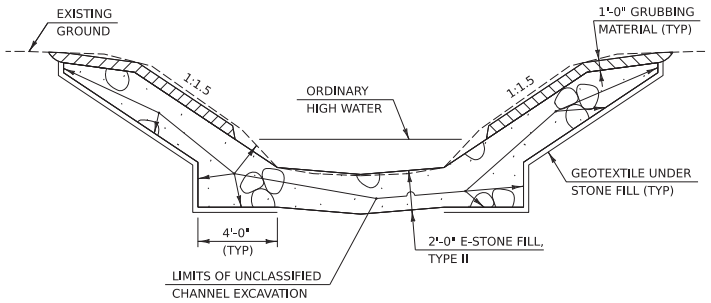


PRECAST CONCRETE BOX TYPICAL SECTION

SCALE ⅜" = 1'-0"

NOTES:

1. MEMBRANE WATERPROOFING SYSTEM, TYPE III SHALL BE APPLIED ACROSS THE TOP OF THE BOX, 1'-0" DOWN EACH SIDE, AND 2'-0" ACROSS EACH HORIZONTAL AND VERTICAL JOINT. SHINGLE ANY JOINTS IN THE MEMBRANE WITH AN OVERLAP OF ONE FOOT.
2. THE EXISTING PIPE OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION MAY BE FILLED WITH CONTROLLED DENSITY FLOWABLE FILL INSTEAD OF REMOVAL. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 529.1500, REMOVAL OF STRUCTURE.



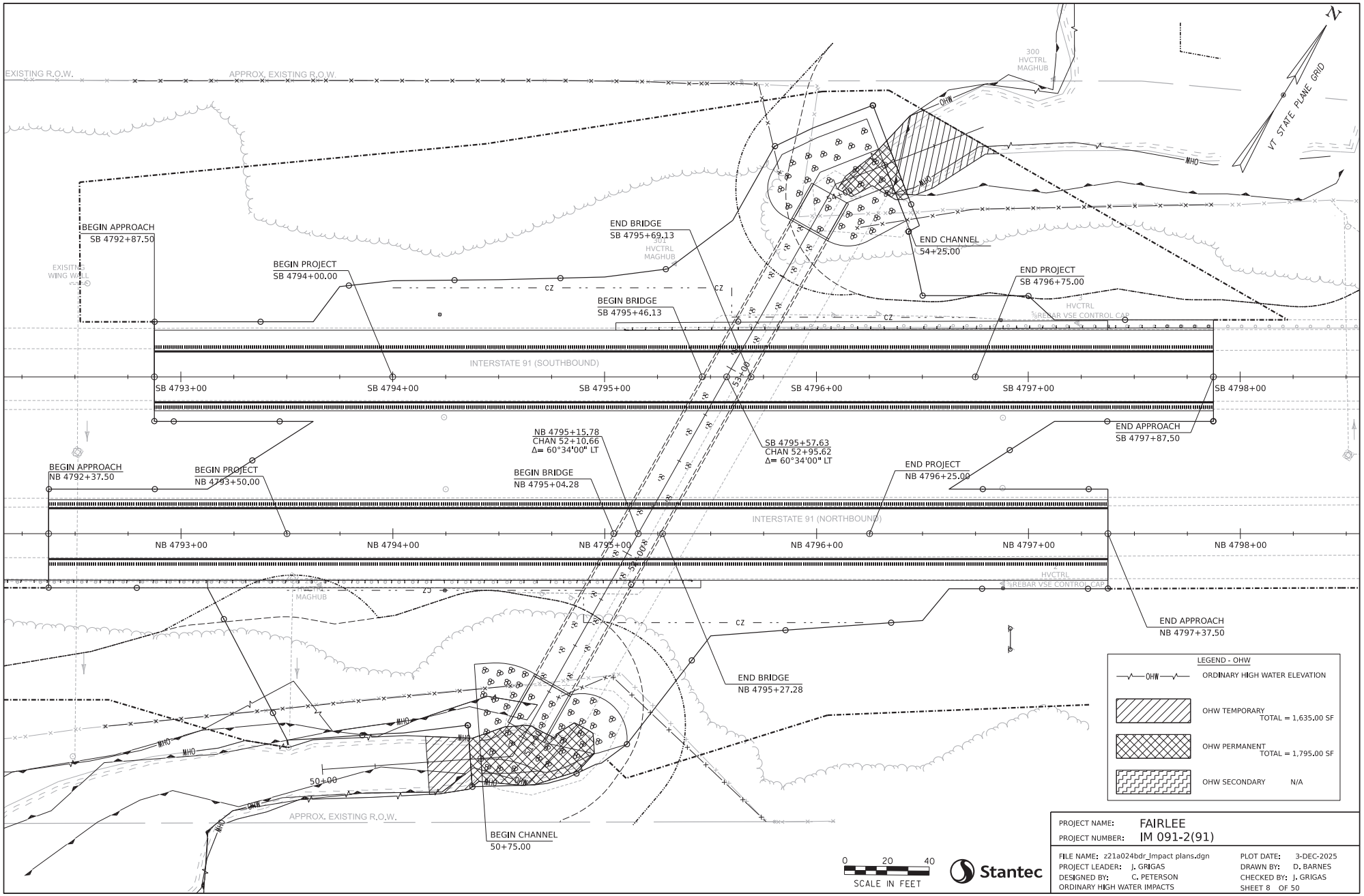
TYPICAL CHANNEL SECTION

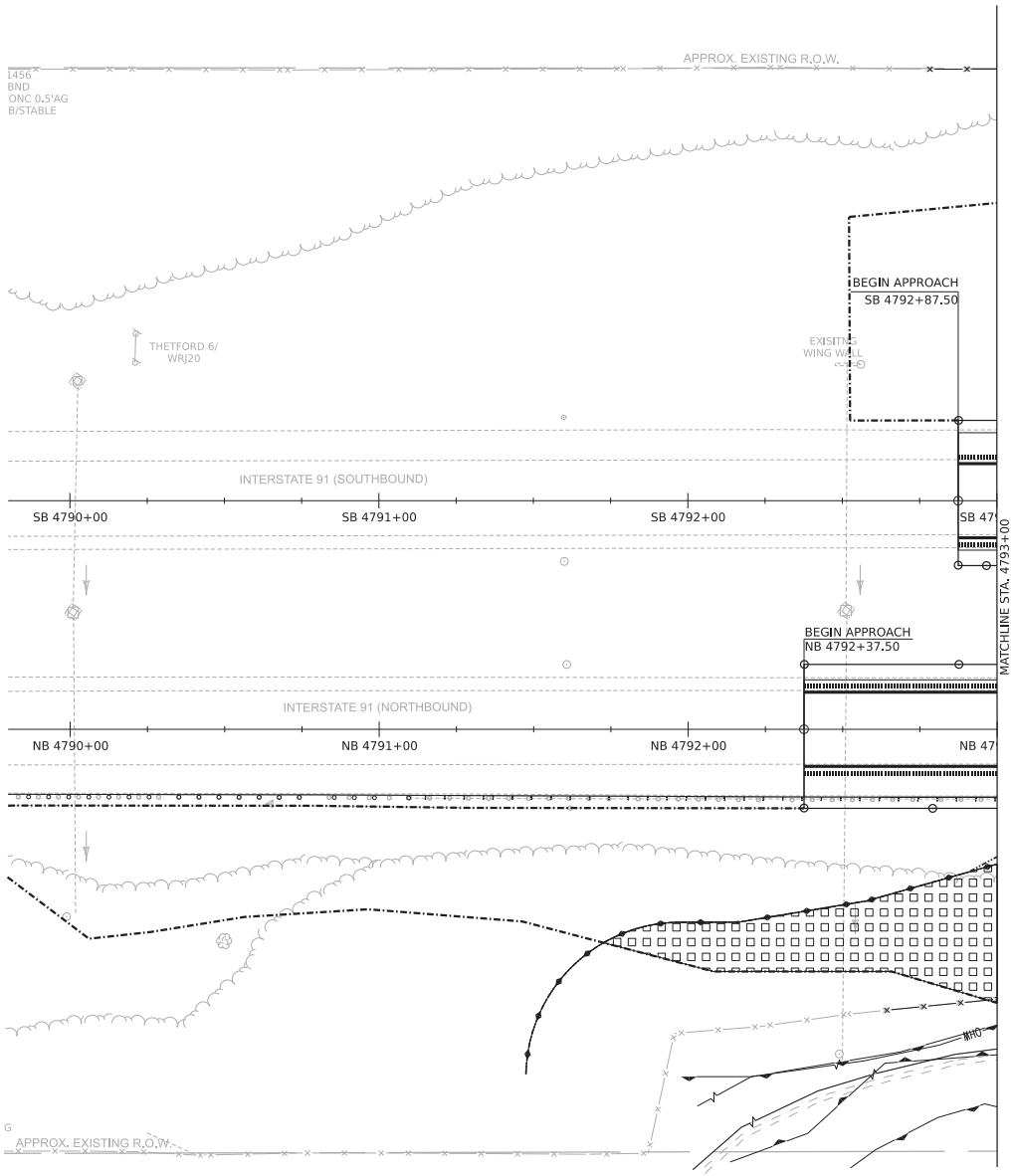
(NOT TO SCALE)

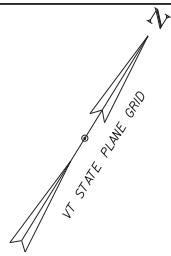
1. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
2. THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024typ.dgn	PLOT DATE: 12/3/2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P. ARMATA
DESIGNED BY: J. GRIGAS	CHECKED BY: J. GRIGAS
TYPICAL SECTION SHEET 3	SHEET 7 OF 50


EXISTING R.O.W.
APPROX. EXISTING R.O.W.
300
HVCTRL
MAGHUB
VT STATE PLANE GRID
BEGIN APPROACH
SB 4792+87.50
BEGIN PROJECT
SB 4794+00.00
END BRIDGE
SB 4795+69.13
END CHANNEL
54+25.00
END PROJECT
SB 4796+75.00
BEGIN BRIDGE
SB 4795+46.13
EXISITING
WING WALL
HVCTRL
REBAR VSE CONTROL CAP
INTERSTATE 91 (SOUTHBOUND)
SB 4793+00
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
53+00
END APPROACH
SB 4797+87.50
NB 4795+15.78
CHAN 52+10.66
Δ= 60°34'00" LT
SB 4795+57.63
CHAN 52+95.62
Δ= 60°34'00" LT
BEGIN APPROACH
NB 4792+37.50
BEGIN PROJECT
NB 4793+50.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+25.00
INTERSTATE 91 (NORTHBOUND)
NB 4793+00
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
MAGHUB
END APPROACH
NB 4797+37.50
END BRIDGE
NB 4795+27.28
50+00
BEGIN CHANNEL
50+75.00
APPROX. EXISTING R.O.W.
LEGEND - OHW
OHW
ORDINARY HIGH WATER ELEVATION
OHW TEMPORARY
TOTAL = 1,635.00 SF
OHW PERMANENT
TOTAL = 1,795.00 SF
OHW SECONDARY
N/A
0
20
40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: C. PETERSON
ORDINARY HIGH WATER IMPACTS
PLOT DATE: 3-DEC-2025
DRAWN BY: D. BARNES
CHECKED BY: J. GRIGAS
SHEET 8 OF 50





LEGEND - WETLAND AND WETLAND BUFFER

- WETLAND BOUNDARY
- WETLANDS BUFFER BOUNDARY
- WETLAND TEMPORARY = 0.00 SF
- WETLAND PERMANENT = 0.00 SF
- WETLAND BUFFER TEMPORARY = 2,673.00 SF
- WETLAND BUFFER PERMANENT = 0.00 SF

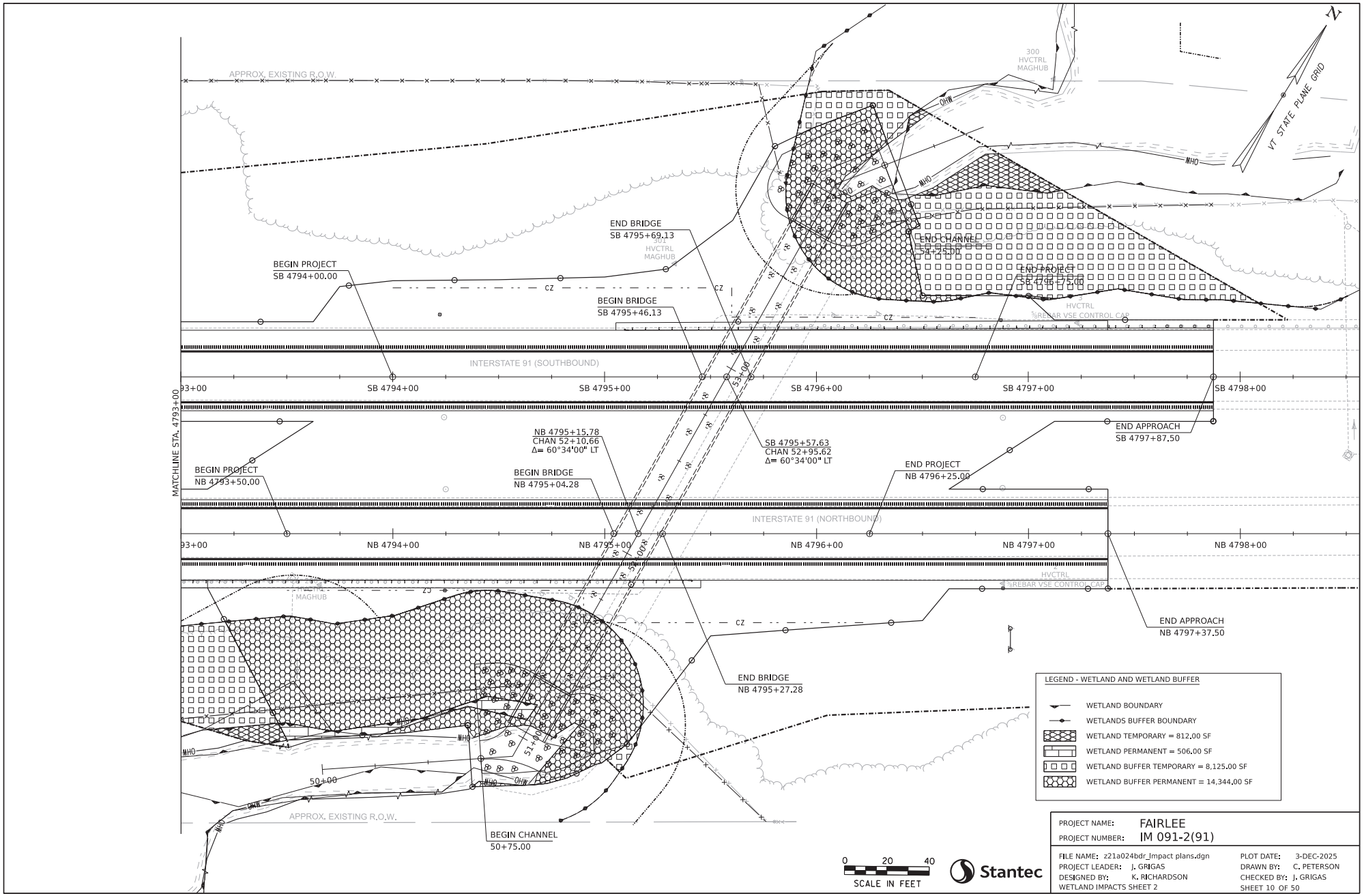
0 20 40
SCALE IN FEET

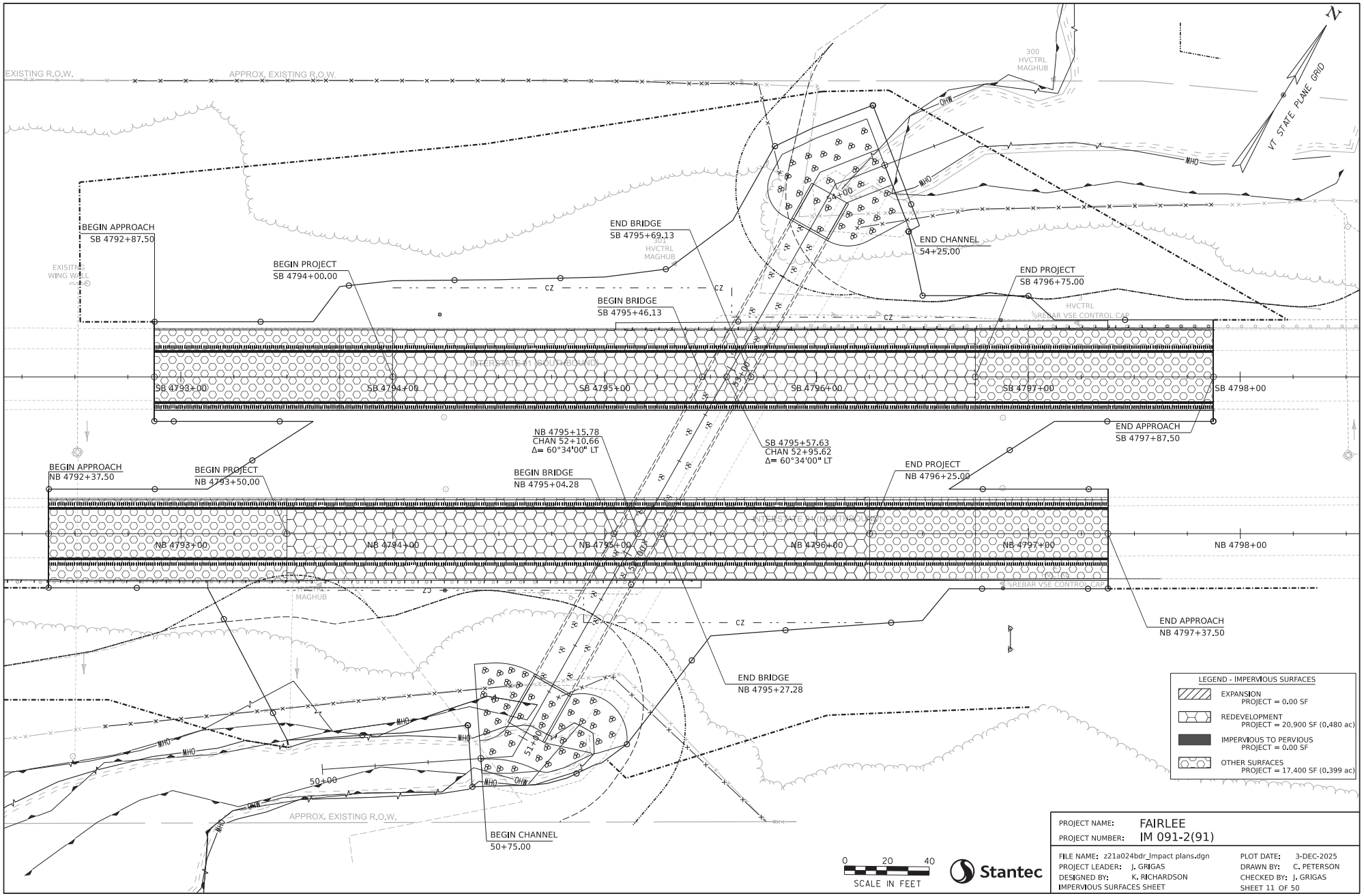
Stantec

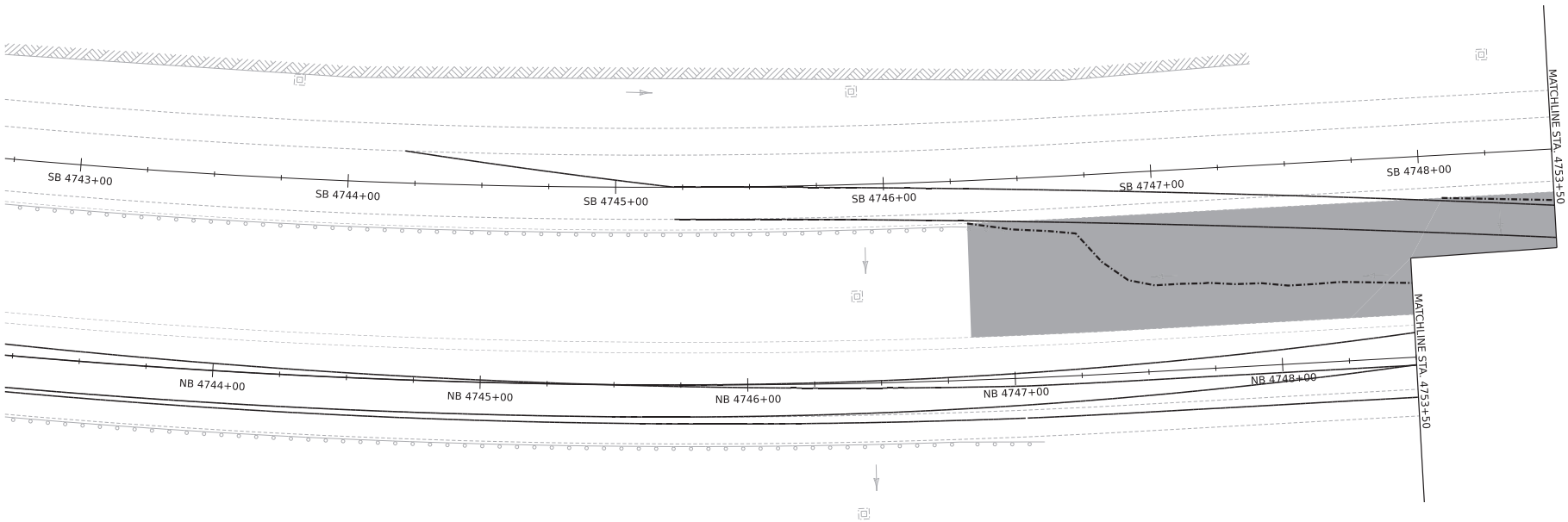
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
WETLAND IMPACTS SHEET 1

PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 9 OF 50


APPROX. EXISTING R.O.W.
300
HVCTRL
MAGHUB
VT STATE PLANE GRID
MHO
OHW
END BRIDGE
SB 4795+69.13
END CHANNEL
54+25.00
END PROJECT
SB 4795+75.00
HVCTRL
REBAR VSE CONTROL CAP
BEGIN PROJECT
SB 4794+00.00
BEGIN BRIDGE
SB 4795+46.13
CZ
INTERSTATE 91 (SOUTHBOUND)
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
MATCHLINE STA. 4793+00
NB 4795+15.78
CHAN 52+10.66
Δ= 60°34'00" LT
SB 4795+57.63
CHAN 52+95.62
Δ= 60°34'00" LT
END APPROACH
SB 4797+87.50
BEGIN PROJECT
NB 4793+50.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+25.00
INTERSTATE 91 (NORTHBOUND)
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
END APPROACH
NB 4797+37.50
END BRIDGE
NB 4795+27.28
50+00
BEGIN CHANNEL
50+75.00
APPROX. EXISTING R.O.W.
LEGEND - WETLAND AND WETLAND BUFFER
WETLAND BOUNDARY
WETLANDS BUFFER BOUNDARY
WETLAND TEMPORARY = 812.00 SF
WETLAND PERMANENT = 506.00 SF
WETLAND BUFFER TEMPORARY = 8,125.00 SF
WETLAND BUFFER PERMANENT = 14,344.00 SF
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
WETLAND IMPACTS SHEET 2
PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 10 OF 50


EXISTING R.O.W.
APPROX. EXISTING R.O.W.
VT STATE PLANE GRID
BEGIN APPROACH
SB 4792+87.50
BEGIN PROJECT
SB 4794+00.00
END BRIDGE
SB 4795+69.13
BEGIN BRIDGE
SB 4795+46.13
END CHANNEL
54+25.00
END PROJECT
SB 4796+75.00
EXISITING
WING WALL
INTERSTATE 91 SOUTHBOUND
SB 4793+00
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
END APPROACH
SB 4797+87.50
NB 4795+15.78
CHAN 52+10.66
Δ= 60°34'00" LT
SB 4795+57.63
CHAN 52+95.62
Δ= 60°34'00" LT
BEGIN APPROACH
NB 4792+37.50
BEGIN PROJECT
NB 4793+50.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+25.00
INTERSTATE 91 NORTHBOUND
NB 4793+00
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
END APPROACH
NB 4797+37.50
END BRIDGE
NB 4795+27.28
BEGIN CHANNEL
50+75.00
50+00
51+00
54+00
300
HVCTRL
MAGHUB
REBAR VSE CONTROL CAP
CZ
OHW
MHO
LEGEND - IMPERVIOUS SURFACES
EXPANSION
PROJECT = 0.00 SF
REDEVELOPMENT
PROJECT = 20,900 SF (0.480 ac)
IMPERVIOUS TO PERVIOUS
PROJECT = 0.00 SF
OTHER SURFACES
PROJECT = 17,400 SF (0.399 ac)
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
IMPERVIOUS SURFACES SHEET
PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 11 OF 50



LEGEND - EARTH DISTURBANCE

DISTURBANCE

PROJECT AREA:	2.70 ac
CROSSOVERS:	1.65 ac
WASTE AREA:	3.65 ac
ONSITE STAGING:	1.91 ac
TOTAL:	9.91 ac

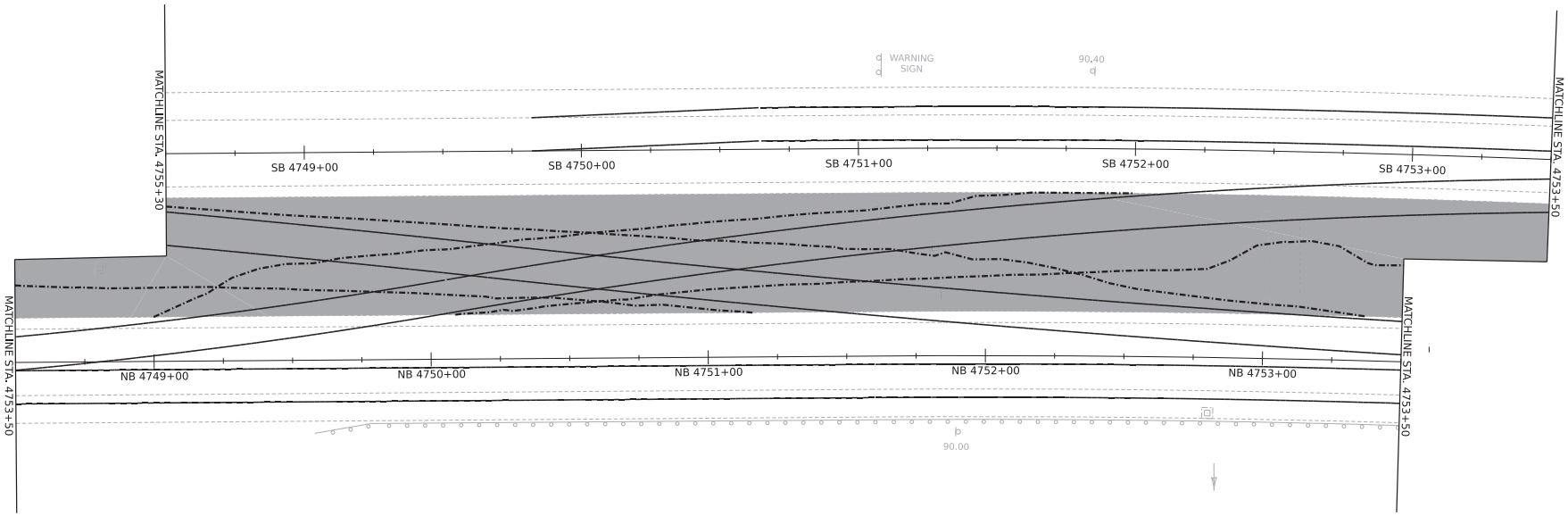
0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EARTH DISTURBANCE SHEET 1

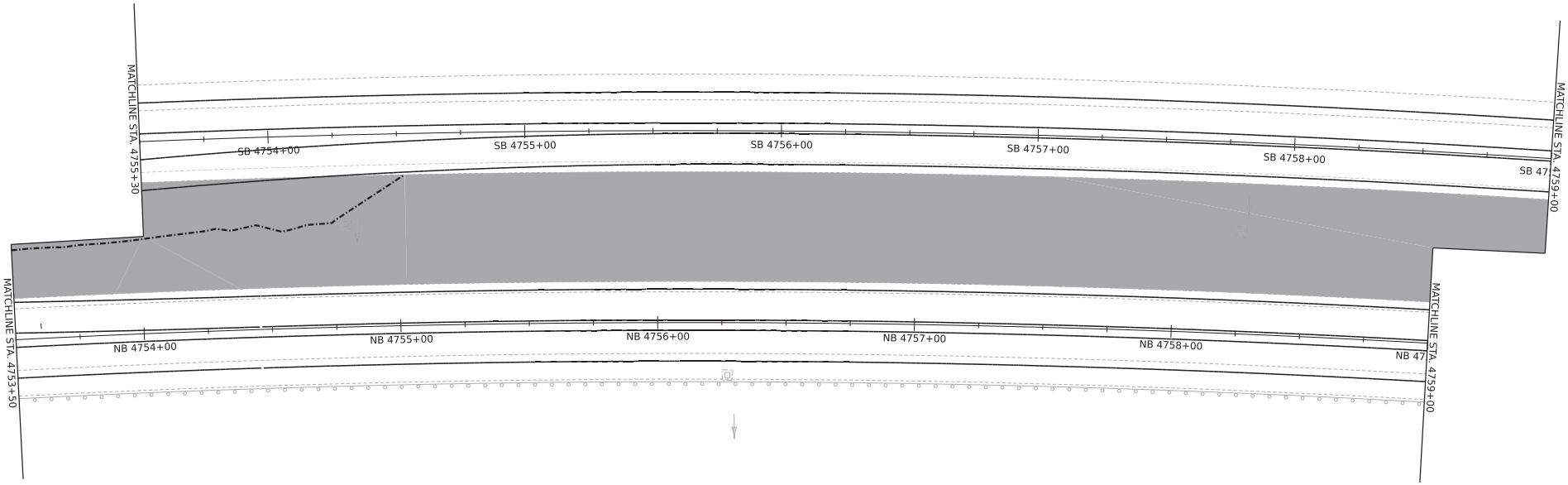
PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 12 OF 50



0 20 40
SCALE IN FEET

Stantec

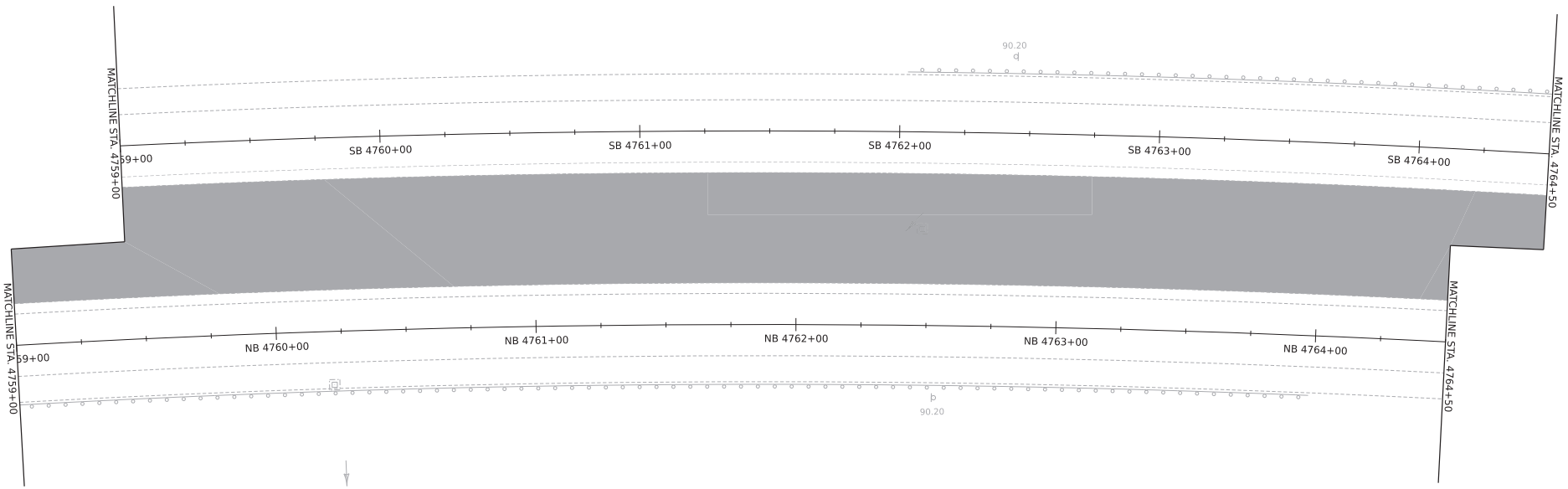
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: C. PETERSON
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 2	SHEET 13 OF 50



0 20 40
SCALE IN FEET

Stantec

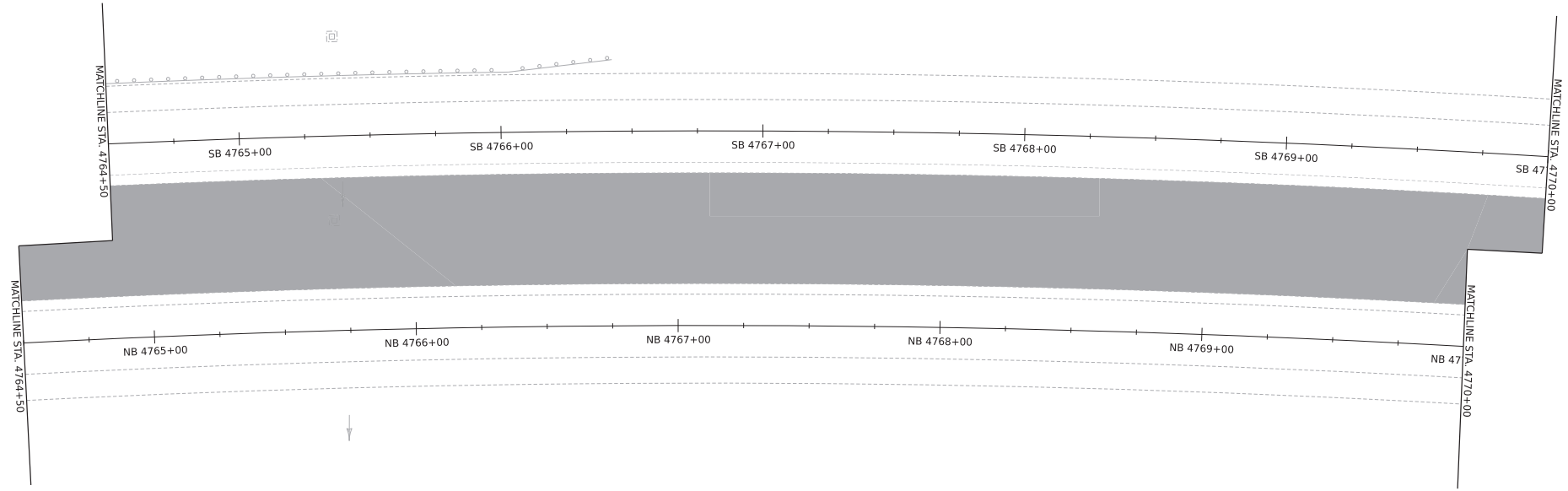
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: C. PETERSON
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 3	SHEET 14 OF 50



0 20 40
SCALE IN FEET

Stantec

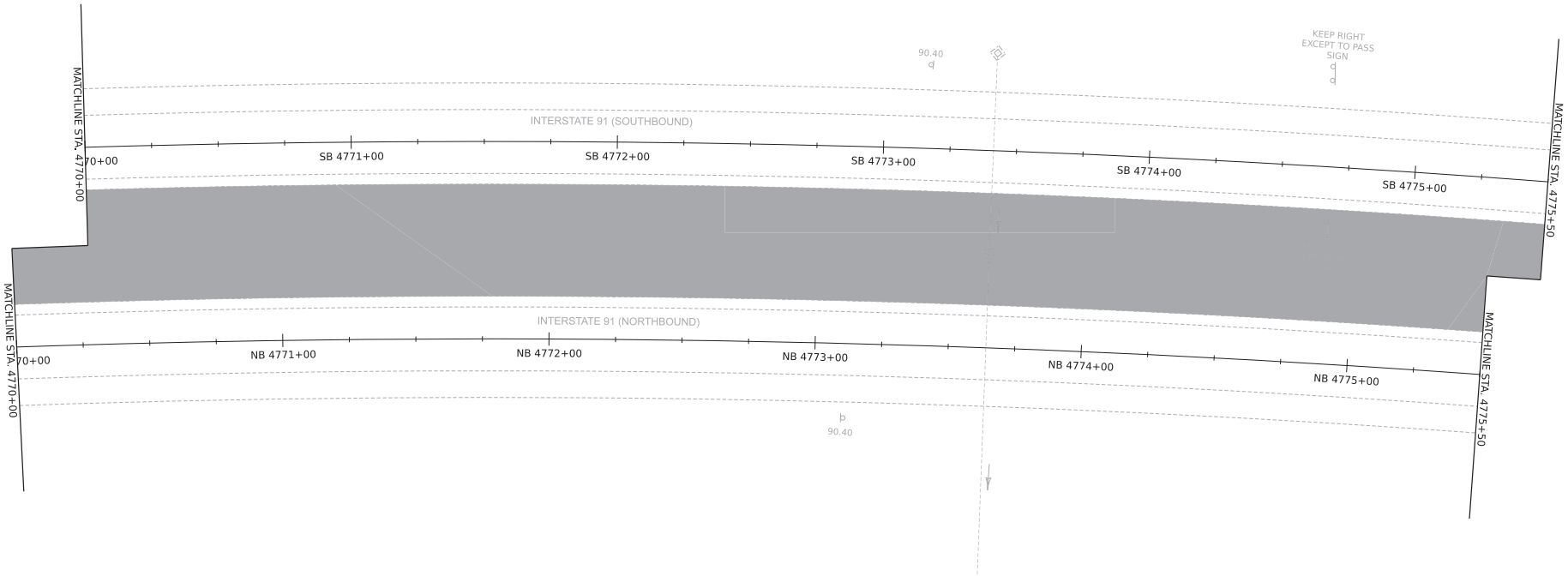
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: C. PETERSON
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 4	SHEET 15 OF 50



0 20 40
SCALE IN FEET

Stantec

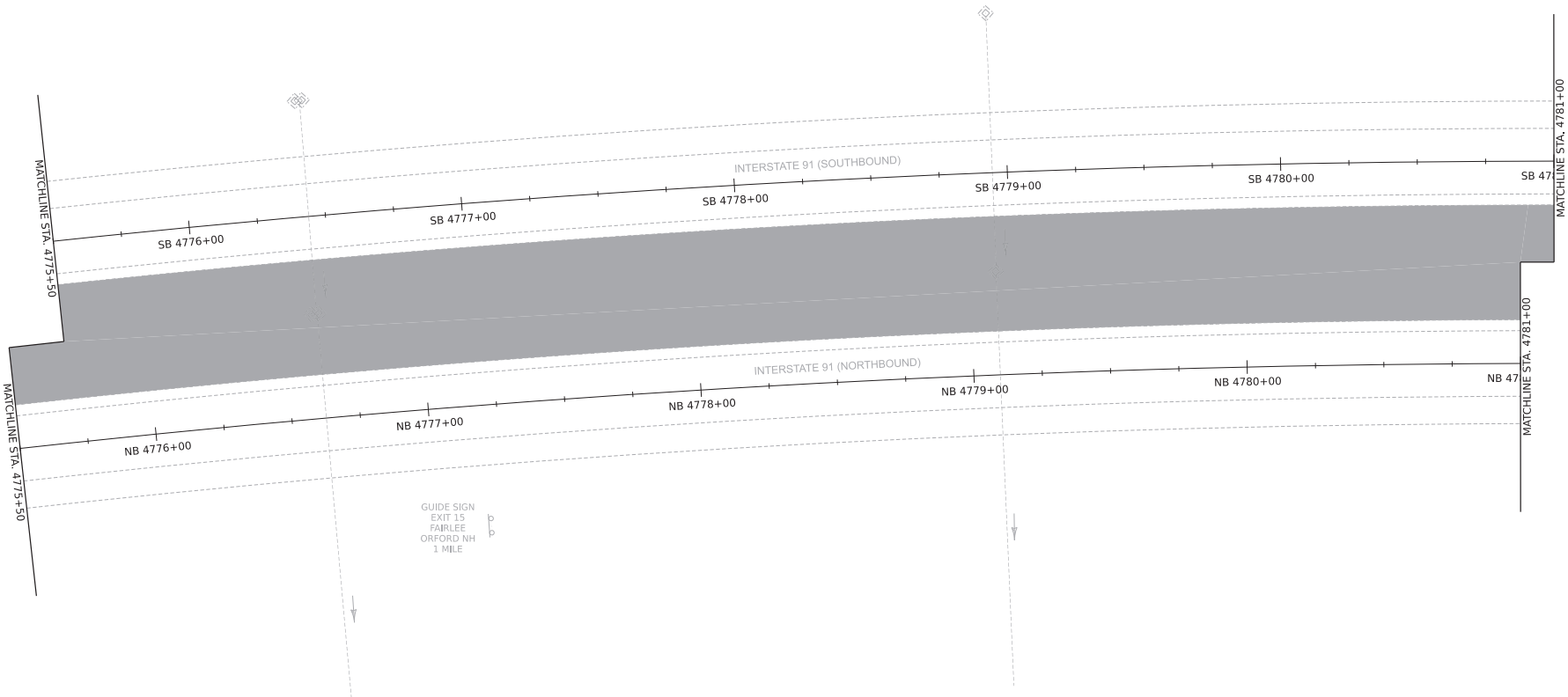
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 5	SHEET 16 OF 50



0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY:
DESIGNED BY: K. RICHARDSON	CHECKED BY:
EARTH DISTURBANCE SHEET 6	SHEET 17 OF 50



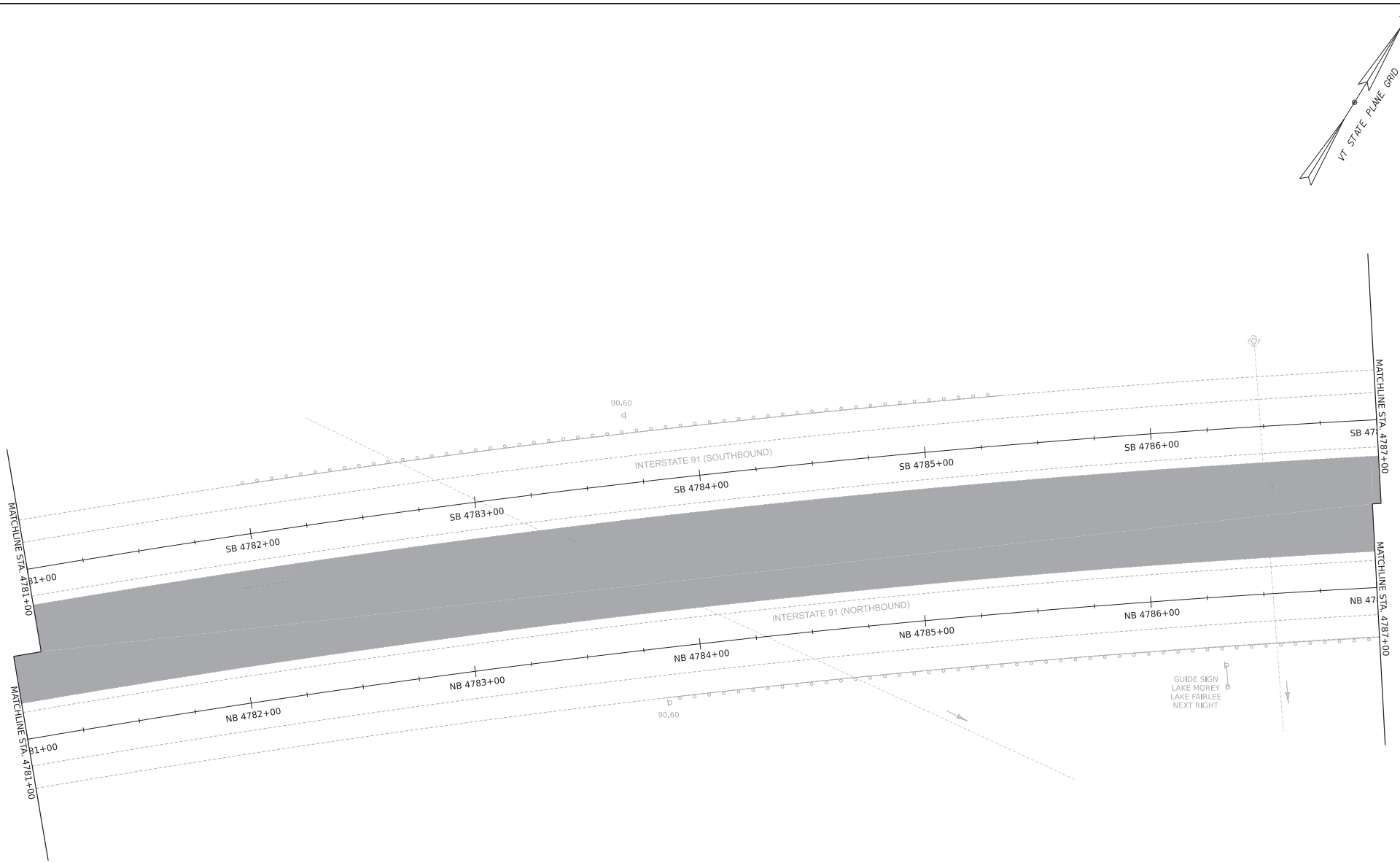
0 20 40
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EARTH DISTURBANCE SHEET 7

PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 18 OF 50



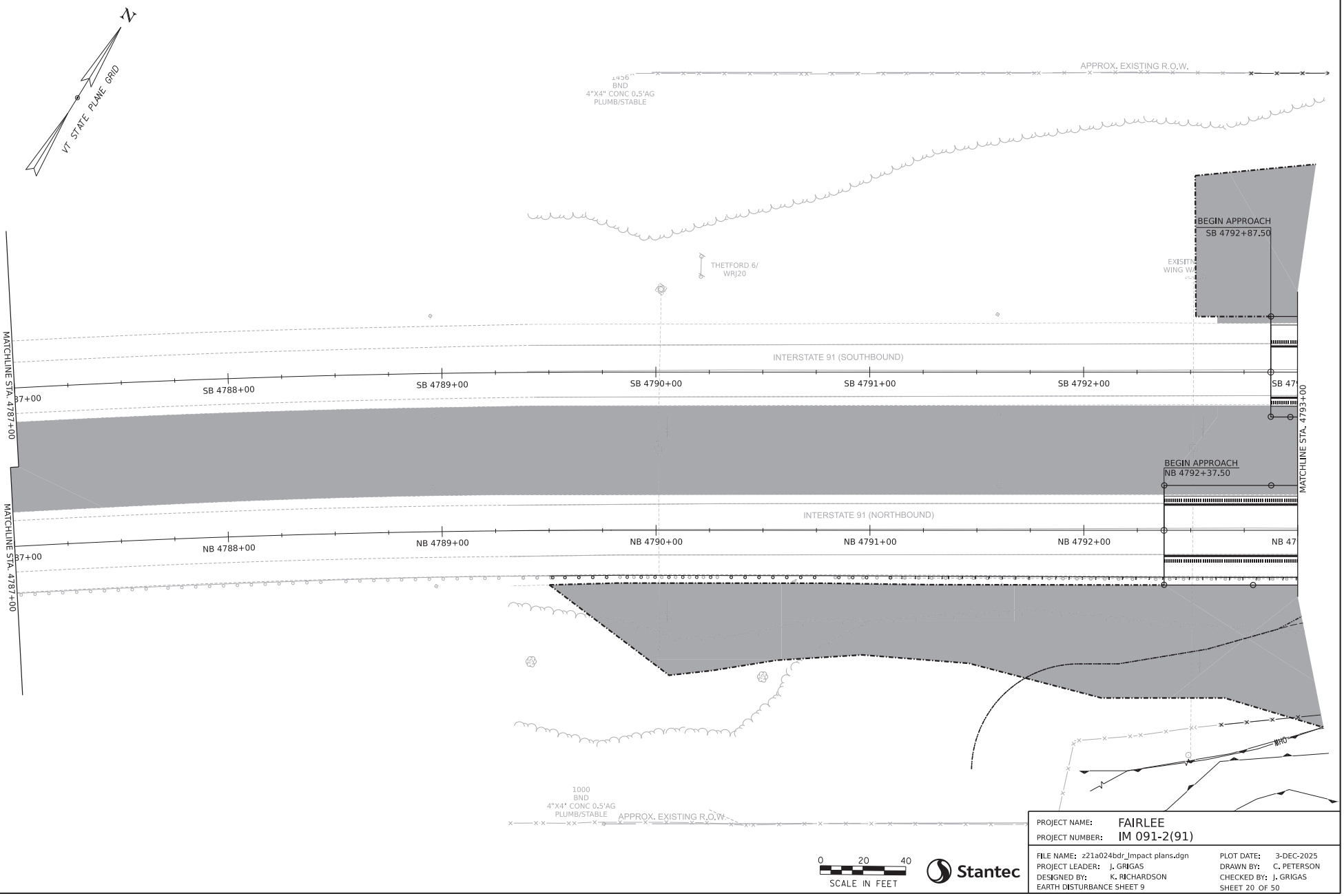
0 20 40
SCALE IN FEET

Stantec

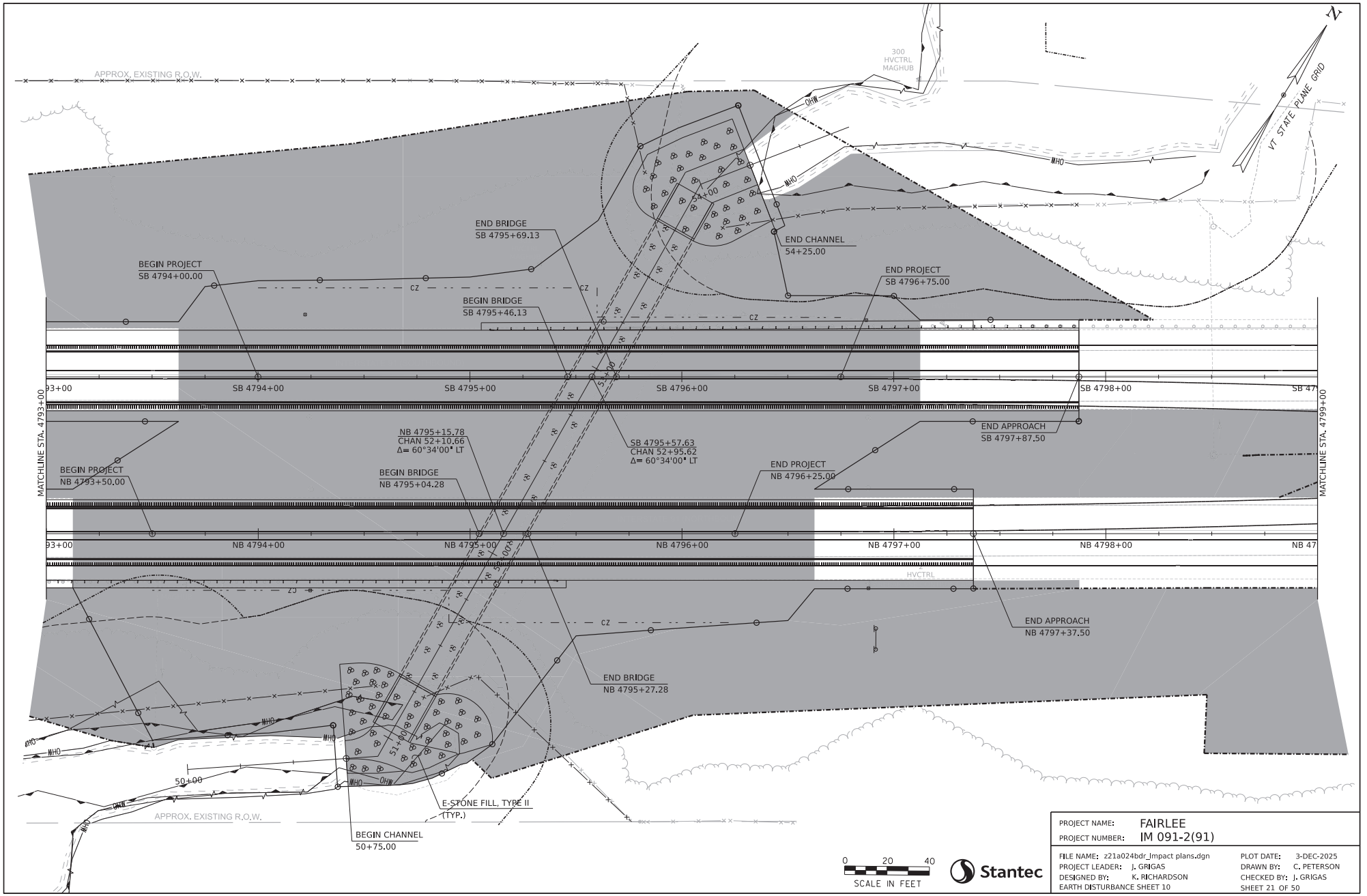
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

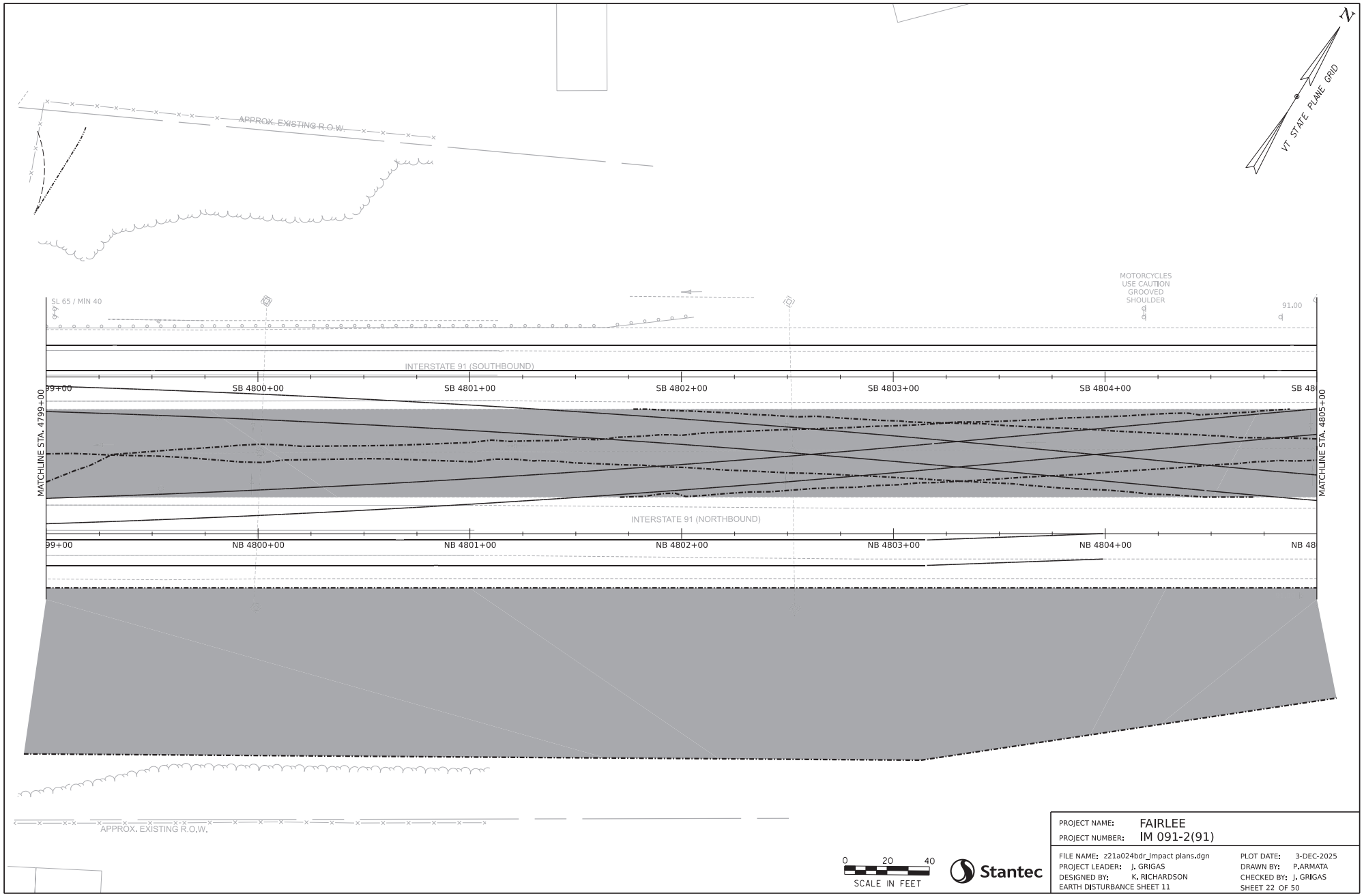
FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EARTH DISTURBANCE SHEET 8

PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 19 OF 50



PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: C. PETERSON
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 9	SHEET 20 OF 50

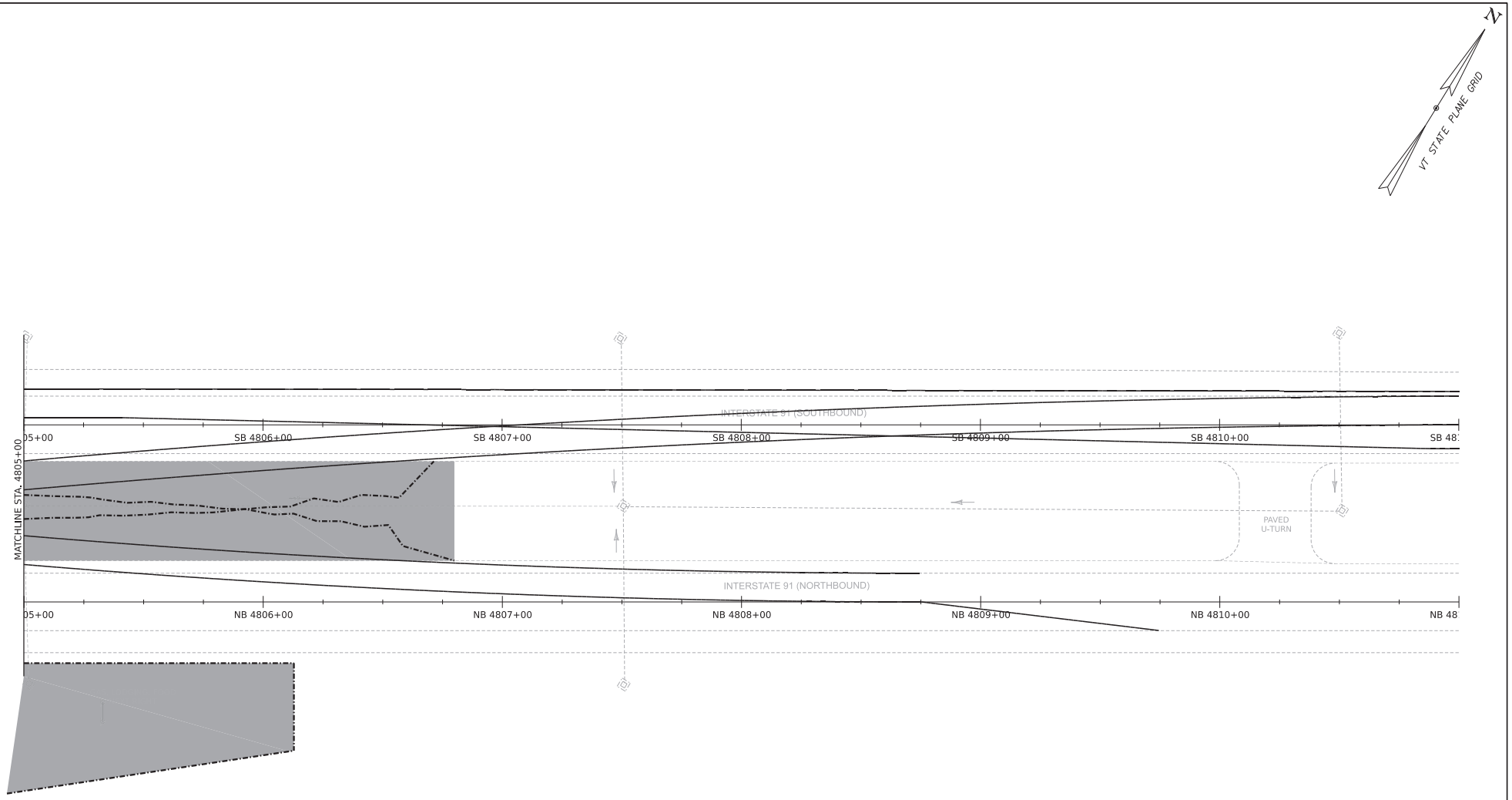

APPROX. EXISTING R.O.W.
300
HVCTRL
MAGHUB
OHW
MHO
VT STATE PLANE GRID
END BRIDGE
SB 4795+69.13
END CHANNEL
54+25.00
BEGIN PROJECT
SB 4794+00.00
END PROJECT
SB 4796+75.00
BEGIN BRIDGE
SB 4795+46.13
CZ
51+00
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
MATCHLINE STA. 4793+00
MATCHLINE STA. 4799+00
NB 4795+15.78
CHAN 52+10.66
Δ= 60°34'00" LT
SB 4795+57.63
CHAN 52+95.62
Δ= 60°34'00" LT
END APPROACH
SB 4797+87.50
BEGIN PROJECT
NB 4793+50.00
BEGIN BRIDGE
NB 4795+04.28
END PROJECT
NB 4796+25.00
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
HVCTRL
END APPROACH
NB 4797+37.50
END BRIDGE
NB 4795+27.28
50+00
E-STONE FILL, TYPE II
(TYP.)
APPROX. EXISTING R.O.W.
BEGIN CHANNEL
50+75.00
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
EARTH DISTURBANCE SHEET 10
PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 21 OF 50



0 20 40
SCALE IN FEET

Stantec

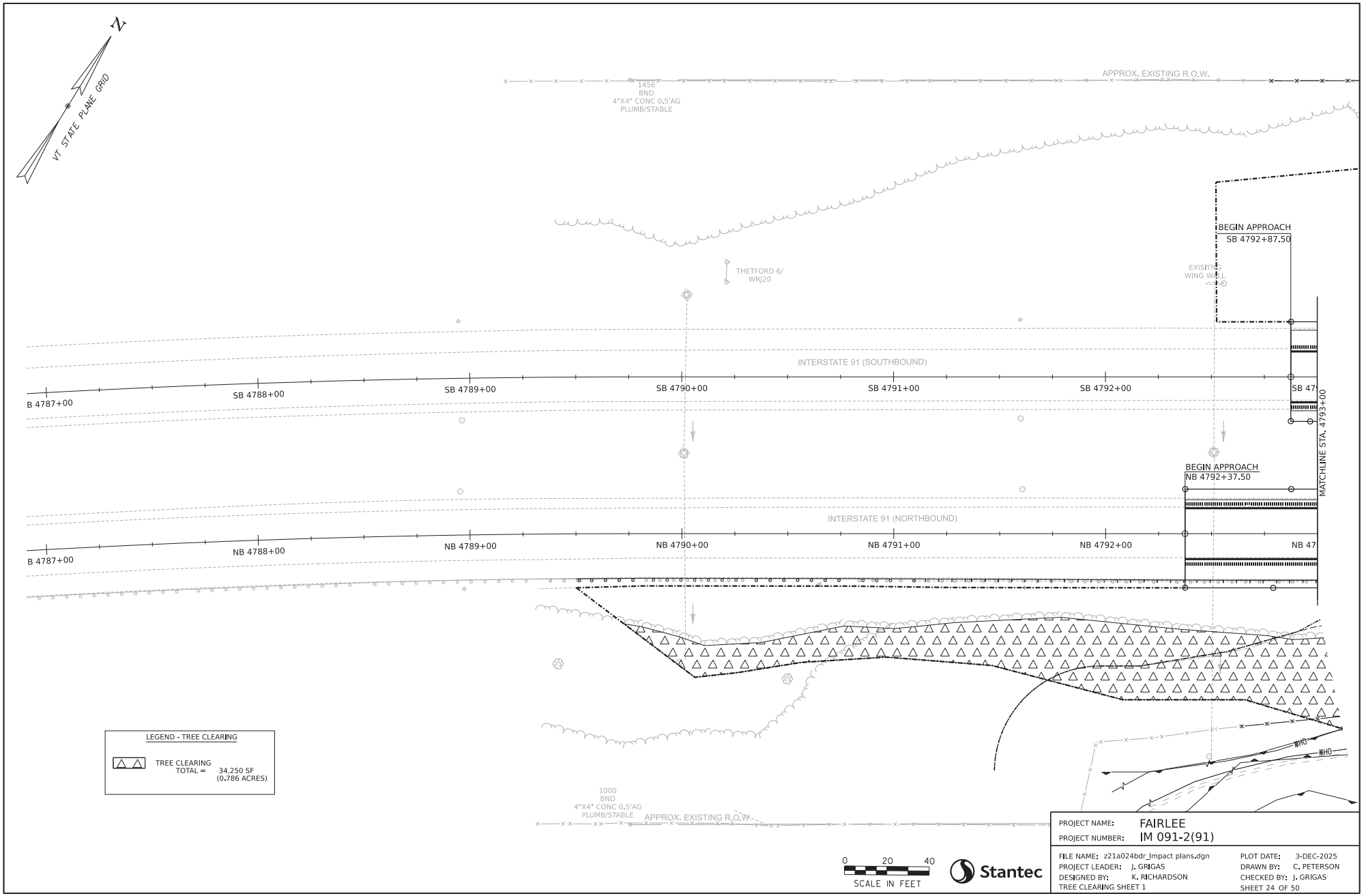
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_lmpact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 11	SHEET 22 OF 50

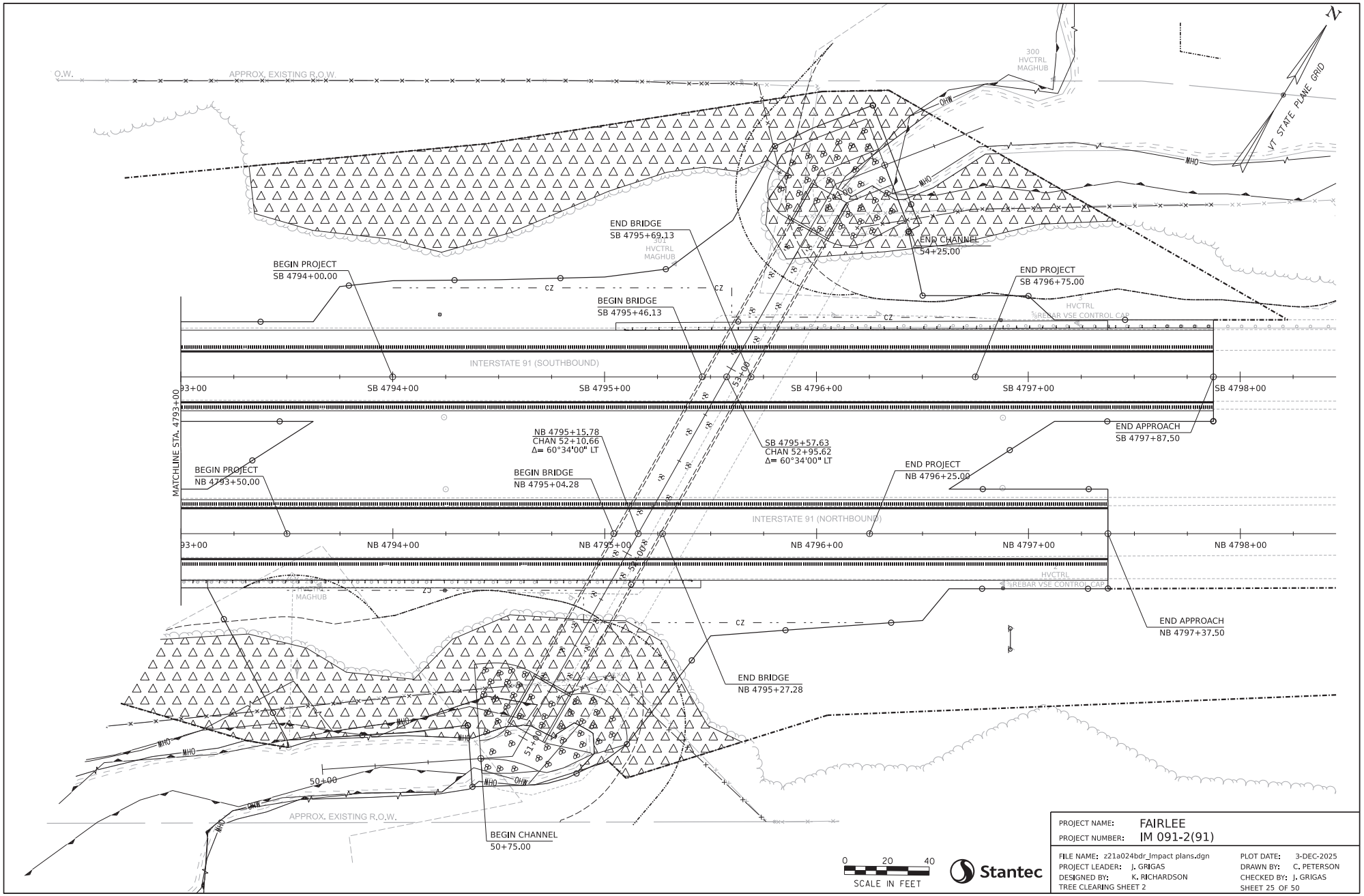


0 20 40
SCALE IN FEET

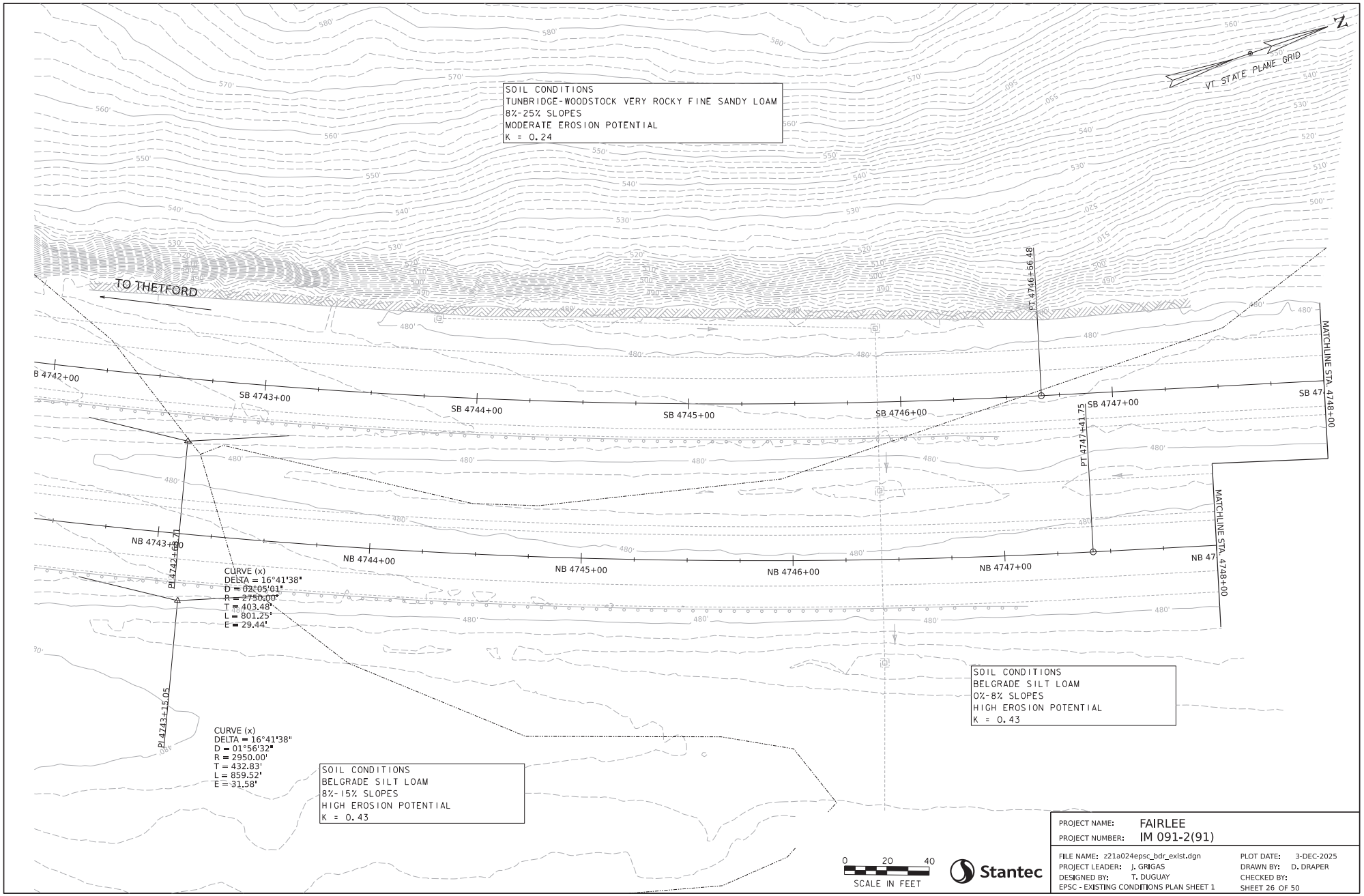
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: P.ARMATA
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
EARTH DISTURBANCE SHEET 12	SHEET 23 OF 50

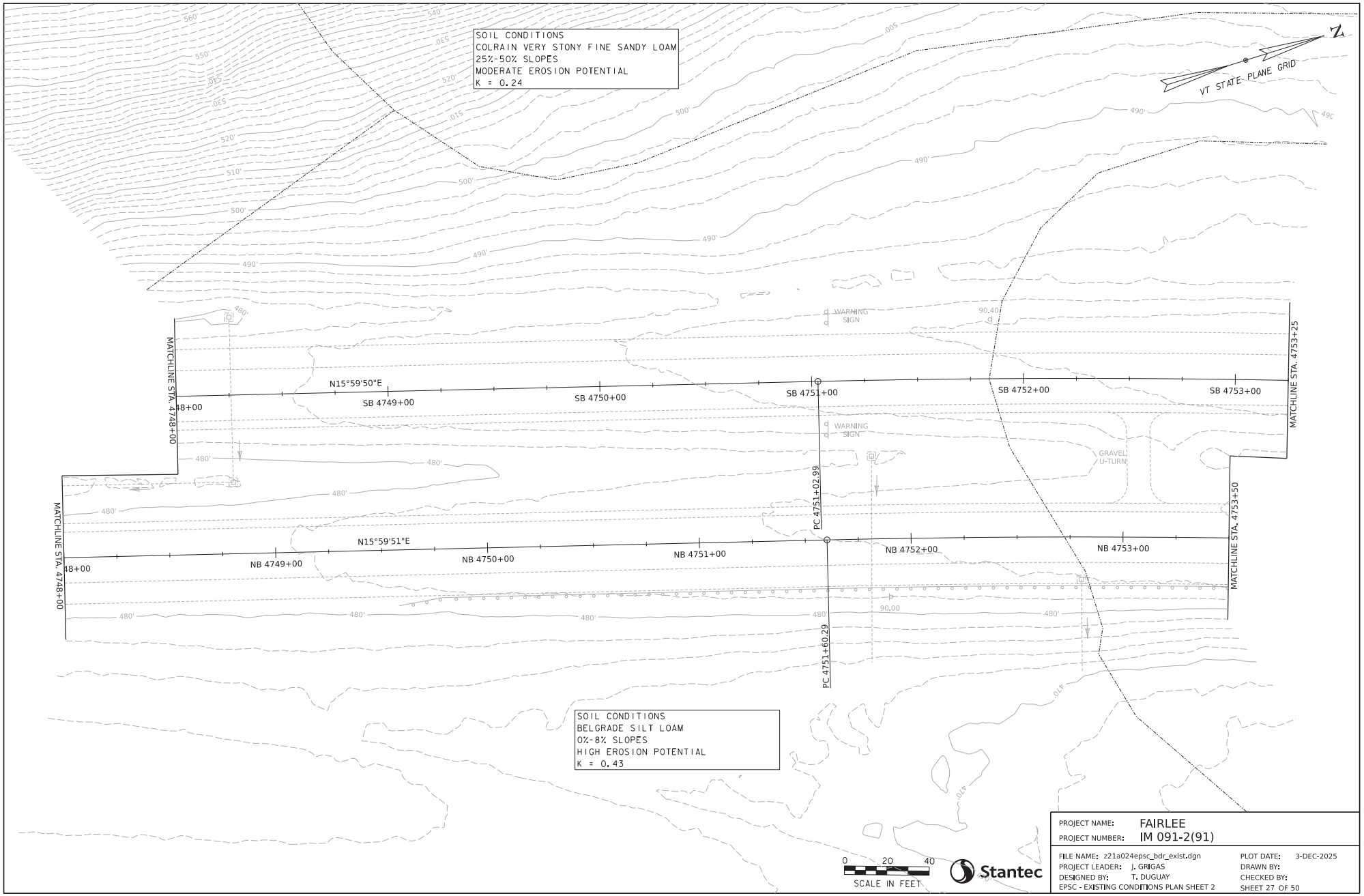

N
VT STATE PLANE GRID
APPROX. EXISTING R.O.W.
1456
BND
4"X4" CONC 0.5'AG
PLUMB/STABLE
THETFORD 6/
WRJ20
EXISITING
WING WALL
BEGIN APPROACH
SB 4792+87.50
INTERSTATE 91 (SOUTHBOUND)
B 4787+00
SB 4788+00
SB 4789+00
SB 4790+00
SB 4791+00
SB 4792+00
SB 47
MATCHLINE STA. 4793+00
BEGIN APPROACH
NB 4792+37.50
INTERSTATE 91 (NORTHBOUND)
B 4787+00
NB 4788+00
NB 4789+00
NB 4790+00
NB 4791+00
NB 4792+00
NB 47
MHO
MHO
1000
BND
4"X4" CONC 0.5'AG
PLUMB/STABLE
APPROX. EXISTING R.O.W.
LEGEND - TREE CLEARING
TREE CLEARING
TOTAL = 34,250 SF
(0.786 ACRES)
0
20
40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024bdr_lmpact plans.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: K. RICHARDSON
TREE CLEARING SHEET 1
PLOT DATE: 3-DEC-2025
DRAWN BY: C. PETERSON
CHECKED BY: J. GRIGAS
SHEET 24 OF 50



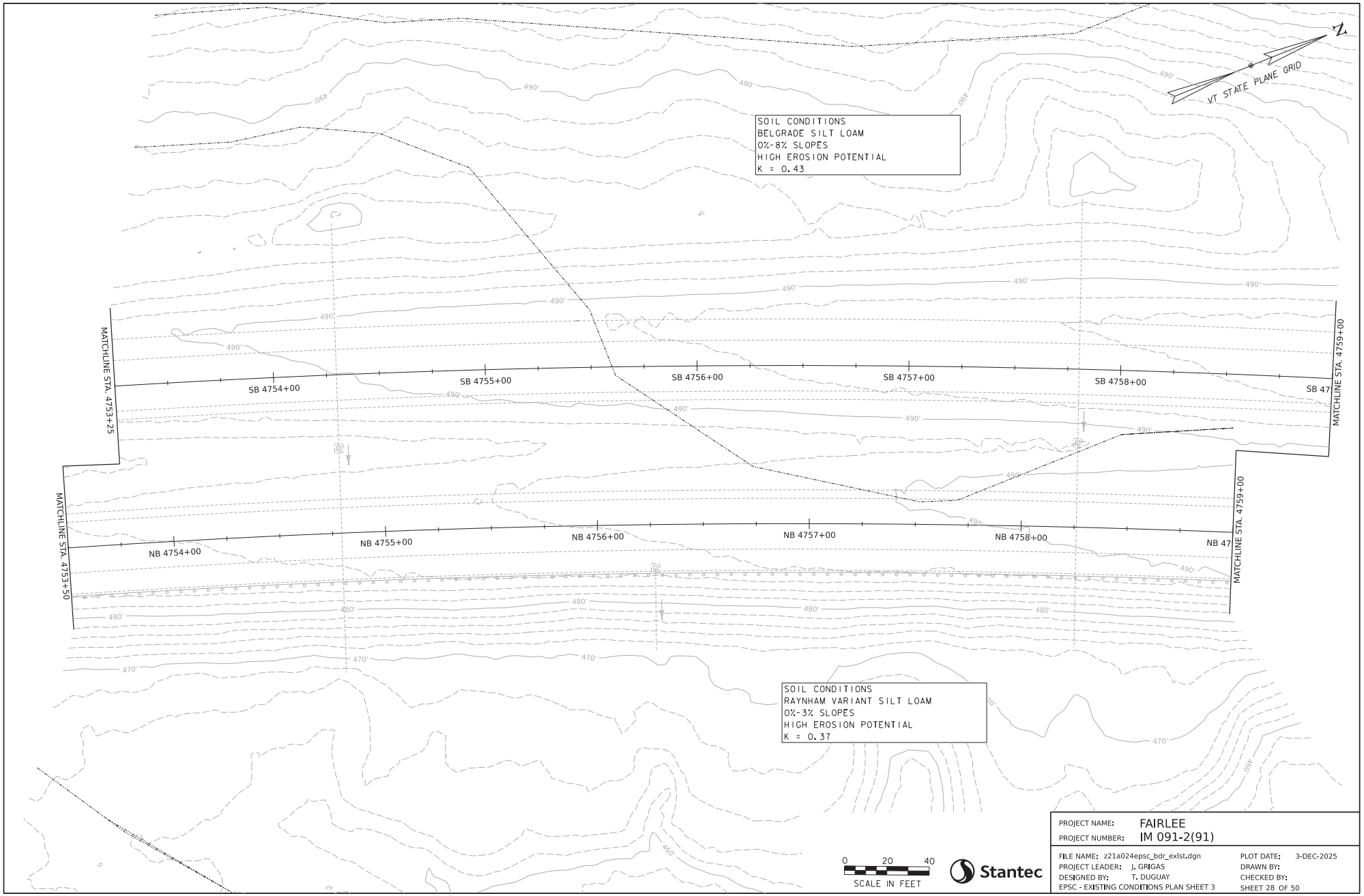
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024bdr_Impact plans.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: C. PETERSON
DESIGNED BY: K. RICHARDSON	CHECKED BY: J. GRIGAS
TREE CLEARING SHEET 2	SHEET 25 OF 50



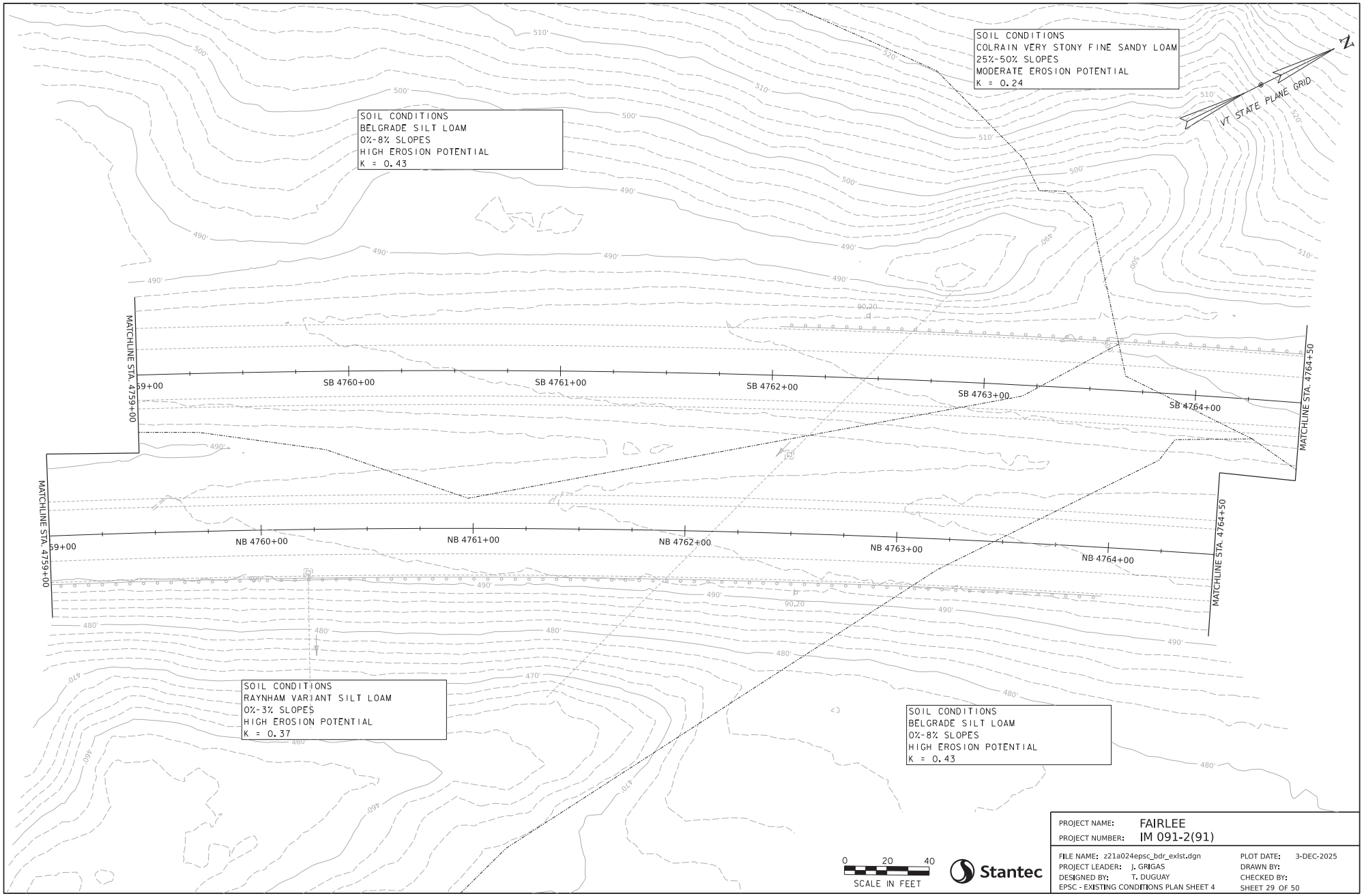
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY:
EPSC - EXISTING CONDITIONS PLAN SHEET 1	SHEET 26 OF 50



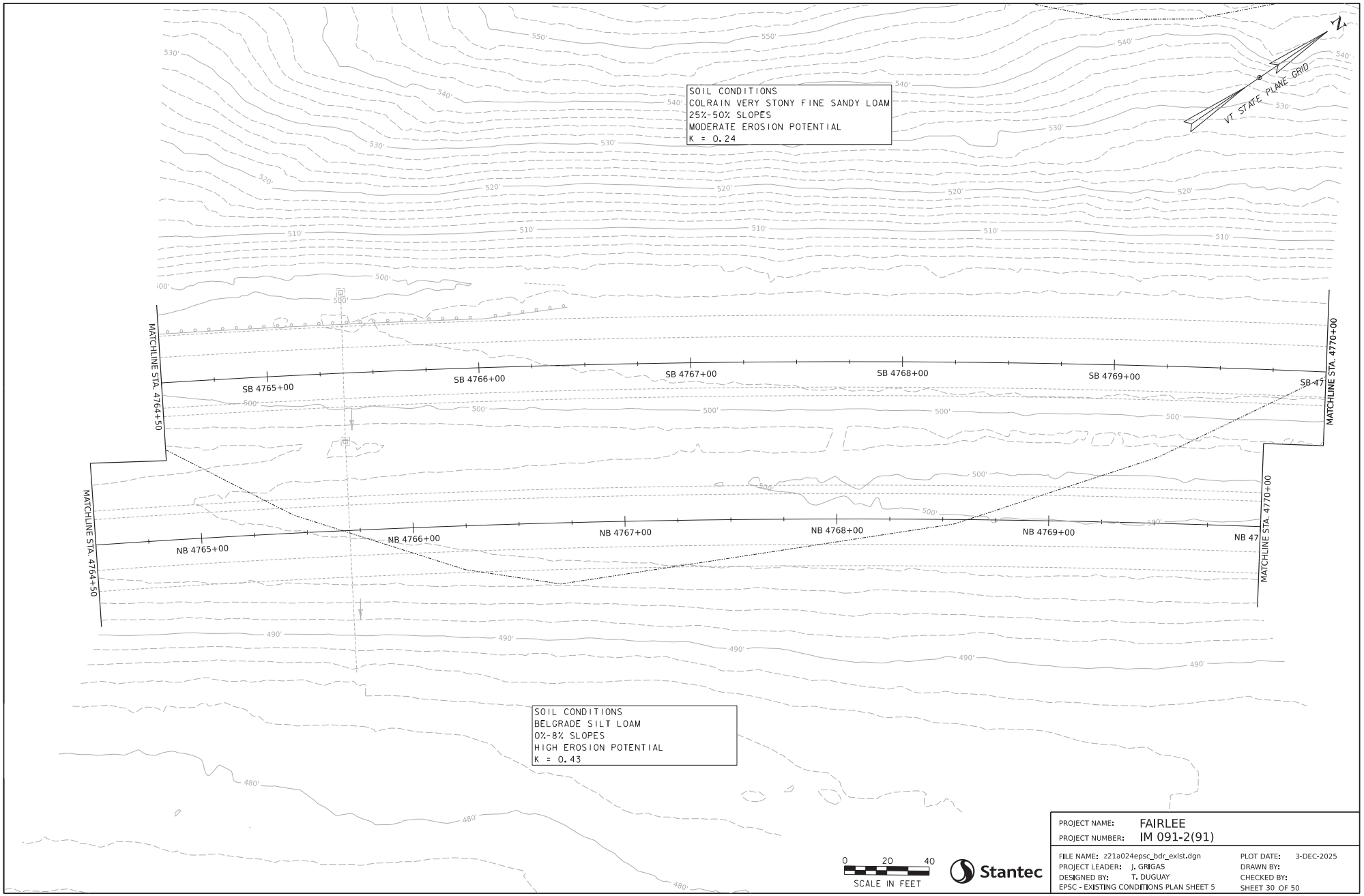
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY:
DESIGNED BY: T. DUGUAY	CHECKED BY:
EPSC - EXISTING CONDITIONS PLAN SHEET 2	SHEET 27 OF 50



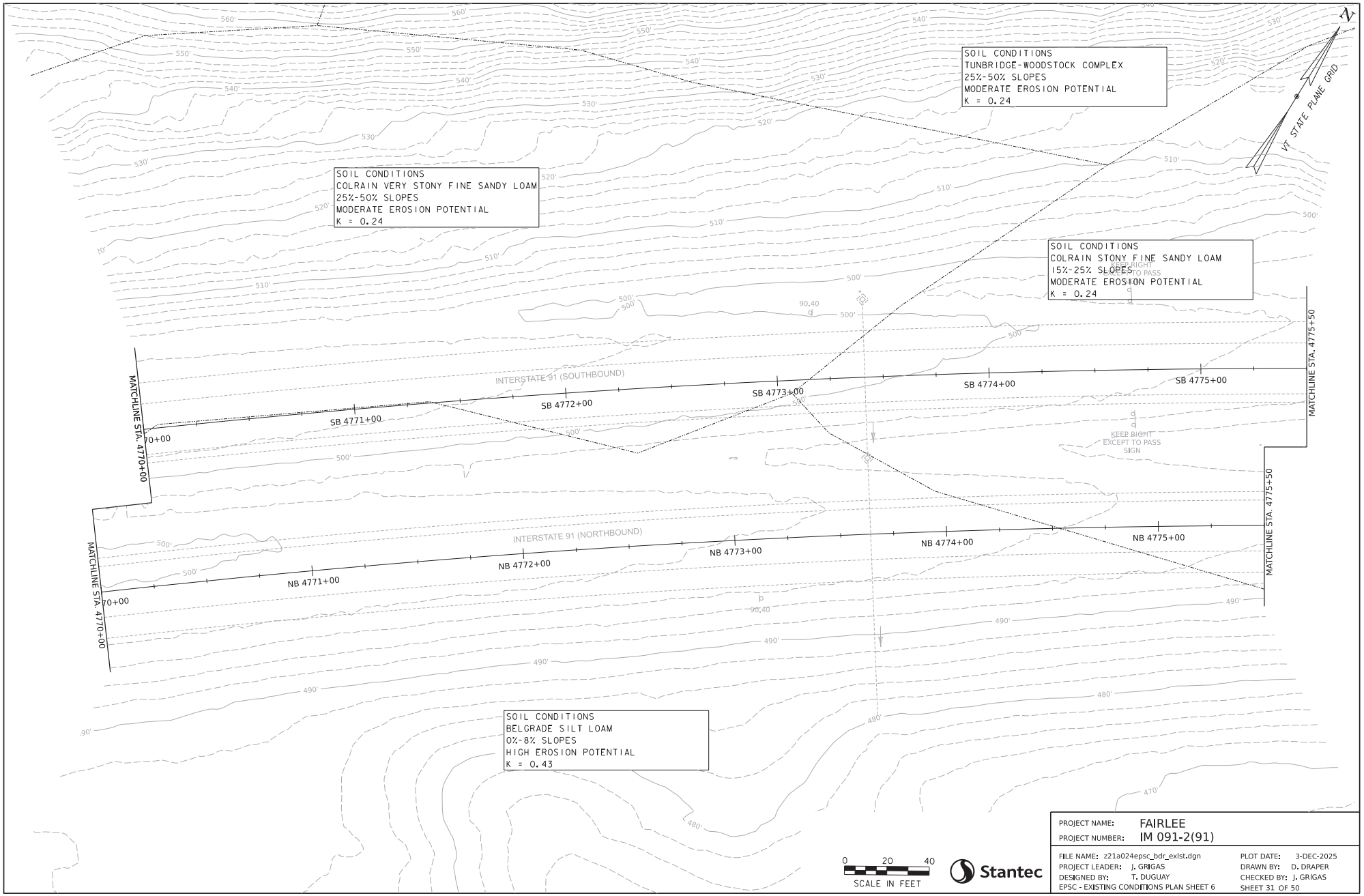
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY:
DESIGNED BY: T. DUGUAY	CHECKED BY:
EPSC - EXISTING CONDITIONS PLAN SHEET 3	SHEET 28 OF 50

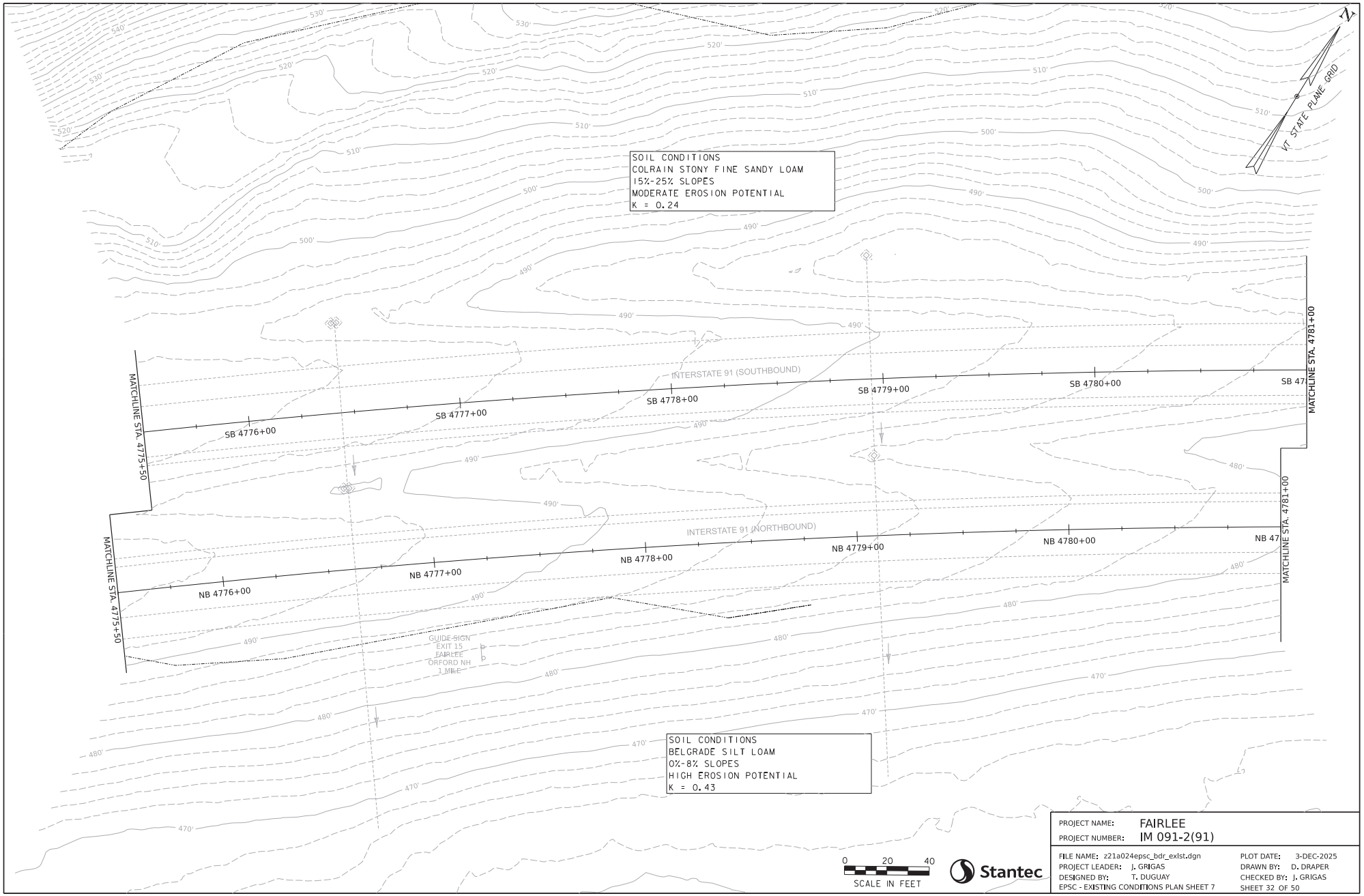


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY:
DESIGNED BY: T. DUGUAY	CHECKED BY:
EPSC - EXISTING CONDITIONS PLAN SHEET 4	SHEET 29 OF 50

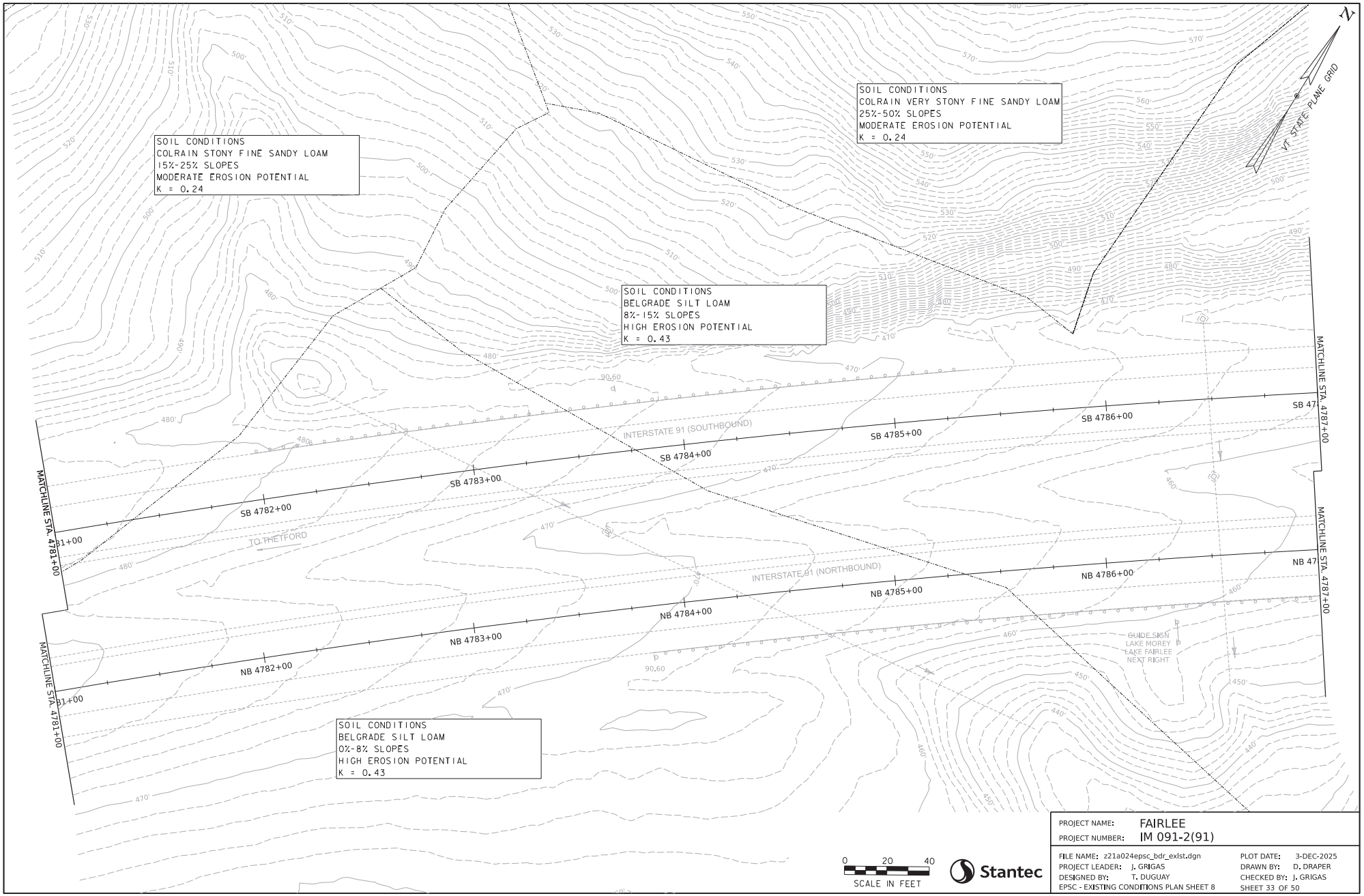


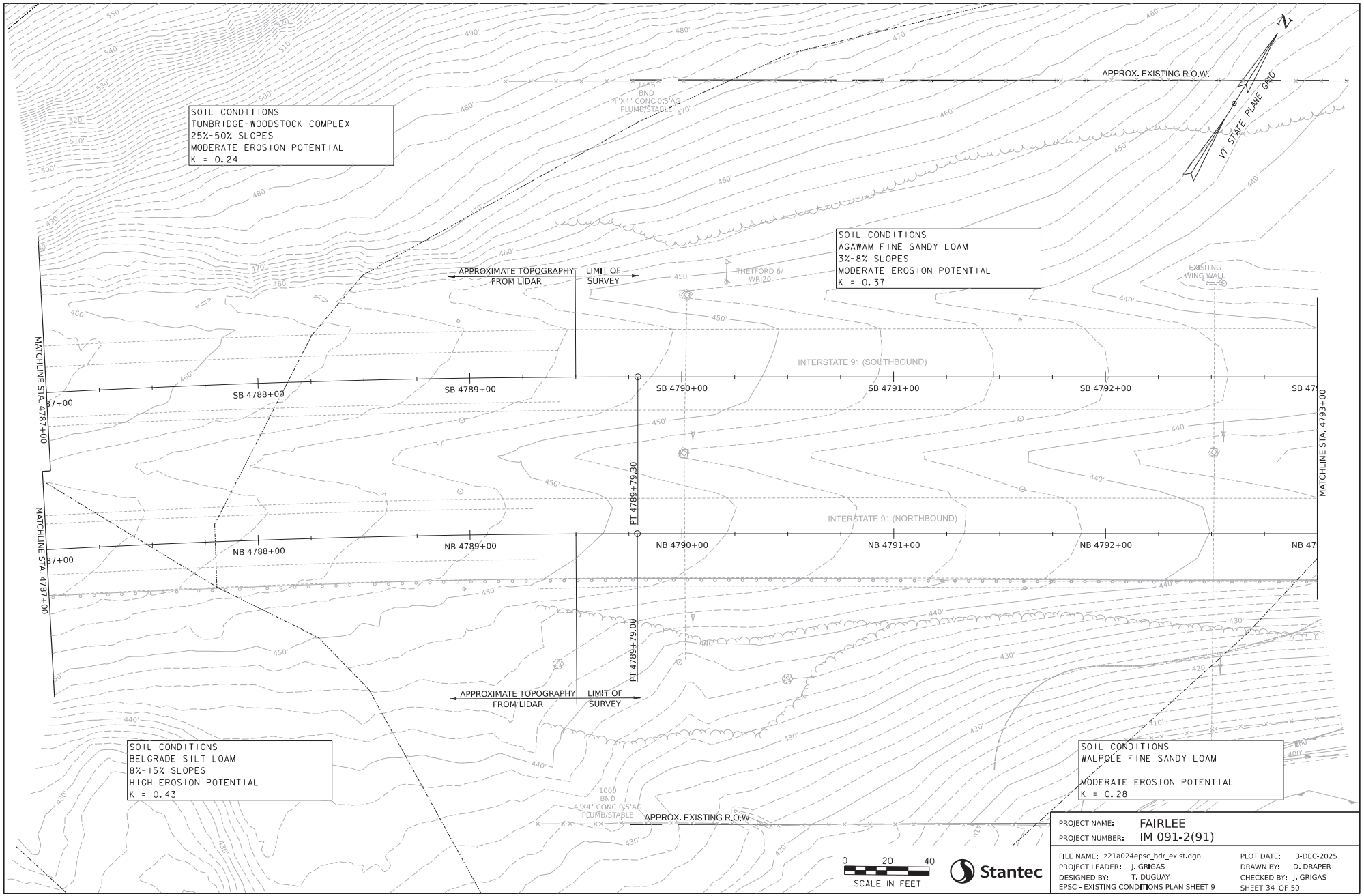
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY:
DESIGNED BY: T. DUGUAY	CHECKED BY:
EPSC - EXISTING CONDITIONS PLAN SHEET 5	SHEET 30 OF 50


SOIL CONDITIONS
TUNBRIDGE-WOODSTOCK COMPLEX
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
COLRAIN VERY STONY FINE SANDY LOAM
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
COLRAIN STONY FINE SANDY LOAM
15%-25% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
VT STATE PLANE GRID
INTERSTATE 91 (SOUTHBOUND)
INTERSTATE 91 (NORTHBOUND)
SB 4771+00
SB 4772+00
SB 4773+00
SB 4774+00
SB 4775+00
NB 4771+00
NB 4772+00
NB 4773+00
NB 4774+00
NB 4775+00
MATCHLINE STA. 4770+00
MATCHLINE STA. 4775+50
KEEP RIGHT EXCEPT TO PASS SIGN
90.40
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - EXISTING CONDITIONS PLAN SHEET 6
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 31 OF 50

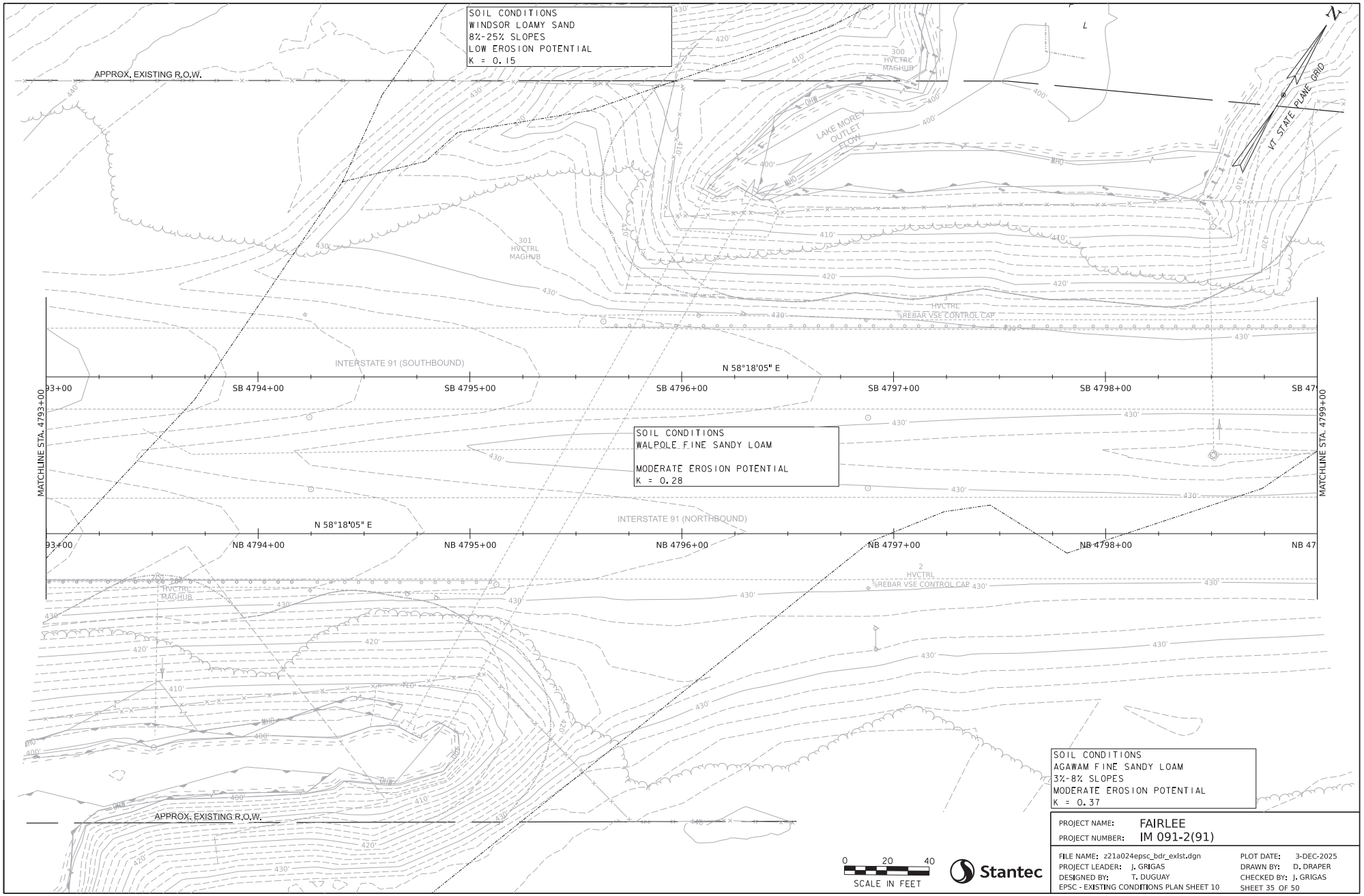


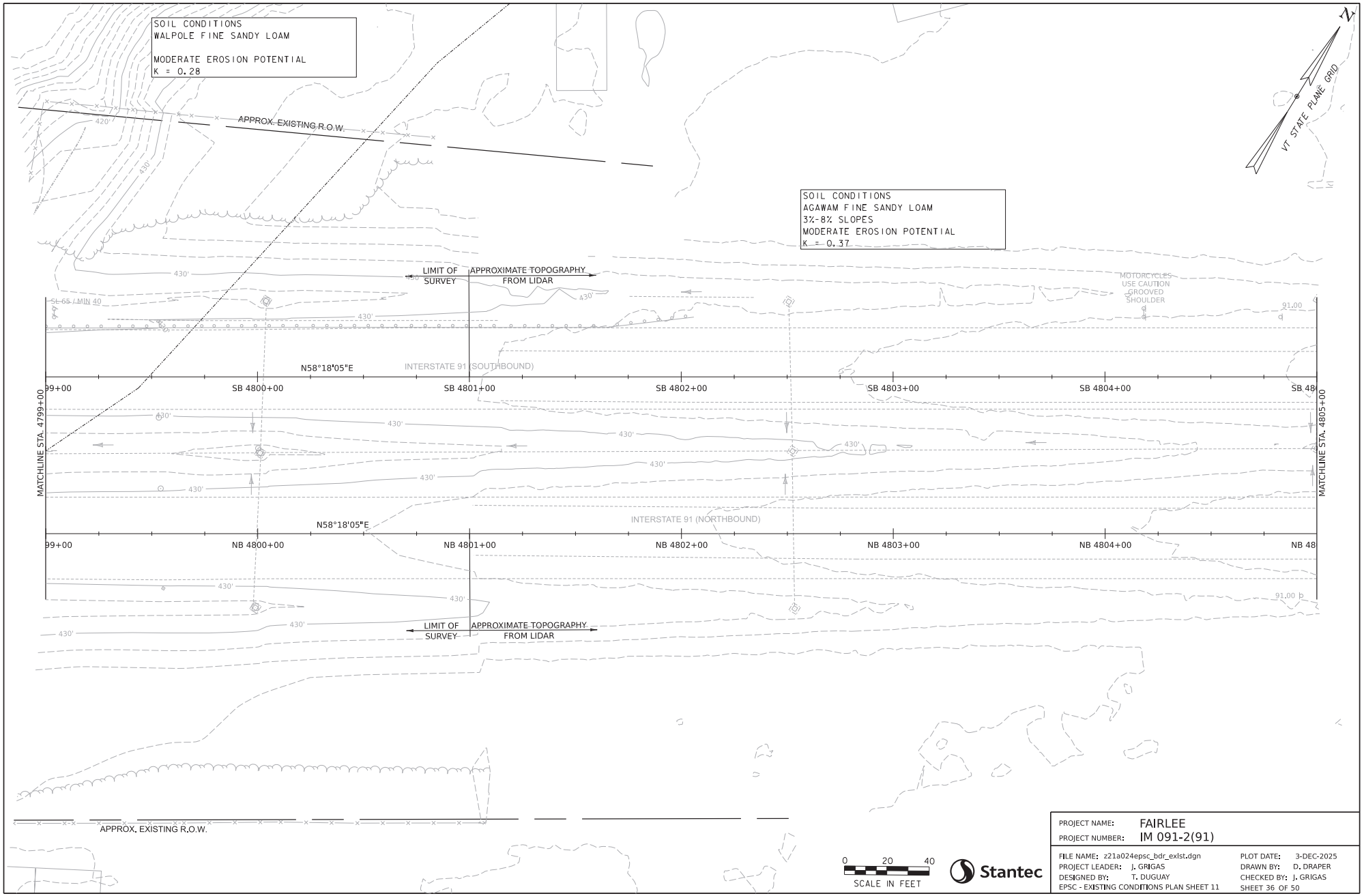
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 7	SHEET 32 OF 50


SOIL CONDITIONS
COLRAIN STONY FINE SANDY LOAM
15%-25% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
COLRAIN VERY STONY FINE SANDY LOAM
25%-50% SLOPES
MODERATE EROSION POTENTIAL
K = 0.24
SOIL CONDITIONS
BELGRADE SILT LOAM
8%-15% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
SOIL CONDITIONS
BELGRADE SILT LOAM
0%-8% SLOPES
HIGH EROSION POTENTIAL
K = 0.43
N
VT STATE PLANE GRID
INTERSTATE 91 (SOUTHBOUND)
INTERSTATE 91 (NORTHBOUND)
SB 4782+00
SB 4783+00
SB 4784+00
SB 4785+00
SB 4786+00
NB 4782+00
NB 4783+00
NB 4784+00
NB 4785+00
NB 4786+00
MATCHLINE STA. 4781+00
MATCHLINE STA. 4787+00
TO THETFORD
GUIDESIGN
LAKE MOREY
LAKE FAIRLEE
NEXT RIGHT
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exist.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - EXISTING CONDITIONS PLAN SHEET 8
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 33 OF 50

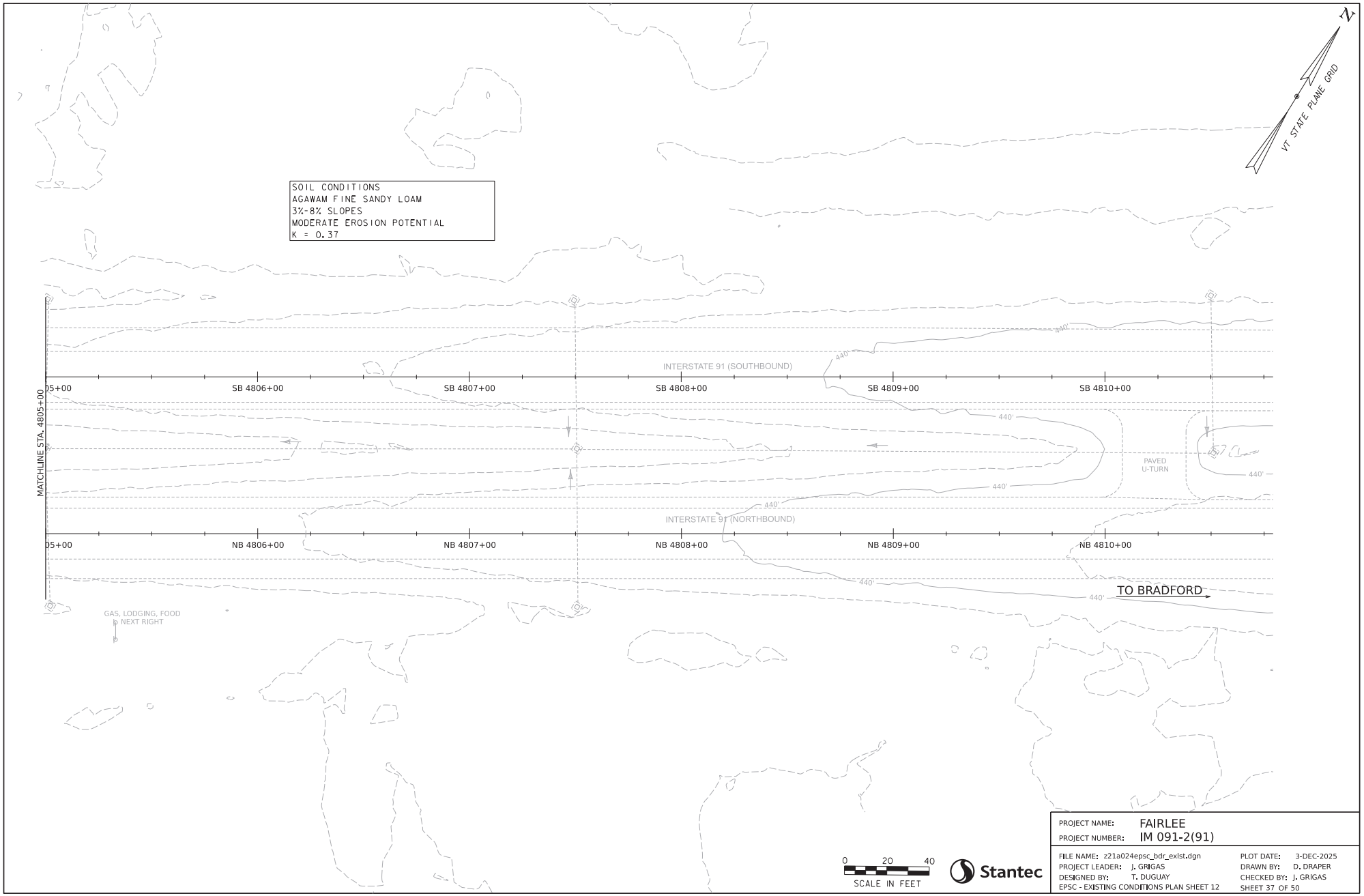


PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 9	SHEET 34 OF 50

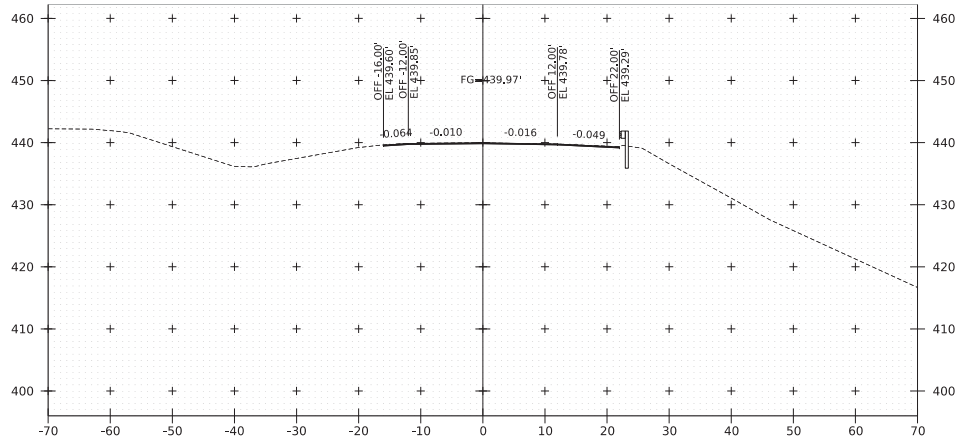

SOIL CONDITIONS
WINDSOR LOAMY SAND
8%-25% SLOPES
LOW EROSION POTENTIAL
K = 0.15
APPROX. EXISTING R.O.W.
300
HVCTRL
MAGHUB
LAKE MOREY
OUTLET
FLOW
VT STATE PLANE GRID
301
HVCTRL
MAGHUB
HVCTRL
5/8REBAR VSE CONTROL CAP
INTERSTATE 91 (SOUTHBOUND)
N 58°18'05" E
SB 4794+00
SB 4795+00
SB 4796+00
SB 4797+00
SB 4798+00
MATCHLINE STA. 4793+00
MATCHLINE STA. 4799+00
SOIL CONDITIONS
WALPOLE FINE SANDY LOAM
MODERATE EROSION POTENTIAL
K = 0.28
INTERSTATE 91 (NORTHBOUND)
N 58°18'05" E
NB 4794+00
NB 4795+00
NB 4796+00
NB 4797+00
NB 4798+00
2
HVCTRL
5/8REBAR VSE CONTROL CAP
HVCTRL
MAGHUB
APPROX. EXISTING R.O.W.
SOIL CONDITIONS
AGAWAM FINE SANDY LOAM
3%-8% SLOPES
MODERATE EROSION POTENTIAL
K = 0.37
0 20 40
SCALE IN FEET
Stantec
PROJECT NAME: FAIRLEE
PROJECT NUMBER: IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn
PROJECT LEADER: J. GRIGAS
DESIGNED BY: T. DUGUAY
EPSC - EXISTING CONDITIONS PLAN SHEET 10
PLOT DATE: 3-DEC-2025
DRAWN BY: D. DRAPER
CHECKED BY: J. GRIGAS
SHEET 35 OF 50



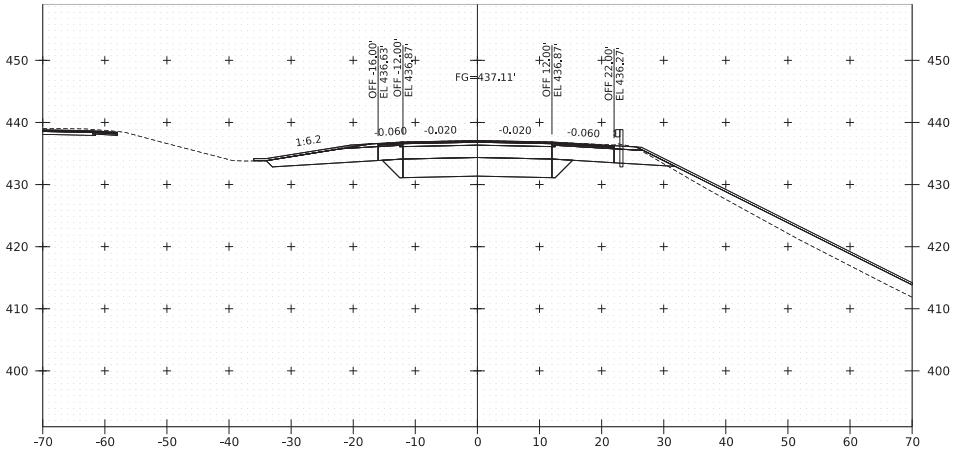
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 11	SHEET 36 OF 50



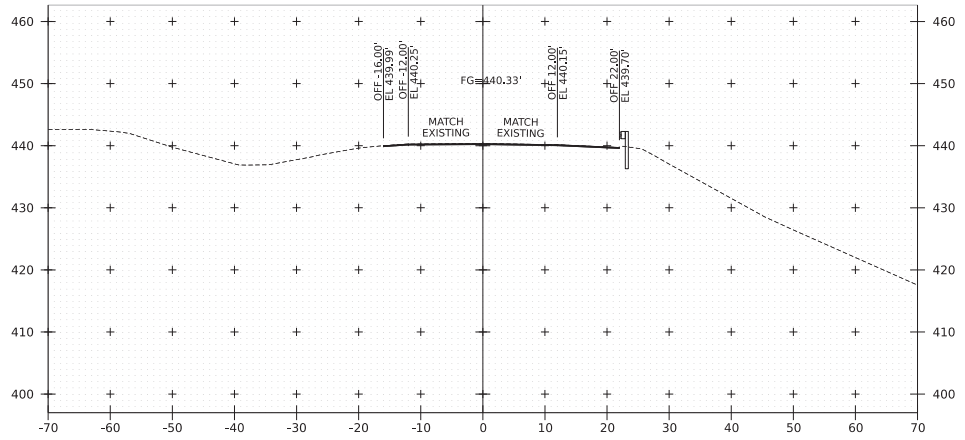
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024epsc_bdr_exlst.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: T. DUGUAY	CHECKED BY: J. GRIGAS
EPSC - EXISTING CONDITIONS PLAN SHEET 12	SHEET 37 OF 50



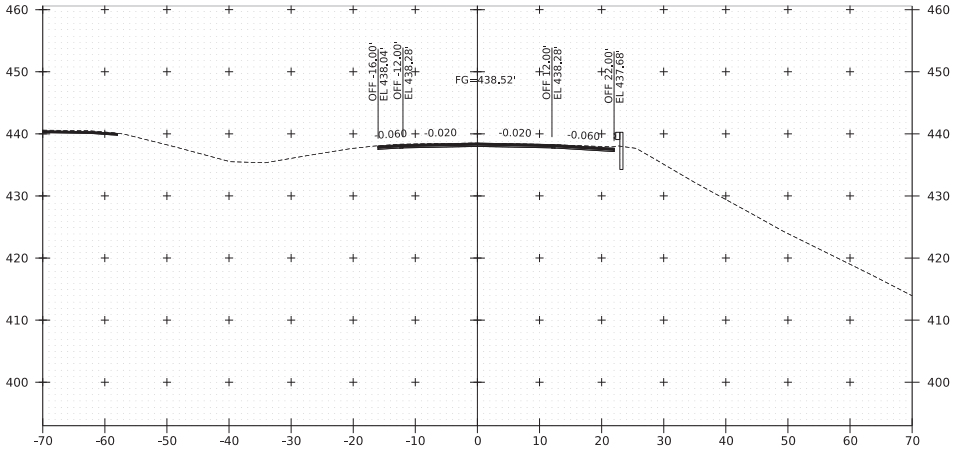
NB 4792+50



NB 4793+50
BEGIN PROJECT



NB 4792+37.50
BEGIN APPROACH

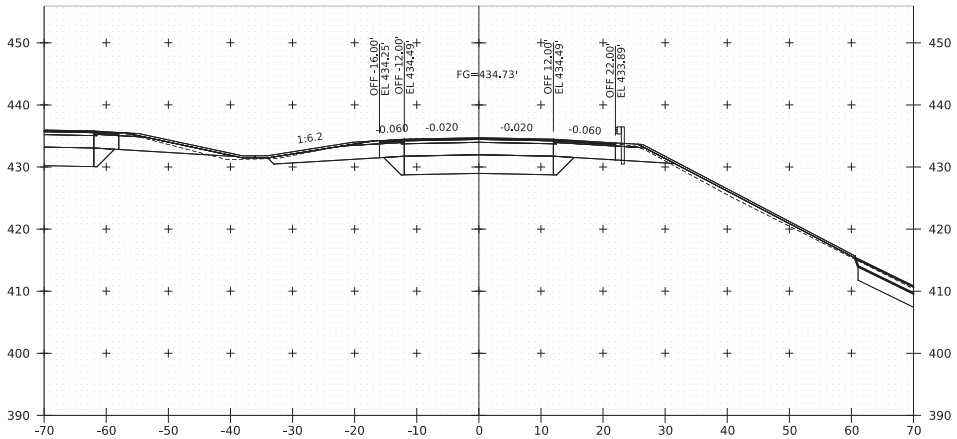


NB 4793+00

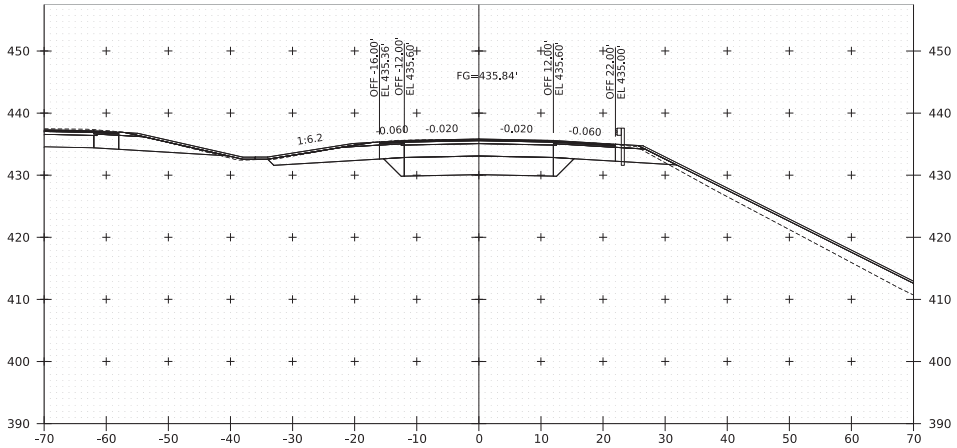
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SCALE IN FEET

Stantec

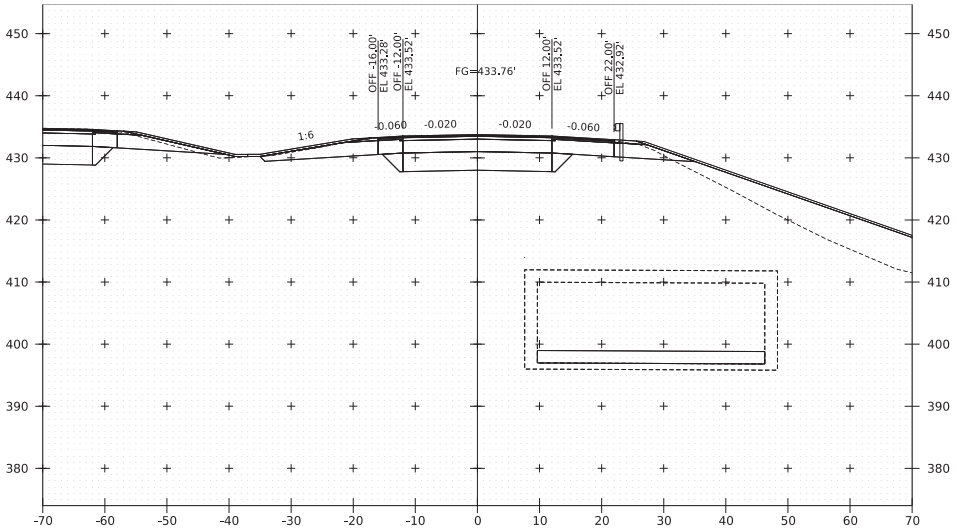
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 1	SHEET 38 OF 50



NB 4794+50



NB 4794+00

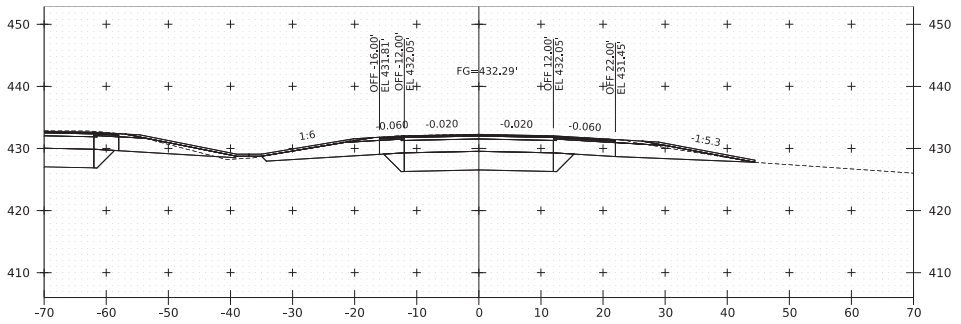


NB 4795+00

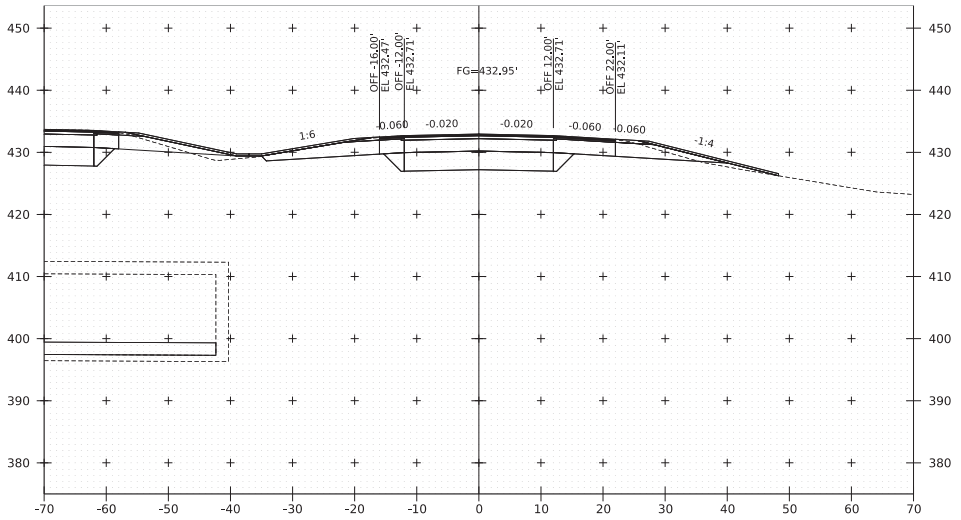
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SCALE IN FEET

Stantec

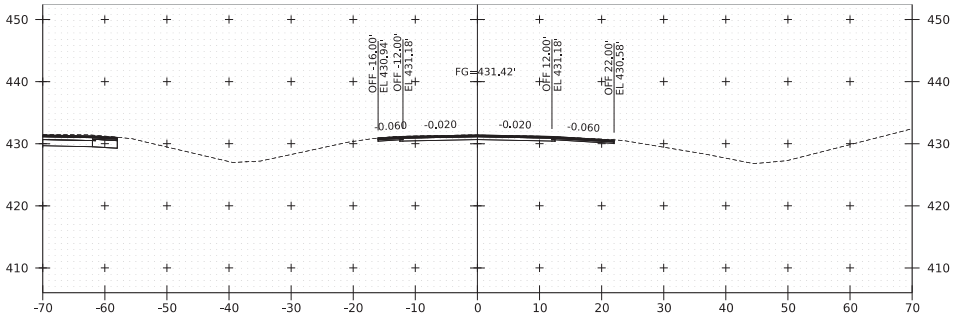
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 2	SHEET 39 OF 50



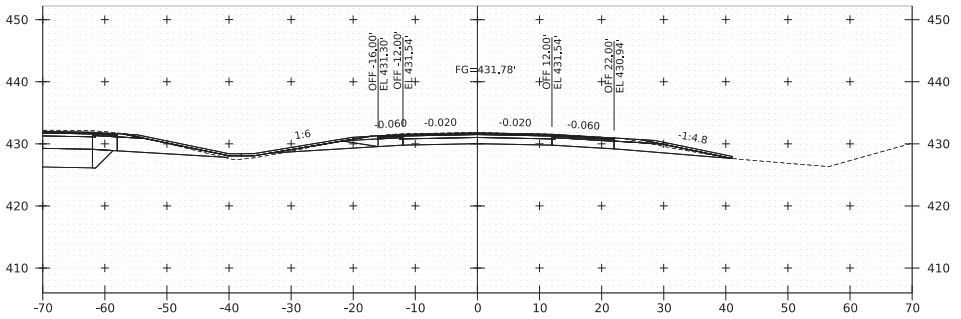
NB 4796+00



NB 4795+50



NB 4797+00



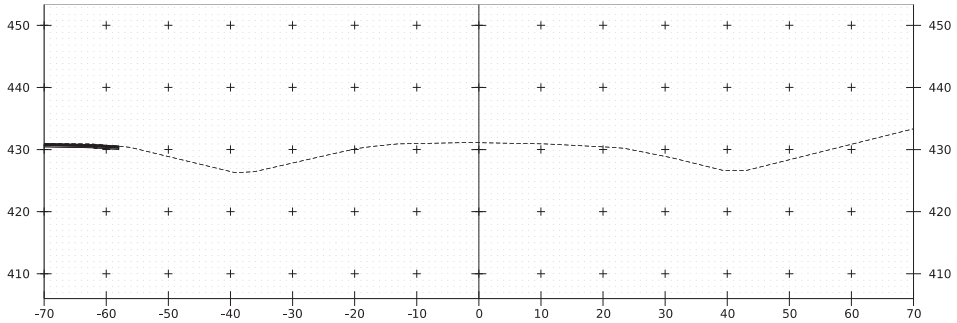
NB 4796+50

END PROJECT - NB 4796+25

0 10 20
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 3	SHEET 40 OF 50



NB 4797+50

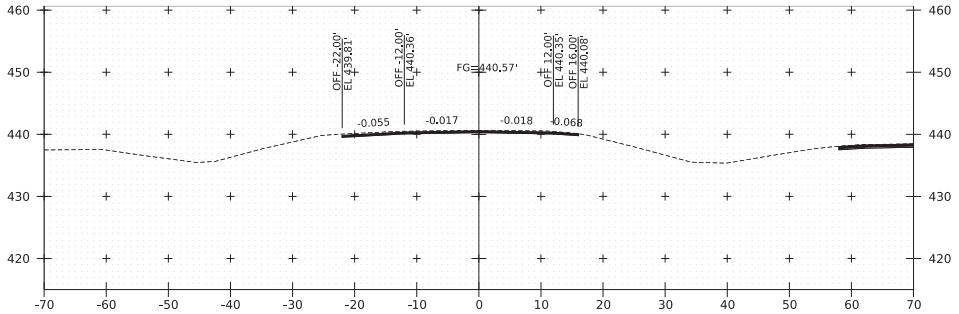
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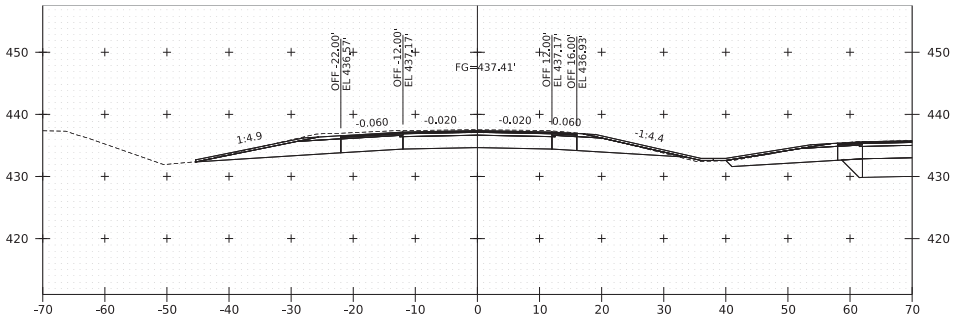
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Stantec

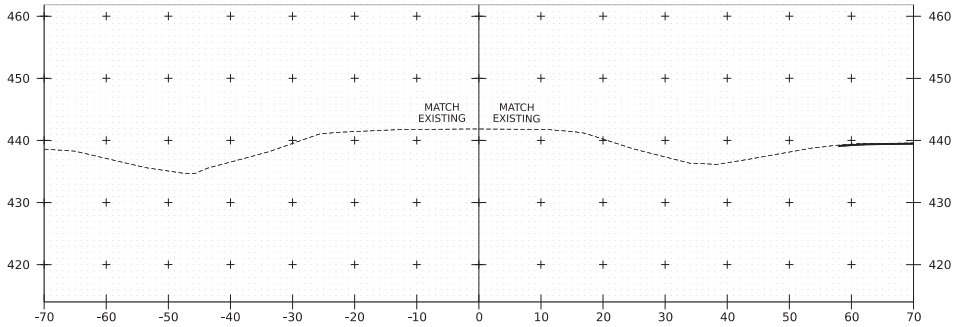
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_NB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 NB XS SHEET 4	SHEET 41 OF 50



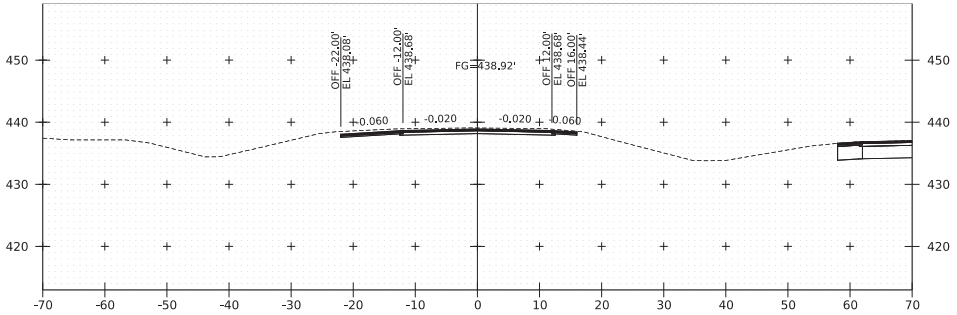
SB 4793+00



SB 4794+00
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SB 4792+87.50
BEGIN APPROACH

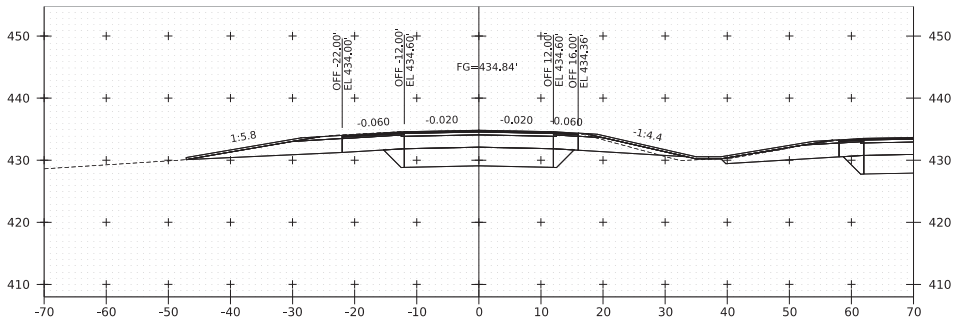


SB 4793+50

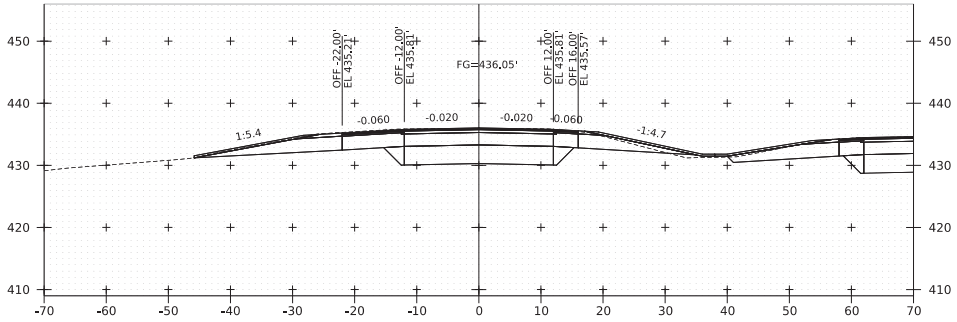
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SCALE IN FEET

Stantec

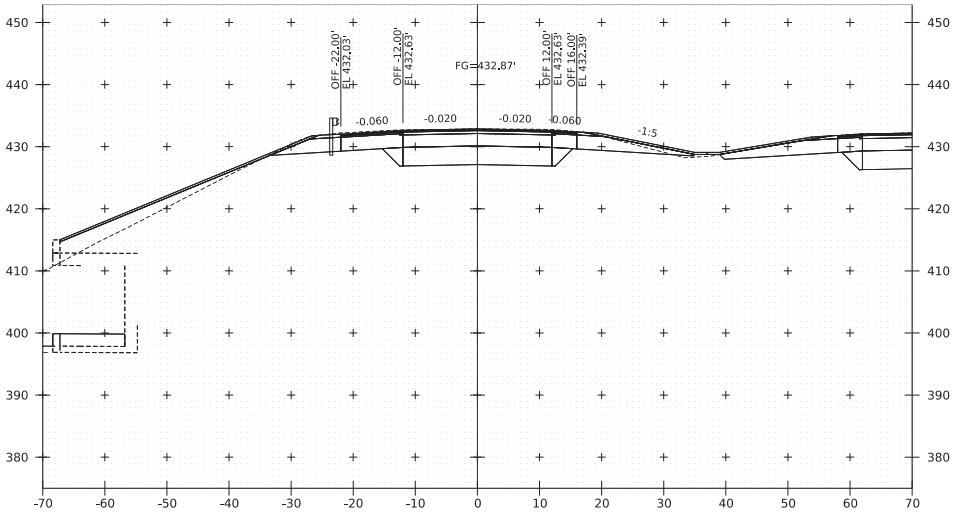
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PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_SB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 SB XS SHEET 1	SHEET 42 OF 50



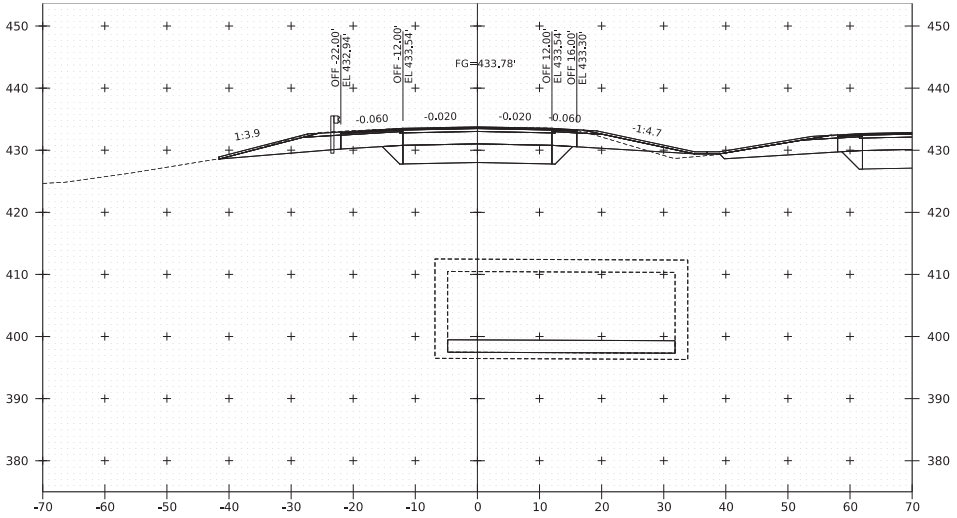
SB 4795+00



SB 4794+50



SB 4796+00

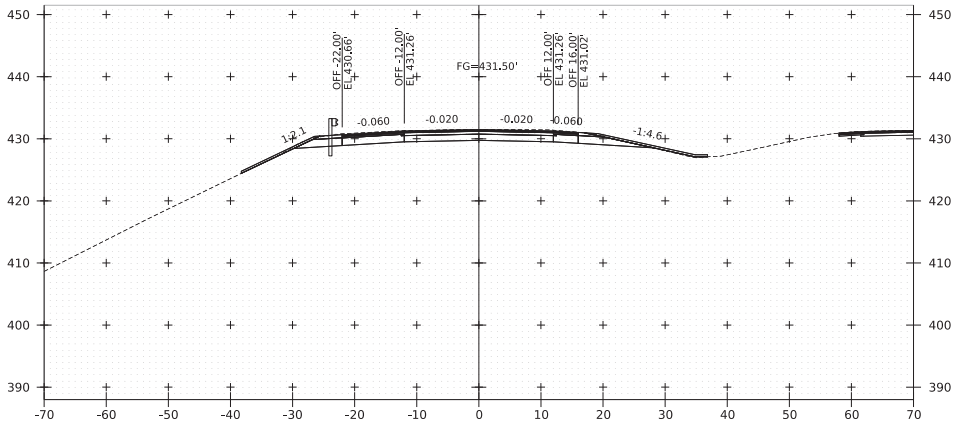


SB 4795+50

0 10 20
SCALE IN FEET

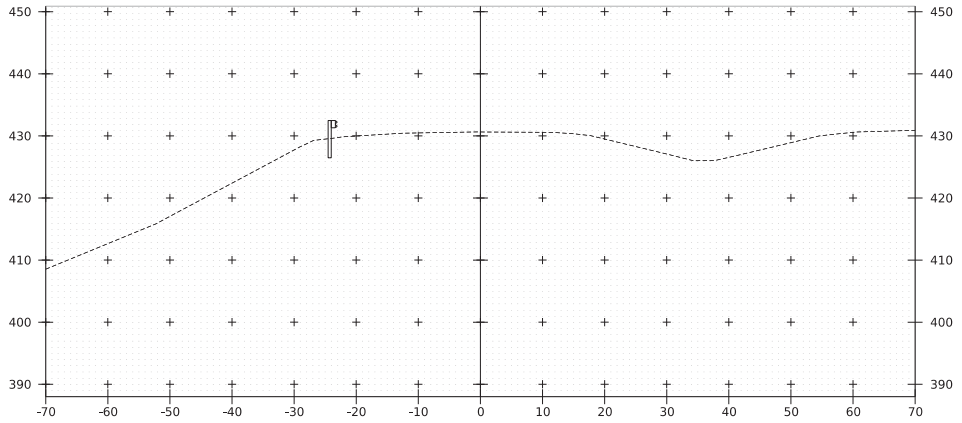
Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_SB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 SB XS SHEET 2	SHEET 43 OF 50



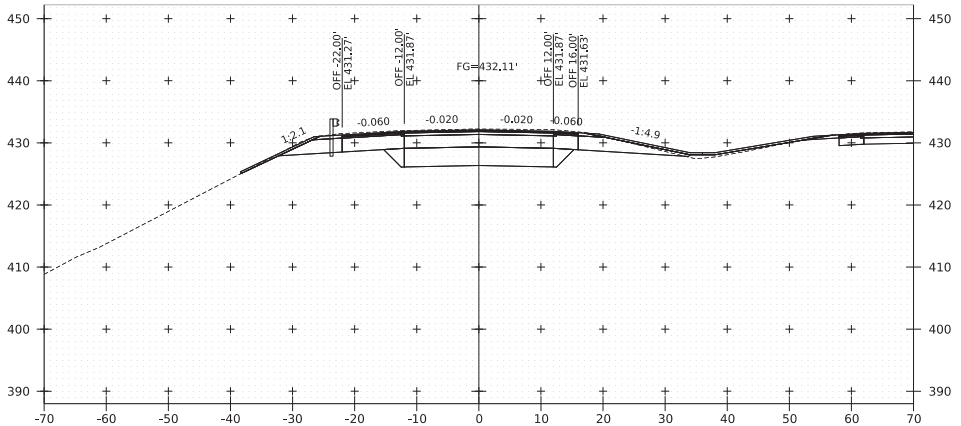
SB 4797+00

END PROJECT - SB 4796+75

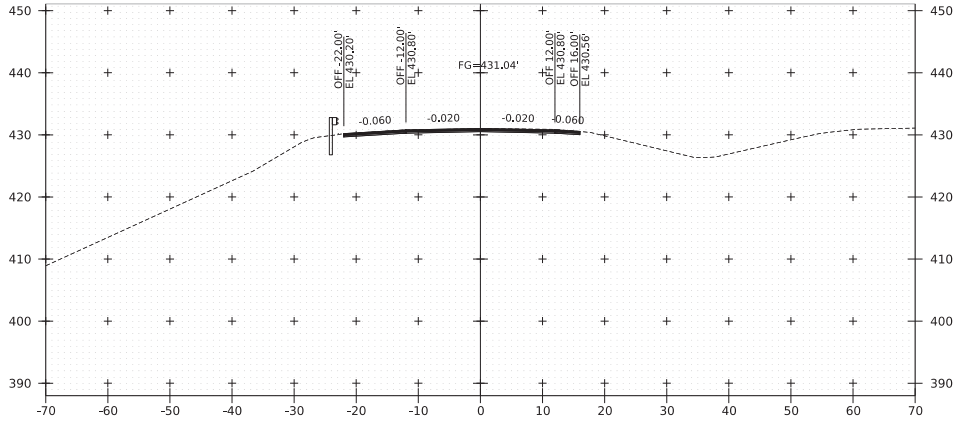


SB 4798+00

END APPROACH - 4797+87.50



SB 4796+50



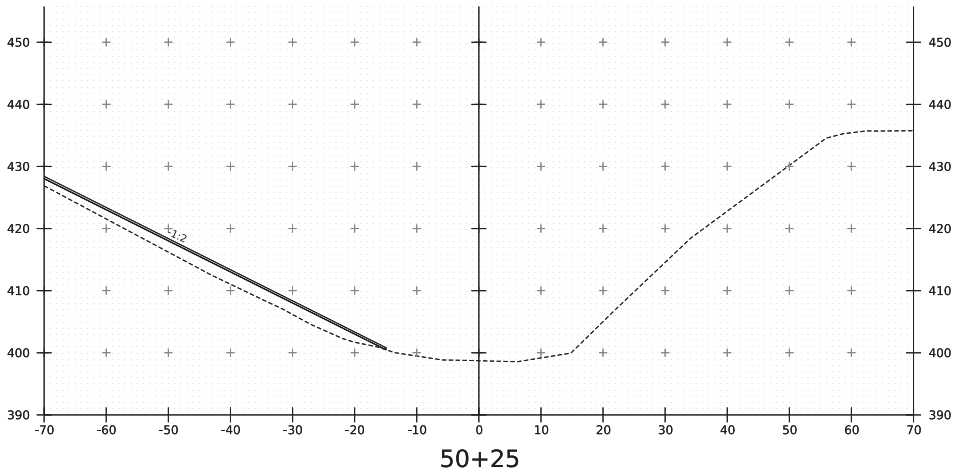
SB 4797+50

0 10 20

SCALE IN FEET

Stantec

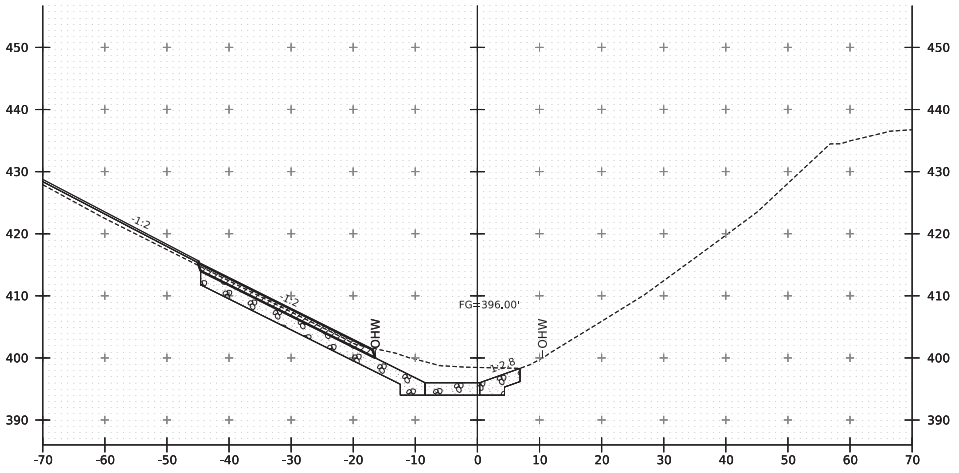
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: z21a024xs_SB.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: T. DUGUAY
DESIGNED BY: T. DUGUAY	CHECKED BY: I. MAYNARD
I91 SB XS SHEET 3	SHEET 44 OF 50



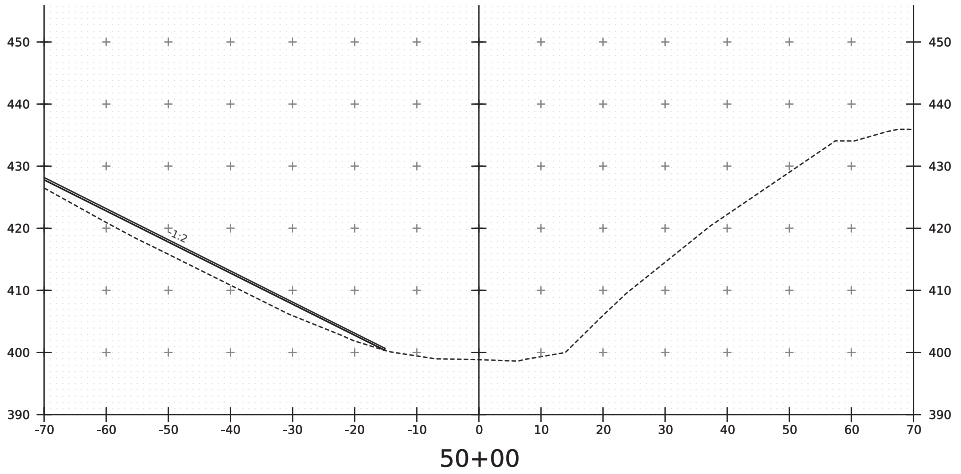
50+25

STA 50+75.00 LT
BEGIN
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GEOTEXTILE UNDER STONE FILL
E-STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN

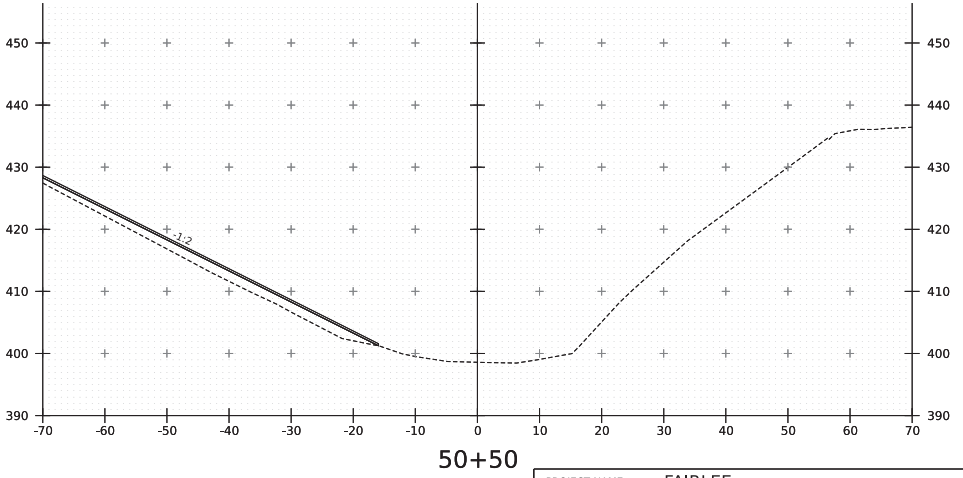
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UNCLASSIFIED CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
E-STONE FILL, TYPE II



50+75



50+00



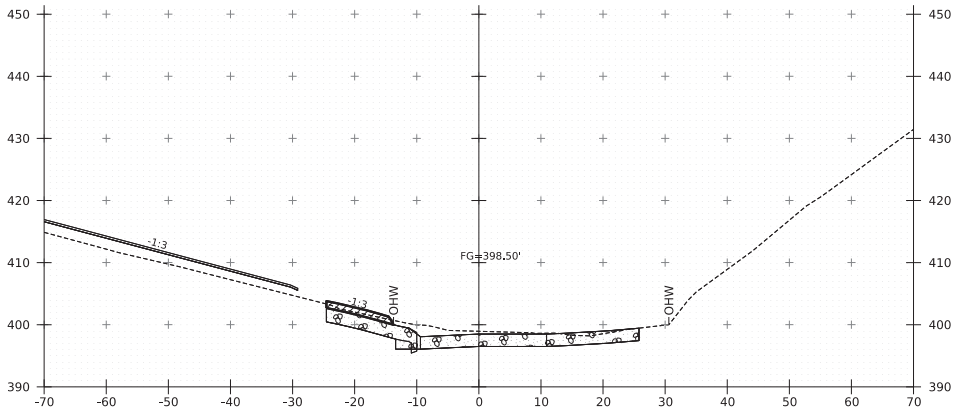
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SCALE IN FEET

Stantec

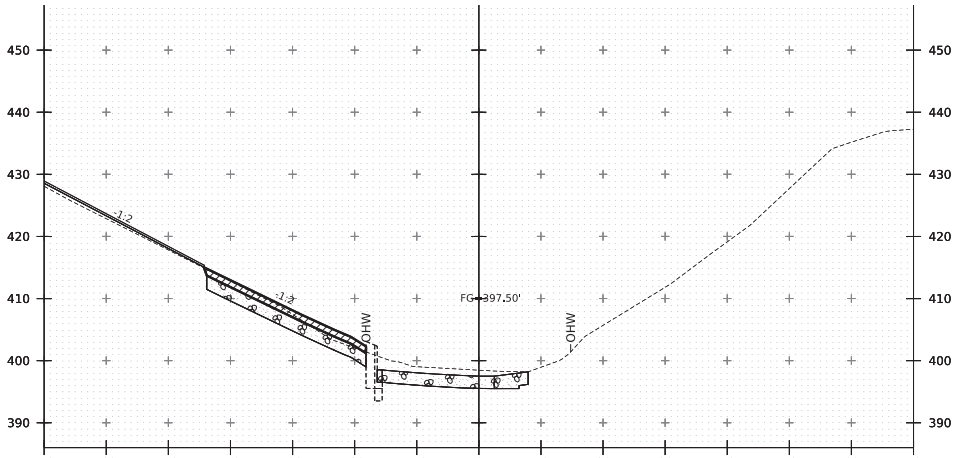
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: S. WINES
CHANNEL XS SHEET 1	SHEET 45 OF 50

STA 51+03.00 RT
BEGIN
GEOTEXTILE UNDER STONE FILL
GRUBBING MATERIAL, 12 IN



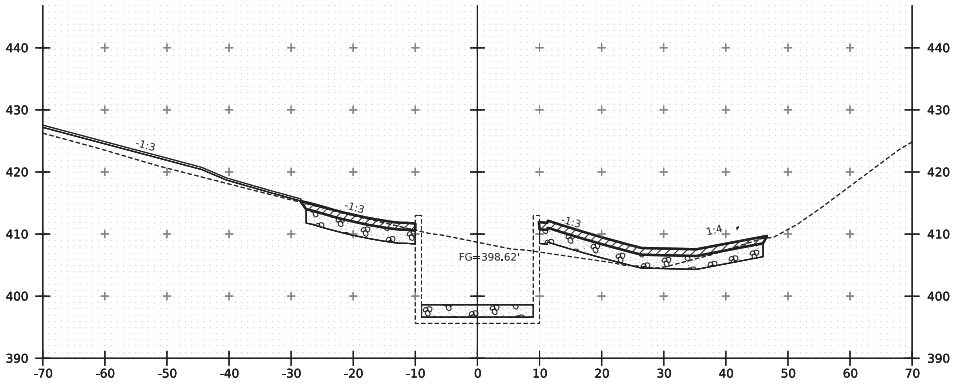
51+00

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GEOTEXTILE UNDER STONE FILL

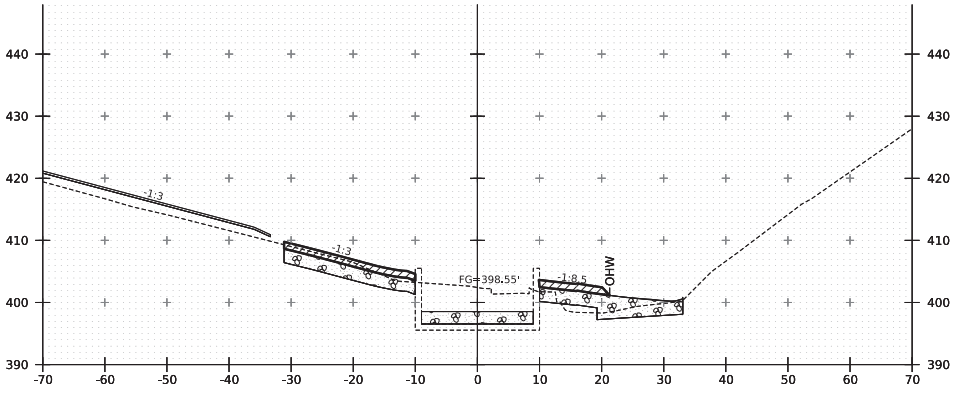


50+90

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GEOTEXTILE UNDER STONE FILL
E-STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN



51+25

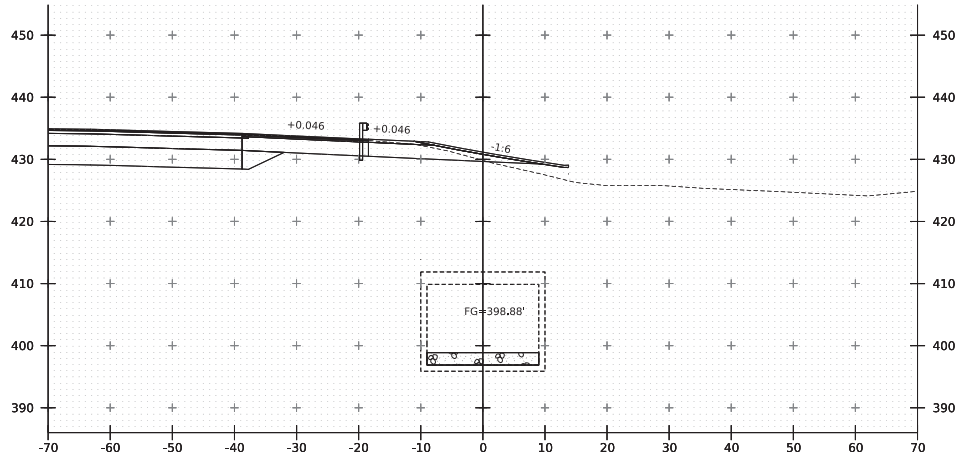


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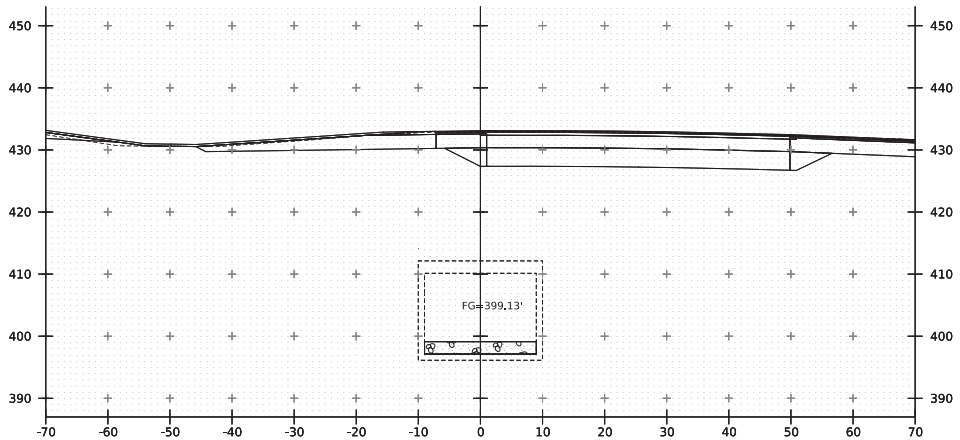
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Stantec

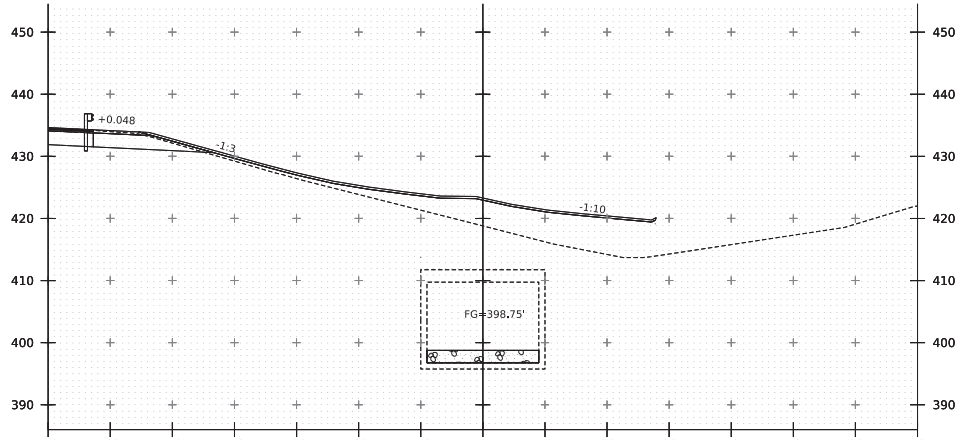
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: S. WINES
CHANNEL XS SHEET 2	SHEET 46 OF 50



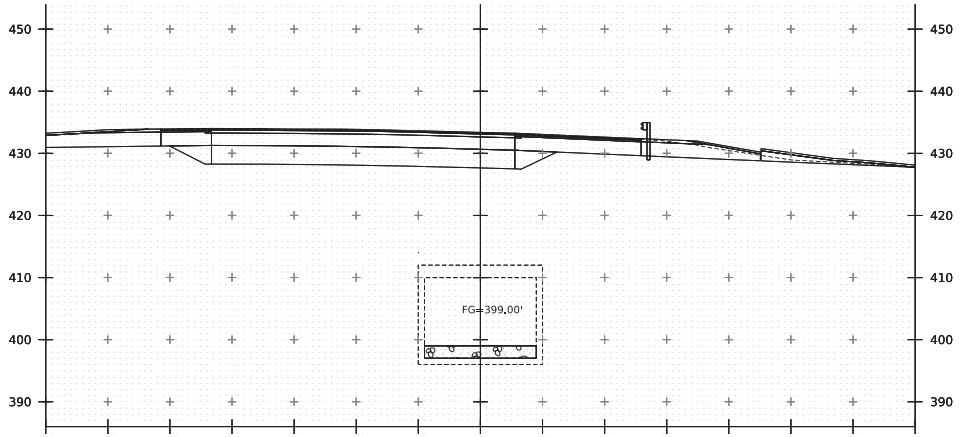
51+75



52+25



51+50

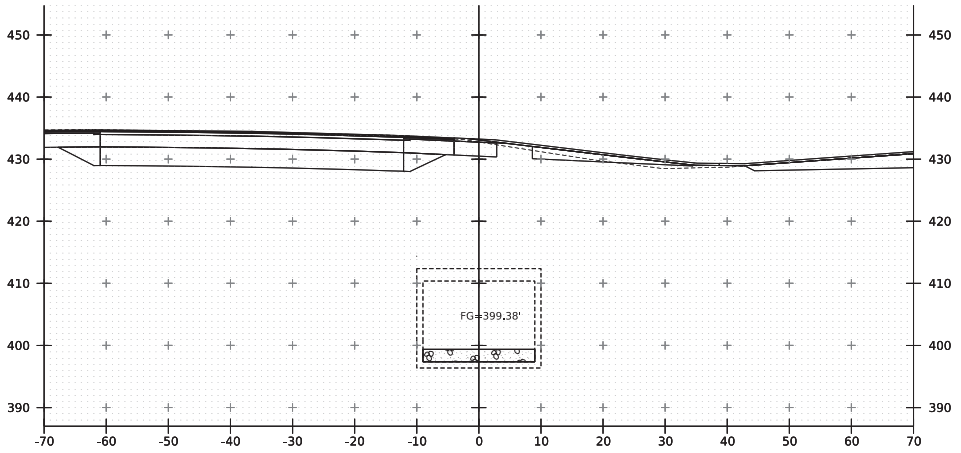


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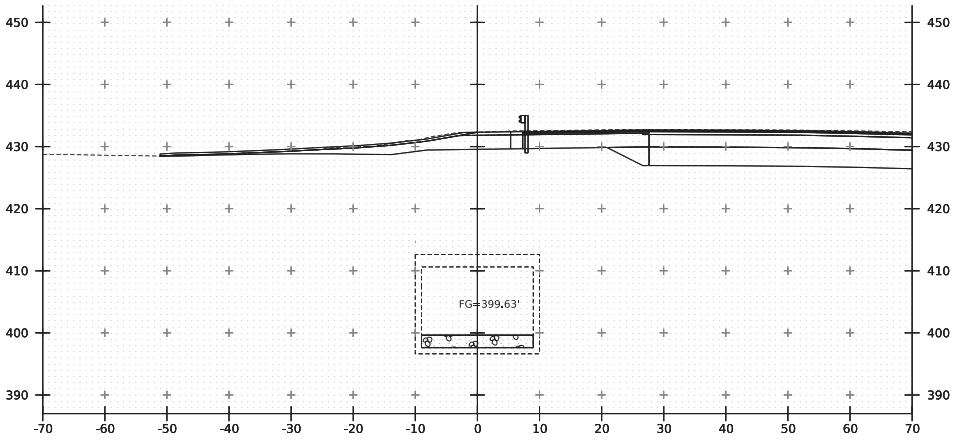
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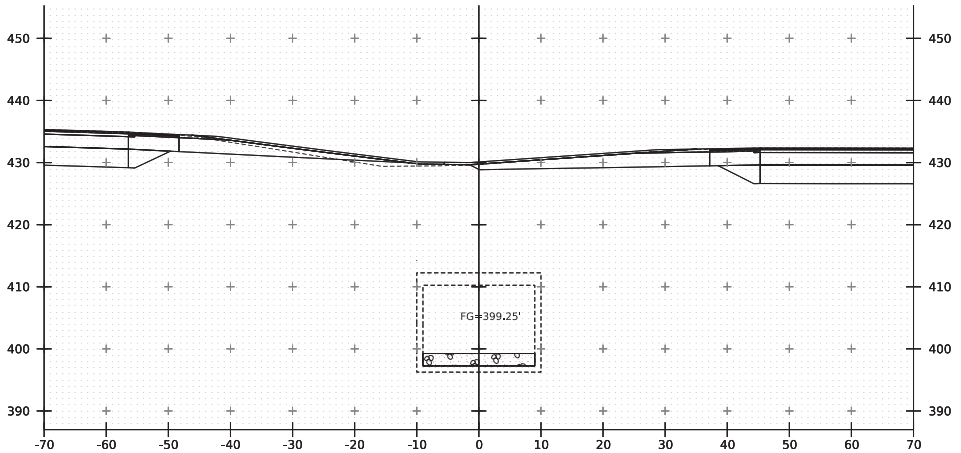
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: S. WINES
CHANNEL XS SHEET 3	SHEET 47 OF 50



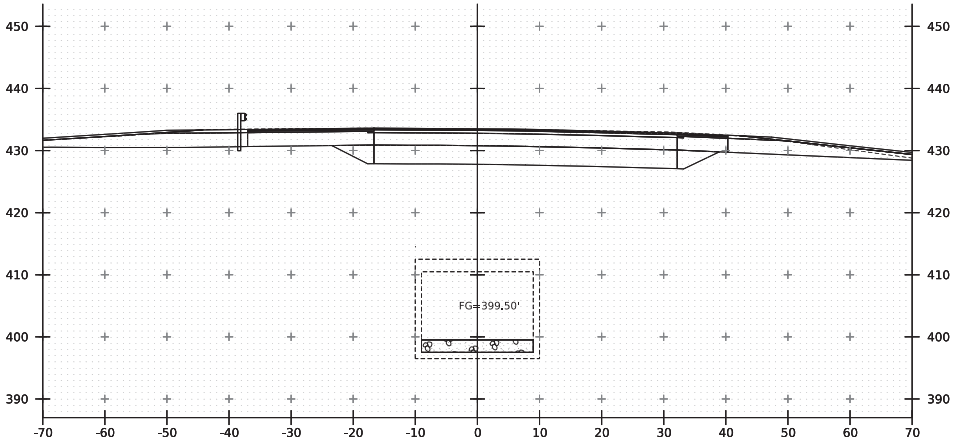
52+75



53+25



52+50



53+00

0 10 20

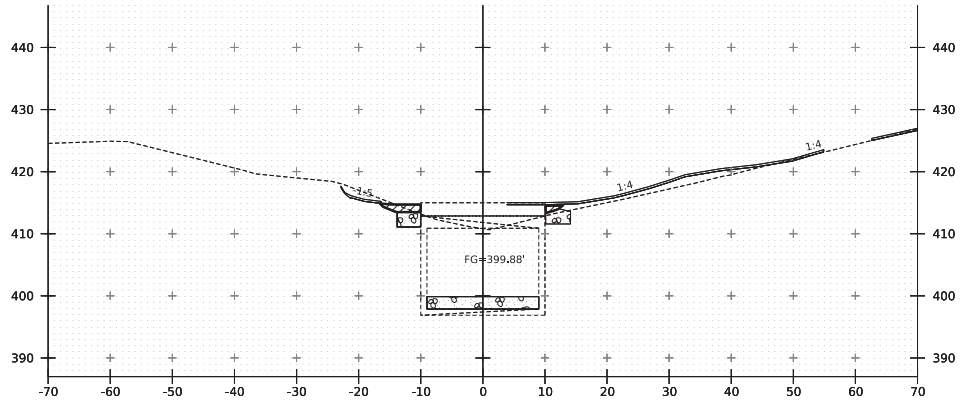
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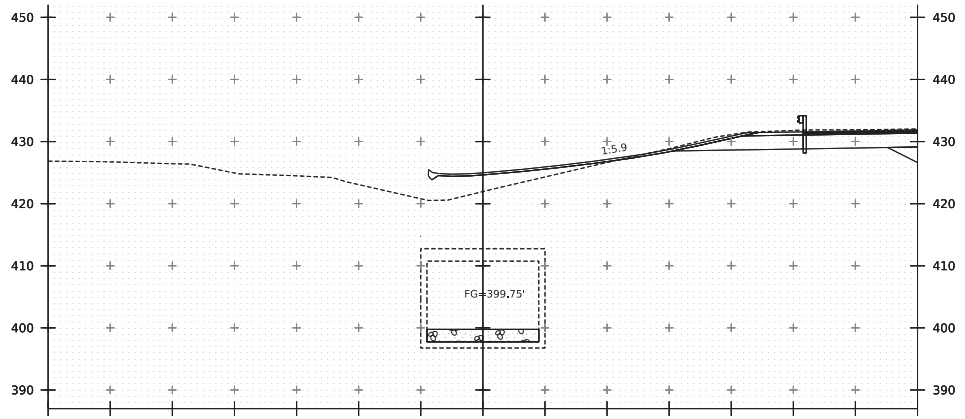
PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)

FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: S. WINES
CHANNEL XS SHEET 4	SHEET 48 OF 50

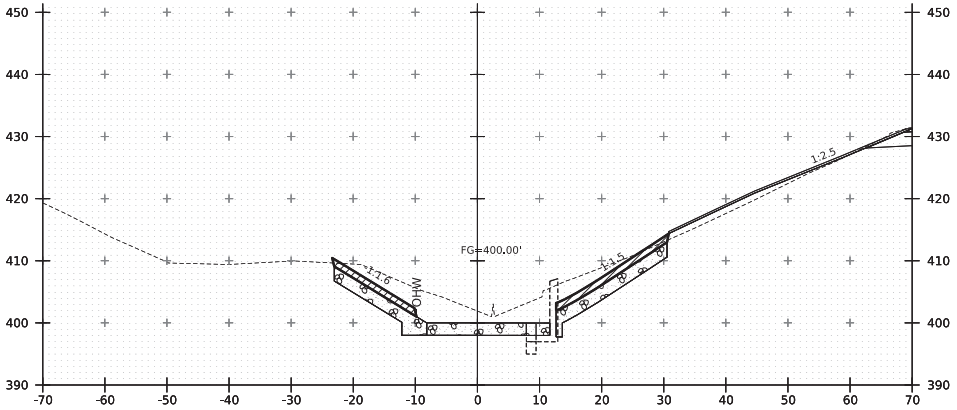
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GEOTEXTILE UNDER STONE FILL
E- STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN



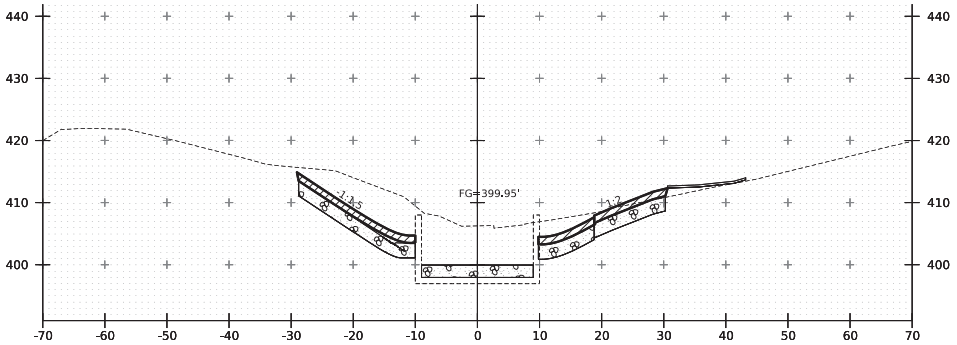
53+75



53+50



54+00



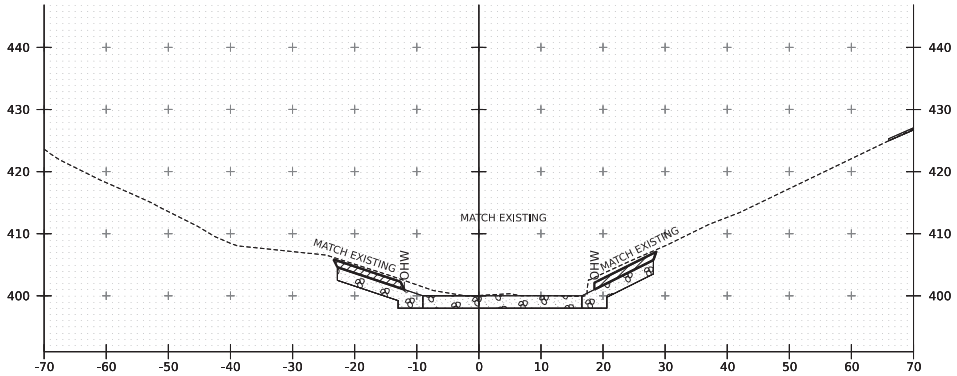
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0 10 20
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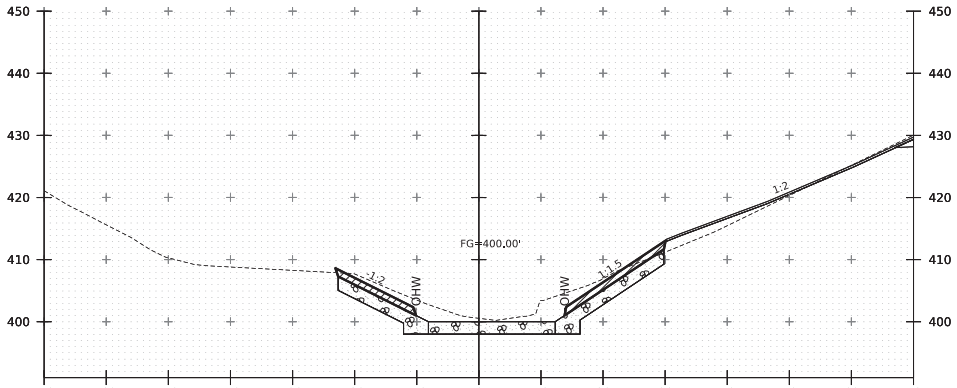
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PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: S. WINES
CHANNEL XS SHEET 5	SHEET 49 OF 50

STA 54+25.00 LT/RT
END
UNCLASSIFIED CHANNEL EXCAVATION
GEOTEXTILE UNDER STONE FILL
E-STONE FILL, TYPE II
GRUBBING MATERIAL, 12 IN



54+25



54+10

0 10 20
SCALE IN FEET

Stantec

PROJECT NAME:	FAIRLEE
PROJECT NUMBER:	IM 091-2(91)
FILE NAME: 21a024_xs_Channel.dgn	PLOT DATE: 3-DEC-2025
PROJECT LEADER: J. GRIGAS	DRAWN BY: D. DRAPER
DESIGNED BY: J. GRIGAS	CHECKED BY: S. WINES
CHANNEL XS SHEET 6	SHEET 50 OF 50

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Non-segregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
XI. Certification Regarding Use of Contract Funds for Lobbying
XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (*see* 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

> "It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:
(1) Withholding monthly progress payments;
(2) Assessing sanctions;
(3) Liquidated damages; and/or
(4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than $10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act (40 U.S.C. 3141(2)(B)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided,* That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH–1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in 29 CFR part 1, a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to *DBAconformance@dol.gov*. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30–day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to *DBAconformance@dol.gov*, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30–day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided,* That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. *Basic record requirements* (1) *Length of record retention.* All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements* (1) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (*e.g.,* the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH–347 or in any other format desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division website at *https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347/.pdf* or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3; and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH–347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 3729.

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under 29 CFR part 6 any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices* (1) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of 40 U.S.C. 3144(b) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, 18 U.S.C. 1001.

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or 29 CFR part 1 or 3;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or 29 CFR part 1 or 3; or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or 29 CFR part 1 or 3.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* $31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its reprocurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or

d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of $150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

* * * * *

3. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (https://www.sam.gov/), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

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XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)
This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

"General Decision Number: VT20260053 01/02/2026

Superseded General Decision Number: VT20250053

State: Vermont

Construction Type: Highway

County: Orange County in Vermont.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Modification Number	Publication Date
0	01/02/2026

SUVT2017-014 08/06/2019

	Rates	Fringes
CARPENTER, Includes Form Work	$ 20.00	1.64
CEMENT MASON/CONCRETE FINISHER	$ 25.34	0.00
ELECTRICIAN	$ 28.15	2.03
HIGHWAY/PARKING LOT STRIPING: Painter	$ 23.83	0.00
INSTALLER - SIGN	$ 16.25	3.20
IRONWORKER, REINFORCING	$ 21.70	1.60
IRONWORKER, STRUCTURAL	$ 28.77	7.91
LABORER: Concrete Worker	$ 20.19	1.31
LABORER: Landscape	$ 14.70	1.03
LABORER: Common or General, Includes Asphalt Raker, Shoveler, Spreader and Distributor	$ 16.32	3.15
OPERATOR: Backhoe/Excavator/Trackhoe	$ 22.52	4.22
OPERATOR: Bobcat/Skid Steer/Skid Loader	$ 19.79	4.28
OPERATOR: Broom/Sweeper	$ 16.88	6.14
OPERATOR: Bulldozer	$ 21.35	3.84
OPERATOR: Crane	$ 23.42	2.38
OPERATOR: Drill	$ 19.83	3.94
OPERATOR: Grader/Blade	$ 21.13	5.53

OPERATOR: Loader.....$ 21.95 4.63

OPERATOR: Mechanic.....$ 23.14 6.08

OPERATOR: Milling Machine.....$ 22.50 10.24

OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....$ 20.89 5.08

OPERATOR: Pounder.....$ 22.31 0.00

OPERATOR: Roller.....$ 18.48 7.16

OPERATOR: Screed.....$ 20.87 7.24

TRAFFIC CONTROL: Flagger.....$ 10.04 3.54

TRAFFIC CONTROL: Laborer-Cones/ Barricades/Barrels - Setter/Mover/Sweeper.....$ 17.20 6.71

TRUCK DRIVER, Includes all axles including Dump Trucks.....$ 18.44 1.75

TRUCK DRIVER: Distributor Truck.....$ 22.55 11.87

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least $13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional

information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may

include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION
"

January 2026
CR110

DISADVANTAGED BUSINESS ENTERPRISE (DBE) POLICY
CONTRACT REQUIREMENTS

Disadvantaged Business Enterprise (DBE) Policy. It shall be the policy of the Vermont Agency of Transportation (VTrans) to ensure nondiscriminatory opportunity for Disadvantaged Business Enterprises (DBEs) to participate in the performance of all contracts and subcontracts financed with Federal funds as specified by the regulations of the United States Department of Transportation (USDOT) and as set forth below.

1. **Policy.** It is the policy of USDOT that DBEs as defined in 49 Code of Federal Regulation (CFR) Part 26 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal funds. Consequently, the DBE requirements of 49 CFR Part 26 and 23 CFR, Chapter 1, Part 230, Subpart b apply to this contract.

2. **DBE Obligation.** The State and its Contractors agree to ensure that DBEs as defined in 49 CFR Part 26, have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds. **Each subcontract the prime contractor signs with a subcontractor must include this assurance:** *The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of USDOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as VTrans deems appropriate.*

3. **Sanctions for Noncompliance.** The Contractor is hereby advised that failure of the Contractor, or any Subcontractor performing work under this contract, to carry out the requirements set forth in paragraphs 1 and 2 above shall constitute a breach of contract and after the notification of the Vermont Agency of Transportation, Secretary of Transportation, may result in termination of this contract by the State or such remedy as the State deems necessary.

4. **Inclusion in Subcontracts.** The Contractor shall insert in each of its subcontracts this Disadvantaged Business Enterprise (DBE) Policy and a clause requiring its subcontractors to include this same Policy in any lower tier subcontracts which they may enter into, together with a clause requiring the inclusion of the Policy in any further subcontract that may in turn be made. This Policy shall not be incorporated by reference.

Disadvantaged Business Enterprise (DBE) Program Goals. The Vermont Agency of Transportation (VTrans) is required to set an overall DBE goal for participation in all transportation related Federal-aid projects. The goal is determined following guidelines set forth in 49 CFR 26.45, and based on the availability of ready, willing and able DBEs who submitted bids and quotes for transportation related projects, compared as a percentage of all available contractors who submitted bids and quotes for transportation related projects during the same time period. The DBE goal may be adjusted to take into account other factors impacting DBE utilization, in an effort to narrowly tailor the overall DBE goal. The detailed goal setting methodology and current overall DBE goal may be viewed on the VTrans website at: http://vtrans.vermont.gov/civil-rights/doing-business/dbe-center/program-goals

The VTrans overall DBE goal is currently achieved by a combination of contract specific goals and a race/gender neutral policy. Contractors should be proactive and solicit bids and quotes from certified DBEs for use when submitting their own bids and employ certified DBEs when participating on transportation related projects.

Disadvantaged Business Enterprise (DBE) Definition. A DBE is defined as a business that is owned and controlled by one or more socially and economically disadvantaged person(s). For the purposes of this definition:

(1) "Socially and economically disadvantaged person" means an individual who is a citizen or lawful permanent resident of the United States and who is a Woman, Black, Hispanic, Portuguese, Native American, Asian American, or a member of another group, or an individual found to be disadvantaged by the Small Business Administration pursuant to Section 3 of the Small Business Act.

(2) "Owned and controlled" means a business which is:

a. A sole proprietorship legitimately owned and controlled by an individual who is a disadvantaged person.

b. A partnership, joint venture or limited liability company in which at least 51% of the beneficial ownership interests legitimately is held by a disadvantaged person(s).

c. A corporation or other entity in which at least 51% of the voting interest and 51% of the beneficial ownership interests legitimately are held by a disadvantaged person(s).

The disadvantaged group owner(s) or stockholder(s) must possess control over management, interest in capital, and interest in earnings commensurate with percentage of ownership. Disadvantaged participation in a joint venture must also be based on the sharing of real earnings, as above. If the disadvantaged group ownership interests are real, substantial and continuing and not created solely to meet the requirements of the program, a firm is considered a bona fide DBE.

Certified DBE Directory. The current Vermont Unified Disadvantaged Business Enterprise (DBE) Directory is available online at: http://vtrans.vermont.gov/civil-rights/doing-business/dbe-center/directory. This directory contains all currently certified DBEs available for work in Vermont and is updated continuously. Only firms listed in this directory are eligible for DBE credit on Vermont Federal-aid projects. If you have questions about DBE certification, or do not have access to the Internet, please call the AOT DBE Program Manager for assistance.

Counting DBE Participation Towards Project Goals. For payments made to DBE contractors to be counted toward DBE goals, the DBE contractors must perform a commercially useful function (CUF). The DBE must be responsible for execution of the work of the contract and must carry out its responsibilities by performing, managing, and supervising the work involved, consistent with standard industry practices.

This means that:

- The DBE must also be responsible for ordering its own materials and supplies, determining quantity and quality, negotiating price, installing (where applicable) and paying for the material itself;

- The DBE must perform work commensurate with the amount of its contract;

- The DBE's contribution cannot be that of an extra participant or a conduit through which funds are passed in order to obtain the appearance of DBE participation.

- The DBE must exercise responsibility for at least fifty percent of the total cost of its contract with its own workforce.

- None of the DBE's work can be subcontracted back to the prime contractor, nor can the DBE employ the prime's or other subcontractor's supervisors currently working on the project;
- The DBE's labor force must be separate and apart from that of the prime contractor or other subcontractors on the project. Transferring crews between primes, subcontractors, and DBE contractors is not acceptable.

- The DBE owner must hold necessary professional or craft license(s) or certification(s) for the type of work he/she performs on the project.

- The DBE may rent or lease, at competitive rates, equipment needed on the project from customary leasing sources or from other subcontractors on the project.

Allowable credit for payments made to DBEs for work performed. A contractor may take credit for payments made to a certified DBE that satisfies CUF requirements at the following rate:

- A DBE Prime Contractor: Count 100% of the value of the work performed by own forces, equipment and materials towards the DBE goals.

- An approved DBE subcontractor: Count 100% of the value of work performed by the DBE's own forces, equipment and materials, excluding the following:

    - The cost of materials/supplies purchased from a non-DBE Prime Contractor.

    - The value of work provided by non-DBE lower tier subcontractors, including non-DBE trucking to deliver asphalt to a DBE contractor.

- A DBE owner-operator of construction equipment: Count 100% of expenditures committed.

- A DBE manufacturer: Count 100% of expenditures committed. The manufacturer must be a firm that operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the Contractor.

- A regular DBE dealer/supplier: Count 60% of expenditures committed. A regular dealer/supplier is defined as a firm that owns, operates, or maintains a store, warehouse or other establishment, in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. A person may be a dealer in such bulk items as petroleum products, steel, cement, gravel, stone or asphalt without owning, operating or maintaining a place of business, if the person both owns and operates distribution equipment for the products, by means of a long-term agreement, and not by a contract by contract basis.

- A DBE broker: Count for DBE credit only the fees or commissions charged for assistance in the procurement, and fees and transportation charges for the delivery of materials or supplies required at the job site, but not the cost of materials procured. A broker is defined as any person(s) or firm who arranges or expedites transactions for materials or supplies and does not take physical possession of the materials or supplies at their place of business for resale.

- A DBE renter of construction equipment to a contractor: Count 20% of expenditures committed, with or without operator.

- A bona fide DBE service provider: Count 100% of reasonable fees or commissions. Eligible services include professional, technical, consultant, or managerial, services and assistance in the procurement of essential personnel, facilities, equipment, materials or supplies required for the performance of the contract. Eligible services also include agencies providing bonding and insurance specifically required for the performance of the contract.

- A trucking, hauling or delivery operation: Count 100% of expenditures committed when trucks are owned, operated, licensed and insured by the DBE and used on the contract and, if applicable, includes the cost of the materials and supplies. 100% of expenditures committed when the DBE leases trucks from another DBE firm including an owner-operator. 100% of reasonable fees, or commissions, the DBE receives as a result of a lease arrangement for trucks from a non-DBE, including an owner-operator.

- Any combination of the above.

Removal of Approved DBE From Transportation Related Project. Contractors may not terminate for convenience, any approved DBE subcontractor and perform the work with their own forces, without prior written consent from the AOT DBE Program Manager or the AOT Civil Rights Director

Federal-aid projects which specify a DBE contract goal. The provisions of the Vermont Agency of Transportation Supplemental Specification – Disadvantaged Business Enterprise (DBE) Utilization (CR 160) shall apply to all VTrans Federal-aid projects which specify a DBE contract goal.

Subcontractor Payments. In accordance with VTrans Standard Specifications for Construction, Section 107.01(h), on all federal-aid and state funded contracts, the Contractor, during the life of the Contract and on a monthly basis, shall submit a listing of payments to subcontractors using the tool specified in the Civil Rights Compliance Requirement document located in the working drawer in Doc Express. Reports are due to the Agency Office of Civil Rights by the tenth working day after month-end. There shall be no direct compensation allowed the Contractor for this work, but the cost thereof shall be included in the general cost of the work. In accordance with 9 V.S.A. Section 4003, notwithstanding any contrary agreement, payments made to subcontractors after seven days from receipt of a corresponding progress payment by the State to the Contractor, or seven days after receipt of a subcontractor's invoice, whichever is later, violate this agreement. Violations shall be reported to the Agency Office of Civil Rights for review. Failure to resolve disputes in a timely manner may result in a complaint made to the Agency Pre-qualification Committee. In this Committee's judgment, appropriate penalties may be involved for failure to comply with this specification. Penalties may include suspension, reduction or revocation of the Contractor's pre-qualification rating. This clause shall be included in the prime Contractor's Contract made with all if its subcontractors.

Attachment C: Standard State Provisions for Contracts and Grants

Revised: February 13, 2026

1. **Definitions:** For purposes of this Attachment, "Party" shall mean the Contractor, Grantee, or Subrecipient, with whom the State of Vermont is executing this Agreement and consistent with the form of the Agreement. "Agreement" shall mean the specific contract or grant to which this form is attached.
2. **Entire Agreement:** This Agreement, whether in the form of a contract, State-funded grant, or Federally-funded grant, represents the entire agreement between the parties on the subject matter. All prior agreements, representations, statements, negotiations, and understandings shall have no effect. Where an authorized individual is either required to click-through or otherwise accept, or made subject to, any electronic terms and conditions to use or access any product or service provided hereunder, such terms and conditions are not binding and shall have no force or effect. Further, any terms and conditions of Party's invoice, acknowledgment, confirmation, or similar document, shall not apply, and any such terms and conditions on any such document are objected to without need of further notice or objection.
3. **Governing Law, Jurisdiction and Venue; No Waiver of Jury Trial:** This Agreement will be governed by the laws of the State of Vermont without resort to conflict of laws principles. Any action or proceeding brought by either the State or the Party in connection with this Agreement shall be brought and enforced in the Superior Court of the State of Vermont, Civil Division, Washington Unit. The Party irrevocably submits to the jurisdiction of this court for any action or proceeding regarding this Agreement. The Party agrees that it must first exhaust any applicable administrative remedies with respect to any cause of action that it may have against the State regarding its performance under this Agreement. Party agrees that the State shall not be required to submit to binding arbitration or waive its right to a jury trial.
4. **Sovereign Immunity:** The State reserves all immunities, defenses, rights, or actions arising out of the State's sovereign status or under the Eleventh Amendment to the United States Constitution. No waiver of the State's immunities, defenses, rights, or actions shall be implied or otherwise deemed to exist by reason of the State's entry into this Agreement.
5. **No Employee Benefits For Party:** The Party understands that the State will not provide any individual retirement benefits, group life insurance, group health and dental insurance, vacation or sick leave, workers compensation or other benefits or services available to State employees, nor will the State withhold any state or Federal taxes except as required under applicable tax laws, which shall be determined in advance of execution of the Agreement. The Party understands

that all tax returns required by the Internal Revenue Code and the State of Vermont, including but not limited to income, withholding, sales and use, and rooms and meals, must be filed by the Party, and information as to Agreement income will be provided by the State of Vermont to the Internal Revenue Service and the Vermont Department of Taxes.

6. **Independence:** The Party will act in an independent capacity and not as officers or employees of the State.
7. **Defense and Indemnity:**
   A. The Party shall defend the State and its officers and employees against all third-party claims or suits arising in whole or in part from any act or omission of the Party or of any agent of the Party in connection with the performance of this Agreement. The State shall notify the Party in the event of any such claim or suit, and the Party shall immediately retain counsel and otherwise provide a complete defense against the entire claim or suit. The State retains the right to participate at its own expense in the defense of any claim. The State shall have the right to approve all proposed settlements of such claims or suits.
   B. After a final judgment or settlement, the Party may request recoupment of specific defense costs and may file suit in Washington Superior Court requesting recoupment. The Party shall be entitled to recoup costs only upon a showing that such costs were entirely unrelated to the defense of any claim arising from an act or omission of the Party in connection with the performance of this Agreement.
   C. The Party shall indemnify the State and its officers and employees if the State, its officers, or employees become legally obligated to pay any damages or losses arising from any act or omission of the Party or an agent of the Party in connection with the performance of this Agreement.
   D. Notwithstanding any contrary language anywhere, in no event shall the terms of this Agreement or any document furnished by the Party in connection with its performance under this Agreement obligate the State to (1) defend or indemnify the Party or any third party, or (2) otherwise be liable for the expenses or reimbursement, including attorneys' fees, collection costs or other costs of the Party or any third party.
8. **Insurance:** During the term of this Agreement, Party, at its expense, shall maintain in full force and effect the insurance coverages set forth in the Vermont State Insurance Specification in effect at the time of incorporation of this Attachment C into this Agreement. The terms of the Vermont State Insurance Specification are hereby incorporated by reference into this Attachment C as if fully set forth herein. A copy of the Vermont State Insurance Specification is available at: https://aoa.vermont.gov/Risk-Claims-COI.
9. **Reliance by the State on Representations:** All payments by the State under this Agreement will be made in reliance upon the accuracy of all representations

made by the Party in accordance with this Agreement, including but not limited to bills, invoices, progress reports, and other proofs of work.

10. **False Claims Act:** Any liability to the State under the Vermont False Claims Act (32 V.S.A. § 630 et seq.) shall not be limited notwithstanding any agreement of the State to otherwise limit Party's liability.

11. **Whistleblower Protections:** The Party shall not discriminate or retaliate against one of its employees or agents for disclosing information concerning a violation of law, fraud, waste, abuse of authority, or acts threatening health or safety, including but not limited to allegations concerning the False Claims Act. Further, the Party shall not require such employees or agents to forego monetary awards as a result of such disclosures, nor should they be required to report misconduct to the Party or its agents prior to reporting to any governmental entity and/or the public.

12. **Use and Protection of State Information:**

    A. As between the State and Party, "State Data" includes all data received, obtained, or generated by the Party in connection with performance under this Agreement. Party acknowledges that certain State Data to which the Party may have access may contain information that is deemed confidential by the State, or which is otherwise confidential by law, rule, or practice, or otherwise exempt from disclosure under the State of Vermont Access to Public Records Act, 1 V.S.A. § 315 et seq. ("Confidential State Data").

    B. With respect to State Data, Party shall:

        i. take reasonable precautions for its protection;

        ii. not rent, sell, publish, share, or otherwise appropriate it; and

        iii. upon termination of this Agreement for any reason, Party shall dispose of or retain State Data if and to the extent required by this Agreement, law, or regulation, or otherwise requested in writing by the State.

    C. With respect to Confidential State Data, Party shall:

        i. strictly maintain its confidentiality;

        ii. not collect, access, use, or disclose it except as necessary to provide services to the State under this Agreement;

        iii. provide at a minimum the same care to avoid disclosure or unauthorized use as it provides to protect its own similar confidential and proprietary information;

        iv. implement and maintain administrative, technical, and physical safeguards and controls to protect against any anticipated threats or hazards or unauthorized access or use;

        v. promptly notify the State of any request or demand by any court, governmental agency or other person asserting a demand or

request for Confidential State Data so that the State may seek an appropriate protective order; and

vi. upon termination of this Agreement for any reason, and except as necessary to comply with subsection B.iii above in this section, return or destroy all Confidential State Data remaining in its possession or control.

D. If Party is provided or accesses, creates, collects, processes, receives, stores, or transmits Confidential State Data in any electronic form or media, Party shall utilize:

i. industry-standard firewall protection;

ii. multi-factor authentication controls;

iii. encryption of electronic Confidential State Data while in transit and at rest;

iv. measures to ensure that the State Data shall not be altered without the prior written consent of the State;

v. measures to protect against destruction, loss, or damage of State Data due to potential environmental hazards, such as fire and water damage;

vi. training to implement the information security measures; and

vii. monitoring of the security of any portions of the Party's systems that are used in the provision of the services against intrusion.

E. No Confidential State Data received, obtained, or generated by the Party in connection with performance under this Agreement shall be processed, transmitted, stored, or transferred by any means outside the United States, except with the express written permission of the State.

F. Party shall notify the State within twenty-four hours after becoming aware of any unauthorized destruction, loss, alteration, disclosure of, or access to, any State Data.

G. State of Vermont Cybersecurity Standard Update: Party confirms that all products and services provided to or for the use of the State under this Agreement shall be in compliance with State of Vermont Cybersecurity Standard Update in effect at the time of incorporation of this Attachment C into this Agreement. The State of Vermont Cybersecurity Standard Update prohibits the use of certain branded products in State information systems or any vendor system, and a copy is available at: https://digitalservices.vermont.gov/cybersecurity/cybersecurity-standards-and-directives.

H. In addition to the requirements of this Section 12, Party shall comply with any additional requirements regarding the protection of data that may be included in this Agreement or required by law or regulation.

13. **Records Available for Audit:** The Party shall maintain all records pertaining to performance under this Agreement. “Records” means any written or recorded information, regardless of physical form or characteristics, which is produced or acquired by the Party in the performance of this Agreement. Records produced or acquired in a machine-readable electronic format shall be maintained in that format. The records described shall be made available at reasonable times during the period of this Agreement and for three years thereafter or for any period required by law for inspection by any authorized representatives of the State or Federal Government. If any litigation, claim, or audit is started before the expiration of the three-year period, the records shall be retained until all litigation, claims, or audit findings involving the records have been resolved.

14. **Nondiscrimination:**

    A. **Fair Employment Practices and Americans with Disabilities Act:** Party agrees to comply with the requirement of 21 V.S.A. Chapter 5, Subchapter 6, relating to fair employment practices, to the full extent applicable, and shall include this provision in all subcontracts for work performed in Vermont. Party shall also ensure, to the full extent required by the Americans with Disabilities Act of 1990, as amended, that qualified individuals with disabilities receive equitable access to the services, programs, and activities provided by the Party under this Agreement.

    B. **IT Accessibility Standards:** Party acknowledges and agrees that any digital products, services, and content provided under this Agreement, whether supporting State programs or intended for the State's use, must adhere to the State's accessibility standards and guidelines as established by Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (28 CFR Part 35) (hereinafter, for purposes of this subsection B, the “Rule”). The Rule requires communication and content on web platforms and mobile applications to meet or exceed specific success criteria and conformance requirements. The Rule applies to websites, software applications, electronic reports and output documentation, and training delivered in electronic formats (including, but not limited to, documents, videos, and webinars), and other digital content. Information concerning the Rule and the State’s Universal Digital Accessibility resources are available on the State’s Communications and Marketing Office website at: https://cmo.vermont.gov.

        i. Party warrants that the software, products, services, or subscriptions provided under this Agreement, whether supporting State programs or intended for the State's use (hereinafter, for purposes of this subsection B, “Products”) comply with the Rule and agrees to defend, indemnify, and hold harmless the State against any claims related to a Product’s non-compliance with the Rule.

        ii. When updates or upgrades are made to the Products available through this Agreement, the Party agrees:

a) to develop functionality that supports accessibility in conformance with the Rule and, if any issues arise due to nonconformance with the Rule, to provide alternative solutions upon request at no additional cost to the State; and

b) to document how the changes will impact or improve the Product's accessibility and usability. This documentation, upon request, must be provided to the State in advance of the update or upgrade, occurring within an agreed timeframe sufficient for the State to review the changes and either approve them or request a remediation plan from the Party.

iii. If agreed-upon updates fail to improve the Product's accessibility or usability as planned, such failure shall be a material breach of this Agreement.

15. **Offset:** The State may offset any sums which the Party owes the State against any sums due the Party under this Agreement; provided, however, that any offset of amounts due the State of Vermont as taxes shall be in accordance with the procedures more specifically provided in 32 V.S.A. § 3113.

16. **Taxes Due to the State:** Party certifies under the pains and penalties of perjury that, as of the date this Agreement is signed, the Party is in good standing with respect to, or in full compliance with, a plan to pay any and all taxes due the State of Vermont.

17. **Taxation of Purchases:** All State purchases must be invoiced tax free. An exemption certificate will be furnished upon request with respect to otherwise taxable items.

18. **Child Support:** (Only applicable if the Party is a natural person, not a corporation or partnership.) Party states that, as of the date this Agreement is signed, Party is not under an obligation to pay child support or is in good standing with respect to or in full compliance with a plan to pay any and all child support payable under a support order. Party makes this statement with regard to support owed to any and all children residing in Vermont. In addition, if the Party is a resident of Vermont, Party makes this statement with regard to support owed to any and all children residing in any other state or territory of the United States.

19. Sub-Agreements: Party shall not assign, subcontract, or subgrant the performance of this Agreement or any portion thereof to any other Party without the prior written approval of the State. Party shall be responsible and liable to the State for all acts or omissions of subcontractors and any other person performing work under this Agreement pursuant to an agreement with Party or any subcontractor.

    In the case this Agreement is a contract with a total cost in excess of $250,000, the Party shall provide to the State a list of all proposed subcontractors and subcontractors' subcontractors, together with the identity of those subcontractors' workers compensation insurance providers, and additional required or requested information, as applicable, in accordance with Section 32 of The Vermont

Recovery and Reinvestment Act of 2009 (Act No. 54), as amended by Section 17 of Act No. 142 (2010) and by Section 6 of Act No. 50 (2011).

Party shall include the following provisions of this Attachment C in all subcontracts for work performed solely for the State of Vermont and subcontracts for work performed in the State of Vermont: Section 10 ("False Claims Act"); Section 11 ("Whistleblower Protections"); Section 12 ("Confidentiality and Protection of State Information"); Section 14 ("Fair Employment Practices and Americans with Disabilities Act"); Section 16 ("Taxes Due the State"); Section 18 ("Child Support"); Section 20 ("No Gifts or Gratuities"); Section 22 ("Certification Regarding Debarment"); Section 30 ("State Facilities"); and Section 32.A ("Certification Regarding Use of State Funds").

20. **No Gifts or Gratuities:** Party shall not give title or possession of anything of substantial value (including property, currency, travel, and/or education programs) to any officer or employee of the State during the term of this Agreement.
21. **Regulation of Hydrofluorocarbons:** Party confirms that all products provided to or for the use of the State under this Agreement shall not contain hydrofluorocarbons, as prohibited under 10 V.S.A. § 586.
22. **Certification Regarding Debarment:** Party certifies under pains and penalties of perjury that, as of the date that this Agreement is signed, neither Party nor Party's principals (officers, directors, owners, or partners) are presently debarred, suspended, proposed for debarment, declared ineligible, or excluded from participation in Federal programs, or programs supported in whole or in part by Federal funds. Party further certifies under pains and penalties of perjury that, as of the date that this Agreement is signed, Party is not presently debarred, suspended, nor named on the State's Debarment List at: https://bgs.vermont.gov/purchasing-contracting/debarment.
23. **Conflict of Interest:**
    A. **Organizational Conflict of Interest (OCOI):** An OCOI arises when the Party as a business entity has an interest (for example, customers, partners, contracts) that could undermine, or reasonably be perceived to undermine, its faithful and unbiased performance of this Agreement.
    B. **Personal Conflict of Interest (PCOI):** A PCOI arises when an interest held by an agent or employee of the Party could undermine, or reasonably be perceived to undermine, the faithful and unbiased performance of this Agreement.
    C. **Requirements:** Party shall not have PCOIs or OCOI's with respect to this Agreement nor with respect to any other agreement(s) it may hold with the State. To ensure that PCOIs and OCOIs do not exist, the Party shall:
        i. Conduct an internal review of its current affiliations and activities and employees and agents and identify actual, potential, or reasonably perceived PCOIs or OCOIs relative to this Agreement.

ii. Maintain effective oversight to verify compliance with PCOI and OCOI prohibitions.

iii. Prevent PCOIs, including not assigning or allowing an employee to perform any role or task under this Agreement for which the Party has identified a PCOI.

iv. Inform employees and agents of their obligation to disclose PCOIs and to comply with the confidentiality provisions and any non-disclosure agreement required by this Agreement.

v. Make an immediate and full disclosure, in writing, to the State point of contact for this Agreement of any actual or potential PCOI or OCOI or the existence of any facts that may cause a reasonably prudent person to perceive a PCOI or OCOI with respect to this Agreement.

D. **Remedies:**

i. In the event the State determines that a PCOI or OCOI exists, the State will discuss the matter with the Party to determine whether the PCOI or OCOI can be mitigated to the State's satisfaction.

ii. If the State does not deem mitigation practicable, the State may terminate all or a portion of this Agreement for default or pursue such other remedies as may be permitted by law or this Agreement.

iii. If Party fails to disclose facts pertaining to the existence of a potential or actual PCOI or misrepresents relevant information to the State, the State may terminate this Agreement for default or pursue such other remedies as may be permitted by law or this Agreement.

24. **Vermont Public Records Act:** Party acknowledges and agrees that this Agreement, any and all information obtained by the State from the Party in connection with this Agreement, and any obligations of the State to maintain the confidentiality of information are subject to the State of Vermont Access to Public Records Act, 1 V.S.A. § 315 et seq.

25. **Force Majeure:** Neither the State nor the Party shall be liable to the other for any failure or delay of performance of any obligations under this Agreement to the extent such failure or delay shall have been wholly or principally caused by acts or events beyond its reasonable control rendering performance illegal or impossible (excluding strikes or lockouts) ("Force Majeure"). Where Force Majeure is asserted, the nonperforming party must prove that it made all reasonable efforts to remove, eliminate or minimize such cause of delay or damages, diligently pursued performance of its obligations under this Agreement, substantially fulfilled all non-excused obligations, and timely notified the other party of the likelihood or actual occurrence of an event described in this paragraph.

26. **Marketing:** Party shall not use the State's logo or otherwise refer to the State in any publicity materials, information pamphlets, press releases, research reports,

advertising, sales promotions, trade shows, or marketing materials or similar communications to third parties except with the prior written consent of the State.

27. **Termination:**

    A. **Non-Appropriation:** If this Agreement extends into more than one fiscal year of the State (July 1 to June 30), and if appropriations are insufficient to support this Agreement, the State may cancel this Agreement at the end of the fiscal year, or otherwise upon the expiration of existing appropriation authority. In the case that this Agreement is funded in whole or in part by Federal funds, and in the event Federal funds become unavailable or reduced, the State may suspend or cancel this Agreement immediately, and the State shall have no obligation to pay Party from State revenues.

    B. **Termination for Cause:** Either party may terminate this Agreement if a party materially breaches its obligations under this Agreement, and such breach is not cured within thirty (30) days after delivery of the non-breaching party's notice or such longer time as the non-breaching party may specify in the notice.

    C. **Termination Assistance:** Upon nearing the end of the final term or termination of this Agreement, without respect to cause, the Party shall take all reasonable and prudent measures to facilitate any transition required by the State. All State property, tangible and intangible, shall be returned to the State upon demand at no additional cost to the State in a format acceptable to the State.

28. **Continuity of Performance:** In the event of a dispute between the Party and the State, each party will continue to perform its obligations under this Agreement during the resolution of the dispute until this Agreement is terminated in accordance with its terms.

29. **No Implied Waiver of Remedies:** Either party's delay or failure to exercise any right, power, or remedy under this Agreement shall not impair any such right, power, or remedy, or be construed as a waiver of any such right, power, or remedy. All waivers must be in writing.

30. **State Facilities:** If the State makes space available to the Party in any State facility during the term of this Agreement for purposes of the Party's performance under this Agreement, the Party shall only use the space in accordance with all policies and procedures governing access to, and use of, State facilities, which shall be made available upon request. State facilities will be made available to Party on an "AS IS, WHERE IS" basis, with no warranties whatsoever.

31. **Requirements Pertaining Only to Federal Grants and Subrecipient Agreements:** If this Agreement is a grant that is funded in whole or in part by Federal funds:

    A. **Requirement to Have a Single Audit:** The Subrecipient will complete the Subrecipient Annual Report annually within 45 days after its fiscal year end, informing the State of Vermont whether or not a Single Audit is required for

the prior fiscal year. If a Single Audit is required, the Subrecipient will submit a copy of the audit report to the Federal Audit Clearinghouse within nine months. If a single audit is not required, only the Subrecipient Annual Report is required. A Single Audit is required if the subrecipient expends $1,000,000 or more in Federal assistance during its fiscal year and must be conducted in accordance with 2 CFR Chapter I, Chapter II, Part 200, Subpart F. The Subrecipient Annual Report is required to be submitted within 45 days, whether or not a Single Audit is required.

B. **Internal Controls:** In accordance with 2 CFR Part II, §200.303, the Party must establish and maintain effective internal control over the Federal award to provide reasonable assurance that the Party is managing the Federal award in compliance with Federal statutes, regulations, and the terms and conditions of the award. These internal controls should be in compliance with guidance in "Standards for Internal Control in the Federal Government" issued by the Comptroller General of the United States and the "Internal Control Integrated Framework" issued by the Committee of Sponsoring Organizations of the Treadway Commission.

C. **Mandatory Disclosures:** In accordance with 2 CFR Part II, §200.113, Party must disclose, in a timely manner, in writing to the State, all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award. Failure to make required disclosures may result in the imposition of sanctions which may include disallowance of costs incurred, withholding of payments, termination of the Agreement, suspension/debarment, etc.

32. Requirements Pertaining Only to State-Funded Grants:

A. **Certification Regarding Use of State Funds:** If Party is an employer and this Agreement is a State-funded grant in excess of $1,000, Party certifies that none of these State funds will be used to interfere with or restrain the exercise of Party's employee's rights with respect to unionization.

B. **Good Standing Certification (Act 154 of 2016):** If this Agreement is a State-funded grant, Party hereby represents: (i) that it has signed and provided to the State the form prescribed by the Secretary of Administration for purposes of certifying that it is in good standing (as provided in Section 13(a)(2) of Act 154) with the Agency of Natural Resources and the Agency of Agriculture, Food and Markets, or otherwise explaining the circumstances surrounding the inability to so certify; and (ii) that it will comply with the requirements stated therein.

(End of Standard State Provisions)

USDOT Standard Title VI Nondiscrimination Assurances Appendix A, E

Assurance Appendix A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. **Nondiscrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin, sex, age, disability, income-level, or LEP in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations as set forth in Appendix E, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, national origin, sex, age, disability, income-level, or LEP.

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the FHWA to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the FHWA, as appropriate, and will set forth what efforts it has made to obtain the information.

5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:

    a. withholding payments to the contractor under the contract until the contractor complies; and/or
    b. cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement

as the Recipient or the FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Assurance Appendix E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq*., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin), as implemented by 49 C.F.R. § 21.1 et seq. and 49 C.F.R. § 303;

- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq*.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq*.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq*.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (102 Stat. 28.), ("*….which restore[d] the broad scope of coverage and to clarify the application of title IX of the Education Amendments of 1972, section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and title VI of the Civil Rights Act of 1964*.");
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Justice regulations at 28 C.F.R. parts 35 and 36, and Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq), as implemented by 49 C.F.R. § 25.1 et seq.

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STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS
(EXECUTIVE ORDER 11246)

1. As used in these specifications:

   a. "Covered Area" means the geographical area described in the solicitation from which this contract resulted.

   b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority.

   c. "Employer Identification Number" means the Federal Social Security Number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

   A Minority Group Member is:

   ...American Indian or Alaskan Native
   consisting of all persons having origins in any of the original people of North American and who maintain cultural identification through tribal affiliations or community recognition.

   ...Black
   consisting of all persons having origins in any of the Black racial groups of Africa.

   ...Asian or Pacific Islander
   consisting of all persons having origins in any of the original people of the Far East, Southeast Asia, the Indian Sub-Continent or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippines and Samoa.

   ...Hispanic
   consisting of all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin.

   ...Cape Verde an
   consisting of all persons having origins in the Cape Verde Islands.

   ...Portuguese
   consisting of all persons of Portuguese, Brazilian or other Portuguese culture or origin.

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000.00 the provisions of these specifications and the notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in the Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontract participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. the overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure to make good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in Paragraphs 7a through p of these specifications. The goals set for the Contractor in the solicitation from which this contract resulted are expressed as percentages in the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minority or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity . The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:

    a. Ensure and maintain a working environment free of harassment, intimidation and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.

    b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

d. Provide immediate written notifications to the Regional Director when the union or unions, with which the Contractor has a collective bargaining agreement, have not referred to the Contractor a minority person or woman sent by the Contractor or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under Paragraph 7b above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, Supervisors etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, and providing written notification to, and discussing the Contractor's EEO policy with, other Contractors and subcontractors with whom the Contractor anticipates doing business.

i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notifications to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment-related activities to ensure that the EEO policy and Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (Paragraph 7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under Paragraph 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, reflected in the Contractor's minority and female workforce participation , makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's, and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's non-compliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is under-utilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.

11. The Contractor shall not enter into any subcontract with any person for firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, terminations and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in Paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment-related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application or requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

NOTICE OF REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Economic Areas	Timetables	Goals for Minority participation for each trade (%)	Goals for Female Participation in each trade (%)
Entire State of Vermont:			
Vermont 003 Burlington, VT Non-SMSA Counties NH Coos; NH Grafton: NH Sullivan; VT Addison; VT Caledonia; VT Chitten- den; VT Essex; VT Frank- lin; VT Grand Isle; VT Lamoille; VT Orange; VT Orleans; VT Rutland; VT Washington; VT Windsor	Indefinite	0.8	6.9
Connecticut (Mass) 006 Hartford - New Haven Springfield, CT-MA Non-SMSA Counties CT Litchfield; CT Windham; MA Franklin; NH Cheshire; VT Windham	Indefinite	5.9	
New York 007 Albany - Schnec- tady - Troy, NY Non-SMSA Counties NY Clinton; NY Columbia; NY Essex; NY Fulton; NY Greene; NY Hamilton; NY Sohoharie; NY Warren; NY Washington; VT Bennington	Indefinite	2.6	

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulation in CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3 (a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten working days of award of any construction subcontract in excess of $10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notifications shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

November, 1985
CA-109

CONTRACTOR'S EEO CERTIFICATION FORM

Certification with regard to the Performance of Previous Contracts of Subcontracts subject to the Equal Opportunity Clause and the filing of Required Reports.

The bidder ____, proposed subcontractor _____, hereby certifies that he/she has _____, has not _____, participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246 as amended, and that he/she has _____, has not _____, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

_____	_____	_____
Company	By	Title

NOTE: The above certification is required by the Equal Employment Opportunity regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5 (Generally only contracts or subcontracts of $10,000 or under are exempt.) Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7 (b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration, or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
CERTIFICATE OF COMPLIANCE

For a bid/proposal to be considered valid, this form must be completed in its entirety, executed by a duly authorized representative of the bidder, and submitted as part of the response to the proposal.

A. **NON-COLLUSION:** The undersigned certifies under the penalties of perjury under the laws of the State of Vermont and the United States that it has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid/proposal.

B. **DEBARMENT:** The undersigned certifies under the penalties of perjury under the laws of the State of Vermont and the United States that it:

1. Is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency; and

2. Has not within a three-year period preceding this bid/proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property; and

3. Is not presently indicted for, or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph 2 above; and

4. Has not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

5. **Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this bid/proposal, including whom it applies and dates of action. Exceptions will not necessarily result in denial of award but will be considered in determining bidder eligibility and/or responsibility. Providing false information may result in criminal prosecution or administration sanctions.**

C. **BYRD ANTI-LOBBYING:** The undersigned hereby certifies, by signing and submitting this bid/proposal, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or

employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction as required by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

4. The undersigned also agrees by submitting its bid/proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

E. **WORKER CLASSIFICATION COMPLIANCE REQUIREMENT:** In accordance with Section 32 of The Vermont Recovery and Reinvestment Act of 2009 (Act No. 54), the following provisions and requirements apply to the undersigned when the total project costs exceed $250,000.00.

Bidder is required to self-report the following information relating to past violations, convictions, suspensions, and any other information related to past performance and likely compliance with proper coding and classification of employees. The Agency of Transportation is requiring information on any incidents that occurred in the previous 12 months. Attach additional pages as necessary. **If not applicable, please enter 'Not Applicable' or 'N/A' below.**

Summary of Detailed Information	Date of Notification	Outcome

Bidder hereby certifies that the company/individual is in compliance with the requirements as detailed in Section 32 of Act 54(2009), as amended by Section 17 of Act 142 (2010) and further amended by Section 6 of Act 50 (2011).

Subcontractor Reporting.

A. **Contracts for Services.** The undersigned hereby acknowledges and agrees that if it is a successful bidder, prior to execution of any contract resulting from this solicitation, the undersigned will provide to the State a list of all proposed subcontractors and subcontractors' subcontractors, together with the identity of those subcontractors' workers compensation insurance providers, and additional required or requested information, as applicable, in accordance with Section 32 of The Vermont Recovery and Reinvestment Act of 2009 (Act No. 54), the undersigned will provide any update of such list to the State as additional subcontractors are hired. The undersigned further acknowledges and agrees that the failure to submit subcontractor reporting in accordance with Section 32 of The Vermont Recovery and Reinvestment Act of 2009 (Act No. 54) will constitute non-compliance and may result in cancellation of contract and/or restriction from bidding on future state contracts.

B. **Construction Contracts**. The Contractor is required to provide a list of subcontractors on the job along with lists of subcontractor's subcontractors and by whom those subcontractors are insured for workers' compensation purposes. This is not a requirement for subcontractor's providing supplies only and no labor to the overall contract or project.

   Additionally, the Contractor shall collect and retain evidence of subcontractors' workers' compensation insurance, such as the ACORD insurance coverage summary sheet. Agency of Transportation will periodically verify the Contractor's compliance.

This information must be updated as necessary and provided to the State as additional subcontractors are hired. If none, please enter 'Not Applicable' or 'N/A' below.

Sub-Contractor	Insured By	Sub-Contractor's Sub	Insured By

The undersigned further acknowledges and agrees that the failure to submit subcontractor reporting in accordance with Section 32 of The Vermont Recovery and Reinvestment Act of 2009 (Act No. 54), and as amended will constitute non-compliance and may result in cancellation of contract and/or restriction from bidding on future state contracts.

As a duly authorized representative of the bidder, I hereby certify that the information above is true and correct.

Date: _____

Duly Authorized Signature: _____

Name and Title of Person Signing:
(Duly Authorized Signer) _____

Company Name: _____

Company Address: _____

_____

E-Mail Address: _____

Minimum Labor and Truck Rates
Under Title 19, Vermont Statutes
Annotated Section 18, as amended

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MONTPELIER

FOR OTHER THAN FEDERAL-AID. In accordance with the provisions of Title 19, VSA, Section 18, the following minimum rate for labor shall apply to this project:

The minimum wage for common labor will not be less than the State or Federal minimum wage, whichever is higher.

ON FEDERAL-AID PROJECTS ONLY.

The minimum rates for labor for Federal-Aid Projects shall be those set in the Wage Determination Decision of the U.S. Secretary of Labor for each project in accordance with the Federal-Aid Highway Act of 1956. When such wage rates are required they shall be included in the proposal. In the event these rates are lower than the Vermont rates, the Vermont rates shall prevail.

TRUCK RATES. In accordance with the provisions of Title 19, VSA, Section 18, the following minimum rates for trucks shall apply to this project:

Trucks, not Including Driver Water Level Body Capacity	Minimum Rates Per YD per Hr.
Trucks, Equipment Loaded	$1.65

STATE OF VERMONT

AGENCY OF TRANSPORTATION

MONTPELIER

COMMODITY INDEX PRICES.

(a) Price Adjustment, Asphalt. When Item 690.0300 is included in the Contract, asphalt price adjustment will be performed according to the requirements of Section 690 for all asphalt and emulsified asphalt incorporated into the work, including that incorporated under Special Specification pay items.

(b) Price Adjustment, Fuel. When Item 690.0400 is included in the Contract, fuel price adjustment will be performed according to the requirements of Section 690 for the pay items specified therein, and for any pay items identified in the Special Provisions as being eligible for fuel price adjustment.

(c) Commodity Index Prices. The Index Prices for asphalt and fuel for this Contract are specified in Table 1.

TABLE 1 – COMMODITY INDEX PRICES FOR THIS CONTRACT

	Asphalt (dollars/ton)	Fuel (dollars/gallon)
Index Price	$730.00	$6.00

VERMONT AGENCY OF TRANSPORTATION
PROPOSAL SCHEDULE OF PAY ITEMS

LETTING DATE: 05/15/2026 11:00 AM

CONTRACT ID:C03272

PROJECT(S):FAIRLEE IM 091-2(91)

ITEM NO.	DESCRIPTION	QUANTITY	UNITS
ITEMS COMMON TO ALL ALTERNATES			
201.1000	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	1.000	LS
203.1500	COMMON EXCAVATION	6,300.000	CY
203.2700	UNCLASSIFIED CHANNEL EXCAVATION	590.000	CY
203.3000	EARTH BORROW	800.000	CY
203.3100	SAND BORROW	2,500.000	CY
203.3200	GRANULAR BORROW	800.000	CY
204.2200	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	1.000	CY
204.2500	STRUCTURE EXCAVATION	44,500.000	CY
204.3000	GRANULAR BACKFILL FOR STRUCTURES	2,700.000	CY
210.1000	COARSE-MILLING, BITUMINOUS PAVEMENT	650.000	SY
210.1200	FINE-MILLING, BITUMINOUS PAVEMENT	40,300.000	SY
213.2010	MILLED RUMBLE STRIPS, SHOULDER	18,800.000	LF
225.0500001	TEMPORARY SUPPORT OF EXCAVATION	1.000	LS
240.0100	TEMPORARY ACCESS ROAD (NORTHBOUND ACCESS)	1.000	LS
240.0100	TEMPORARY ACCESS ROAD (SOUTHBOUND ACCESS)	1.000	LS
240.0100004	DIVIDED HIGHWAY CROSSOVER (NORTHBOUND CROSSOVER)	1.000	LS
240.0100004	DIVIDED HIGHWAY CROSSOVER (SOUTHBOUND CROSSOVER)	1.000	LS
301.3500	SUBBASE OF DENSE GRADED CRUSHED STONE	3,150.000	CY
401.1000	AGGREGATE SURFACE COURSE	50.000	CY
402.1300	AGGREGATE SHOULDERS, RAP	275.000	TON
404.1100	TACK COAT, EMULSIFIED ASPHALT	600.000	CWT
406.0230	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III	1,025.000	TON
406.0310	BITUMINOUS CONCRETE PAVEMENT, TYPE IIIS, QA TIER I	4,950.000	TON
406.0430	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER III	750.000	TON
406.2400	BITUMINOUS CONCRETE PAVEMENT, SURFACE PREPARATION, TYPE IVS	10.000	TON
406.9100	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)	1.000	DL
406.9200	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)	1.000	DL
406.9300	PAY ADJUSTMENT, BCP, LONGITUDINAL JOINT DENSITY (N.A.B.I.)	1.000	DL
406.9400	PAY ADJUSTMENT, BCP, PAVEMENT ROUGHNESS (N.A.B.I.)	1.000	DL
410.1000	MATERIAL TRANSFER VEHICLE	6,700.000	TON
514.1000	WATER REPELLENT, SILANE	10.000	GAL
529.1500	REMOVAL OF STRUCTURE (7FT DIA X 290FT LENGTH CMP)	2.000	EACH
540.1000	PRECAST CONCRETE STRUCTURE (18FT X13FT X292FT PRECAST BOX CULVERT)	1.000	LS
541.4500	FLOWABLE FILL	5.000	CY
604.6500	DECOMMISSION DROP INLET	1.000	EACH
608.1500	POWER GRADER RENTAL	10.000	HR
608.2501	ALL-PURPOSE EXCAVATOR RENTAL, TYPE I	10.000	HR
608.3001	POWER BROOM RENTAL, TYPE I	100.000	HR
608.3002	POWER BROOM RENTAL, TYPE II	100.000	HR
608.3700	TRUCK RENTAL	10.000	HR
613.0602	E-STONE FILL, TYPE II	800.000	CY
614.1000	TEMPORARY RELOCATION OF STREAM	1.000	EACH
620.2500	WOVEN WIRE FENCE WITH STEEL POSTS	780.000	LF
620.4000	STEEL BRACE FOR WOVEN WIRE FENCE	12.000	EACH

VERMONT AGENCY OF TRANSPORTATION
PROPOSAL SCHEDULE OF PAY ITEMS

LETTING DATE: 05/15/2026 11:00 AM

CONTRACT ID:C03272

PROJECT(S):FAIRLEE IM 091-2(91)

ITEM NO.	DESCRIPTION	QUANTITY	UNITS
620.5500	REMOVAL OF EXISTING FENCE	840.000	LF
621.0100	REMOVAL OF GUARDRAIL	600.000	LF
621.0210	REMOVE AND RESET GUARDRAIL	200.000	LF
621.0220	ADJUST HEIGHT OF GUARDRAIL	175.000	LF
621.0300	REPLACE GUARDRAIL BEAM UNIT, W-BEAM	15.000	EACH
621.0360	REPLACE GUARDRAIL POST ASSEMBLY, W-BEAM WITH 6 FOOT POSTS	30.000	EACH
621.1060	STEEL BEAM GUARDRAIL	675.000	LF
621.1500	STEEL BEAM GUARDRAIL OFFSET BLOCK	30.000	EACH
621.1530	ANCHOR FOR STEEL BEAM GUARDRAIL, MGS	4.000	EACH
621.1560	TRAFFIC BARRIER DELINEATOR	100.000	EACH
621.3130	MTS, MGS, FLARED, TL-3	1.000	EACH
630.1000	UNIFORMED TRAFFIC OFFICERS	800.000	HR
630.1500	FLAGGERS	150.000	HR
631.1000	FIELD OFFICE, ENGINEER'S	1.000	LS
631.1600	TESTING EQUIPMENT, CONCRETE	1.000	LS
631.1700	TESTING EQUIPMENT, BITUMINOUS	1.000	LS
631.1900	TESTING EQUIPMENT, GROUT	1.000	LS
631.2600	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	6,000.000	DL
633.1000	CPM SCHEDULE	13.000	EACH
635.1100	MOBILIZATION/DEMOBILIZATION	1.000	LS
641.1100	TRAFFIC CONTROL, ALL-INCLUSIVE (NORTHBOUND BARREL AND CROSSOVER)	1.000	LS
641.1100	TRAFFIC CONTROL, ALL-INCLUSIVE (SOUTHBOUND BARREL AND CROSSOVER)	1.000	LS
641.1500	PORTABLE CHANGEABLE MESSAGE SIGN	4.000	EACH
641.1600	PORTABLE ARROW BOARD	4.000	EACH
646.6200	TEMPORARY 6 INCH WHITE LINE	25,750.000	LF
646.6212	TEMPORARY 6 INCH WHITE LINE, TYPE C TAPE	700.000	LF
646.6300	TEMPORARY 6 INCH YELLOW LINE	20,000.000	LF
646.6600	TEMPORARY 12 INCH WHITE LINE	650.000	LF
646.7600	LINE STRIPING TARGETS	4,800.000	EACH
649.1100	GEOTEXTILE FOR ROADBED SEPARATOR	1,965.000	SY
649.3100	GEOTEXTILE UNDER STONE FILL	550.000	SY
651.1500	TURF ESTABLISHMENT, GENERAL SEED	38,100.000	SY
651.1600	TURF ESTABLISHMENT, SPECIALTY SEED (POLLINATOR DRY MIX)	15,500.000	SY
651.1600	TURF ESTABLISHMENT, SPECIALTY SEED (POLLINATOR WET MIX)	1,000.000	SY
651.3500	TOPSOIL	700.000	CY
651.4012	GRUBBING MATERIAL, 12 INCH	400.000	SY
653.0100	EPSC PLAN	1.000	LS
653.0200	MONITORING EPSC PLAN	120.000	HR
653.0300	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	3,000.000	DL
653.1000	HAY MULCH	18.000	TON
653.1200	STRAW MULCH	3.000	TON
653.2001	ROLLED EROSION CONTROL PRODUCT, TYPE I	16,050.000	SY
653.2501	CHECK DAM, TYPE I	150.000	CY
653.3500	STABILIZED CONSTRUCTION ENTRANCE	210.000	CY
653.4001	INLET PROTECTION DEVICE, TYPE I	21.000	EACH

VERMONT AGENCY OF TRANSPORTATION
PROPOSAL SCHEDULE OF PAY ITEMS

LETTING DATE: 05/15/2026 11:00 AM

CONTRACT ID:C03272

PROJECT(S):FAIRLEE IM 091-2(91)

ITEM NO.	DESCRIPTION	QUANTITY	UNITS
653.4002	INLET PROTECTION DEVICE, TYPE II	1.000	EACH
653.4003	INLET PROTECTION DEVICE, TYPE III	40.000	CY
653.4500	FILTER BAG	4.000	EACH
653.4701	SILT FENCE, TYPE I	1,160.000	LF
653.4702	SILT FENCE, TYPE II	1,000.000	LF
653.5000	BARRIER FENCE	700.000	LF
653.5500	PROJECT DEMARCATION FENCE	1,700.000	LF
653.6000	EROSION LOG	2,600.000	LF
656.1200	TUBELINGS	80.000	EACH
656.6500	LANDSCAPE WATERING	12.000	MGAL
656.8000	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	31.000	CY
675.2000	TRAFFIC SIGN, FLAT SHEET ALUMINUM	8.840	SF
675.3100	W-SHAPE STEEL SIGN POST	1,060.000	LB
675.4100	FOUNDATION FOR W-SHAPE STEEL POST, 24 INCH DIAMETER	2.000	EACH
675.5000	SIGN REMOVAL, FLAT SHEET ALUMINUM	6.000	EACH
675.5100	SIGN REMOVAL, EXTRUDED ALUMINUM	3.000	EACH
675.6000	RESETTING SIGNS	3.000	EACH
676.1000	DELINEATOR WITH STEEL POST	7.000	EACH
676.1200	REMOVAL OF EXISTING DELINEATOR AND POST	7.000	EACH
690.0300	PRICE ADJUSTMENT, ASPHALT (N.A.B.I.)	1.000	DL
690.0400	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	1.000	DL
OPTION - PAVEMENT MARKING OPTIONS - EPOXY PAINT ITEMS			
646.4230	DURABLE 6 INCH WHITE LINE, EPOXY PAINT	13,500.000	LF
646.4330	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	10,500.000	LF
646.4630	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	325.000	LF
OPTION - PAVEMENT MARKING OPTIONS - POLYUREA ITEMS			
646.4240	DURABLE 6 INCH WHITE LINE, POLYUREA	13,500.000	LF
646.4340	DURABLE 6 INCH YELLOW LINE, POLYUREA	10,500.000	LF
646.4640	DURABLE 12 INCH WHITE LINE, POLYUREA	325.000	LF