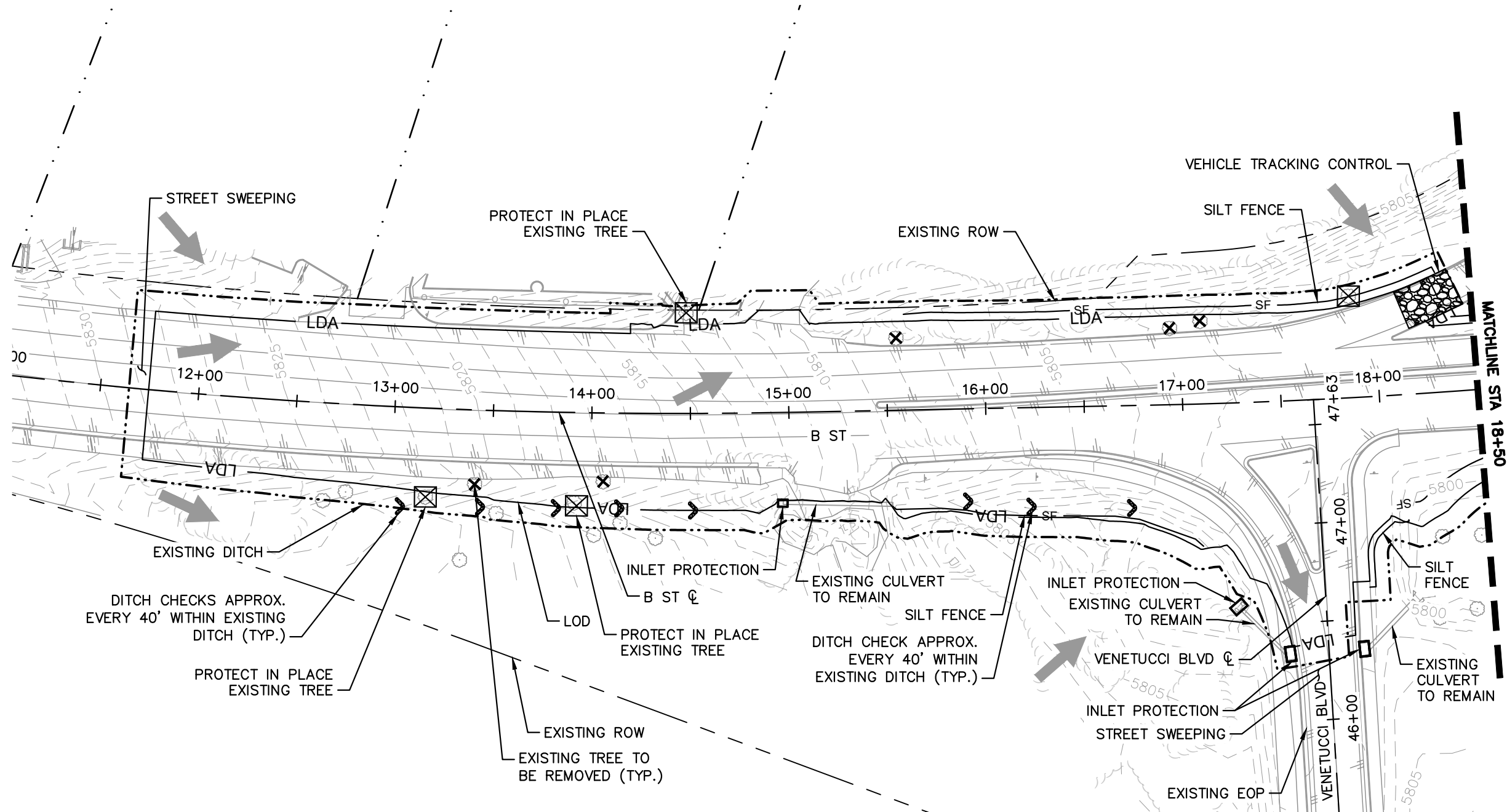


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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
-----	LIMITS OF CONSTRUCTION (LOC)	✓	EROSION LOG DITCH CHECK
-----LDA-----	LIMITS OF DISTURBANCE (LOD)	⊗	TREE PROTECTION
←	FLOW ARROW (DIRECTION OF FLOW)	✕	TREE TO BE REMOVED
□	INLET PROTECTION	⊠	CONCRETE WASHOUT AREA
⬢	VEHICLE TRACKING CONTROL	▨	SOIL STOCKPILE
-----PF-----	PLASTIC FENCE	▩	STABILIZED STAGING AREA
-----SF-----	SILT FENCE		

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KIMLEY-HORN AND ASSOCIATES, INC.
6200 SOUTH SYRACUSE WAY
SUITE 300
GREENWOOD VILLAGE, COLORADO 80111
(303) 228-2300




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Date:	Comments:	Init.

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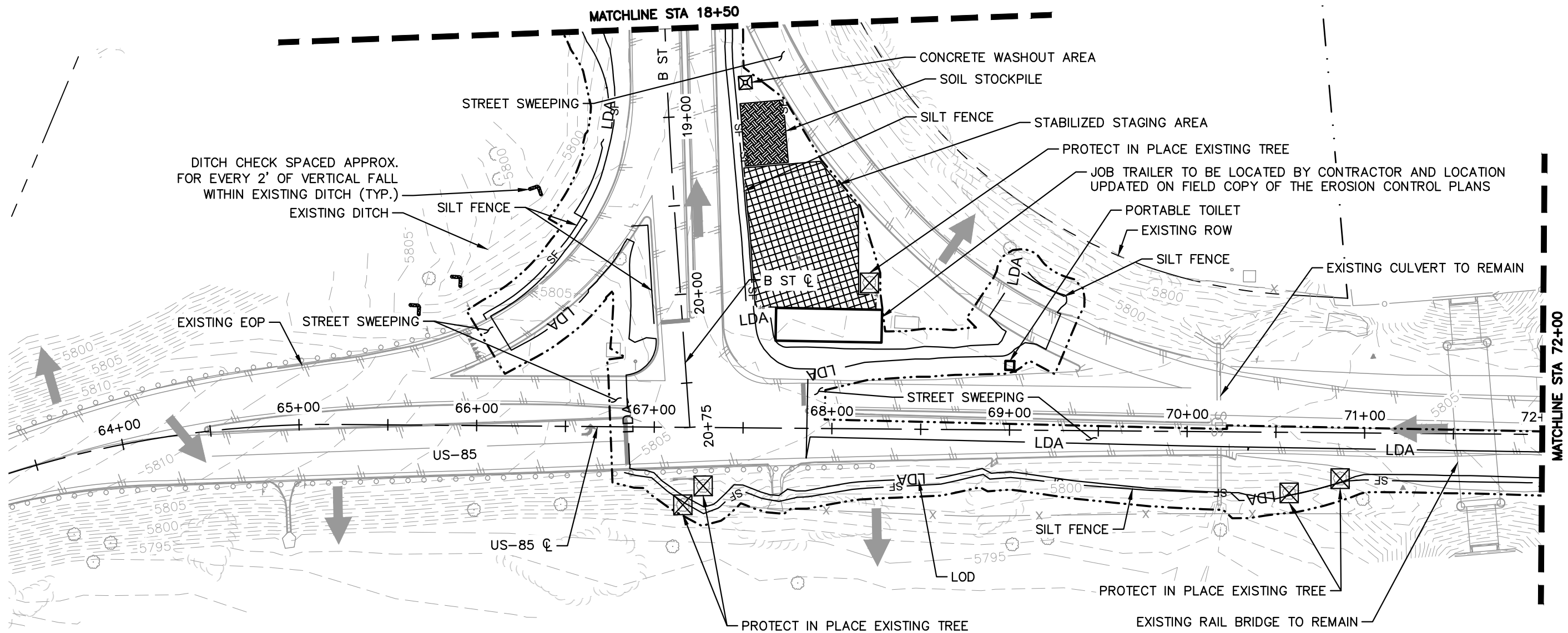


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No Revisions:		Designer: CAS		PROJECT NO
Revised:		Detailer: IMY		196825002
Void:		Sheet Subset: SWMP-INITIAL	Subset Sheet: 1 of 3	Sheet Number C946

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	VEHICLE TRACKING CONTROL		SOIL STOCKPILE
— PF —	PLASTIC FENCE		STABILIZED STAGING AREA
— SF —	SILT FENCE		


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KIMLEY-HORN AND ASSOCIATES, INC.

6200 SOUTH SYRACUSE WAY

SUITE 300

GREENWOOD VILLAGE, COLORADO 80111

(303) 228-2300

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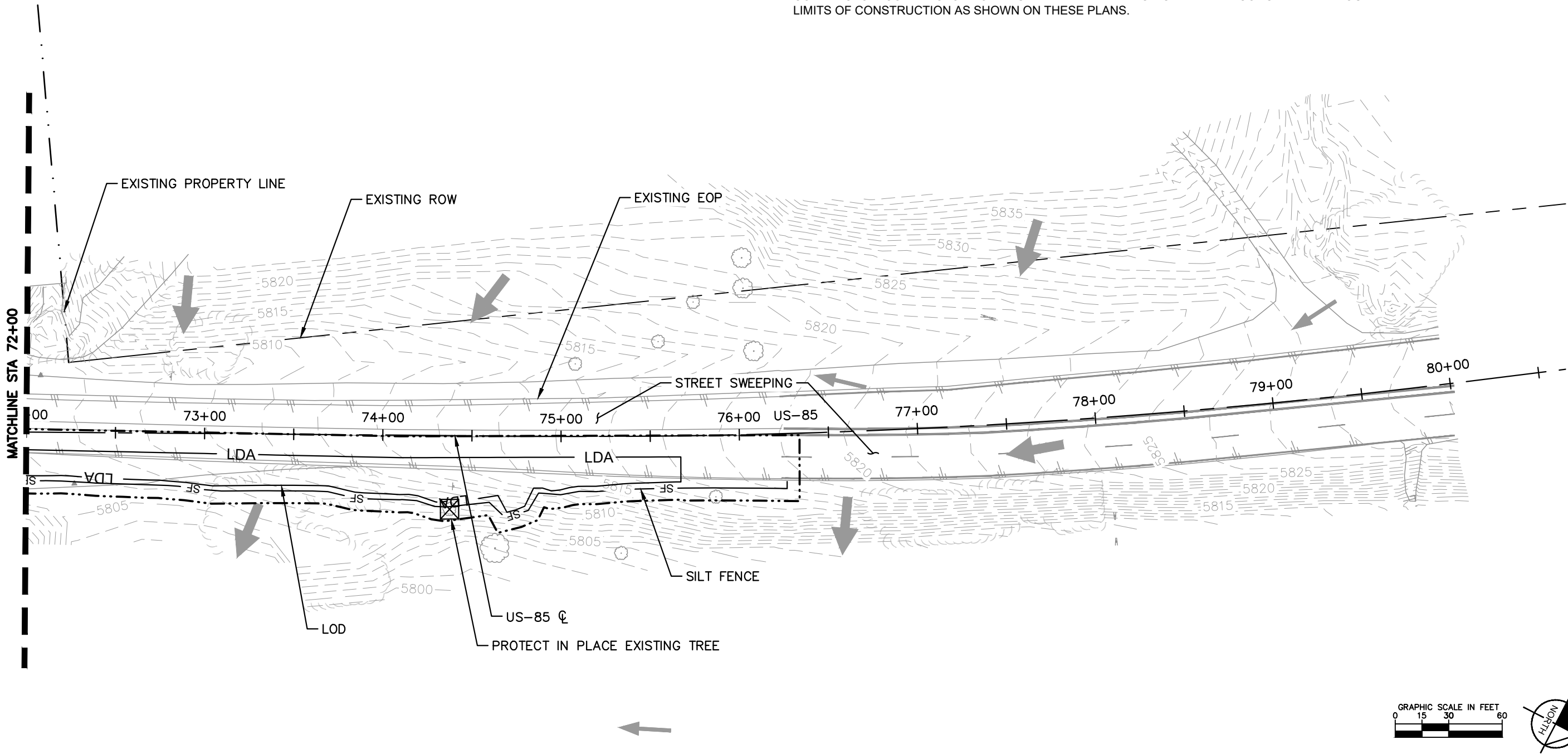
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Void:		Sheet Subset: SWMP-INITIAL	Subset Sheet: 2 of 3	Sheet Number C947

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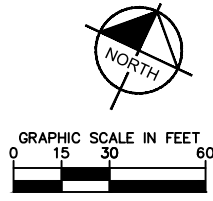
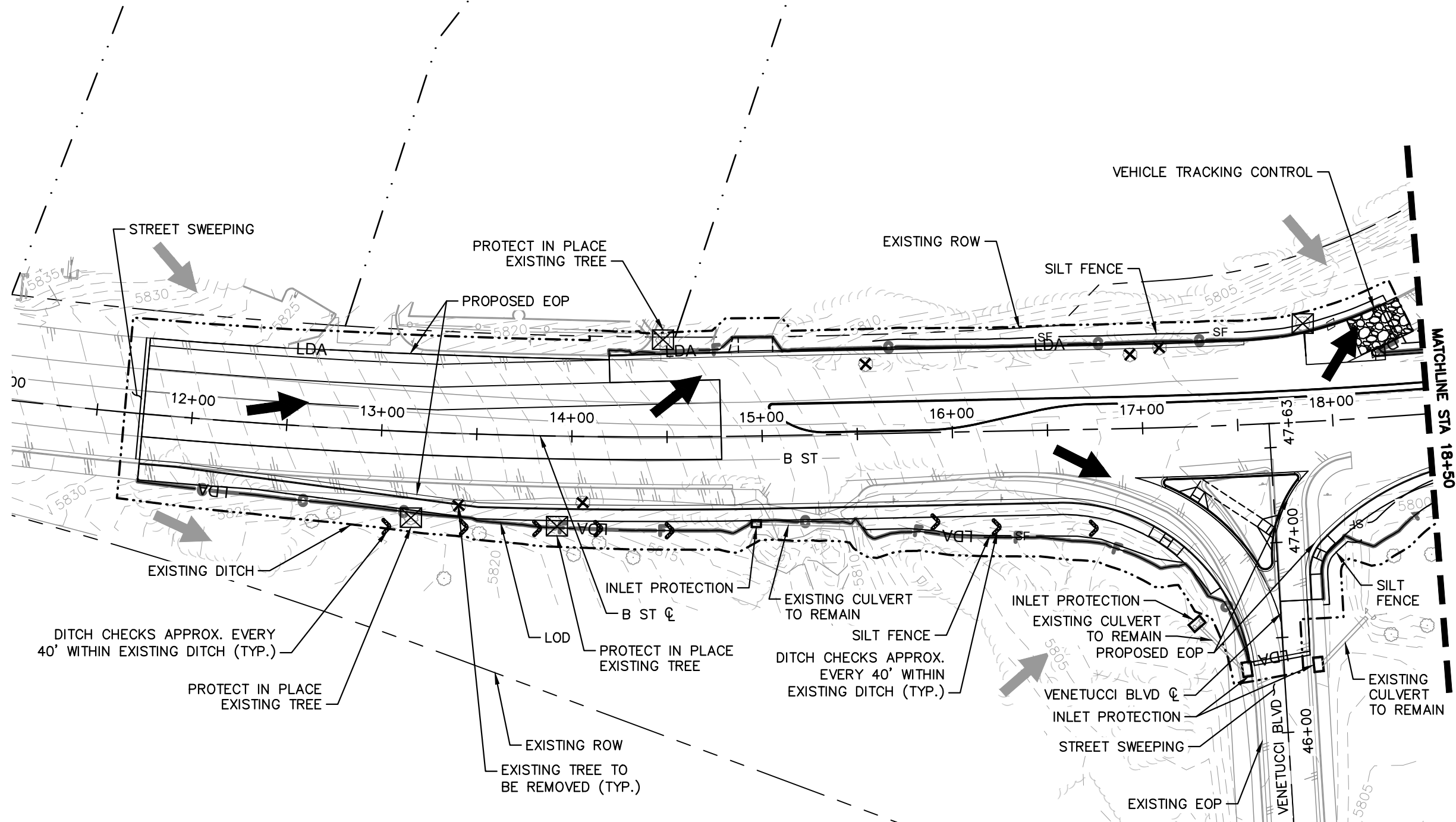




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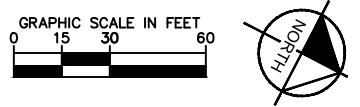
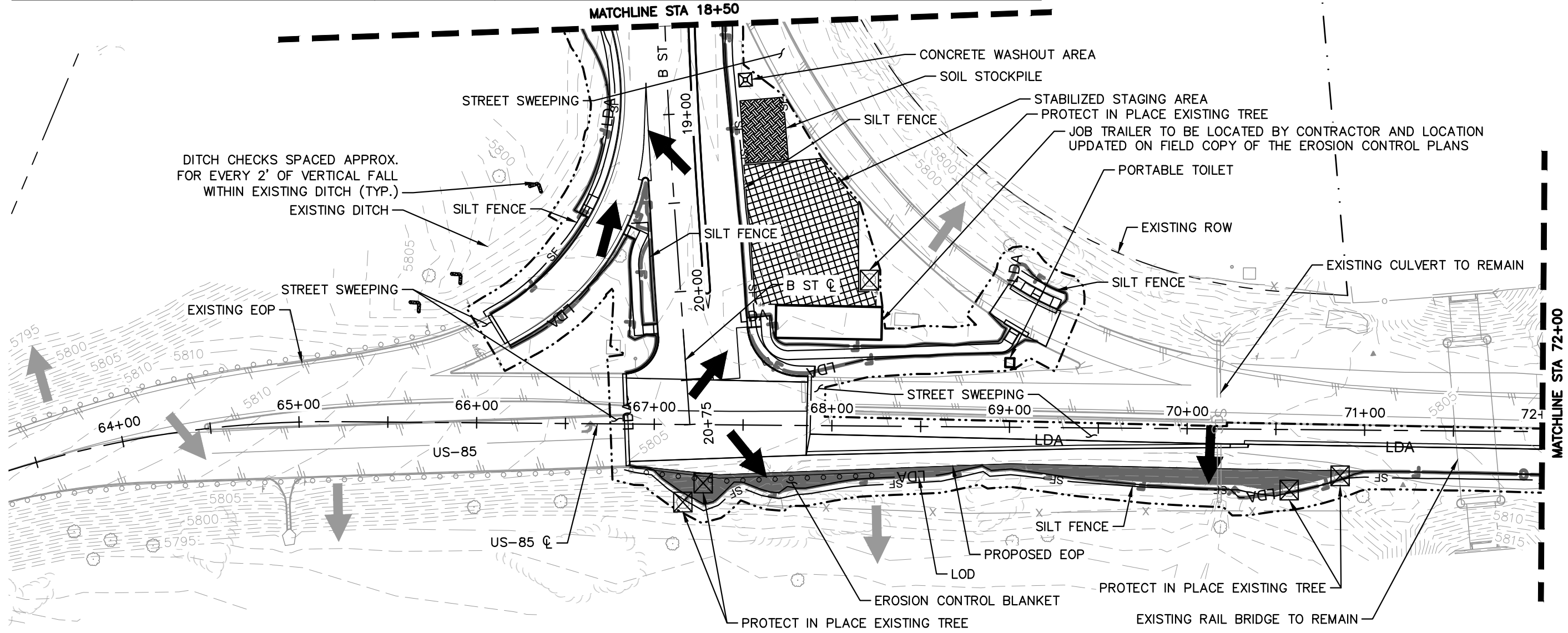


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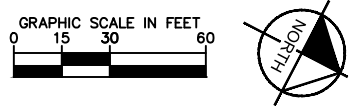
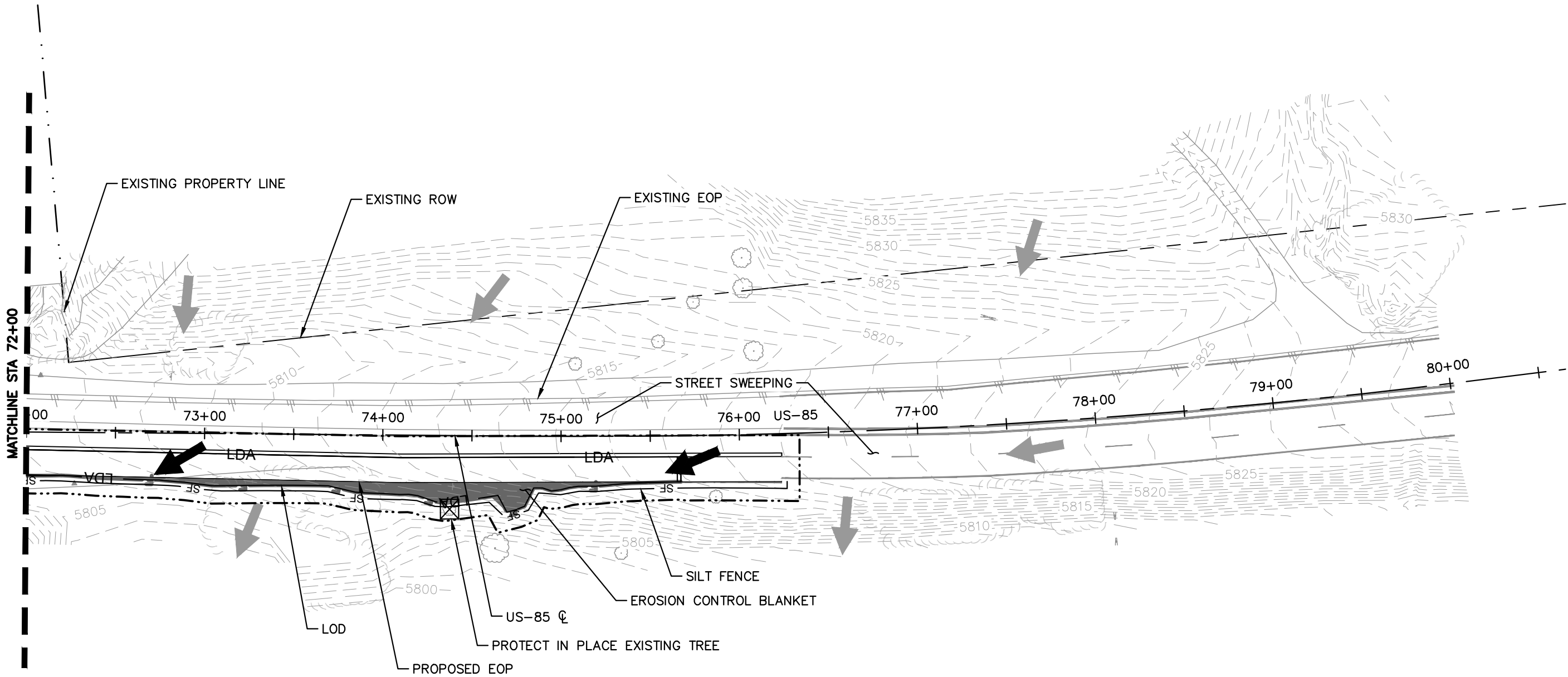




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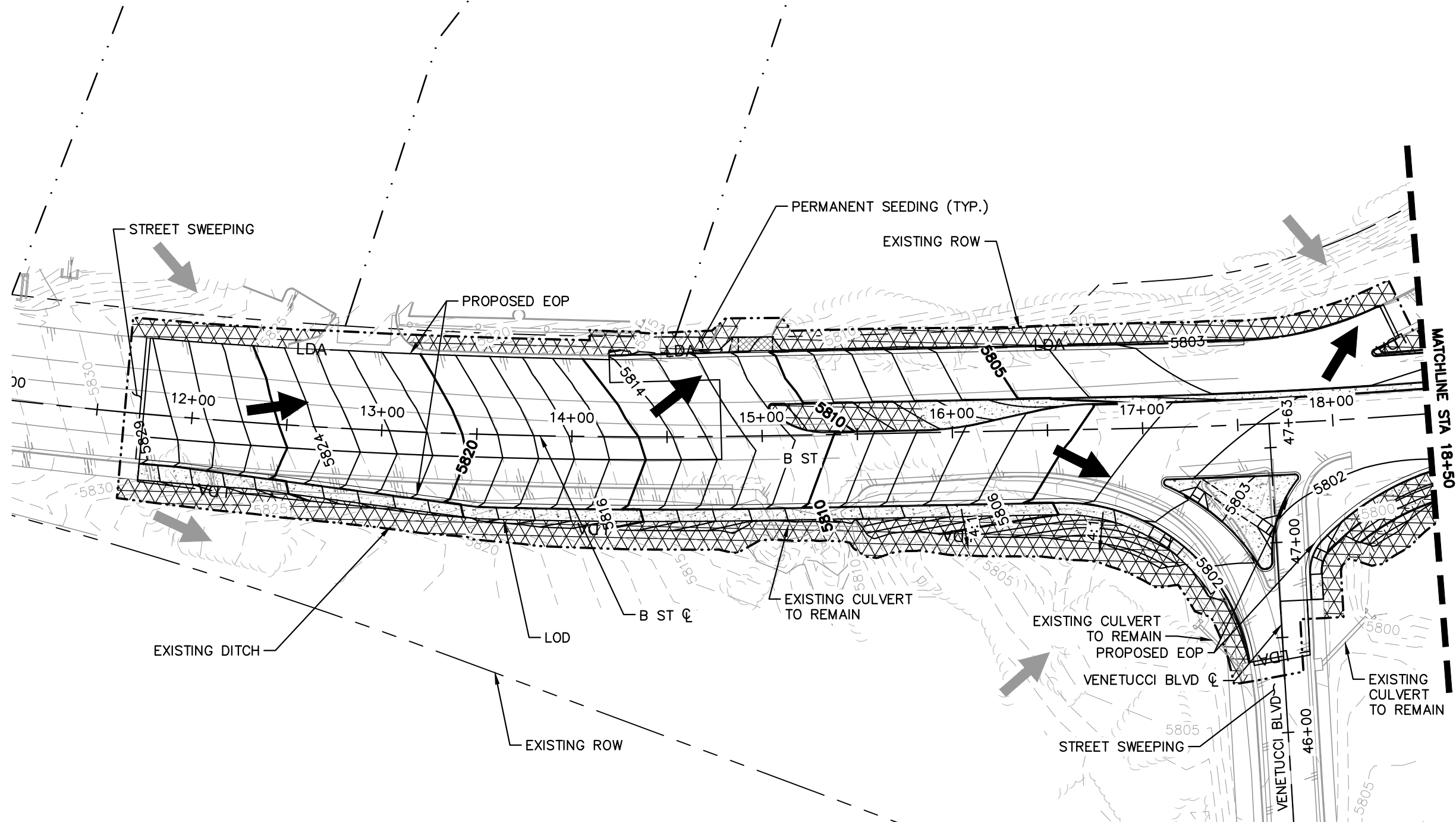
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SYMBOL	DESCRIPTION
.....	LIMITS OF CONSTRUCTION (LOC)
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▬	EROSION CONTROL BLANKET
XXXX	SEEDING (NATIVE)

- FINAL SWMP NOTES:
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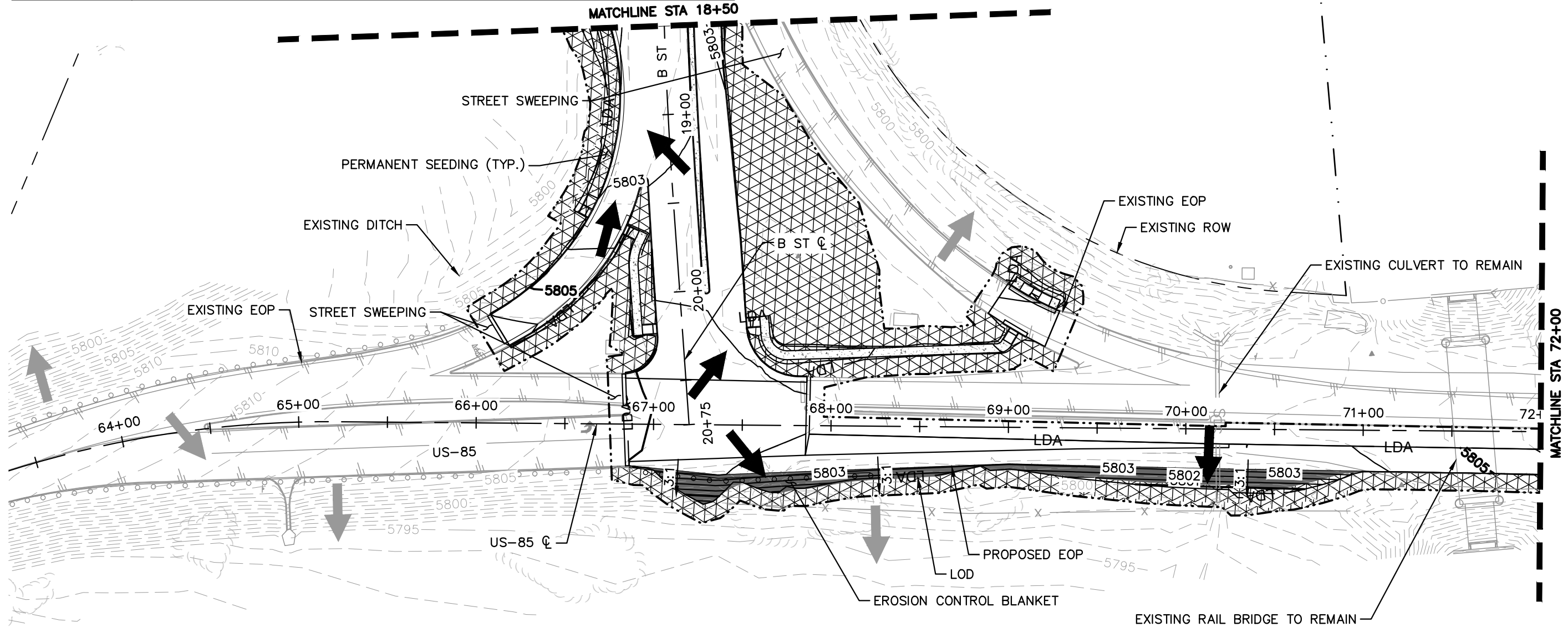
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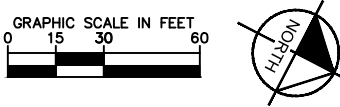
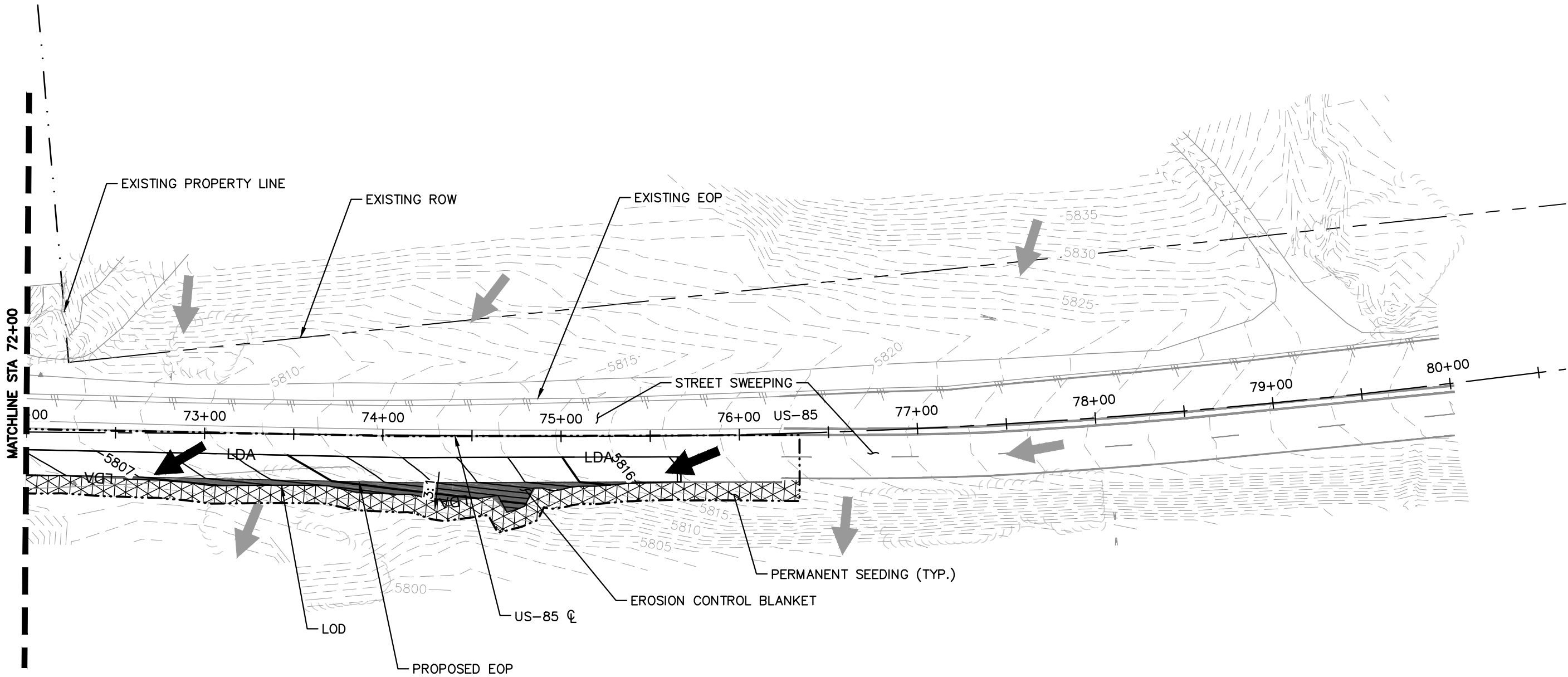
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Revised:		Detailer: IMY		196825002
Void:		Sheet Subset: SWMP-FINAL	Subset Sheet: 2 of 3	Sheet Number C953

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SYMBOL	DESCRIPTION
.....	LIMITS OF CONSTRUCTION (LOC)
— LDA —	LIMITS OF DISTURBANCE (LOD)
➔	FLOW ARROW (DIRECTION OF FLOW)
▬	EROSION CONTROL BLANKET
XXXX	SEEDING (NATIVE)

FINAL SWMP NOTES:


1. THE PERMANENT SWMP NOTES SPECIFY SEEDING AND MULCHING REQUIREMENTS FOR THE AREAS ONCE SALVAGED TOPSOIL IS PLACED AND GRADES ARE APPROVED. THE REQUIREMENTS OF THE PLANS ARE BASED ON DECISIONS THROUGH THE PROJECT DEVELOPMENT PROCESS AND SPECIFIC SITE CONDITIONS IDENTIFIED.
2. ONCE AN AREA HAS REACHED PERMANENT STABILIZATION, THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL IDENTIFY THE AREA ON THE PLANS AND DATE WHEN THE WORK WAS COMPLETED.
3. NO CONTROL MEASURES (CMS) FROM THE INITIAL OR INTERIM SHEETS ARE SHOWN. ALL CMS THAT THE CDOT REGION WATER POLLUTION CONTROL MANAGER AND THE ENGINEER DETERMINE WILL REMAIN AFTER PERMANENT STABILIZATION ACTIVITIES SHALL BE SHOWN ON THE FINAL SWMP SITE MAPS.



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Drawing File Name: c-swmp-final.dwg

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KIMLEY-HORN AND ASSOCIATES, INC.

6200 SOUTH SYRACUSE WAY

SUITE 300

GREENWOOD VILLAGE, COLORADO 80111

(303) 228-2300

Sheet Revisions		
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VENETUCCI BLVD. & B ST.
ACCESS PERMIT #224121



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1. **Site Description**

The Contractor shall comply with all CDOT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. **Project Site Location:**

The proposed Venetucci Boulevard and B Street Access Project (the "Project") is located at the intersection of US-85 (Venetucci Blvd./CanAm Highway) and B Street in Colorado Springs, CO.
Location or address of construction office: TBD

B. **Project Site Description:**

- The Project will consist of the following improvements:
- Widening US-85 to the east to accommodate a dual left turn onto US-85.
 - Widening B Street to the south to accommodate a dedicated right turn lane.
 - Repaving along US-85, B Street, and Venetucci Boulevard.
 - New conduit for a new traffic signal at the B Street and US-85 intersection.
 - New concrete sidewalk and curb ramps along the south and north sides of B Street and west side of US-85.
 - Median and porkchop island improvements to accommodate revised lane configurations.

These improvements will require regrading a portion of the roadway and surrounding landscape areas. This project will pave and landscape within the Limits of Disturbance. Within the proposed disturbance area (LDA), the percentage of existing vegetation is 17%.

C. **Proposed Schedule for Sequence for Major Construction Activities:**

The Project will include mobilization, clearing & grubbing, grading, pavement and concrete installation, and signal conduit and pole installation. Stabilize all areas that are not paved or landscaped through establishment of vegetation cover.

D. **Acres of Disturbance:**

1. Total area of construction site (LOC (PERMITTED AREA)): 3.70 acres
2. Total area of proposed disturbance (LDA): 2.47 acres
3. Total area of seeding: 1.19 acres
4. Total area of pre-project impervious surface: 77,207 sq. ft.
5. Total area of final impervious surface: 95,134 sq. ft.

E. **Existing Soil Data:**

The following soil types and hydrologic soil groups were listed for the Project area on the NRCS Web Soil Survey:

- Limon Clay, 0% to 3% slopes, Hydrologic Soil Group C
- Nunn Clay Loam, 0% to 3% slopes, Hydrologic Soil Group C

Data Source(s): NRCS Custom Soil Resource Report for El Paso County Area, Colorado, dated October 2024

F. **Existing Vegetation, Including Percent of Vegetative Cover:**

During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the CDPS-SCP.

Pre-Construction Date of survey: 2025 Percent Existing Vegetative Cover: 50%-85%
Description of existing vegetation: Native vegetation and existing trees

Method for determining percent vegetative cover: Aerial imagery

Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP Tab 17:

Post-Construction Date of survey: _____ Percent Vegetative Cover: _____
Description of vegetation:

The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.

Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP Tab 17:

G. **Potential Pollutants Sources:**

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. **Drainage Patterns and Receiving Water(s):**

1. Description of drainage patterns from the Site:
Flows generally drain to the edges of the road and are collected by existing ditches and storm infrastructure.
2. Names of immediate and ultimate receiving water(s) on site:
Immediate receiving water: Existing roadside ditches
Ultimate receiving water: Clover Ditch / Fisher's Canyon
3. Description of all stream crossings located within the Limits of Construction:
No stream crossings are present on the Project.

I. **Allowable Non-Stormwater Discharges:**

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs	N/A	
Concrete and Masonry Washout Water (in-ground washout structure) #	N/A	
Landscape Irrigation Return Flows	N/A	
Discharges from Diversions of State Waters	N/A	
Emergency Fire Fighting	N/A	
Discharges to the ground of water used to wash vehicles, equipment, and external buildings	N/A	

#Concrete and masonry washout water associated with the washing of concrete and masonry tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters. Soaps and solvents shall not be added to concrete and masonry washout water.

J. **Diversion Criteria:**

1. Is a diversion planned for the Site? Yes _____ No X_____.
2. If yes, complete information below:
 - a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)?
 - b. What are the monthly averages if available? (provide averages for Jan-Dec if available)
 - c. What is the upstream contributing drainage area and imperviousness?
 - d. A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP.
 - e. If the conditions in the SCP cannot be met and an alternative is required, CDOT must approve the alternative and then it must be submitted and approved by CDPHE's Water Quality Control Division prior to implementation.

2. **Site Map Components:**

Pre-construction

A. **Project Construction Potential Site Boundaries:**

See SWMP Site Maps Sheets C942-C950

B. **Flow Arrows that Depict Stormwater Flow Directions On-Site, Run-On and Runoff Direction:**

See SWMP Site Maps Sheets C942-C950



C. **All Areas of Ground Surface Disturbance:**

See SWMP Site Maps Sheets C942-C950

D. **Areas of Cut and Fill:**

See SWMP Site Maps Sheets C942-C950

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- E. Areas Used for Storing and Stockpiling of Materials, Staging Areas (field trailer, fueling, etc.) and Locations of All Waste Storage and Batch Plants Including Masonry Mixing Stations:
See SWMP Site Maps Sheets C942-C950. To be confirmed by Contractor.
- F. Location of All Structural Control Measures Identified in the SWMP:
See SWMP Site Maps Sheets C942-C950
- G. Location of Non-Structural Control Measures as Applicable in the SWMP:
See SWMP Site Maps Sheets C942-C950
- H. Springs, Streams, Wetlands, Diversions, And Other State Waters Within or Bordering The Site, Including Areas That Require Pre-Existing Vegetation Be Maintained Within 50 Feet Of A Receiving Water:
There are no streams, springs, wetlands, diversions, or other State Waters within the Project limits that require pre-existing vegetation to be maintained within 50-feet of the receiving water.
- I. Locations of All Stream Crossing Located Within the Limits of Construction:
Not applicable.
- J. Protection of Trees, Shrubs, Sensitive Habitat, and Cultural Resources:
See SWMP Site Maps Sheets C942-C950
- K. Locations of Pumped Stormwater Including Intake and Discharge Points and Locations of Dewatering Activities
Not applicable.

3. **Qualified Stormwater Managers:**

- A. SWMP Administrator for Design:
CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Amy Esswein / Civil Engineer	(719) 501-1858 amy.esswein@kimley-horn.com	9EAB9853

- B. SWMP Administrator for Construction: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining, and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of current TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Certification Expiration Date	Start Date

- C. Erosion Control Inspector: (As defined in Section 208) The Contractor shall designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03(c) (Copy of current TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Certification Expiration Date	Start Date

- D. Permanent Stabilization Subject Matter Expert: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.
1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.

2. Attend the Environmental Pre-Construction Conference.

3. Coordinate the Site Pre-Vegetation Conference.

4. Review and recommend approval of products.

5. Attend the Partial Landscape Completion Walkthrough.

6. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]

4. **Stormwater Management Controls for Initial Construction Activities Associated with Water Quality**

The Contractor Shall Perform the Following:

- A. Potential Pollutant Sources:
Evaluate, identify, locate, and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP, and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.
- B. Offsite Drainage (Run on Water):
Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.
- C. Vehicle Tracking Control:
Control measures shall be implemented in accordance with subsection 208.04.
- D. Perimeter Control:

1. Temporary control measures shall be installed prior to commencing construction activities associated with water quality in accordance with subsection 208.04.

2. Perimeter control may consist of berms, silt fence, erosion logs (sediment control logs), existing landforms, or other control measures as approved.



5. **During Construction**

Responsibilities of the SWMP Administrator for Construction: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, the SWMP Administrator for Construction shall have full responsibility to maintain and update the SWMP in accordance with subsection 208.03(c).

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

- A. Materials Handling and Spill Prevention and Response Plan: Prior to commencing Construction Activities Associated with Water Quality, the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.
- B. Other CDPS Permits or Guidance Documents: List applicable CDPS permits or guidance documents associated with the permitted site and activities.
- C. Stockpile Management: Shall be done in accordance with subsections 107.25 and 208.07.
- D. Concrete Washout: Concrete and masonry washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

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11. Narratives



Control Measure Matrixes During Construction:

- 1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer, the SWMP Administrator for Construction shall: Place an "X" in the column "M-208 Standard or 'X' for Non-Standard" and complete a Non-Standard Control Measure Specification and Narrative. The Narrative shall include drawings, dimensions, installation information, materials, implementation processes, control measure-specific inspection expectations, and maintenance requirements of the control measure. The appropriate "X" shall also be added to the implementation phase(s).
- 2. The SWMP Administrator for Construction shall place an "X" in the column "In Use On Site" when the control measure has been installed.
- 3. A "B" in the "Initial Activities" column indicates that the control measure shall be installed **before** construction activities associated with water quality commence. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

Structural Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

Application, Control measure	Narrative	M- 208 Standard or "X" For Non- Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Protection of Existing Wetlands Fence (plastic) and erosion logs (sediment control logs)	Fence (plastic) shall be placed in combination with erosion logs (sediment control logs) to prevent encroachment of construction traffic and sediment into state waters prior to start of construction activities associated with water quality. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs (sediment control logs) shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.					
Protection of Existing Trees/Landscaping Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction activities associated with water quality.	M-208	X	B	X	
Check Dam/Ditch Check Erosion log (sediment control log), silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction activities associated with water quality.	M-208	X	B	X	
Storm Drain Inlet Protection in Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction activities associated with water quality as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208	X	B	X	
Storm Drain Inlet Protection in Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs (sediment control logs) or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction activities associated with water quality to protect existing inlets or immediately upon completion of new inlets.	M-208	X	B	X	
Culvert Inlet/Outlet Protection Erosion logs (sediment control logs), aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction activities associated with water quality.	M-208				
Type C, Type D And Type 13 Protection Erosion logs (sediment control logs), aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction activities associated with water quality.	M-208				
Stockpile Protection Temporary berm, erosion logs (sediment control logs), aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the workday. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208	X	X	X	
Toe of Fill Protection Erosion logs (sediment control logs), temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208				
Perimeter Control Erosion logs (sediment control logs), silt fence, temporary berms	Placed prior to construction activities associated with water quality commencing to address potential run-on water from off site, and to divert around disturbed area.	M-208		B	X	
Slope Control Silt fence, erosion logs (sediment control logs)	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction activities associated with water quality.	M-208				
Temporary Sediment Trap	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction activities associated with water quality. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
Temporary Slope Drain	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				

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Application, Control measure	Narrative	M- 208 Standard or "X" For Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Outlet Protection <i>Riprap, or approved other</i>	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				
Concrete Washout <i>In-ground or fabricated</i>	Construction control, used for waste management of concrete/masonry and concrete/masonry equipment cleaning. Place prior to the start of concrete and masonry activities.	M-208		X	X	
Vehicle Tracking Pad	Vehicle tracking pads shall be used at all vehicle and equipment exit points from the site to prevent sediment exiting the LOC. Place prior to the start of construction activities associated with water quality.	M-208		B	X	
Engineered Sediment Basin	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(q) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible					
Dewatering <i>(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)</i>	Shall be done in such a manner to prevent potential pollutants from entering State waters.					
Temporary Stream Crossing	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.					
Clean Water Diversion	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.					
Other						

Non-Structural Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

Application, Control measure	Narrative	M- 208 Standard Or "X" for Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Vegetative Buffer Strip	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction activities associated with water quality starting. Upgradient control measures must be installed immediately adjacent to vegetative buffers.					
Grading Applications <i>(Landform)</i>	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction activities associated with water quality starting.	M-208				
Topsoil Management <i>Stockpile/Salvage Stockpile</i>	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or	M-208		X	X	



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	windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.					
Surface Roughening / Grading Techniques	Daily stabilization of disturbance and to minimize wind erosion.	X		X	X	
Seeding (Temporary)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.	X			X	
Bonded Fiber Matrix or Mulching (Hydraulic)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Temporary or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
Straw or Hay Mulch/Mulch Tackifier	Temporary or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Temporary Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer	X			X	
Spray-On Mulch Blanket (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Temporary or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
Seeding Permanent (Native Perennial)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	X				X
Soil Retention Blanket (SRB)	Temporary or Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216			X	X
Turf Reinforcement Mat (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from leaving the LOC. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.	X		X	X	X
Other						

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<div><div><div>KIMLEY-HORN AND ASSOCIATES, INC.</div><div>6200 SOUTH SYRACUSE WAY</div><div>SUITE 300</div><div>GREENWOOD VILLAGE, COLORADO 80111</div><div>(303) 228-2300</div></div></div>								Void:		Detailer: IMY			Sheet Number C960	
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12. Tabulation of Stormwater Quantities

- A. Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.
- B. It is estimated that 2 hours of blading (140-250 horsepower), dozing (130-250 horsepower) and/or combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Blading and 203 Dozing.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const	Interim Const.	Permanent Stabilization	*Total Quantity
	202-04002	Clean Culvert	Each		4		4
	203-01500	Blading	Hour		4		4
	203-01550	Dozing	Hour		4		4
	208-00009	Erosion Log Type 2 (18 Inch)	LF	121			121
	208-00020	Silt Fence	LF	2148			2148
	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each	1			1
	208-00051	Storm Drain Inlet Protection (Type I)	LF	37			37
	208-00070	Vehicle Tracking Pad	Each	1			1
	208-00103	Removal and Disposal of Sediment (Labor)	Hour			10	10
	208-00105	Removal and Disposal of Sediment (Equipment)	Hour			10	10
	208-00106	Sweeping (Sediment Removal)	Hour		5	5	10
	208-00107	Removal of Trash	Hour			5	5
	208-00207	Erosion Control Management (ECM)	Day	9	9		18
	212-00700	Organic Fertilizer	Pounds			357	357
	212-00701	Compost (Mechanically Applied)-	CY			4165	4165
	212-00704	Mycorrhizae	Pounds			10	10
	212-00706	Seeding (Native) Drill	Acre			1.19	1.19
	213-00002	Mulching (Weed Free Hay)	Acre			1.19	1.19
	213-00061	Mulch Tackifier	LB			2200	2200
	216-00211	Soil Retention Blanket (Excelsior) (Biodegradable Class 1)	SY		498		498
	607-11525	Fence (Plastic)	LF	332			332

*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

**Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.



13. Biological Impacts and Dewatering

- A. Environmental Impacts:
1. Wetland Impacts: No
2. Stream Impacts: No
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.
- B. Dewatering:
(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):
https://drive.google.com/open?id=17ck1ZJoiHSacJ_wxp2FfUr4rAxNgVWZv
1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

14. Notes

- Assumed 10 hours for removal and disposal of sediment (labor and equipment) for the Project.
- Assumed 10 hours of sweeping for the Project.
- A Construction Stormwater Permit will be required to be obtained through El Paso County.
- Erosion log ditch check spacing was calculated by placing an erosion log ditch check for every 2' of vertical fall in existing ditches.

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