

LYONS UTE HIGHWAY STREAMBANK STABILIZATION PROJECT

LYONS, COLORADO

FEBRUARY 2024



VICINITY MAP

As-built survey performed by
Flatirons, Inc. 12-2-2024.
ALTA survey attached. Overlay with
Streambank Stabilization design
performed by Werner Water
Engineering, LLC. 2-26-2025

GENERAL NOTES:

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES ON-SITE, COORDINATE CONSTRUCTION WITH ALL UTILITY OWNERS AND BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR MUST SCHEDULE ANY REQUIRED UTILITY ADJUSTMENTS WITH THE UTILITY OWNER TO ELIMINATE CONFLICTS.
2. THE CONTRACTOR SHALL CONFORM TO ALL PLAN AND SPECIFICATIONS SHOWN HEREIN AND NOTIFY THE ENGINEER IMMEDIATELY UPON THE DISCOVERY OF CONFLICTS OR CHANGES NOT CONSISTENT WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL HAVE COPIES OF ANY REQUIRED PERMITS ON SITE AT ALL TIMES AND COMPLY WITH ALL REQUIREMENTS OF ALL PERMITS AT ALL TIMES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL REQUIRED PLANS, INCLUDING DELIVERY AND STORAGE OF MATERIALS AND SITE EQUIPMENT, SITE ACCESS, EROSION CONTROL, TRAFFIC CONTROL, WATER CONTROL, AND DE-WATERING.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING SITE INFRASTRUCTURE AND VEGETATION AS DIRECTED BY THE OWNER'S REPRESENTATIVE, INCLUDING BUT NOT LIMITED TO, CONCRETE, ASPHALT, SITE CIRCULATION PATHS, CURB AND GUTTER, PIPES, TREES, SHRUBS, GRASSES AND ALL SOFT OR HARDCAPE OUTSIDE OF THE IMMEDIATE CONSTRUCTION AREA AND ITS REPLACEMENT IN THE EVENT OF DAMAGE TO EQUAL OR BETTER CONDITION.
6. IN AREAS OF DISTURBANCE, THE CONTRACTOR SHALL REMOVE AND STOCKPILE THE TOP 6" OF TOPSOIL AND REPLACE AND RE-VEGETATE AFTER CONSTRUCTION. SALVAGED TOPSOIL SHALL BE STOCKPILED IN AREAS THAT SHALL NOT INTERFERE WITH CONSTRUCTION PHASES AND AT LEAST 15 FEET AWAY FROM AREAS OF CONCENTRATED FLOWS OR PAVEMENT. THE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2:1 HORIZONTAL TO VERTICAL. A SILT FENCE OR OTHER ADEQUATE EROSION CONTROL SHALL BE INSTALLED AROUND THE PERIMETER OF EACH STOCKPILE. TOPSOIL FROM ANY RIPARIAN AREAS SHALL BE STOCKPILED SEPARATELY FROM OTHER TOPSOIL AND SHALL BE REINSTALLED IN RIPARIAN AREAS.
7. IF PREVIOUSLY UNKNOWN HISTORIC OR ARCHEOLOGICAL REMAINS ARE DISCOVERED DURING CONSTRUCTION, THE CONTRACTOR MUST IMMEDIATELY STOP WORK AND NOTIFY BOTH THE OWNER'S REPRESENTATIVE OF THESE ITEMS AND WORK MAY NOT COMMENCE UNTIL WRITTEN APPROVAL IS GIVEN TO PROCEED.
8. THE CONTRACTOR MUST BE AVAILABLE TO PROVIDE ALL NECESSARY RESOURCES FOR PERIODIC INSPECTIONS FROM REGULATORY AGENCIES, INCLUDING BUT NOT LIMITED TO THE UNITED STATES ARMY CORPS OF ENGINEERS OR THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, AT ANY TIME DURING THE CONSTRUCTION TIME PERIOD. THIS PERIOD INCLUDES PRE-CONSTRUCTION AND POST-CONSTRUCTION.
9. THE CONTRACTOR MUST MEET ALL REQUIREMENTS FOR BMP'S AS DESCRIBED IN THE CONSTRUCTION SPECIFICATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING ALL SITE SAFETY REQUIREMENTS AND REGULATIONS THROUGH THE ENTIRE DURATION OF ON-SITE CONSTRUCTION ACTIVITIES.
11. THE CONTRACTOR SHALL OBTAIN AT THEIR EXPENSE ANY AND ALL DISCHARGE PERMITS NECESSARY TO PERFORM THE WORK DESCRIBED HEREIN, WHICH MAY BE SUBJECT TO THE PROVISIONS OF THE COLORADO WATER QUALITY ACT AND THE COLORADO DISCHARGE PERMIT REGULATIONS.
12. ANY ADDITIONAL COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
13. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING A SAFE SITE IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS.
14. THE CONTRACTOR SHALL CALL 2-BUSINESS DAYS IN ADVANCE FOR MARKING OF UNDERGROUND MEMBER UTILITIES BEFORE BEGINNING CONSTRUCTION, GRADING, OR EXCAVATING.

CALL UTILITY NOTIFICATION

COLORADO ONE-CALL DIG:
1-800-922-1987

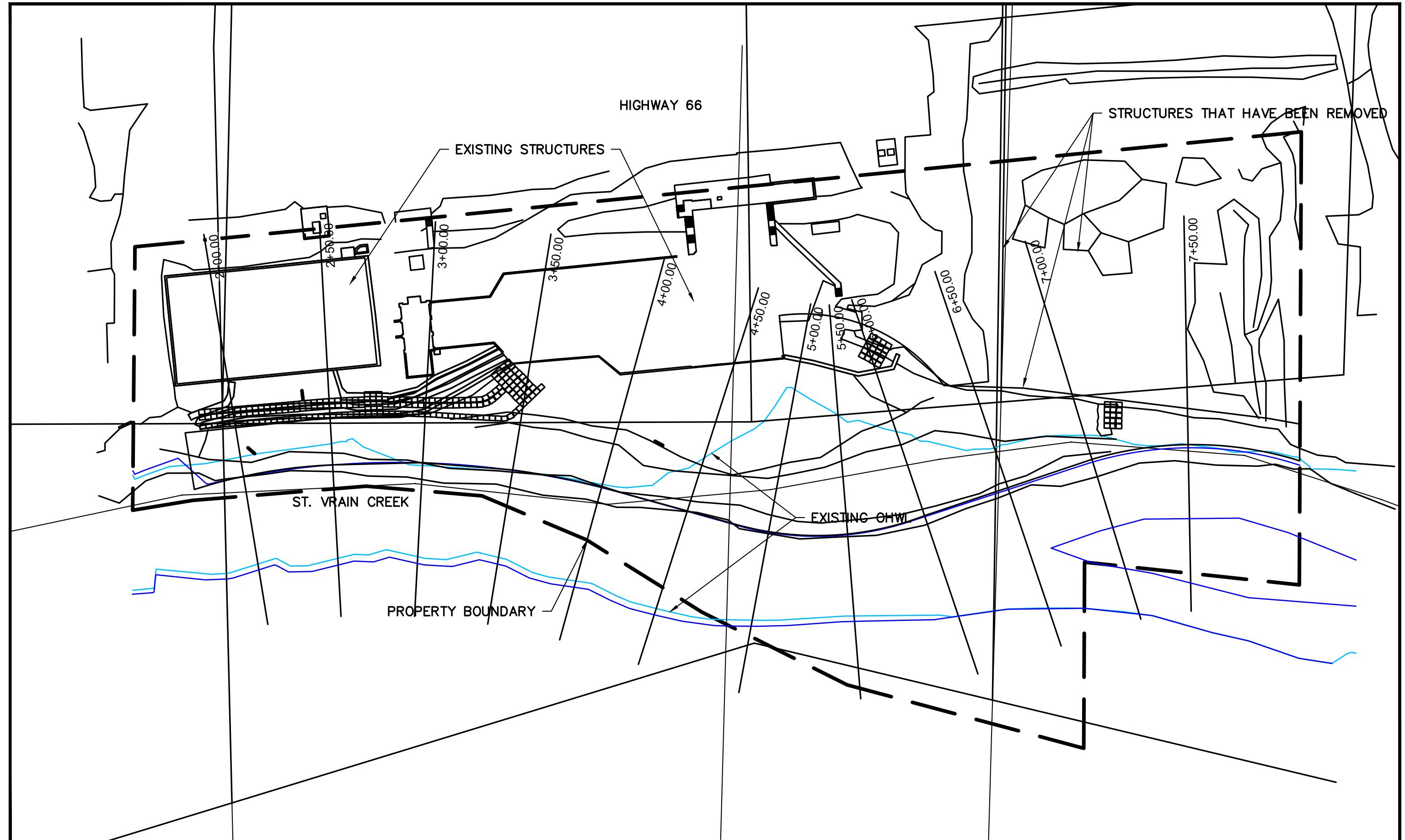
DATE	REVISION DESCRIPTION

Drawing Name Cover	Job Number	Prepared For Lyons Ute Highway LLC	Designer NLW	Drafter NLW	Checked



LYONS UTE HIGHWAY STREAMBANK
STABILIZATION
AS-BUILT

Sheet
1
of
12
Date
February 26, 2025

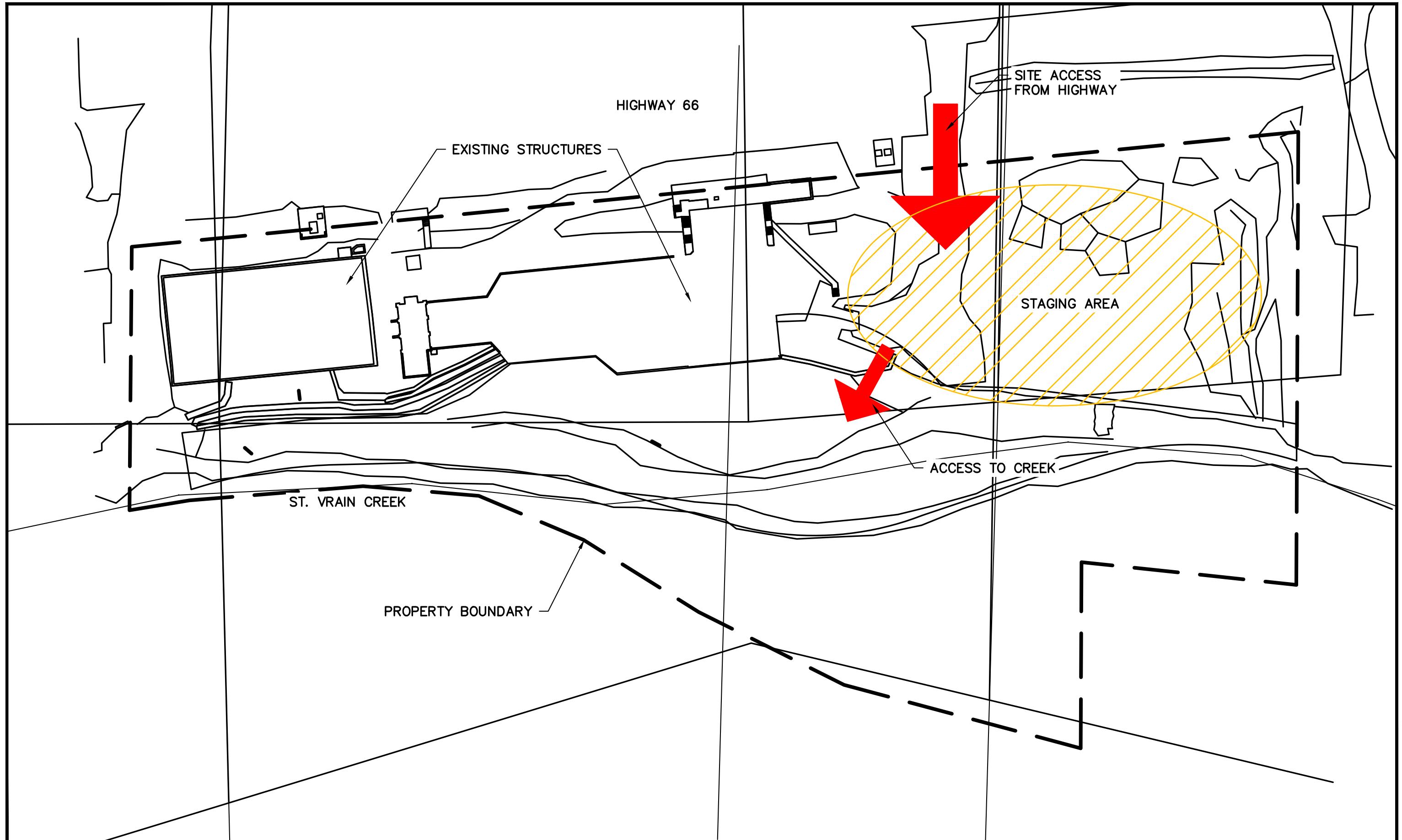


DATE	REVISION DESCRIPTION

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Prepared For	Designer NLW Drafter NLW Checked



**LYONS UTE HIGHWAY STREAMBANK
STABILIZATION
AS-BUILT**

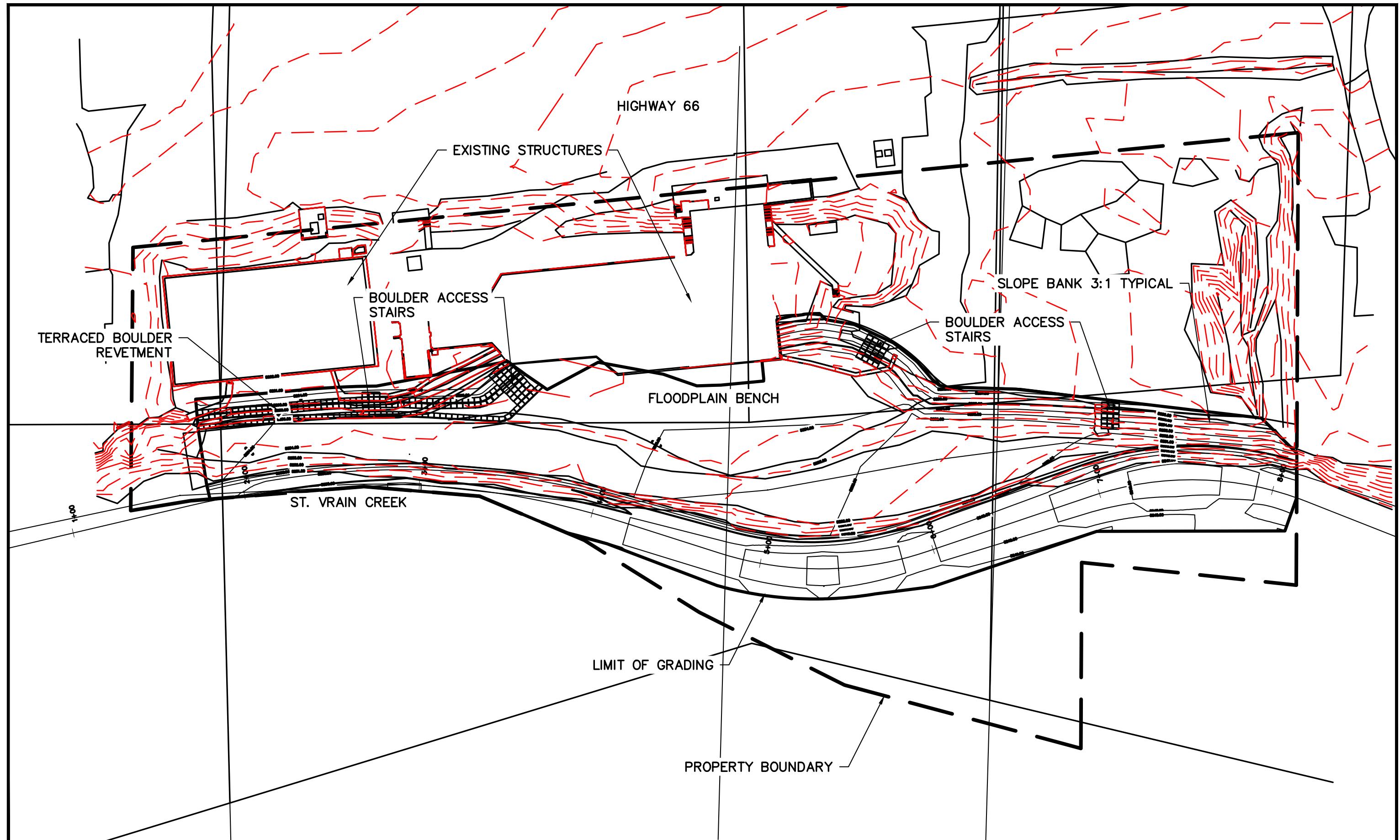


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Prepared For	Designer NLW Drafter NLW Checked



**LYONS UTE HIGHWAY STREAMBANK
STABILIZATION
AS-BUILT**

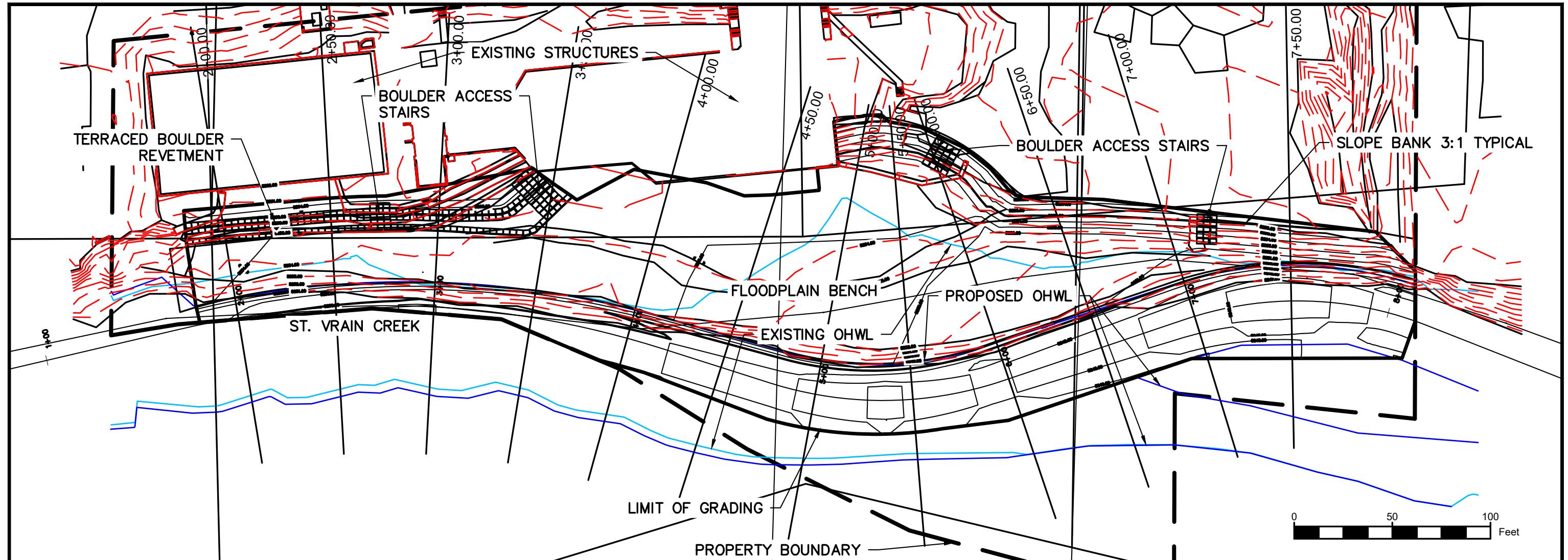


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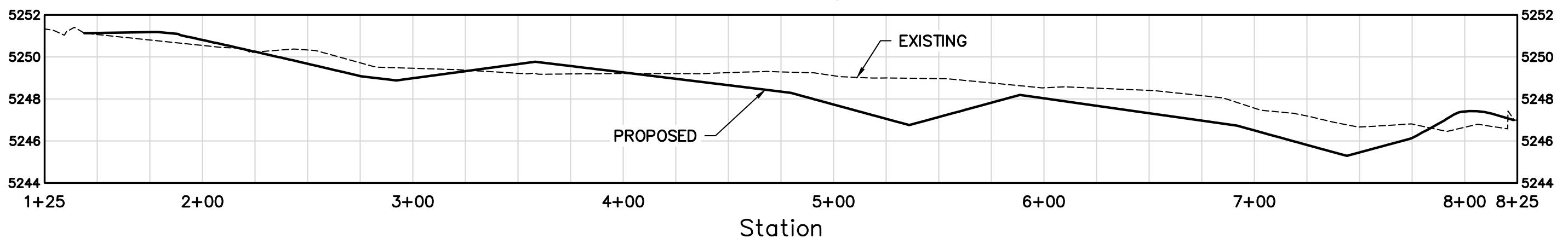
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Prepared For	Designer NLW Drafter NLW Checked



**LYONS UTE HIGHWAY STREAMBANK
STABILIZATION
AS-BUILT**



Proposed Thalweg Profile



DATE	REVISION DESCRIPTION



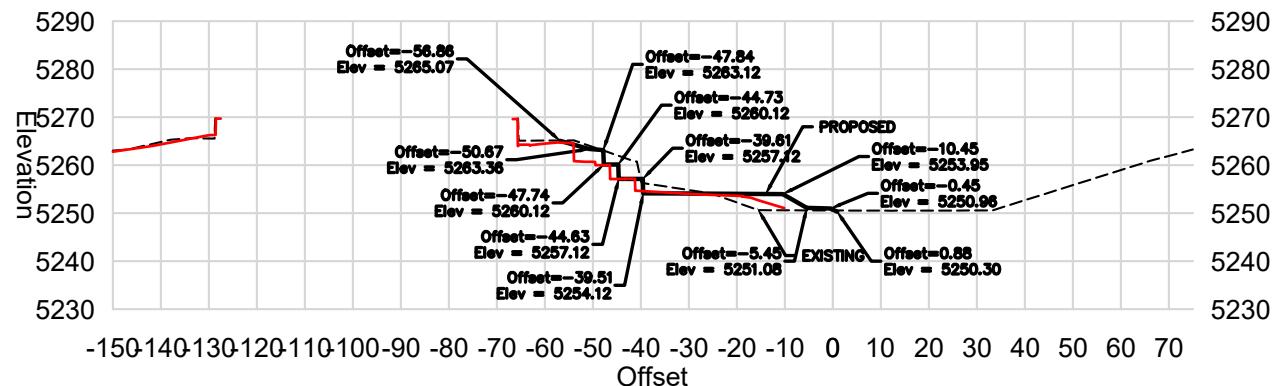
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Proposed Plan & Profile
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 Designer _____
 Drafter _____
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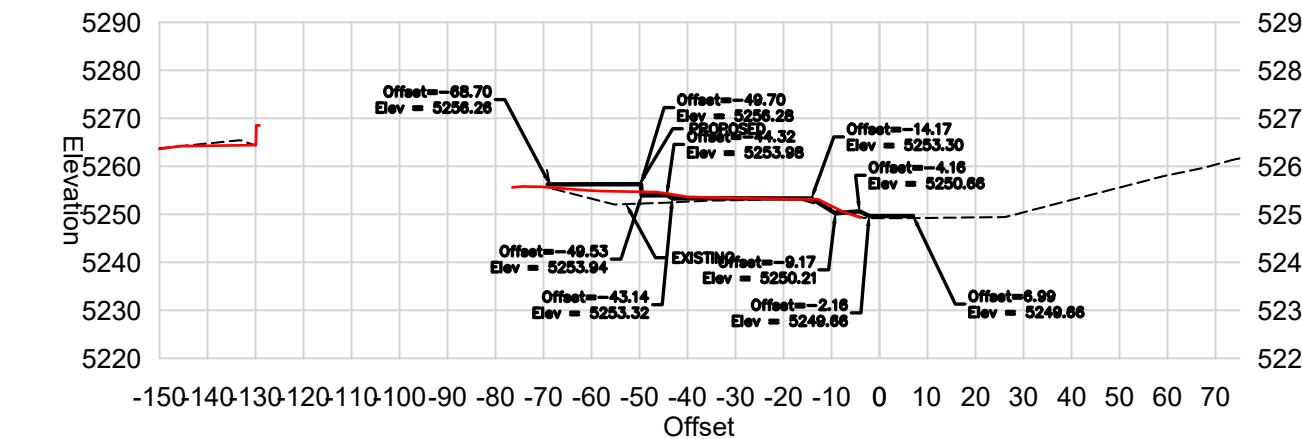
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 STABILIZATION
AS-BUILT

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February 26, 2025

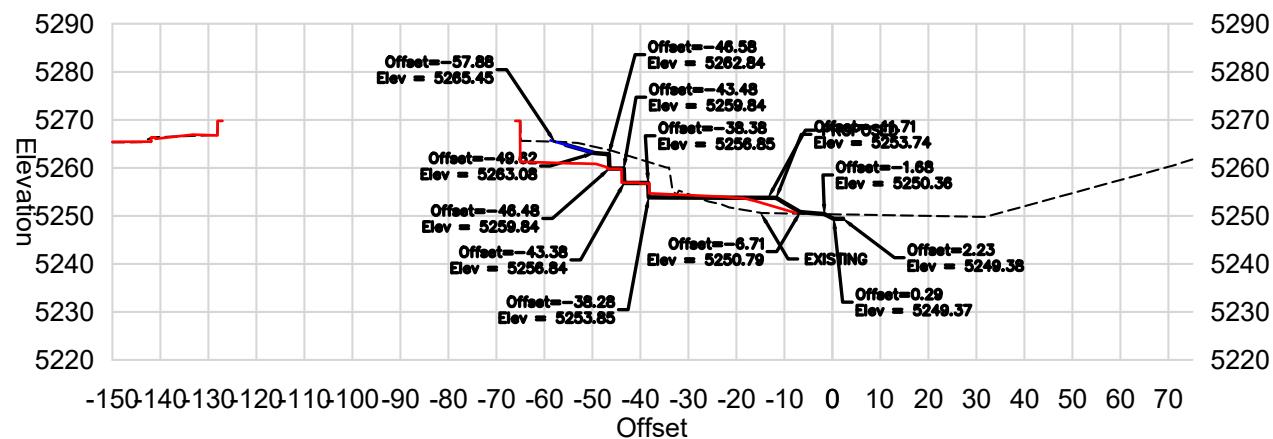
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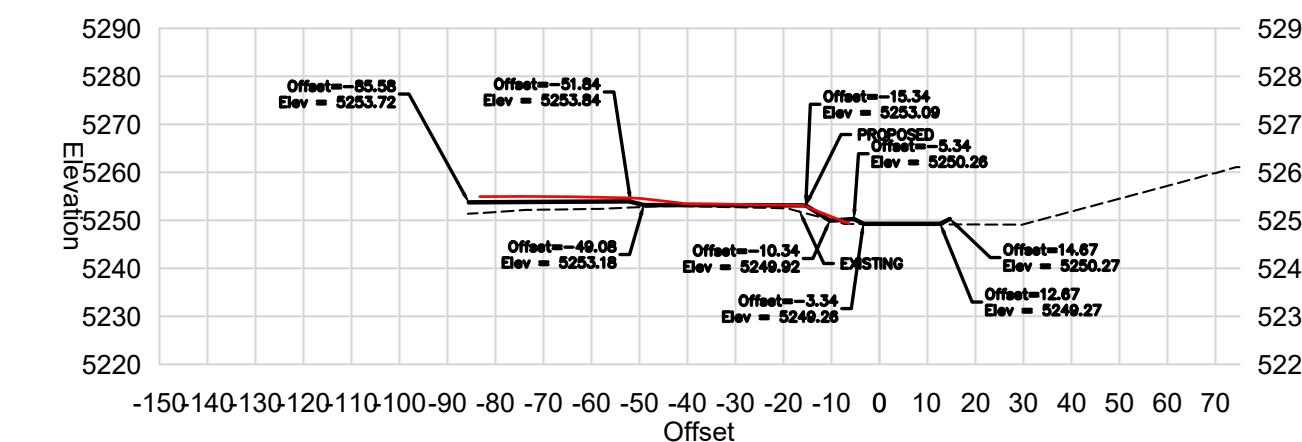
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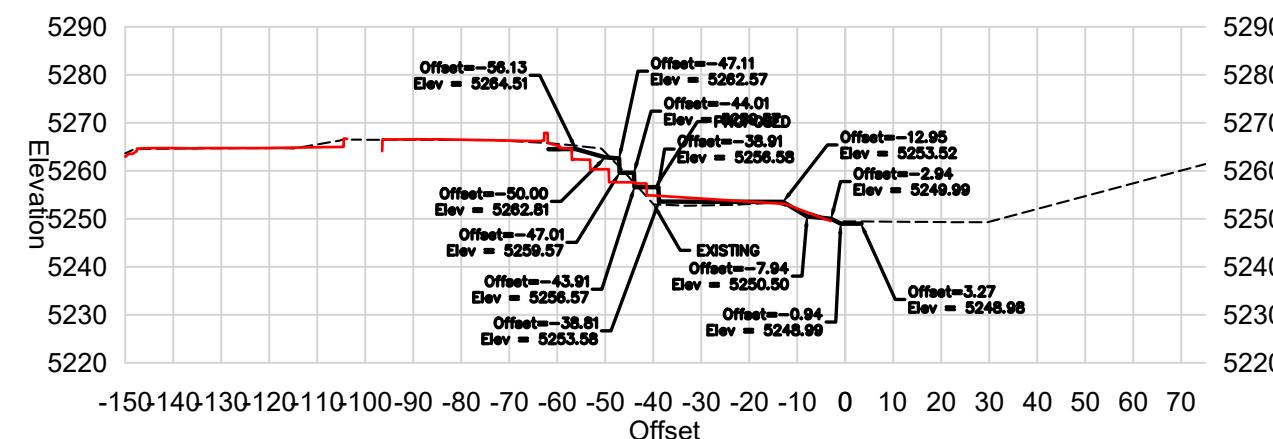
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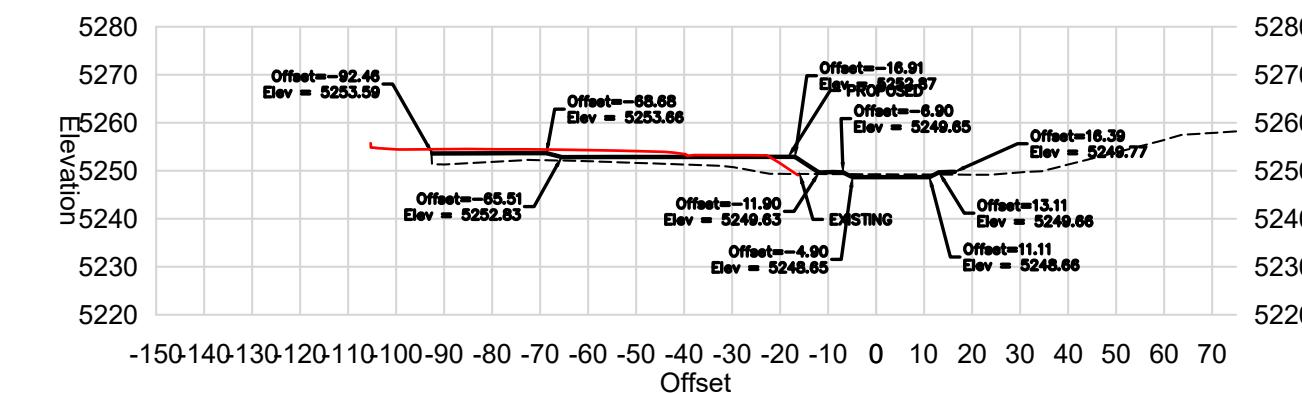
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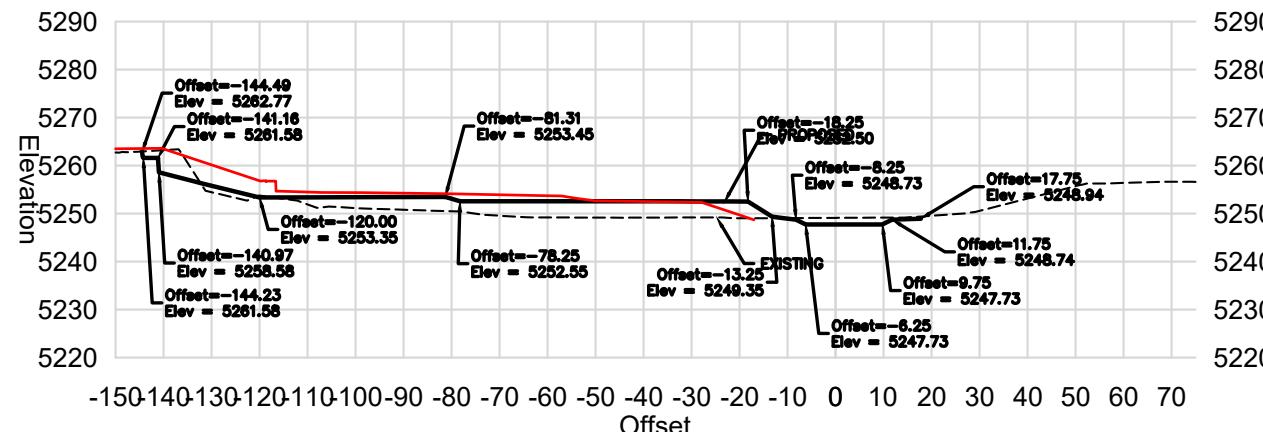
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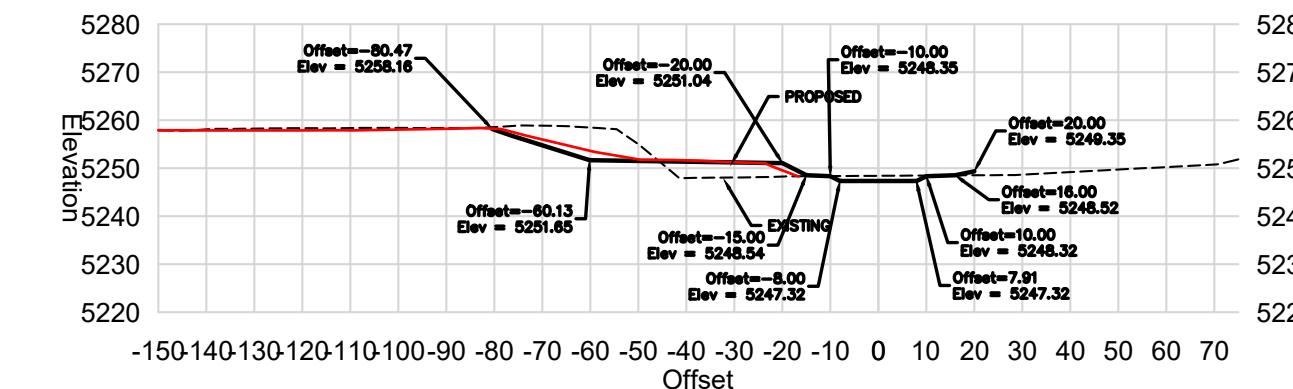
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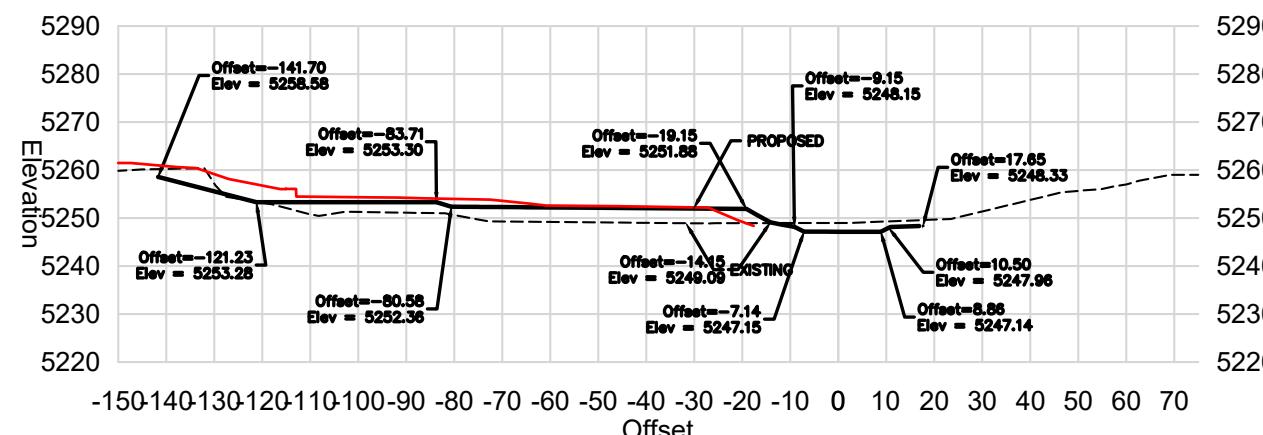
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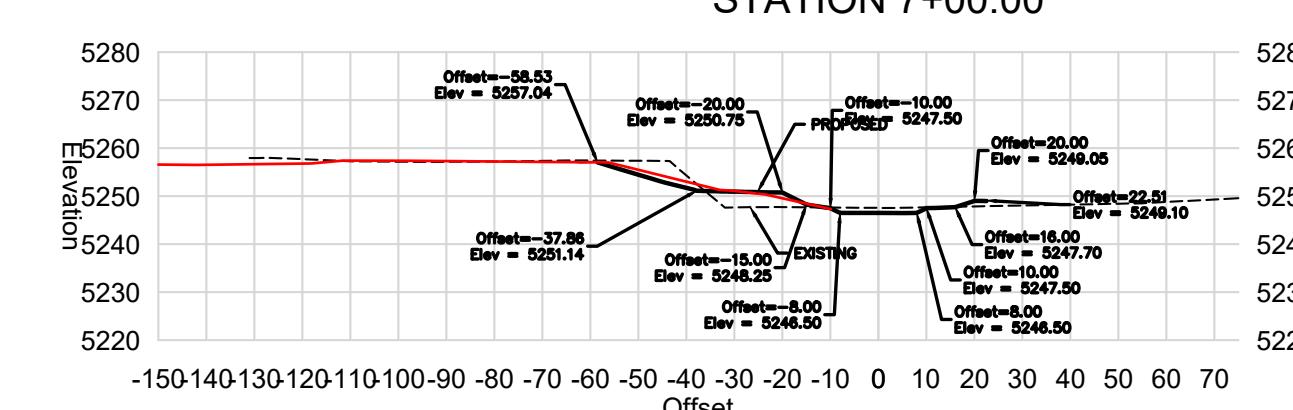
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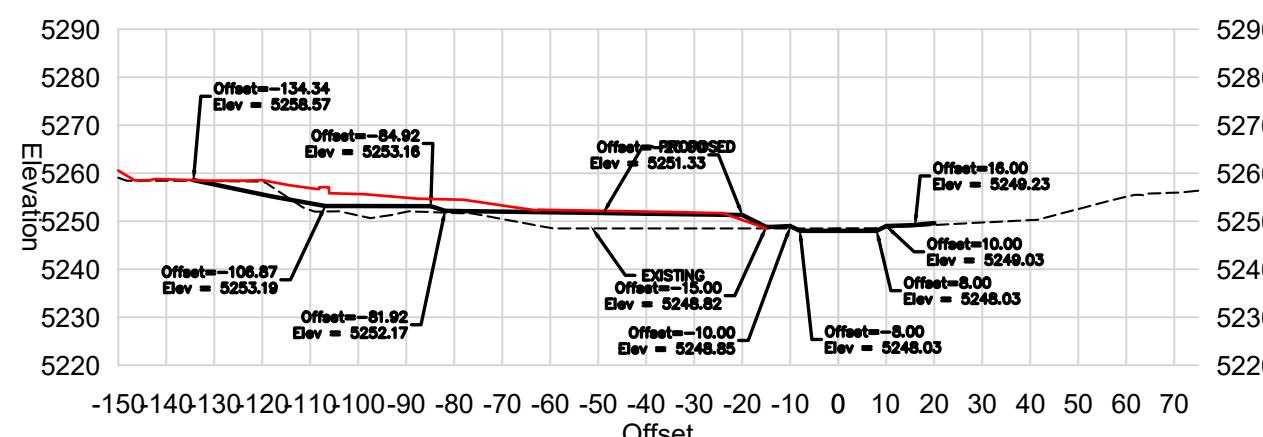
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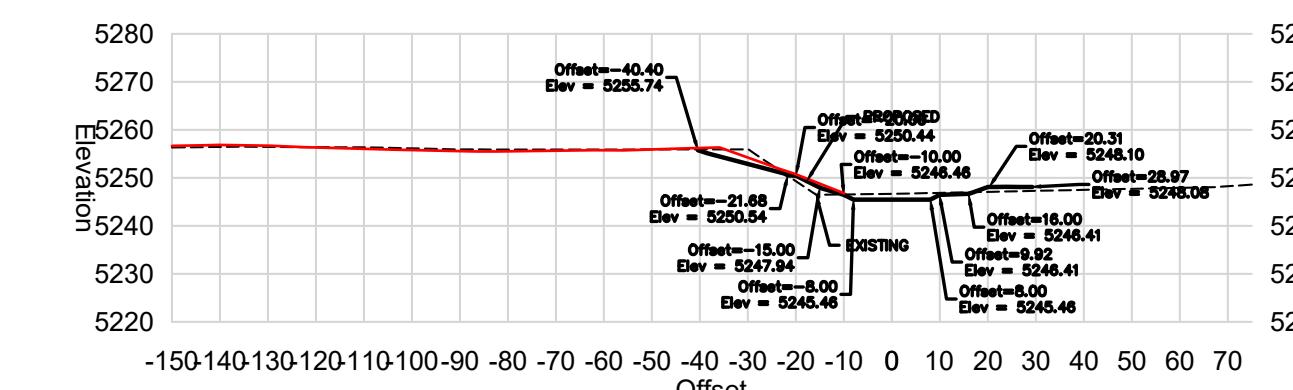
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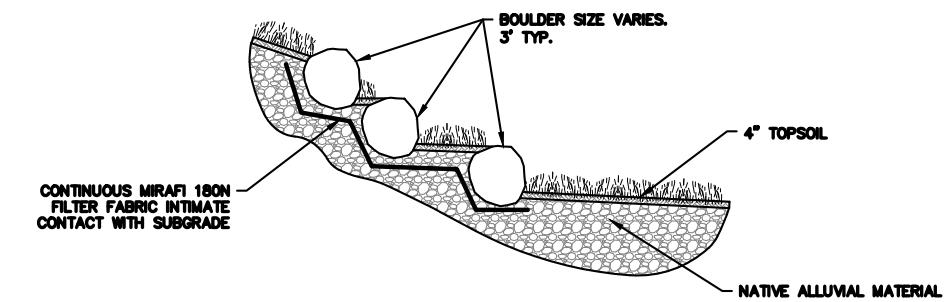
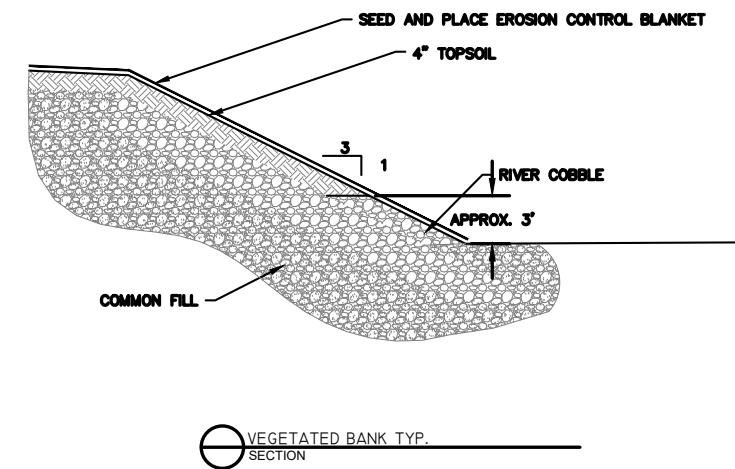


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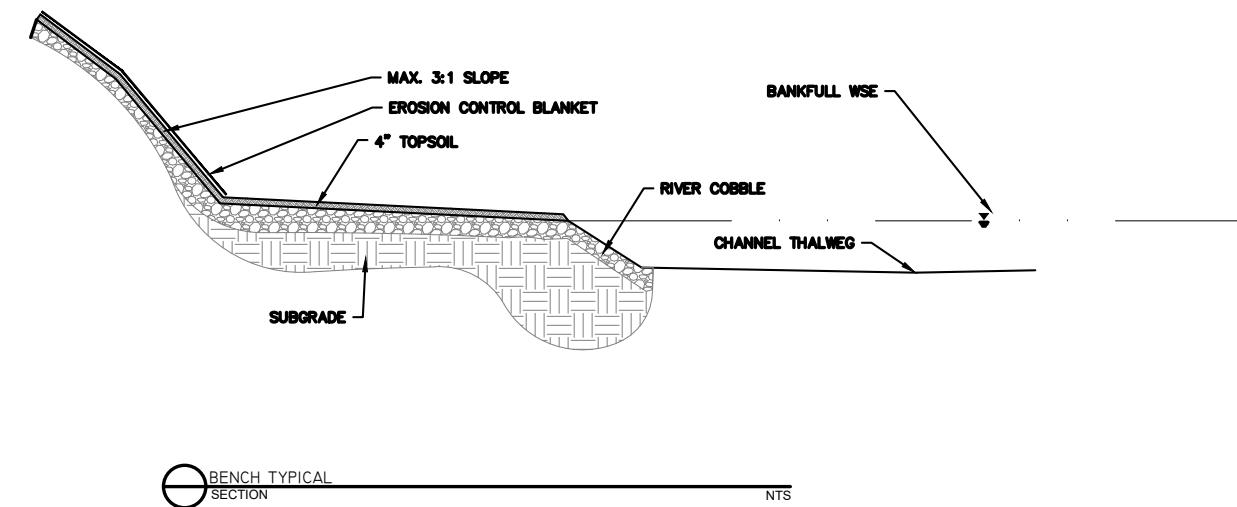
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Prepared For	Designer	Drafter	Checked
	NLW	NLW	



VEGETATED BANK TYP.
SECTION

SCALE: 1:5

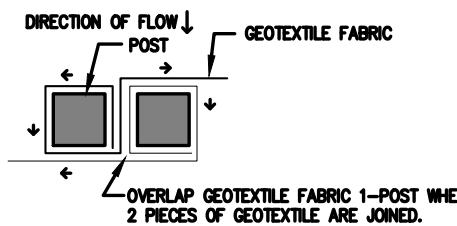


BENCH TYPICAL
SECTION

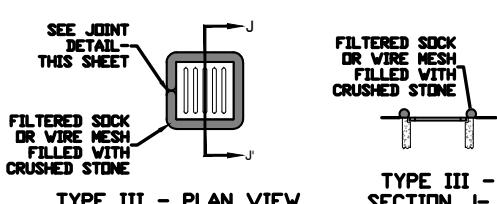
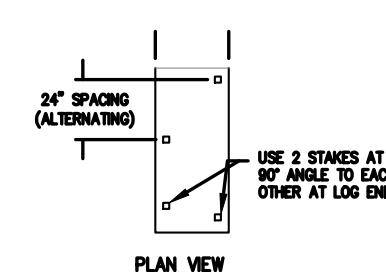
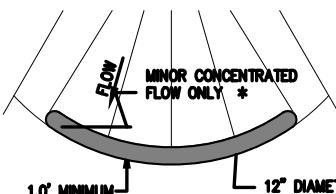
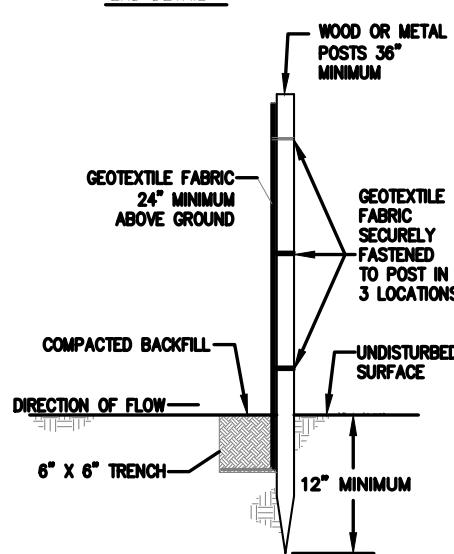
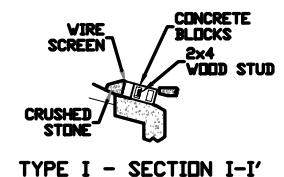
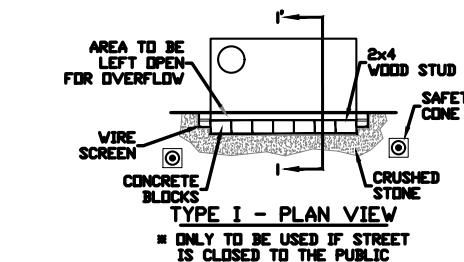
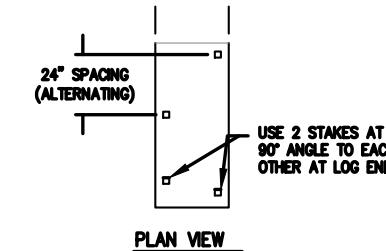
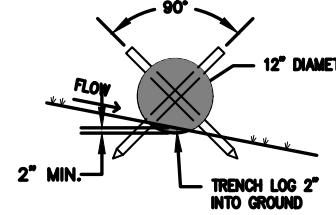
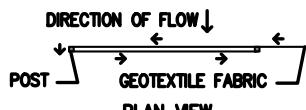
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DATE	REVISION DESCRIPTION

Drawing Name Typical Details		Job Number			
Prepared For	Designer NLW	Drafter NLW	Checked		



PLAN VIEW: TRANSITION DETAIL



NOTES:
 1. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS-SECTION OF 2 INCHES. METAL POSTS SHALL BE STUDDED "T" OR "U" TYPE.
 2. GEOTEXTILE FABRIC SHALL COMPLY WITH CDOT 712.08.
 3. GEOTEXTILE FABRIC SHALL EXTEND A MINIMUM OF 6" BELOW GRADE AND ANOTHER 6" HORIZONTALLY IN A "L" SHAPE BEFORE BACKFILLING AND COMPACTING THE TRENCH. (SLICING METHOD IS ALSO ACCEPTED)
 4. SILT FENCE SHALL NOT BE USED IN CONCENTRATED FLOW AREAS.
 5. SILT FENCE SHALL ONLY BE PLACED PARALLEL TO SURFACE CONTOURS.
 6. CLEAN AND REMOVE SILT WHEN THE SILT REACHES
 7. UPON PERMANENT STABILIZATION OF AREAS UPSLOPE OF THE SILT FENCE, THE SILT FENCE SHALL BE REMOVED AND DISTURBED AREAS PERMANENTLY STABILIZED.

NOTES:
 * FOR MAJOR CONCENTRATED FLOWS, USE A ROCK CHECK DAM

NOTES:
 1. STAKES SHALL BE 1-1/2" x 1-1/2" x 24" MINIMUM AND EMBEDDED INTO GROUND A MINIMUM OF 12".
 2. SEDIMENT CONTROL LOG SHALL BE TRENCHED 2" INTO GROUND.
 3. FOR CONTINUOUS CONTROL, ADJACENT SEDIMENT CONTROL LOGS SHALL BE PLACED FIRMLY TOGETHER WITH NO GAPS.
 4. SEDIMENT SHALL BE CLEANED/ REMOVED WHEN SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE SEDIMENT CONTROL LOG.

NOTES:
 1. CRUSHED STONE SHALL BE NO. 4 STONE WITH 0% PASSING THE 3/4" SIEVE.
 2. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES 1/2 THE INLET PROTECTION HEIGHT.
 3. INLET PROTECTION SHALL BE PLACED IN A MANNER NOT TO CAUSE SIGNIFICANT FLOODING IN PUBLIC STREETS OR AREAS.
 4. INLET FILTER BAGS WITH OVERFLOW PORTS MAY BE USED IN HIGH TRAFFIC AREAS AS A SUBSTITUTE.
 5. IF LARGE DEPOSITS OF SEDIMENT ENTERS THE STORM SEWER, THE CONTRACTOR SHALL CLEAN THE STORM SEWER TO THE SATISFACTION OF THE CITY.

8 SILT FENCE
DETAILS

NTS

9 SEDIMENT CONTROL LOG
DETAILS

NTS

7 INLET PROTECTION
DETAILS

NTS

REV 08

Drawing Name
BMP Details

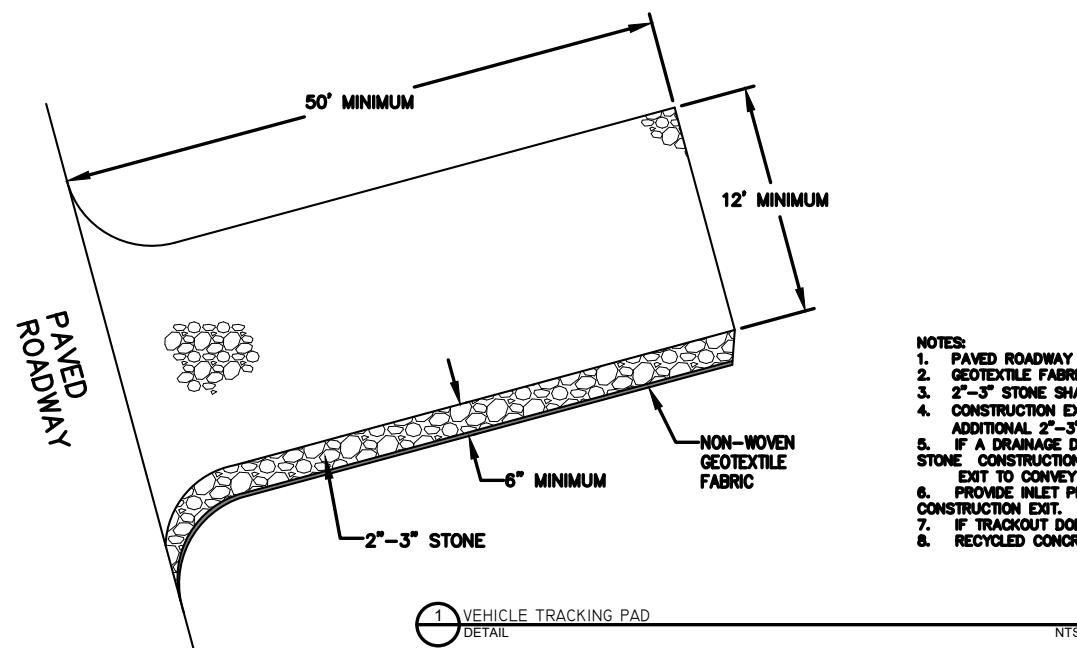
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Designer

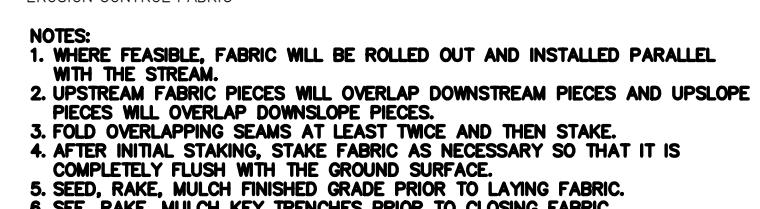
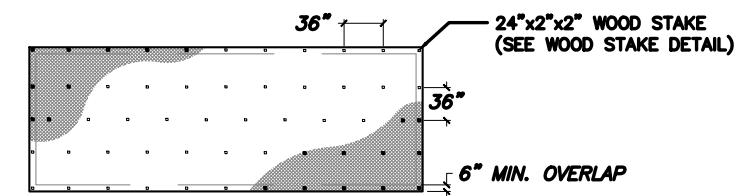
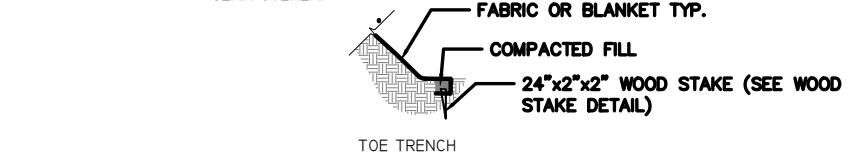
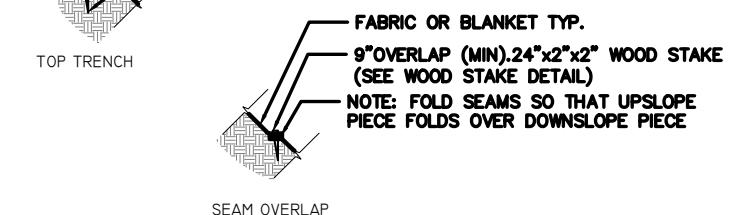
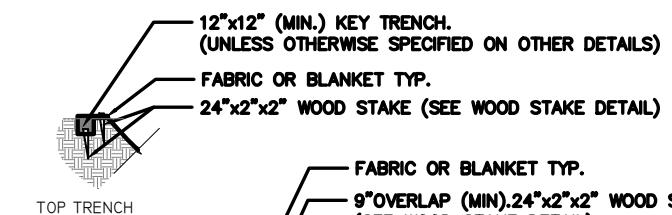
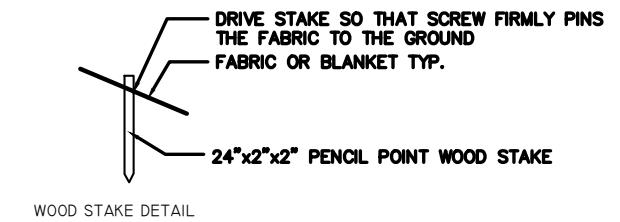
Drafter

Checked



NOTES:

- PAVED ROADWAY TO BE KEPT CLEAN OF MUD, DIRT, ROCKS, AND DEBRIS AT ALL TIMES.
- GEOTEXTILE FABRIC SHALL COMPLY WITH COOT 712.06.
- 2"-3" STONE SHALL CONTAIN LESS THAN 10% FINES.
- CONSTRUCTION EXIT SHALL BE MAINTAINED AT ALL TIMES. STONE SHOULD BE BLADED AND/OR ADDITIONAL 2"-3" STONE SHOULD BE PLACED IF Voids BEGIN FILLING WITH DEBRIS.
- IF A DRAINAGE DITCH EXISTS NEXT TO ROADWAY, INSTALL TEMPORARY CULVERT UNDERNEATH STONE CONSTRUCTION
 EXIT TO CONVEY FLOW.
- PROVIDE INLET PROTECTION FOR ANY INLETS LOCATED IMMEDIATELY ADJACENT TO THE CONSTRUCTION EXIT.
- IF TRACKOUT DOES OCCUR, ROADWAY SHOULD BE SWEEP IMMEDIATELY.
- RECYCLED CONCRETE OR RECYCLED ASPHALT SHALL NOT BE USED.

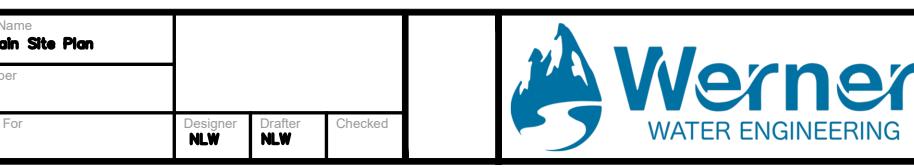


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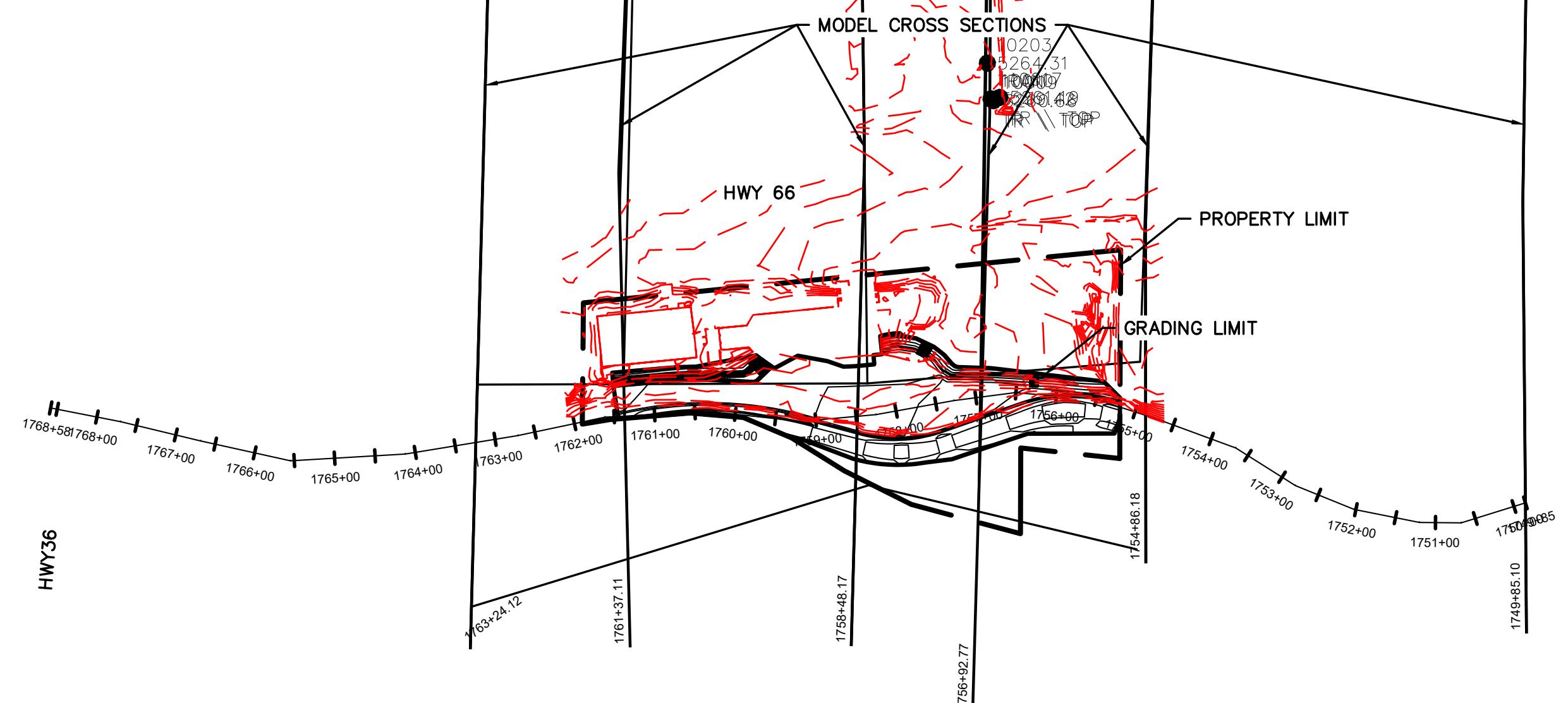
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XREFS:	
DATE	REVISION DESCRIPTION

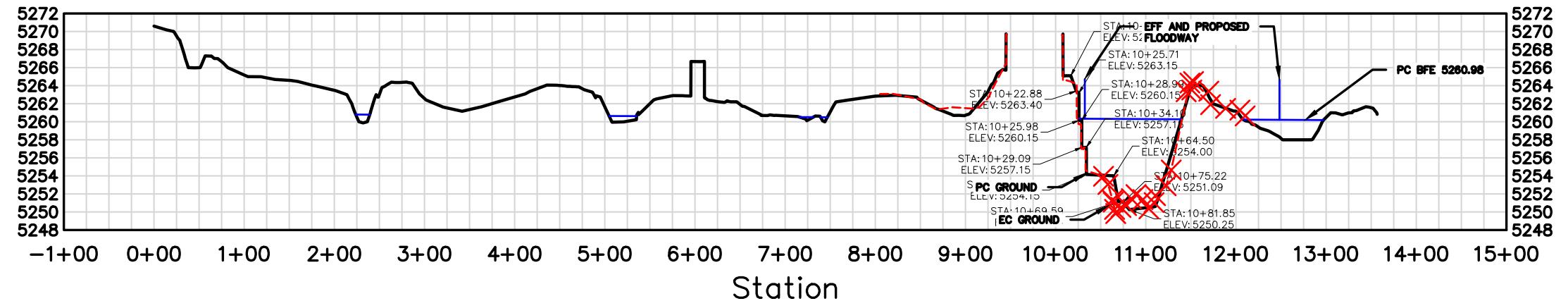
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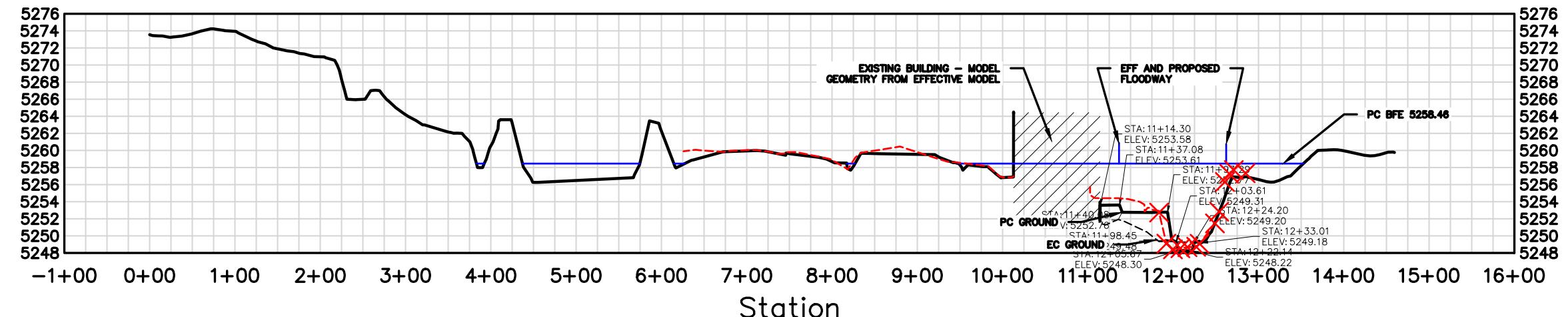
LYONS UTE HIGHWAY STREAMBANK
STABILIZATION
AS-BUILT



176137.11 Profile



175848.2 Profile



175692.77 Profile

