



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

A division of the
Nevada Department of Conservation & Natural Resources

STATE OF NEVADA
Joe Lombardo, Governor
Vinson Guthreau, Director
Jennifer L. Carr, Administrator

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ndep.nv.gov

Clean Water Act Section 401 Water Quality Certification Application

Please refer to the "[Clean Water Act Section 401 Water Quality Certification Application Guidance](#)" document for assistance with completing this application.

A. Pre-Filing Meeting	
Please provide the date that a pre-filing meeting was requested from Nevada Division of Environmental Protection (NDEP) Bureau of Water Quality Planning (BWQP).	August 6, 2026
<i>Note: If a pre-filing meeting has not been requested, please schedule a pre-filing meeting with NDEP BWQP.</i>	

B. Contact Information	
Project Proponent Information	
Company Name: Nevada Public Works Division	Address: 515 E. Musser Street, Suite 102
Applicant Name: Jason D. Crosby, PE	City: Carson City
Phone: 775-684-1813 Fax:	State: Nevada
Email: j.crosby@admin.nv.gov	Zip Code: 89701
Agent Information	
Company Name: Resource Concepts, Inc.	Address: 340 N. Minnesota Street
Agent Name: JoAnne Michael, CPESC	City: Carson City
Phone: 775-883-1600 Fax:	State: Nevada
Email: joanne@rci-nv.com	Zip Code: 89703

C. Project General Information	
Project Location	
Project/Site Name: Marlette Lake Water Intake Structure Replacement Project	Name of receiving waterbody: Marlette Lake, discharges to Lake Tahoe
Address: Nevada State Park	Type of waterbody present at project location (<i>select all that apply</i>): ☐ Perennial River or Stream ☐ Intermittent River or Stream ☐ Ephemeral River or Stream ☒ Lake/Pond/Reservoir ☐ Wetland ☐ Other: _____
City:	
County: Washoe County	
State: Nevada	

Zip Code:			
Latitude (UTM or Dec/Deg): 39.173059		Longitude (UTM or Dec/Deg): -119.906535 WGS 84	
Township: T14N	Range: R18E	Section: 01 and 02	¼ Section:
Project Details			
Project purpose:		The purpose of the proposed project is to upgrade the existing water system intake structure to reduce the amount of sediment uptake and buildup within the water system. Sediment in the system causes damage to the System's pump impellers, sensors, valves, transducers and pipeline. The proposed upgraded design will mitigate the current issues with sediment entering the line and damaging the system and be effective for minimizing bio-film and other accumulation on the screens.	
Describe current site conditions: Attachments can include, but are not limited to, relevant site data, photographs that represent current site conditions, or other relevant documentation.		Marlette Lake is located on the eastern side of the Lake Tahoe basin. The lake is situated in the mountains, approximately 1.5 miles above the east shore of Lake Tahoe and seven miles west of Carson City. The Marlette Lake (Lake) intake structure is located at the Northeast corner of the Lake. The intake consists of a 615 feet long, 20-inch diameter HPDE pipeline and screened intake structure located at the submerged end of the pipeline. The intake structure is eight (8) feet long x three (3) feet wide x three (3) tall aluminum box with a mesh-screen opening over the upper half. The pipeline is buried onshore and runs from an underground pump-can for approximately 615 feet offshore. The pipe gradually becomes unburied as it passes from the shore to become submerged in the lake, resting on the bed of the Lake. At the opposite end of the intake line is a pump connection within a underground pump-can. The pump lifts raw water from the Marlette Lake intake east over Marlette Ridge to the Hobart Creek catchment. The intake system provides a significant portion of the MLWS's raw water supply. The Lake is presently drawn down to approximately 20 feet below the normal high-water line due to the separately permitted Marlette Dam rehabilitation project on the opposite shore of the Lake (NV-401-24-047/SPK 2024-00521). When the Lake is full, the intake structure is submerged by approximately 32 feet of water and is approximately 615 feet offshore. The intake structure is presently submerged by approximately 12 feet of water due to the drawn-down lake level. The lake is expected to re-fill at rate between three (3) feet and five (5) feet per year. The intake structure is partially submerged in sediment. See Attachment 1 – Figure 1 for a Project Location Map See Attachment 2 - Detailed Project Description See Attachment 4 - Project Area Photos	

Describe the proposed activity including methodology of each project element:	The SPWD proposes to replace the existing intake structure with a new modernized design that elevates the screen above the lake-bed sediment line. This will prevent sand intrusion from further damaging the intake pump and restore security of the MLWS raw water supply. The replacement structure design will include a precast concrete base to anchor the intake to the lakebed. The new intake base will be the 8 feet x 8 feet (64 s.f.), which is approximately 40 s.f. larger than the current 8 feet x 3 feet structure. The new concrete base will be set atop the existing disturbance footprint of the removed structure to minimize new disturbance to the lakebed (approximately 40 s.f. new disturbance). As the base will be pre-cast prior to being brought to the site, there will be no on site cement washouts needed. The structure's new screen will be raised six (6) feet above the sediment line. The screen will be T-shaped with a fish-friendly design (per NOAA fish-safe velocities) and be effective for minimizing bio-film and other accumulation. The T-screen and mesh will be constructed of stainless steel which is NSF-61 compliant. The structure will connect to the existing pipeline with a grooved coupling located two (2) feet from the edge of the concrete base. The remainder of the HDPE pipeline and other intake infrastructure will not be altered under this project. Two access points will be utilized for potential staging, storage, and operations to replace the intake structure. The first point is at the established access road adjacent to the dam on the opposing shoreline from the intake structure. The existing road will be used to launch a small barge and possibly lay down materials for staged barge transportation. The barge is required to hoist and raise/lower both the old and new structure for removal/installation. The barge will also be used to facilitate mechanical sediment removal around the intake if needed. The second construction access location is at the east shore of the Lake, adjacent to the intake pump house. This site is accessed from Laxalt Road via Hobart Road, a private dirt road maintained in conjunction with the owner and the MLWS. This site does not have boat-launch capabilities, but will primarily be used for equipment coordination, diver assistance access, temporary stockpiling of dredged sediment above the ordinary high water mark (OHWM), and to manage construction Best Management Practices (BMPs).
Estimate the nature, specific location, and number of discharge(s) expected to be authorized by the proposed activity:	The project will result in the discharge of new fill material below the OHWM of Marlette Lake at: 1) The intake structure – the concrete foundation of the new intake structure will be increased to 8' x 8' (previously 8' x 3'); and 2) Existing access route – additional rock fill may be added to the existing gravel road to reduce the slope of the ramp. Fill estimated not to exceed See Figures 3, 4 and 5 in Attachment 1 for locations of impacts. An Impact Summary Table is located in Attachment 3.

Provide the date(s) on which the proposed activity is planned to begin and end and the approximate date(s) when any discharge(s) may commence:	May 1, 2027 – weather dependent	
Provide a list of the federal permit(s) or license(s) required to conduct the activity which may result in a discharge into regulated waters (see mandatory attachments):	United States Army Corp of Engineers (USACE) Nationwide Permit 58, Utility Line Activities for Water and Other Substances	
Provide a list of all other federal, state, interstate, tribal, territorial, or local agency authorizations required for the proposed activity and the current status of each authorization:	1) NDEP Temporary Working in Water Ways – to be applied for 30 days prior to construction 2) Tahoe Regional Planning Agency - Public Utilities	
Does this activity require preparation of an Environmental Impact Statement (EIS) under the National Environmental Policy Act (33 U.S.C. § 4321, et seq.) by the U.S. Army Corps of Engineers (USACE) or another federal agency where USACE will rely on the EIS to make its permit decision.	No.	
Total area of impact to regulated waterbodies (acres):	Total Permit Impact: 1,796 s.f. (0.04 acres) Temporary Impact: 0	
Total linear distance of impact to regulated waterbodies (linear feet):	0 linear feet of stream	
Quantity and nature of each discharge of fill material proposed within regulated waters (cubic yards):	Temporary:	Permanent:
	0 CY	423 CY rock
Quantity and nature of each discharge of dredged material proposed within regulated waters (cubic yards):	Temporary:	Permanent:
	0 CY	0 CY
Describe the reason(s) why avoidance of temporary fill in regulated waters is not practicable (if applicable):		
Describe the Best Management Practices (BMPs) to be implemented to avoid and/or minimize impacts to regulated waters: Examples include sediment and erosion control measures, habitat preservation, flow diversions, dewatering, hazardous materials management, water quality monitoring, equipment or plans to treat, control, or manage discharges, etc.	BMP 1. All trees and natural vegetation to remain on site shall be protected. BMP 2. During the construction period, environmental protection devices, such as erosion control, sediment barriers, dust control, and vegetation protection devices shall be maintained at all times. BMP 3. Sediment barriers will be inspected weekly and after a rainstorm for damage and appropriate placement to reduce potential erosion. Any damaged barriers will be repaired, or new barriers installed, within 24 hours upon identification of damage. Accumulated sediment will be removed when it reaches a maximum of one-third the height of the silt fence or one-half the height of the fiber roll. BMP 4. To the extent practicable, dredged sediment will be stockpiled temporarily within previously disturbed upland staging areas as shown on plan sheets or immediately off loaded	

into a haul truck. Sediment barriers will be placed around the downslope perimeter of temporary sediment stockpiles.

BMP 5. Loose soil mounds or surfaces shall be protected from wind or water erosion by being appropriately covered when construction is not in active progress.

BMP 6. Unless otherwise authorized by the CWA 404/401 permits, construction staging and material storage of equipment, materials, fuels, lubricants, and solvents will be located on previously disturbed areas more than 50 feet from Marlette Lake. Equipment will be fueled and maintained within the designated staging areas or off site. Adequate supplies will be available at all times to handle spills, leaks, and disposal of used liquids. There will be no concrete washout facilities on-site.

BMP 7. Construction equipment will be inspected at the beginning of each shift and throughout the day to prevent spills/leaks from entering the water. Spill kits will be available onsite in case a spill event occurs.

BMP 8. The contractor will visually monitor for leaks during use of the barge within the lake. The contractor will have on board and readily available a spill kit containing absorbent booms and pads. The spill kit will be sufficient to encircle a discharge of petroleum to the lake that could occur during construction activities. The absorbent booms and pads will be used should a sheen develop on the water as the result of construction activities. Used booms and pads will be disposed of by the contractor in accordance with applicable regulations.

BMP 9. Loose construction materials, packaging, and litter will be cleaned up daily and disposed of or stored appropriately.

BMP 10. All construction equipment and vehicles will be washed and inspected for weed seeds and plant parts prior to bringing them onto the property. Vehicles or other traffic that may transport weed seed or plant materials will be restricted from entering the site. No washing of vehicles or heavy equipment shall be permitted anywhere on the subject property unless authorized by the governing agency.

BMP 11. Soil and construction material will not be tracked off the construction site. Perform street sweeping as necessary.

BMP 12. No construction shall occur between October 15 and May 1, unless authorized by TRPA.

BMP 13. All temporarily disturbed area will be revegetated in accordance with the *Tahoe Regional Planning Agency Best Management Practices Handbook*.

BMP 14. Contractor shall avoid modification to the existing access point/boat launch to the extent practicable or otherwise receive approval by the engineer and owner if modifications are required.

BMP 15. If modifications to the existing access point/boat launch are necessary, appropriate sediment controls will be

	installed down slope of the fill material, which may include the use of a turbidity curtain if fill is placed below the surface of the water.
Describe how the activity has been designed to avoid and/or minimize adverse effects, both temporary and permanent, to regulated waters:	The increase in size of the intake foundation is necessary to provide stability to the proposed intake structure that raised above the sediment line. The size of the foundation was increased by the minimum amount necessary to maintain stability of the intake structure. The additional rock fill needed to reduce the slope of the access road a is necessary to safely launch the barge into the lake.
Describe any compensatory mitigation planned for this project (if applicable):	No mitigation is proposed as total permanent impacts are minor (0.04 ac.) and necessary for replacement of the intake structure, which provides long-term benefit to the Marlette Lake Water System.

D. Signature		
Name and Title (Print):	Phone Number:	Date:
X Signature of Responsible Official		

Mandatory Attachments:

- **Federal Permit or License Application** - A copy of the federal permit or license application and any readily available water quality-related materials that informed the development of the federal license or permit application.
- **Site Map** - A map or diagram of the proposed project site including project boundaries in relation to regulated waters, local streets, roads, and highways.
- **Engineered Drawings** - Engineered drawings are preferred to be submitted at the 70% design level. If only conceptual designs are available at the time of application, plans for construction should be submitted prior to the start of the project. Specific locations of the proposed activities and details of specific work elements planned for the project should be identified (e.g., staging areas, concrete washouts, perimeter controls, water diversions, or other BMPs).

Submit the completed application materials to NDEP (ndep401@ndep.nv.gov) with the appropriate U.S. Army Corps of Engineers Regulatory Office copied on the communication (<http://www.spk.usace.army.mil/Missions/Regulatory/Contacts/Contact-Your-Local-Office/>).

Attachment 1

Figures



Project: Marlette Lake Intake Structure Replacement
 County: Washoe
 Surveyor: JoAnne Michael
 Date: June 11, 2026
 Source: USGS The National Map

Figure 1
Location Map

0 200 400 Feet
 1 In = 400 Ft

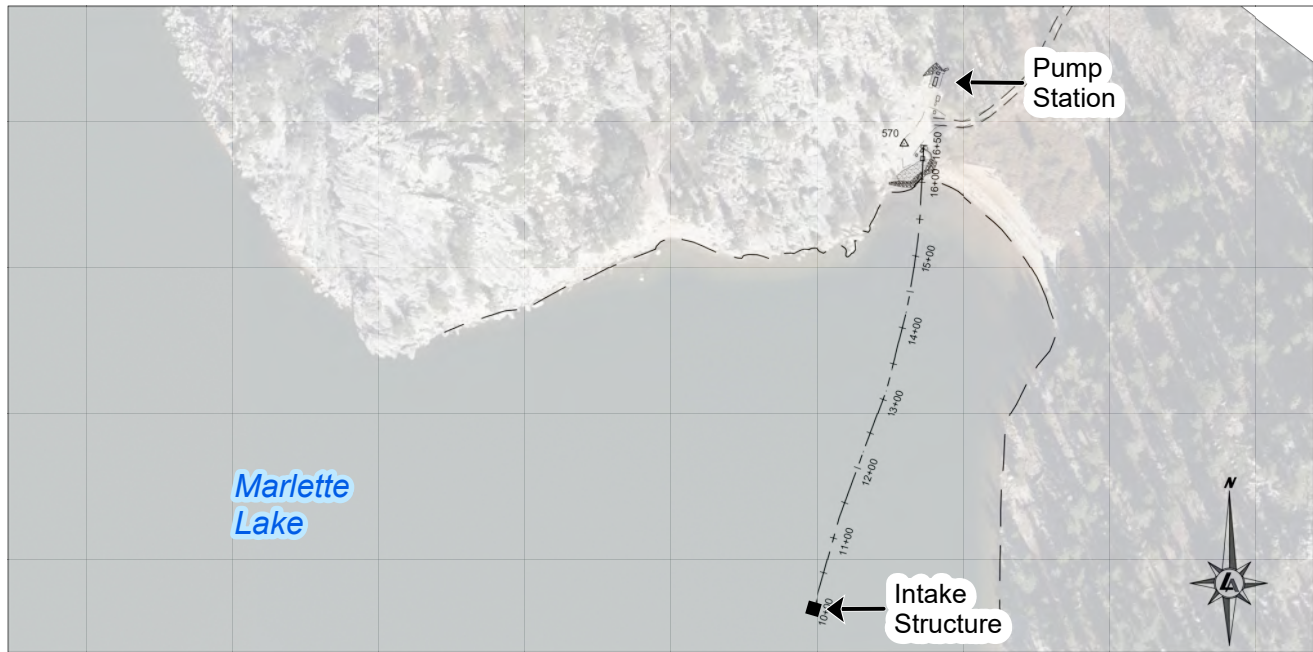


Project: Marlette Lake Intake Structure Replacement
Source: ESRI Imagery Services
Vivid Advanced, Vantor, 6/30/2024

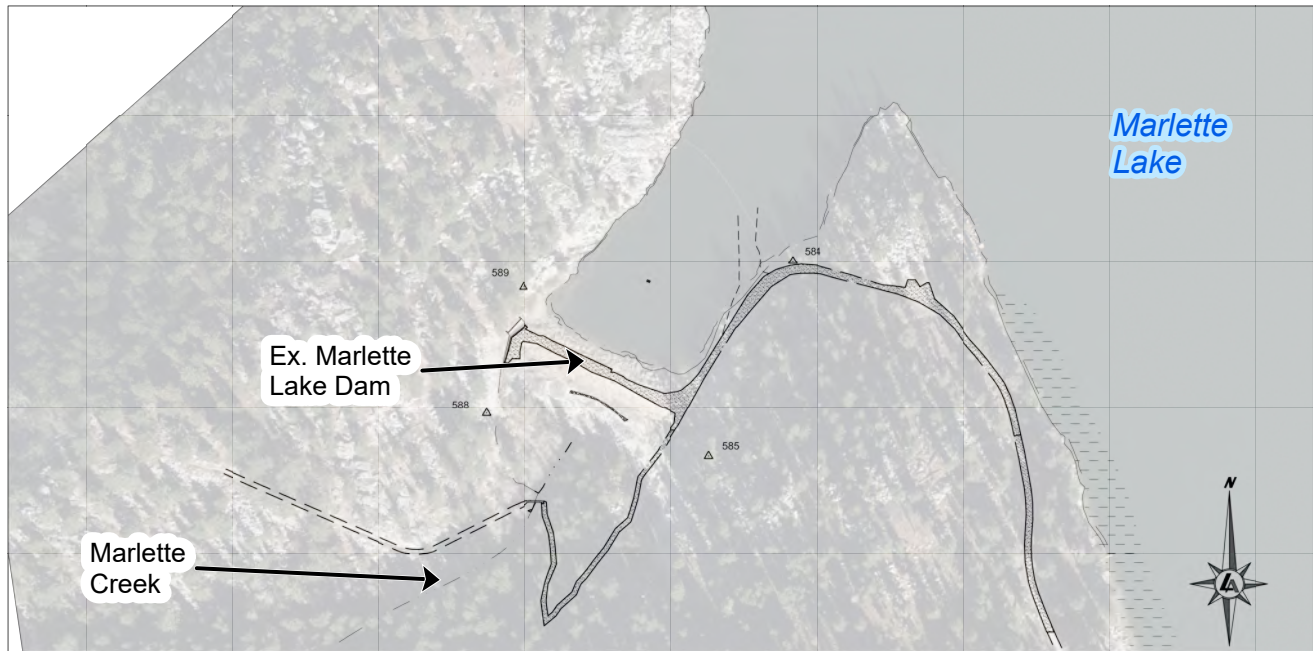
Figure 2
Project Vicinity Map

0 0.25 0.5 Miles
1 In = 0.5 Mi

PROPOSED SITE DESIGN PLAN GENERAL OVERVIEW:



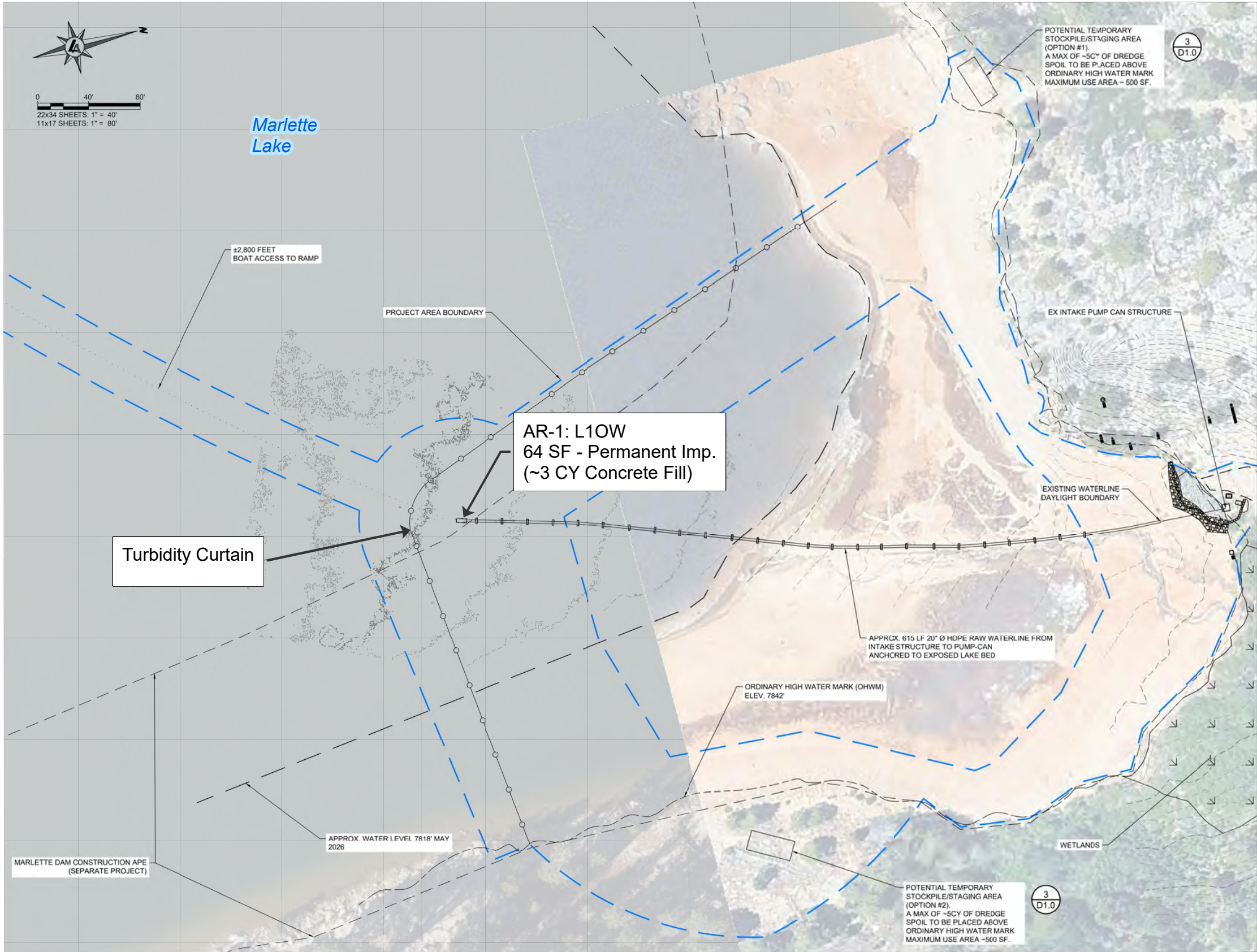
INTAKE STRUCTURE SITE - EAST SHORE



BOAT LAUNCH SITE - WEST SHORE

Figure 3
Project Plan General Overview

Project: Marlette Lake Intake Structure Replacement
Source: MARLETTE LAKE INTAKE STRUCTURES CIVIL IMPROVEMENT PLANS CONTROL, INDEX AND DESIGN CRITERIA SHEET C1.2



GENERAL BMP NOTES:
 BMP 1. All trees and natural vegetation to remain on site shall be protected.
 BMP 2. During the construction period, environmental protection devices, such as erosion control, sediment barriers, dust control, and vegetation protection devices shall be maintained at all times.
 BMP 3. Sediment barriers will be inspected weekly and after a rainstorm for damage and appropriate placement to reduce potential erosion. Any damaged barriers will be repaired, or new barriers installed, within 24 hours upon identification of damage. Accumulated sediment will be removed when it reaches a maximum of one-third the height of the silt fence or one-half the height of the fiber roll.
 BMP 4. To the extent practicable, dredged sediment will be stockpiled temporarily within previously disturbed upland staging areas as shown on plan sheets or immediately off loaded into a haul truck. Sediment barriers will be placed around the downslope perimeter of temporary sediment stockpiles.
 BMP 5. Loose soil mounds or surfaces shall be protected from wind or water erosion by being appropriately covered when construction is not in active progress.
 BMP 6. Unless otherwise authorized by the CWA 404/401 permits, construction staging and material storage of equipment, materials, fuels, lubricants, and solvents will be located on previously disturbed areas more than 50 feet from Marlette Lake. Equipment will be fueled and maintained within the designated staging areas or off site. Adequate supplies will be available at all times to handle spills, leaks, and disposal of used liquids. There will be no concrete washout facilities on-site.
 BMP 7. Construction equipment will be inspected at the beginning of each shift and throughout the day to prevent spills/leaks from entering the water. Spill kits will be available onsite in case a spill event occurs.
 BMP 8. The contractor will visually monitor for leaks during use of the barge within the lake. The contractor will have on board and readily available a spill kit containing absorbent booms and pads. The spill kit will be sufficient to encircle a discharge of petroleum to the lake that could occur during construction activities. The absorbent booms and pads will be used should a sheen develop on the water as the result of construction activities. Used booms and pads will be disposed of by the contractor in accordance with applicable regulations.
 BMP 9. Loose construction materials, packaging, and litter will be cleaned up daily and disposed of or stored appropriately.
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 BMP 11. Soil and construction material will not be tracked off the construction site. Perform street sweeping as necessary.
 BMP 12. No construction shall occur between October 15 and May 1, unless authorized by TRPA.
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 BMP 14. Contractor shall avoid modification to boat launch to the extent practicable or otherwise receive approval by the engineer and owner if modifications are required.
 BMP 15. If modifications to the boat ramp are necessary, appropriate sediment controls will be installed down slope of the fill material placed at the boat ramp, which may include the use of a turbidity curtain if fill is placed below the surface of the water.

DREDGING NOTES:
 BMP 17. If dredging is required, the contractor shall submit a dredging plan to the TRPA's shore zone planning team for approval prior to removing any sediment.
 BMP 18. The dredging plan shall comply with TRPA BMP guidelines and the code of ordinance chapter 84.9 where practicable.
 BMP 19. The maximum volume of dredged material shall not exceed five (5) cubic yards.
 BMP 20. The path of travel and surrounding area of dredging operations in Marlette Lake will be enclosed by a turbidity curtain to mitigate incidental sediment transport outside of the work area.
 BMP 21. Dredged spoils shall be transported to an uplands area above the Ordinary High Water Mark and backshore zones. Spoils may be temporarily stockpiled prior to off-hauling from the intake site.



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NEVADA STATE PUBLIC WORKS DIVISION
MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
BMP PLAN - EAST SHORE

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

**60% DESIGN
NOT FOR CONSTRUCTION
JULY 2026**

BAR IS 1 INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

C5.0

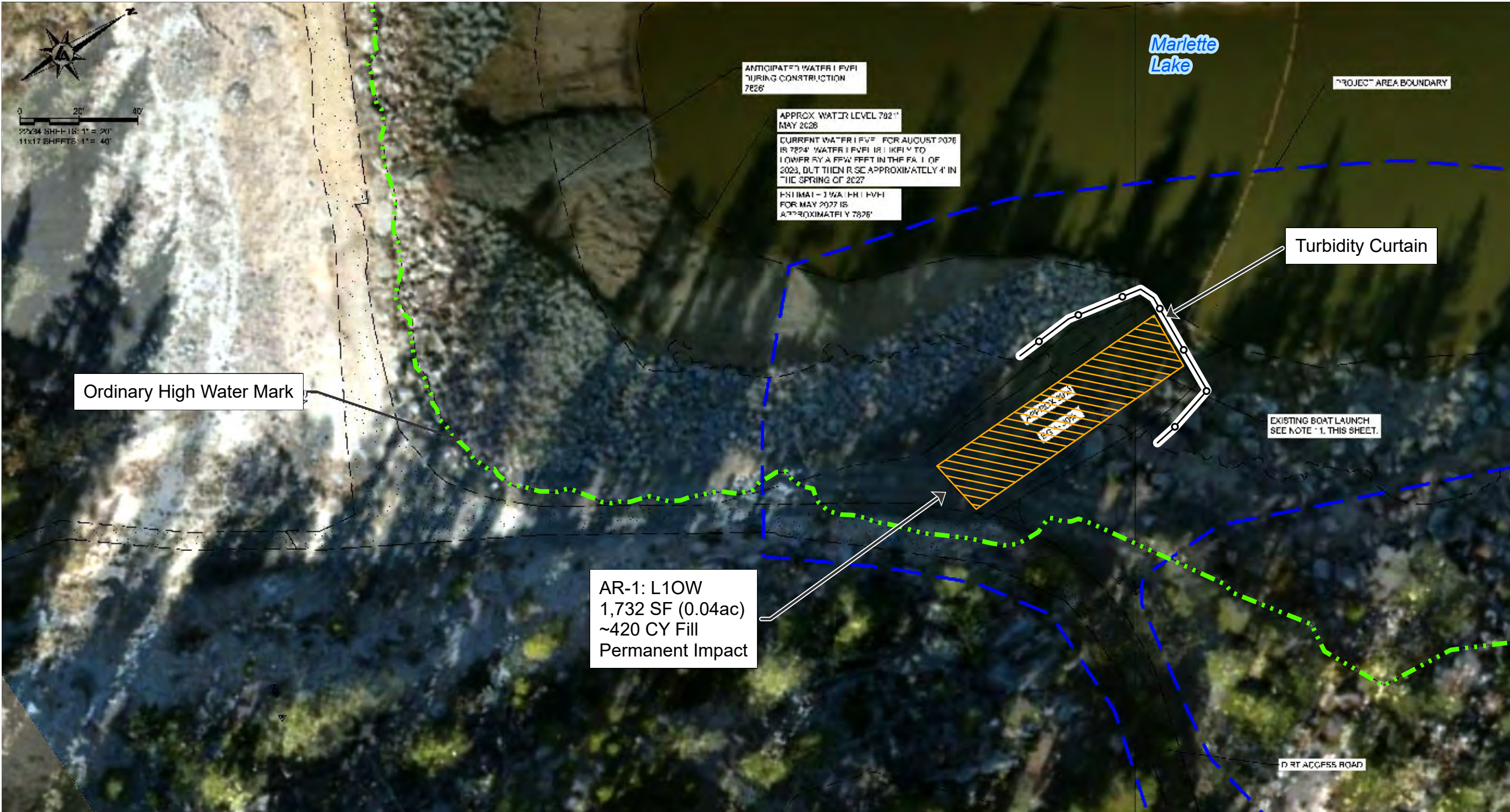
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DESIGNED BY: DN/CE
CHECKED BY: CE
JOB NO.: 10217.002



Figure 4
WOUS Impacts
Intake Structure Site

Project: Marlette Lake Intake Structure Replacement
Source: MARLETTE LAKE INTAKE STRUCTURES CIVIL IMPROVEMENT PLANS
BMP PLAN - WEST SHORE
SHEET C5.0

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GENERAL BMP NOTES:
BMP 1. All trees and natural vegetation to remain on site shall be protected.
BMP 2. During the construction period, environmental protection devices, such as erosion control, sediment barriers, dust control, and vegetation protection devices shall be maintained at all times.
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Project: Marlette Lake Intake Structure Replacement
Source: MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS BMP PLAN - WEST SHORE
SHEET C5.1

Figure 5 WOUS
Impacts Access
Road/Boat Launch
Site

- Turbidity Curtain
- OHWM
- Project Area Boundary
- AR-1: L1OW



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MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
BMP PLAN - WEST SHORE
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WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

60% DESIGN
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JULY 2026

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C5.1

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DESIGNED BY: DNICE
CHECKED BY: CE
JOB NO.: 10217.002



Attachment 2

Detailed Project Description

Attachment C – On-Site Photographs



Photo 1. Photo taken from normal water edge looking south along water line extending into drained lake. Water intake structure is located approximately 300 feet lakeward below water. Approximately 64 SF / impact to AR-1: Marlette Lake



Photo 2. OHWM-1: Marlette Lake. OHWM defined in the field by distinct topo break, lack of vegetation, and change in substrate.

Attachment C – On-Site Photographs



Photo 3. Existing access route to be used to launch barge that is needed to hoist and raise/lower the old and new intake structure for removal/installation. If needed, approximately 420 CY of rock will be placed to reduce slope, resulting in 1,732 SF (0.04 ac) of permanent impact.



Photo 4. Existing access road to boat launch area.

Attachment 3

Site Photos

Attachment 2. Project Description and Best Management Practices

Introduction and Background

The Marlette Lake Water System (MLWS) is owned by the Nevada State Public Works Division (SPWD). The MLWS provides raw water to Carson City and Storey County and is the only source of water for Virginia City, Gold Hill, and Silver City. A significant portion of the MLWS raw water supply is pumped from the east shore of Marlette Lake, eastwards to the Carson Basin, outside of the Tahoe Basin. From the pump discharge point, raw water flows by gravity east into Hobart Creek and eventually enters Hobart Reservoir.

The Marlette Lake (Lake) intake structure is located at the northeast corner of the Lake. The intake consists of a 615 feet long, 20-inch diameter high-density polyethylene (HDPE) pipeline and screened intake structure located at the submerged end of the pipeline. The intake structure is an eight (8) feet long by three (3) feet wide by three (3) feet tall aluminum box with a mesh screen opening over the upper half. The pipeline is buried onshore and runs from an underground pump-can for approximately 615 feet offshore. The pipe gradually becomes unburied as it passes from the shore to become submerged in the lake, resting on the bed of the Lake. At the opposite end of the intake line is a pump connection within an underground pump-can. The pump lifts raw water from the Marlette Lake intake east over Marlette Ridge to the Hobart Creek catchment. The intake system provides a significant portion of the MLWS's raw water supply.

The Lake is presently drawn down to approximately 20 feet below the normal high-water line due to the separately permitted Marlette Dam rehabilitation project on the opposite shore of the Lake (NV-401-24-047/SPK 2024-00521). When the Lake is full, the intake structure is submerged by approximately 32 feet of water and is approximately 615 feet offshore. The intake structure is presently submerged by approximately 12 feet of water due to the drawn-down lake level. The lake is expected to re-fill at a rate between three (3) feet and five (5) feet per year. The intake structure is partially submerged in sediment.

Project Purpose

The purpose of the proposed project is to upgrade the existing intake structure to reduce the amount of sediment uptake and buildup within the water system. Sediment built up around the intake structure has been migrating past the intake screen and entering the intake pipeline. When sediment moves past the screen, it is then sucked into the intake waterline and pumping system as a result. This phenomenon is called sand intrusion. Sand intrusion causes damage to the intake pump impellers, valves, and instrumentation. The intake pump lifts raw water from Marlette Lake east to the remainder of the MLWS. Sand intrusion from the intake therefore risks failure of vital raw water supply for communities served by the MLWS.

Project Description

The SPWD proposes to replace the existing intake structure with a new modernized design that elevates the screen above the lake-bed sediment line. This will prevent sand intrusion from further damaging the intake pump and restore security of the MLWS raw water supply. The replacement structure design will include a concrete base to anchor the intake to the lakebed. The new intake base will be the eight (8)

feet by eight (8) feet (64 s.f. / 3 CY permanent disturbance), which is approximately 40 s.f. larger than the current eight (8) feet by three (3) feet structure. The new concrete base will be set atop the existing disturbance footprint of the removed structure to minimize new disturbance to the lakebed (approximately 40 s.f. new disturbance).

The structure's new screen will be raised six (6) feet above the sediment line. The screen will be T-shaped with a fish-friendly design (per NOAA fish-safe velocities) and be effective for minimizing bio-film and other accumulation. The T-screen and mesh will be constructed of stainless steel which is NSF-61 compliant. The structure will connect to the existing pipeline with a grooved coupling located two (2) feet from the edge of the concrete base. The remainder of the HDPE pipeline and other intake infrastructure will not be altered under this project.

Site Access and Construction Methodology

Two access points will be utilized for potential staging, storage, and operations to replace the intake structure.

Access 1 - Existing Gravel Access Route.

The first point is at the established gravel access route adjacent to the Marlette Dam on the opposing shoreline from the intake structure. The access route will be used to launch a small barge and possibly to stage materials prior to barge transport. Although existing, the access route may need to be modified by the contractor to reduce the existing 30% slope in order to launch the barge. If needed, the slope of the route may be reduced by the permanent placement of gravel fill material below the ordinary high-water mark, resulting in a permanent impact of approximately 1,732 s.f. (0.04 ac / 420 c.y.). Final determination of the need to modify the access route will be made in the field by the contractor based on what is necessary to launch their equipment. The area can be accessed via the Marlette Dam access road from Spooner Trailer or from a dirt access road to the southeast corner of Marlette Lake.

The barge is needed to transport the new structure to the site and to hoist and lower both the old and new structure for removal/installation. The old structure will be transported to the access route near the dam and stored within existing upland disturbance area until hauled off site.

Additionally, the barge will also be used to facilitate mechanical sediment removal around the intake as needed. If sand removal becomes necessary to unbury the existing structure prior to removal, the Tahoe Regional Planning Agency's (TRPA) Best Management Practices (BMP) Guidelines will be followed and technical specifications outlined for a contractor to provide a deferred construction dredging plan submittal to the TRPA prior to approval. The estimated sediment removal volume is 2.5 cubic yards based on bathymetric data recorded on 6/22/2026, assuming removal may be required up to two (2) feet surrounding the structure. Allowance has been made for up to 5 cubic yards of sand removal if required.

A preliminary dredging plan has been outlined below that will form the basis of dredging technical specifications for the contractor's deferred construction dredging plan submittal.

- If dredging is required, the contractor shall submit a Dredging Plan to the TRPA's Shore Zone Planning team for approval prior to removing any sediment. The Dredging Plan shall comply with TRPA BMP Guidelines and the Code of Ordinances chapter 84.9 where practicable.

- The Dredging Plan shall also comply with the Nevada Division of Environmental Protection and U.S. Army Corps of Engineers federal permit requirements under Clean Water Act Sections 404, and 401, as applicable.
- It is recommended that the potential sand removal or dredging be carried out using a mechanically operated arm mounted on a small barge with hopper to receive dredged spoils.
- The maximum volume of dredged material shall not exceed five (5) cubic yards.
- Another small barge may accompany the mechanical arm barge, if needed, to receive and transport spoils to the shore adjacent to the intake.
- The area surrounding the intake will be enclosed by a turbidity curtain to mitigate incidental sediment transport outside of the work area.
- Spoils will be transported to an uplands area above the OHWM and backshore zones. Spoils will be temporarily stockpiled prior to off-hauling from the intake site.
- The contractor may elect to dry spoils naturally via spreading prior to off-haul from the site to reduce hauling loads. The spreading area shall be no greater than 300 square feet and shall not be located outside of either of the designated uplands option areas per the Construction Drawings. Spoils are not recommended for mechanical dewatering, as the means required to dewater will create greater disturbance in the project area than manual drying.

Once the existing structure is removed, it will be transported by a barge to a small truck and off-hauled from the site for salvage by the MLWS. The new intake structure will be pre-assembled off-site and transported to the boat launch for final configuration. The new intake concrete base will be pre-cast with lifting lugs for transportation. The concrete base will match the existing intake's footprint.

Access 2. Pump House Road

The second construction access location is at the east shore of the Lake, adjacent to the intake pump house. This site is accessed from Laxalt Road via Hobart Road, a private dirt road maintained in conjunction with the owner and the MLWS. This site does not have boat-launch capabilities, but will primarily be used for equipment coordination, diver assistance access, temporary stockpiling above the ordinary high-water mark (OHWM), and to manage construction BMPs.

Best Management Practices

To minimize soil erosion and protect water quality, BMPs would be implemented in accordance with the Tahoe Regional Planning Agency Handbook of Best Management Practices.

The proposed project incorporates the following measures.

BMPs for the protection of soil and water resources would include:

BMP 1. All trees and natural vegetation to remain on site shall be protected.

BMP 2. During the construction period, environmental protection devices, such as erosion control, sediment barriers, dust control, and vegetation protection devices shall be maintained at all times.

- BMP 3.** Sediment barriers will be inspected weekly and after a rainstorm for damage and appropriate placement to reduce potential erosion. Any damaged barriers will be repaired, or new barriers installed, within 24 hours upon identification of damage. Accumulated sediment will be removed when it reaches a maximum of one-third the height of the silt fence or one-half the height of the fiber roll.
- BMP 4.** To the extent practicable, dredged sediment will be stockpiled temporarily within previously disturbed upland staging areas as shown on plan sheets or immediately off loaded into a haul truck. Sediment barriers will be placed around the downslope perimeter of temporary sediment stockpiles.
- BMP 5.** Loose soil mounds or surfaces shall be protected from wind or water erosion by being appropriately covered when construction is not in active progress.
- BMP 6.** Unless otherwise authorized by the CWA 404/401 permits, construction staging and material storage of equipment, materials, fuels, lubricants, and solvents will be located on previously disturbed areas more than 50 feet from Marlette Lake. Equipment will be fueled and maintained within the designated staging areas or off site. Adequate supplies will be available at all times to handle spills, leaks, and disposal of used liquids. There will be no concrete washout facilities on-site.
- BMP 7.** Construction equipment will be inspected at the beginning of each shift and throughout the day to prevent spills/leaks from entering the water. Spill kits will be available onsite in case a spill event occurs.
- BMP 8.** The contractor will visually monitor for leaks during use of the barge within the lake. The contractor will have on board and readily available a spill kit containing absorbent booms and pads. The spill kit will be sufficient to encircle a discharge of petroleum to the lake that could occur during construction activities. The absorbent booms and pads will be used should a sheen develop on the water as the result of construction activities. Used booms and pads will be disposed of by the contractor in accordance with applicable regulations.
- BMP 9.** Loose construction materials, packaging, and litter will be cleaned up daily and disposed of or stored appropriately.
- BMP 10.** All construction equipment and vehicles will be washed and inspected for weed seeds and plant parts prior to bringing them onto the property. Vehicles or other traffic that may transport weed seed or plant materials will be restricted from entering the site. No washing of vehicles or heavy equipment shall be permitted anywhere on the subject property unless authorized by the governing agency.
- BMP 11.** Soil and construction material will not be tracked off the construction site. Perform street sweeping as necessary.
- BMP 12.** No construction shall occur between October 15 and May 1, unless authorized by TRPA.
- BMP 13.** All temporarily disturbed area will be revegetated in accordance with the *Tahoe Regional Planning Agency Best Management Practices Handbook*.

BMP 14. Contractor shall avoid modification to access route / boat launch to the extent practicable or otherwise receive approval by the engineer and owner if modifications are required.

BMP 15. If modifications to the access route / boat launch are necessary, appropriate sediment controls will be installed down slope of the fill material, which may include the use of a turbidity curtain if fill is placed below the surface of the water.

Dredging Notes:

BMP 17. If dredging is required, the contractor shall submit a dredging plan to the TRPA's shore zone planning team for approval prior to removing any sediment.

BMP 18. The dredging plan shall comply with TRPA BMP guidelines and the code of ordinance chapter 84.9 where practicable.

BMP 19. The maximum volume of dredged material shall not exceed five (5) cubic yards.

BMP 20. The path of travel and surrounding area of dredging operations in Marlette Lake will be enclosed by a turbidity curtain to mitigate incidental sediment transport outside of the work area.

BMP 21. Dredged spoils shall be transported to an uplands area above the Ordinary High Water Mark and backshore zones. Spoils may be temporarily stockpiled prior to off-hauling from the intake site.

Impacts to Waters of the US/State

The new intake base will be the eight (8) feet by eight (8) feet (64 s.f. / 3 CY permanent disturbance), which is approximately 40 s.f. larger than the current eight (8) feet by three (3) feet structure. The new concrete base will be set atop the existing disturbance footprint of the removed structure to minimize new disturbance to the lakebed (approximately 40 s.f. new disturbance).

If needed, the existing access route / boat launch located near the dam may require additional base material to lessen the steep slope ($\pm 30\%$) for equipment access and is expected to require approximately 1,732 s.f. (0.04 ac / max 420 CY) of rock fill atop the existing ramp to reduce the slope of the ramp.

Impact Location	Aquatic Resource	Area (s.f.)	Cubic Yards
Intake Structure	Marlette Lake	64	3
Access Route	Marlette Lake	1,732	420
	Totals	1,796 SF	423

Anticipated Implementation Dates

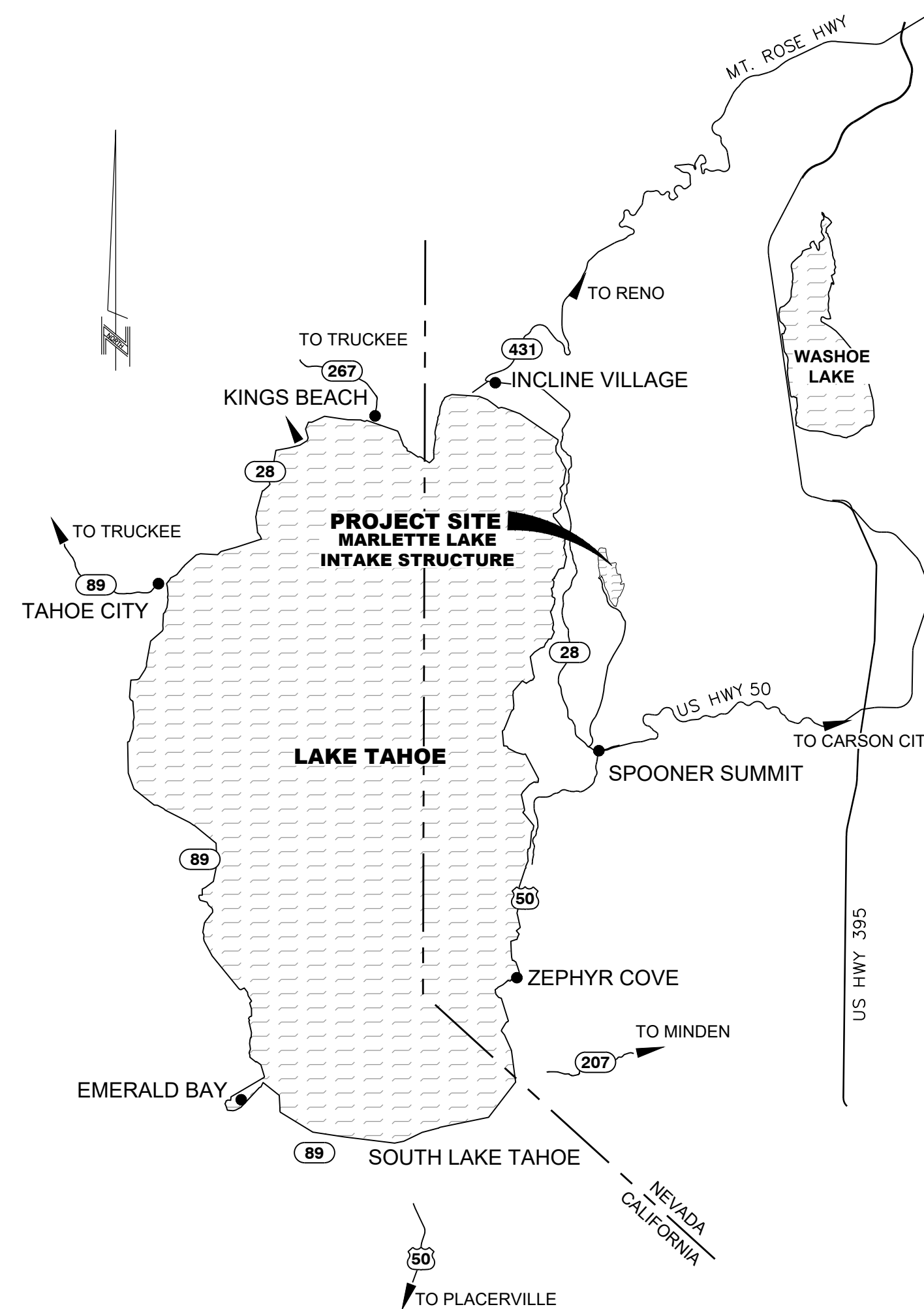
The Project is proposed to commence in May 1, 2027, depending on weather and final permit approvals and anticipated to be completed by October 15, 2027.

Attachment 4

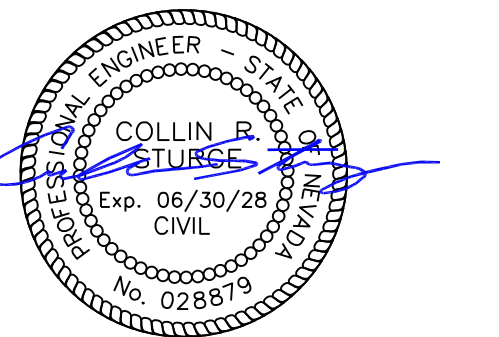
Project Plans and Specifications

MARLETTE LAKE INTAKE STRUCTURE UPGRADES

SPWD PROJECT NO. ##
PWP: WA-2026-XXX



Sheet Number	Sheet Title
C1.0	TITLE SHEET
C1.1	NOTES, LEGEND & ABBREVIATIONS
C1.2	CONTROL, INDEX AND DESIGN CRITERIA
C2.0	CONSTRUCTION ACCESS PLAN
C3.0	EXISTING SITE PLAN
C4.0	PLAN & PROFILE
C5.0	BMP PLAN
C5.1	TEMPORARY CONSTRUCTION ACCESS RAMP
D1.0	TRPA BMP DETAILS
D1.1	CIVIL DETAILS
S0.1	STRUCTURAL NOTES
S0.1.1	SPECIAL INSPECTION REQUIREMENTS
S0.2	TYPICAL DETAILS
S1.0	STRUCTURAL PLANS
S1.1	STRUCTURAL SECTIONS
S2.0	ISOMETRIC VIEWS



NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURE
CIVIL IMPROVEMENT PLANS

TITLE SHEET

WASHOE COUNTY

NEVADA

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IF NOT ONE INCH ON THIS SHEET,
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DRAWN BY: AAM
DESIGNED BY: DN/CE
CHECKED BY: CE
JOB NO.: 10217.002

NOTES:

GENERAL

- ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, "ORANGE BOOK" 12TH EDITION, REVISION 8.
- THE CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY THE PERMITTING ENTITY, FOR ALL DETAILING NOT SHOWN ON THESE PLANS.
- CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE MEETING WITH OWNER'S REPRESENTATIVES AND THE PROJECT ENGINEER PRIOR TO COMMENCING WORK, IN ACCORDANCE WITH THE GENERAL CONDITIONS OF CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN AN ONSITE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, FIELD CHANGES, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS. RECORDS SHALL BE IN GOOD ORDER AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO ORDERING OR INSTALLATION. A SIGNED SET OF REVIEWED SUBMITTALS MUST ALWAYS BE AVAILABLE ONSITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-642-2444 TO PROVIDE FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROCURE ALL NECESSARY PERMITS, LICENSES, INSURANCE POLICIES, ETC. AS MAY BE NECESSARY TO COMPLY WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK; UNLESS OTHERWISE OBTAINED BY THE OWNER.
- THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA, ON SR-28, AND FOR PEDESTRIAN SAFETY ON NORTH CANYON ROAD. ALL TRAFFIC CONTROL OPERATIONS SHALL COMPLY WITH THE LATEST MUTCD. AT NO TIME WILL OBSTRUCTIONS BE LEFT IN THE ROADWAY DURING NIGHT HOURS. ALL TRAFFIC CONTROL PLANS SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR ATSSA CERTIFIED PERSONNEL.
- THE CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTROL AND THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618.
- THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
- TEMPORARY CONSTRUCTION FENCING SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT IN AREAS AS DELINEATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE TEMPORARY FENCING SHALL PREVENT CHILDREN AND PETS FROM ENTERING THE CONSTRUCTION AREA, AND PROTECT VEGETATION FROM CONSTRUCTION EQUIPMENT.
- THE CONTRACTOR SHALL USE ONLY AUTHORIZED SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AND OBTAIN PROPER APPROVALS FROM THE LAND OWNER AND LOCAL GOVERNING AUTHORITY TO DO SO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. IN THE EVENT A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE THE MONUMENT REPLACED, AT HIS OWN EXPENSE, BY A LICENSED SURVEYOR IN THE STATE OF THE PROJECT SITE.
- CONSTRUCTION HOURS SHALL BE IN ACCORDANCE WITH THE OWNER'S GENERAL CONDITIONS OF CONTRACT UNLESS OTHERWISE DICTATED BY LOCAL ORDINANCE. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER AND TRPA TO MODIFY WORK HOURS.
- ALL FIELD CHANGES MUST BE PRE-APPROVED BY THE PROJECT ENGINEER.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- ALL SALVAGED MATERIALS ARE THE PROPERTY OF THE OWNER AND SHALL BE PALLETIZED ONSITE UNLESS OTHERWISE ARRANGED WITH THE OWNER AND/OR PROJECT ENGINEER.
- THE OWNER IS RESPONSIBLE FOR FURNISHING QUALIFIED SITE INSPECTIONS AS REQUIRED TO COMPLY WITH LOCAL ORDINANCES.
- A GEOTECHNICAL INVESTIGATION WAS PERFORMED FOR THIS PROJECT. ALL RECOMMENDATIONS INCLUDED IN THE REPORT ARE HEREBY MADE A PART OF THE CONSTRUCTION DOCUMENTS. INSPECTION AND TESTING DURING CONSTRUCTION SHALL BE REQUIRED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN THE REPORT.
- EXISTING TOPOGRAPHY SHOWN ON THE PLANS WITHIN MARLETTE LAKE IS BASED ON MULTI-BEAM SONAR BATHYMETRIC SURVEY PERFORMED BY CINQUINI & PASSARINO, INC., ORIGINALLY RECORDED ON 9/27/2022, SUPPLEMENTED ON 4/20/2023 AND AGAIN ON 6/17/2026. ALL OTHER EXISTING TOPOGRAPHY REMAINS THE SAME.

UNDERGROUND UTILITIES

- THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY- EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL SUPPORT TRENCH SIDEWALLS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND GOVERNING SAFETY REGULATIONS. SHEETING OR SHORING SHALL CONFORM TO LOCAL REGULATIONS AND OSHA STANDARDS.
- ENDS OF UNFINISHED PIPE SHALL BE SEALED AT THE END OF EACH DAY.
- ALL UNDERGROUND VALVES, TEES, FITTINGS, ETC. LARGER THAN 2" SHALL BE COATED TO PROTECT AGAINST CORROSION.

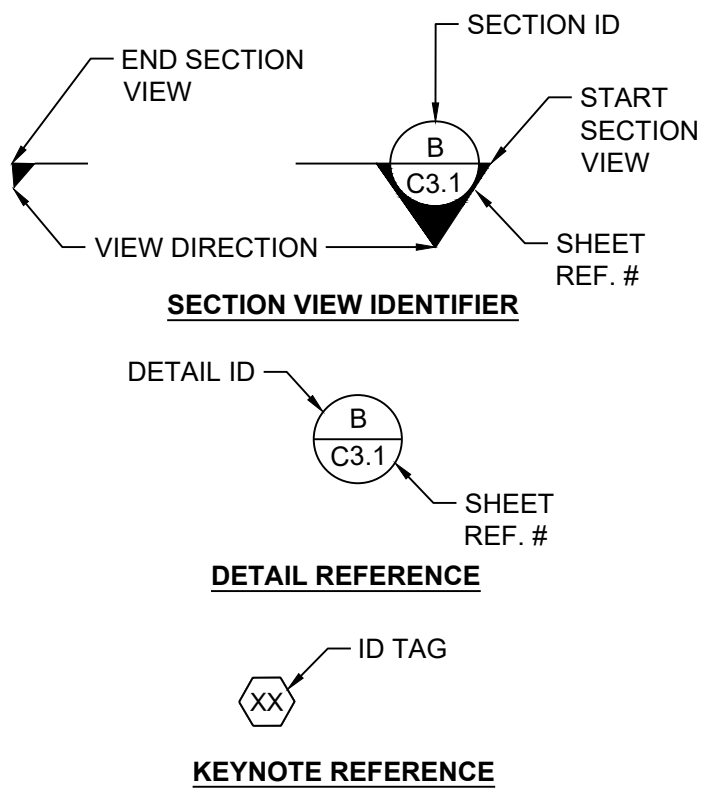
GRADING, EXCAVATION & SURFACE IMPROVEMENTS

- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY TAKE-OFF AND SHALL BUDGET ACCORDINGLY.
- ALL EXCESS GRADING MATERIALS SHALL BE DISPOSED OF AT AN APPROVED LOCATION.
- ALL EARTHWORK ACTIVITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT PER GENERAL NOTE 24.
- THE SOILS ENGINEER SHALL APPROVE ALL EARTHWORK AND GRADING TO CONFIRM COMPACTION REQUIREMENTS ARE MET.
- CONTRACTOR SHALL PROTECT EXISTING CONDITIONS NOT SPECIFICALLY CALLED OUT FOR REPLACEMENT. CONTRACTOR SHALL REPAIR/REPLACE ANYTHING DAMAGED BY FORCES UNDER THEIR EMPLOY OR CONTRACT.

ENVIRONMENTAL

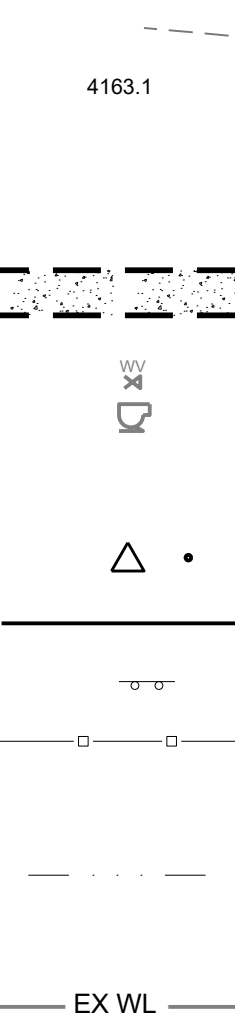
- ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND MAINTAINING A SWPPP.
- INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION AND SILTATION FROM ENTERING NATURAL DRAINAGE COURSES. EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
- THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM INCLUDING WATERING OF OPEN AREAS, TO CONFORM WITH THE LATEST FEDERAL, STATE, AND COUNTY AIR POLLUTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UPDATING DUST CONTROL PERMITS FOR THE PROJECT.
- ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION OF AN APPROVED DUST PALLIATIVE OR HYDROMULCH.
- THE CONTRACTOR SHALL IDENTIFY A STANDBY CREW FOR EMERGENCY WORK AND THEY SHALL BE AVAILABLE AT ALL TIMES. MATERIAL NECESSARY TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION CONTROL MEASURES SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS.
- PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES. GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED.
- FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE END OF EACH WORKING DAY.
- ALL DISTURBED AREAS ARE REQUIRED TO HAVE A PALLIATIVE APPLIED FOR DUST CONTROL. ALL GRADING SHALL COMPLY WITH STATE AND COUNTY REGULATIONS.
- ALL AREAS DISTURBED BECAUSE OF THE WORK SHALL BE REVEGETATED IN ACCORDANCE WITH INDUSTRY BEST MANAGEMENT PRACTICES AND TRPA APPROVED NATIVE SEED MIX.
- NO CONSTRUCTION MATERIALS SHALL BE STORED IN A STREAM ENVIRONMENT ZONES (SEZ) AT ANY TIME EXCEPT WHERE DESIGNATED ON THE PLANS IN THE VICINITY OF MARLETTE CREEK DOWNSTREAM OF THE DAM WITHIN THE AREA OF POTENTIAL EFFECT.

DETAIL GUIDELINE:

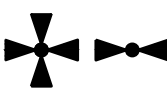
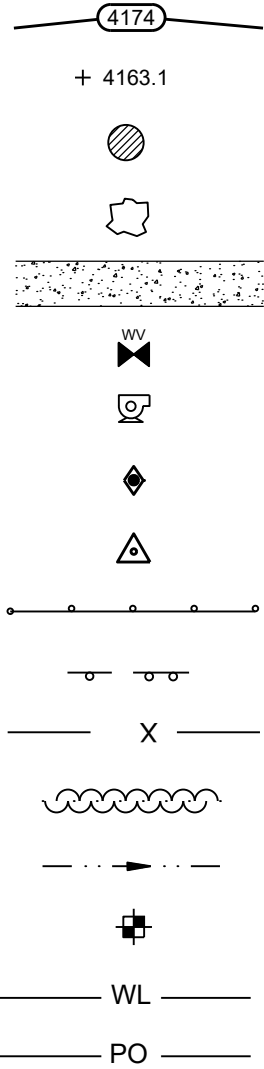


LEGEND

EXISTING



PROPOSED



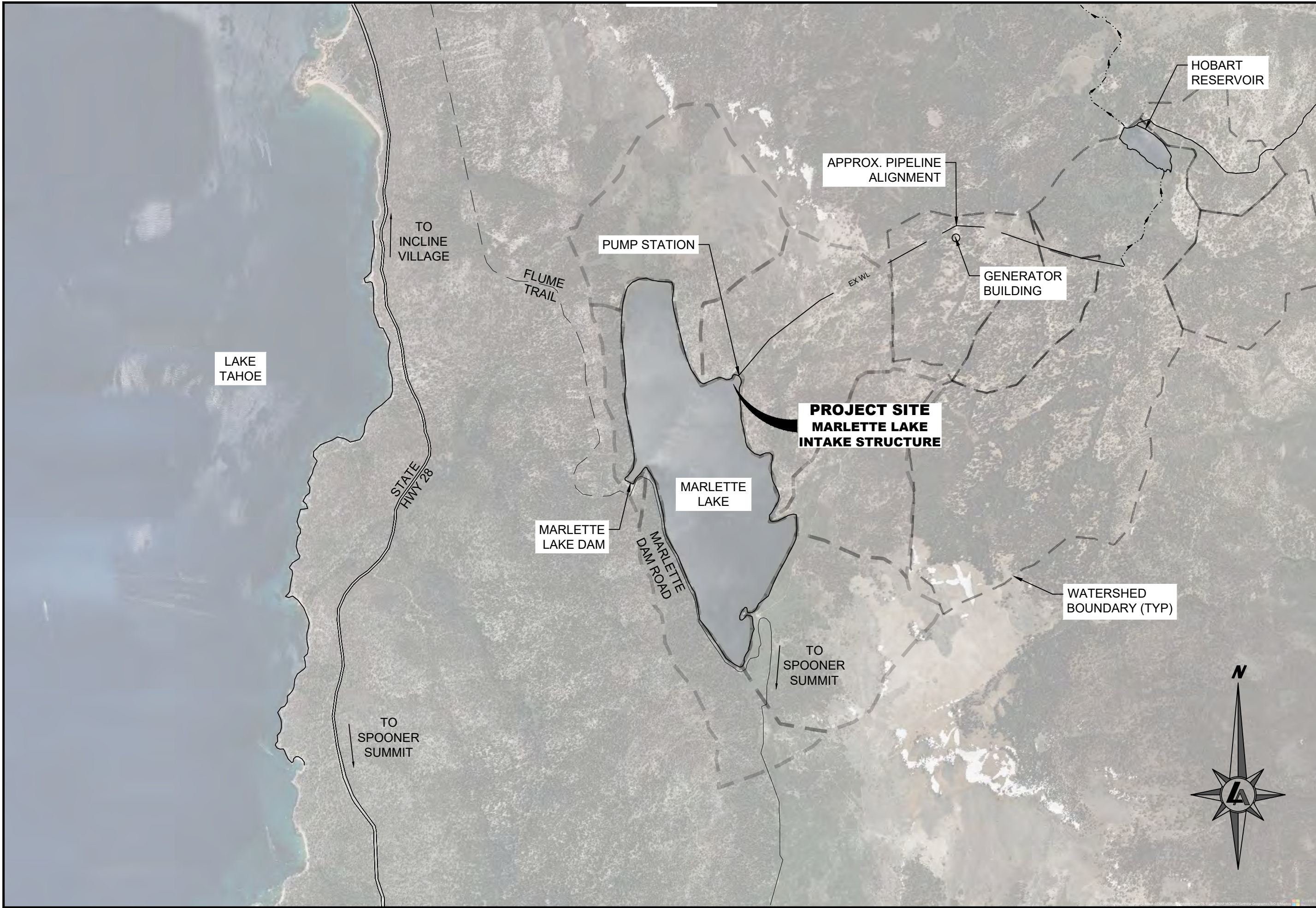
FOUND SECTION CORNER AS NOTED
(FOUND 5/8" REBAR AND CAP "PLS 14413" - UNLESS OTHERWISE NOTED SET 5/8" REBAR AND CAP "PLS 17616" - UNLESS OTHERWISE NOTED)

AC-FT	ACRE FEET	MJ	MECHANICAL JOINT
BOW	BOTTOM OF WALL	N	NORTH
CFs	CUBIC FEET PER SECOND	NAP	NOT A PART
CF	CUBIC FEET	NIP	NOT IN PROJECT
CL	CENTER LINE	NTS	NOT TO SCALE
CMP	CLASS / CENTER LINE	OAE	OR APPROVED EQUAL
COMP	CORRUGATED METAL PIPE	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONTR	CONTRACTOR	OH	OVERHEAD
DI	DROP INLET	OHWM	ORDINARY HIGH WATER MARK
DIA	DIAMETER	(P)	PROPOSED
E	EAST	PCC	PORTLAND CEMENT CONCRETE
EA	EACH	PG	PAD GRADE
ELC	EPOXY LINED AND COATED	PL	PROPERTY LINE
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EX, (E)	EXISTING	PVMT	PAVEMENT
EXT	EXTERIOR	RCP	REINFORCED CONCRETE PIPE
FCA	FLANGE COUPLING ADAPTER	REF	REFERENCE
FE	FINISH ELEVATION	RT	RIGHT
FES	FLARED END SECTION	R/W, ROW	RIGHT-OF-WAY
FF	FINISH FLOOR	S	SLOPE
FG	FINISH GRADE	SSPWC	STANDARD SPEC. FOR PUBLIC WORKS CONSTRUCTION
FL	FLOW LINE	STA	STATION
FLG	FLANGE	TG	TO GRADE
FTG	FOOTING	TYP	TYPICAL
GALV	GALVANIZED	W	WEST
GB	GRADE BREAK	WSE	WATER SURFACE ELEVATION
GD	GROUND		
HGL	HYDRAULIC GRADE LINE		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
JB	JUNCTION BOX		
LAT	LATERAL		
LF	LINEAR FEET		
LP	LOW POINT		
LT	LEFT		
MAX	MAXIMUM		
MDD	MAXIMUM DRY DENSITY		
MH	MANHOLE		
MIN	MINIMUM		



Know what's below.
Call before you dig.

MARLETTE LAKE VICINITY MAP



0 1000' 2000'
22x34 SHEETS = HORIZONTAL: 1"=1000'
11x17 SHEETS = HORIZONTAL: 1"=2000'

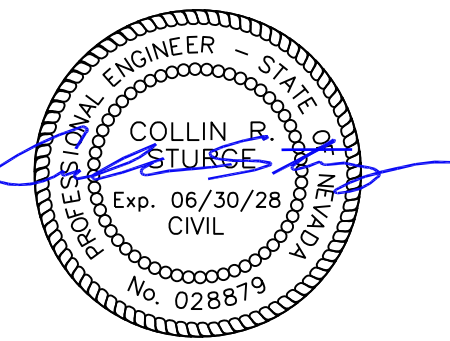
ABBREVIATIONS



308 N. CURRY ST., STE. 200
CARSON CITY, NV 89703
TEL: 775.883.7077

WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

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8/28/26

MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
NOTES, LEGEND & ABBREVIATIONS

NEVADA STATE PUBLIC WORKS DIVISION

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 2026

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ORIGINAL DRAWING
0 N.T.S.

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

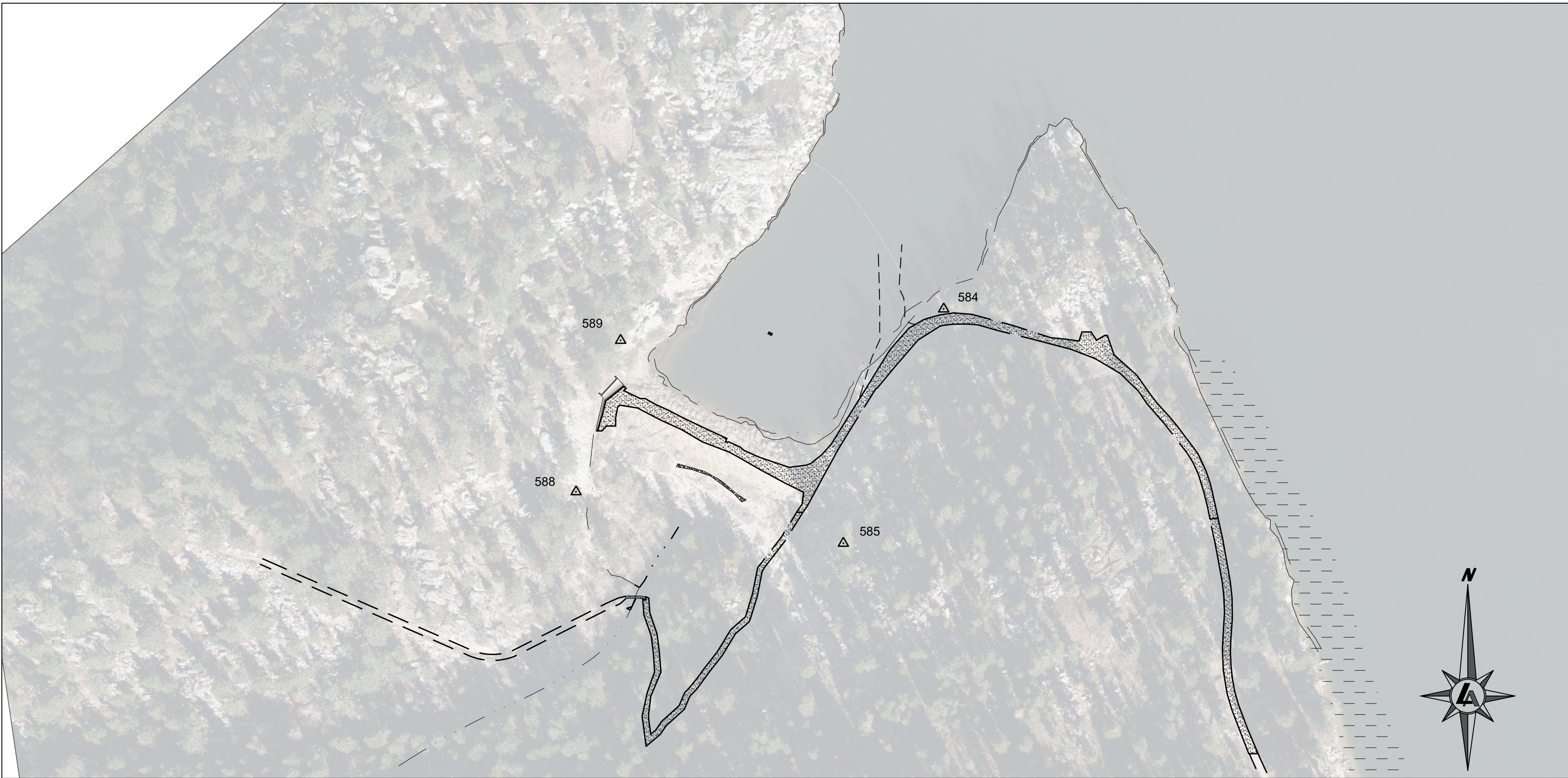
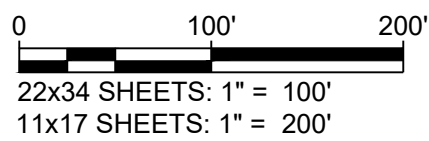
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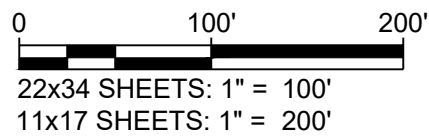
PROPOSED SITE DESIGN PLAN GENERAL OVERVIEW:



INTAKE STRUCTURE SITE - EAST SHORE



BOAT LAUNCH SITE - WEST SHORE



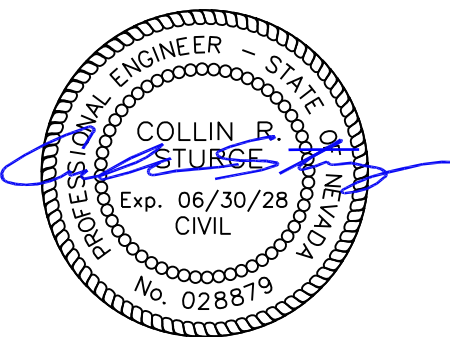
PROJECT CONTROL:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
570				
584				
585				
588				
589				



950 SANDHILL ROAD, SUITE 100
RENO, NV 89521
TEL: 775.827.6111
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8/28/26

NEVADA STATE PUBLIC WORKS DIVISION
MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
CONTROL, INDEX AND DESIGN CRITERIA
WASHOE COUNTY
NEVADA

REV	DATE	DESCRIPTION	BY

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 2026

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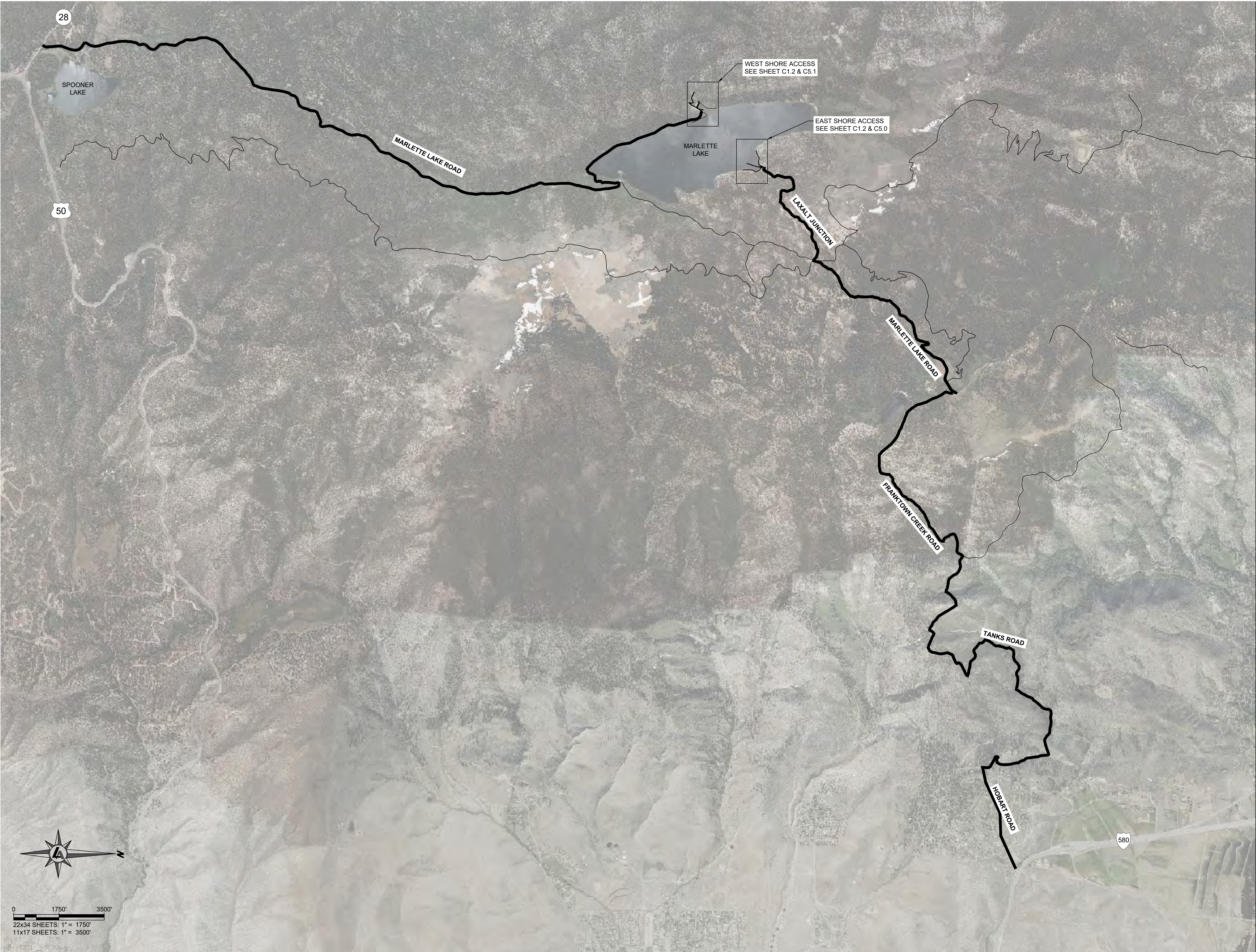


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DESIGNED BY: DN/CE
CHECKED BY: CE
JOB NO.: 10217.002

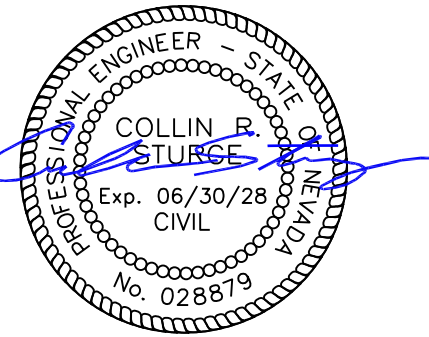
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08/27/2026 05:46 pm omsdrgal



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8/28/26

NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
CONSTRUCTION ACCESS PLAN

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 2026

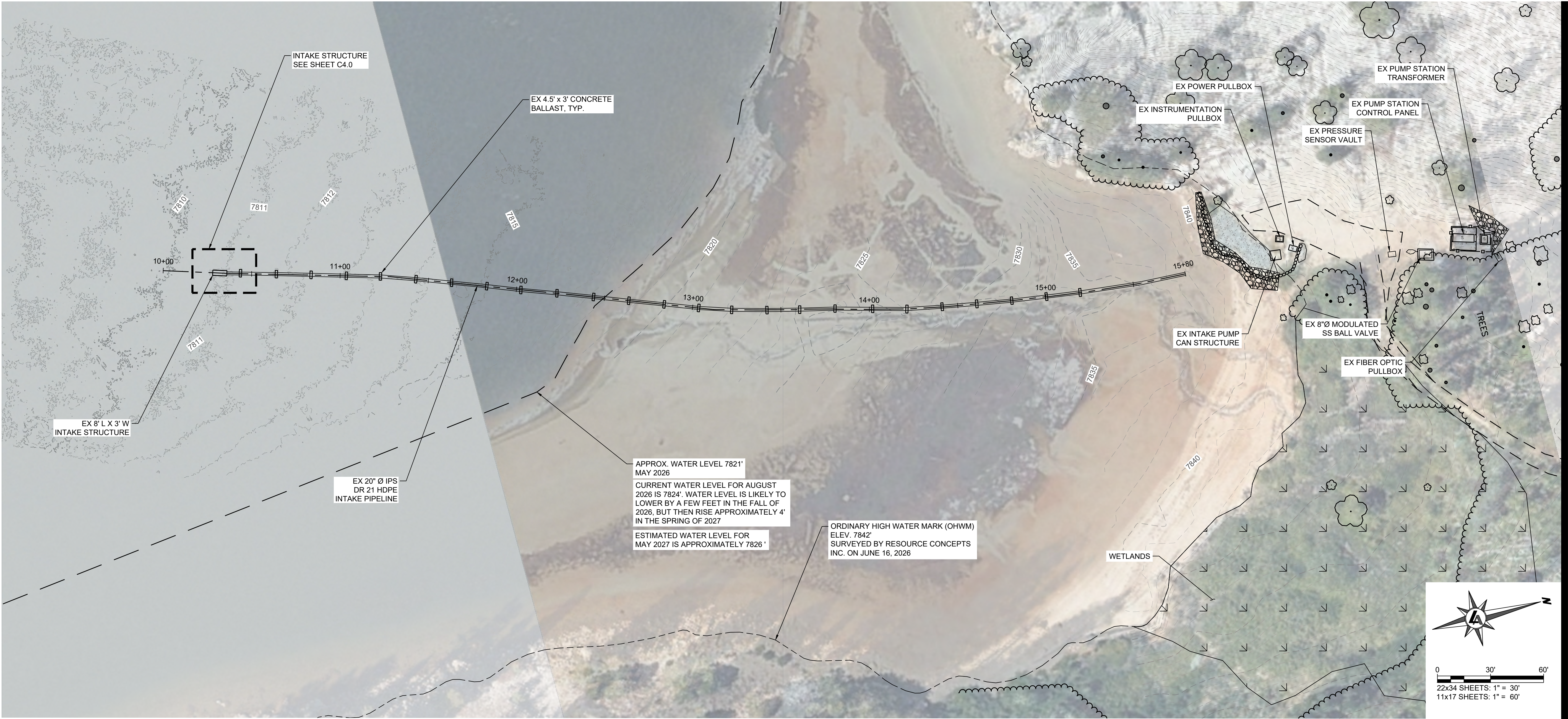
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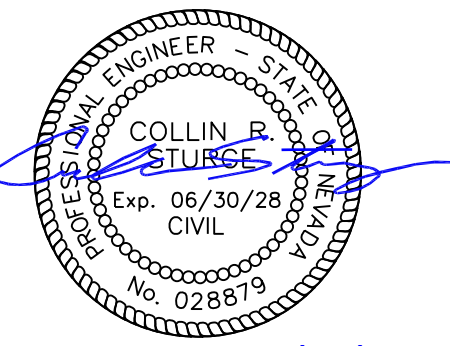
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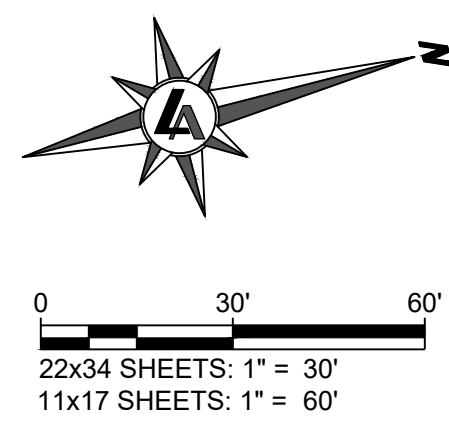
8/28/26

NEVADA STATE PUBLIC WORKS DIVISION

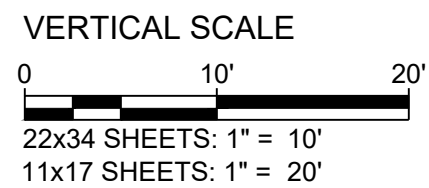
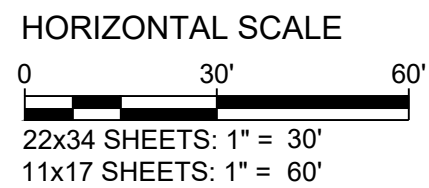
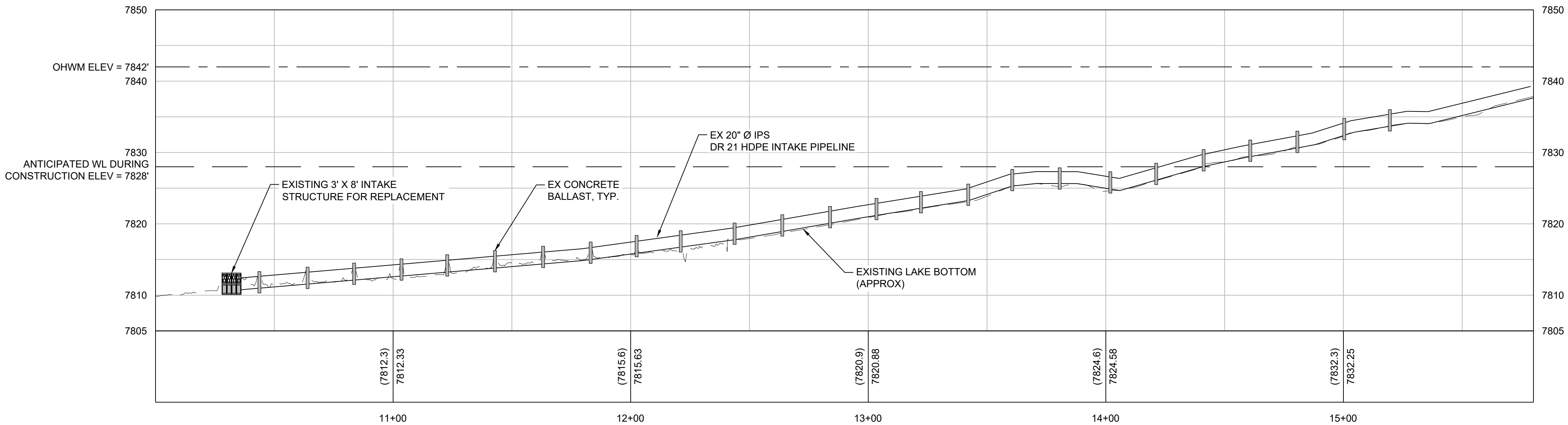
MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
EXISTING SITE PLAN

NEVADA

WASHOE COUNTY



INTAKE PIPE ALIGNMENT - STA:10+00 TO STA:15+80



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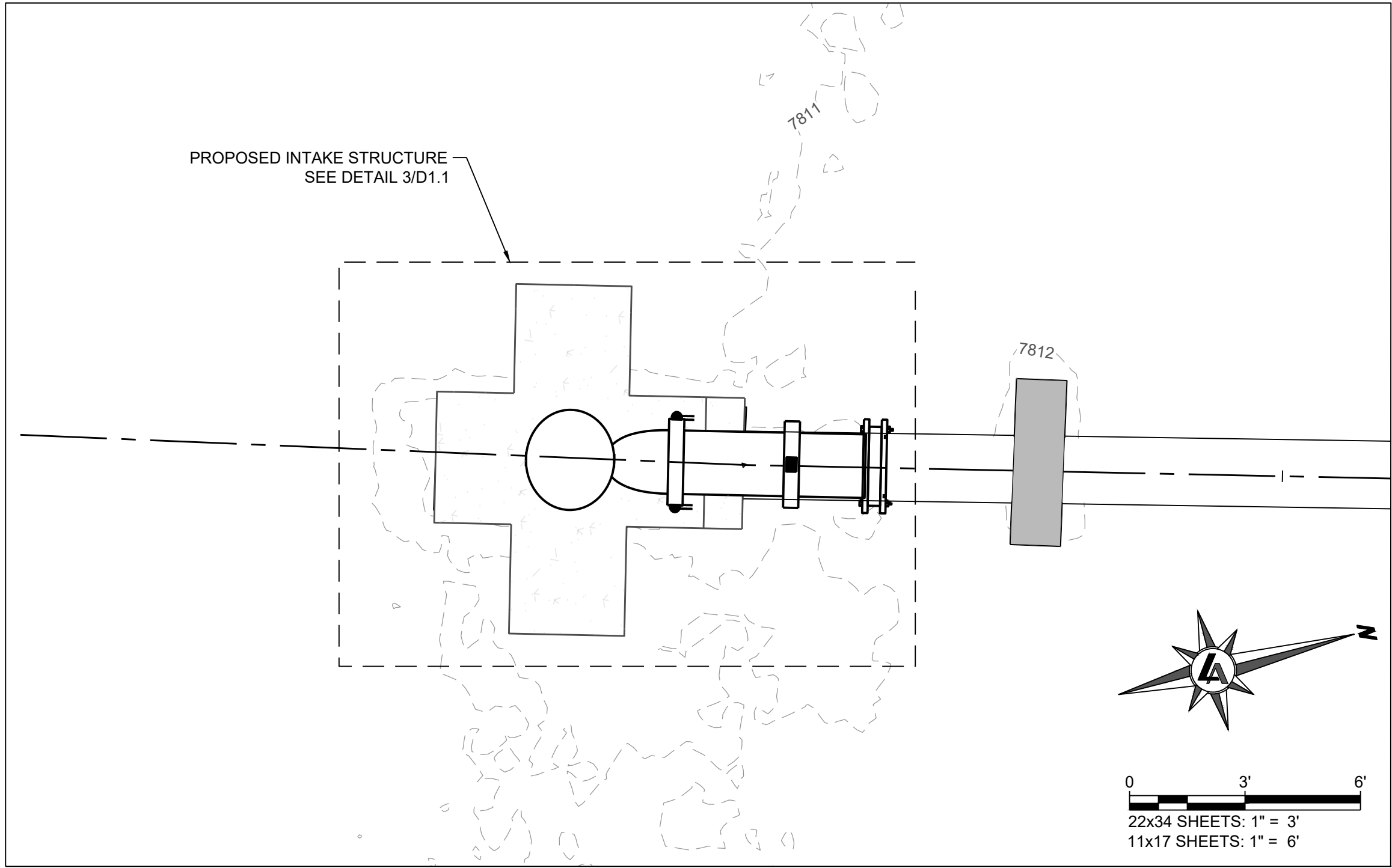
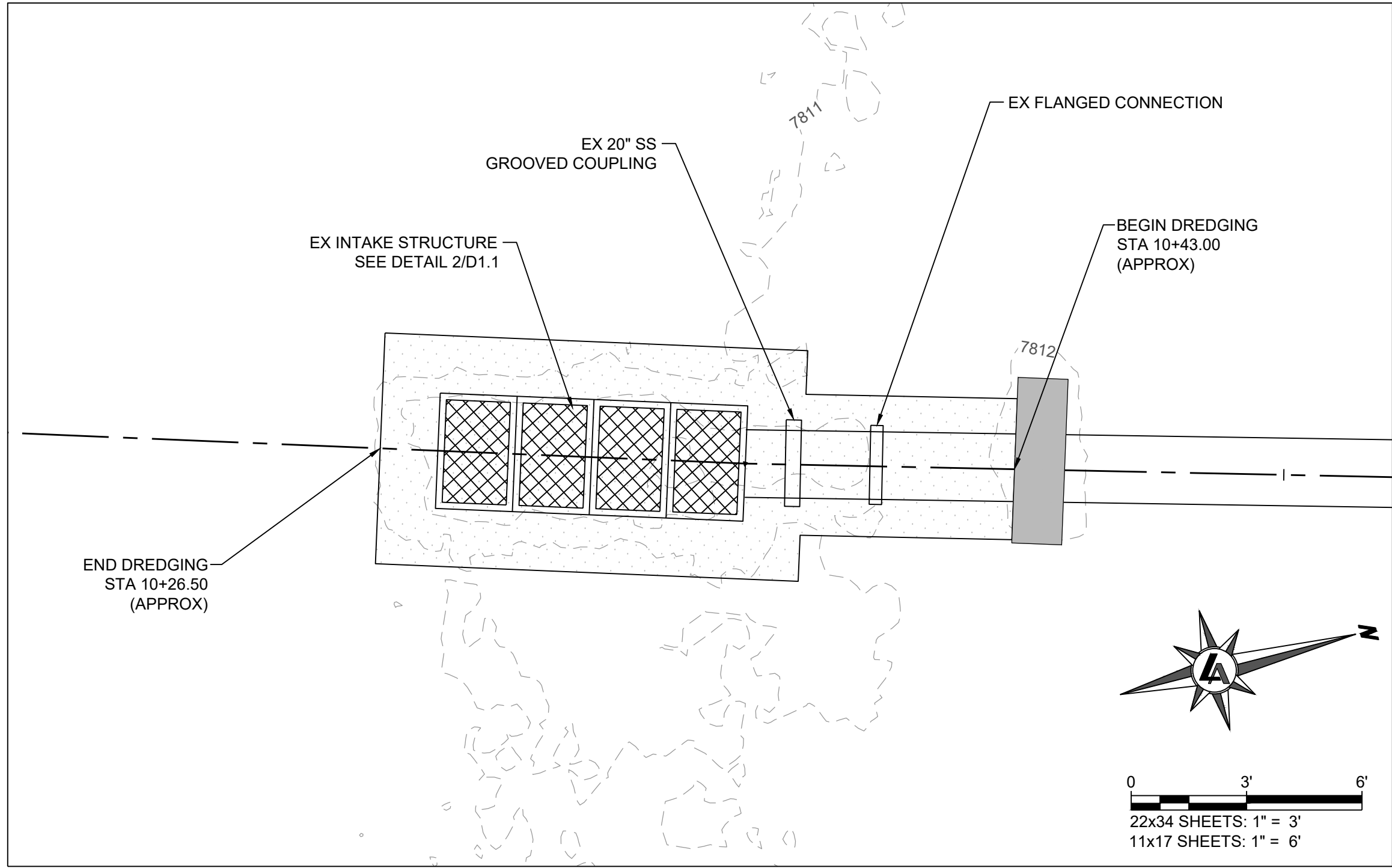
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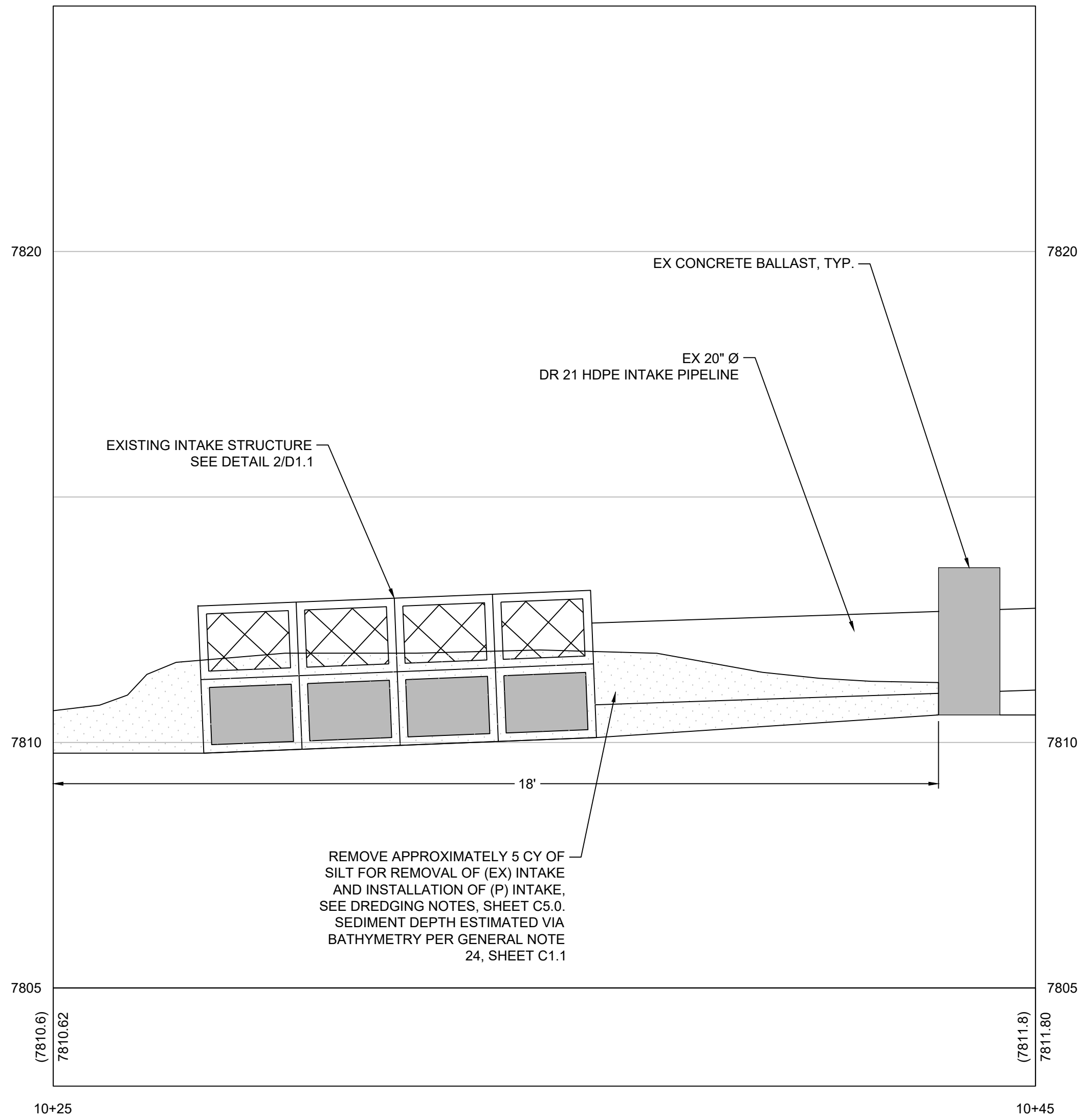
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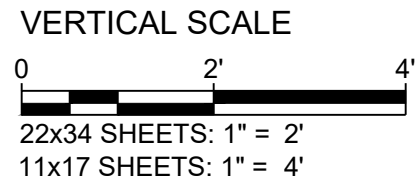
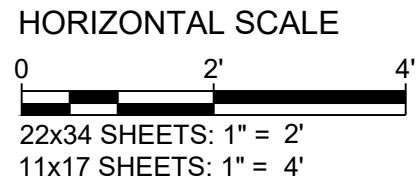
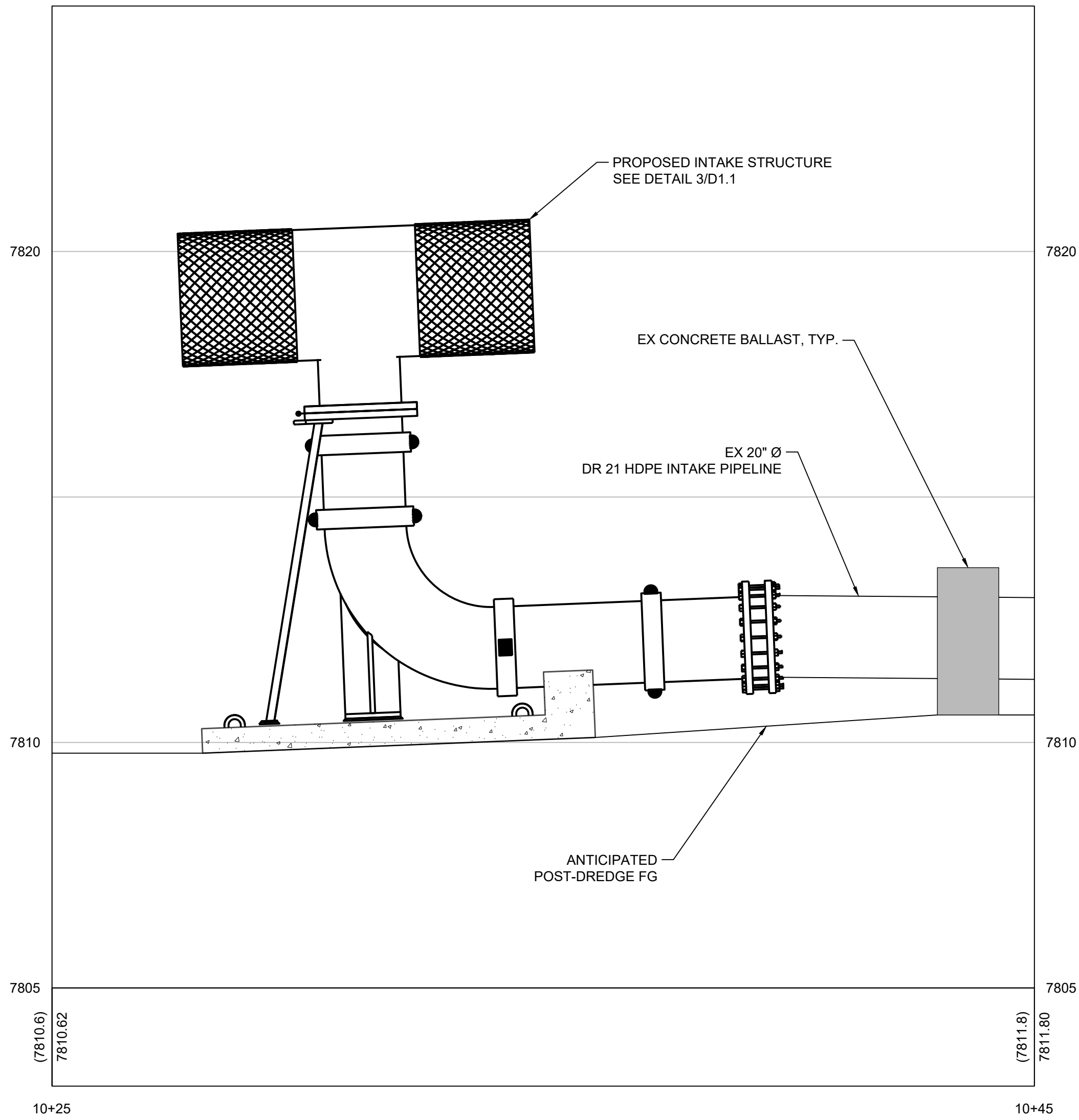


SHEET NOTES:
1.

EXISTING INTAKE STRUCTURE - STA:10+25 TO STA:10+45



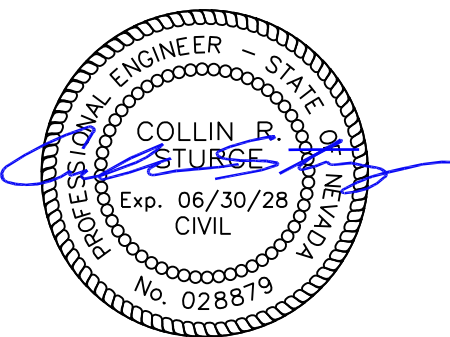
PROPOSED INTAKE STRUCTURE - STA:10+25 TO STA:10+45



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8/28/26

NEVADA STATE PUBLIC WORKS DIVISION

**MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
PLAN & PROFILE**

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

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NOT FOR CONSTRUCTION
AUGUST 2026**

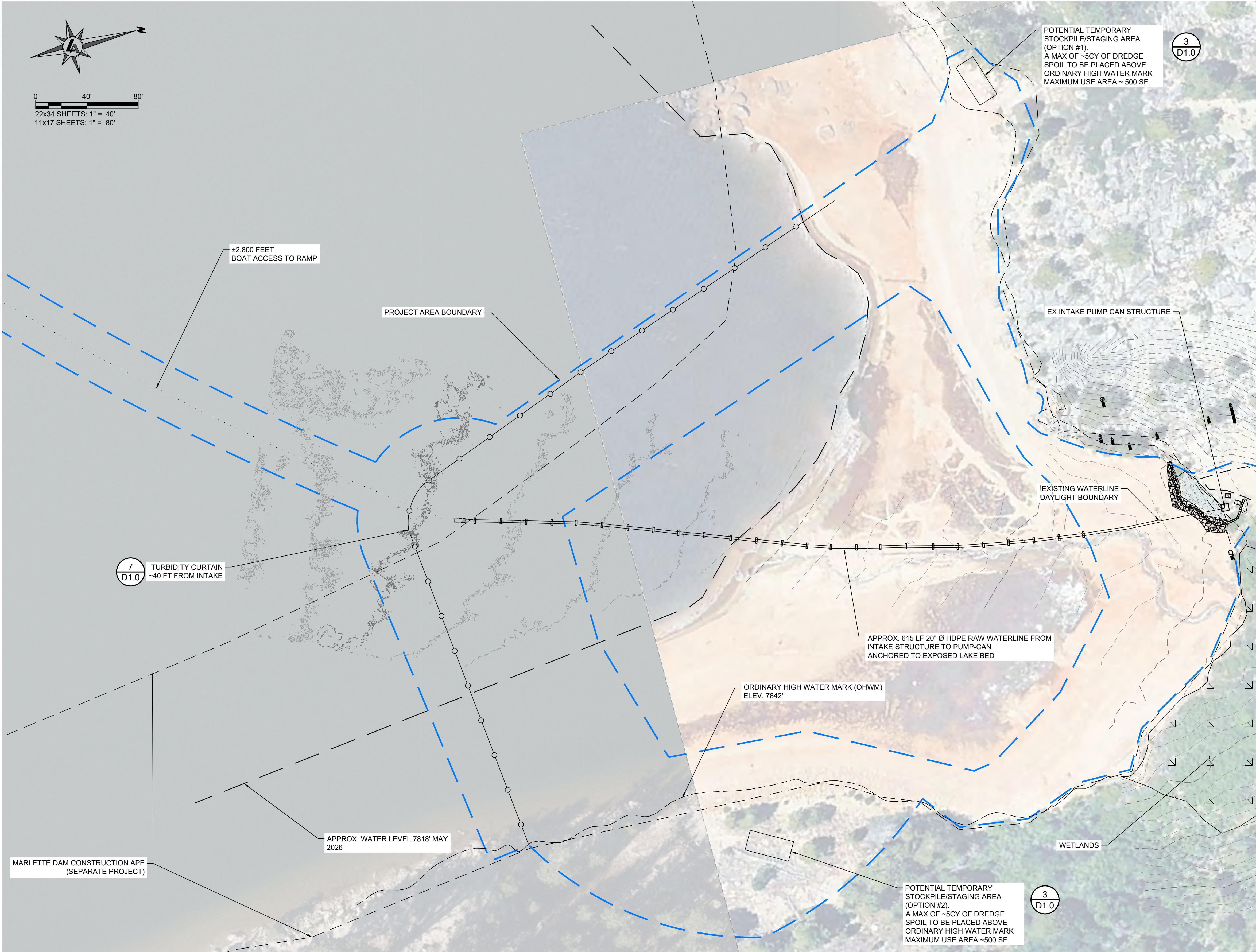
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GENERAL BMP NOTES:

1. ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED.
2. DURING THE CONSTRUCTION PERIOD, ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, SEDIMENT BARRIERS, DUST CONTROL AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES.
3. SEDIMENT BARRIERS WILL BE INSPECTED WEEKLY AND AFTER A RAINSTORM FOR DAMAGE AND APPROPRIATE PLACEMENT TO REDUCE POTENTIAL EROSION. ANY DAMAGED BARRIERS WILL BE REPAIRED, OR NEW BARRIERS INSTALLED, WITHIN 24 HOURS UPON IDENTIFICATION OF DAMAGE. ACCUMULATED SEDIMENT WILL BE REMOVED WHEN IT REACHES A MAXIMUM OF ONE-THIRD THE HEIGHT OF THE SILT FENCE OR ONE-HALF THE HEIGHT OF THE FIBER ROLL.
4. TO THE EXTENT PRACTICABLE, DREDGED SEDIMENT WILL BE STOCKPILED TEMPORARILY WITHIN PREVIOUSLY DISTURBED UPLAND STAGING AREAS AS SHOWN ON PLAN SHEETS OR IMMEDIATELY OFF LOADED INTO A HAUL TRUCK. SEDIMENT BARRIERS WILL BE PLACED AROUND THE DOWNSLOPE PERIMETER OF TEMPORARY SEDIMENT STOCKPILES.
5. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS.
6. UNLESS OTHERWISE AUTHORIZED BY THE CWA 404/401 PERMITS, CONSTRUCTION STAGING AND MATERIAL STORAGE OF EQUIPMENT, MATERIALS, FUELS, LUBRICANTS, AND SOLVENTS WILL BE LOCATED ON PREVIOUSLY DISTURBED AREAS MORE THAN 50 FEET FROM MARLETTE LAKE. EQUIPMENT WILL BE FUELED AND MAINTAINED WITHIN THE DESIGNATED STAGING AREAS OR OFF SITE. ADEQUATE SUPPLIES WILL BE AVAILABLE AT ALL TIMES TO HANDLE SPILLS, LEAKS, AND DISPOSAL OF USED LIQUIDS.
7. CONSTRUCTION EQUIPMENT WILL BE INSPECTED AT THE BEGINNING OF EACH SHIFT AND THROUGHOUT THE DAY TO PREVENT SPILLS/LEAKS FROM ENTERING THE WATER. SPILL KITS WILL BE AVAILABLE ONSITE IN CASE A SPILL EVENT OCCURS.
8. THE CONTRACTOR WILL VISUALLY MONITOR FOR LEAKS DURING USE OF THE BARGE WITHIN THE LAKE. THE CONTRACTOR WILL HAVE ON BOARD AND READILY AVAILABLE A SPILL KIT CONTAINING ABSORBENT BOOMS AND PADS. THE SPILL KIT WILL BE SUFFICIENT TO ENCIRCLE A DISCHARGE OF PETROLEUM TO THE LAKE THAT COULD OCCUR DURING CONSTRUCTION ACTIVITIES. THE ABSORBENT BOOMS AND PADS WILL BE USED SHOULD A SHEEN DEVELOP ON THE WATER AS THE RESULT OF CONSTRUCTION ACTIVITIES. USED BOOMS AND PADS WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE REGULATIONS.
9. LOOSE CONSTRUCTION MATERIALS, PACKAGING, AND LITTER WILL BE CLEANED UP DAILY AND DISPOSED OF OR STORED APPROPRIATELY.
10. ALL CONSTRUCTION EQUIPMENT AND VEHICLES WILL BE WASHED AND INSPECTED FOR WEED SEEDS AND PLANT PARTS PRIOR TO BRINGING THEM ONTO THE PROPERTY. VEHICLES OR OTHER TRAFFIC THAT MAY TRANSPORT WEED SEED OR PLANT MATERIALS WILL BE RESTRICTED FROM ENTERING THE SITE. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY THE GOVERNING AGENCY.
11. SOIL AND CONSTRUCTION MATERIAL WILL NOT BE TRACKED OFF THE CONSTRUCTION SITE. PERFORM STREET SWEEPING AS NECESSARY.
12. NO CONSTRUCTION SHALL OCCUR BETWEEN OCTOBER 15 AND MAY 1, UNLESS AUTHORIZED BY TRPA.
13. ALL TEMPORARILY DISTURBED AREA WILL BE REVEGETATED IN ACCORDANCE WITH THE TAHOE REGIONAL PLANNING AGENCY BEST MANAGEMENT PRACTICES HANDBOOK.
14. CONTRACTOR SHALL AVOID MODIFICATION TO BOAT LAUNCH TO THE EXTENT PRACTICABLE, OR OTHERWISE RECEIVE APPROVAL BY THE ENGINEER AND OWNER IF MODIFICATIONS ARE REQUIRED.
15. IF MODIFICATIONS TO THE BOAT RAMP ARE NECESSARY, APPROPRIATE SEDIMENT CONTROLS WILL BE INSTALLED DOWN SLOPE OF THE FILL MATERIAL PLACED AT THE BOAT RAMP, WHICH MAY INCLUDE THE USE OF A TURBIDITY CURTAIN IF FILL IS PLACED BELOW THE SURFACE OF THE WATER.

DREDGING NOTES:

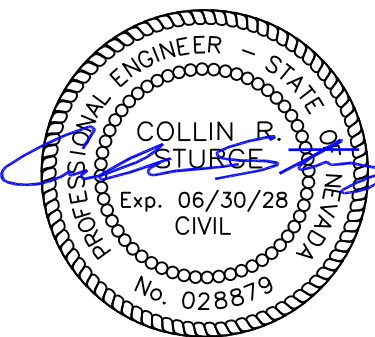
16. IF DREDGING IS REQUIRED, THE CONTRACTOR SHALL SUBMIT A DREDGING PLAN TO THE TRPA'S SHOREZONE PLANNING TEAM FOR APPROVAL PRIOR TO REMOVING ANY SEDIMENT.
17. THE DREDGING PLAN SHALL COMPLY WITH TRPA BMP GUIDELINES AND THE CODE OF ORDINANCE CHAPTER 84.9 WHERE PRACTICABLE. THE DREDGING PLAN SHALL ALSO COMPLY WITH THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION AND U.S. ARMY CORPS OF ENGINEERS FEDERAL PERMIT REQUIREMENTS UNDER SECTIONS 404, 401, AND THE CLEAN WATER ACT AS APPLICABLE.
18. THE MAXIMUM VOLUME OF DREDGED MATERIAL SHALL NOT EXCEED FIVE (5) CUBIC YARDS.
19. THE PATH OF TRAVEL AND SURROUNDING AREA OF DREDGING OPERATIONS IN MARLETTE LAKE WILL BE ENCLOSED BY A TURBIDITY CURTAIN TO MITIGATE INCIDENTAL SEDIMENT TRANSPORT OUTSIDE OF THE WORK AREA.
20. SPOILS SHALL BE TRANSPORTED TO AN UPLANDS AREA ABOVE THE OHWM AND BACKSHORE ZONES. SPOILS MAY BE TEMPORARILY STOCKPILED PRIOR TO OFF-HAULING FROM THE INTAKE SITE.



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8/28/26

NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURES

CIVIL IMPROVEMENT PLANS

BMP PLAN - EAST SHORE

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

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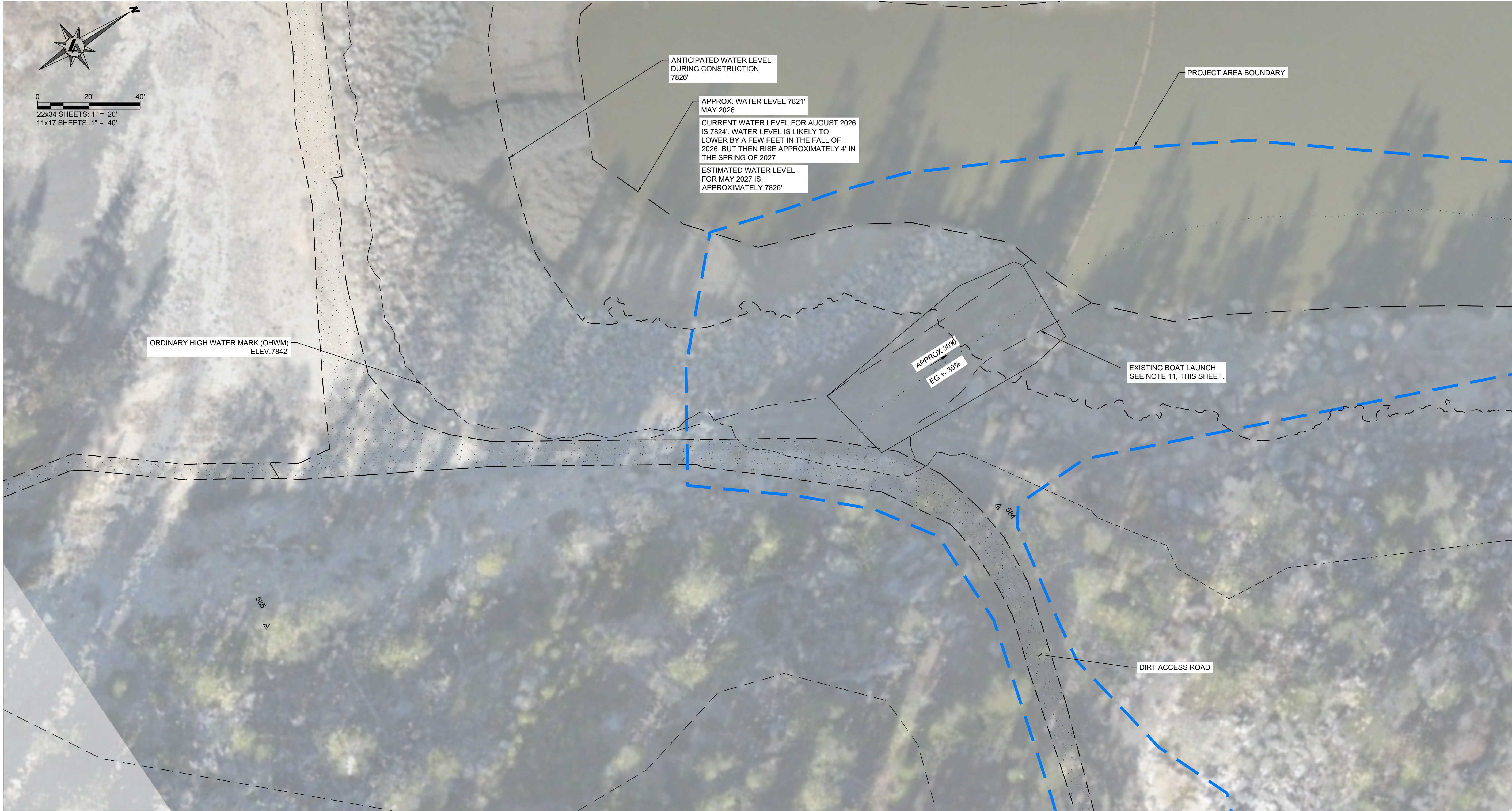
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JOB NO.: 10217.002

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GENERAL BMP NOTES

- ALL TREES AND NATURAL VEGETATION TO REMAIN ON THE SITE SHALL BE PROTECTED.
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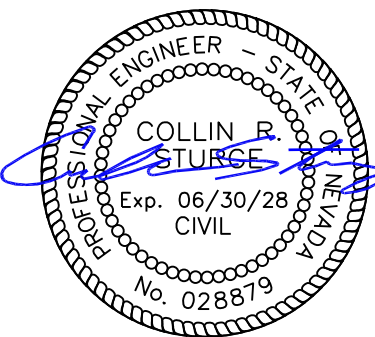
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NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT PLANS
BMP PLAN - WEST SHORE

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

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AUGUST 2026

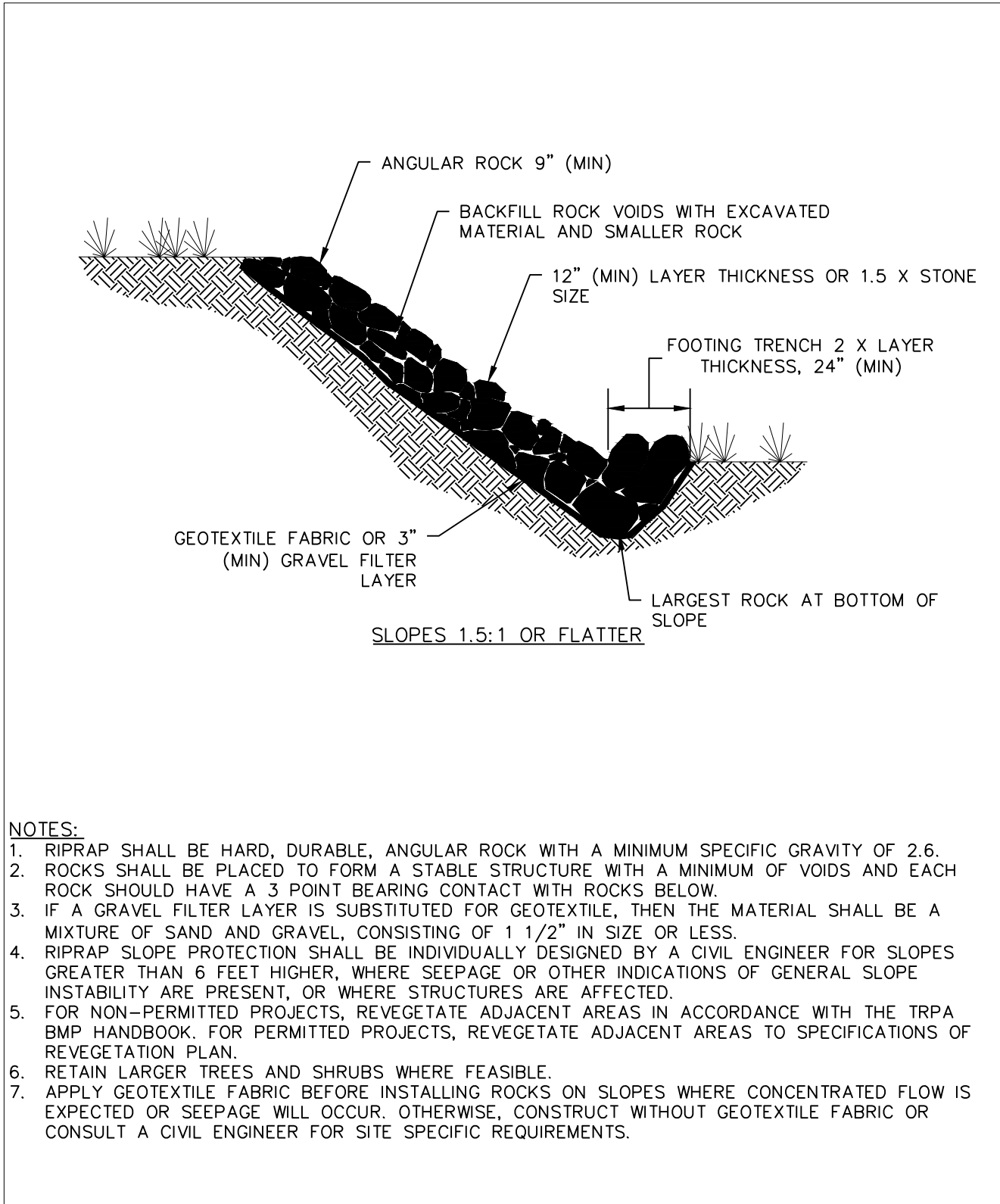
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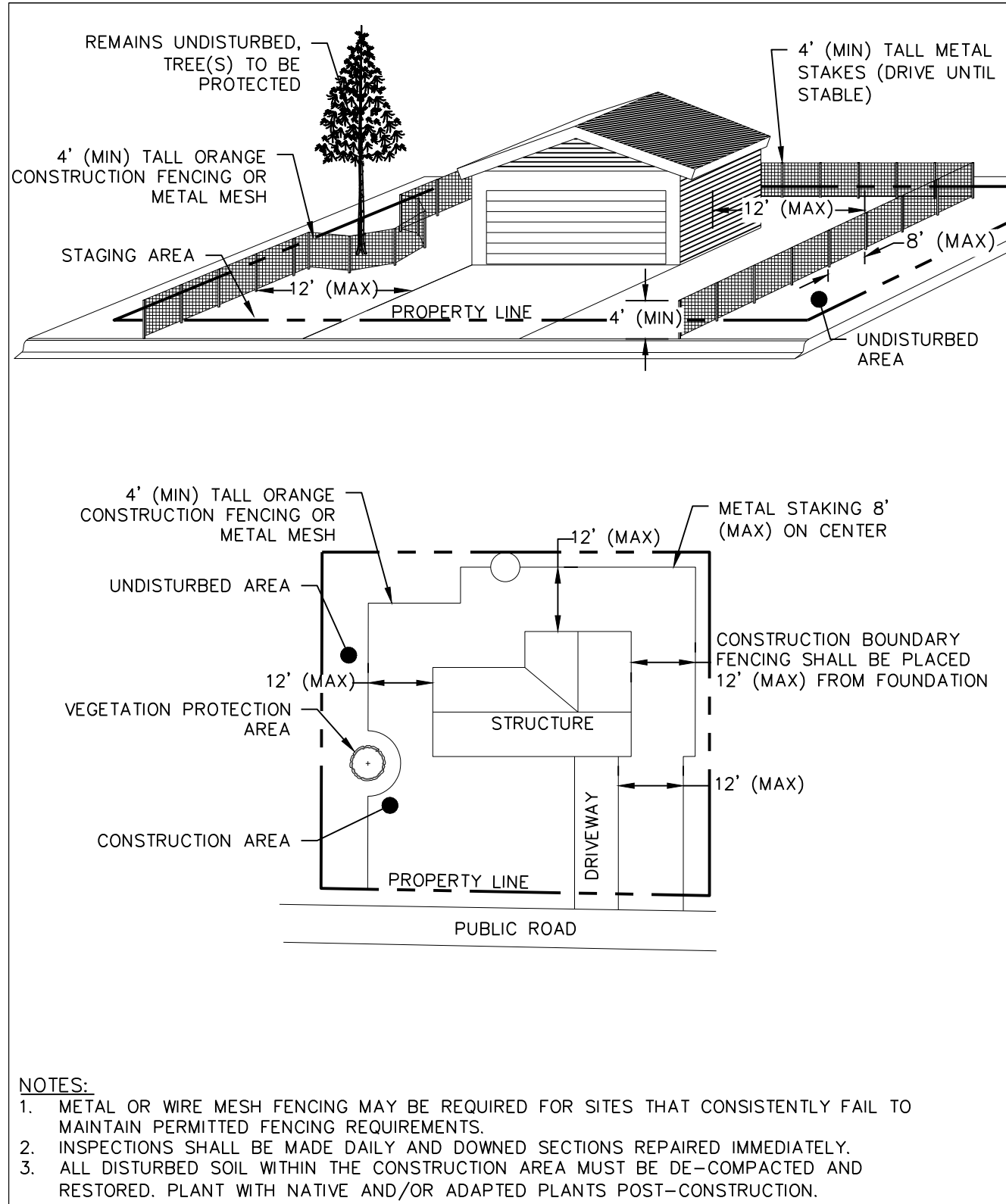
RIPRAP SLOPE PROTECTION

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BMP-206
JUNE 2023

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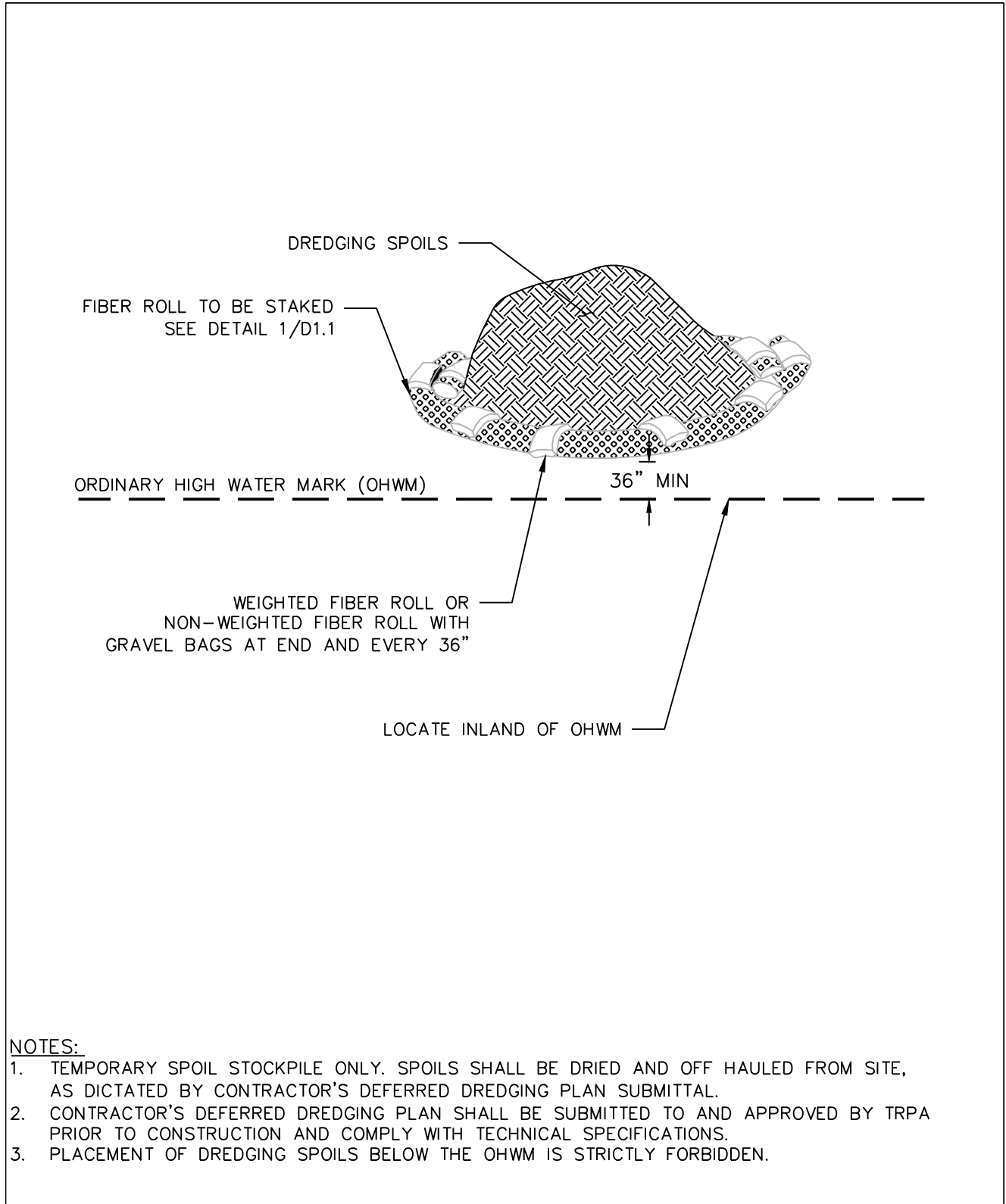
TEMPORARY BOUNDARY CONSTRUCTION FENCING

TAHOE REGIONAL PLANNING AGENCY

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BMP-501
JUNE 2023

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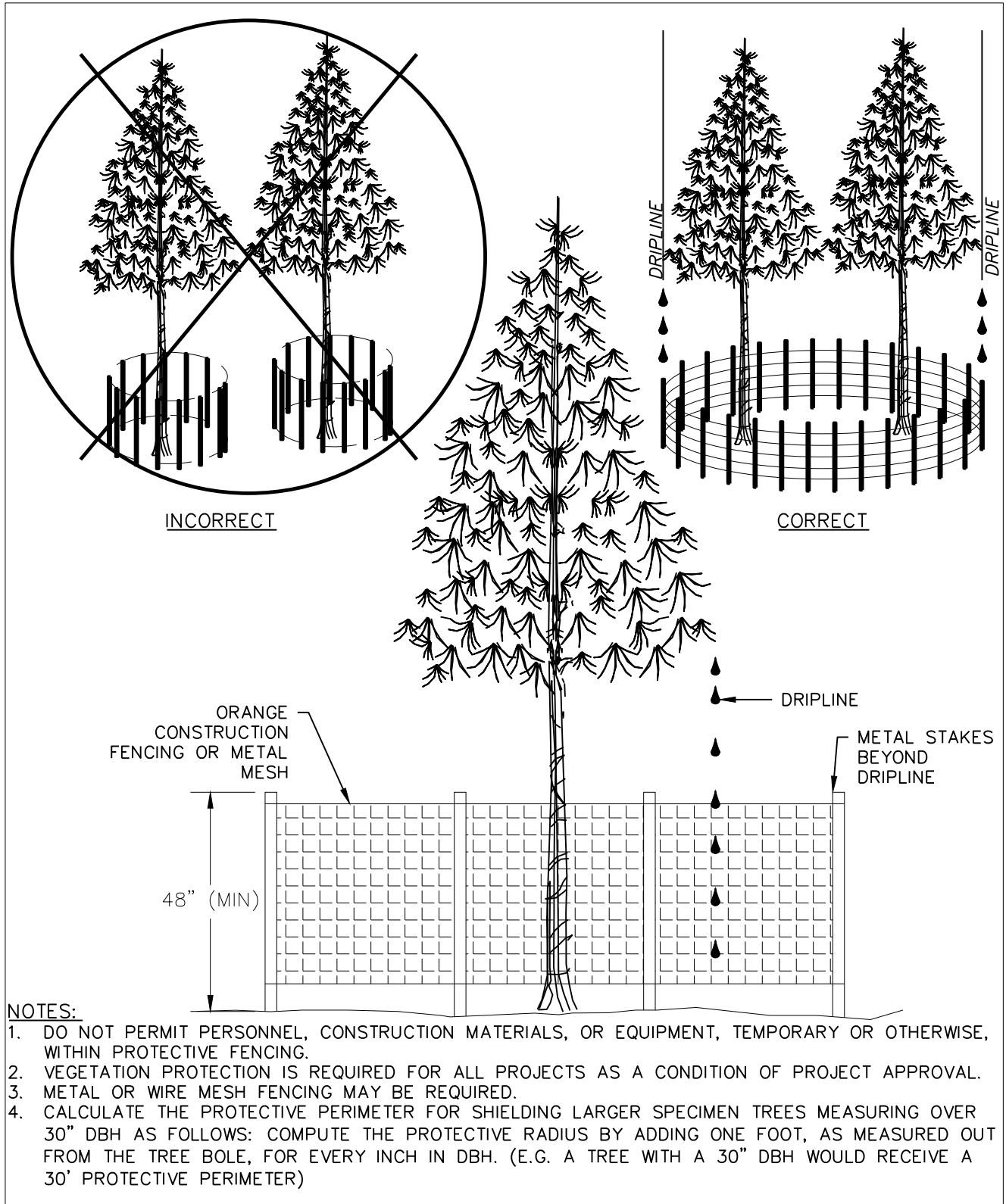
DREDGING SPOILS PLACEMENT

TAHOE REGIONAL PLANNING AGENCY

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BMP-507
JUNE 2023

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N.T.S.



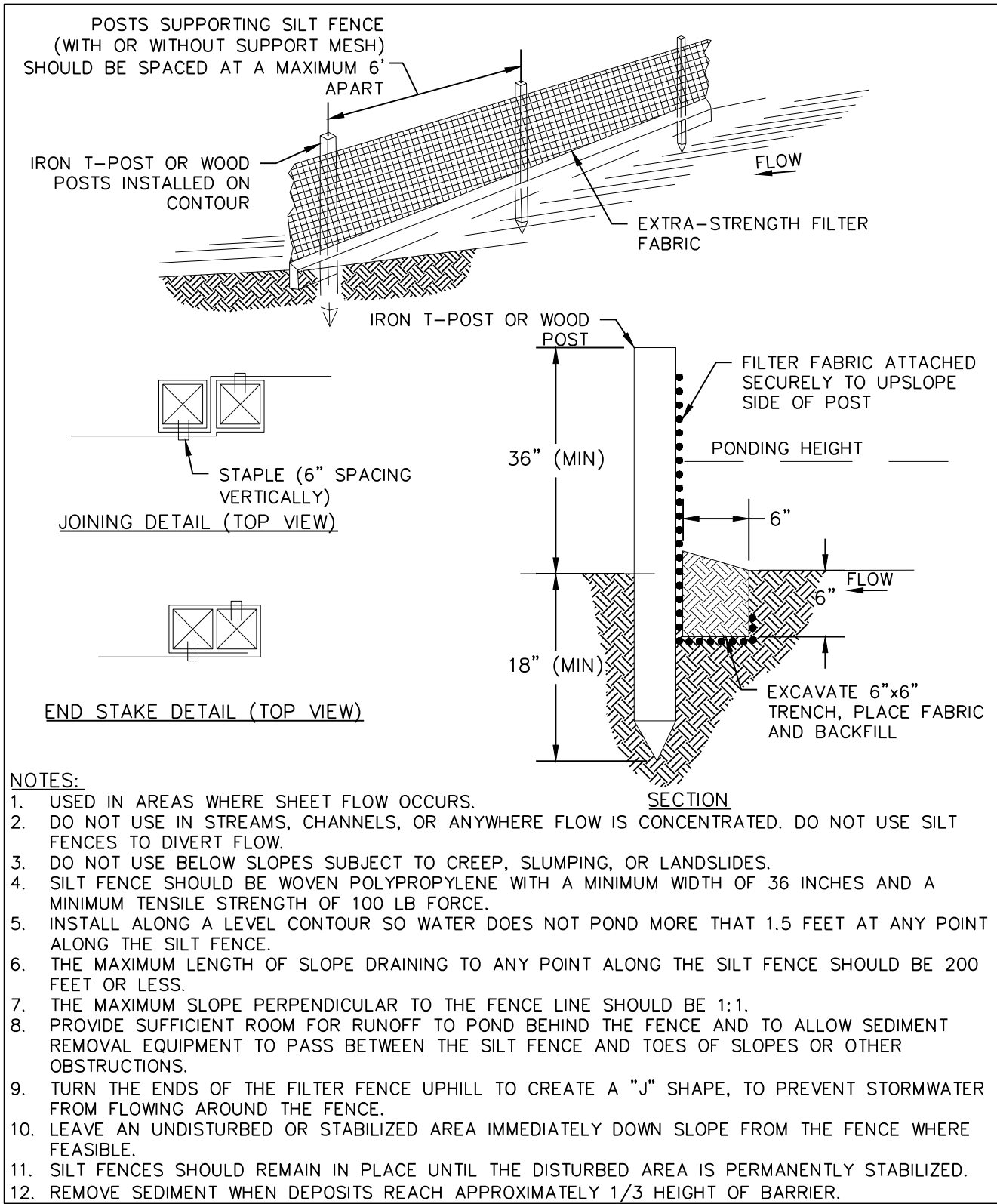
VEGETATION PROTECTION

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JUNE 2023

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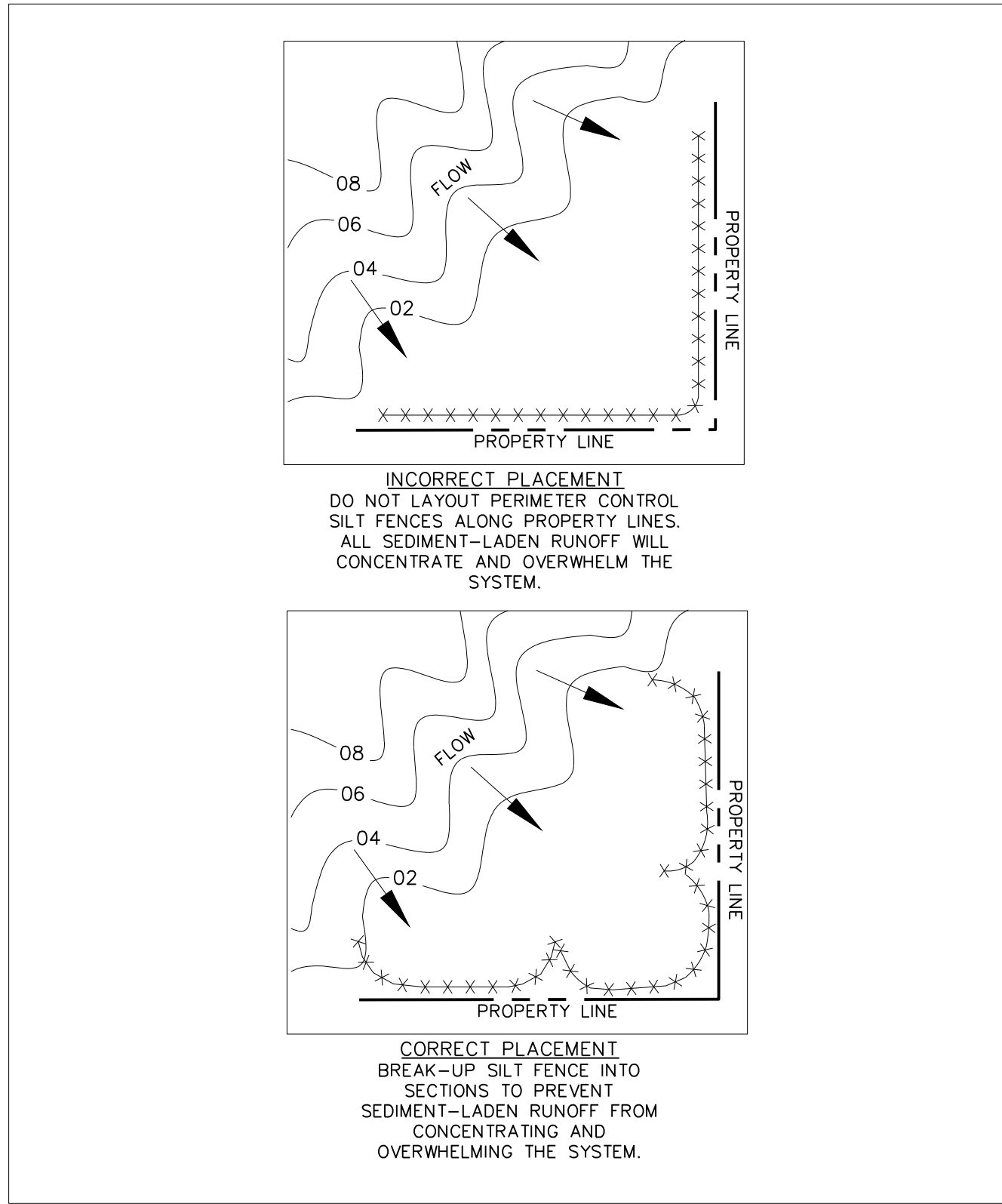
SILT FENCE

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JUNE 2023

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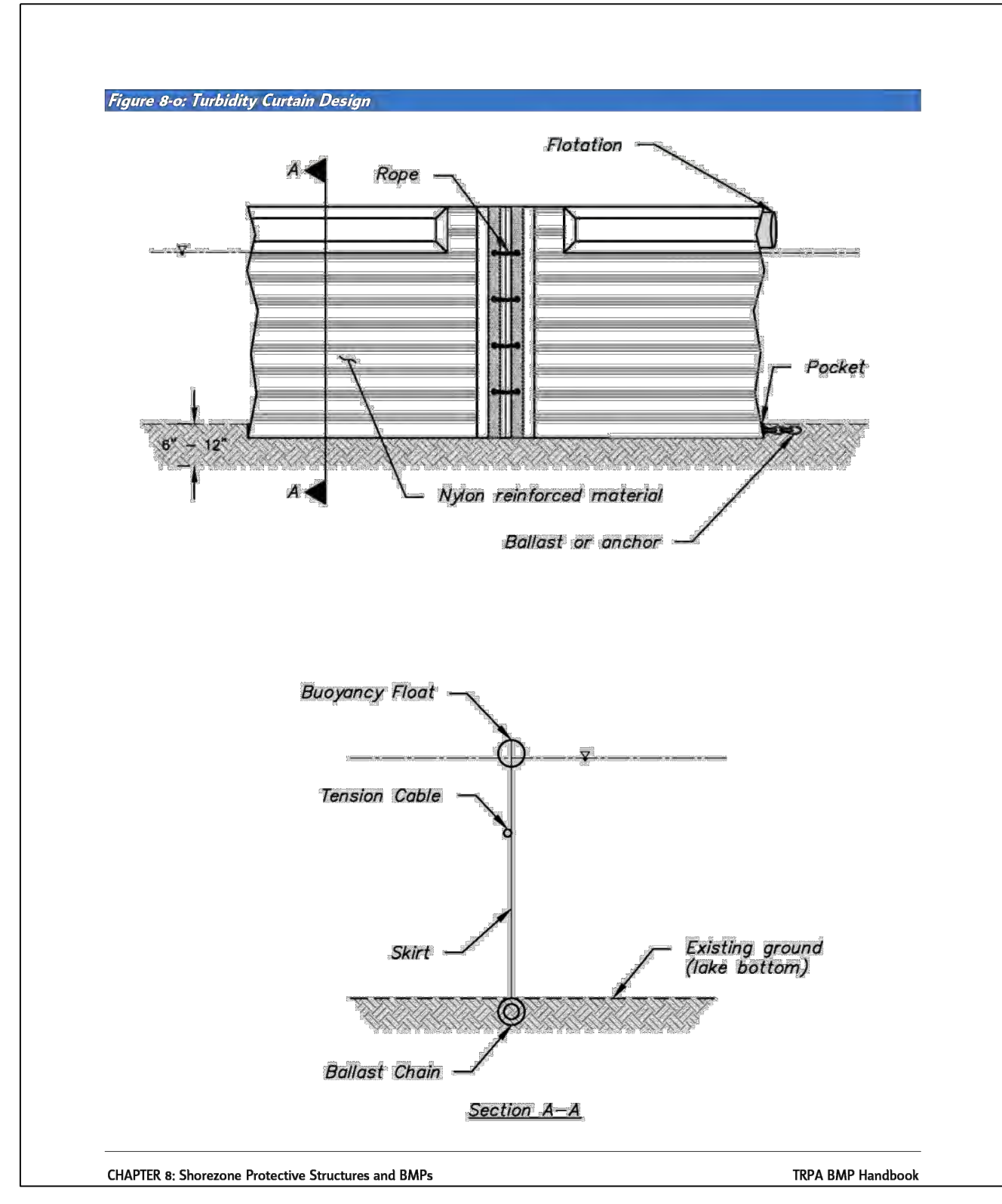
TURBIDITY CURTAINS

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JUNE 2023

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TURBIDITY CURTAINS

TAHOE REGIONAL PLANNING AGENCY

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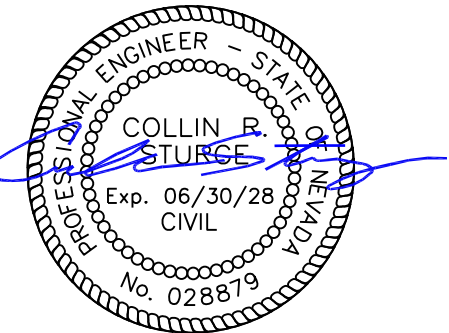
MAY 2014

7
D1.0
N.T.S.



9222 PROTOTYPE DRIVE
RENO, NV 89521
TEL: 775.827.6111
WWW.LUMOSINC.COM
INFO@LUMOSINC.COM

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8/28/26

NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT DETAILS
TRPA BMP DETAILS

WASHOE COUNTY

REV	DATE	DESCRIPTION

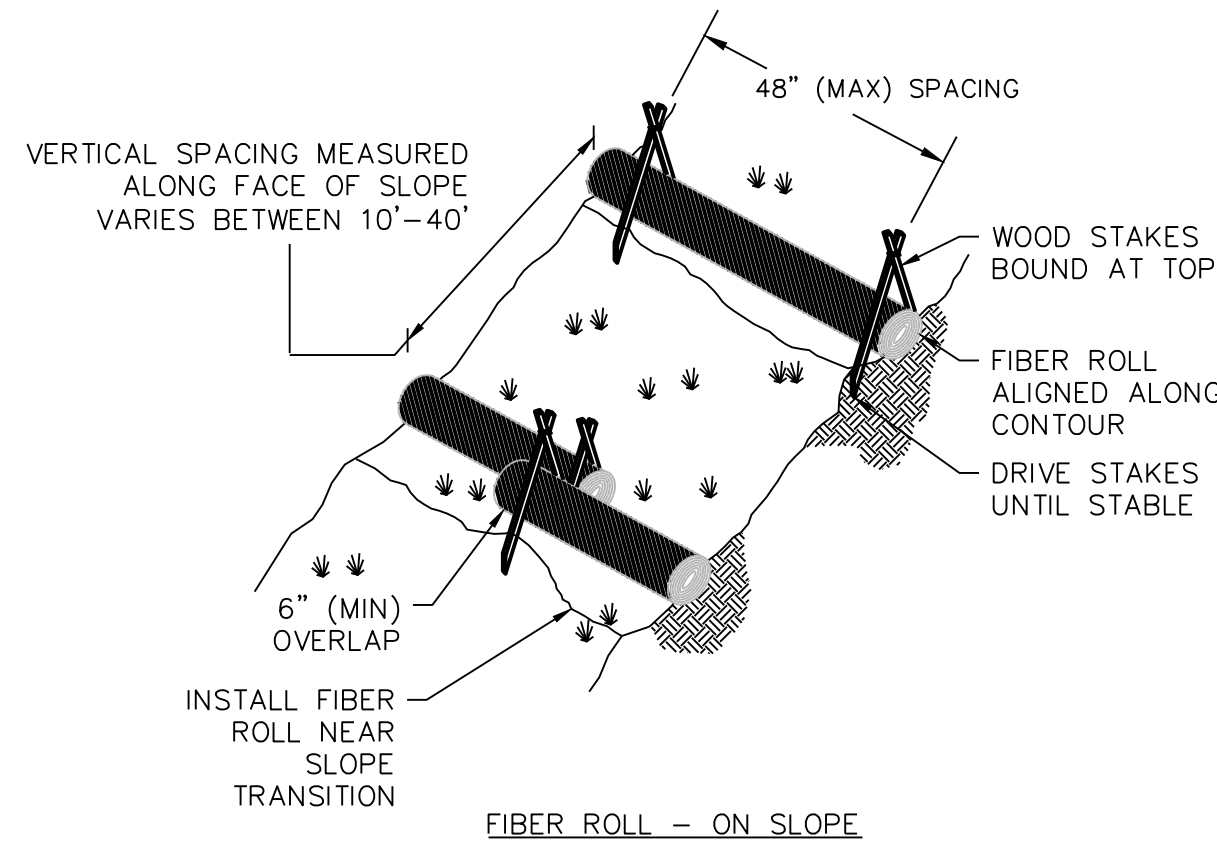
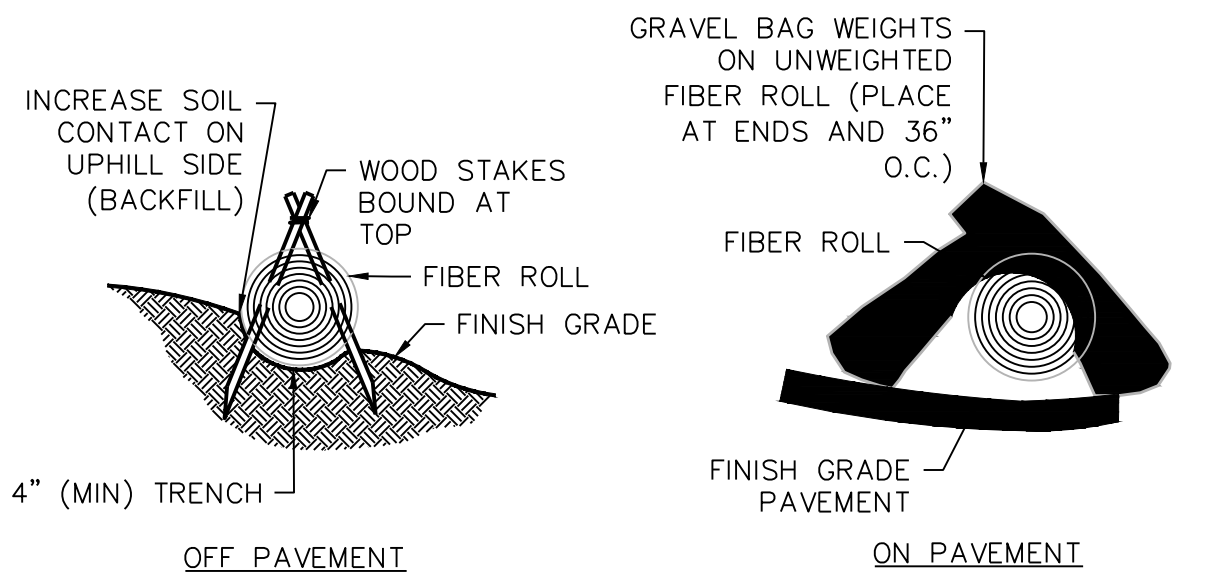
PERMIT SET
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AUGUST 2026

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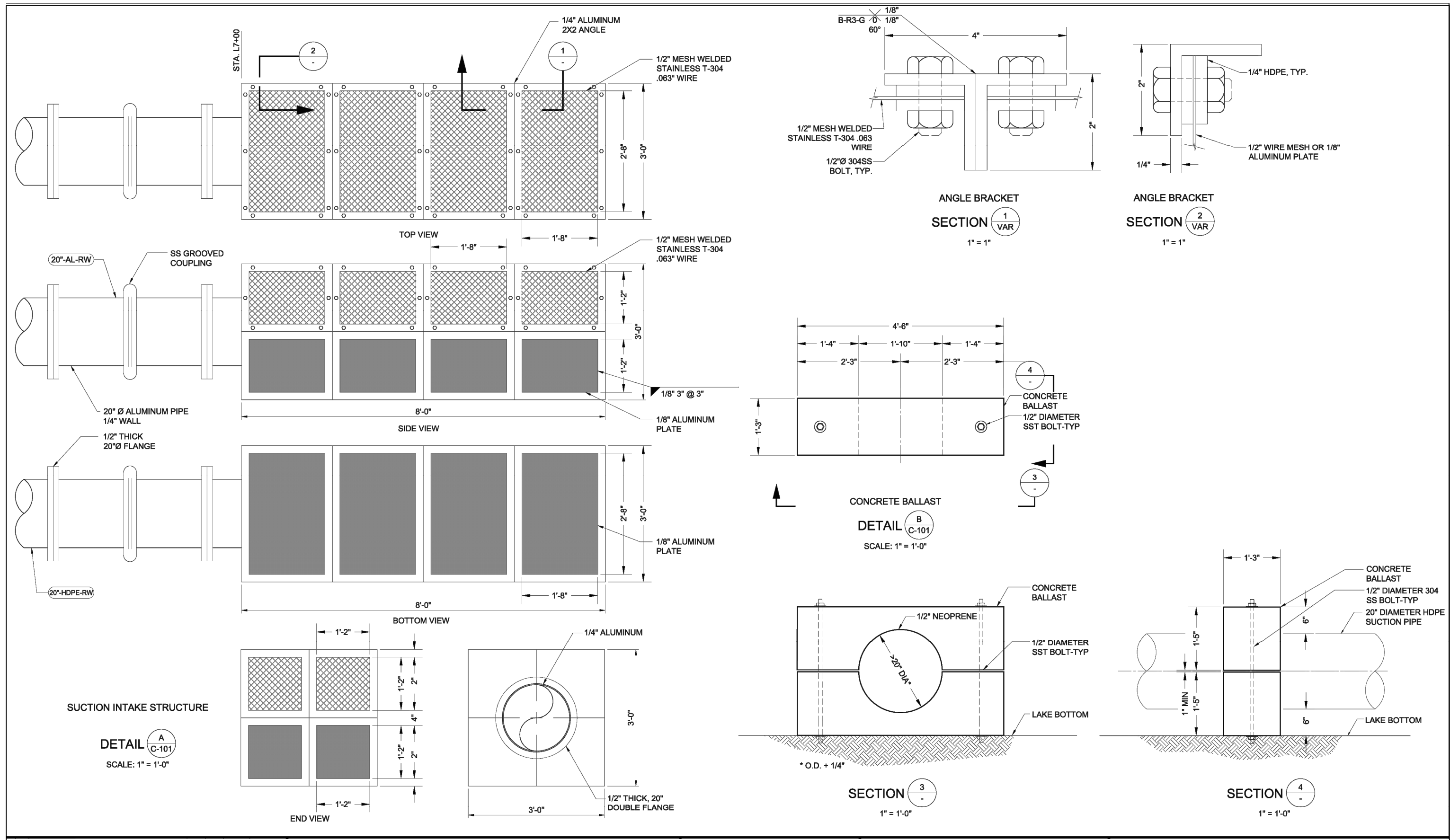
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DRAWN BY: AAM
DESIGNED BY: DN/CE
CHECKED BY: CE
JOB NO.: 10217.002



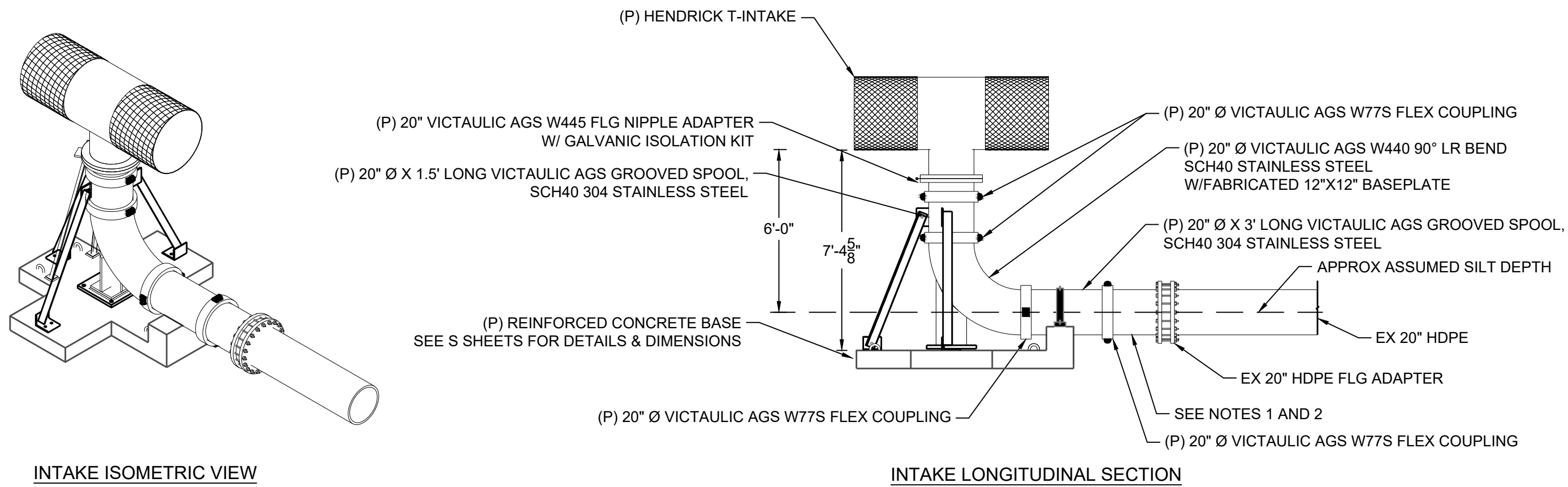
FIBER ROLLS
N.T.S.

1
D1.1



EXISTING INTAKE STRUCTURE
N.T.S.

2
D1.1



- NOTES:
- THE MATERIAL FOR THE METALLIC PIPE INTERCONNECTING THE EXISTING INTAKE ASSEMBLY TO THE HDPE SUCTION PIPE FLANGE IS UNKNOWN. IT IS ASSUMED THAT THE EXISTING GROOVED COUPLING AT THE INTERCONNECTION IS VICTAULIC; HOWEVER, PRIOR TO ORDERING PARTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DIVE AND VERIFY EXISTING SUBMERSED PIPE SIZING, PIPE MATERIAL, MATERIAL WHETHER THE EXISTING COUPLING IS A VICTAULIC TYPE.
 - IF THE CONTRACTOR DETERMINES THAT THE EXISTING INTERCONNECTION PIPING IS STAINLESS STEEL WITH A VICTAULIC COUPLING, THE CONTRACTOR MAY UTILIZE THE EXISTING STAINLESS STEEL PIPE GROOVED x FLG SEGMENT FOR CONNECTION TO THE NEW INTAKE USING A NEW VICTAULIC W77S COUPLING. OTHERWISE, THE CONTRACTOR SHALL REPLACE ALL EXISTING METALLIC PIPE WITH STAINLESS STEEL PIPE AND SHALL CONNECT DIRECTLY TO THE EXISTING HDPE FLANGE CONNECTION.

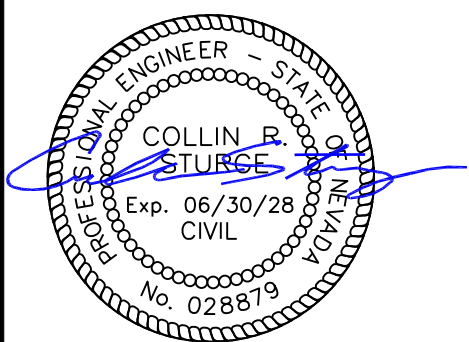
PROPOSED INTAKE STRUCTURE
N.T.S.

3
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8/28/26

NEVADA STATE PUBLIC WORKS DIVISION
MARLETTE LAKE INTAKE STRUCTURES
CIVIL IMPROVEMENT DETAILS
CIVIL DETAILS
NEVADA
WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 2026

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DRAWN BY: AAM
DESIGNED BY: DN/CE
CHECKED BY: CE
JOB NO.: 10217.002

[illegible]

GENERAL STRUCTURAL NOTES

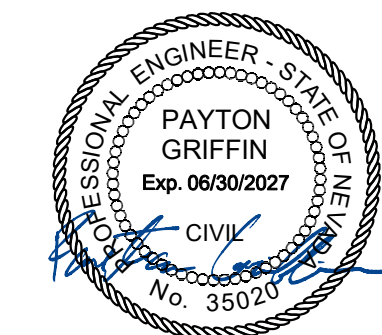
STRUCTURAL NOTES TO BE
PROVIDED AT 90% SUBMITTAL



950 SANDHILL ROAD, SUITE 100
RENO, NV 89521
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NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURE

CIVIL IMPROVEMENT PLANS

STRUCTURAL NOTES

WASHOE COUNTY

NEVADA

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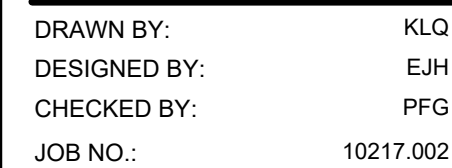
PERMIT SET
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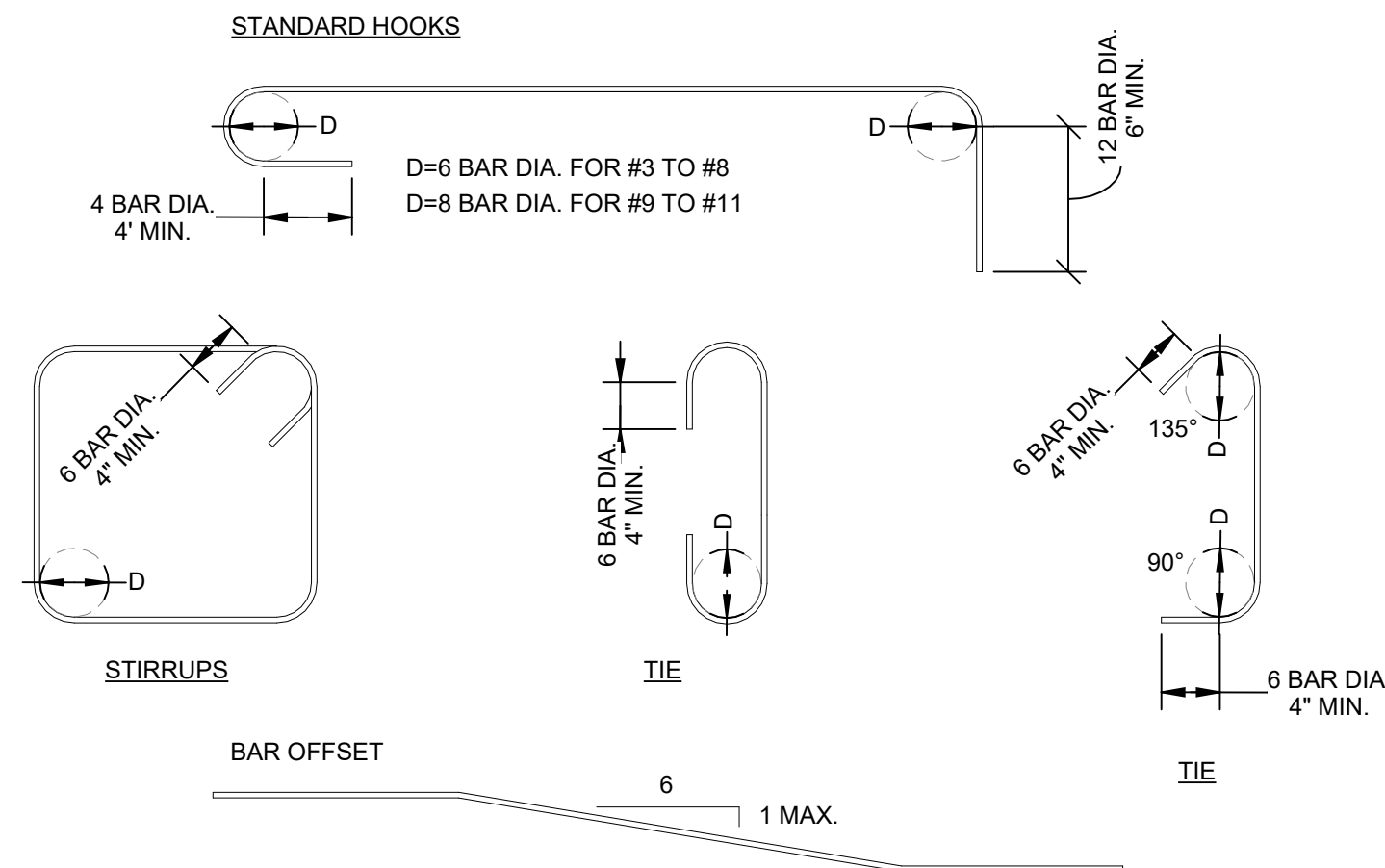
BAR IS 1 INCH ON
ORIGINAL DRAWING

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DRAWN BY: KLO
DESIGNED BY: EJE
CHECKED BY: PFG
JOB NO.: 10217.00





1 REINFORCING STEEL DATA

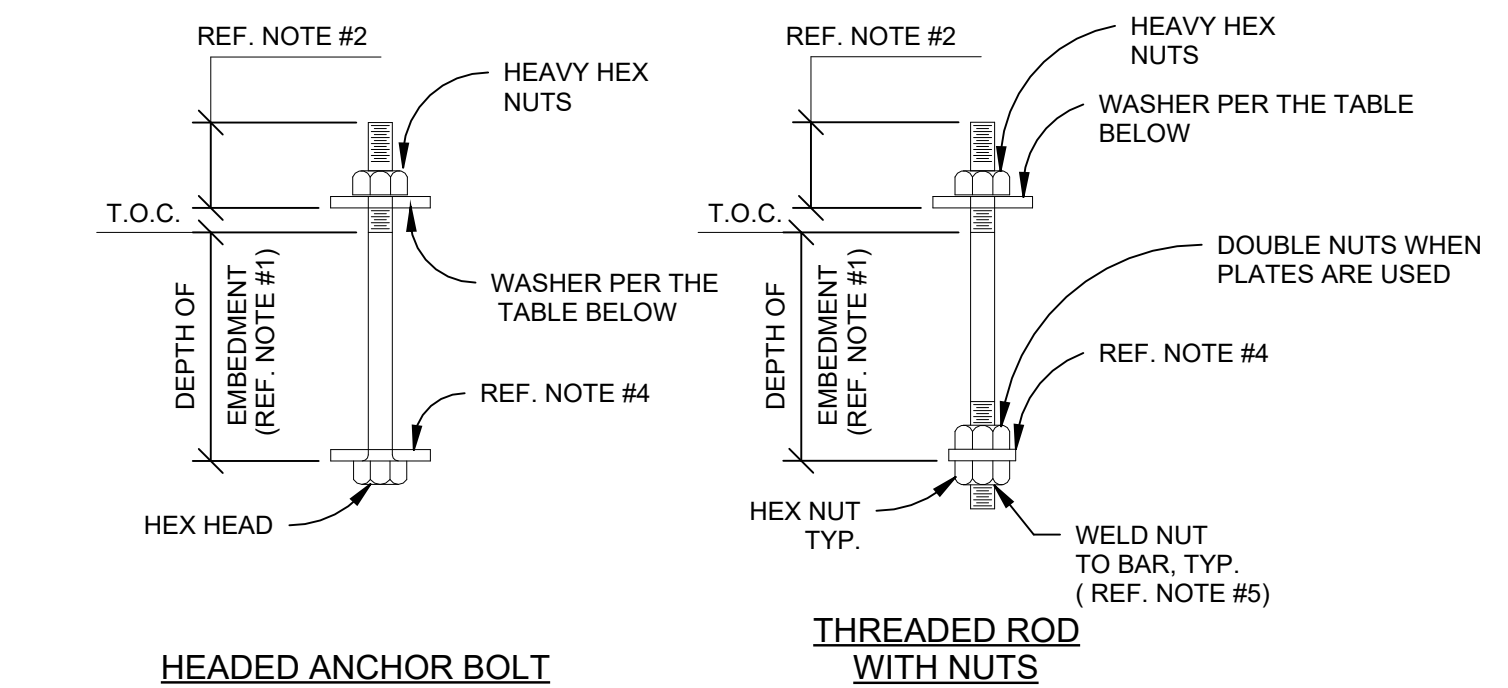
SCALE: 6" = 1'-0"

BAR SIZE	REINFORCING BAR LAP SPlice LENGTHS (INCHES)				
	COMPRESSION STRENGTH, f_c				
	2000 PSI	3500 PSI	4000 PSI	4500 PSI	5000 PSI
#3	32	20	19	18	17
#4	29	27	21	24	22
#5	36	33	31	29	28
#6	43	40	37	35	33
#7	63	58	54	51	49
#8	71	66	62	59	56
#9	81	75	70	66	63
#10	94	84	79	74	71
#11	100	93	87	82	78

1. CLEAR SPACING BETWEEN BARS SHALL BE AT LEAST 2 BAR DIAMETERS.
2. CLEAR COVER OVER BARS SHALL BE AT LEAST 1 BAR DIAMETER.
3. THE SPICE LENGTH OF BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE BELOW THE BAR SHALL BE INCREASED BY 30%.
4. THESE SPICE LENGTHS DO NOT APPLY FOR EPOXY-COATED REINFORCEMENT. BARS IN LIGHTWEIGHT CONCRETE OR BUNDLED BARS.
5. BARS LARGER THAN #11 SHALL NOT BE LAP-SPLICED.

CONCRETE REINFORCING LAP SPLICE REQUIREMENTS

SCALE: 12" = 1'-0"



- | NOTES: | R.T.S. | R.T.S. |
|--------|--|--------|
| 1. | DEPTH OF EMBEDMENT SHALL BE BELOW THE TOP OF CONCRETE OR THE TOP OF ANY CONSTRUCTION JOINTS. | |
| 2. | BOLT PROJECTION SHALL BE SUFFICIENT TO ALLOW INSTALLATION OF FULLY ENGAGED NUTS AND WASHERS. SEE SPECIFIC DETAILS FOR OTHER REQUIREMENTS. | |
| 3. | UNLESS SPECIFICALLY NOTED OTHERWISE, EITHER OF THE ANCHOR BOLTS SHOWN CAN BE USED. | |
| 4. | WHERE NOTED IN THE STRUCTURAL DETAILS, STEEL PLATES SHALL BE ADDED. PLATE SIZE SHALL BE AS SHOWN IN THE SPECIFIC DETAIL. | |
| 5. | IN LIEU OF TACK WELDING, THE NUT(S) CAN BE SECURED TO THE ROD BY PUNCHING THE THREADS AT 2 LOCATION ABOVE AND BELOW THE NUT(S), 4 LOCATIONS TOTAL. | |

ANCHOR BOLT DETAIL

SCALE: 12" = 1'-0"

LIFTING LUG DETAIL

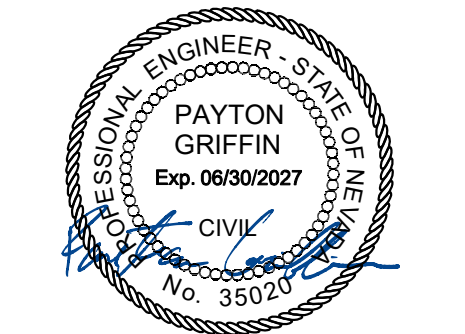
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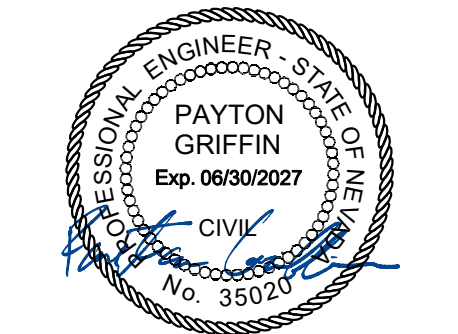
ANGLE BRACE BOLTED CONNNETION DETAIL

SCALE: 3/4" = 1'-0"

ANGLE BRACE WELDED LUG/PIPE DETAIL

SCALE: 3/4" = 1'-0"





NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURE
CIVIL IMPROVEMENT PLANS
STRUCTURAL PLANS

NEVADA
WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

PERMIT SET
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AUGUST 2026

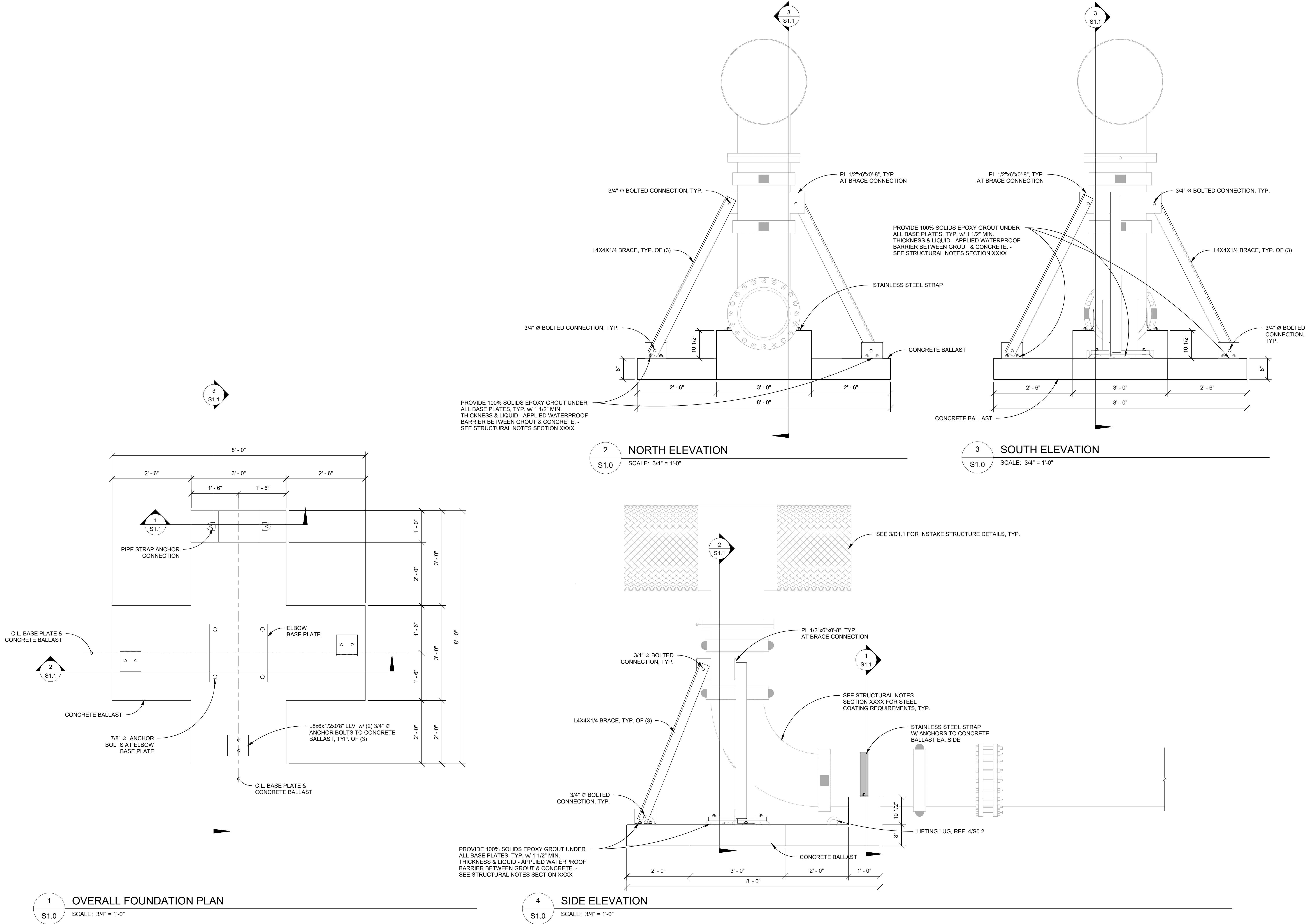
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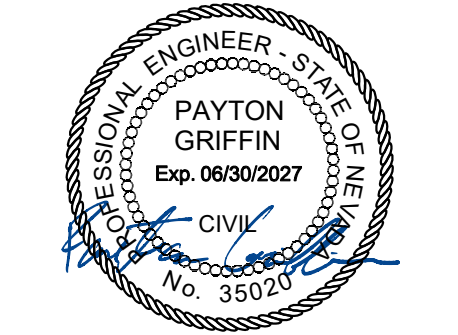
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S1.0

DRAWN BY: KJQ
DESIGNED BY: EJJ
CHECKED BY: PFG
JOB NO.: 10217.002





NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURE
CIVIL IMPROVEMENT PLANS
STRUCTURAL SECTIONS

NEVADA

WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

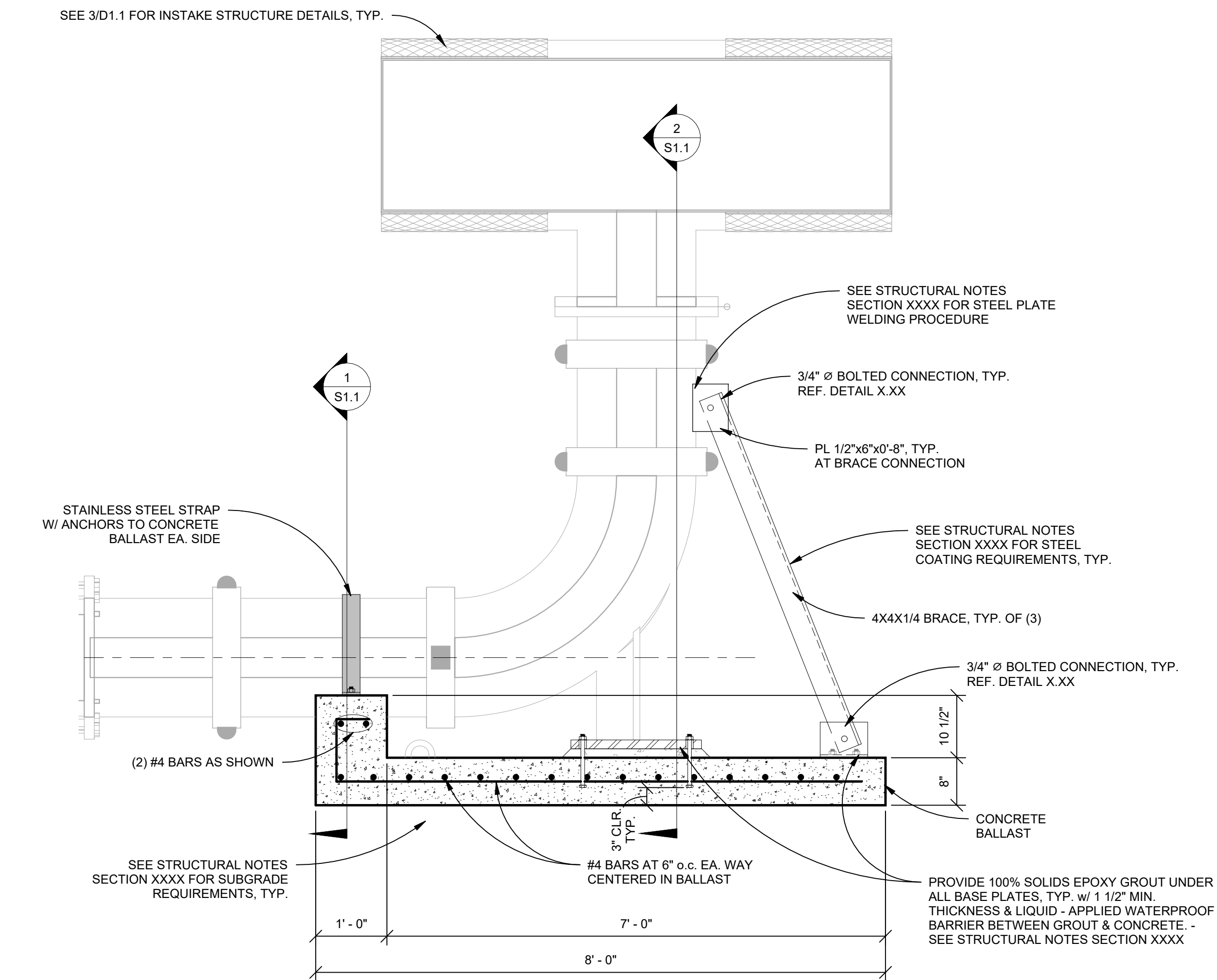
PERMIT SET
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AUGUST 2026

BAR IS 1 INCH ON ORIGINAL DRAWING
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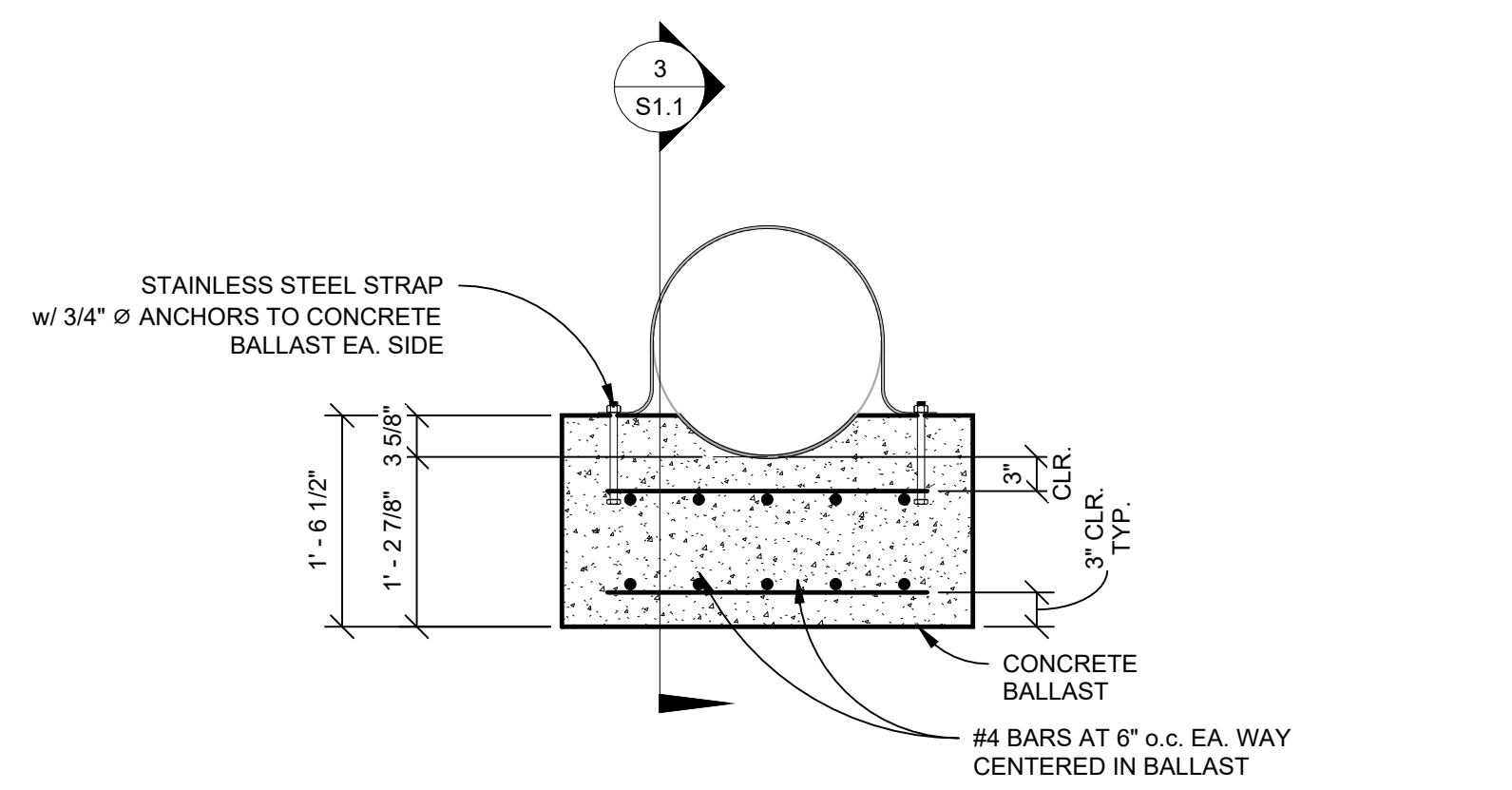
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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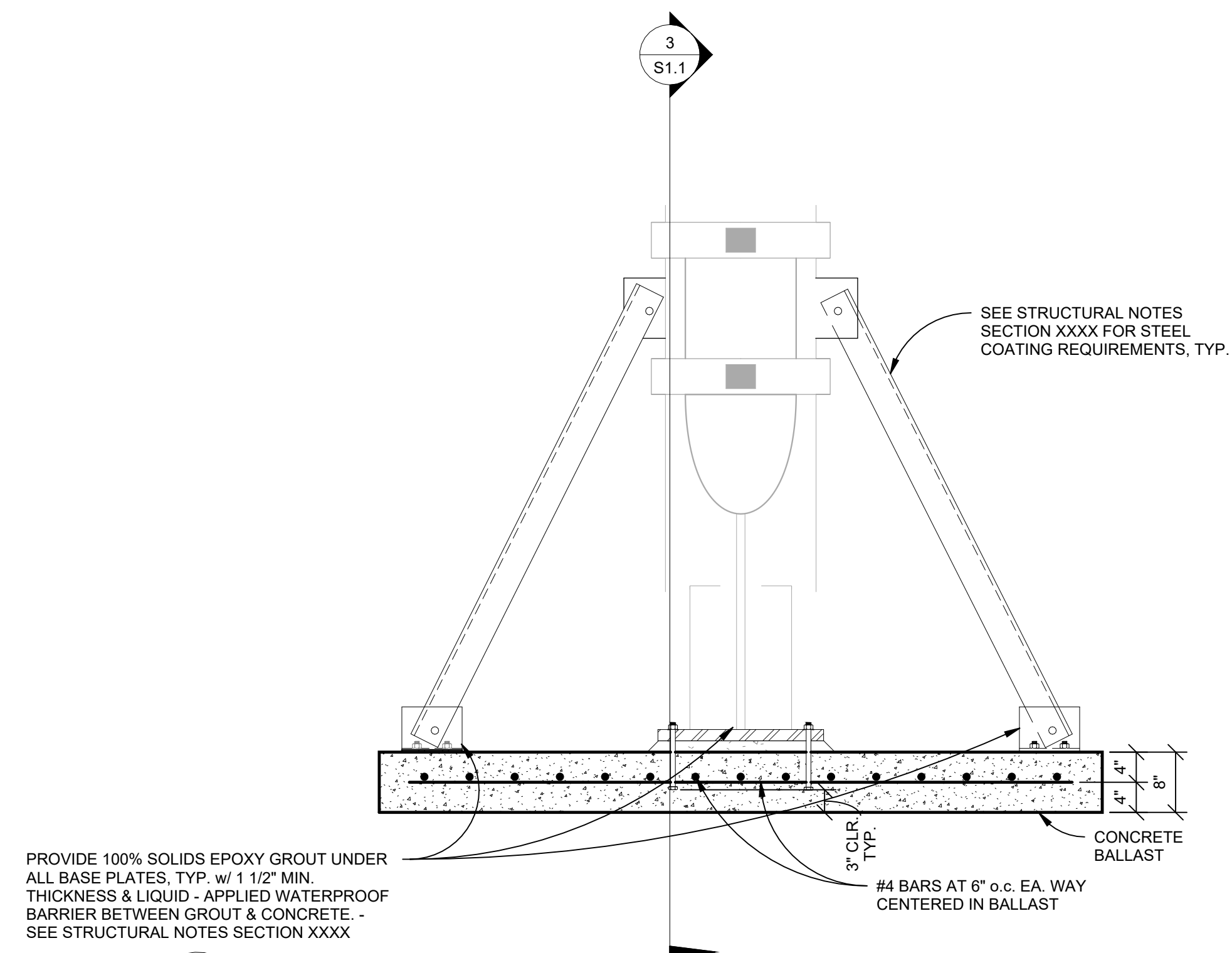
DRAWN BY: KIJ
DESIGNED BY: EIJ
CHECKED BY: PFG
JOB NO.: 10217.002



3
S1.1
STRUCTURAL SECTION
SCALE: 3/4" = 1'-0"



1
S1.1
STRUCTURAL SECTION
SCALE: 3/4" = 1'-0"



2
S1.1
STRUCTURAL SECTION
SCALE: 3/4" = 1'-0"

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NEVADA STATE PUBLIC WORKS DIVISION

MARLETTE LAKE INTAKE STRUCTURE
CIVIL IMPROVEMENT PLANS
ISOMETRIC VIEWS

NEVADA
WASHOE COUNTY

REV	DATE	DESCRIPTION	BY

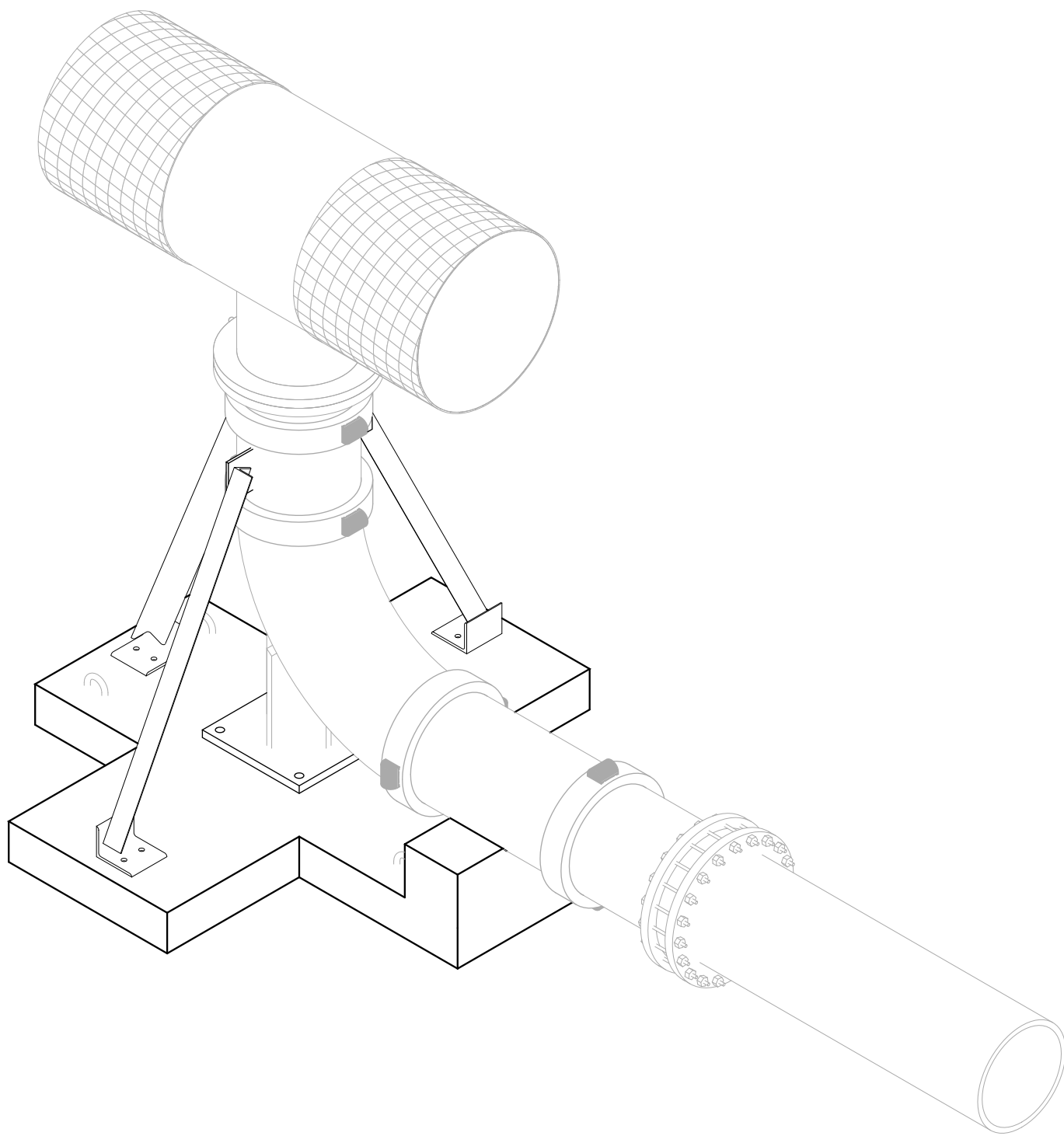
BAR IS 1 INCH ON ORIGINAL DRAWING
0 1

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

S2.0

DRAWN BY: KLO
DESIGNED BY: EIJ
CHECKED BY: PFG
JOB NO.: 10217.002

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 2026

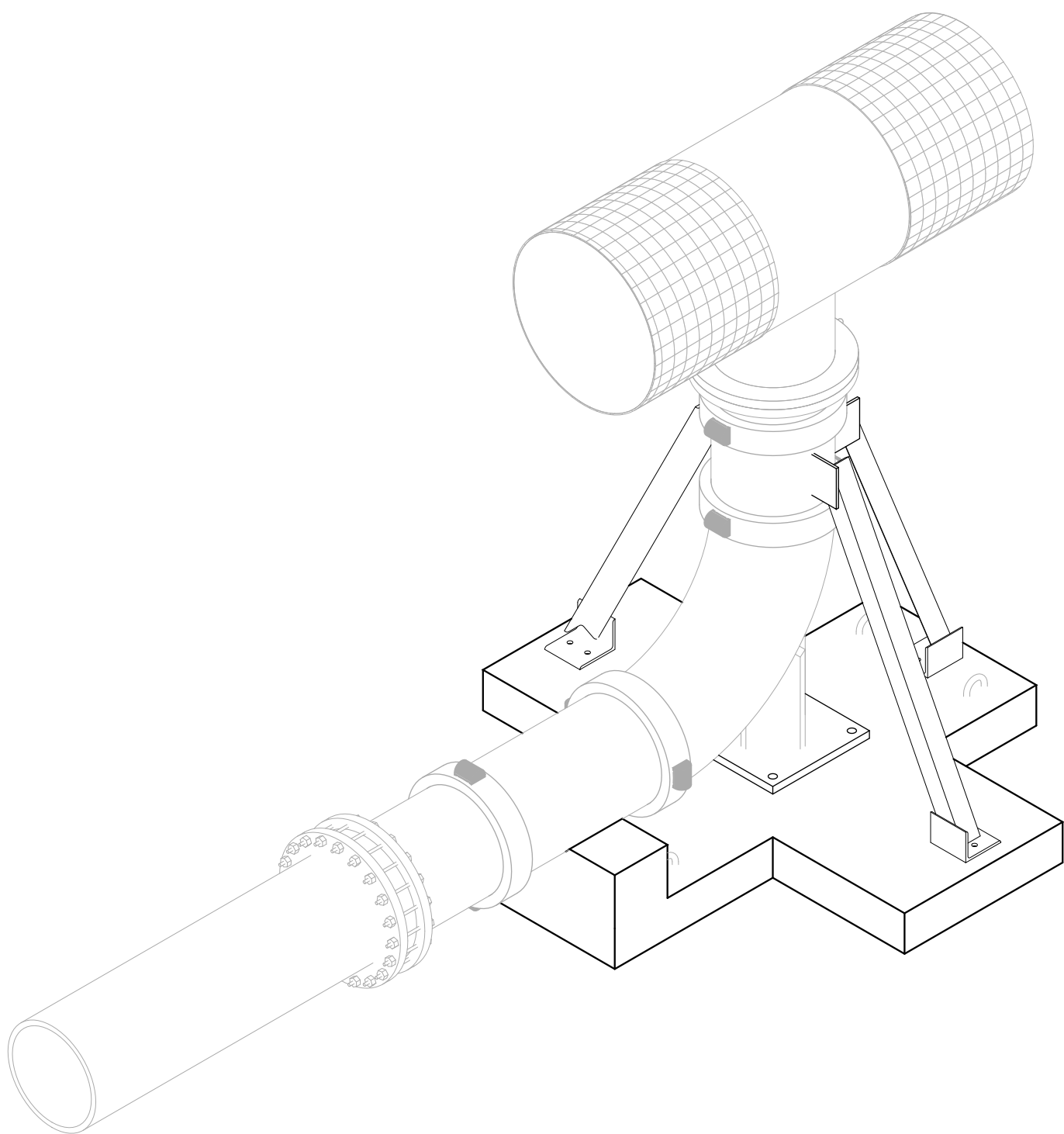


1

ISOMETRIC N-E

S2.0

SCALE:



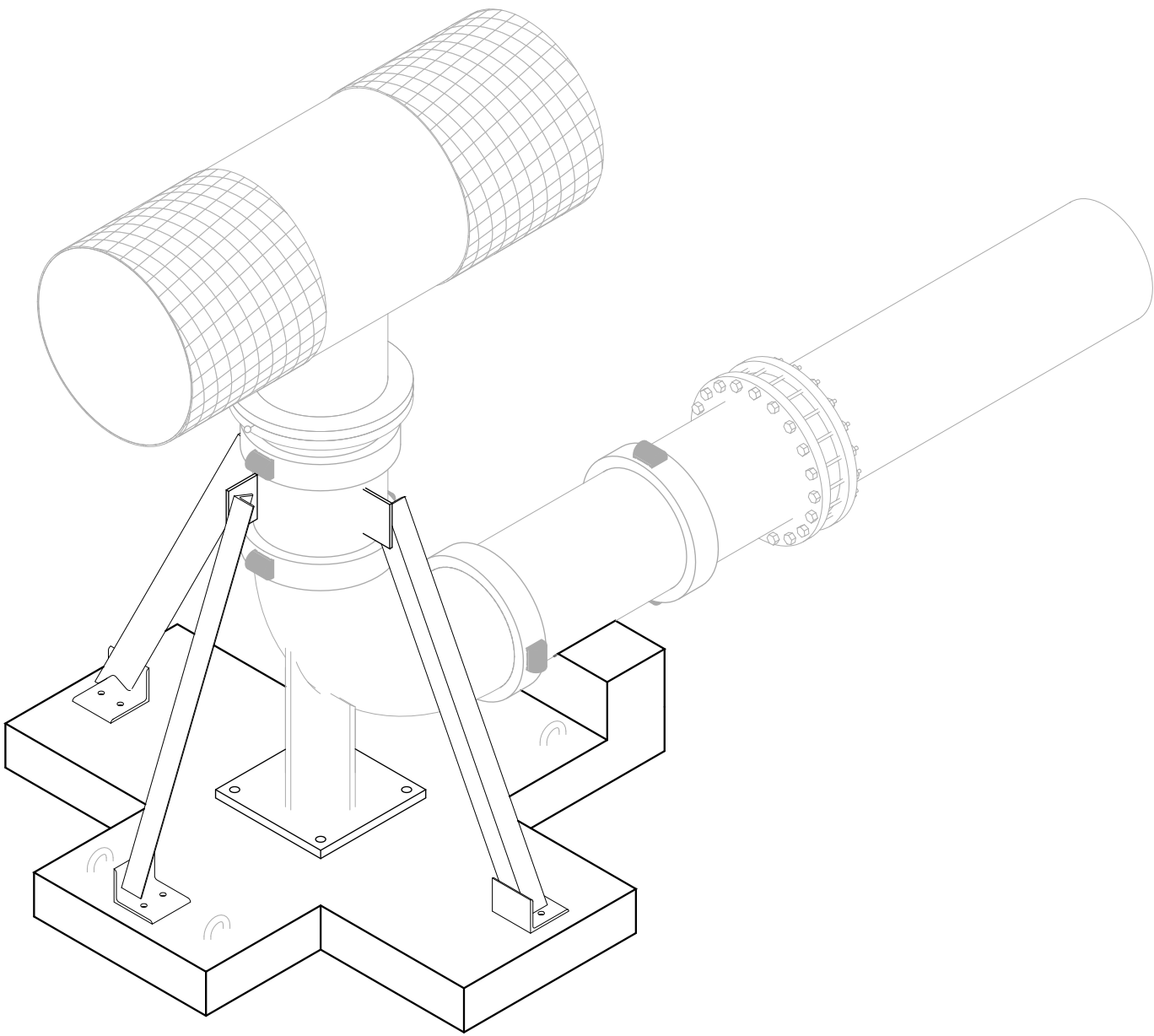
2

ISOMETRIC N-W

S2.0

SCALE:

3D VIEWS ARE A SCHEMATIC REPRESENTATION FOR REFERENCE ONLY

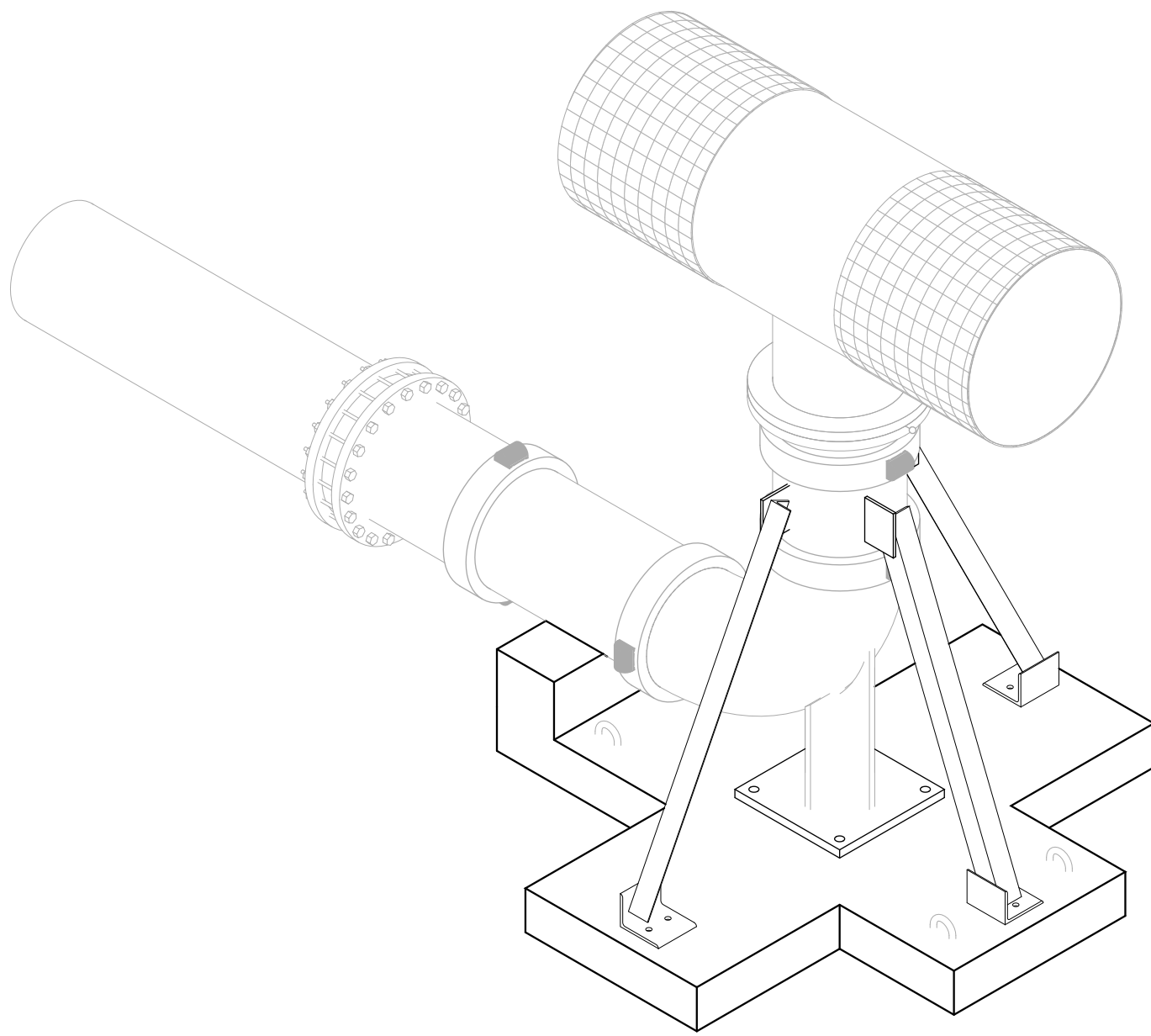


3

ISOMETRIC S-E

S2.0

SCALE:



4

ISOMETRIC S-W

S2.0

SCALE:

Attachment 5

Nationwide Permit

Preconstruction Notification

U.S. Army Corps of Engineers (USACE)
NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)

33 CFR 330. The proponent agency is CECW-CO-R.

*Form Approved -
OMB No. 0710-0003
Expires: 02-28-2022*

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.

Principal Purpose Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.

Routine Uses This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.

Disclosure Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see *sample drawings and/or instructions*) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
--------------------	----------------------	------------------	------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Jason Middle - D Last - Crosby Company - Nevada Public Works Division Company Title - E-mail Address - j.crosby@admin.nv.gov	8. AUTHORIZED AGENT'S NAME AND TITLE (<i>agent is not required</i>) First - JoAnne Middle - R Last - Michael Company - Resource Concepts, Inc. E-mail Address - joanne@rci-nv.com
6. APPLICANT'S ADDRESS Address- 515 E. Musser, Suite 102 City - Carson City State - NV Zip - 89701 Country - USA	9. AGENT'S ADDRESS Address- 340 North Minnesota Street City - Carson City State - NV Zip - 89703 Country - USA
7. APPLICANT'S PHONE NOs. with AREA CODE a. Residence b. Business c. Fax d. Mobile 775-684-1813	10. AGENT'S PHONE NOs. with AREA CODE a. Residence b. Business c. Fax d. Mobile 775-883-1600

STATEMENT OF AUTHORIZATION

11. I hereby authorize, JoAnne Michael to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

SIGNATURE OF APPLICANT

DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME or TITLE (*see instructions*)
Marlette Lake Water Intake Structure Replacement Project

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

13. NAME OF WATERBODY, IF KNOWN (if applicable)

Marlette Lake

14. PROPOSED ACTIVITY STREET ADDRESS (if applicable)

15. LOCATION OF PROPOSED ACTIVITY (see instructions)

Latitude °N Longitude °W
39.173059 -119.906535

City:

State: Zip:

NV 89449

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)

State Tax Parcel ID

Municipality

Washoe County, Nevada

Section

Township

Range

1 and 2

14 North

18 East

17. DIRECTIONS TO THE SITE

From Reno take I-580 south for approximately 37 miles to continue straight onto US-50/Hwy 50 west bound. In approximately ten miles, turn right onto NV 28; in less than one mile turn right into the Spooner Lake State Park. Stay left through the parking area and make a right onto Spooner Lake Trail when the pavement ends. Turn left onto North Canyon Road, in 4.5 miles turn right onto Hobart Road, then turn left onto Laxalt Road. Continue along Laxalt Road approximately 1.2 miles to the lake's edge and location of the MLWS pipeline.

18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE

~~NWP 3 Maintenance~~

NWP 58, Utility Line Activities for Water and Other Substances

~~NWP 36 Boat Ramp, with waiver~~

19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY (see instructions)

The project proposes to replace the existing water intake structure within it's existing

20. DESCRIPTION OF PROPOSED MITIGATION MEASURES (see instructions)

See Attachment 2 - Project Description and BMPs.

21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY (Describe the reason or purpose of the project, see instructions)

The purpose of the proposed project is to upgrade the existing water system intake structure to reduce the amount of sediment uptake and buildup within the water system. Sediment in the system causes damage to the System's pump impellers, sensors, valves, transducers and pipeline. The proposed upgraded design will mitigate the current issues with sediment entering the line and damaging the system and be effective for minimizing bio-film and other accumulation on the screens.

22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY (see instructions)

Acres	Linear Feet	Cubic Yards Dredged or Discharged
0.04 acres	0	423

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.

23. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. (see instructions)

NWP 3 Maintenance; NWP 36 Boat Ramp

24. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity.

The proposed activity will NOT result in the loss of greater than 0.10 acres of wetland.

25. Is any portion of the nationwide permit activity already complete? ☐ Yes ☒ No If Yes, describe the completed work:

26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. (see instructions)
Based on the USFWS IPaC (accessed July 22, 2026) the following species have potential to occur: gray wolf (E), Sierra Nevada Red Fox (FE), CA spotted owl (PT), northwestern pond turtle (PT), Sierra Nevada yellow-legged frog (FE), Lahontan cutthroat trout (FT), Monarch butterfly (PT), and white bark pine (FT). Of these species, only Lahontan cutthroat trout have potential to occur. There are no designated critical habitat. See Attachment 5 - Federally Protected Species Potential to Occur

27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. (see instructions)
None

28. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river".
The proposed project is not located within or near a Wild and Scenic River or located near a river designated as a "study river".

29. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project? ☐ Yes ☒ No

If "yes", please provide the date your request was submitted to the Corps district:

30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (see instructions)

31. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.