

**From:** Hunt, John T - DNR  
**Sent:** Monday, August 08, 2022 9:16 AM  
**To:** Stoltz, Carrie R - DNR  
**Subject:** CM Christiansen - Asphalt and drainage notes and Drawings  
**Attachments:** plan markup 8-5-22.pdf; 4433003 Fence Lake landing 6-29-2015\_5.pdf

Carrie,  
Roland Alger from the Town of Phelps (715-545-2711) contacted me regarding CM Christiansen and the Trailhead project. They are proposing to install a erosion control measure as part of the project that was not included in the original approval letter from us. Below are details. I told him I'm no longer PM but send me things and I'd talk to you

I'll give you a call on this.  
--John

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John T. Hunt P.G.

Phone: (715) 701-9383

[john.t.hunt@wisconsin.gov](mailto:john.t.hunt@wisconsin.gov)

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**From:** Roland Alger <alger427@yahoo.com>  
**Sent:** Monday, August 8, 2022 9:05 AM  
**To:** Hunt, John T - DNR <JohnT.Hunt@wisconsin.gov>  
**Cc:** Phil Kriesel <pkriesel@msa-ps.com>; Mike Duquaine <meduquaine1@gmail.com>; Dave Selby <daselby15@gmail.com>  
**Subject:** Fw: 07558017 Asphalt and drainage notes and Drawings

**CAUTION: This email originated from outside the organization.  
Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Mr. Hunt,

Please find attached the drawings from Phil Kriesel from MSA on the erosion control measures that are proposed at the Military Creek Trailhead site. I am on the Phelps Park Commission representing the Town of Phelps and will be serving as the project oversight person for Phelps for Phase 2 of this project. We are hopeful to complete this project in September, 2022.

Because the Town of Phelps received a Letter of Liability Exemption for this site, I want to ensure that any additional measures to control erosion and direct runoff are with the approval of the WDNR. To that end, the major change is the addition of a 42" drainage basin approximately 50' from CTH E and 15' from

the bike trail. There is an 18" culvert that runs under the bike trail and collects runoff from CTH E. This runoff now settles in the low area north of where the proposed catch basin will be located and will result in icy conditions in the spring. The addition of the catch basin and an asphalt flume, together, will redirect the runoff and sand into the catch basin which will be pumped out.

If you have any questions, these can be directed to Phil Kriesel or myself. As I mentioned on the phone, if I can receive an answer from you by August, 22, 2022 that would be appreciated.

Thank you for your assistance in this matter.

Rollie Alger, Park Commission  
Town of Phelps

----- Forwarded Message -----

**From:** Phil Kriesel <[pkriesel@msa-ps.com](mailto:pkriesel@msa-ps.com)>

**To:** Raine Gardner <[rgardner@msa-ps.com](mailto:rgardner@msa-ps.com)>; Jeff Anderson ([JAnderson@Pitlikandwick.com](mailto:JAnderson@Pitlikandwick.com)) <[janderson@pitlikandwick.com](mailto:janderson@pitlikandwick.com)>; Roland Alger <[alger427@yahoo.com](mailto:alger427@yahoo.com)>

**Sent:** Friday, August 5, 2022, 02:02:14 PM CDT

**Subject:** 07558017 Asphalt and drainage notes

All,

Attached is the marked up plan with the changes we discussed in the field.

Here is a list of the items discussed and noted on the plans:

1. Paving above the proposed water diversion bump to ensure the runoff water doesn't follow the edge of the asphalt.
2. Install asphalt curb north and east of the roadway to intercept water flow from the parking area down the trail. Blend this into the water diversion bump.
3. Install water diversion bump see attached plan sheet from Fence Lake Landing raise height to 3-inches.
4. Pave, spill asphalt into the riprap off of the parking area low spot removing the grass and topsoil.
5. The cross slope of the road is backwards add gravel to correct cross slope to 2% to 3% towards the riprap area.
6. Pave, spill asphalt into the riprap along the low side of the access road.
7. Install asphalt curb before the transition of the roadway super elevation near the existing culvert to the flume.
8. Install asphalt curb from CTH E north to the low area flume.
9. Pave drainage flume 2-inches thick from the roadway across the trail ensure curb opening is smaller than the width of the flume. Shape flume to keep water on the flume.
10. Install 42-inch catch basin (County Concrete) use R1689 grate for cover ensure rim is low enough to accept water from culvert endwall across the bike trail.

11. Install 62 l.f. 24-inch HDPE storm sewer @0.68% with apron endwall and riprap energy dissipater.

Please let me know if you have any questions about the items above.

Thanks

Phil



**Phil Kriesel** | Team Leader  
MSA Professional Services, Inc.

100% Employee Owned  
C = (715) 482-0238

P = (715) 304-0416



**CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS**

1.) SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.

2.) ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.

3.) THE INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE PLAN SHEETS AND IN THE ACCOMPANYING SPECIFICATIONS.

4.) ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

5.) THE AREA OF EROSION LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.

6.) ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN IS PRODUCED. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS. THIS APPROACH ACKNOWLEDGES THE DIFFICULTY OF WORKING IN WET CONDITIONS AS NECESSARY FOR PREVENTING THE IRRETRIEVABLE "FIRST FLUSH" OF SEDIMENT INTO ADJACENT WATERWAYS, DEGRADING WATER QUALITY AND FISH HABITAT.

7.) ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.

8.) GRUBBING AND GRADING OPERATIONS SHALL BE PERFORMED IN PROPER SEQUENCE WITH OTHER WORK TO MINIMIZE EROSION.

9.) ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.

10.) WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.

11.) CHANNELIZED RUNOFF FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS, IF PRACTICAL.

12.) THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND / OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT AND / OR DUST.

13.) EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.

14.) EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):

a. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.  
b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.

c. DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.

15.) ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES WHICH COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.

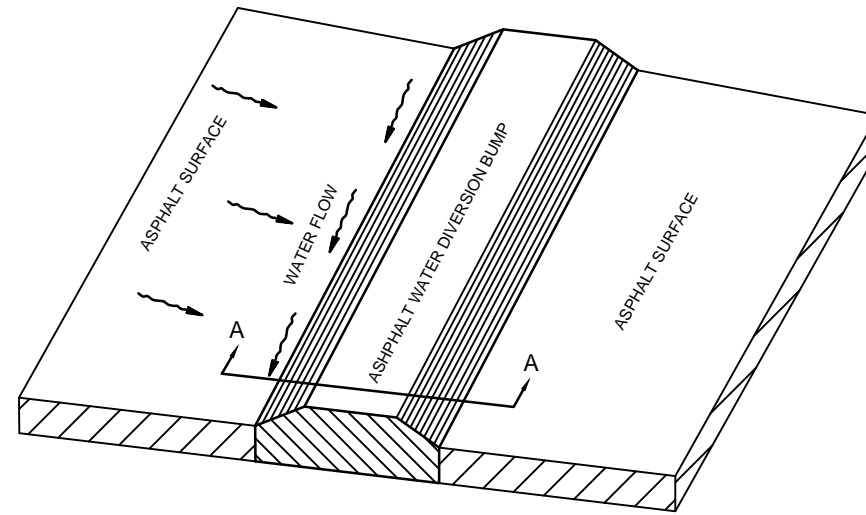
16.) ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.

17.) THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION (E.G. PLACEMENT OF SEED AND MULCH, EROSION MAT, SOD) A DISTURBED AREA SHALL INCLUDE WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.

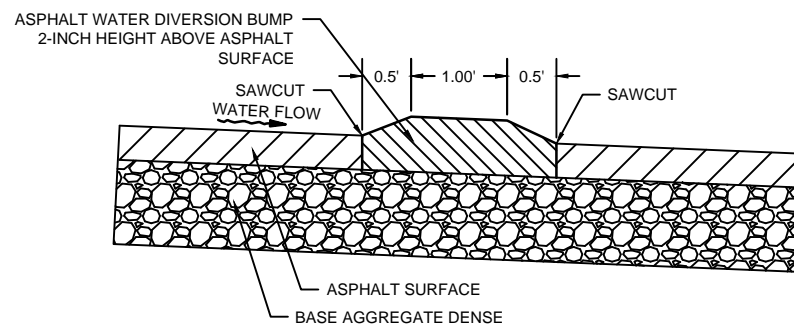
18.) WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.

19.) ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.

20.) ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF 4 TO 6 INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.



ISOMETRIC VIEW



SECTION A-A

NOTES:

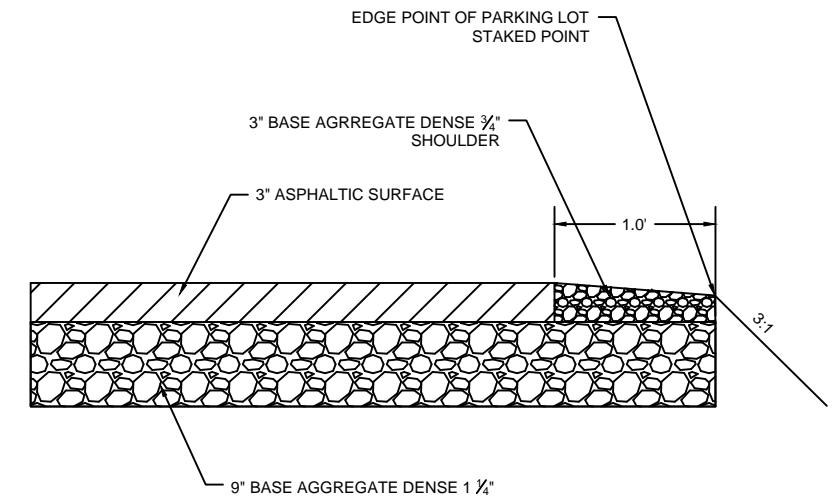
WATER DIVERSION BUMP TO BE INSTALL AFTER FINAL LIFT OF ASPHALT SURFACE

SEAL SAWCUTS WITH ASPHALT CRACK SEALANT

EXACT LOCATION AND WATER FLOW DIRECTION TO BE APPROVED BY THE ENGINEER IN THE FIELD BEFORE SAW CUTTING ASPHALT SURFACE

WATER DIVERSION DETAIL

NTS



TYPICAL SECTION

NTS

PROJECT NO.: 4433003	SCALE: AS SHOWN	NO.	DATE	REVISION	BY
PROJECT DATE: ---	DRAWN BY: PJK	---	---	---	---
CHECKED BY: JB					
PLOT DATE: 6/29/15, P:\44008\44330\44330\4433003\CADD\C3D\4433003 FrontEnd.dwg					

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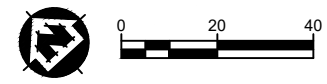
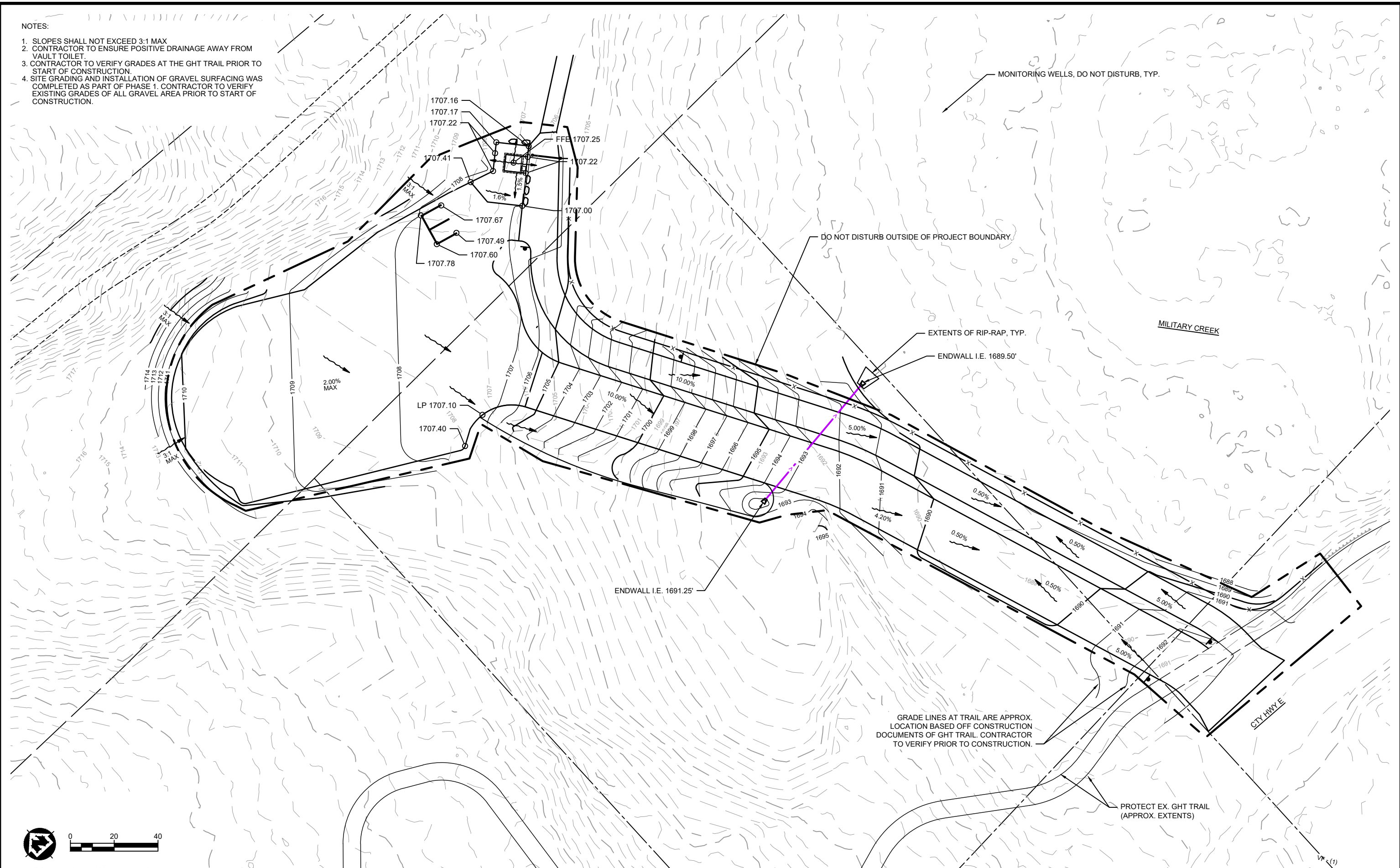
DETAIL SHEET

TRIBAL BOAT LANDING IMP. AT FENCE LAKE  
 LAC DU FLAMBEAU  
 VILAS COUNTY, WISCONSIN

FILE NO.  
4433003  
 SHEET  
G5

NOTES:

1. SLOPES SHALL NOT EXCEED 3:1 MAX
2. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM VAULT TOILET.
3. CONTRACTOR TO VERIFY GRADES AT THE GHT TRAIL PRIOR TO START OF CONSTRUCTION.
4. SITE GRADING AND INSTALLATION OF GRAVEL SURFACING WAS COMPLETED AS PART OF PHASE 1. CONTRACTOR TO VERIFY EXISTING GRADES OF ALL GRAVEL AREA PRIOR TO START OF CONSTRUCTION.



PROJECT DATE:	DRAWN BY:	NO.	DATE	REVISION	BY:
07/06/2021	LJG				
	DESIGNED BY: LJG				
	CHECKED BY: RLG				

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**MILITARY CREEK TRAILHEAD PROJECT**  
 TOWN OF PHELPS  
 VILAS COUNTY, WI

**GRADING PLAN**

PROJECT NO:  
07558017  
 SHEET  
C-104