



Division of Transportation
System Development
Northeast Regional Office
944 Vanderperren Way
Green Bay, WI 54304

Scott Walker, Governor
Dave Ross, Secretary
Internet web site: www.wisconsin.gov

Telephone: (920)492-5643
E-mail: dot.dtsd.ne.utility@dot.wi.gov

SPECIAL SUPPLEMENTAL PERMIT PROVISIONS

It is understood and agreed that approval of this utility permit is subject to applicant's full compliance with the standard supplemental permit provisions, special supplemental provisions found listed below, and the Wisconsin Department of Transportation's *Utility Accommodation Policy (UAP)*, current edition (Also known as Highway Maintenance Manual – Chapter 9, Section 15)
<http://www.dot.wisconsin.gov/business/rules/property-uap.htm>

Permit Number: 2018045

1. For the lane shift proposed, they must maintain 2-way traffic with at least 11' lanes.
2. No drop-offs of more than 2" can remain during non-working hours within the clear zone.
3. *(HMM 09-15-60-4.2)* Send the LCS request to WisDOT for review and approval at the appropriate time in accordance with the following advance notifications guidelines:
 - a. 7 calendar days for any freeway ramp, lane or shoulder closure
 - b. 7 calendar days for full roadway closure of any state highway (detour involved)
 - c. 7 calendar days for closures that may impact oversize/overweight (OSOW) permits
 - d. 3 business days for closures non-freeway or shoulder closuresContact Josh Falk, (920) 366-8033 or joshua.falk@dot.wi.gov.
4. Send WisDOT a copy of DNR Construction Stormwater NOI as soon as it is issued.
<mailto:dot.dtsd.ne.utility@dot.wi.gov>
5. *(HMM 09-15-45-3.2)* Manual tracking is prohibited over traffic lanes. The bore head can be tracked up to the shoulder edge or back of curb.
6. The depth of bury for underground facilities crossing the right of way shall be a minimum of 36 inches as measured from a straight line connecting the lowest points of the finished ground or pavement surface on each side of the right of way to the top of the facility at the time of installation.
7. *(HMM 09-15-25-2.0)* Bore shall be perpendicular to the highway, and bore pits established no closer to the highway than the toe of in slope or back of curb. The use of the median area is prohibited even to check the boring machine head.
8. *(HMM 09-15-45-5.0)* Restore any curb, gutter, pavement, shoulder, sidewalk, driveway, gravel base, ballast, or other highway element disturbed to the qualities, grades, compactions, conditions, etc., in accordance with WisDOT's [Standard Specifications for Highway and Structure Construction, current edition](#).



APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

DT1553

7/2017

Wisconsin Department of Transportation
s. 66.0831, 84.08, 85.15, 86.07(2)(a), 86.16, 182.017 and other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address Carl McCrary Village of Hortonville DPW 531 N. Nash Street Hortonville WI 54944		2. Work Start Date 4/2/2018	3. Work Finish Date 4/2/2019	6. Location Description (¼ section, section, town, range; provide plat and/or location maps) NW 1/4, SW 1/4, Section 35, T22N-R15E	
9. Facility Type (Check all that apply) and Description (Size, material, voltage, pressure, # fibers, etc.) <input type="checkbox"/> Comm: _____ <input type="checkbox"/> Electric: _____ <input type="checkbox"/> Gas/Oil: _____ <input checked="" type="checkbox"/> Water: 8" SDR 35 PVC <input checked="" type="checkbox"/> Sewer: 8" C900 PVC <input type="checkbox"/> Casing: _____ <input type="checkbox"/> Conduit: _____ <input type="checkbox"/> _____ <input type="checkbox"/> Transmission <input type="checkbox"/> Service <input checked="" type="checkbox"/> Distribution <input type="checkbox"/> Service (ESCP)		4. Is the work due to a WisDOT highway project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7. Work Location (List all that apply) Town: _____ Village: Hortonville City: _____ County: Outagamie	
10. Facility Orientation (Check all that apply) <input checked="" type="checkbox"/> Underground <input type="checkbox"/> Overhead <input checked="" type="checkbox"/> Crossing <input type="checkbox"/> Parallel <input type="checkbox"/> OSOW high clearance route <input type="checkbox"/> Structure attachment <input type="checkbox"/> Scenic easement (Off right-of-way)		12. Proposed Work Methods (Check all that apply) <input checked="" type="checkbox"/> Trench <input type="checkbox"/> Plow <input type="checkbox"/> Place fill <input type="checkbox"/> Rock blasting <input type="checkbox"/> Place cable <input checked="" type="checkbox"/> Open cut in conduit pavement <input type="checkbox"/> Hand/mechanical excavation Bore: <input type="checkbox"/> Hydraulic (Auger/Jack/Tunnel) <input type="checkbox"/> Pneumatic (Mole) <input checked="" type="checkbox"/> Directional 1 (Manually tracked) <input type="checkbox"/> Directional 2 (Computer tracked) <input type="checkbox"/> Unknown (At this time) Install or attach to poles/towers: <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Guys (~Diameter) (Name of existing owner) (Provide details for all guy-wires on plan sheets) Pothole (Subsurface excavation): <input type="checkbox"/> Air <input type="checkbox"/> Water Tree/vegetation control: <input type="checkbox"/> Trim (Prune) <input type="checkbox"/> Plant <input type="checkbox"/> Remove (Cut) <input type="checkbox"/> Mow <input type="checkbox"/> Chemically treat		8. Highway (List all that apply) WIS: 15 US: _____ Interstate: _____	
11. Work Types (Check all that apply) <input checked="" type="checkbox"/> New facility <input type="checkbox"/> Remove <input type="checkbox"/> Joint install <input type="checkbox"/> Maintenance <input type="checkbox"/> Improve or repair existing <input type="checkbox"/> Discontinue, left in place		13. Work Zone Description (Check all that apply). (Provide relevant diagram(s) with application.) <input type="checkbox"/> Not applicable <input checked="" type="checkbox"/> Full road closure: detour <input type="checkbox"/> Full road closure: temporary <input checked="" type="checkbox"/> Lane closure: without flagging <input type="checkbox"/> Lane closure: with flagging <input type="checkbox"/> Lane encroachment (2 feet or less) <input type="checkbox"/> Intersection/roundabout <input type="checkbox"/> Shoulder/parking lane closure <input type="checkbox"/> Railroad crossing Freeway/expressway location <input type="checkbox"/> Off shoulder: < 30' off white line <input type="checkbox"/> Off shoulder: ≥ 30' off white line <input type="checkbox"/> Near right-of-way line or fence Non-freeway/expressway location <input type="checkbox"/> Off shoulder: < 15' off white line <input type="checkbox"/> Off shoulder: ≥ 15' off white line <input type="checkbox"/> Back of curb: < 2' behind <input type="checkbox"/> Back of curb: ≥ 2' behind		14. Is the facility near a survey monument? HMM 09-15-35 If yes, call (866) 568-2852 or email geodetic@dot.wi.gov . <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 15. Will appurtenances be installed with the facility? If yes, provide a description and/or specification for each item. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 16. Trans 401 project designation? If Major, provide a formal erosion control plan. HMM 09-15-55 <input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor 17. Are any environmental approvals, certifications or permits required from other regulatory agencies, including tribal governments? If yes, provide a copy of each item. If no, provide proof of other agency coordination as needed. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

* Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has not been completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. **ANY PERMIT ISSUED IS REVOCABLE.**

18. Utility Person Responsible for Construction Carl McCrary	Telephone Number 920-378-3958	It is understood and agreed that WisDOT approval is subject to the applicant's full compliance with all pertinent statutes, as well as any regulations and rules of other jurisdictional agencies (which may be more restrictive), any supplemental permit provisions, and WisDOT's Utility Accommodation Policy , current edition.
19. Utility or Project 24/7 Emergency Contact Carl McCrary	Telephone Number 920-378-3958	
20. Provide company name and address of utility authorized representative if not employed by the applicant. same as applicant		<i>Carl McCrary</i> (Utility Authorized Representative Signature – If filled via computer, brush script font) DPW Dir.-Village of Hortonville 920-378-3958 dpw@vohortonville.com (Title) (Telephone Number) (Email Address) 2/16/2018 (Date)
21. Provide additional work details, if needed (use back page or include separate pages) Open trench excavation Directional bore to connect new sanitary sewer private interceptor main to existing sewer main and new public water main loop to existing water main.		This permit does not transfer any land, or give, grant or convey any land right, right in land, or easement in WisDOT right-of-way. It is not assignable or transferrable. If a utility facility changes ownership, this permit terminates. The new owner must obtain a permit in order to operate and maintain the facility in WisDOT right-of-way.

For Wisconsin Department of Transportation Use Only

<input checked="" type="checkbox"/> UTILITY SHALL NOTIFY WISDOT REPRESENTATIVE LISTED BELOW 3 DAYS BEFORE STARTING ANY WORK: Region contact, office address, telephone number and email address Linda Skaleski WisDOT, Northeast Region 944 Vanderperren Way Green Bay, WI 54304 920-492-4166 dotdtsdneutilitycoordination@dot.wi.gov	<input checked="" type="checkbox"/> Review All Supplemental Permit Provisions <input checked="" type="checkbox"/> Revisions Made to Drawings or Other Pages <input checked="" type="checkbox"/> Lane Closure System notification required HMM 09-15-60 <input type="checkbox"/> Insurance or performance bond required <input type="checkbox"/> Joint installation: See permit(s) # _____ <input type="checkbox"/> Private utility (Non-public ownership and/or use) <input type="checkbox"/> Expedited Service Connection Permit <input type="checkbox"/> This permit voids & supersedes # _____ issued: _____ <input type="checkbox"/>	Application Received 2/19/2018
		Application Completed 3/9/2018
		Permit Issued 3/14/2018
		Permit Extended
		Permit Amended
		Permit Number 2018045

(WisDOT Improvement Project ID Numbers, if applicable)

(WisDOT Authorized Representative Signature – If filled via computer, Brush Script font)

**APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY
RIGHT-OF-WAY (continued)**

Wisconsin Department of Transportation

DT1553

Use this section to provide information that does not fit on front page

Regarding item #15; an 8" gate valve will be installed in the highway right-of-way between the new public main loop and the current water main.

Regarding item #17; a DNR Construction Stormwater NOI has been submitted for this entire development project. The application was made on February 2, 2018 and as of the date of this DOT application, the NOI has not yet been issued by the DNR.

INDEMNIFICATION

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes harmless, as allowed by Wisconsin law, from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person.

Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.



STANDARD SUPPLEMENTAL PERMIT PROVISIONS

For Wisconsin Department of Transportation Utility Facility Permits

Acronyms used in this document:

- BMPs: Best Management Practices
- R/W: Right-of-Way
- UAP: Utility Accommodation Policy
- HMM: Highway Maintenance Manual
- WisDOT: Wisconsin Department of Transportation

1. GENERAL WORK REQUIREMENTS

- As required by Wisconsin Statute 182.0175, when filing your Diggers Hotline request ensure that this WisDOT Permit Number is in the Remarks Section of the Diggers Hotline Ticket.
- The Permittee shall bore under all driveways, private entrances, wetlands, culverts, and all roadways.
- The Permittee is responsible for obtaining any permits from the Department of Natural Resources, or any other agency that may have an interest in the area impacted by the construction of the utility facility.

2. **WORK DUE TO A WISDOT HIGHWAY PROJECT.** This approved permit constitutes acceptance that the work in this permit is compatible with permit requirements. This approved permit is NOT a Work Plan Approval/Start Work Notice as required by Trans 200.05(07). This approved permit is NOT a Work Plan Approval/Start Work Notice for a non-Trans 220 project. This approved permit does NOT approve or authorize an agreement between WisDOT and the Permittee for compensable work due to a WisDOT highway project.

3. **PERMIT TERM.** For as long as the Permittee continues to own, operate and maintain this utility facility within WisDOT R/W in accordance with the terms of its permit and WisDOT's UAP, this permit shall be valid.

4. **REVOCATION BY WISDOT.** WisDOT may revoke this permit if its own use of the R/W would be facilitated by the full or partial relocation of the Permittee utility facility, and shall provide the Permittee with written notice prior to revocation. At which time WisDOT shall work with the Permittee to find a suitable replacement area on R/W near the terminated location if possible. WisDOT shall not compensate the Permittee to move its utility facility in keeping with WisDOT's policy on compensable / non-compensable utility facility moves.

5. **TERMINATION BY PERMITTEE.** The Permittee may terminate this permit upon 60 days written notice to WisDOT. Upon such termination, the Permittee shall either remove its communication cable facility from the R/W, or abandon it in-place provided it does not constitute an environmental hazard.

6. **HOLIDAY WORK RESTRICTIONS for 2018.** The Permittee shall not work on January 1, May 28, July 4, September 3, and November 22, and December 25.

7. **WORK-TIME RESTRICTIONS.** Weekday work is from sunrise to sunset. Weekend work may be allowed upon prior approval from WisDOT. No work shall take place during nighttime hours unless authorized by WisDOT.

8. **TRAFFIC CONTROL.** All work zone traffic control will be in accordance with the Wisconsin Manual on Uniform Traffic Control Devices. Additional guidance is available from WisDOT through a booklet entitled, *Work Zone Safety, Guidelines for Construction, Maintenance, and Utility Operations* or from HMM 09-15-60.

9. **WORK AREA PROTECTION DURING NON-WORK TIMES.** The Permittee may store vehicles, equipment, or materials on the non-freeway R/W provided they are placed as close to the non-freeway R/W line as possible, but no less than 30 feet from the edge of the nearest travel lane. If vehicles, equipment, or materials must be parked or stored within an area that is less than 30 feet from the edge of the nearest travel lanes, appropriate temporary concrete or water-filled barriers, signing, and devices shall be utilized. The Permittee shall ensure that any excavations left open during non-work times are well marked and secured from public intrusion.

The primary objective will be maintenance of a safe traffic and working environment. No operation shall to any extent pose any hazard neither to, nor in any manner influence traffic at any time.

All vehicles used to conduct the work operations will be equipped with conspicuously visible roof-mounted revolving or strobe lights. These lights shall be in operation just prior to and during the time the work operations are being conducted. Hazard warning lights on the vehicles must also be operating.

10. **WORK RESTRICTIONS.** For the purposes of placement of these facilities, as stated with this permit request, the State security fence shall not be opened or damaged.

11. **CLEAR ZONE / DRAINAGE INTERFERENCE.** No topsoil or other excavated piles of soil shall be deposited in any manner that interferes with the clear zone or regular drainage patterns within the highway.

As much as possible, all equipment, operations, and spoil material should be situated or accomplished off of the highway.

12. **EROSION CONTROL.** The Permittee shall use the appropriate erosion control BMPs to contain soil directly at the site to prevent disturbed soil from getting into nearby waterways and wetlands. All appropriate erosion control devices shall be in place **prior to starting construction activities**. Temporary seeding shall be used as necessary after rough grading and before completion of the project. The Permittee shall ensure that erosion control BMPs used to protect restored areas remain in place until replacement vegetation achieves sustained growth.

The Permittee shall take all precautions necessary to prevent mud, dirt, or other debris from being deposited onto the shoulder or pavement of all access roads or highways. Any materials deposited on the shoulder or pavement shall be removed immediately. Ruts may remain as is if the Permittee is accessing the R/W from private property, but appropriate erosion control BMPs shall be used to contain disturbed soil at the site.

13. **R/W RESTORATION.** Upon completion of the project a variation of erosion control measures will be required to restore the area that has been disturbed allowing it to return to the manner it was in previous to the construction. All disturbed sites will require a seed mixture that includes a quick sprouting variety with fertilizer and mulch. Other possibilities that may have to be considered are Geotextile fabric, e-mat, and stone ditch checks.

The Permittee is responsible to assure that erosion control measures used to protect restored areas remain in place until replacement vegetation achieves sustained growth.

The basic drainage pattern of the highway shall remain undisturbed by the permitted work. Upon project completion, all spoils, debris, refuse, and waste resulting from the permitted work shall be removed from the work site. Should future maintenance work on the Permittee's utility facility result in the disturbance of the existing R/W, the Permittee shall restore the R/W to its original condition as soon as possible.

Any works or operations not in full compliance herewith shall justify an order by any inspecting officer of WisDOT to cease all further progress on the work, and to accomplish all restorations of disturbed areas, including full restorations of the pavement

Upon completion of the work, all disturbed areas shall be restored according to requirements stated in the Utility Accommodation Policy, HMM 09-15-65, and in a manner satisfactory to WisDOT

14. **NOTIFICATIONS / CONTACTS.** Notify Northeast Region permit coordinator/field inspector, by phone or email, three days prior to the start of construction. Notify Diggers' Hotline 800/242-8511 at least three working days prior to the start of any excavation. It is the obligation of the permittee to determine the location of, and avoid any damage to, the pre-existing lines and facilities of others.

15. **TREES.** Prevent the spread of oak wilt by treating all cut surfaces and abrasions sustained **between April 1 and September 30** by healthy oak trees and saplings with a thorough application of tree paint immediately upon discovering a wound. Between these dates, also paint the cut surfaces of the stumps of all healthy oak trees and saplings immediately after cutting, whether remaining in place or grubbed.

This permit approves the installation of facilities as shown on the diagram provided. If the above assigned position is not feasible, an alternate location of facilities shall be approved prior to installing the facilities by contacting the permit coordinator approving the permit. If the facility is later discovered to be at a location other than that designated by the permit you may be required to relocate the facility at your expense.

This permit is subject to the attached drawings, these supplemental provisions, and WisDOT's Utility Accommodation Policy. New supplemental provisions may be added, or the existing ones deleted or amended in the future as different issues arise during the installation, operation and maintenance of the permittee's facilities.

5.0 ROW Restoration

A utility shall restore the highway and the adjacent ROW to its original (as close as possible) condition within **two weeks** after completing facility installation. Exceptions may be allowed (e.g., for bad weather) with prior approval from WisDOT. Failure of the utility to make prompt and satisfactory restorations of the highway or adjacent ROW may cause WisDOT to arrange for restoration by others at the utility's expense.

Restore any curb, gutter, pavement, shoulder, sidewalk, driveway, gravel base, ballast, or other highway element disturbed to the qualities, grades, compactions, conditions, etc., in accordance with WisDOT's [Standard Specifications for Highway and Structure Construction](#), current edition. See [5.2](#) for additional requirements for pavement restoration. Any subsequent heavings, settlements, or other faultings attributable to the permitted work shall be repaired in a manner satisfactory to WisDOT at the utility's expense. Use [Attachment 2](#) as a guide for backfilling excavations. Avoid situations as shown in Figure 3.



Figure 3: Examples of Improper ROW Restoration

Restore any disturbed turfed ROW area with at least 4" of topsoil, and reseed with perennial grass or sod to the satisfaction of WisDOT. See section [2.0](#) for details on trees or vegetation restoration. Once restored, the utility shall maintain turfed areas, trees and vegetation until they achieve sustained growth.

If, in WisDOT's opinion, the permitted works or facilities are found to obstruct highway drainage, unduly increase the difficulty of highway maintenance, or in any other manner adversely affect a highway interest, the utility shall, upon notice, cure the fault as directed and restore the highway facility to the satisfaction of WisDOT.

5.2 Pavement Restoration Requirements

Sawcut all pavement full-depth when open cutting. [Attachment 3](#) has examples when pavement is not sawcut.

Concrete pavement shall be restored in conjunction with WisDOT standard detail drawing [13C9](#). Avoid creating additional joints when possible. The minimum dimension for a patch will be 6' by the full lane or shoulder width. High early strength concrete may be specified when needed. Additional guidance on concrete pavement repair can be found in [FDM 14-25-10, Exhibit 10.1](#).

The minimum dimension for an asphaltic concrete patch will be 6' by the distance to the nearest joint or seam. Use hot mix asphalt whenever possible. If cold patch is needed in an emergency, replace with hot mix as soon as possible. Figure 4 below shows improper asphaltic pavement restoration.



Figure 4: Both patches improperly backfilled/compacted, and not patched to nearest joint or seam

6.0 Temporary Driveways for Utility Construction

Do not build temporary driveways for utility construction unless WisDOT has granted prior approval. If a temporary driveway is needed, submit a separate STH connection permit application [dt1504](#) for WisDOT review along with the utility permit application. The reason(s) for needing the temporary driveway should be included on both applications. A temporary driveway may not be approved, so a utility is advised to have a back-up access plan. Do not locate a temporary driveway within the functional area of an intersection. See Figure 5.

Existing driveways may be used for utility construction as long as permission is obtained from the property owner. A STH connection permit is not required unless there will be a significant change in use, e.g., an agricultural driveway will experience heavy truck traffic or a major increase in the number of vehicle trips per day. In this situation, submit a STH connection permit to make temporary modifications to the driveway.

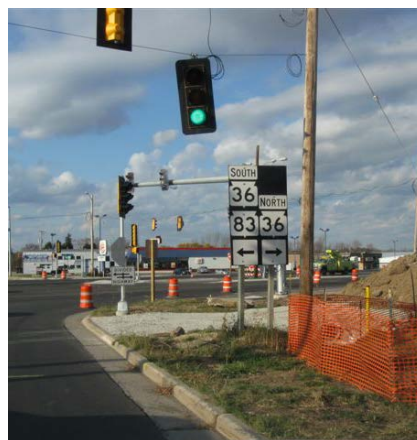
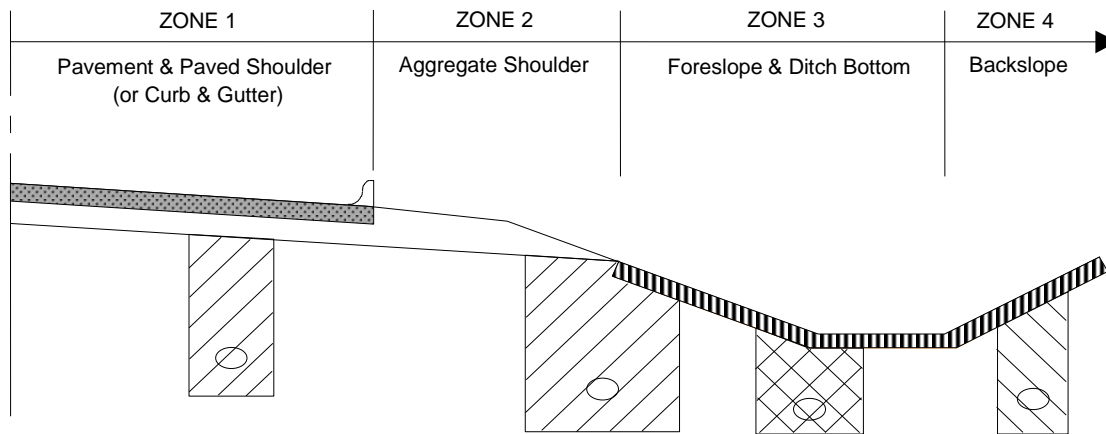


Figure 5: Temporary driveway within the functional area of an intersection

Attachment 2: Backfilling Excavation Detail Drawings



LONGITUDINAL EXCAVATION

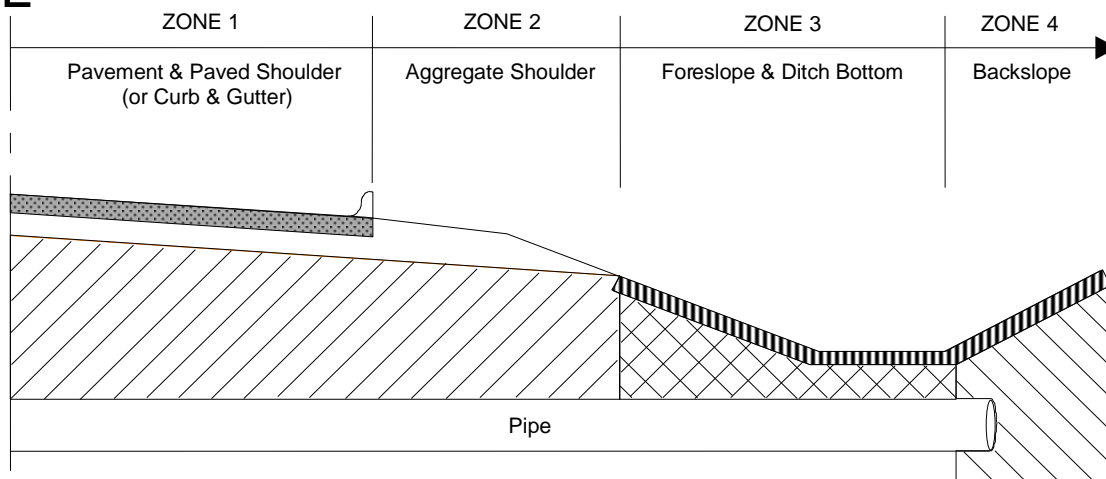


KEY

	Slurry Backfill
	Granular Backfill
	4" Topsoil
	Spoil backfill



TRANSVERSE EXCAVATION



NOTES

- 1) Use slurry backfill to replace the excavated material in ZONES 1 and 2.
- 2) If the work area covers BOTH ZONES 2 & 3, use slurry backfill to replace the excavated material.
- 3) Use granular backfill to replace the excavated material in ZONE 3. Granular backfill placement and gradation shall conform to WisDOT's Standard Specifications for Road and Bridge Construction, current edition.
- 4) Place backfill in ZONES 3 & 4 to within 4" of the finished grade to allow for topsoil placement.
- 5) Suitable spoil backfill may be used in ZONE 4 at the discretion of WisDOT.

SLURRY BACKFILL

The materials shall be placed in a clean concrete mixer truck and thoroughly mixed in the following quantities FOR EACH CUBIC YARD REQUIRED:

- SAND 1,350 lbs
- #1 STONE 750 lbs
- #2 STONE 1,150 lbs
- WATER 25 gals (0 to -0.5 gal variance)

No additional water will be allowed. The above weights are damp weights. Just prior to placing the slurry backfill, the mixer shall be run at mixing speed for one full minute to assure an even mixture.

Attachment 3: Pavement Restoration Examples

Figure 1a: Excavation with planned sawcut¹

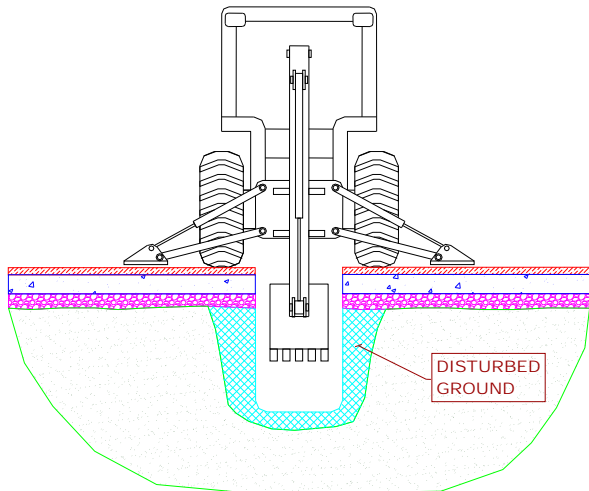


Figure 1b: Actual excavation without sawcut

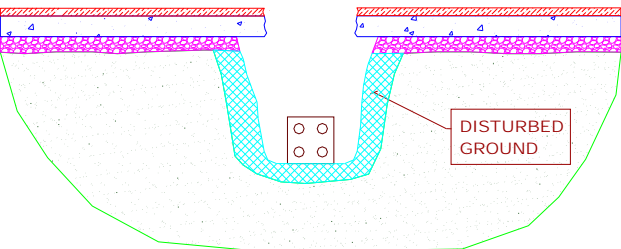


Figure 1c: Trench backfilling without slurry

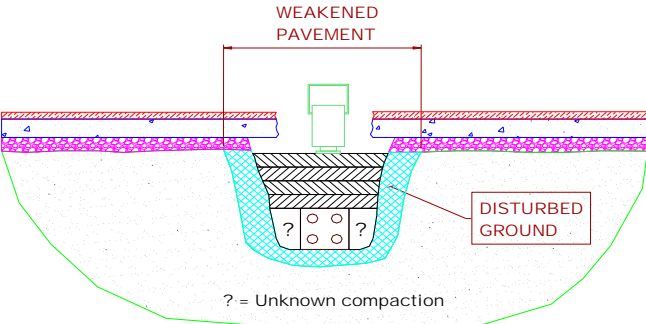
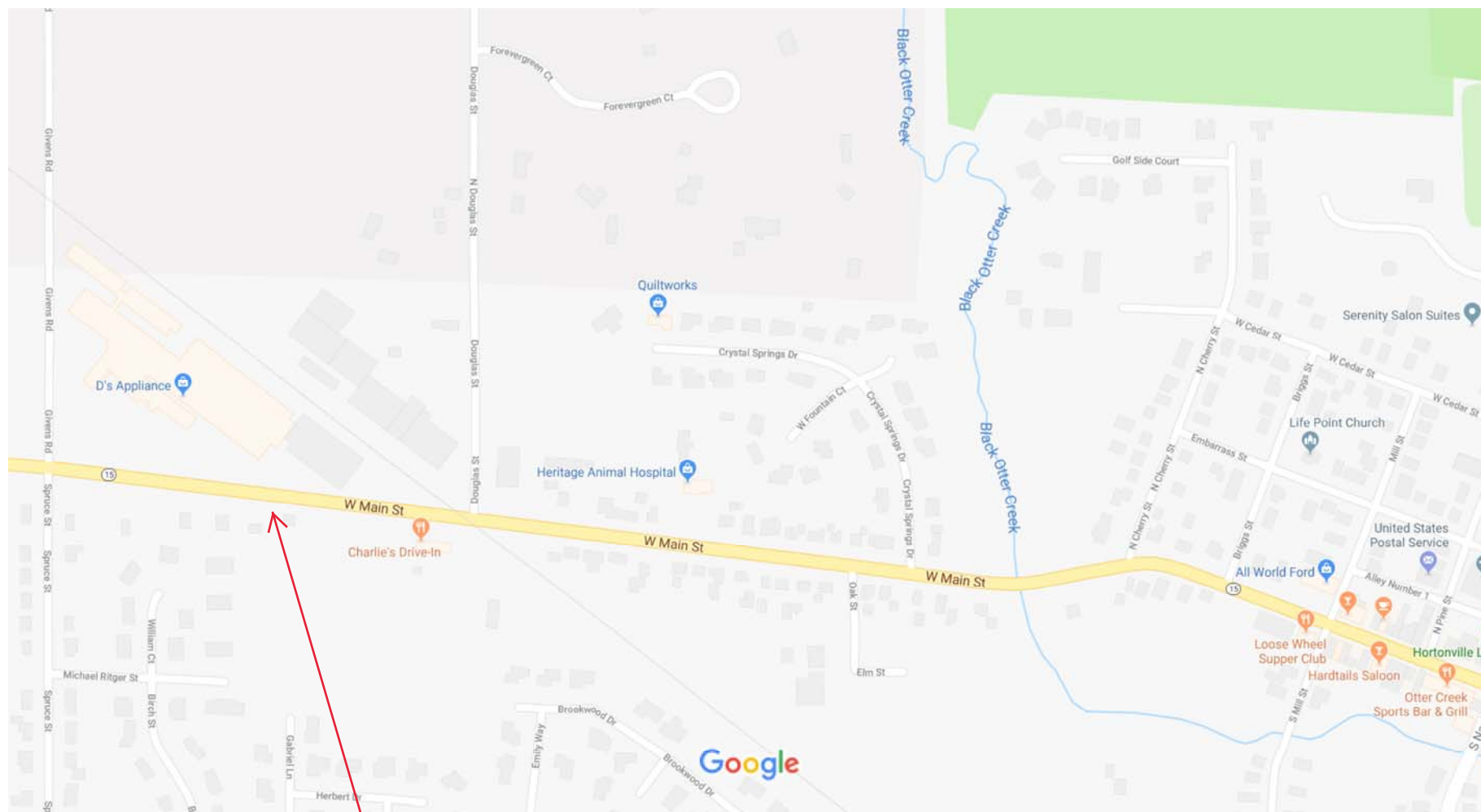


Figure 2: Concrete pavement repair without sawcut. Note top of pavement edge and missing dowel bar. In lower picture, dowel bars in gutter are bent and not ready to accept slurry.



¹ Drawings courtesy of CNA Consulting Engineers

Google Maps



Map data ©2018 Google 200 ft

CLICK LINK TO VIEW THIS
AREA IN GOOGLE MAPS

NEW BUILDING FOR:
COTTAGES ON MAIN, LLC
818 W. MAIN STREET • HORTONVILLE, WI 54944

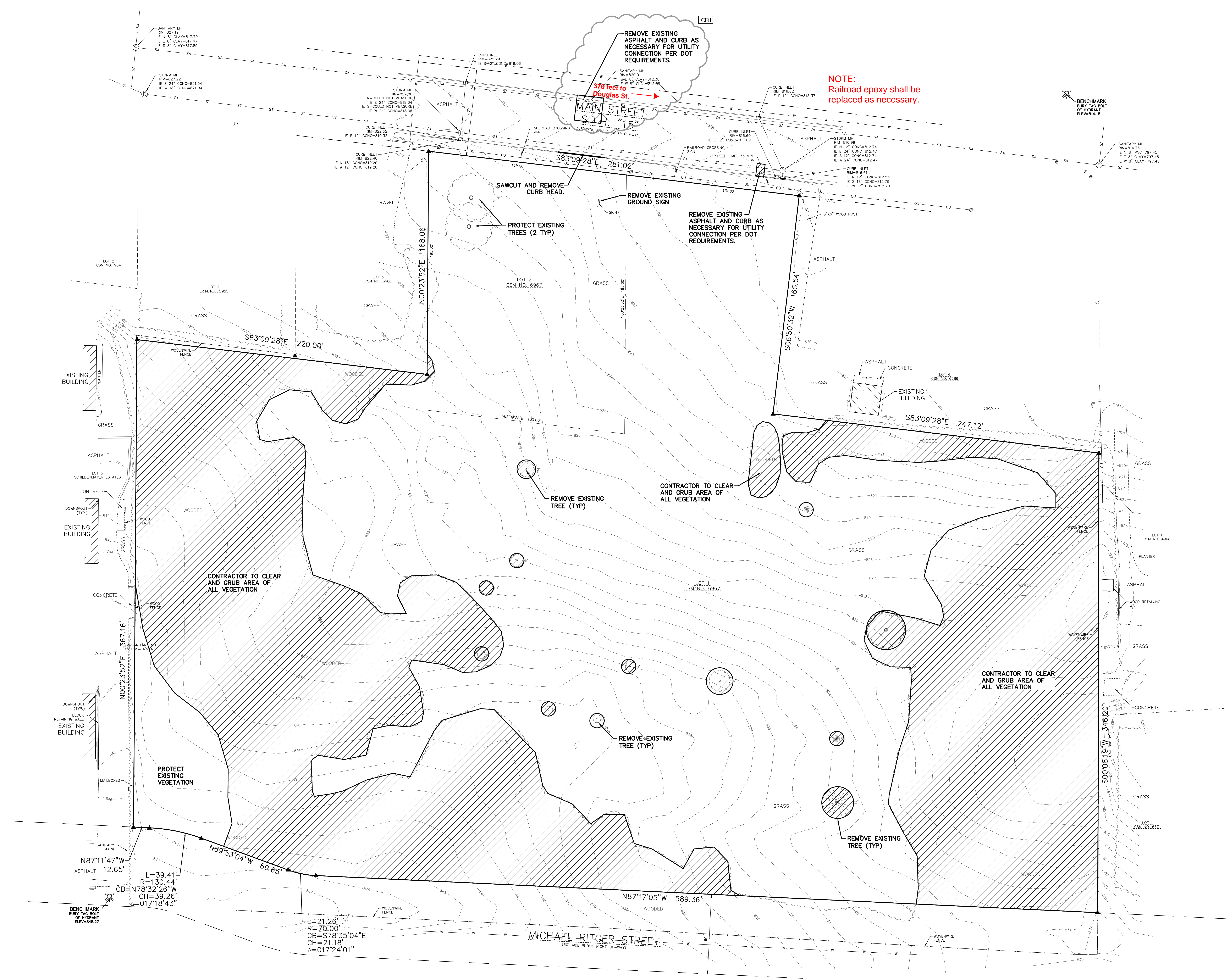
PROFESSIONAL SEAL

SHEET DATES	
ISSUE DATE	JAN. 5, 2018

REVISIONS	
AD1	FEB. 16, 2018
CB1	MAR. 5, 2018

SHEET INFORMATION	
EXISTING SITE AND DEMOLITION PLAN	
SHEET NUMBER	

C1.1

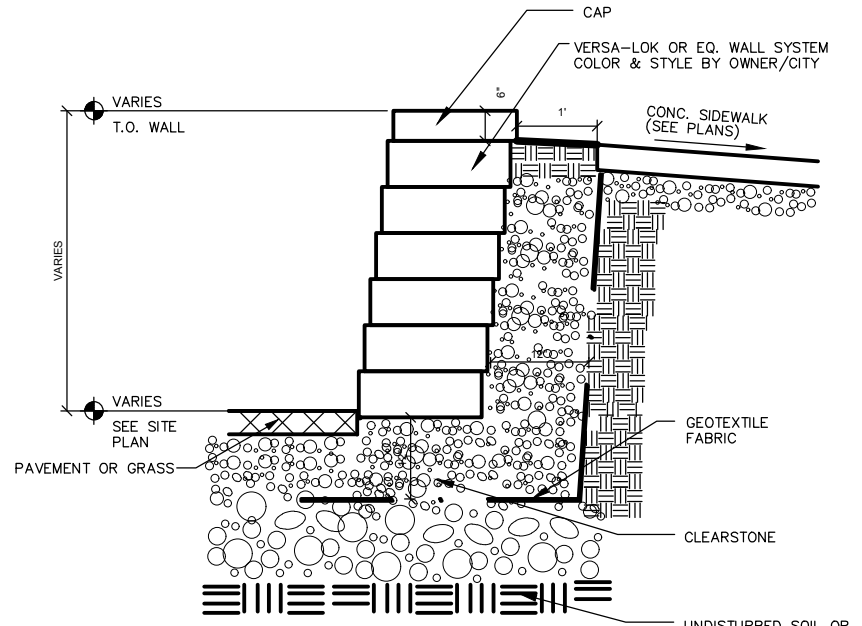


NOTE:
Railroad epoxy shall be replaced as necessary.

NOTE:
SURFACE INDICATIONS OF UTILITIES ALONG WITH DIGGER'S HOTLINE MARKINGS ON THE SURVEYED PARCEL HAVE BEEN SHOWN. SIZES AND ELEVATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES IN COMBINATION WITH AVAILABLE DATA. PROVIDED TO EXCEL ENGINEERING. EXCEL ENGINEERING MAKES NO GUARANTEE THAT ALL THE EXISTING UTILITIES IN THE SURVEYED AREA HAVE BEEN SHOWN NOR THAT THEY ARE IN THE EXACT LOCATION INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES CRITICAL TO CONSTRUCTION.

NOTE:
PROPERTY LINES AND EASEMENTS SHOWN ON THIS PLAN WERE DRAFTED FROM INFORMATION CONTAINED IN TITLE COMMITMENT NO. NCS-820837-MAD, BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED AUGUST 30, 2017. AN UPDATED PLAT OF SURVEY OR ALTA SURVEY HAS NOT BEEN AUTHORIZED AND THE PROPERTY LINES SHOWN ON THIS PLAN MAY BE INCOMPLETE OR IN ERROR.





*THIS DETAIL IS NOT FOR CONSTRUCTION. THE WALL MANUFACTURER IS RESPONSIBLE FOR ACTUAL DESIGN AND CONSTRUCTION DETAILS.

RETAINING WALL DETAIL

NO SCALE

NEW BUILDING FOR:
COTTAGES ON MAIN, LLC
818 W. MAIN STREET • HORTONVILLE, WI 54944

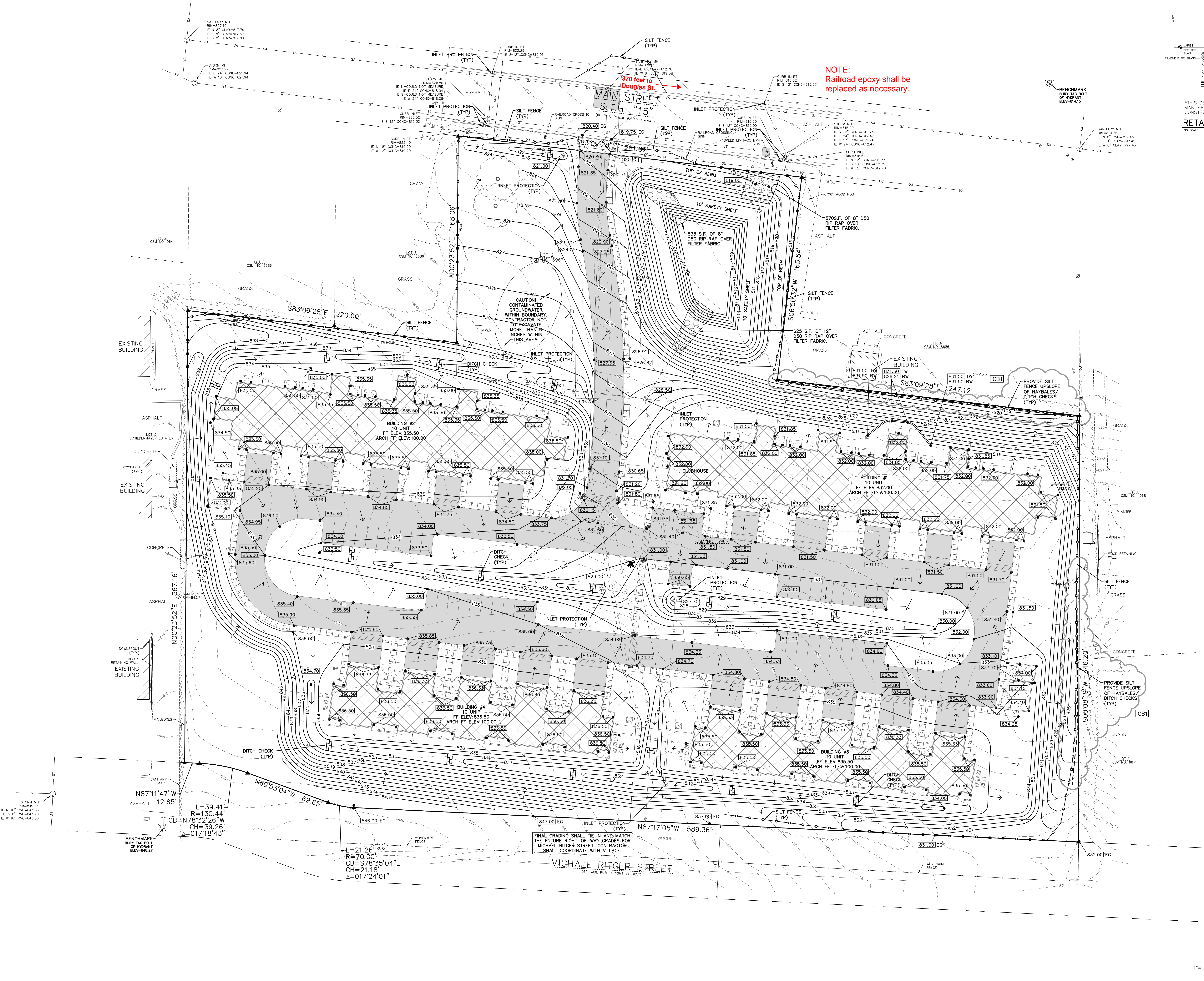
PROFESSIONAL SEAL

SHEET DATES	
ISSUE DATE	JAN. 5, 2018

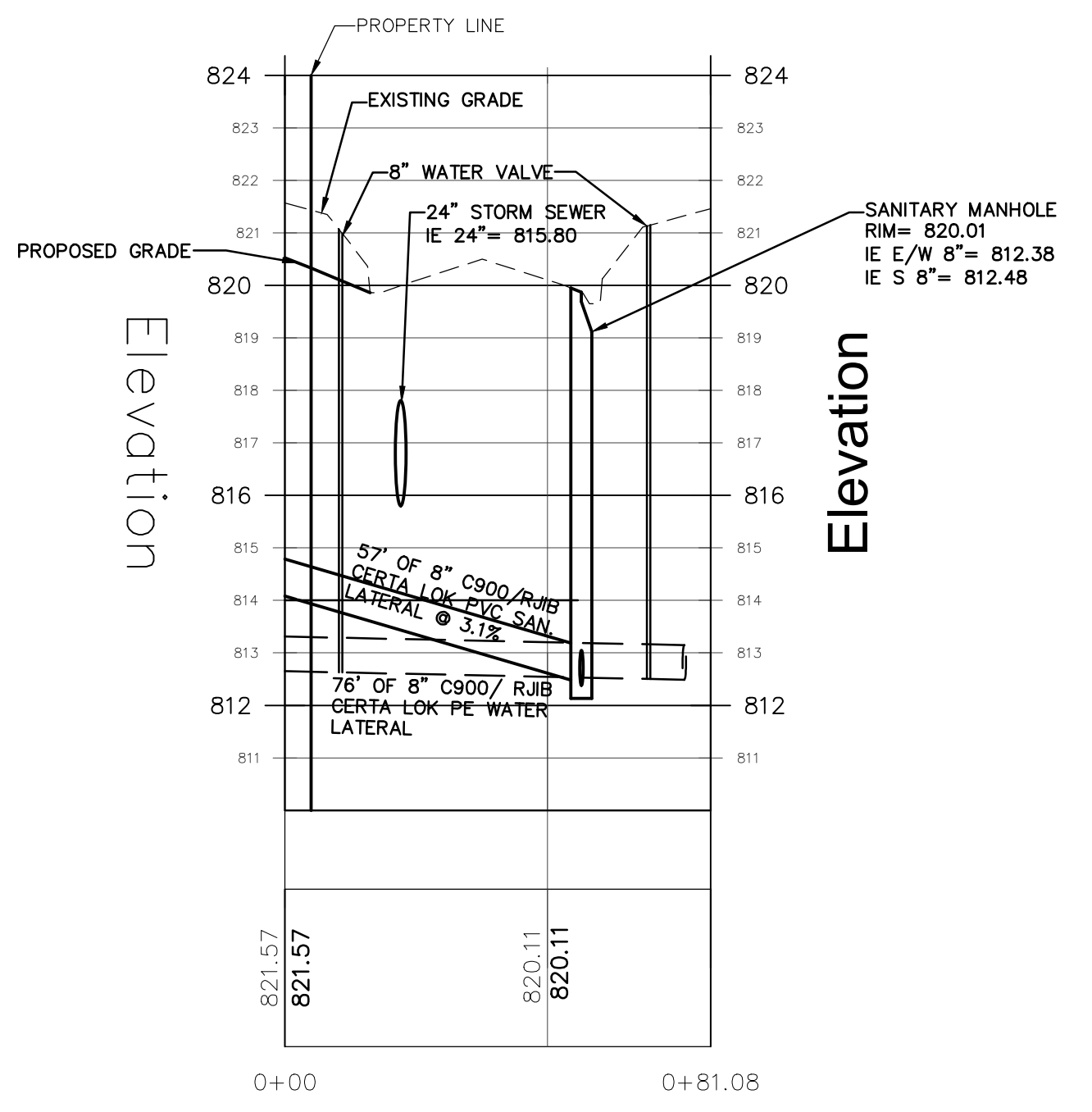
REVISIONS	
AD1	FEB. 16, 2018
CB1	MAR. 5, 2018

SHEET INFORMATION	
GRADING AND EROSION CONTROL PLAN	
SHEET NUMBER	REVISED

C1.3

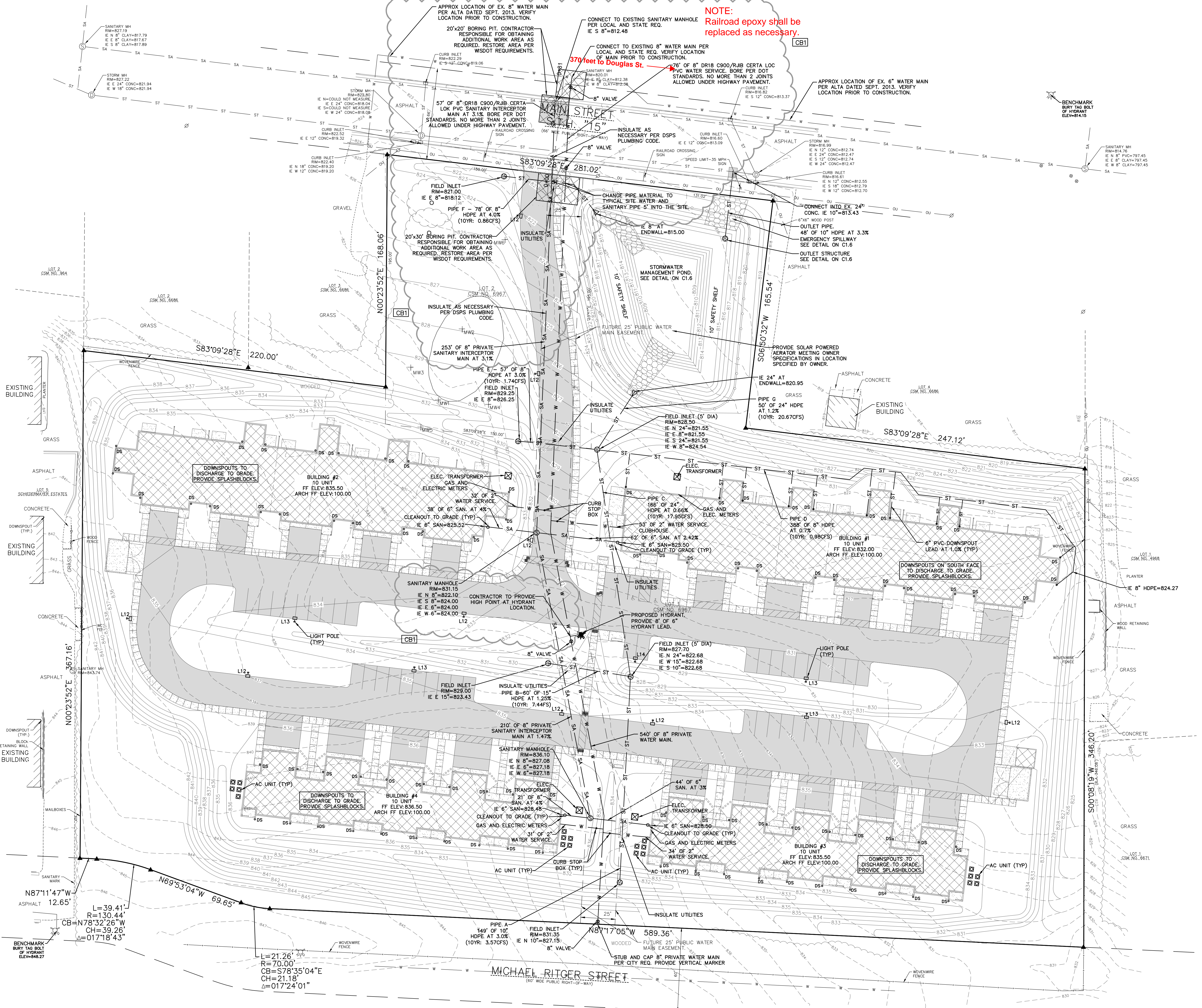


San- Water Alignment



SANITARY AND WATER MAIN PROFILE

HORIZONTAL SCALE: 1"=30'-0"
VERTICAL SCALE: 1"=3'-0"



PRIVATE WATER MAIN, SERVICE, AND VALVE SPECIFICATIONS:

- PROPOSED 8" PRIVATE WATER MAIN SHALL BE DR18 AWWA C900 PVC CLASS 150 WITH 10 GAUGE TRACER WIRE AND MINIMUM 6.5' MINIMUM BURY. PROVIDE PUSH ON JOINTS MEETING AWWA C-153 AND ANSI A-21.53.
- VALVES SHALL BE RESILIENT WEDGE GV WITH STAINLESS BOLTS AND FUSION BONDED EPOXY INSIDE/OUT. PROVIDE MECHANICAL JOINTS WITH TYLER VALVE BOX OR EQUAL. MIN 250PSI. SHALL COMPLY WITH AWWA C-515.
- PROVIDE COR-BLUE TEE BOLTS AND POLY WRAPPED C153 FITTINGS
- STAINLESS SERVICE SADDLES SHALL BE PROVIDED FOR ALL PROPOSED SERVICE LATERALS. PROVIDE MINNEAPOLIS PATTERN CURB STOP BOXES WITH SS STATIONARY ROD. SDR 9 POLY WATER SERVICES TO THE BUILDINGS WITH SS STIFFENERS.

HYDRANT SPECIFICATIONS:

- DRY BARREL AWWA C-502
- WATEROUS PACER WB67-250 OR EQUAL
- RED WITH ALL STAINLESS BOLTS
- CRUSHED STONE 1 FOOT MINIMUM ABOVE HYDRANT DRAIN
- MINIMUM BURY DEPTH 7 FEET
- MEGA-LUG RESTRAINED
- POLY WRAP ALL DUCTILE
- THRUST BLOCK UNDER HYDRANT, 3 CU. FT. MINIMUM
- 6" CONCRETE OR STONE BASE
- NON-WOVEN FABRIC OVERLAY OVER THE STONE

INSULATE BETWEEN STORM & OTHER UTILITIES PER STATE AND LOCAL REQUIREMENTS.

DESIGN, SIZE, AND LOCATIONS OF ELECTRIC TRANSFORMERS AND AC UNITS SHALL BE VERIFIED BY UTILITY COMPANY/CONTRACTOR.

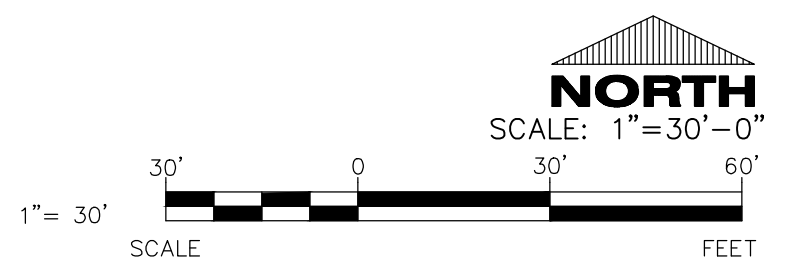
DESIGN, SIZE, AND LOCATIONS OF ALL SANITARY SERVICE, WATER SERVICE, AND STORM SEWERS SHALL BE VERIFIED BY PLUMBING AND FIRE PROTECTION CONTRACTOR.

RIGHT-OF-WAY RESTORATION FOR SANITARY AND STORM SEWER SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. COST OF RESTORATION FOR WATER MAIN TO BE DETERMINED.

ALL WATER AND SANITARY CROSSINGS TO MAINTAIN MIN. SEPARATION PER DSPS 382.40(8)(b)2.

BORING NOTES:

- THE WATER AND SANITARY LATERAL WITHIN THE ROW SHALL BE INSTALLED PER THE CITY OF HORTONVILLE AND WIS DOT STANDARDS AND CONSTRUCTION SPECIFICATIONS
- BORING UNDER STH 15 SHALL BE PER WISCONSIN DOT PERMIT CONDITIONS. BACKFILL SHALL BE NATIVE MATERIAL UNLESS OTHERWISE REQUIRED BY WIS DOT PERMIT CONDITIONS
- RESTORATION OF ALL ROW AREAS SHALL BE PER THE CITY OF HORTONVILLE AND WIS DOT SPECIFICATIONS.
- SANITARY AND WATER PIPE MATERIAL SHALL BE DR18 C900/RJB CERTA LOK PVC.



Work in Travel Lane (Maintaining Two-Way Traffic, 35 MPH or Less)

