

Attachment 1: Sample Start and Work Completion Notice



Utility Permit Start Work Notice

Provide all information and e-mail or fax to the utility permit coordinator or other region contact listed on the approved permit form **a minimum three working days** prior to the start of the work. When restoration is complete and ready for inspection, e-mail or fax to the same contact.

WisDOT Utility Permit Number:

SOUTHWEST REGION

Mark Goggin
mark.goggin@dot.wi.gov
Fax: 608-243-3380 Madison office
608-789-7896 La Crosse office

Utility Job Number:

SOUTHEAST REGION

Ryan Schnurer
ryan.schnurer@dot.wi.gov
Fax: 262-521-4425

Utility Company:

NORTHEAST REGION

Ray Drake
ray.drake@dot.wi.gov
Fax: 920-492-0144
NE Utility Unit General E-Mail:
dotdsdneutilitycoordination@dot.wi.gov

Utility Contractor Contact Name and 24-Hour Number:

NORTH CENTRAL REGION

Keith Rutkowski – Wis Rapids office
keith.rutkowski@dot.wi.gov
Fax: 715-421-7300

Traffic Control Provider and 24-Hour Number:

Terry Catlin – Rhinelander office
terry.catlin@dot.wi.gov
Fax: 715-365-5780

Construction Start Date:

NORTHWEST REGION

Heather Dresel
HeatherL.Dresel@dot.wi.gov
Fax: 715-836-2807 Eau Claire office

Construction Completion Date:

Completion Notice

Restoration is complete and ready for inspection. File notices within **10 calendar days** of restoration completion. Restore within **two weeks** from completion of utility construction.

Restoration Completion Date:

APPLICATION / PERMIT

TO CONSTRUCT, OPERATE and MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

s.66.0831, 84.08, 85.15, 86.07(2), 86.16, 182.017 and such other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address Carrie Lewis Superintendent Milwaukee Water Works 841 N. Broadway, Rm 409 Milwaukee, WI 53202		2. Work Start Date 3/17/2014	3. Work Finish Date* 5/31/2014	6. Location Description (1/4 section, section, town, range; provide plat map or location sketch) S.W.1/4 of S33; T6N; R22E S. Howell Av. (STH38) - E. College Av.	
9. Facility Type (Check all that apply): Size (Diameter, kV, pressure, # fibers, etc.) <input type="checkbox"/> Telecom: _____ <input type="checkbox"/> Electric: _____ <input type="checkbox"/> Gas/Oil: _____ <input checked="" type="checkbox"/> Water: 28ft of 6" hyd branch <input type="checkbox"/> San Sewer: _____ <input type="checkbox"/> _____: _____ <input type="checkbox"/> Transmission <input type="checkbox"/> Service: Std <input checked="" type="checkbox"/> Distribution <input type="checkbox"/> Service: Exp		4. Is the work due to a WisDOT highway project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		7. Work Location (Check/list all that apply) <input type="checkbox"/> Town: _____ <input type="checkbox"/> Village: _____ <input checked="" type="checkbox"/> City: Milwaukee <input checked="" type="checkbox"/> County: Milwaukee	
10. Facility Orientation (Check all that apply) <input type="checkbox"/> Crossing R/W <input type="checkbox"/> Parallel R/W <input checked="" type="checkbox"/> Underground <input type="checkbox"/> Overhead <input type="checkbox"/> Structure attachment		5. Applicant Work Order (If any) WT410130015		8. Highway (Check all that apply) <input checked="" type="checkbox"/> WIS 38 <input type="checkbox"/> US _____ <input type="checkbox"/> Interstate _____ <input type="checkbox"/> _____	
11. Work Types (Check all that apply) <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Improve/repair existing <input checked="" type="checkbox"/> Removal <input type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Discontinued, left in place <input type="checkbox"/> Joint installation		12. Proposed Work Methods (Check all that apply) <input checked="" type="checkbox"/> Trench <input type="checkbox"/> Plow <input type="checkbox"/> Casing <input type="checkbox"/> Rock blasting <input type="checkbox"/> Open cut pavement Bore: <input type="checkbox"/> Hydraulic (Auger/Jack) <input type="checkbox"/> Pneumatic (Mole) <input type="checkbox"/> Directional 1 (Manually tracked) <input type="checkbox"/> Directional 2 (Computer tracked) <input type="checkbox"/> Unknown (At this time) 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) Subsurface utility excavation: <input type="checkbox"/> Water jetting <input type="checkbox"/> Vacuum Tree/vegetation control: <input type="checkbox"/> Cut and/or trim <input type="checkbox"/> Mow <input type="checkbox"/> Chemically treat		13. Work Zone Description (Check all that apply) <input 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 checked="" type="checkbox"/> Shoulder/parking lane closure <input type="checkbox"/> Off shoulder: within clear zone <input type="checkbox"/> In R/W: outside clear zone <input type="checkbox"/> Near R/W line: within clear zone <input type="checkbox"/> Near R/W line: outside clear zone <input type="checkbox"/> Not applicable	
18. Utility Person Responsible for Construction Patrick W. Pauly, P.E. Mains Design Engineer		19. Utility or Project 24/7 Emergency Contact Patrick W. Pauly, P.E. Mains Design Engineer		15. Will any appurtenances be installed with the facility? (If yes, provide a description and/or specification of each item with this application.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
20. Is the utility a member of Diggers Hotline? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, provide line-locate number _____		21. Provide additional project work details, if needed (Continue on back or include separate page) Removal of existing hydrant to accommodate paving project 2060-15-71. minor excavation to install 6"cap and remove hydrant.		16. Trans 401 project designation? (For all Major projects, provide a formal erosion control plan with this application. See HMM 09-15-55) <input checked="" type="checkbox"/> Minor <input type="checkbox"/> Major	
22. If not employed by applicant, authorized representative's company name and address		23. Signature of Authorized Representative - If filled via computer, Brush Script font <i>Carrie M. Lewis</i> Superintendent of the Milwaukee Water Works (414) 286-2801 Carrie.M.Lewis@milwaukee.gov		17. Are any environmental permits, certifications or approvals required from other regulatory agencies? (If yes, provide a copy of each item or proof of agency coordination with this application.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

* NOTE: If the work described is not completed by the "Work Finish Date" specified, this permit is null and void, and the work shall not be completed unless authorized through a subsequent permit or an approved time extension. **ANY PERMIT ISSUED IS REVOCABLE.**

18. Utility Person Responsible for Construction Patrick W. Pauly, P.E. Mains Design Engineer	(Area Code) Telephone Number (414) 286-8167	19. Utility or Project 24/7 Emergency Contact Patrick W. Pauly, P.E. Mains Design Engineer	(Area Code) Telephone Number (414) 286-8167
20. Is the utility a member of Diggers Hotline? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, provide line-locate number _____		It is understood and agreed that approval is subject to applicant's full compliance with the pertinent statutes, as well as any rules and regulations of other jurisdictional agencies, which may be more restrictive, and with the Wisconsin Department of Transportation's Utility Accommodation Policy (UAP) , current edition. http://www.dot.wisconsin.gov/business/rules/property-uap.htm	
21. Provide additional project work details, if needed (Continue on back or include separate page) Removal of existing hydrant to accommodate paving project 2060-15-71. minor excavation to install 6"cap and remove hydrant.		<i>Carrie M. Lewis</i> 1/27/2014	
22. If not employed by applicant, authorized representative's company name and address		(Signature of Authorized Representative - If filled via computer, Brush Script font) Superintendent of the Milwaukee Water Works (Title and/or print name) (414) 286-2801 Carrie.M.Lewis@milwaukee.gov (Authorized Representative Telephone Number) (Authorized Representative E-mail Address)	



This permit does not transfer any land; nor give, grant or convey any land right, right in land, nor easement in WisDOT right-of-way. It is not assignable or transferrable. If ownership in a utility facility changes, WisDOT may void and supersede a permit and reissue it to the new owner upon request and with sufficient proof of ownership.

↓ For Wisconsin DOT Use Only ↓

<input checked="" type="checkbox"/> THE UTILITY SHALL NOTIFY WisDOT 3 DAYS BEFORE STARTING WORK AT: Region contact, title, office address, telephone number, and e-mail address Laura Longley SE Region Utility Leadworker 141 NW Barstow St. Waukesha, WI 53189 262-548-6425 laura.longley@dot.wi.gov	<input checked="" type="checkbox"/> REVIEW ALL SUPPLEMENTAL PERMIT PROVISIONS <input type="checkbox"/> REVISIONS MADE to DRAWINGS or OTHER PAGES <input 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"/>	Date Application Received 1/27/2014
		Date Application Completed 1/28/2014
		Date Application Denied
		Permit Issuance Date 1/28/2014
		Permit Extension Date
2060-15-71		Permit Number 40U-307-14

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

Additional Hydrant Work at S. Howell Av. (STH38) - W Grange Av. provided for informational purposes only does not impact State ROW.

Eastern northbound Lane to be affected by construction. Traffic control to be similar to Work Zone Safety Manual (2013), pages 32,39.

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 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.

Notwithstanding the foregoing, a private contractor or subcontractor with the State under Chapter 84 Wisconsin Statutes, that fails to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2007-2008), remains subject to the payment to the Applicant of the actual cost of repair of intentional or negligent damage by the contractor or subcontractor 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, and remains subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the contractor or subcontractor.

Notwithstanding the foregoing, if the State, or its officers, employees and agents, fail to comply with sections 66.0831 and 182.0175 Wisconsin Statutes (2007-2008), the State or its officers, employees and agents, remain subject to the payment to the Applicant of the actual cost of repair of willful and intentional damage by the State, or its officers, employees and agents, 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, and remain subject to payment to the Applicant for losses due to personal injury or death resulting from negligence by the State, its officers, employees and agents.

No indemnification of private contractors or subcontractors with the State under Chapter 84 Wisconsin Statutes, shall apply in the event of willful and intentional damage by such private contractors or subcontractors to the property, lines and facilities of the Applicant located on the highway right-of-way pursuant to this permit or any other permit issued by the State for the location of property, lines or facilities on highway right-of-way.



Start Work Notice:

1) Prior to the start of utility construction, the utility operator **MUST** forward a copy of the attached utility start work notice to the Wisconsin Department of Transportation (WisDOT) regional utility permit coordinator. Failure to do so will result in revocation of this permit.



Permit Requirements:

2) There shall be no deviations from the approved construction plans covered under this permit without additional written authorization from the WisDOT utility permit coordinator.

3) A complete copy of the permit WisDOT issues a utility for its proposed work shall be in the possession of the utility's work force, consultant, contractor or subcontractor at all times when work is being performed within the right-of-way (R/W). This includes a copy of WisDOT's approval for a service connection under an Expedited Service Connection Permit (ESCP). Electronic copies are acceptable.

4) Failure to maintain a permit on the work site shall cause this permit to become null and void. A subsequent permit will be required to complete the previously permitted work.

5) This permit is valid only for utility construction on WisDOT controlled highway right-of-way. Permits from other federal, state, county and local agencies may be required.

6) Utility construction shall not interfere with any WisDOT construction project or maintenance operation.

7) Underground facility locates shall be done prior to construction.



Work Time Restrictions:

8) Work on any state trunk highway shall only occur on weekdays between the hours of XXX and XXX.



Work Zone Traffic Control:

9) Work Zone Traffic Control (WZTC) shall be in accordance with the Wisconsin Manual of Uniform Traffic Control Devices (WMUTCD) chapter VI.

10) Traffic control shall be maintained throughout construction and shall be altered at anytime upon the request of WisDOT, the county or local highway department or any law enforcement agency.

11) Flaggers shall be used whenever conditions warrant.

12) At the end of each work day, construction signage shall be knocked down or removed. Turning sign faces away from traffic is no longer allowed.

13) Signage in place longer than 7 continuous calendar days shall be post mounted per the attached detail.



Wisconsin Lane Closure System (LCS) Notification:

14) Lane, shoulder, ramp closures or encroachments on XXX XX require lane closure notification to the southeast region traffic engineer. The LCS request shall be sent to WisDOT for review and approval **14 calendar days** prior to the need for a freeway closure, or **3 business days** prior to the need for a non-freeway closure.

15) The utility or their contractor shall set up an account and request lane closures at the following link: <http://transportal.cee.wisc.edu/closures/>



I-94 North/South Freeway and ZOO Interchange Projects Lane Closures and Restrictions:

16) Prior to the start of construction all lane closures and restrictions shall also be coordinated with WisDOT Traffic Coordinator Stephanie Skowronski at 414-750-1397 or Stephanie.Skowronski@dot.wi.gov



WisDOT Holiday Shutdowns:

17) No utility work with the exception of emergency work shall be performed during the following holidays. All work shall stop prior to and resume after the holidays on the following dates and times. All unnecessary traffic control shall be knocked down or moved outside the clear zone:

Labor Day-August 30, 2013-12pm through September 3, 2013-6am
Thanksgiving-November 27, 2013-12pm through December 2, 2013-6am
Christmas-December 23, 2013-12pm through December 26, 2013-6am
New Years-December 30, 2013-12pm through January 2, 2014-6am
Martin Luther King, Jr. Day-January 17, 2014-12pm through January 21, 2014-6am
Memorial Day-May 23, 2014-12pm through May 27, 2014-6am
Independence Day-July 3, 2014-12pm through July 7, 2014-6am

Wisconsin State Fair:

18) No utility work shall take place on XXX XX during Wisconsin State Fair from August 1, 2013 through August 11, 2013.

Survey Monuments:

19) **NOTE:** The proposed utility work is at or near a WisDOT survey monument. Prior to any construction activity the utility operator shall contact WisDOT at 1-888-568-2852 or geodetic@dot.wi.gov

Freeway System Entry Restrictions:

20) There shall be no entry to the freeway system right-of-way inside the security fences towards the surface of the traveled way for any reason.

Utility Installation at Risk:

21) The proposed facility is being installed at the risk & expense of the facility owner/operator. The work authorized in this permit is within the limits of a future WisDOT improvement project. If the proposed facility will require future relocation and/or adjustment, it will be at the facility owners' expense.

Erosion Control:

22) Prior to the start of construction, all applicable erosion control devices including inlet protection shall be placed, inspected, monitored and maintained on a daily basis by the utility operator or their contractor.

23) Spoil removed from excavations shall be placed in an upland area. The perimeter of each spoil pile shall be wrapped with silt fence or other devices to prevent soil loss or soil run off.

24) Whenever construction operations require dewatering, the displaced water shall be pumped through filter fabric bags or temporary settling basins constructed prior to discharge from the work site.

25) Inlet protection shall be removed once construction operations are complete and the work area is stabilized.

26) Silt fence or other erosion control devices shall be removed after substantial vegetative growth has occurred.

Tree Trimming & Removal Operations Ash Species:

27) Prior to the cutting, pruning or trimming of any ash trees, the utility shall consult the State of Wisconsin's Emerald Ash Borer (EAB) website: <http://www.emeraldashborer.wi.gov/>

28) The utility and their contractor shall follow the rules and regulations as established by the Wisconsin



Department of Agriculture, Trade and Consumer Protection (DATCP).

29) The utility shall contact DATCP directly with any specific questions regarding their work and disposition of ash species while working on WISDOT right of ways.

Tree Trimming & Removal Operations Non- Ash Species:

30) Brush, logs & debris from tree trimming & removal from non-ash species shall be hauled off the work site during and at the end of each work day or chipped.

31) Wood chips from non-ash species shall not be stockpiled. Any non-ash wood chips shall be spread out and dispersed accordingly to match the existing grade.

32) Stumps from non-ash species shall be cut flush to the existing grade.

Existing Pavements & Right-of-Way:

33) Existing inlets, drainage structures, drain tiles or other drainage facilities damaged during construction shall be repaired or replaced in kind. The contractor shall notify WisDOT of any damaged facilities.

34) Equipment and material shall be moved outside the clear zone at the end of each work day.

35) Open excavations shall be plated or protected by other means during and at the end of each work day to ensure public safety. Energy absorbing terminals (EATS) or other crash protection devices shall be used with concrete barrier walls.

36) Existing highway pavements shall be kept and swept clean of mud and debris from construction and trucking operations during and at the end of each work day.

Directional Drill, Bore & Jack, Plow & Trenching Operations:

37) All road crossings shall be bored or directionally drilled. Open cutting of any pavements is strictly prohibited and not authorized under this permit.

38) Manual tracking or guiding of directional drill heads from the pavement surface of the highway for utility crossings is strictly prohibited.

Subsurface Utility Exploration (S.U.E.) Operations:

39) If water jetting is permitted, the utility or their contractor shall furnish to WisDOT digital pictures taken before and after the S.U.E. excavating from the same camera angle of the roadway section. Vacuum excavations need not pictures.

40) The pavement area for removal shall be cored. Saw cutting is prohibited. The core hole over the existing utility in pavement areas shall be no larger than 12" diameter inside the wheel paths and no larger than 16" outside the wheel paths.

41) The areas specified on the construction plan where potential conflicts exists with other existing utilities, shall be the only areas where S.U.E. excavating will be allowed to be completed.

42) Flowable fill or slurry backfill per the attached detail shall be used in zones 1 & 2 to restore the voids left behind from the S.U.E. excavating.

43) The pavement core shall be fastened back in place with utilibond or an equivalent epoxy type adhesive. The pavement core shall be placed flush with the existing pavements.

44) The utility operator shall inspect and monitor the areas were S.U.E was performed on a routine basis.



45) WisDOT will require pavement removal and replacement at the utility operator's expense in areas where S.U.E. was performed and subsequent pavement failure occurs. WisDOT will determine final limits of pavement removal and replacement.

Aerial Construction Operations:

46) A minimum of three work days in advance, the contractor shall coordinate rolling closures for aerial crossings with the respective county sheriff's office and local law enforcement agencies.

47) The rolling closures for the purpose of detaching or attaching an overhead cable crossing the highway shall be completed during off peak traffic hours. The rolling closure shall be completed under dry pavement conditions.

48) The utility or their contractor shall be responsible for all costs associated with the protection of traffic.

49) Anchors and guy cables shall be installed in accordance with clear zone requirements outlined in the WisDOT facilities development manual (FDM) chapter 11-15-1

50) Anchors and guy cables shall be installed in accordance with clear zone requirements outlined in the WisDOT facilities development manual (FDM) chapter 11-45-10 bicycle facilities.

Further details can be viewed in the WisDOT bicycle facilities design handbook at:

<http://www.dot.wisconsin.gov/projects/state/docs/bike-facility.pdf>

WisDOT Improvement Projects Coordination:

51) The utility work is within the limits of a WisDOT construction project. Coordination must be done with WisDOT project manager XXX to ensure closure conflicts do not arise. Contact XXX at XXX-XXX-XXXX or XXX.XXX@dot.wi.gov

52) The utility work is within the limits of a WisDOT construction project. The utility shall attend the WisDOT weekly construction meeting. Contact XXX for time and location.

Soft Surface Restoration:

53) Temporary soft restoration to stabilize the work site shall be completed in a timely manner during and immediately following utility construction. Excess spoil shall be hauled off the work site.

54) Final soft restoration shall consist of placing a minimum 4 " of topsoil, WisDOT spec seed, and fertilizer and erosion mat.

55) The contractor shall notify WisDOT as soon as final restoration has been completed and the work site is ready for inspection.

56) The utility operator or their contractor shall coordinate temporary and final soft restoration and restoration limits with the WisDOT project manager or the WisDOT project leader on the work site.

Soft Surface Restoration- Late Season :

57) For late season seeding and restoration after October 1st. See the attached document.

Sidewalk Removal/ Replacement:

58) Sidewalk removal, backfill requirements and sidewalk replacement shall be coordinated in advance with the respective local municipality (owner).

Open Cut Pavement:



59) Existing pavements specifically authorized for removal to accommodate placement of utility facilities shall be **SAW CUT** full depth prior to the use of pavement breaking equipment.

60) Pavement cuts shall not be completed from November 1st through April 1st. Pavement restoration shall occur before November 1st or before materials become unavailable, whichever occurs 1st.

61) Pavement removed, shall be hauled off the work site during and at the end of each work day.

62) Temporary sheeting and shoring shall be used as necessary to prevent cave-ins.

Slurry Backfill:

63) Slurry backfill per the attached detail shall be the required backfill for excavations in zones 1 & 2.

Granular Backfill:

64) The use of granular backfill in lieu of slurry backfill for excavations within highway pavement areas and shoulder shall be pre-approved or authorized in advance by the WisDOT regional utility permit coordinator.

65) Granular material, shall be placed in lifts or layers 12" or less each in depth, and mechanically compacted to the density of the adjacent and undisturbed material.

66) Water jetting and use of excess water to facilitate mechanical compaction is strictly prohibited.

Concrete Pavement Restoration:

67) Concrete pavement restoration shall consist of replacing in kind the concrete removed with high early strength concrete mix reinforced per the attached details.

68) Pavement restoration shall occur before November 1st or before materials become unavailable, whichever occurs 1st.

69) Concrete pavement shall be replaced from joint to joint. The minimum longitudinal length is 6 feet.

70) Concrete pavement without a bituminous asphalt overlay shall have a tine or heavily broomed finish.

71) Curb and gutter damaged or removed during construction operations shall be replaced in kind per the attached detail.

Bituminous Asphalt Pavement Restoration:

72) Bituminous asphalt pavement restoration shall consist of replacing in kind the bituminous asphalt overlay removed to match the existing bituminous asphalt thickness.

73) Pavement restoration shall occur before November 1st or before materials become unavailable, whichever occurs 1st.

74) Bituminous asphalt shall be replaced from seam to seam and overlay the longitudinal length of the concrete patch. The minimum longitudinal length is 6 feet.

Gravel Shoulders:

75) Gravel shoulder material removed or disturbed due to construction operations shall be replaced in kind, graded and shaped to match the existing gravel shoulders.

Epoxy Pavement Markings:

76) Epoxy pavement markings removed shall be replaced in kind with an epoxy based pavement marking



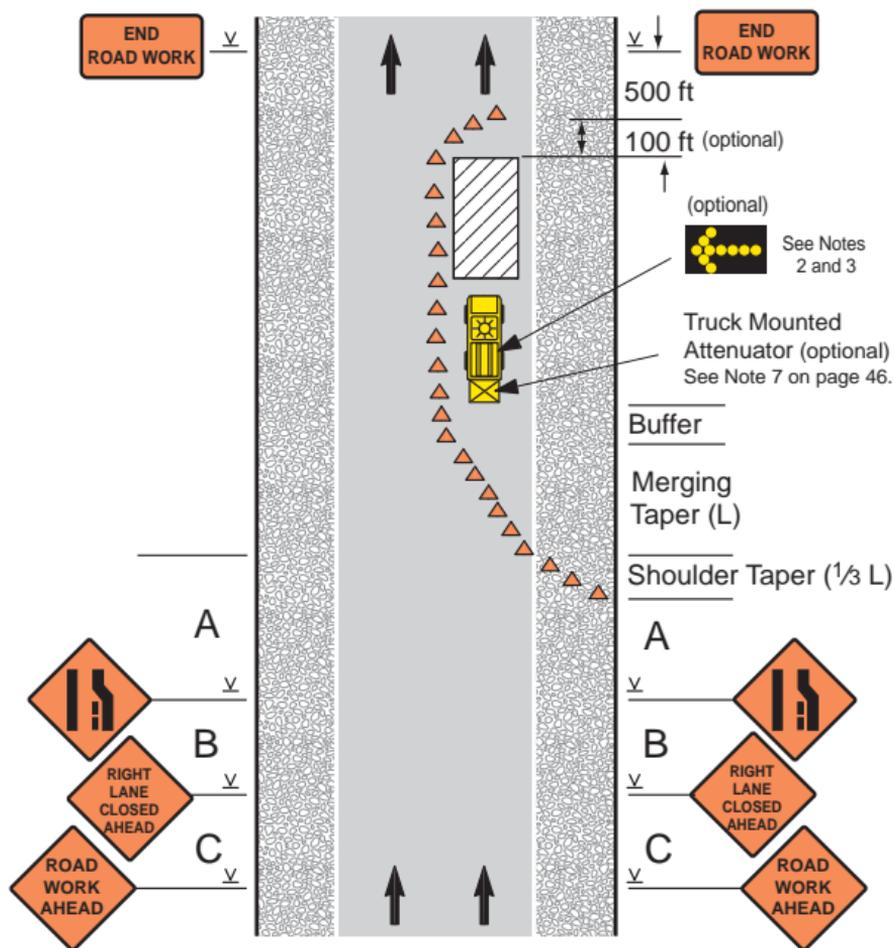
paint along with reflective bead materials.

Temporary Pavement Markings:

77) Temporary pavement markings when authorized by the WisDOT regional utility permit coordinator in lieu of epoxy pavement markings that are removed shall be replaced in kind with a latex based or equivalent pavement marking paint along with reflective beads.

78) Temporary pavement markings shall have a 2 year minimum service life.

Lane Closure on Divided Roadway

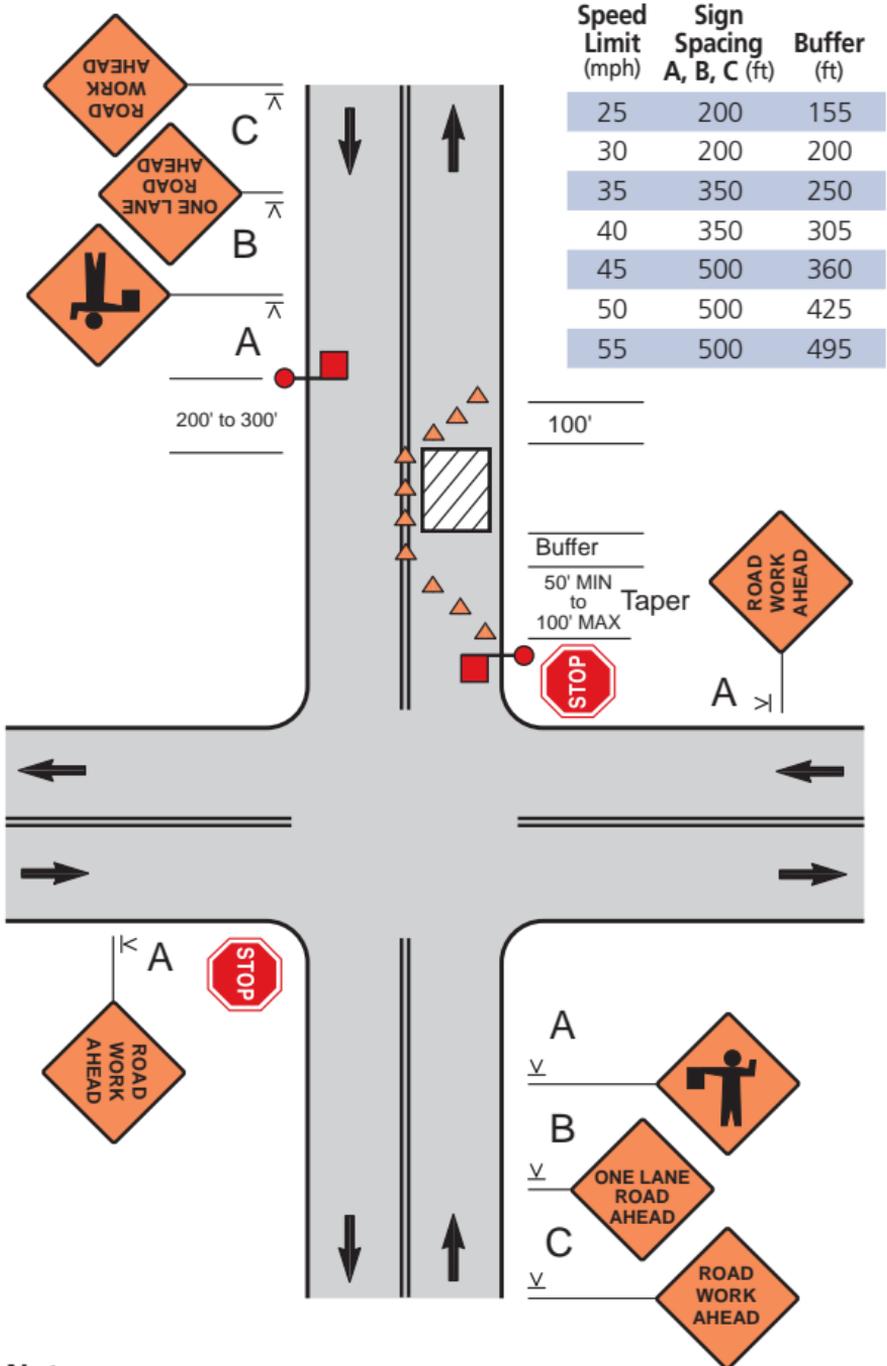


Notes

- When a side road intersects the roadway within the work zone, additional devices shall be erected to channelize traffic to/from the side road, and a ROAD WORK AHEAD sign shall be placed on each side road approach.
- An arrow board shall be used when a freeway lane is closed. When more than one freeway lane is closed, a separate arrow board shall be used for each lane closed.
- Except for freeways, an arrow board is optional based on traffic volume, speed, and visibility. Generally, it is a good practice where speeds are 35 mph or greater. When used, it should be placed near the beginning of the taper or on a vehicle in the work area.
- If an arrow board is not used, a Large Arrow sign or directional indicator barricades in the taper can be used to provide added guidance.

Speed Limit (mph)	Sign Spacing (ft)			Merging Taper (ft) for 12' lane	Buffer (ft)
	A	B	C		
30	200	200	200	180	200
35	350	350	350	245	250
40	350	350	350	320	305
45	500	500	500	540	360
50	1000	1500	2640	600	425
55	1000	1500	2640	660	495
60	1000	1500	2640	720	570
65	1000	1500	2640	780	645

Lane Closure Beyond an Intersection (Work Area on the Through Road)



Notes

- Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 56.



Division of Transportation System Development
Southeast Regional Office
141 N.W. Barstow Street
P.O. Box 798
Waukesha, WI 53187-0798

Scott Walker, Governor
Mark Gottlieb, P.E., Secretary
Internet: www.dot.wisconsin.gov

Telephone: (262) 548-5903
Facsimile (FAX): (262) 548-6891
E-Mail: waukesha.dtd@dot.state.wi.us

September 24, 2013

MR. JEFFREY POLENSKE
MILWAUKEE, CITY OF
841 N BROADWAY RM 701
MILWAUKEE, WI 53202

**Work Plan Approval & Start
Work Notice**

SUBJECT: PROJECT I.D.: 2060-15-71
HOWELL AVENUE, CITY OF OAK CREEK
OAKWOOD RD TO GRANGE AVE
STH-038
MILWAUKEE COUNTY

Dear Mr. Polenske:

This letter is to advise you that we have received your proposed Work Plan for City of Milwaukee – Water dated 8/22/2013 for the subject project and you are hereby authorized to proceed with your adjustment and/or relocation work.

Please keep in mind that this approval constitutes only DOT acceptance of your work plan and your start work notice. You may need to obtain approvals, permits, or easements from other parties prior to relocating any utility facilities within or outside the project corridor. You will need to coordinate any other approvals needed directly with the affected parties.

Please contact me at (262) 548-5901 to inform me of the date you plan to start construction and when you have completed the construction. If you have any questions, feel free to call me.

Sincerely,

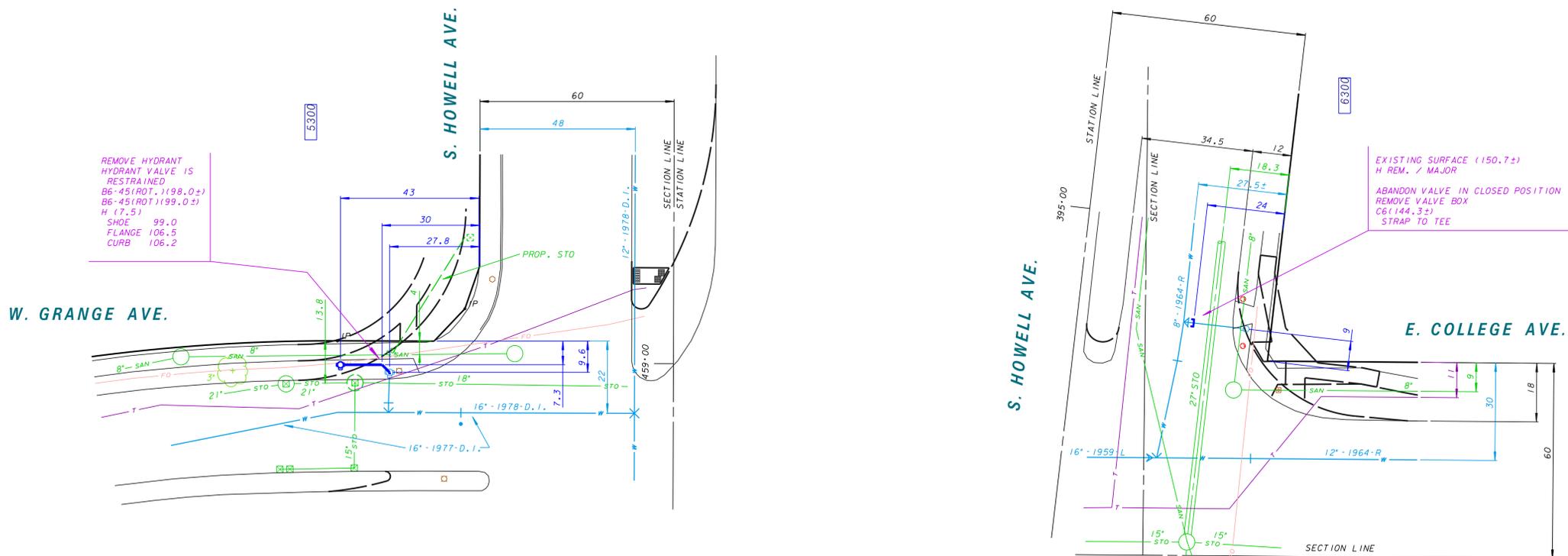
Gary C. Dahms

Gary Dahms
Southeast Region Utility Coordinator
gary.dahms@dot.state.wi.us

ESTIMATE OF QUANTITIES

FOR BIDDING

- FURNISH PIPE AND INSTALL
- (DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)
- 17 FT. - 6" HYDRANT BRANCH
- INSTALL
- 1 - HYDRANT
- REMOVE
- 1 - HYDRANT / MAJOR
- PERMANENT PAVEMENT
- 6 SQ. YDS. - 3" ASPHALTIC CONCRETE
- 6 SQ. YDS. - 9" CONCRETE BASE
- FURNISH AND INSTALL DOWEL BARS
- 16 BARS
- CURB AND GUTTER
- 12 LIN. FT. - CONCRETE
- WALK
- 30 SQ. FT. - CONCRETE
- BARRICADES AND TRAFFIC CONTROL
- LUMP SUM
- SAWCUTTING
- 30 LIN. FT. - IN ASPHALT ON CONCRETE BASE (FULL DEPTH)
- AGGREGATE SLURRY BACKFILL
- 5 CU. YDS.
- FINISHING OF ROADWAY
- LUMP SUM
- FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL
- LUMP SUM
- 35 CU. YDS. EXCESS EXCAVATED MATERIAL



FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED BY THE CITY.

- 2 - B6-45
- 1 - C6
- 1 - H (7.5)

PAVEMENT TYPE

S. HOWELL AVE. IS ON 2014 STATE PAVING PROGRAM STATE PROJECT D. 2060-15-71 CURRENT LET DATE APRIL 8, 2014.

EXISTING PAVEMENT IN

INTERSECTION - S. HOWELL AVE. & E. COLLEGE AVE.
3" ASPHALTIC CONCRETE (1992) ON 9" CONCRETE (1964)

W. GRANGE AVE. - S. HOWELL AVE. TO S. 3RD ST.
3" ASPHALTIC CONCRETE (1992) ON 9" CONCRETE (1978)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANTS

2 - HYDRANT

BENCHMARKS

STANDARD BENCH MARK 58-03 1/4 SECTION 641
LOC. 1 S. HOWELL AVE. AND W. EDGERTON AV.
DESC. 1 IN CENTER STRIP SOUTH OF W. EDGERTON AV., 13.6' EAST OF WEST CURB AND 33.3' SOUTH OF NORTH END OF MEDIAN CURB (60' SOUTH OF 1/4 SECTION LINE).
ELEV. 1 93.584

STANDARD BENCH MARK 63-11 1/4 SECTIONS 672, 673
LOC. 1 S. HOWELL AV. TUNNEL, SOUTH OF W. GRANGE AV., (NORTH END)
DESC. 1 NORTH END, TOP OF NORTHEAST CORNER PARAPET WALL, STANDARD PLATE.
ELEV. 1 117.950

STANDARD BENCH MARK 68-04 1/4 SECTIONS 686, 687
LOC. 1 W. COLLEGE AV. AND S. HOWELL AV.
DESC. 1 IN MEDIAN ISLAND ON S. HOWELL AV., NORTH OF W. COLLEGE AV., 39.7' NORTH OF ISLAND TIP AND 3.2' EAST OF ISLAND CURB.
ELEV. 1 151.209

PLAN LINE & UTILITY LEGEND		
GAS	o	SANITARY SEWER
ELECTRIC	E	STORM SEWER
TELEPHONE	T	COMBINED SEWER
CABLE TELEVISION	TV	WATER MAIN
FIBER OPTICS	FO	WATER SERVICE
PROPOSED UTILITY		PRESSURE DISTRICT
POWER POLES	o	CONCRETE
	□	ALUMINUM
	⊙	WOOD
WATER MAIN VALVES	+	GATE
	+	BUTTERFLY
	W	SERVICE
UTILITIES	⊠	TRAFFIC SIGNAL
	⊠	TRAFFIC CONTROL BOX
	o	GAS VALVE
HYDRANTS	o	1 NOZZLE
	o	3 NOZZLE

GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS" DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION" WHICH IS ATTACHED AND MADE PART OF THESE WATER MAIN PLANS AND CONTRACT DOCUMENTS.

THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM.

THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1. THE CONTRACTOR SHALL FURNISH TEMPORARY TEST CAPS AND PLUGS. THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

VALVE BOX BASE ADAPTERS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTERS, "ADAPTOR 11" AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTER SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTER SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

BACKFILL AND BEDDING MATERIAL

THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

HYDRANTS

THE CONTRACTOR SHALL RETURN ALL ABANDONED HYDRANTS TO THE DPW FIELD HEADQUARTERS - INFRASTRUCTURE, OPERATIONS, WATER WORKS, CONTACT MR. BEN GLATZEL AT 414-708-2839 FOR ADDITIONAL INFORMATION.

PROJECT IDENTIFICATION

THE CONTRACTOR SHALL POST CITY OF MILWAUKEE PROJECT IDENTIFICATION ("BLUE") SIGNS AS DIRECTED ON EACH PROJECT IN THIS CONTRACT. THE CITY OF MILWAUKEE CONSTRUCTION SECTION WILL PROVIDE BLANK SIGNS FOR THE CONTRACTOR TO FILL IN CONTACT INFORMATION AND POST. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TRAFFIC CONTROL AND BARRICADING.

C.O.S. NOTE

TAPS REQUIRED FOR RE-CONNECTING SERVICES SHALL BE MADE BY THE CONTRACTOR. TAPS SHALL BE MADE AND CORPORATION STOPS INSTALLED PRIOR TO PRESSURE TEST. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.

NO LEAD BRASS NOTE

IN ACCORDANCE WITH SENATE BILL 3874, EFFECTIVE AS OF JANUARY 4, 2014, ALL BRASS PRODUCTS USED TO COMPLETE THE WATER MAIN PROJECT, SHALL BE "LEAD FREE".

HYDRANT PERMITS

A \$65.00 HYDRANT PERMIT/USE FEE WILL BE PART OF THE HYDRANT USE PERMIT. THIS FEE IS PER HYDRANT PER WEEK.

IT IS THE INTENTION OF THE CITY OF MILWAUKEE TO METER AND RECORD ALL WATER USE ON THIS CONTRACT. THE CONTRACTOR MUST OBTAIN A HYDRANT PERMIT FOR THIS CONTRACT WHICH INCLUDES THE REQUIREMENT OF A METER TO MEASURE WATER USAGE. THIS PERMIT CAN BE OBTAINED FROM THE CITY'S DEVELOPMENT CENTER LOCATED AT 809 N. BROADWAY.

IF IT IS FOUND THAT THE CONTRACTOR IS NOT FOLLOWING THE STANDARD HYDRANT PERMIT USE RULES THE CITY OF MILWAUKEE WILL TAKE NORMAL ENFORCEMENT ACTION.

MILWAUKEE WATER WORKS ONLY PROJECTS ISSUED THROUGH DPW

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE \$65.00 HYDRANT PERMIT/USE FEE WILL BE WAIVED BY THE UTILITY. THE CONTRACTOR WILL NOT BE CHARGED FOR THE VOLUME OF WATER USED.

QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MWW METER SERVICES DISPATCHER, 414-286-2865
MWW METER SERVICES, 414-286-8010

JOINT RESTRAINT OPTION

DUCTILE IRON PIPE AND FITTINGS (EXCEPT HYDRANT BRANCHES) MAY BE RESTRAINED USING FIELDLOK OR MJ FIELDLOK RESTRAINT. BUTTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT.

CONTRACTOR SHALL NOTIFY MWW 414-286-8167 IF FIELD LOK RESTRAINT WILL BE USED PRIOR TO THE REQUIRED EROSION CONTROL SUBMITTAL. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES INCLUDED IN BID DOCUMENTS.

RESIDENT / BUSINESS NOTIFICATION

WITHIN TEN (10) BUSINESS DAYS OF THE AWARD OF THIS CONTRACT, THE CONTRACTOR SHALL MAIL A NOTICE OF THE PROJECT TO THE CITY OF MILWAUKEE CONSTRUCTION SECTION AT 861 N. BROADWAY, ROOM 710, MILWAUKEE, WI 53202 FOR REVIEW AND APPROVAL. WITHIN FIVE (5) BUSINESS DAYS OF APPROVAL, THE CONTRACTOR SHALL MAIL THE PROJECT NOTICE TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES AND INCLUDE ANY INFORMATION DEEMED NECESSARY FOR THE SUCCESSFUL PERFORMANCE OF THE CONTRACT.

IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A MILWAUKEE WATER WORKS SAMPLE NOTICE IS INCLUDED IN THE CONTRACT DOCUMENTS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR BARRICADES AND TRAFFIC CONTROL. CONTRACT WORK SHALL NOT START PRIOR TO COMPLETING THE NOTICE REQUIREMENT. ANY DELAY IN CONTRACT COMPLETION AS A RESULT OF NON-COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC PROVISIONS

MAINTAIN TWO WAY TRAFFIC.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

PLEASE CONTACT TRAFFIC ENGINEERING AT 286-3632 FOR THE INSTALLATION OF TEMPORARY "NO PARKING" SIGNS OR IF THERE ARE ANY QUESTIONS CONCERNING THESE COMMENTS.

ANY PERSON WORKING IN THE PUBLIC WAY SHALL COMPLY WITH THE CITY OF MILWAUKEE, DEPARTMENT OF PUBLIC WORKS BOOKLET, "TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK" AND PART VI OF THE STATE OF WISCONSIN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

STREET LIGHTING NOTE

STREET LIGHTING HAS PIPES AND CABLES CROSSING WITHIN THE PROJECT LIMITS. THESE PIPES AND CABLES SHALL BE SUPPORTED IF OPEN CUT TRENCHING IS USED. DAMAGES SHALL BE REPORTED TO THE STREET LIGHTING SHOP AT 414-286-3425.

IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE STREET LIGHTING EQUIPMENT, THE CONTRACTOR SHALL CONTACT ENG-KIE LEE IN ENGINEERING AT 414-286-2174 FOR NECESSARY ALTERATIONS.

TRAFFIC SIGNAL NOTE

IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CONTACT SIGNAL ENGINEERING AT 414-286-5162 FOR NECESSARY ALTERATIONS. A FIVE WORKING DAY NOTICE IS REQUIRED. REPORT DAMAGE TO THE SIGNAL SHOP AT 414-286-3687.

STATE PERMIT

S. HOWELL AVE. IS STATE HIGHWAY "38", WHICH IS MAINTAINED BY THE STATE OF WISCONSIN. A PERMIT TO EXCAVATE FROM THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION HAS BEEN OBTAINED BY THE CITY OF MILWAUKEE. WISDOT UTILITY PERMIT NO. 40U-307-14 IS INCLUDED IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS, CONDITION OF ISSUANCE, AND ANY SPECIAL ADVISORY AS STIPULATED IN THE PERMIT AS A PART OF THIS CONTRACT. ALL COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL WATER MAIN.

THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DISTRICT OFFICE AT 1-800-242-8511 NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO THE START OF THE PERMITTED WORK TO ARRANGE FOR A DISTRICT REPRESENTATIVE TO LOCATE AND MARK THE EXISTING TRAFFIC SIGNAL AND/OR HIGHWAY LIGHTING LINES. NO WORK UNDER THIS PERMIT SHALL BE ACCOMPLISHED PRIOR TO THE DISTRICT REPRESENTATIVE'S ARRIVAL.

SCHEDULE

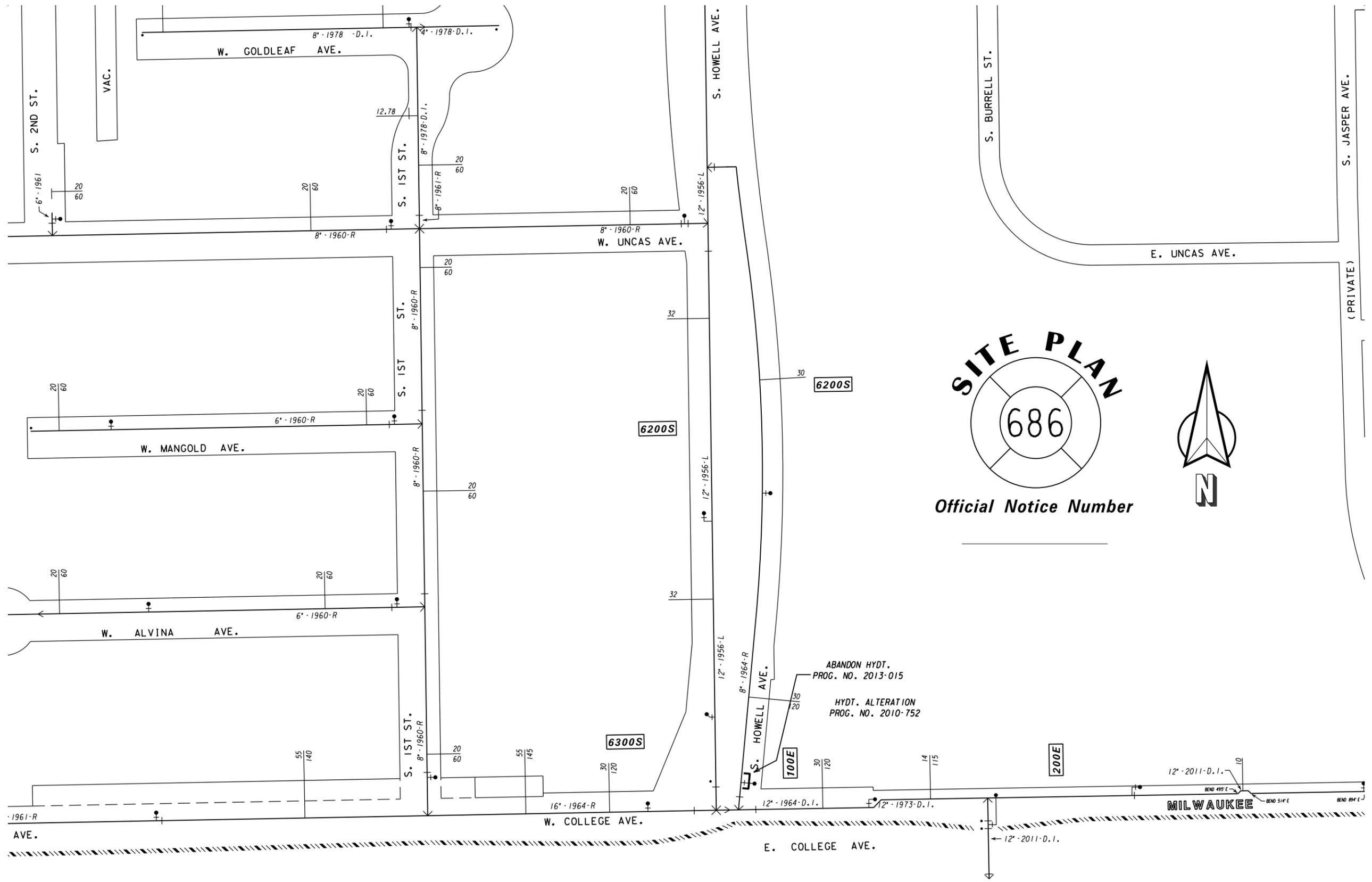
COORDINATE WORK AS NECESSARY WITH PAVING CONTRACTORS ON S. HOWELL AVE (2060-15-71), S. 27TH ST (2265-08-70), AND N. LOVERS LANE (2030-09-70). COORDINATE HYDRANT ALTERATION IN S. 27TH ST AT STAGE 20 WITH PAVING CONTRACTOR. ALL OTHER WORK ON THIS CONTRACT, INCLUDING PAVEMENT RESTORATION, SHALL BE COMPLETED BY MAY 23, 2014.

- EACH PROJECT IN THIS CONTRACT IS ASSIGNED AN ALLOWABLE NUMBER OF PROJECT WORKING DAYS. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR (4) HOURS TOWARDS COMPLETION OF THE PROJECT. FOLLOWING IS A LIST OF WATER MAIN INSTALLATION PROJECTS INCLUDED IN THIS CONTRACT AND THE ALLOWABLE PROJECT WORKING DAYS FOR EACH:
- S. HOWELL AVE. FROM W. GRANGE AVE. TO W. COLLEGE AVE.,
PLAN FILE NO. 2014014 - 5 WORKING DAYS.
- S. 27TH ST. FROM 930FT N/O W. OKLAHOMA AVE. TO W. HOWARD AVE.,
PLAN FILE NO. 2014015 - 8 WORKING DAYS.
- S. 60TH ST. FROM W. ALLERTON AVE. TO 1236FT S/O W. LAYTON AVE.,
PLAN FILE NO. 2014016 - 7 WORKING DAYS.
- N. LOVERS LANE RD. AT W. HAMPTON AVE.,
PLAN FILE NO. 2014017 - 5 WORKING DAYS.
- N. 9TH ST. AT W. STATE ST.,
PLAN FILE NO. 2014017 - 6 WORKING DAYS.



Milwaukee Water Works Department of Public Works		
WATER MAIN		
S. HOWELL AVE.		
W. GRANGE AVE.		
W. COLLEGE AVE.		
IN FROM TO	APPROVED _____ DATE _____ MAINS DESIGN ENGINEER	
SCALE 1"=20' 14 SEC. NO. 641 686 PLAN DATE 6-13-13 DRAWN BY A.P.J. CHECKED BY K.S.R. SURVEY BY CONST. SECTION	CHIEF DESIGN ENGINEER SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
PROGRAM NO. 2013-015 PROJECT NO. WT410130015	CONTRACT NO. OFFICIAL NOTICE NO. 24-1-2014	C.C. FILE NO. 130363 DATE ADOPED 7-23-13
SHEET NO. 1 OF 1 PLAN FILE NO. 2014014		

NO.	BY	REVISION	DATE



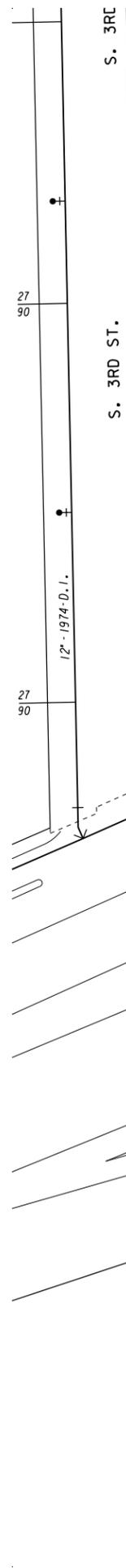
SITE PLAN
686

Official Notice Number





Official Notice Number



HYDRANT ALTER.
PROG. NO. 2013-015

5300S

5300S

5400S

5500S

100E

