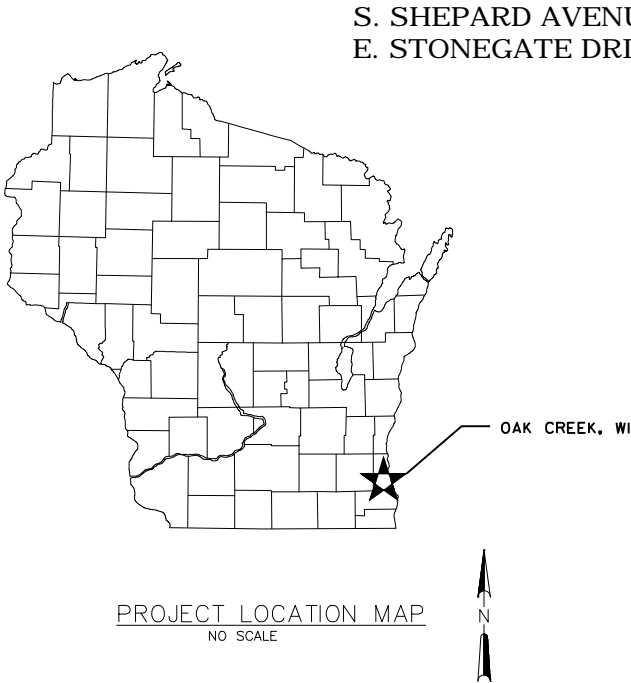


2017 WATER PROJECTS - VALVE CUT-INS
FOR THE
OAK CREEK WATER AND SEWER UTILITY
MILWAUKEE COUNTY, WISCONSIN
MAY, 2017

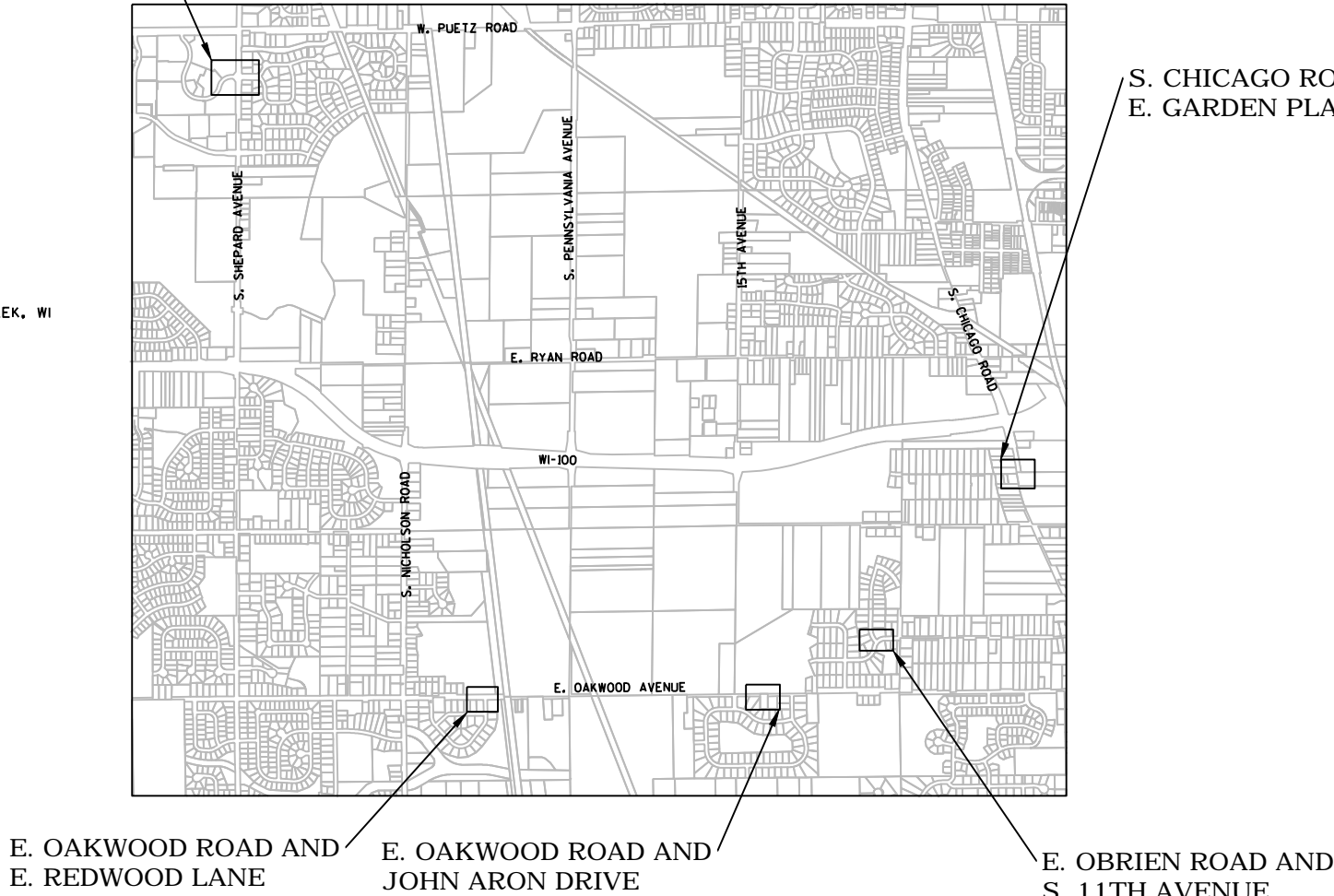


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Suite 350
Milwaukee, WI 53202
414-271-0771
414-271-8312 fax
www.strand.com

PROJECT No. 17102



DRAWING TITLE	SHEET NO.
TITLE SHEET	1
STANDARD SYMBOLS, GENERAL NOTES, AND DETAIL DRAWINGS	2
EROSION CONTROL NOTES AND DETAILS	3
S. SHEPARD AVENUE AND E. STONEGATE DRIVE PLAN AND PROFILE	4
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E. OAKWOOD ROAD AND JOHN ARON DRIVE PLAN	8



This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer Date

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.



CITY OF OAK CREEK, WISCONSIN

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B.W.	05/25/17	E.Y.	05/25/17	M.F.	05/25/17

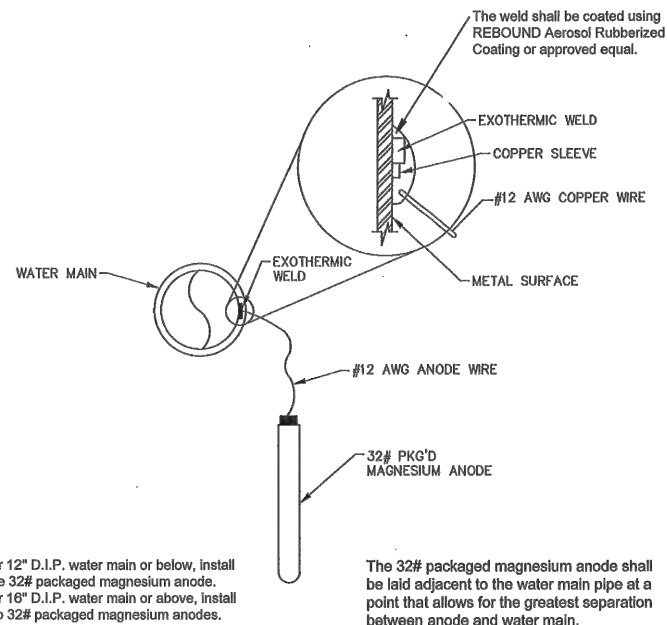
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APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN HOR. N/A	1
PROFILE HOR. N/A	OF
VER. N/A	8

REVISION BY DATE APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 17102-1C-2334

	TEMPORARY EASEMENT		PAVED ROAD
	PROPERTY LINE AND/OR RIGHT OF WAY		EXISTING CULVERT
	BENCH MARK		UNDERGROUND CONFLICT
	PROPERTY STAKE		HIGH VOLTAGE UTILITY
	IRON PIPE		FORCE MAIN
	INLET		WATER MAIN
	CURB WATER BOX		STORM SEWER
	ROAD SIGN		SANITARY SEWER
	PRIVATE WELL		ABANDON STORM SEWER
	EXISTING UTILITY POLE		ABANDON SANITARY SEWER
	BURIED TELEPHONE CABLE PEDESTAL SIGN		EXISTING 5" SANITARY SEWER MANHOLE
	LIGHT POLE		TELEPHONE OR TV CABLE
	MAIL BOX		FIBER OPTIC CABLE
	OBJECTS TO BE REMOVED		GAS MAIN
	EXISTING DECIDUOUS TREE		UNDERGROUND ELECTRIC CABLE
	EXISTING CONIFEROUS TREE		ORIGINAL GROUND IN PROFILE
	WETLAND AREA		FENCE
	CULVERT PIPE CHECK		GUARD RAIL
	STRAW BALE DITCH CHECK		SILT FENCE
			CONTROL POINT
			GUY WIRE & ANCHOR



OAK CREEK WATER & SEWER UTILITY
DATE: 2/11/2014
SCALE: N.T.S.

3. CASEMENT, EXISTING UTILITIES, PROPERTY LINES, AND R.O.W. LINES SHOWN ARE APPROXIMATE. NOT ALL UTILITY MAINS AND SERVICES ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE FOR UTILITY LOCATES AND SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF THE UTILITY MAINS AND SERVICES DURING CONSTRUCTION.
2. THE LOCATION OF AND TYPE OF FITTINGS SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE INSTALLATION OF THE WATER MAIN. THE COST FOR ALL FITTINGS AND RESTRAINED JOINTS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR THE WATER MAIN.
3. ALL INLETS SHALL HAVE TYPE "D" INLET PROTECTION. INLET PROTECTION SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR MEETING THE REQUIREMENTS OF CONSTRUCTION STORM WATER DISCHARGE PERMIT.
4. CONTRACTOR SHALL RESTRAIN ALL FITTINGS. SEE SPECIFICATIONS.
5. IF ABANDONED WATER MAIN IS IN CONFLICT WITH UTILITIES IT SHALL BE REMOVED.
6. REPLACE ASPHALT PAVEMENT IN KIND ON E. OAKWOOD ROAD, S. SHEPARD AVENUE, E. STONEGATE DRIVE S. 11TH AVENUE AND E OBRIEN ROAD. MINIMUM PAVEMENT STRUCTURE IS 2-1/4-INCHES OF 3LT 58-28 S, 19MM BINDER COURSE AND 1 3/4-INCHES OF 5LT 58-28 S, 9.5MM SURFACE COURSE. ASPHALT SHALL BE PLACED OVER 8-INCHES OF BASE AGGREGATE DENSE 1 1/4-INCH. IF THE EXISTING PAVEMENT STRUCTURE IS LESS THAN THE MINIMUM, THE AREA WILL BE PREPPED AND RESTORED TO THE MINIMUM LISTED. REPLACE FULL LANE OF ASPHALT PAVEMENT UNLESS DIRECTED OTHERWISE.
7. REPLACE ASPHALT PAVEMENT ON E. GARDEN PLACE AND S. CHICAGO ROAD ACCORDING TO THE WISDOT PERMIT. THE MINIMUM DIMENSION FOR AN ASPHALTIC CONCRETE PATCH IS 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 PER WISDOT HMM 09-15-45 SECTION 5.2.
8. DISTURBED AREAS WITHIN THE RIGHT-OF WAY SHALL BE RESTORED WITH AT LEAST 3-INCHES OF TOPSOIL, SALT-TOLERANT GRASS SEED MIX, AND MULCH. EROSION CONTROL MAY SHALL BE PLACED AT SWALES AND WHEN MINIMUM SLOPE IS EXCEEDED.

NEW WATER MAIN

INSULATION TO BE INSTALLED BY CONTRACTOR

18-INCH, MIN. CLEARANCE*

SANITARY SEWER/STORM

6-INCH, MIN. CLEARANCE

SANITARY SEWER/STORM/WATER MAIN

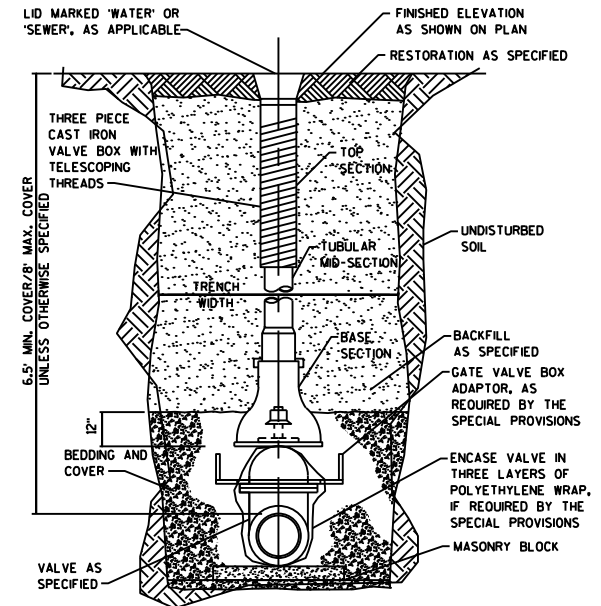
MIN. LENGTH=UTILITY PIPE DIA. + 2' ON EITHER SIDE OF PIPE WALL

NEW WATER MAIN

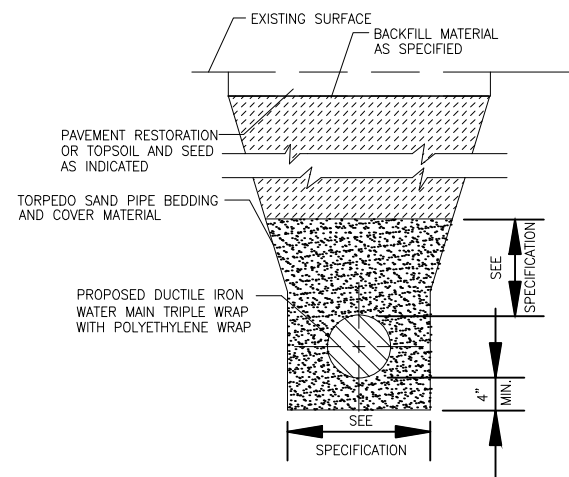
TYPE A

TYPE B

*6-INCH, MIN. CLEARANCE UNDER EXISTING WM



GATE VALVE BOX SETTING
NO SCALE



TYPICAL TRENCH DETAIL
NO SCALE

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer
Date

CITY OF OAK CREEK
WATER AND SEWER UTILITY

RON PRITZLAFF
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RPRITZLAFF@WATER.OAK-CREEK.WI

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MSIMMONS@OAKCREEKWI.ORG

WISDOT PERMIT

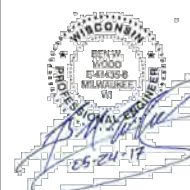
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PIPE HARVESTING STUDY

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MILWAUKEE, WI 53201
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ANTHONY.KAPPELL@MU.EDU



CITY OF OAK CREEK, WISCONSIN

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B.W.	05/25/17	E.Y.	05/25/17	M.F.	05/25/17

STANDARD SYMBOLS, GENERAL NOTES, AND DETAIL DRAWINGS

APPROVED BY

UTILITY ENGINEER DATE

CHIEF ENGINEER	DATE
APPROVED BY	

CITY ENGINEER DATE

SCALE	SHEET
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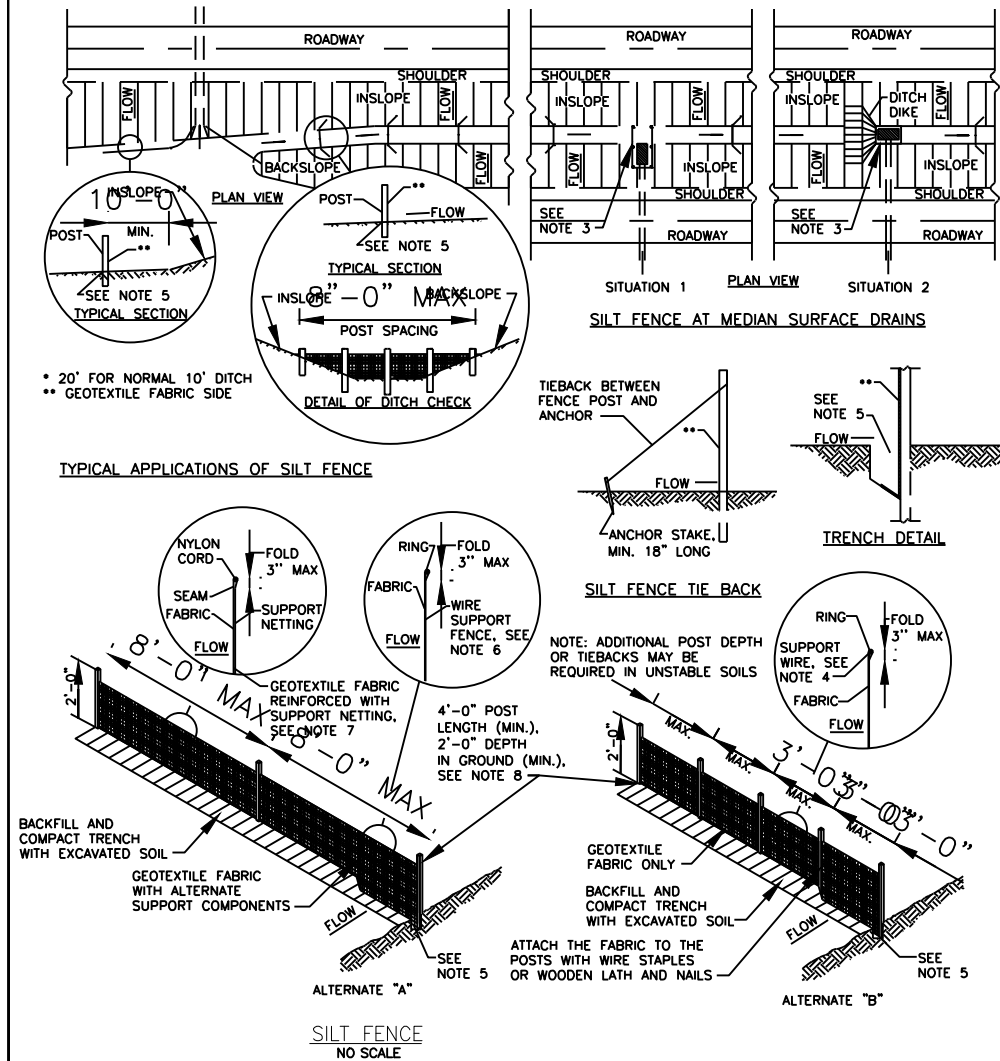
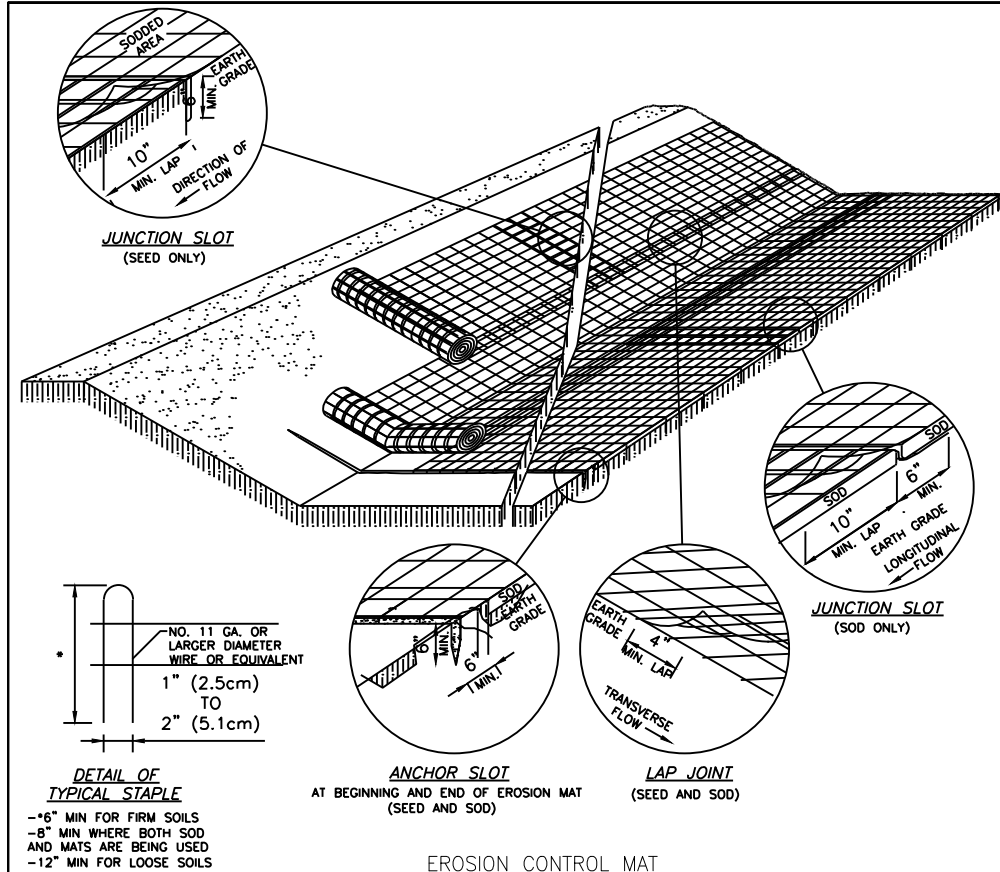
PLAN	
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PLAN	
HOR. <u>N/A</u>	<u>2</u>

NAME: _____ PROFILE _____	_____ OF _____
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APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 17102-2C-2335



- NOTES:**
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
 2. VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH.
 3. LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.
 4. JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.
 5. EDGES OF THE EROSION MAT SHALL BE IMPRESSED IN THE SOIL.
 6. EROSION MAT SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

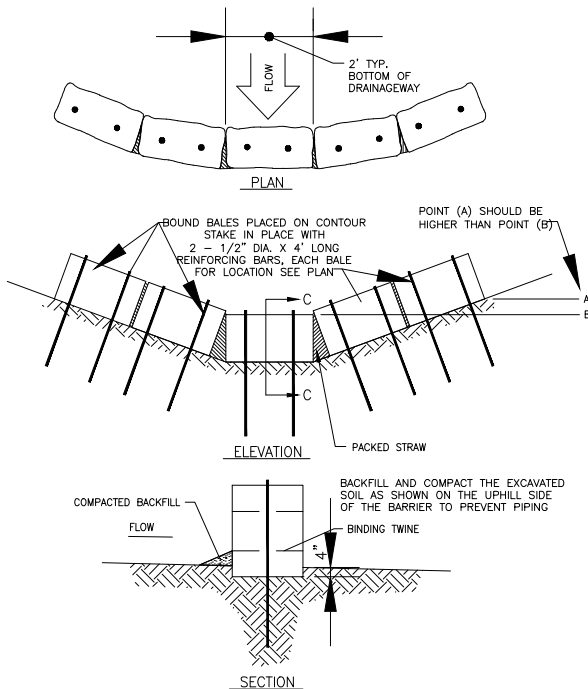
EROSION MAT OVER SOD

- ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD.
- FLOOD STAKES FOR SOD MAY BE OMITTED IF THE EXISTING SLOPE AND SOIL CONDITIONS SO PERMIT.
- THE WIDTH OF EROSION MAT SHALL ALWAYS EQUAL THE SOD WIDTH.
- SOD STRIPS MAY BE PLACED EITHER LONGITUDINALLY OR TRANSVERSELY TO THE FLOW LINE OF THE DITCH.

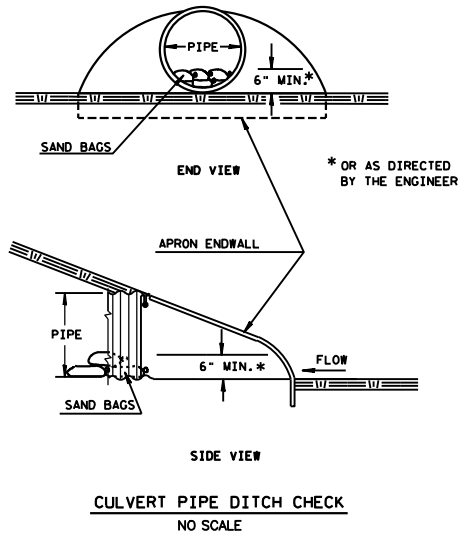
EROSION MAT OVER SEEDING

- JUNCTION OR ANCHOR SLOTS WILL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET ON GRADES EXCEEDING 3 PERCENT.

- NOTES:**
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
 2. WHEN POSSIBLE THE SILT FENCE SHALL BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
 3. CROSS BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
 4. MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.
 5. EXCAVATE TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
 6. WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C TO C.
 7. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 1/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
 8. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.2 LBS/LINEAR FOOT WITHOUT ANCHORS, OR ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIAMETER, OR 2 1/2"x3 1/2", EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/8"x1 1/8" OAK OR HICKORY.
 9. ALTERNATES "A" AND "B" ARE EQUAL AND EITHER MAY BE USED.
 10. SILT FENCE TO BE INSTALLED IN ACCORDANCE WITH WNDOR TECHNICAL STANDARD 1056.



- NOTES:**
1. STAGGER BALES TO COVER JOINTS IF MORE THAN 1 ROW IS USED.
 2. WHEN ROLLED EXCELSIOR IS USED, ANGLE STAKES IN THE DIRECTION OF FLOW, DRIVE THEM 2' ON CENTER, AND ENTWINE THE ENDS OF THE STAKES IN THE MESH ROLL COVERING.

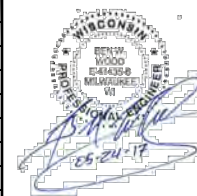


EROSION CONTROL NOTES

1. ALL PERMIT CONDITIONS SHALL BE MET DURING CONSTRUCTION OF THE PROJECT.
2. CONSTRUCTION SITE EROSION CONTROL AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF OAK CREEK, AND SHALL MEET OR EXCEED EROSION CONTROL METHODS AS SHOWN AND SPECIFIED IN THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) "CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS".
3. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION AFTER A RAINFALL OF 0.5 INCHES OR MORE, BUT NO LESS THAN ONCE EVERY WEEK. MAINTENANCE OF ALL EROSION CONTROL STRUCTURES SHALL BE PROVIDED TO INSURE INTENDED PURPOSE IS ACCOMPLISHED. REPAIRS AND MAINTENANCE SHALL BE COMPLETED WITHIN 24 HOURS OF INSPECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REMOVAL OF ALL SEDIMENT WHEN LEAVING PROPERTY. EROSION CONTROL MEASURES MUST BE IN WORKING CONDITION AT END OF EACH WORK DAY.
5. EROSION CONTROL MEASURES SHALL BE MAINTAINED ON A CONTINUING BASIS UNTIL SITE IS FULLY STABILIZED.
6. FILTER FABRIC SHALL BE INSTALLED BENEATH INLET COVERS TO TRAP SEDIMENT AS PER INLET PROTECTION DETAIL IN THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS.
7. PERIODIC STREET SWEEPING SHALL BE COMPLETED TO MAINTAIN THE PUBLIC STREET FREE OF DUST AND DIRT.
8. SILT FENCE SHALL BE INSTALLED IN HORSESHOE FASHION AROUND ALL TOPSOIL AND FILL STOCKPILES. NOTIFY THE CITY OF OAK CREEK OF ANY NEW STOCKPILE LOCATIONS.
9. WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
10. ANY SOIL DISTURBANCE AND/OR SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSLOPE ROAD, LAKE, STREAM, WETLAND, OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE PILE, IF REMAINING FOR MORE THAN THIRTY DAYS. PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS, OR OTHER MEANS.
11. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING, AND MULCHING SODDING, COVERING WITH TARPS, OR EQUIVALENT BEST MANAGEMENT PRACTICES. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION. SEEDING OR SODDING SHALL BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
12. TRACKING. EACH SITE SHALL HAVE GRAVELED ROADS, ACCESS DRIVES AND PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING, TO THE SATISFACTION OF THE CITY, BEFORE THE END OF EACH WORKDAY. FLUSHING MAY NOT BE USED UNLESS SEDIMENT WILL BE CONTROLLED BY A SEDIMENT BASIN OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICE SPECIFIED IN THE WDNr "CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS". NOTIFY THE CITY OF OAK CREEK FOR CHANGES IN STABILIZED CONSTRUCTION ENTRANCE LOCATION.
13. SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
14. NOTIFY THE CITY WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
15. NOTIFY THE CITY OF COMPLETION OF ANY BEST MANAGEMENT PRACTICES WITHIN THE NEXT WORKING DAY AFTER THEIR INSTALLATION.
16. OBTAIN PERMISSION IN WRITING FROM THE CITY OF OAK CREEK WATER & SEWER UTILITY DEPARTMENT PRIOR TO MODIFYING THE EROSION CONTROL PLAN. NOTIFY WDNr AT LEAST FIVE WORKING DAYS PRIOR TO IMPLEMENTING CHANGES TO THE EROSION CONTROL PLAN.
17. REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.
18. KEEP A COPY OF THE EROSION CONTROL PLAN ON SITE.
19. WHENEVER SOIL EXHIBITING OBVIOUS SIGNS OF CONTAMINATION IS ENCOUNTERED DURING EXCAVATION OR INSTALLATION, CEASE WORK IMMEDIATELY, TAKE APPROPRIATE IMMEDIATE PRECAUTIONS TO ENSURE WORKER HEALTH AND SAFETY, AND CONTACT OPERATIONS SUPERVISOR OR INSPECTOR.
20. WATER PUMPED FROM THE SITE, INCLUDING BUT NOT LIMITED TO, PITS OR TRENCHES SHALL BE TREATED BY SEDIMENT BASINS, AN APPROVED SEDIMENT BAG, A STRAW BALE DEWATER BASIN, A COMBINATION OF BOTH, OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICES SPECIFIED IN THE WDNr "CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS". WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, ADJACENT SITES, OR RECEIVING CHANNELS.
21. PRIOR TO INITIATING ANY LAND DISTURBANCE IN WETLANDS, CONFIRM THAT NECESSARY FEDERAL, STATE, AND LOCAL PERMITS HAVE BEEN OBTAINED.
22. AS MUCH AS PRACTICABLE, THE MAJORITY OF WORK SHALL BE STAGED FROM THE PUBLIC ROADWAYS AND ROAD SHOULDERS, AND EQUIPMENT SHALL BE KEPT OUT OF WETLANDS. ALL WORK SHALL BE CONDUCTED TO MINIMIZE SOIL DISTURBANCE. NO RUTTING WILL BE ALLOWED IN WETLANDS.
23. IF SOILS ARE NOT FROZEN OR STABLE TO A POINT THAT AVOIDS RUTTING, TIMBER MATS, MUD TRACKS, OR EQUIVALENT SHALL BE UTILIZED FOR ACCESS IN WETLANDS
24. EXCAVATED SPOILS SHALL NOT BE STOCKPILED IN WETLANDS AND ALL EXCESS SPOILS SHALL BE REMOVED FROM WETLANDS AND PLACED IN A SUITABLE UPLAND LOCATION.
25. TRENCHING AND PIT EXCAVATIONS WITHIN WETLANDS WILL INCLUDE SOIL SEGREGATION TO FACILITATE RESTORATION OF PRE-CONSTRUCTION SOIL STRATIFICATION, AND RESTORATION TO PRE-CONSTRUCTION ELEVATIONS.
26. NO WORK SHALL BE PERFORMED WITHIN THE BANKS OR BELOW THE ORDINARY HIGH WATERMARK OF ANY NAVIGABLE WATERWAY OR STREAM AND NO CROSSING OF NAVIGABLE WATERWAYS WITH EQUIPMENT CAN OCCUR.
27. ANY SOIL BEING DISTURBED WITHIN 75 FEET OF AN ORDINARY HIGHWATER MARK OF ANY NAVIGABLE WATERWAY OR STREAM SHALL BE STABILIZED WITHIN 24 HOURS OF CONSTRUCTION COMPLETION.
28. REMOVE ALL EROSION CONTROL PRACTICES ONCE SITE HAS BEEN STABILIZED.

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer Date



CITY OF OAK CREEK, WISCONSIN

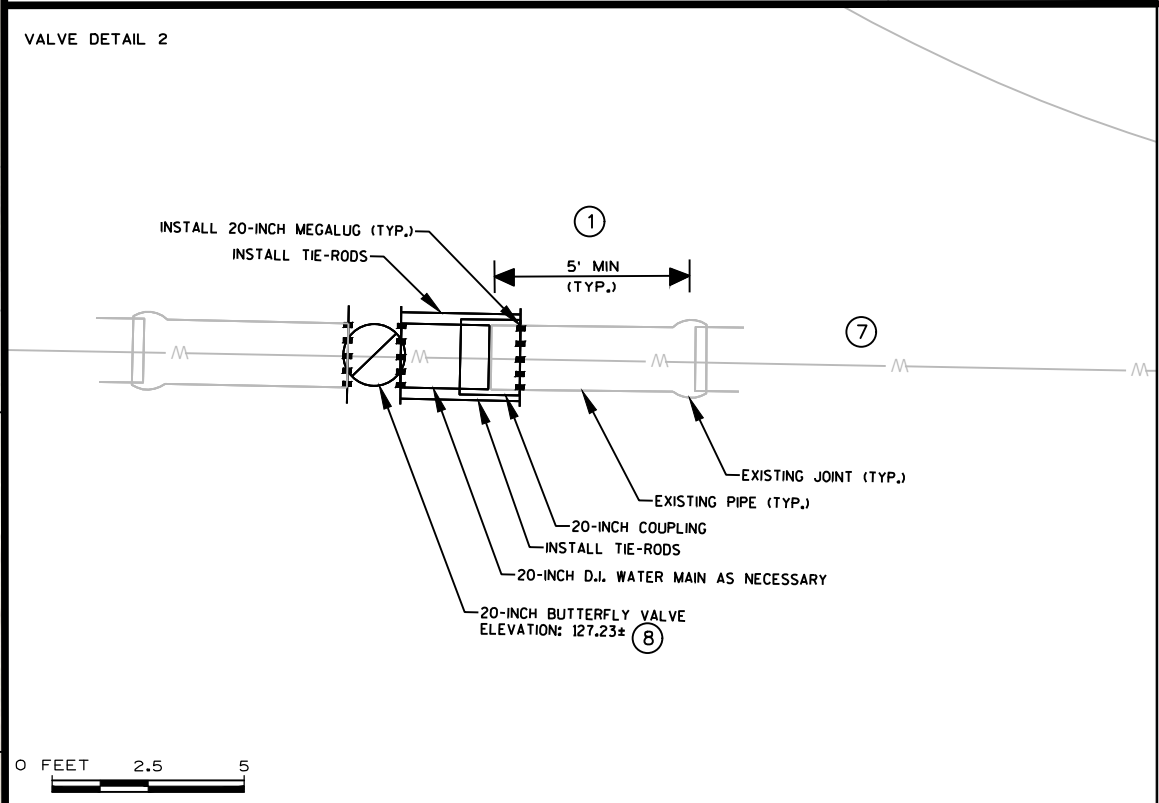
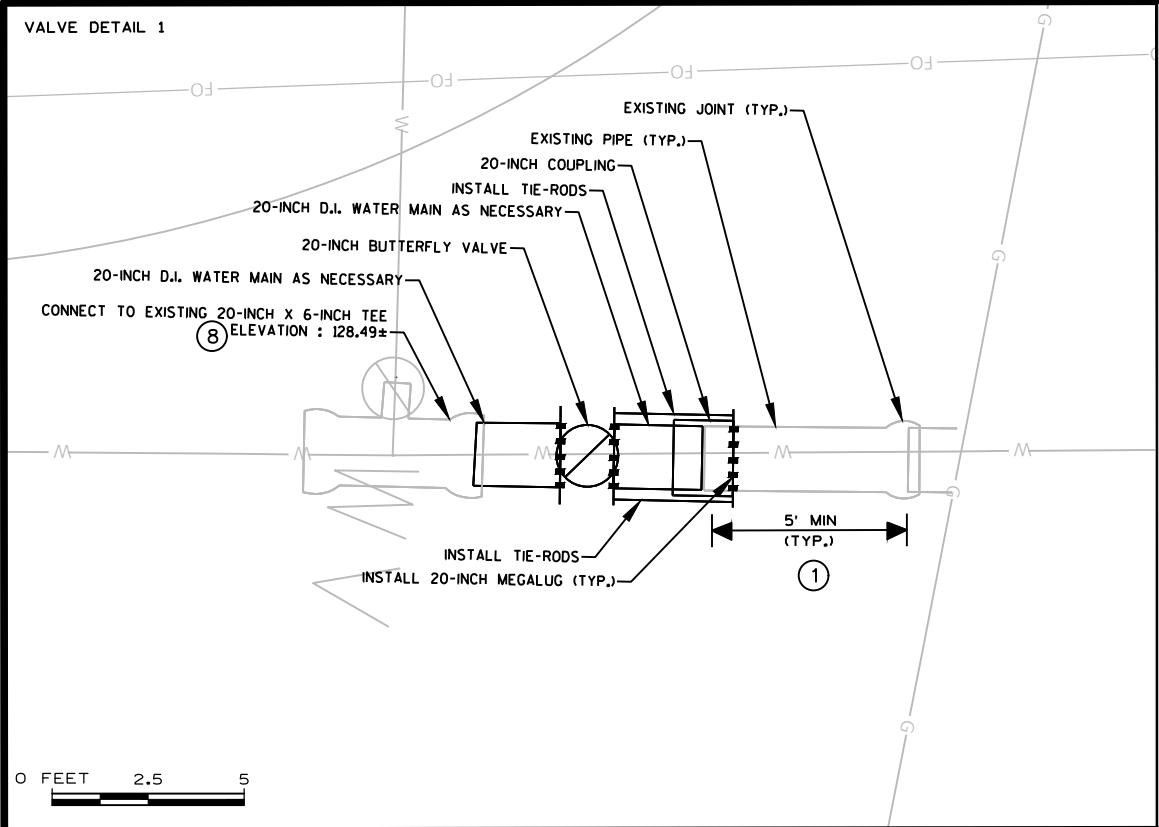
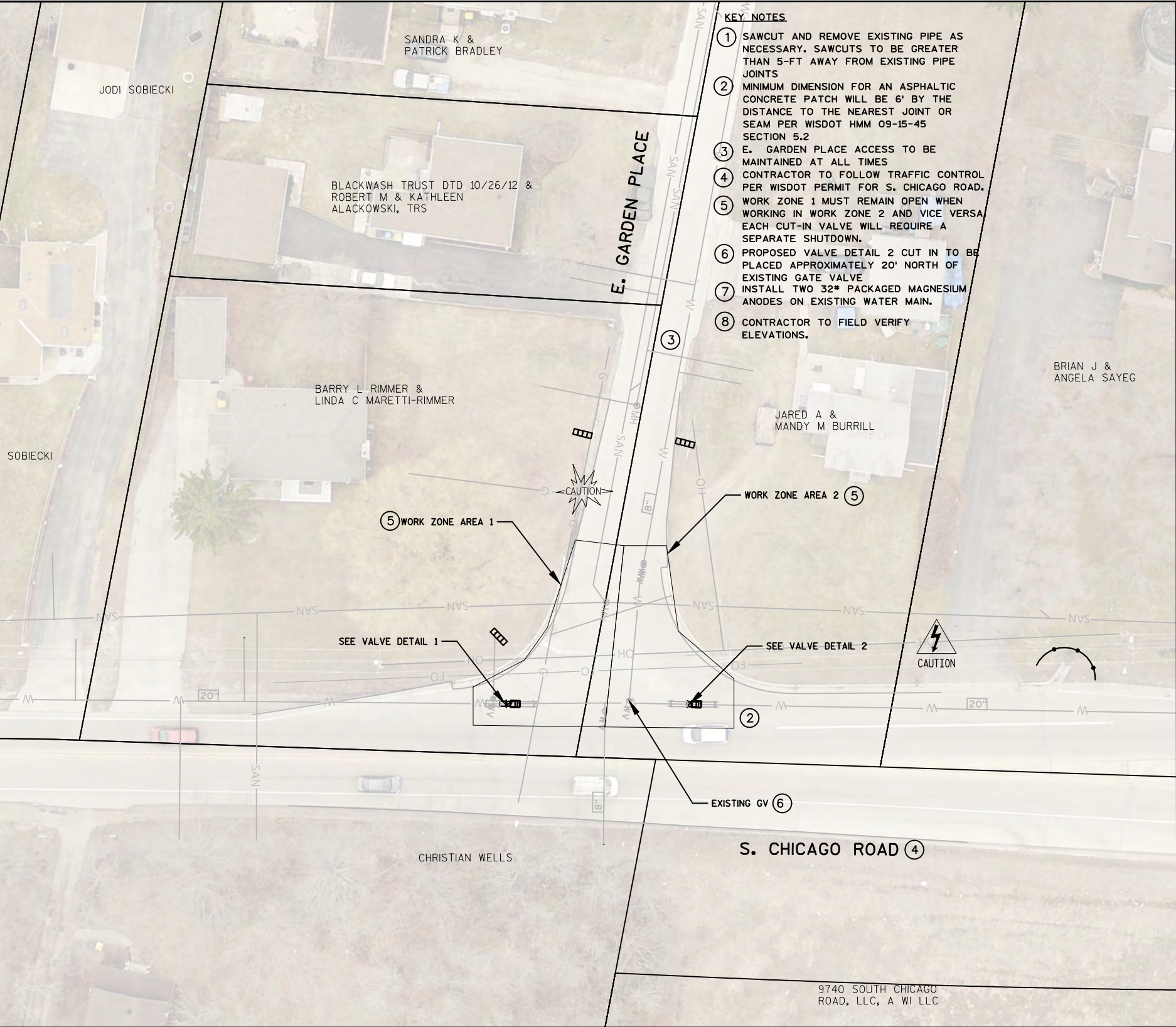
DESIGNED BY DATE DRAWN BY DATE CHECKED BY DATE
B.W. 05/25/17 E.Y. 05/25/17 M.F. 05/25/17

EROSION CONTROL NOTES AND DETAILS

APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN	3
HOR. N/A	OF
PROFILE	
VER. N/A	8

APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 17102-3C-2336



0 FEET 40 80

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Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

N

BID ITEM NOS.	ESTIMATE OF QUANTITIES
2	S. CHICAGO ROAD AND E. GARDEN PLACE 20" CUT-IN VALVES.....1 LS

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.

This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.

Utility Engineer Date

REVISION BY DATE

APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 17102-5C-2338

CITY OF OAK CREEK, WISCONSIN

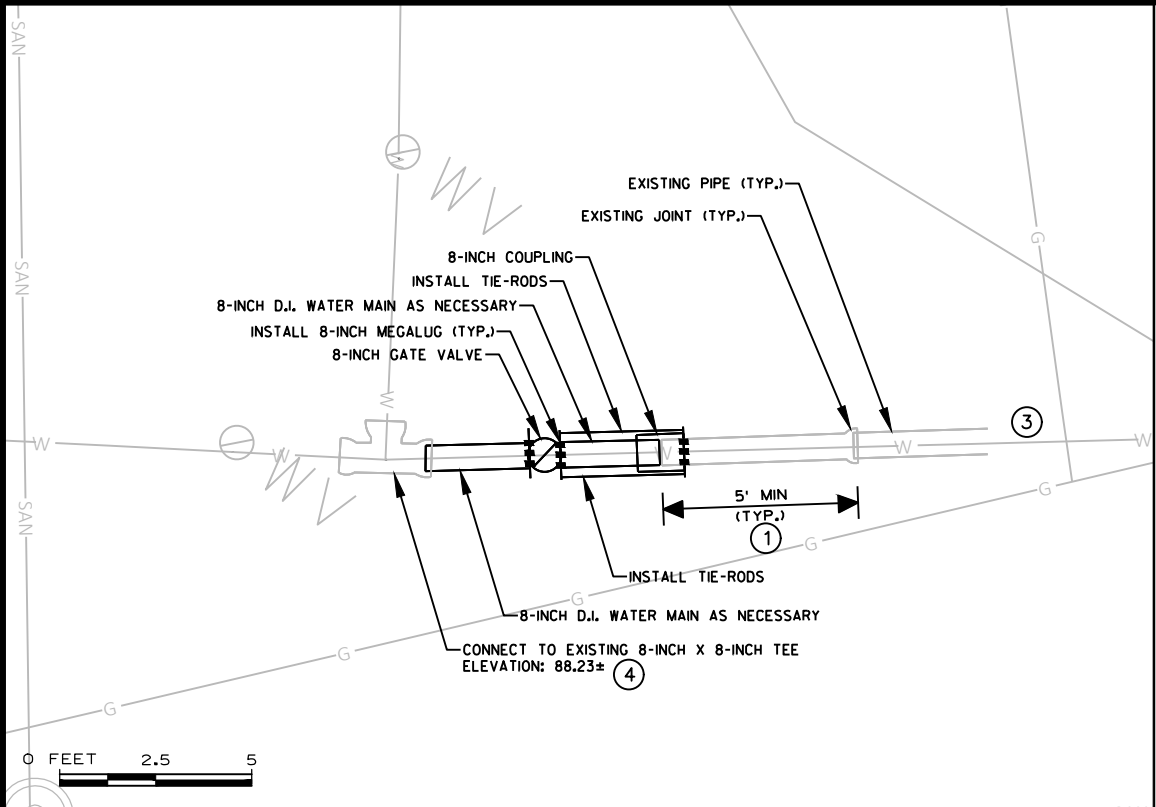
DESIGNED BY DATE DRAWN BY DATE CHECKED BY DATE
B.W. 05/25/17 E.Y. 05/25/17 M.F. 05/25/17

PROPOSED 20" CUT-IN VALVES
IN: SOUTH CHICAGO ROAD
AT: EAST GARDEN PLACE

APPROVED BY
UTILITY ENGINEER DATE
APPROVED BY
CITY ENGINEER DATE
SCALE SHEET
PLAN HOR. 1"=40' 5
PROFILE HOR. 1"=5' OF
VER. 1"=10' 8



- KEY NOTES**
- ① SAWCUT AND REMOVE EXISTING PIPE AS NECESSARY. SAWCUTS TO BE GREATER THAN 5-FT AWAY FROM EXISTING PIPE JOINTS
 - ② S. 11TH AVENUE ACCESS TO BE MAINTAINED AT ALL TIMES
 - ③ INSTALL ONE 32* PACKAGED MAGNESIUM ANODE ON EXISTING WATER MAIN
 - ④ CONTRACTOR TO FIELD VERIFY ELEVATIONS.



0 FEET 40 80

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ESTIMATE OF QUANTITIES	
BID ITEM NOS.	SA. ST. W. G. E. T. I. TS. PP.
1	E. OBRIEN ROAD AND S. 11TH AVENUE 8" CUT-IN VALVE.....1 LS
This is to certify that this plan was approved by the Water Works and Sewer Utility Commission of Oak Creek at a regular meeting.	
Utility Engineer	Date

CITY OF OAK CREEK, WISCONSIN

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
B.W.	05/25/17	E.Y.	05/25/17	M.F.	05/25/17

PROPOSED 8" CUT-IN VALVE
IN: EAST OBRIEN ROAD
AT: SOUTH 11TH AVENUE

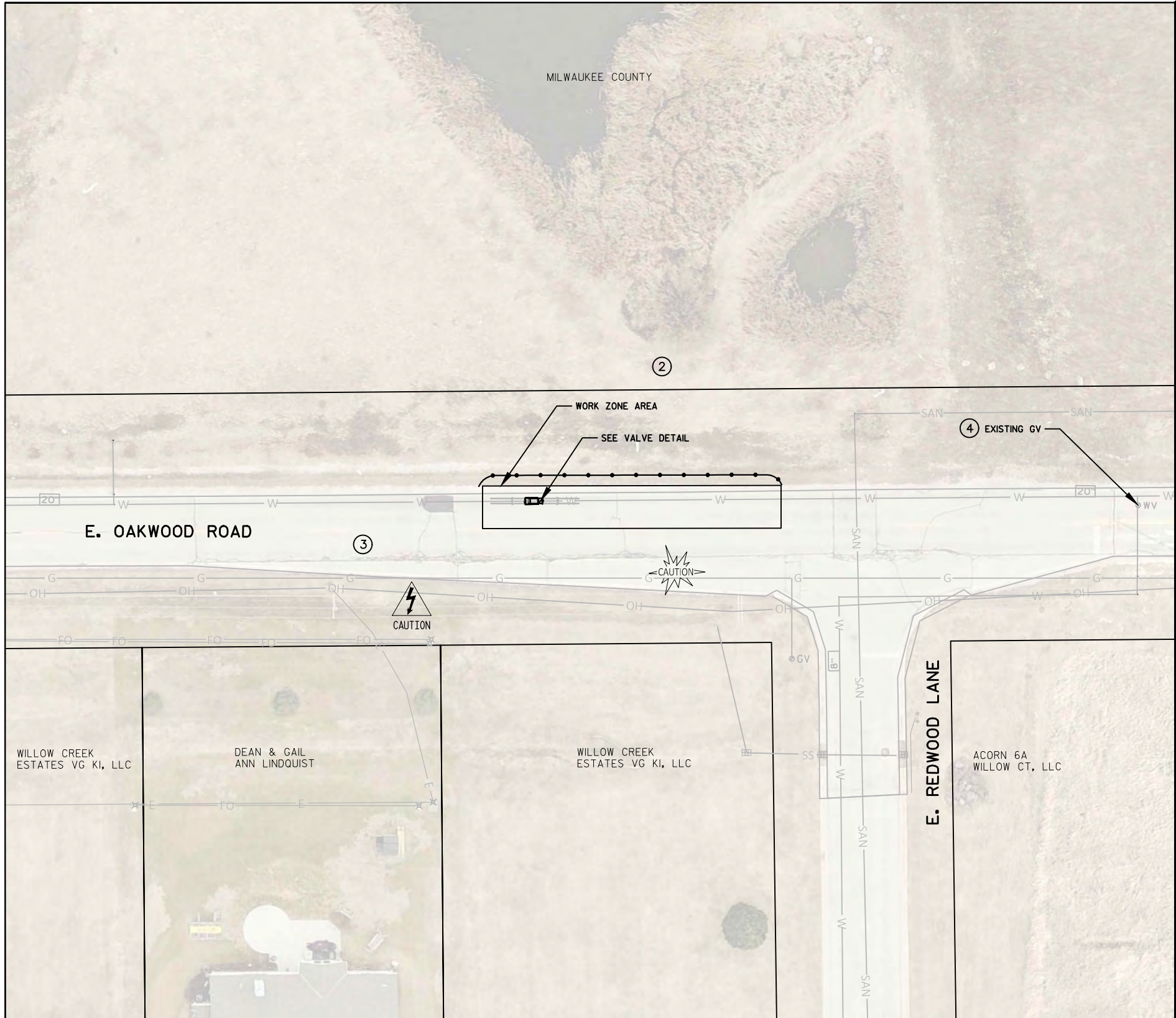
APPROVED BY

UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN HOR. 1"=40'	6
PROFILE HOR. 1"=5'	OF
VER. 1"=10'	8

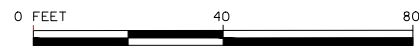
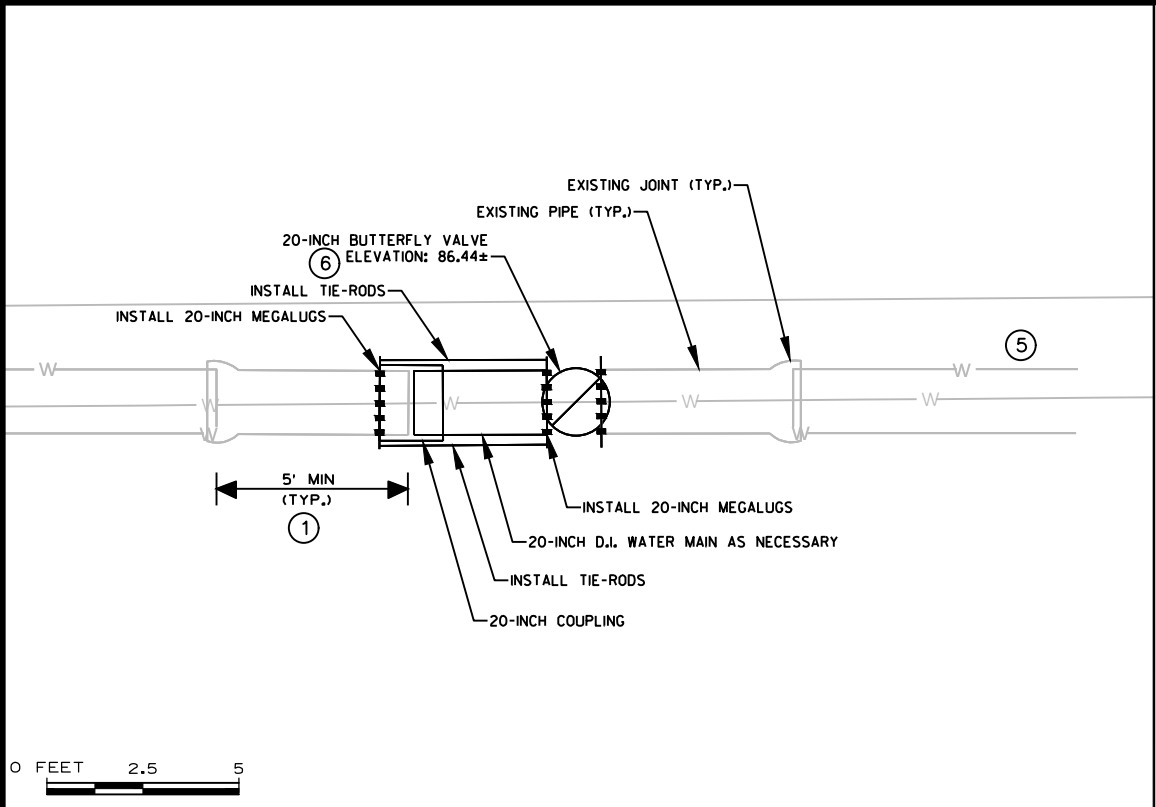
REVISION BY DATE

APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 17102-6C-2339



- KEY NOTES**
- ① SAWCUT AND REMOVE EXISTING PIPE AS NECESSARY. SAWCUTS TO BE GREATER THAN 5-FT AWAY FROM EXISTING PIPE JOINTS
 - ② CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT OR TRACK EQUIPMENT OUTSIDE OF ASPHALT PAVEMENT OR GRAVEL SHOULDER. WETLAND INDICATORS PRESENT.
 - ③ E. OAKWOOD ROAD SHALL REMAIN OPEN TO TWO-WAY TRAFFIC AT ALL TIMES.
 - ④ PROPOSED CUT-IN VALVE TO BE PLACED APPROXIMATELY 200" WEST OF EXISTING GATE VALVE
 - ⑤ INSTALL TWO 32* PACKAGED MAGNESIUM ANODES ON EXISTING WATER MAIN
 - ⑥ CONTRACTOR TO FIELD VERIFY ELEVATIONS.



Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

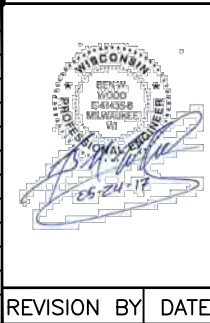


BID ITEM NOS.	ESTIMATE OF QUANTITIES
1	E. OAKWOOD ROAD AND E. REDWOOD LANE 20" CUT-IN VALVE....1 LS

This is to certify that this plan was
approved by the Water Works and Sewer
Utility Commission of Oak Creek at a
regular meeting.

Utility Engineer Date

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.



CITY OF OAK CREEK, WISCONSIN			
DESIGNED BY	DATE	DRAWN BY	DATE
B.W.	05/25/17	E.Y.	05/25/17
CHECKED BY	DATE	M.F.	05/25/17
PROPOSED 20" CUT-IN VALVE			
IN: EAST OAKWOOD ROAD			
FR: 755' EAST OF WILLOW CREEK DRIVE			
TO: 110' WEST OF EAST REDWOOD LANE			

APPROVED BY	
UTILITY ENGINEER	DATE
APPROVED BY	
CITY ENGINEER	DATE
SCALE	SHEET
PLAN 1"=40'	7
PROFILE 1"=5'	OF
VER. 1"=10'	8

REVISION BY DATE APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 17102-7C-2340

