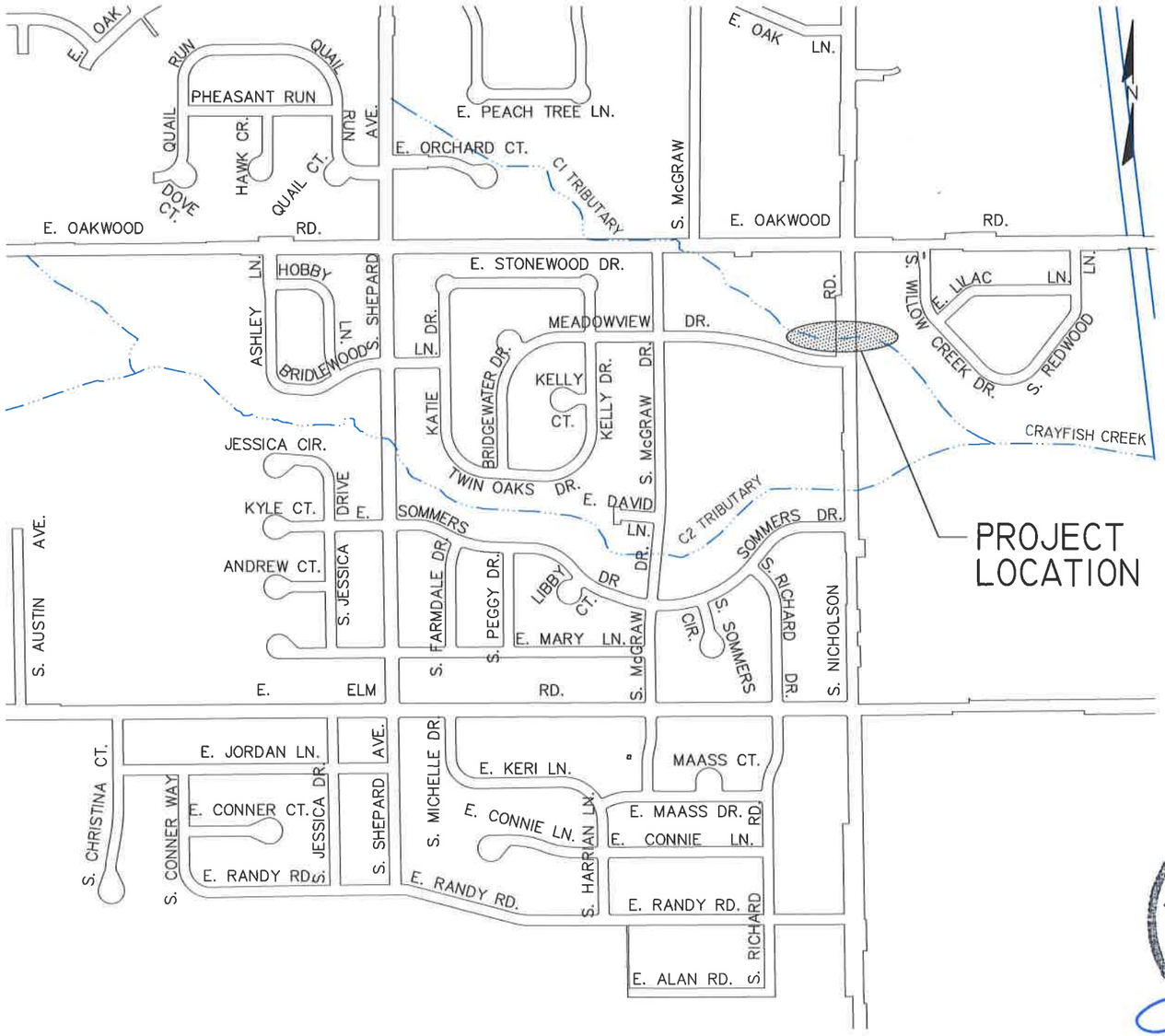


S. NICHOLSON ROAD CULVERT REPLACEMENT IMPROVEMENTS

PROJECT NO. 14017
CITY OF OAK CREEK

LIST OF DRAWINGS

SHEET NO.	DESCRIPTION
14017–1B–2546	COVER SHEET
14017–2B–2547	PROPOSED BOX CULVERT IN S. NICHOLSON ROAD 125' NORTH OF E. MEADOWVIEW DRIVE
14017–2B–2548	EROSION CONTROL AND TRAFFIC CONTROL

ESTIMATE OF QUANTITIES

BID ITEM NO.		
1	4'x8' CONCRETE BOX CULVERT WITH END SECTIONS	64 L.F.
2	EXCAVATION FOR STRUCTURES, CULVERTS	1 L.S.
3	STRUCTURAL BACKFILL	200 C.Y.
4	REMOVE STEEL SHEET PILING DROP STRUCTURE	1 L.S.
5	REMOVE CULVERT	2 EA.
6	SAW CUT PAVEMENT	48 L.F.
7	WATERMAIN OFFSET	1 L.S.
8	RAILING	52 L.F.
9	CRUSHED AGGREGATE BASE COURSE	40 TONS
10	4" ASPHALT PAVEMENT	100 S.Y.
11	HEAVY RIPRAP WITH GEOTEXTILE FABRIC	54 TONS
12	SILT FENCE	100 L.F.
13	COFFERDAM WITH PUMPING	2 EA.
14	EROSION MAT URBAN CLASS 1 TYPE A	600 S.Y.
15	TOPSOIL AND TURF SEED RESTORATION	500 S.Y.
16	TOPSOIL AND WETLAND RESTORATION	100 S.Y.
17	PAVEMENT MARKING	200 L.F.
18	TRAFFIC CONTROL	1 L.S.

STATE OF WISCONSIN
GARY E. RAASCH
E-18894
BROOKFIELD, WI.
PROFESSIONAL ENGINEER
5/3/19

GENERAL NOTES

THE LOCATION OF EXISTING UTILITIES, AS SHOWN ON THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

NO TREES OR SHRUBS SHALL BE DISTURBED OR REMOVED UNLESS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATION AND DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES IT IS NO LONGER NECESSARY.

ALL EROSION CONTROL SHALL MEET THE REQUIREMENTS SET FORTH IN THE CITY OF OAK CREEK ORDINANCES OR WISCONSIN DEPARTMENT OF NATURAL RESOURCES, WHICHEVER IS MORE STRICT.

EXISTING DRIVEWAYS SHALL BE RESTORED IN KIND AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE LIMITS OF WORK AND LOCATIONS SHALL BE IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE ENGINEER.

A SAWED JOINT IS REQUIRED WHERE NEW ASPHALT MEETS EXISTING ASPHALT.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNTIL TIME OF RECONSTRUCTION. THE CONTRACTOR MUST GIVE LAND OWNER 48 HOURS NOTICE PRIOR TO RECONSTRUCTION.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STAGED TRAFFIC CONTROL PLAN AND THE LATEST ADDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WISMUTCD) – SUPPLEMENT TO THE MUTCD.

CONTRACTOR SHALL ONLY WORK WITHIN THE RIGHT–OF–WAY OR STORM SEWER EASEMENT UNLESS SHOWN OTHERWISE ON PLANS. CONTRACTOR MUST HAVE ENGINEER WRITTEN AUTHORIZATION PRIOR TO WORKING OUTSIDE OF THE RIGHT–OF–WAY OR STORM SEWER EASEMENT. WORK THAT IS DONE OUTSIDE OF THE RIGHT–OF–WAY OR STORM SEWER EASEMENT WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL NOT BE PAID FOR.

ALL DISTURBED TURF AREAS SHALL BE FINE GRADED AND RESTORED WITH 3" OF SCREENED TOPSOIL IMPORTED TO THE SITE, SEED MIX 40, FERTILIZER, EROSION MAT URBAN CLASS 1 TYPE A.

ALL DISTURBED WETLAND AREAS SHALL BE FINE GRADED AND RESTORED WITH 3" OF SCREENED TOPSOIL IMPORTED TO THE SITE, WETLAND SEED MIX, AND EROSION MAT URBAN CLASS 1 TYPE B. THE WETLAND SEED MIX WILL CONSIST OF A COVER CROP AND NATIVE SEED MIX. THE COVER CROP SHALL BE ANNUAL OATS (AVENA SATIVA) FOR SPRING PLANTINGS OR WINTER WHEAT (TRITICUM AESTIVUM) FOR DORMANT FALL PLANTINGS, AT 25 POUNDS PER ACRE. THE NATIVE SEED MIX APPLIED AT 12 POUNDS PER ACRE WILL BE COMPOSED OF A MINIMUM OF THREE SPECIES FROM THE FOLLOWING LIST, WITH NO INDIVIDUAL SPECIES COMPRISING MORE THAN 35% OF THE TOTAL GRASS SEED MIX.

SCIENTIFIC NAME	COMMON NAME
Elymus canadensis	Canada wild rye (REQUIRED SPECIES)
Calamagrostis Canadensis	Canada blue joint
Leersia oryzoides	rice cut grass
Elymus virginicus	virginia wild rye

CONTRACTOR SHALL PROTECT ALL TREES AND SHRUBS FROM ALL EQUIPMENT EXHAUST.

SA.			
ST.			
W.			
G.			
E.			
T.			
I.			
TS.			
PP.			
	GER	5/19	
	REVISION BY	DATE	

CITY OF OAK CREEK – ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY
PJB	1/16	PJB	1/16	MCS	1/16	Michael C. Simmons 5/6/19

CITY ENGINEER — DATE

COVER SHEET

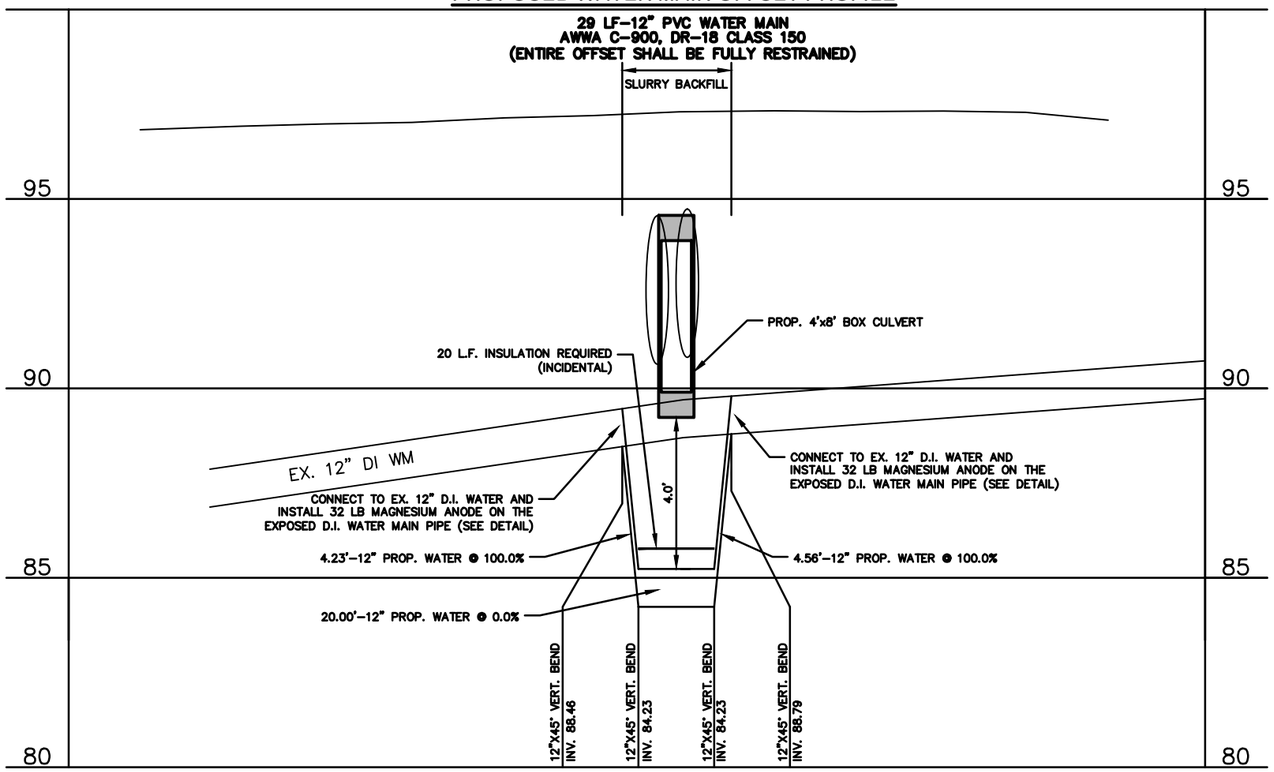
CULVERT REPLACEMENT IN S. NICHOLSON ROAD
125 FEET NORTH OF E. MEADOWVIEW DRIVE

APPROVED BY COUNCIL RESOLUTION NO.

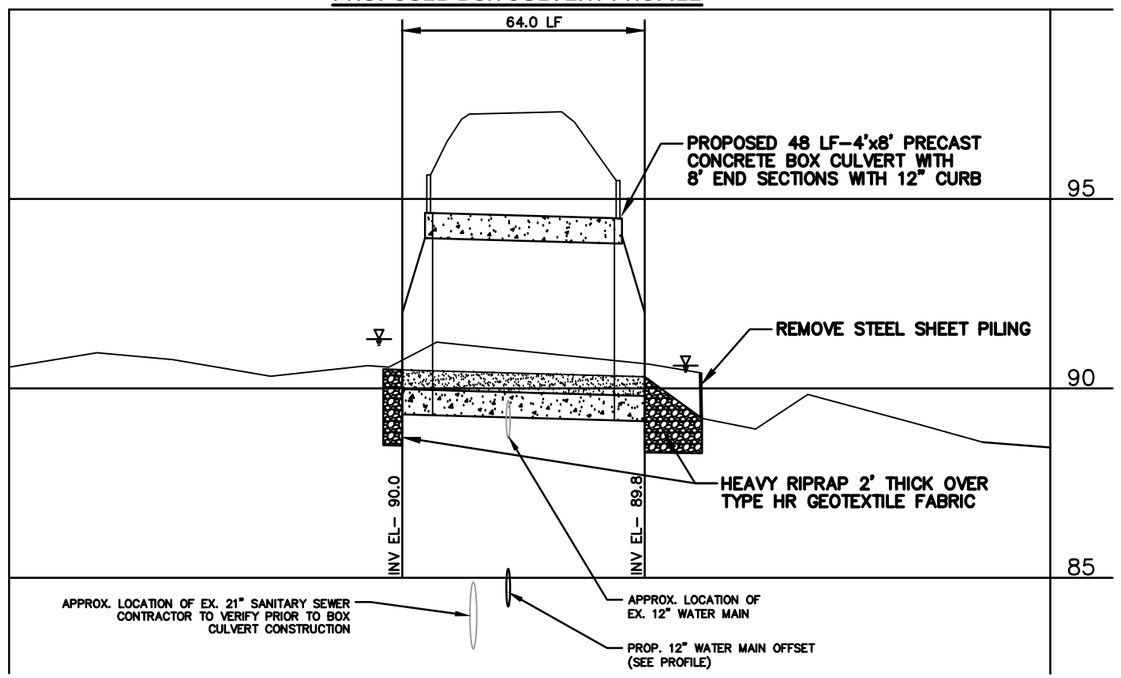
SCALE	SHEET
PLAN HOR. N/A	1
PROFILE HOR. N/A	OF
VER. N/A	3

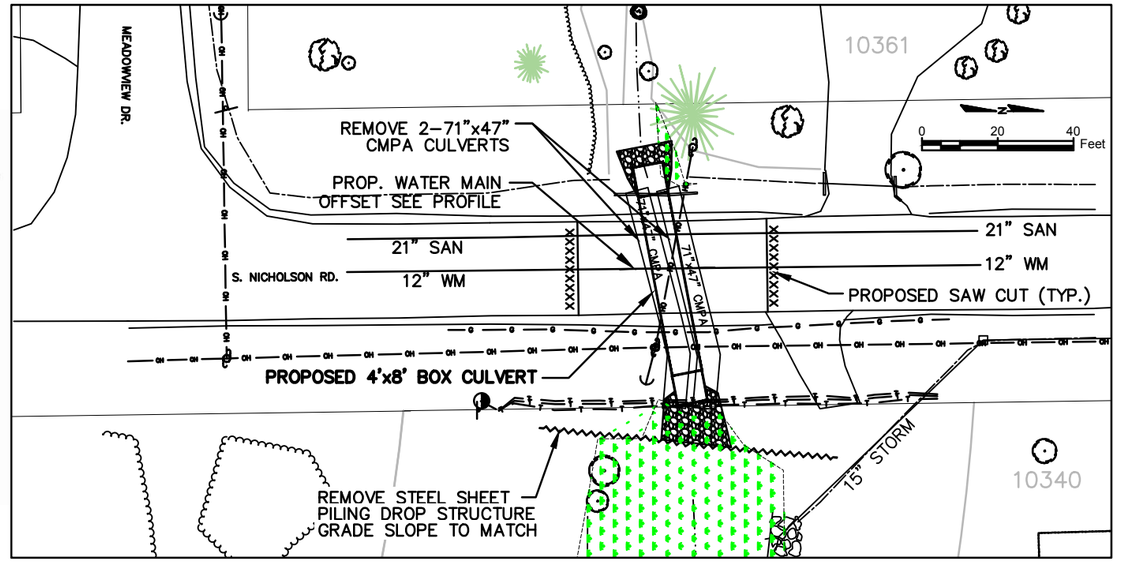
FILE NO: 14017–B–2546

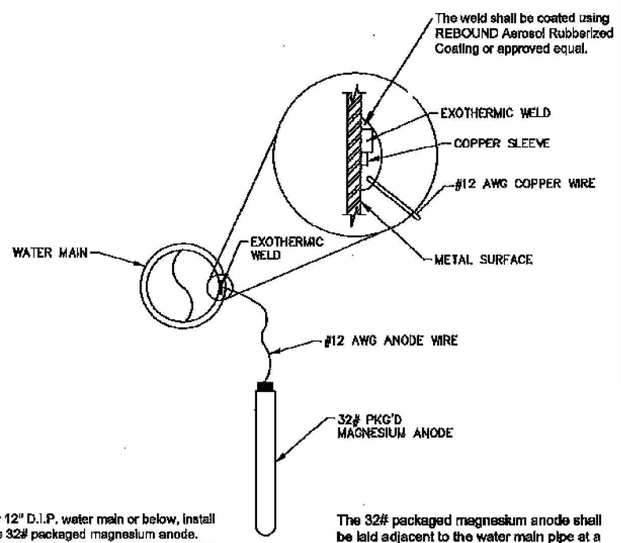
PROPOSED WATER MAIN OFFSET PROFILE



PROPOSED BOX CULVERT PROFILE



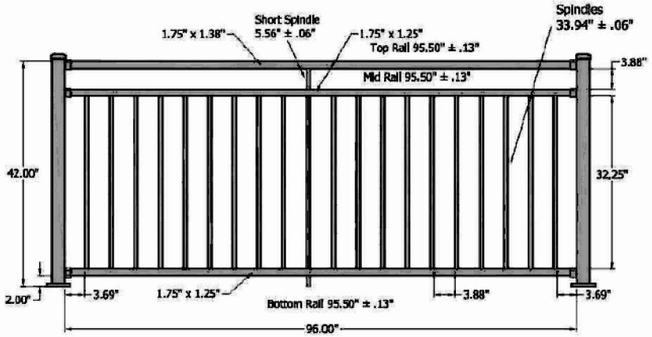




For 12" D.I.P. water main or below, install one 32# packaged magnesium anode.
For 16" D.I.P. water main or above, install two 32# packaged magnesium anodes.

The 32# packaged magnesium anode shall be laid adjacent to the water main pipe at a point that allows for the greatest separation between anode and water main.

GALVANIC ANODE INSTALLATION
N.T.S.



RAILING DETAIL
Westbury® Riviera Series Style C30 Aluminum Railing System

NOTES:
RAILINGS ON BOX CULVERT END SECTIONS SHALL BE WESTBURY RIVIERA SERIES STYLE C30 ALUMINUM RAILING (AS SHOWN), BLACK COLOR, MANUFACTURED BY DIGGER SPECIALTIES, INC. OR EQUAL

SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BEFORE RAILINGS ARE FABRICATED

RAILINGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
DIGGERS HOTLINE
TOLL FREE (800) 242-8511
MILWAUKEE AREA (414) 220-4100
WWW.DIGGERSHOTLINE.COM

Constructed By: _____
Completion Date: _____
Inspected By: _____
As–Builts By: _____
Redlines to Mylar: _____
Type of Pipe: _____

SA.	SA.	
ST.	ST.	
W.	W.	
G.	G.	
E.	E.	
T.	T.	
I.	I.	
TS.	TS.	
PP.	PP.	
GER	1/19	
PTA	11/18	

REVISION BY | DATE

CITY OF OAK CREEK – ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
PJB	1/16	PJB	1/16		

APPROVED BY
Michael C. Simon — CITY ENGINEER — 5/6/19 DATE

PROPOSED BOX CULVERT IMPROVEMENTS
IN: S. NICHOLSON ROAD
125' NORTH OF E. MEADOWVIEW DRIVE

SCALE	SHEET
PLAN HOR. 1"=40'	2
PROFILE HOR. 1"=40' VER. 1"=4'	OF 3

APPROVED BY COUNCIL RESOLUTION NO.

FILE NO: 14017–B–2547

EROSION CONTROL PLAN

EROSION CONTROL MAINTENANCE PLAN

ALL MAINTENANCE SHALL BE IN ACCORDANCE WITH APPLICABLE WDNR TECHNICAL STANDARDS

ALL EROSION CONTROL PRACTICES SHALL BE, AT A MINIMUM, INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5" OF RAIN OR MORE DURING A 24–HOUR PERIOD. REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.

ALL SEEDED AREAS SHALL BE FERTILZED, RESEEDED AS NECESSARY, AND MULCHED (OR MATTED) ACCORDING TO PROJECT SPECIFICATIONS TO ESTABLISH AND MAINTAIN A DENSE VEGETATIVE COVER.

ANY SEDIMENT TRACKED ONTO A PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT FLUSHED) BEFORE THE END OF EACH WORKING DAY.

EROSION CONTROL NOTES

1. ALL WORK TO REMOVE AND INSTALL CULVERTS AND GRADE STREAM BANKS SHALL BE DONE OUTSIDE OF ACTIVE STREAM FLOW
2. ANY DEWATERING SHALL BE DONE IN ACCORDANCE WITH WDNR CONSERVATION PRACTICE STANDARD 1061
3. EXCAVATION AND GRADING ACTIVITIES SHALL BE SEQUENCED TO MINIMIZE EXPOSURE FOR EROSION
4. USE OF COFFERDAMS AND STREAM FLOW PUMPING SHALL BE LIMITED TO 60 CONSECUTIVE HOURS.

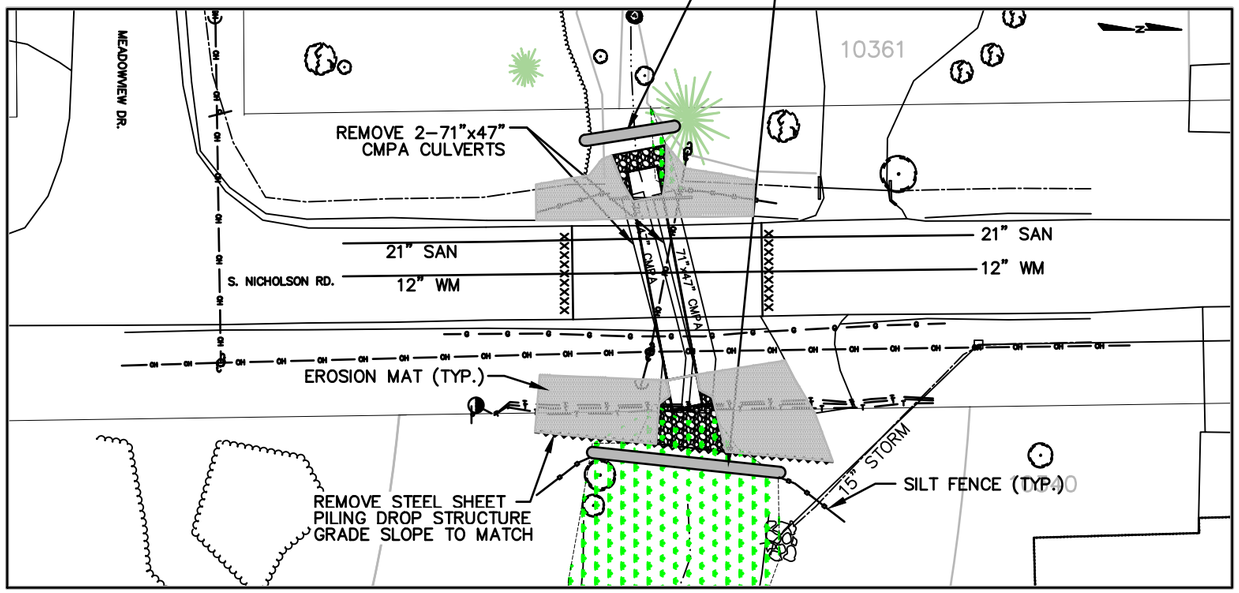
CULVERT REMOVAL/INSTALLATION SEQUENCE

INSTALL COFFERDAMS TO ISOLATE WORK AREA AND PUMP STREAM FLOW AROUND

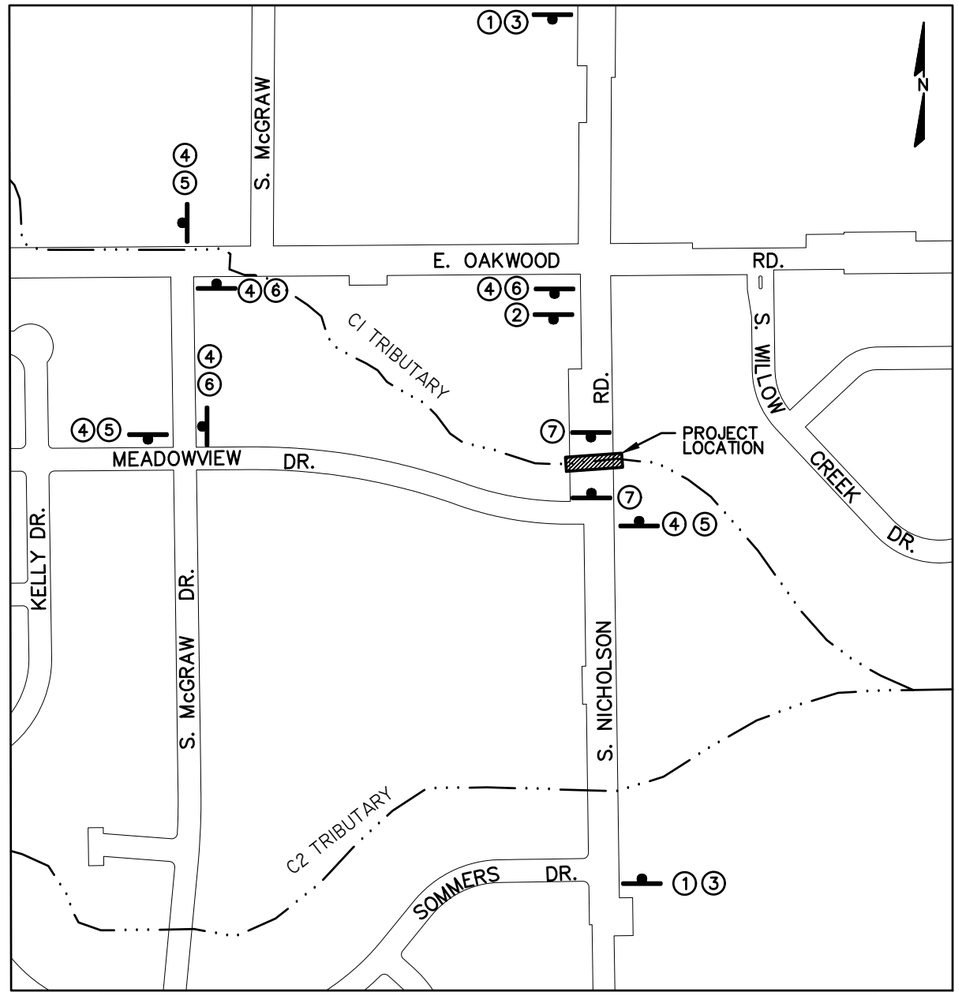
REMOVE CULVERTS, CONSTRUCT WATERMAIN OFFSET, INSTALL AND BACKFILL BOX CULVERT.

REMOVE SHEET PILING, PLACE RIPRAP, GRADE STREAM BANKS AND RESTORE WITH TOPSOIL, SEED AND EROSION MAT

REMOVE COFFERDAMS



TRAFFIC CONTROL DETOUR PLAN



LEGEND

PROPOSED SIGN MOUNTED ON POSTS

① SIGN NUMBER

① ROAD CLOSED 1000 FEET W20–3
② ROAD CLOSED 500 FEET W20–3
③ DETOUR AHEAD W20–2a
④ DETOUR M4–8
⑤ M6–1
⑥ M6–1
⑦ ROAD CLOSED R11–2 48" X 30"

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DIGGERS HOTLINE

TOLL FREE (800) 242–8511
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SA. SA.			
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T. T.			
I. I.			
TS. TS.			
PP. PP.			
	GER	5/19	
	REVISION BY	DATE	APPROVED BY COUNCIL RESOLUTION NO.

CITY OF OAK CREEK – ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
PJB	1/16	PJB	1/16			Michael C. Simons	5/6/19
						CITY ENGINEER	DATE

PROPOSED BOX CULVERT IMPROVEMENTS
EROSION CONTROL AND TRAFFIC CONTROL
S. NICHOLSON ROAD, 125' NORTH OF MEADOWVIEW

SCALE	SHEET
PLAN HOR. SCALE	3
PROFILE HOR. PROFILEHOR VER. PROFILEVER	OF 3

FILE NO: 14017–B–2548