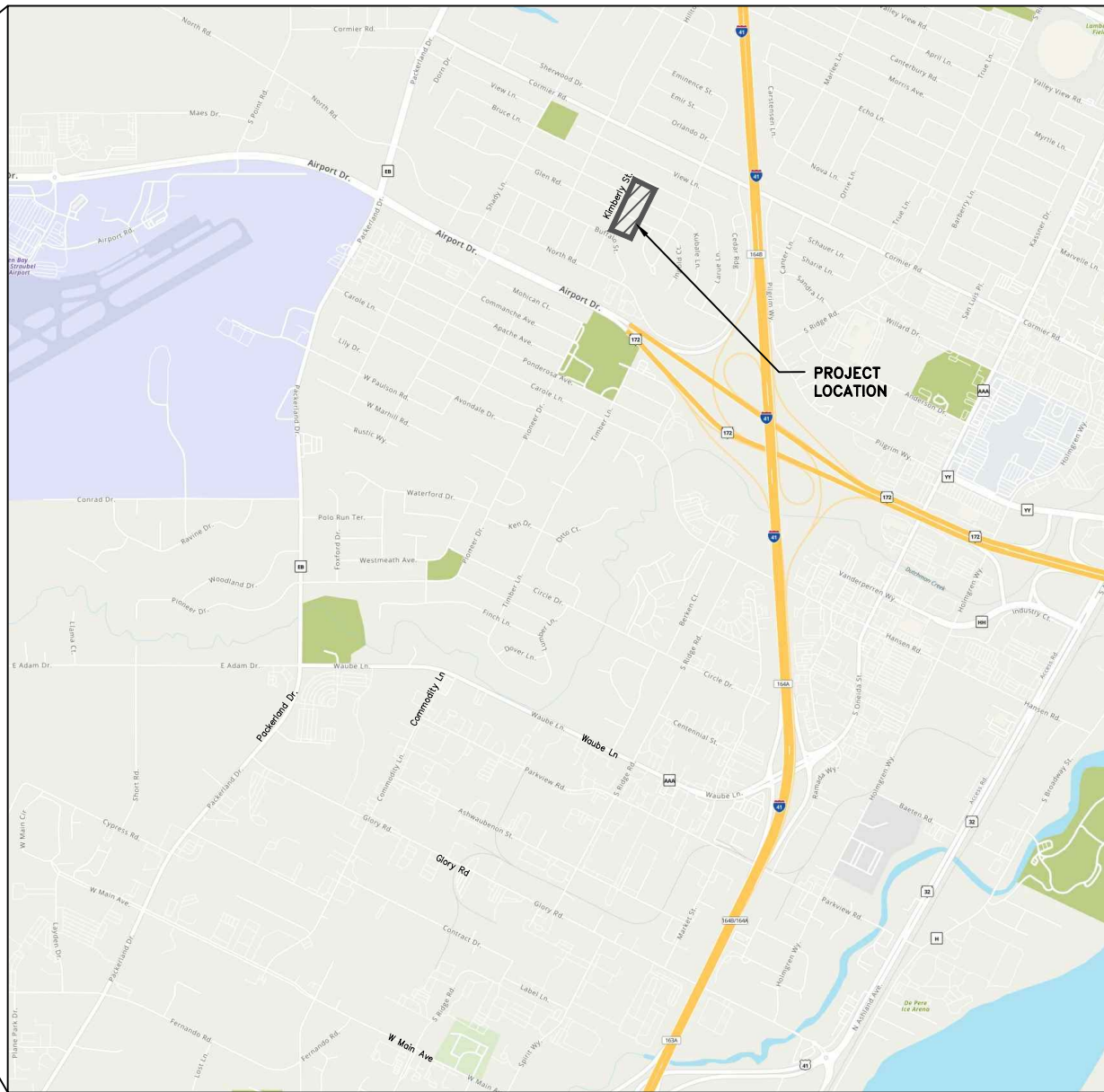
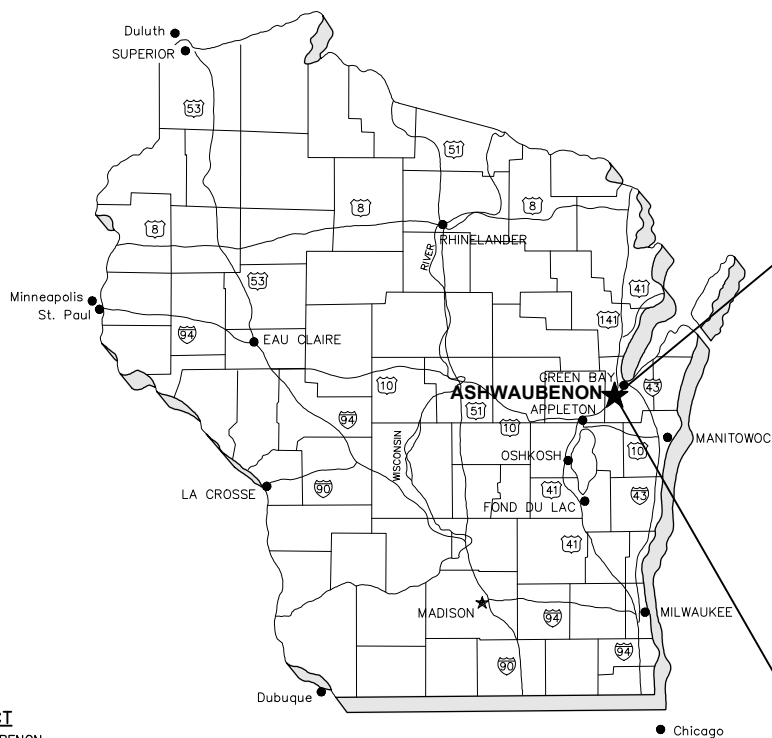


KIMBERLY STREET CULVERT REPLACEMENT

VILLAGE OF ASHWAUBENON

BROWN COUNTY, WISCONSIN
CONTRACT # A0017-09-24-00771



CONTACT INFORMATION

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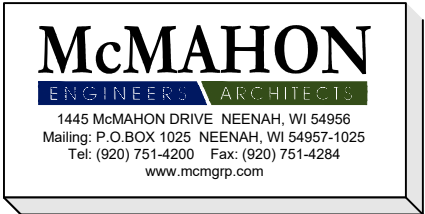
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SHEET INDEX

- 01 - ABBREVIATIONS SYMBOLS NOTES
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- 04 - PROPOSED CULVERT
- 05 - MISCELLANEOUS DETAILS
- 06 - EROSION CONTROL DETAILS



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qschmidt, W:\PROJECTS\A0017\092400771\CADD\Civil3D\Plan Sheets\00 TITLE NOTES DETAILS.dwg, 01 abbreviations_symbols notes, Plot Date: 3/31/2025 2:13 PM, xrefs:none

STANDARD ABBREVIATIONS

AC	ACRE	LT	LEFT
AGG	AGGREGATE	LVC	LENGTH OF VERTICAL CURVE
AH	AHEAD	MAINT	MAINTENANCE
ASPH	ASPHALT PAVEMENT	MAT'L	MATERIAL
AVG	AVERAGE	MAX	MAXIMUM
B-B	BACK TO BACK	MIN	MINIMUM
BEG	BEGIN	MH	MANHOLE
BIT	BITUMINOUS	MP	MILE POST
BK	BACK	NB	NORTHBOUND
B/L	BASE LINE	NO	NUMBER
BLDG	BUILDING	NOR	NORMAL
BM	BENCH MARK	OD	OUTSIDE DIAMETER
BOC	BACK OF CURB	OBLIT	OBLITERATE
BRG	BEARING	PAY'T	PAVEMENT
C-C	CENTER TO CENTER	PC	POINT OF CURVATURE
CY	CUBIC YARD	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE
C&G	CURB AND GUTTER	PE	PRIVATE ENTRANCE
CB	CATCH BASIN	PED	PEDESTAL
CE	COMMERCIAL ENTRANCE	PGL	PROFILE GRADE LINE
CHD	CHORD	PI	POINT OF INTERSECTION
C/L	CENTER LINE	PL	PROPERTY LINE
CL	CLASS (FOR CONC PIPE)	P/L	PERMANENT LIMITED EASEMENT
CMP	CORRUGATED METAL PIPE	PP	CORRUGATED METAL PIPE
CO	CLEAN OUT	PRC	POWER POLE
CONC	CONCRETE	PROP	POINT OF REVERSE CURVATURE
CORR	CORRUGATED	PSD	PROPOSED
CP	CONTROL POINT	PSI	PASSING SIGHT DISTANCE
CR	CRUSHED	PT	POUNDS PER SQUARE INCH
CS	CURB STOP	PVC	POINT OF TANGENCY
CSW	CONCRETE SIDEWALK	PVI	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CTH	COUNTY TRUNK HIGHWAY	PVT	POINT OF VERTICAL INTERSECTION
CULV	CULVERT	R	POINT OF VERTICAL TANGENCY
D	DEPTH OR DELTA	RCP	RADIUS
DI	DUCTILE IRON	RD	REINFORCED CONCRETE PIPE
DIA	DIAMETER	REB	REINFORCEMENT ROD
DIS	DISCHARGE	RD	ROAD
EA	EACH	RECON	RECONSTRUCT
EB	EASTBOUND	REQ'D	REQUIRED
EBS	EXCAVATION BELOW SUBGRADE	R/L	REFERENCE LINE
EG	EDGE OF GRAVEL	RP	RADIUS POINT
ELEV	ELEVATION	RR	RAILROAD
ELEC	ELECTRIC	RT	RIGHT
EMB	EMBANKMENT	R/W	RIGHT-OF-WAY
EMAT	EROSION MAT	SB	SOUTHBOUND
ENT	ENTRANCE	SE	SUPERELEVATION
EOR	END OF RADIUS	SF	SQUARE FEET
EP	EDGE OF PAVEMENT	SI	SLOPE INTERCEPT
EXC	EXCAVATION	STH	STATE TRUNK HIGHWAY
EX	EXISTING	SY	SQUARE YARD
EW	ENDWALL	SALV	SALVAGED
F-F	FACE TO FACE	SAN	SANITARY
FDN	FOUNDATION	SEC	SECTION
FE	FIELD ENTRANCE	SHLDR	SHOULDER
FERT	FERTILIZER	S/L	SURVEY LINE
FG	FINISHED GRADE	SQ	SQUARE
F/L	FLOW LINE	STA	STATION
FT	FOOT	STD	STANDARD
FTG	FOOTING	STO	STORM
GRAV	GRAVEL	SW	SIDEWALK
GN	GRID NORTH	TC	TOP OF CURB
GV	GAS VALVE	TEL	TELEPHONE
HDPE	HIGH DENSITY POLYETHYLENE	TEMP	TEMPORARY
HE	HIGHWAY EASEMENT	TLE	TEMPORARY LIMITED EASEMENT
HMA	HOT MIX ASPHALT	TV	TELEVISION
HP	HIGH POINT	TYP	TYPICAL
HT	HEIGHT	UG	UNDERGROUND
HYD	HYDRANT	USH	U.S. HIGHWAY
ID	INSIDE DIAMETER	VAR	VARIES
IN	INCH	VC	VERTICAL CURVE
INL	INLET	VERT	VERTICAL
INV	INVERT	WB	WESTBOUND
IP	IRON PIPE	WM	WATER MAIN
JCT	JUNCTION	WV	WATER VALVE
LB	POUND		
LF	LINEAR FOOT		
LP	LIGHT POLE		

GENERAL NOTES

- THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING ANY PRIVATE UTILITIES, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY VERTICAL DISCREPANCY.
- EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
- NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER.
- A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.
- ALL CURB RADII SHOWN ON THE PLAN SHEETS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

STANDARD SYMBOLS (PLAN VIEW ONLY)

	2" IRON PIPE FOUND		TELEPHONE CABLE - BURIED
	1 1/4" REBAR FOUND		ELECTRIC CABLE - BURIED
	1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET		UTILITIES - OVERHEAD
	1" (1.315 OD) IRON PIPE FOUND		FIBER OPTIC CABLE - BURIED
	1" IRON PIPE SET		GAS MAIN
	3/4" IRON REBAR FOUND		CABLE TELEVISION - BURIED
	3/4" IRON PIPE FOUND		DITCH LINE
	3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET		STREET C/L OR R/L
	MAG NAIL FOUND		PROPERTY LINE
	MAG NAIL SET		RIGHT-OF-WAY LINE
	MAG SPIKE FOUND		SECTION LINE
	MAG SPIKE SET		EXISTING CONTOURS
	CHISEL CROSS FOUND		PROPOSED CONTOURS
	CHISEL CROSS SET		EXISTING FORCEMAIN SEWER
	COUNTY MONUMENT		EXISTING SANITARY SEWER
	CONCRETE MONUMENT FOUND		PROPOSED SANITARY SEWER
	CONTROL POINT HORIZONTAL		EXISTING WATER MAIN
	VERTICAL BENCHMARK		PROPOSED WATER MAIN
	SOIL BORING or MONITORING WELL		EXISTING STORM SEWER
	POWER POLE		PROPOSED STORM SEWER
	POWER POLE W/GUY WIRE		EXISTING CURB & GUTTER
	TELEPHONE OR TELEVISION PEDESTAL		PROPOSED CURB & GUTTER
	MAILBOX		PROPOSED REJECT CURB & GUTTER
	SIGN		EXISTING CULVERT WITH END SECTIONS
	RAILROAD CROSS BUCK		PROPOSED CULVERT WITH END SECTIONS
	RAILROAD GATE ARM		BUILDING OUTLINE
	RAILROAD TRACKS		FENCE LINE
	LIGHT POLE		SAW CUT REQ'D
	WOOD POLE		SILT FENCE
	TRAFFIC SIGNAL		GUARD RAIL
	TRAFFIC SIGNAL MAST ARM		DITCH CHECK
	CONIFEROUS TREE		INLET PROTECTION
	DECIDUOUS TREE		TRACKING PAD
	TREE OR BRUSH LINE		TURBIDITY BARRIER OR SHEET PILING
	BED ROCK (IN PROFILE VIEW)		SANDBAG COFFERDAM
	HANDICAPPED PARKING STALL		SLOPE INTERCEPT
	EXISTING SPOT ELEVATION		LIMITS OF DISTURBANCE
	PROPOSED SPOT ELEVATION		ASPHALT PAVEMENT
	DRAINAGE HIGH POINT		CONCRETE SIDEWALK/DRIVEWAY
	DRAINAGE DIRECTION		GRAVEL
	EXISTING MANHOLE		RIP-RAP (SIZE AS SPECIFIED)
	PROPOSED MANHOLE		EROSION MAT
	EXISTING INLET		EXISTING DELINEATED WETLANDS
	PROPOSED INLET		
	EXISTING YARD DRAIN		
	PROPOSED YARD DRAIN		
	EXISTING CLEAN OUT		
	PROPOSED CLEAN OUT		
	EXISTING DOWNSPOUT		
	PROPOSED DOWNSPOUT		
	EXISTING WATER VALVE		
	PROPOSED WATER VALVE		
	EXISTING CURB STOP		
	PROPOSED CURB STOP		
	EXISTING FIRE HYDRANT		
	PROPOSED FIRE HYDRANT		
	PROPOSED WATER FITTING		
	PROPOSED WATER REDUCER		
	PROPOSED ENDCAP		
	GAS VALVE		

EROSION & SEDIMENT CONTROL PLAN

BEST MANAGEMENT PRACTICES:

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS. THESE STANDARDS MAY BE FOUND ON THE DNR WEBSITE AT <http://www.dnr.wi.gov/runoff/stormwater/techstds.htm>. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 606, WS-DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, UNTIL TECHNICAL STANDARD 1065 IS COMPLETED BY THE DNR. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

[] LAND APPLICATION OF POLYACRYLAMIDE (1050)	[X] DE-WATERING (1061)
[] WATER APPLICATION OF POLYMERS (1051)	[] DITCH CHECK (1062)
[] NON-CHANNEL EROSION MAT (1052)	[] SEDIMENT TRAP (1063)
[X] CHANNEL EROSION MAT (1053)	[] SEDIMENT BASIN (1064)
[] VEGETATIVE BUFFER (1054)	[X] RIP-RAP (1065)
[] SEDIMENT BALE BARRIER (1055)	[] CONSTRUCTION DIVERSION (1066)
[X] SILT FENCE (1056)	[] GRADING PRACTICES (1067)
[X] TRACKING PAD & TIRE WASHING (1057)	[X] DUST CONTROL (1068)
[X] MULCHING (1058)	[] TURBIDITY BARRIER (1069)
[X] SEEDING (1059)	[] SILT CURTAIN (1070)
[X] STORM DRAIN INLET PROTECTION (1060)	[] MANUFACTURED PERIMETER PRODUCTS (1071)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND IMPLEMENT BEST MANAGEMENT PRACTICES TO PREVENT OR REDUCE ALL OF THE FOLLOWING:

- DEPOSITION OR TRACKING OF SOIL ONTO STREETS BY VEHICLES.
- DISCHARGE OF SEDIMENT INTO STORM WATER INLETS.
- DISCHARGE OF SEDIMENT INTO ADJACENT STREAMS, RIVERS, LAKES AND WETLANDS.
- DISCHARGE OF SEDIMENT FROM DITCHES AND STORM SEWERS THAT FLOW OFFSITE.
- DISCHARGE OF SEDIMENT FROM DEWATERING ACTIVITIES.
- DISCHARGE OF SEDIMENT FROM SOIL STOCKPILES EXISTING FOR 7 DAYS OR MORE.
- DISCHARGE OF SEDIMENT FROM EROSION OUTLET FLOWS.
- TRANSPORT OF CHEMICALS, CEMENT AND BUILDING MATERIALS BY RUNOFF.
- TRANSPORT OF UNTREATED VEHICLE AND WHEEL WASH WATER BY RUNOFF.

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PREVENTATIVE MEASURES:

- PRESERVE EXISTING VEGETATION WHENEVER POSSIBLE.
- MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.
- MINIMIZE LAND DISTURBANCES ON SLOPES OF 20% OR MORE.
- MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.
- DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS.
- TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 14 DAYS OR MORE. USE MULCHING, SEEDING, POLYACRYLAMIDE OR GRAVELING TO STABILIZE.
- PERMANENTLY STABILIZE EXPOSED SOILS AS SOON AS POSSIBLE.
- CONTRACTOR SHALL EDUCATE ITS EMPLOYEES AND SUBCONTRACTORS ABOUT PROPER SPILL PREVENTION AND RESPONSE PROCEDURES. IF A SPILL OCCURS, THE CONTRACTOR SHALL EVACUATE THE AREA AND IMMEDIATELY NOTIFY THE LOCAL MUNICIPALITY, FIRE DEPARTMENT OR 911 EMERGENCY SYSTEM. IF NO FIRE, EXPLOSION OR LIFE / HEALTH SAFETY HAZARD EXISTS, THE NEXT STEP IS TO CONTAIN THE SPILL AND PERFORM CLEANUP. USE DRY CLEANUP METHODS, NOT WET.

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING BEST MANAGEMENT PRACTICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES BY THE END OF THE WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING BEST MANAGEMENT PRACTICES TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY AS SOON AS THOSE ACTIVITIES ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF TEMPORARY BEST MANAGEMENT PRACTICES AFTER CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION IS ESTABLISHED.

INSPECTION & MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING BEST MANAGEMENT PRACTICES WEEKLY, AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. WRITTEN DOCUMENTATION OF EACH INSPECTION SHALL BE KEPT AT THE CONSTRUCTION SITE AND SHALL INCLUDE THE FOLLOWING INFORMATION: DATE, TIME, AND LOCATION OF INSPECTION; NAME OF INDIVIDUAL WHO PERFORMED THE INSPECTION; AN ASSESSMENT OF THE CONDITION OF BEST MANAGEMENT PRACTICES; A DESCRIPTION OF ANY BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED; AND A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING, MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%.

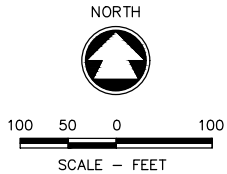
THE CONTRACTOR IS RESPONSIBLE FOR POSTING THE PERMIT IN A CONSPICUOUS LOCATION ON THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING A COPY OF THE APPROVED REPORTS, PLANS, AMENDMENTS, INSPECTION REPORTS, AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER WHEN THE VEGETATIVE DENSITY REACHES AT LEAST 70%. THE OWNER IS RESPONSIBLE FOR TERMINATING DNR PERMIT COVERAGE.

AMENDMENTS:

THE CONTRACTOR IS RESPONSIBLE FOR AMENDING THE EROSION & SEDIMENT CONTROL PLAN IF: THERE IS A CHANGE IN CONSTRUCTION, OPERATION OR MAINTENANCE AT THE SITE WHICH HAS THE REASONABLE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS; THE ACTIONS REQUIRED BY THE PLAN FAIL TO REDUCE THE IMPACTS OF POLLUTANTS CARRIED BY CONSTRUCTION SITE RUNOFF; OR IF THE DNR NOTIFIES THE APPLICANT OF CHANGES NEEDED IN THE PLAN. THE DNR AND OWNER SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO MAKING CHANGES TO THE PLAN.

NO.	DATE	REVISION

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HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
1	559636.82	80157.73	MAG NAIL
2	560035.76	80351.37	MAG NAIL

VERTICAL BENCHMARK CONTROL		
POINT #	ELEVATION	DESCRIPTION
3	625.04	HYDRANT BURY BOLT
4	627.93	HYDRANT BURY BOLT

NOTE:
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ALSO VERIFY HORIZONTAL CONTROL BY FIELD CHECKING SEVERAL CONTROL POINTS AND SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY DISCREPANCIES.

VERTICAL DATUM
ELEVATIONS ARE REFERENCED TO NGS DATA:
CONTROL POINT NAME: 4K81
POINT ID: DL2613 NAVD 88 DATUM
BY GPS OBSERVATION TO ELEVATION = 673.02 (2012 ADJUSTMENT)
PER FIELD BOOK 1529 PAGE 32

HORIZONTAL DATUM:
COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM AS PUBLISHED FOR BROWN COUNTY NAD 83 (1991)

KIMBERLY AVENUE CULVERT REPLACEMENT
VILLAGE OF ASHWAUBENON, BROWN CO., WI
SURVEY CONTROL

DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017-09-24-00771	
DATE MAR., 2025	
SHEET NO.	

02

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DATE

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ENGINEER-ARCHITECT
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PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

EX 4" STO MH
F/L 621.46
NW INV 618.76 12"
E INV 618.76 12"
SW INV 618.50 15"
NE INV 618.36 15"
D 3.10

SCALE - FEET
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20

EX 15" STO

EX 15" SAN

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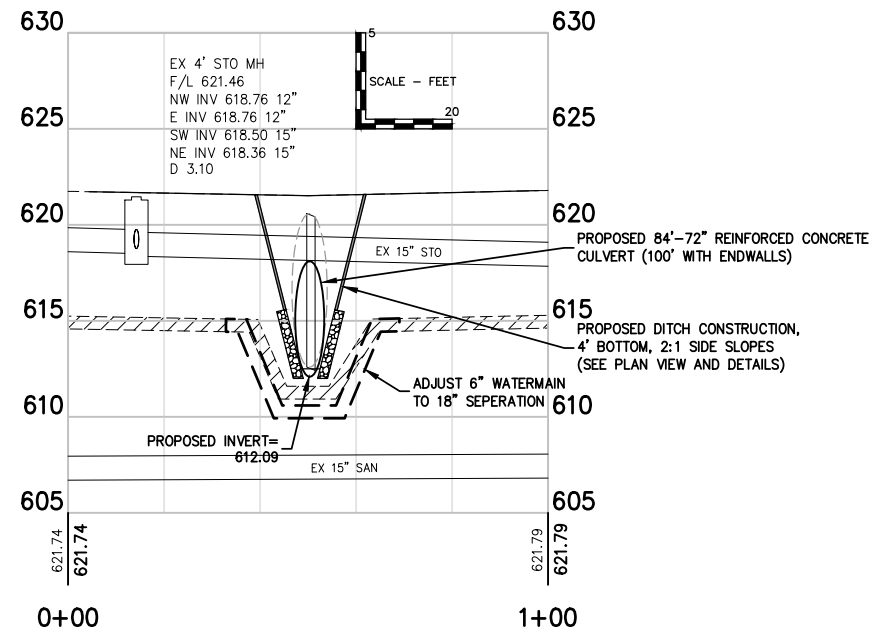
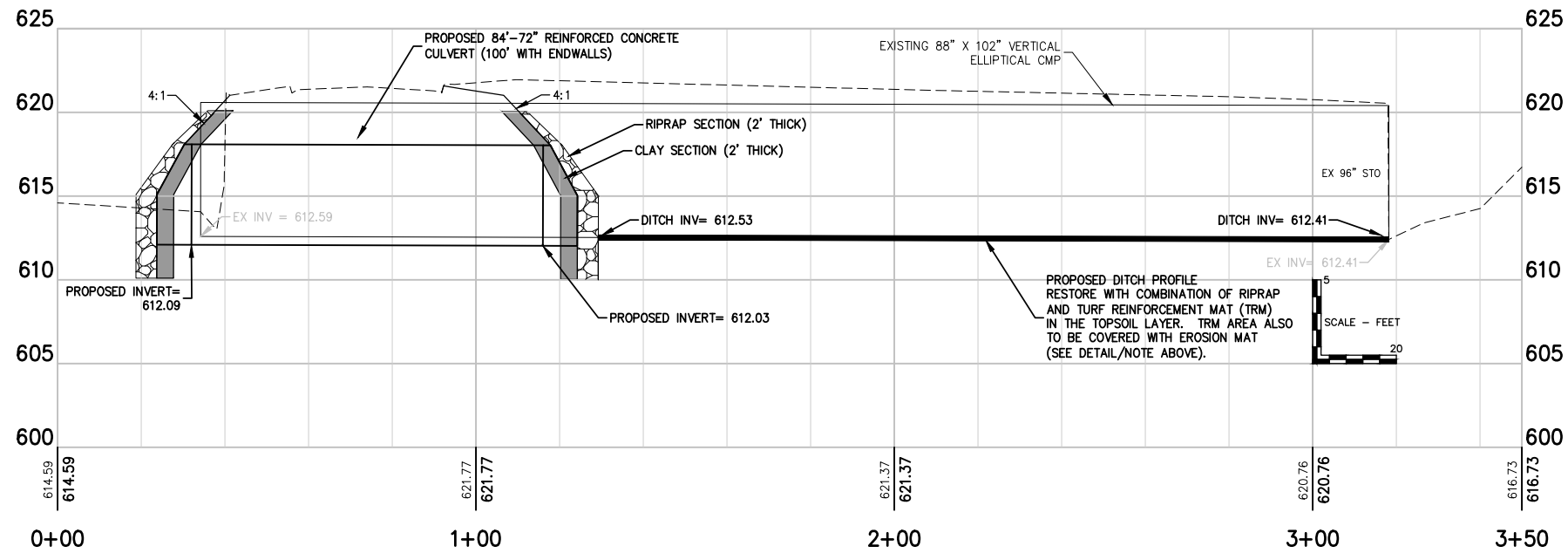
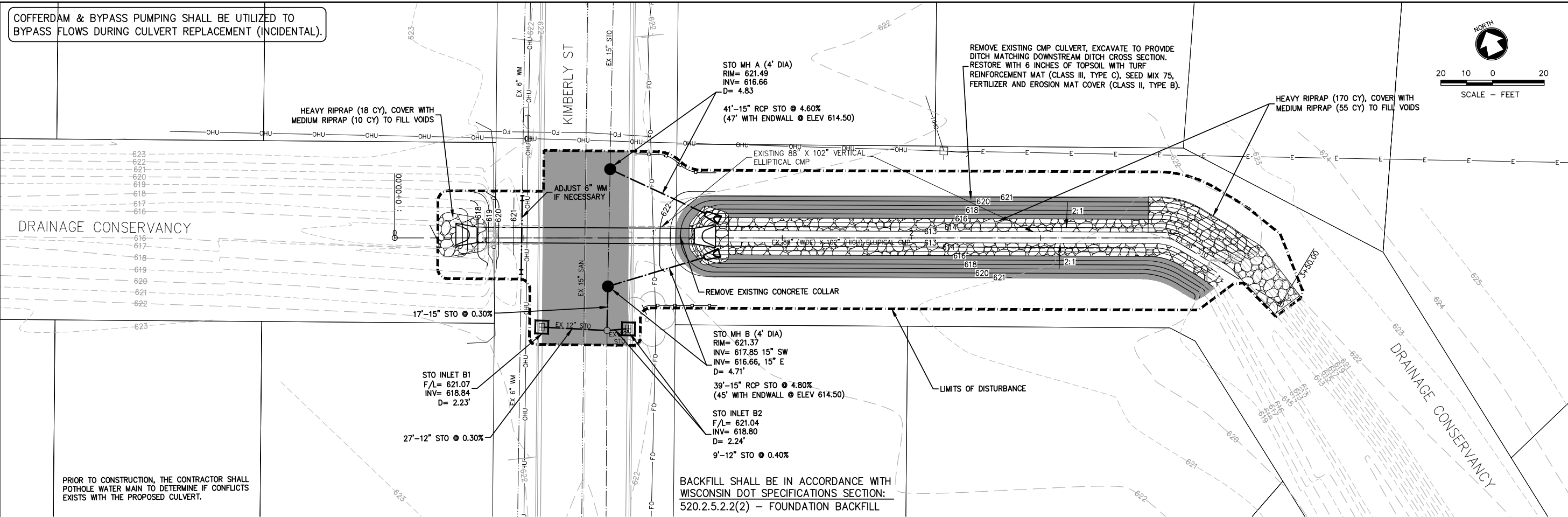
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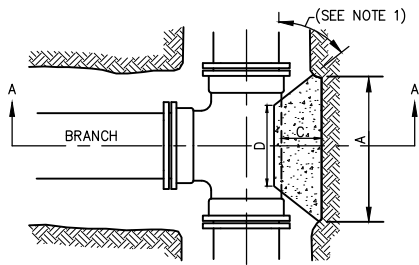
03

W:\PROJECTS\A0017\092400771\CADD\Civil3D\C3D Source\04 PROPOSED_CULVERT.dwg, 04 proposed culvert, Plot Date: 3/31/2025 2:13 PM, xrefs: (x=parcels, x=existing topo kimberly avenue, x=oil points kimberly avenue, x=cestral kimberly avenue, surface water=co-brown



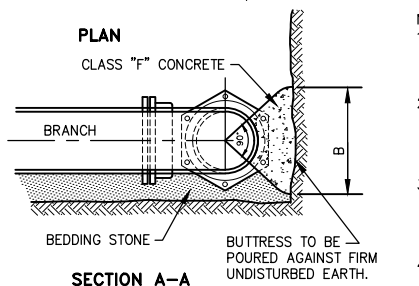
McMAHON ENGINEERING ARCHITECTS	
McMAHON ASSOCIATES, INC. 1445 McMAHON DRIVE NEENAH, WI 54956 Mailing: P.O. BOX 1025 NEENAH, WI 54957-1025 PH 920.751.4200 FX 920.751.4284 MCMGRP.COM	
DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017-09-24-00771	
DATE MAR., 2025	
SHEET NO. 04	

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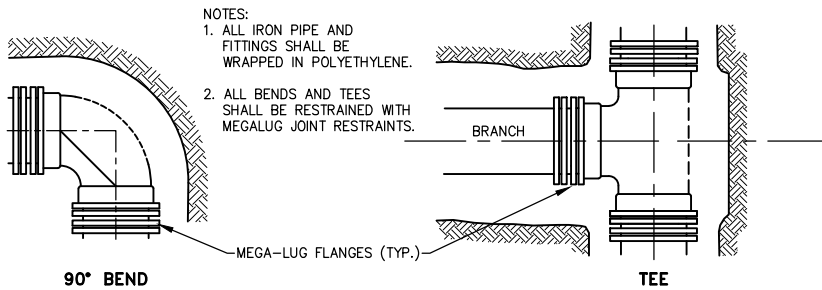
BUTTRESS DIMENSIONS				
B.D.	A	B	C	D
6"	1'-3"	1'-0"	SEE NOTE 1	SEE NOTE 2
8"	1'-6"	1'-4"		
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-0"		
24"	5'-3"	3'-4"	SEE NOTE 1	SEE NOTE 2
30"	6'-6"	4'-3"		

B.D. = BRANCH DIAMETER



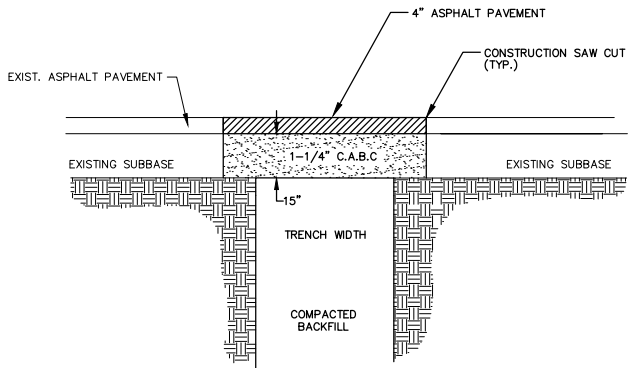
- NOTES:
- DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE EQUAL TO OR LARGER THAN 45°.
 - DIMENSION "D" EQUALS APPROX. I.D. OF PIPE LESS 2". AN EFFORT SHOULD BE MADE TO PREVENT THE CONCRETE FROM COVERING THE M.J. BOLTS.
 - WHERE BUTTRESSES ARE NOT POSSIBLE BECAUSE OF POOR SOIL CONDITIONS OR LACK OF ROOM, STRAPPING SHALL BE PERMITTED.
 - DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND ON EARTH RESISTANCE OF 2 TONS PER SQ. FT.
 - ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
 - ALL FITTINGS SHALL BE EPOXY COATED.

BLOCKING FOR TEES

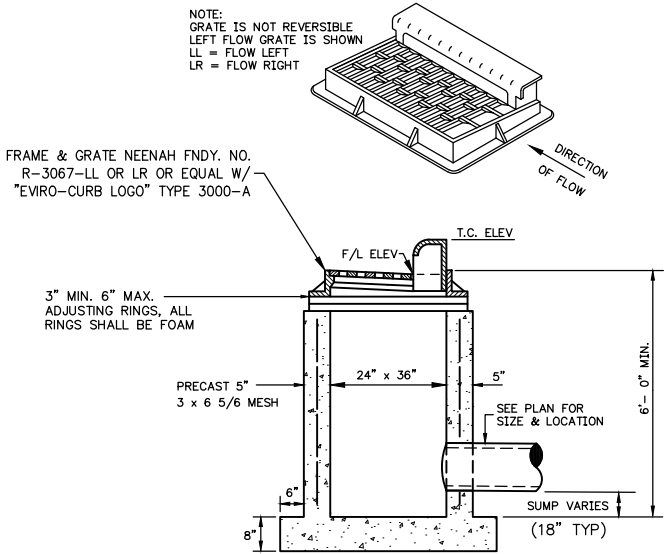


RESTRAINT FOR BENDS & TEES

FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON SSB OR CAST IRON WITH STAINLESS STEEL NUTS AND BOLTS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 350 PSI. ALL FITTINGS SHALL BE EPOXY COATED.

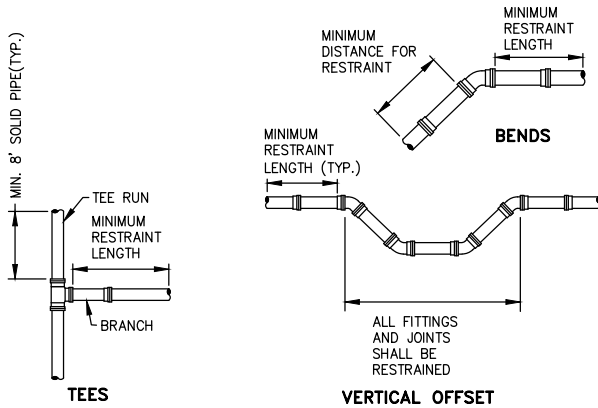


BITUMINOUS PAVEMENT RESTORATION

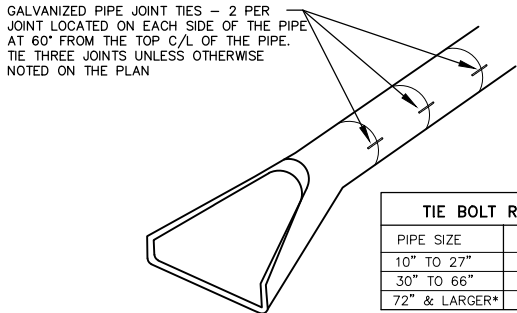


CATCH BASIN DETAIL (CURB & GUTTER AREAS)

Minimum Restraint Length (ft) on both sides of the Fitting				
Fitting Type/Nominal Size	6"	8"	12"	16"
11 1/4" Bend	2	2	3	3
22 1/2" Bend	3	3	5	6
45" Bend	5	6	9	11
90" Bend	11	15	21	27
Dead End	30	40	56	73
Top Side of a Vertical Offset	13	17	24	31
Tee Run x Branch 6"BY	14			
Tee Run x Branch 8"BY	10	24		
Tee Run x Branch 12"BY	1	15	40	
Tee Run x Branch 16"BY	1	7	33	56



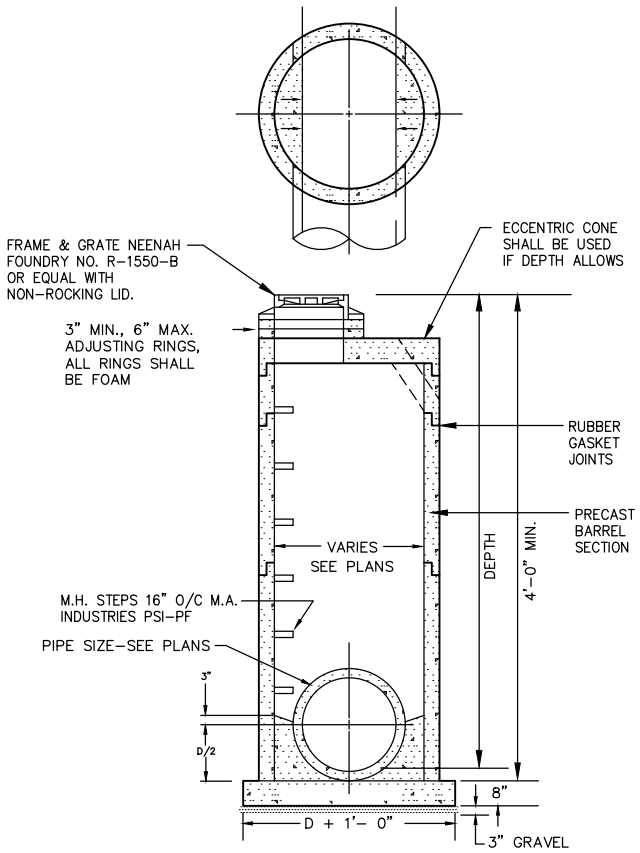
WATER MAIN RESTRAINT DETAIL



TIE BOLT REQUIREMENTS		
PIPE SIZE	BAR DIA.	BOLTS
10" TO 27"	5/8"	32"
30" TO 66"	3/4"	32"
72" & LARGER*	1"	32"

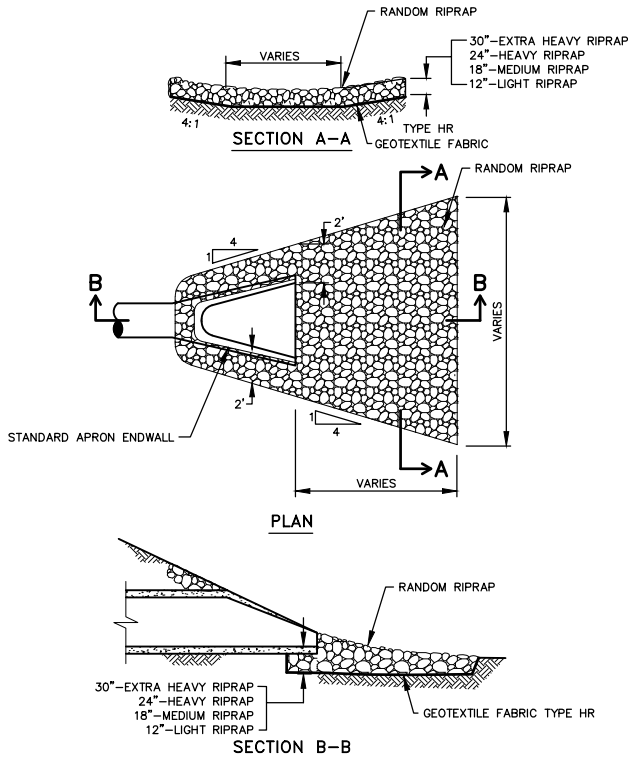
* INCLUDES CONCRETE BOX

CONCRETE APRON DETAIL



STORM MH DETAIL

- RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 606, WIS-DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
- RIP-RAP SHALL BE ANGULAR. ROUND RIP-RAP IS NOT PERMITTED.



RIPRAP AT STORM SEWER OUTFALL

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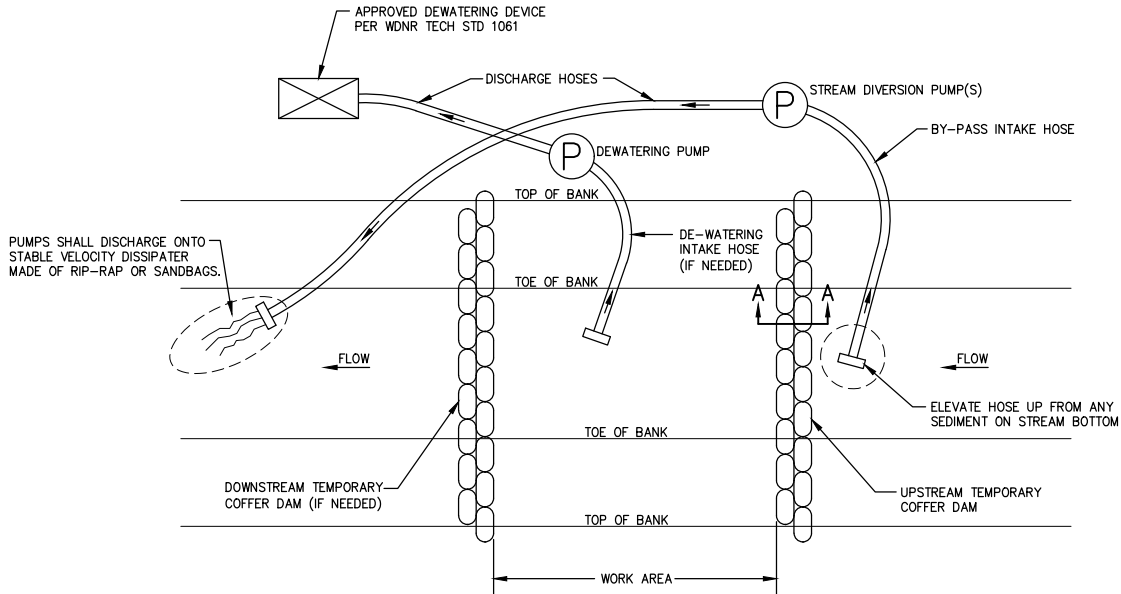
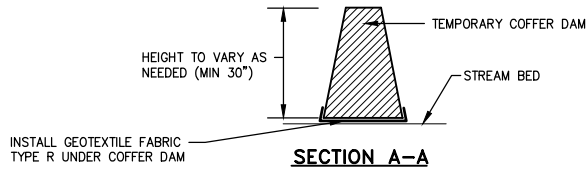
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REVISION		DATE		NO.	

KIMBERLY STREET CULVERT REPLACEMENT
VILLAGE OF ASHWAUBENON, BROWN CO., WI
MISCELLANEOUS DETAILS

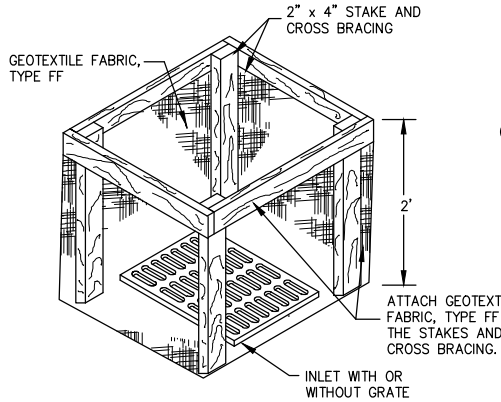
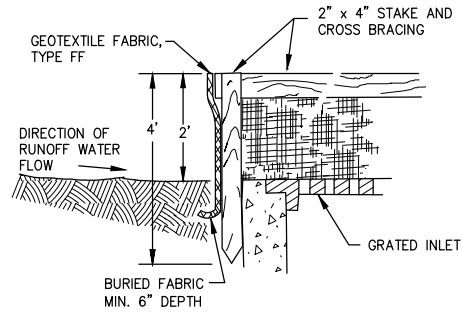
DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017-09-24-00771	
DATE MAR., 2025	
SHEET NO. 05	

gschmidt, W:\PROJECTS\A0017\092400771\CADD\Plan Sheets\00 TITLE NOTES DETAILS.dwg, 06 erosion control details, Plot Date: 3/31/2025 2:14 PM, xrefs:none



- NOTES:
1. COFFER DAM MAY BE SHEET PILE, CONCRETE JERSEY BARRIERS, SANDBAGS OR OTHER DEVICES AS APPROVED BY WDNR
 2. BY-PASS PUMPING SHALL ONLY BE COMPLETED DURING LOW FLOW CONDITIONS.
 3. DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061, IF NECESSARY
 4. DISCHARGE FROM DEWATERING DEVICES SHALL DRAIN BACK INTO THE CHANNEL DOWNSTREAM OF SEDIMENT COFFER DAM.

TEMPORARY COFFER DAM & BY-PASS PUMPING DETAIL



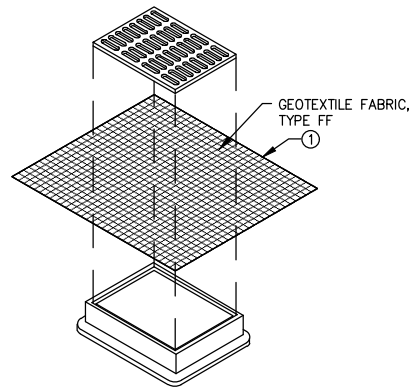
INLET PROTECTION, TYPE A

GENERAL NOTES

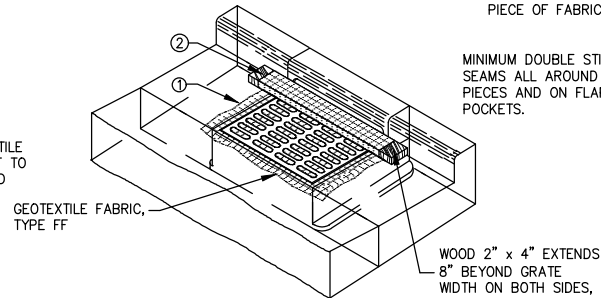
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1 FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- 2 FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- 3 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE B (WITHOUT CURB BOX) (CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

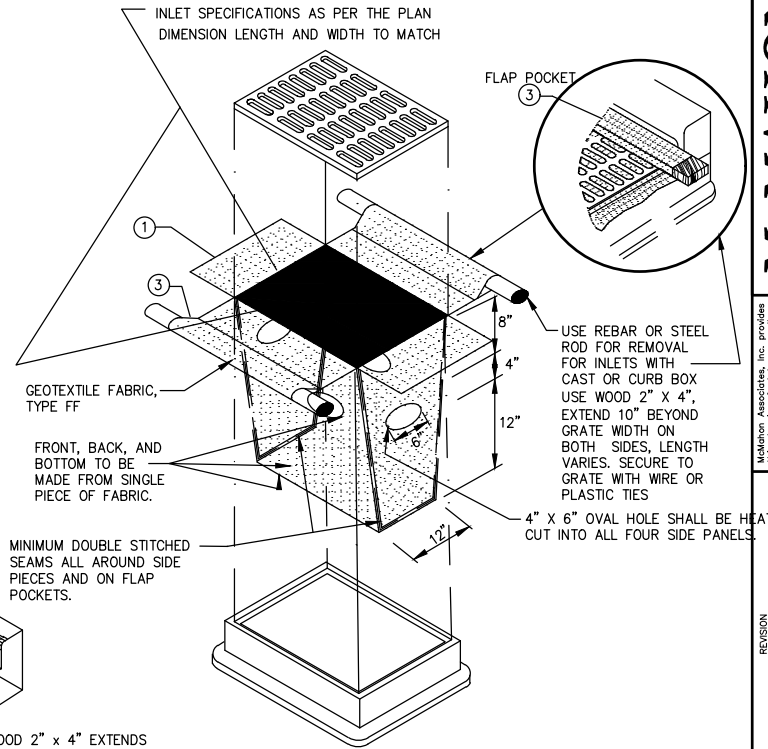
INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

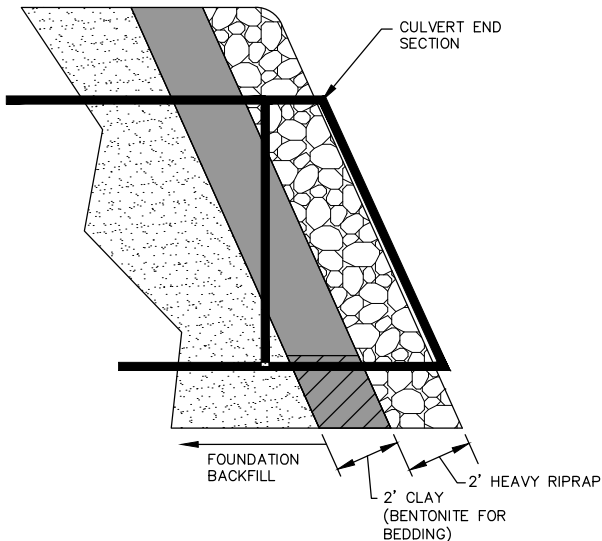
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



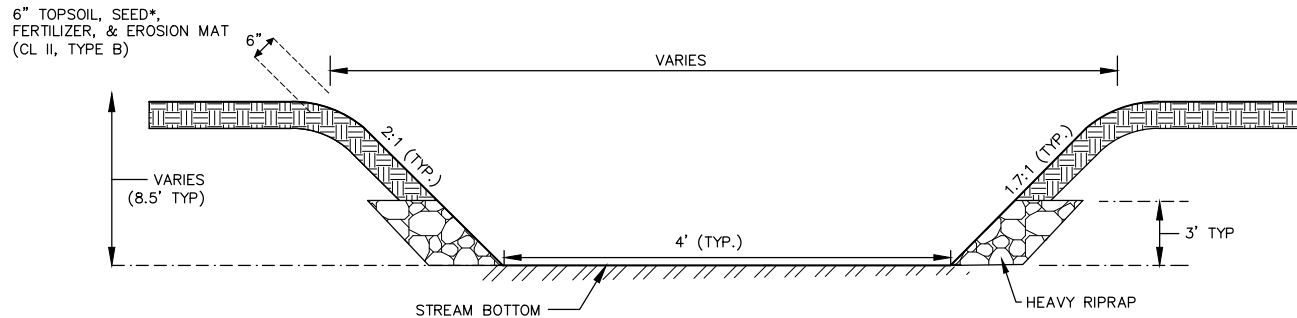
INLET PROTECTION, TYPE D (CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE 2)

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 10-2.

STORM DRAIN INLET PROTECTION



CULVERT ENDWALL BACKFILL SECTION



PROPOSED STREAM CROSS SECTION (TYP.)

*DOT SEED MIX 75

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NO.	DATE	REVISION

KIMBERLY STREET CULVERT REPLACEMENT
VILLAGE OF ASHWAUBENON, BROWN CO., WI
EROSION CONTROL DETAILS

DESIGNED AWS	DRAWN AWS
PROJECT NO. A0017-09-24-00771	
DATE MAR., 2025	
SHEET NO. 06	