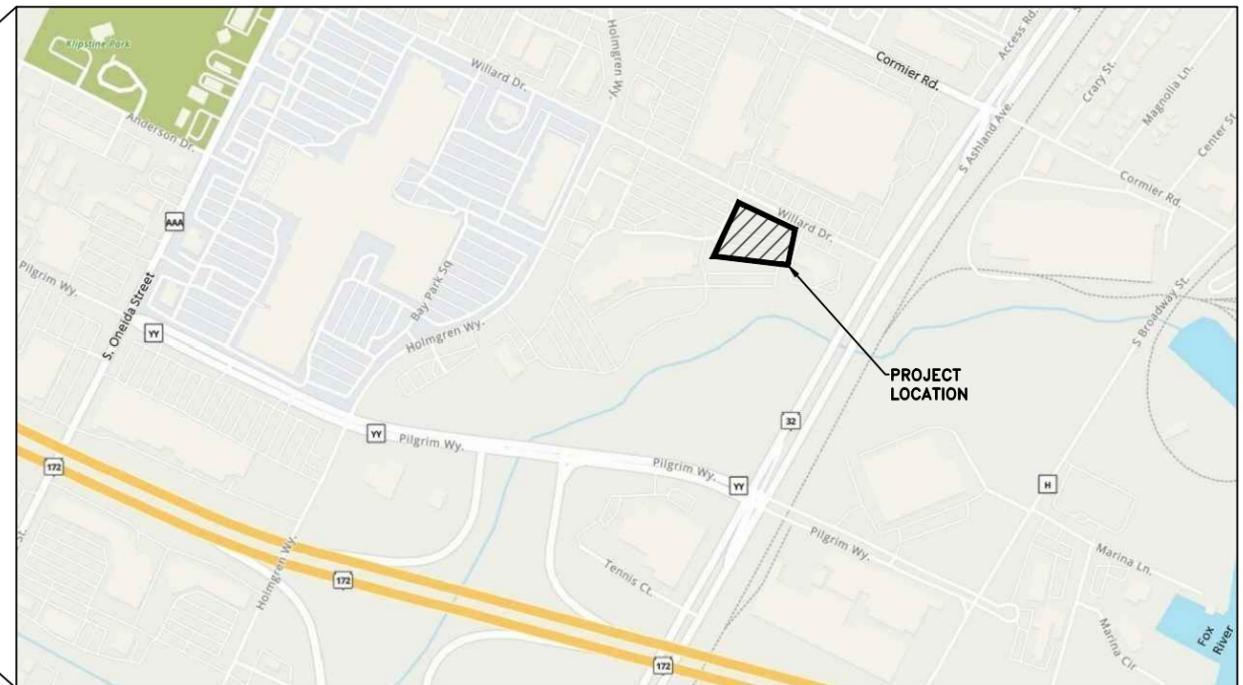
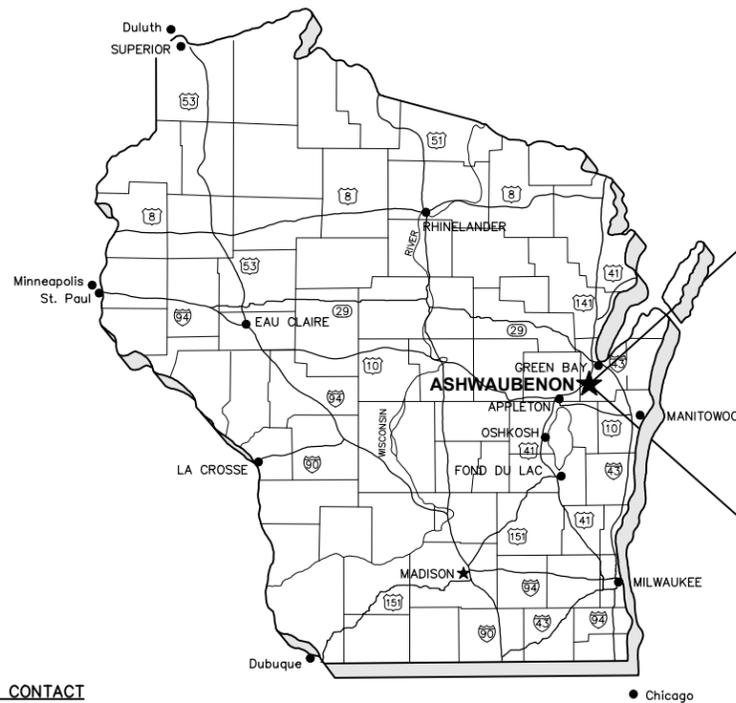


WILLARD POND VILLAGE OF ASHWAUBENON

BROWN COUNTY, WISCONSIN
MCM # A0017-09-24-00342



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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	PAV'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	P/L	PROPERTY LINE
CL	CLASS (FOR CONC PIPE)	P/L	PERMANENT LIMITED EASEMENT
CMP	CORRUGATED METAL PIPE	P/LE	CORRUGATED METAL PIPE
CO	CLEAN OUT	PP	POWER POLE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CORR	CORRUGATED	PROP	PROPOSED
CP	CONTROL POINT	PSD	PASSING SIGHT DISTANCE
CR	CRUSHED	PSI	POUNDS PER SQUARE INCH
CS	CURB STOP	PT	POINT OF TANGENCY
CSW	CONCRETE SIDEWALK	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CTH	COUNTY TRUNK HIGHWAY	PVI	POINT OF VERTICAL INTERSECTION
CULV	CULVERT	PVT	POINT OF VERTICAL TANGENCY
D	DEPTH OR DELTA	R	RADIUS
DI	DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RD	ROAD
DIS	DISCHARGE	REBAR	REINFORCEMENT ROD
EA	EACH	REM	REMOVE
EB	EASTBOUND	RECON	RECONSTRUCT
EBS	EXCAVATION BELOW SUBGRADE	REQ'D	REQUIRED
EG	EDGE OF GRAVEL	R/L	REFERENCE LINE
ELEV	ELEVATION	RP	RADIUS POINT
ELEC	ELECTRIC	RR	RAILROAD
EMB	EMBANKMENT	RT	RIGHT
EMAT	EROSION MAT	R/W	RIGHT-OF-WAY
ENT	ENTRANCE	SB	SOUTHBOUND
EOR	END OF RADIUS	SE	SUPERELEVATION
EP	EDGE OF PAVEMENT	SF	SQUARE FEET
EXC	EXCAVATION	SI	SLOPE INTERCEPT
EX	EXISTING	SIH	STATE TRUNK HIGHWAY
EW	ENDWALL	SY	SQUARE YARD
F-F	FACE TO FACE	SALV	SALVAGED
FDN	FOUNDATION	SAN	SANITARY
FE	FIELD ENTRANCE	SEC	SECTION
FERT	FERTILIZER	SHLDR	SHOULDER
FG	FINISHED GRADE	S/L	SURVEY LINE
F/L	FLOW LINE	SQ	SQUARE
FT	FOOT	STA	STATION
FTG	FOOTING	STD	STANDARD
GRAV	GRAVEL	STO	STORM
GN	GRID NORTH	SW	SIDEWALK
GV	GAS VALVE	TC	TOP OF CURB
HDPE	HIGH DENSITY POLYETHYLENE	TEL	TELEPHONE
HE	HIGHWAY EASEMENT	TEMP	TEMPORARY
HMA	HOT MIX ASPHALT	TLE	TEMPORARY LIMITED EASEMENT
HP	HIGH POINT	TV	TELEVISION
HT	HEIGHT	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INSIDE DIAMETER	USH	U.S. HIGHWAY
IN	INCH	VAR	VARIES
INL	INLET	VC	VERTICAL CURVE
INV	INVERT	VERT	VERTICAL
IP	IRON PIPE	WB	WESTBOUND
JCT	JUNCTION	WM	WATER MAIN
LB	POUND	WV	WATER VALVE
LF	LINEAR FOOT		
LP	LIGHT POLE		

GENERAL NOTES

1. 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.
2. 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.
3. EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER.
5. A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.

STANDARD SYMBOLS (PLAN VIEW ONLY)

■	2" IRON PIPE FOUND	—T—	TELEPHONE CABLE - BURIED
✕	1 1/4" REBAR FOUND	—E—	ELECTRIC CABLE - BURIED
✕	1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET	—OHU—	UTILITIES - OVERHEAD
●	1" (1.315 OD) IRON PIPE FOUND	—FO—	FIBER OPTIC CABLE - BURIED
⊙	1" IRON PIPE SET	—G—	GAS MAIN
✕	3/4" IRON REBAR FOUND	—TV—	CABLE TELEVISION - BURIED
⊙	3/4" IRON PIPE FOUND	—D—	DITCH LINE
⊙	3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET	—S—	STREET C/L OR R/L
■	MAG NAIL FOUND	—P—	PROPERTY LINE
□	MAG NAIL SET	—R—	RIGHT-OF-WAY LINE
▲	MAG SPIKE FOUND	—S—	SECTION LINE
△	MAG SPIKE SET	—746—	EXISTING CONTOURS
✕	CHISEL CROSS FOUND	—746—	PROPOSED CONTOURS
✕	CHISEL CROSS SET	—SAN—	EXISTING FORCEMAIN SEWER
⊙	COUNTY MONUMENT	—SAN—	EXISTING SANITARY SEWER
■	CONCRETE MONUMENT FOUND	—WM—	PROPOSED SANITARY SEWER
⊙	CONTROL POINT HORIZONTAL	—WM—	EXISTING WATER MAIN
⊕	VERTICAL BENCHMARK	—STO—	PROPOSED WATER MAIN
⊙ ^{SB or MW}	SOIL BORING or MONITORING WELL	—STO—	EXISTING STORM SEWER
□	POWER POLE	—STO—	PROPOSED STORM SEWER
⊕	POWER POLE W/GUY WIRE	—G—	EXISTING CURB & GUTTER
⊕	TELEPHONE OR TELEVISION PEDESTAL	—G—	PROPOSED CURB & GUTTER
□ ^{MB}	MAILBOX	—G—	PROPOSED REJECT CURB & GUTTER
4	SIGN	—G—	EXISTING CULVERT WITH END SECTIONS
⊕	RAILROAD CROSS BUCK	—G—	PROPOSED CULVERT WITH END SECTIONS
⊕	RAILROAD GATE ARM	—G—	BUILDING OUTLINE
⊕	RAILROAD TRACKS	—G—	FENCE LINE
⊕	LIGHT POLE	—G—	SAW CUT REQ'D
⊕	WOOD POLE	—G—	PERIMETER CONTROL
⊕	TRAFFIC SIGNAL	—G—	GUARD RAIL
⊕	TRAFFIC SIGNAL MAST ARM	—G—	DITCH CHECK
⊕	CONIFEROUS TREE	—G—	INLET PROTECTION
⊕	DECIDUOUS TREE	—G—	TRACKING PAD
⊕	TREE OR BRUSH LINE	—G—	TURBIDITY BARRIER OR SHEET PILING
⊕	BED ROCK (IN PROFILE VIEW)	—G—	SANDBAG COFFERDAM
⊕	HANDICAPPED PARKING STALL	—G—	SLOPE INTERCEPT
⊕	EXISTING SPOT ELEVATION	—G—	LIMITS OF DISTURBANCE
⊕	PROPOSED SPOT ELEVATION	—G—	EXISTING PROPOSED
⊕	DRAINAGE HIGH POINT	—G—	ASPHALT PAVEMENT
⊕	DRAINAGE DIRECTION	—G—	CONCRETE SIDEWALK/DRIVEWAY
⊕	EXISTING MANHOLE	—G—	GRAVEL
⊕	PROPOSED MANHOLE	—G—	RIP-RAP (SIZE AS SPECIFIED)
⊕	EXISTING INLET	—G—	PROPOSED EROSION MAT
⊕	PROPOSED INLET	—G—	
⊕	EXISTING YARD DRAIN	—G—	
⊕	PROPOSED YARD DRAIN	—G—	
⊕	EXISTING CLEAN OUT	—G—	
⊕	PROPOSED CLEAN OUT	—G—	
⊕	EXISTING DOWNSPOUT	—G—	
⊕	PROPOSED DOWNSPOUT	—G—	
⊕	EXISTING WATER VALVE	—G—	
⊕	PROPOSED WATER VALVE	—G—	
⊕	EXISTING CURB STOP	—G—	
⊕	PROPOSED CURB STOP	—G—	
⊕	EXISTING FIRE HYDRANT	—G—	
⊕	PROPOSED FIRE HYDRANT	—G—	
⊕	PROPOSED WATER FITTING	—G—	
⊕	PROPOSED WATER REDUCER	—G—	
⊕	PROPOSED ENDCAP	—G—	
⊕	GAS VALVE	—G—	

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, WIS-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 ADDITIVES (1050) | [] DE-WATERING (1061) |
| [] WATER APPLICATION OF ADDITIVES (1051) | [] DITCH CHECK (1062) |
| [X] NON-CHANNEL EROSION MAT (1052) | [] SEDIMENT TRAP (1063) |
| [] CHANNEL EROSION MAT (1053) | [] SEDIMENT BASIN (1064) |
| [] VEGETATIVE BUFFER (1054) | [X] RIP-RAP (1065) |
| [] SEDIMENT BALE BARRIER (1055) | [] CONSTRUCTION DIVERSION (1066) |
| [] PERIMETER SEDIMENT CONTROL (1056) | [] TEMPORARY GRADING PRACTICES (1067) |
| [X] TRACKOUT CONTROL (1057) | [X] DUST CONTROL (1068) |
| [X] MULCHING (1058) | [] TURBIDITY BARRIER (1069) |
| [X] SEEDING (1059) | [] SILT CURTAIN (1070) |
| [X] STORM DRAIN INLET PROTECTION (1060) | [] HORIZONTAL DIRECTIONAL DRILLING (1072) |

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

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

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PREVENTATIVE MEASURES:

- A. PRESERVE EXISTING VEGETATION WHENEVER POSSIBLE.
- B. MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.
- C. MINIMIZE LAND DISTURBANCES ON SLOPES OF 20% OR MORE.
- D. MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.
- E. DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS.
- F. TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 14 DAYS OR MORE. USE MULCHING, SEEDING, POLYACRYLAMIDE OR GRAVELING TO STABILIZE.
- G. PERMANENTLY STABILIZE EXPOSED SOILS AS SOON AS POSSIBLE.
- H. 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.

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NO.	DATE	REVISION

WILLARD POND
VILLAGE OF ASHWAUBENON, BROWN COUNTY, WI
ABBREVIATIONS, SYMBOLS & NOTES

DESIGNED AWS	DRAWN BDJ
PROJECT NO. A0017-09-24-00342	
DATE OCT. 6, 2025	
SHEET NO. 01	

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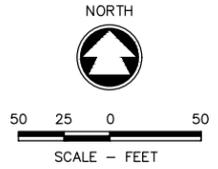
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HOLMGREN WAY

WILLARD DRIVE

S ASHLAND AVENUE



VERTICAL BENCHMARK CONTROL		
POINT #	ELEVATION	DESCRIPTION
1	590.01	NGS DISK 4K89 PID DL2645 (NOT SHOWN)
5	602.12	HYDRANT BURY BOLT
6	600.30	LIGHT POLE TOP CONCRETE BASE
7	599.22	LIGHT POLE TOP CONCRETE BASE
8	602.23	"P" OPEN TOP HYDRANT
9	602.92	HYDRANT CHISELED "X" FLANGE BOLT

HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
2	556018.90	88657.64	HUB TACK
3	555704.05	88580.47	MAG NAIL
4	556064.45	88378.08	MAG NAIL
10	555857.76	89140.54	MAG NAIL
11	556342.84	88035.73	MAG NAIL

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: 4K89
 POINT ID: DL2645 NAVD 88 DATUM
 BY GPS OBSERVATION TO ELEVATION = 590.01 (2012 ADJUSTMENT)
 PER FIELD BOOK 1524 PAGES 65-66

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

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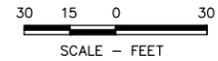
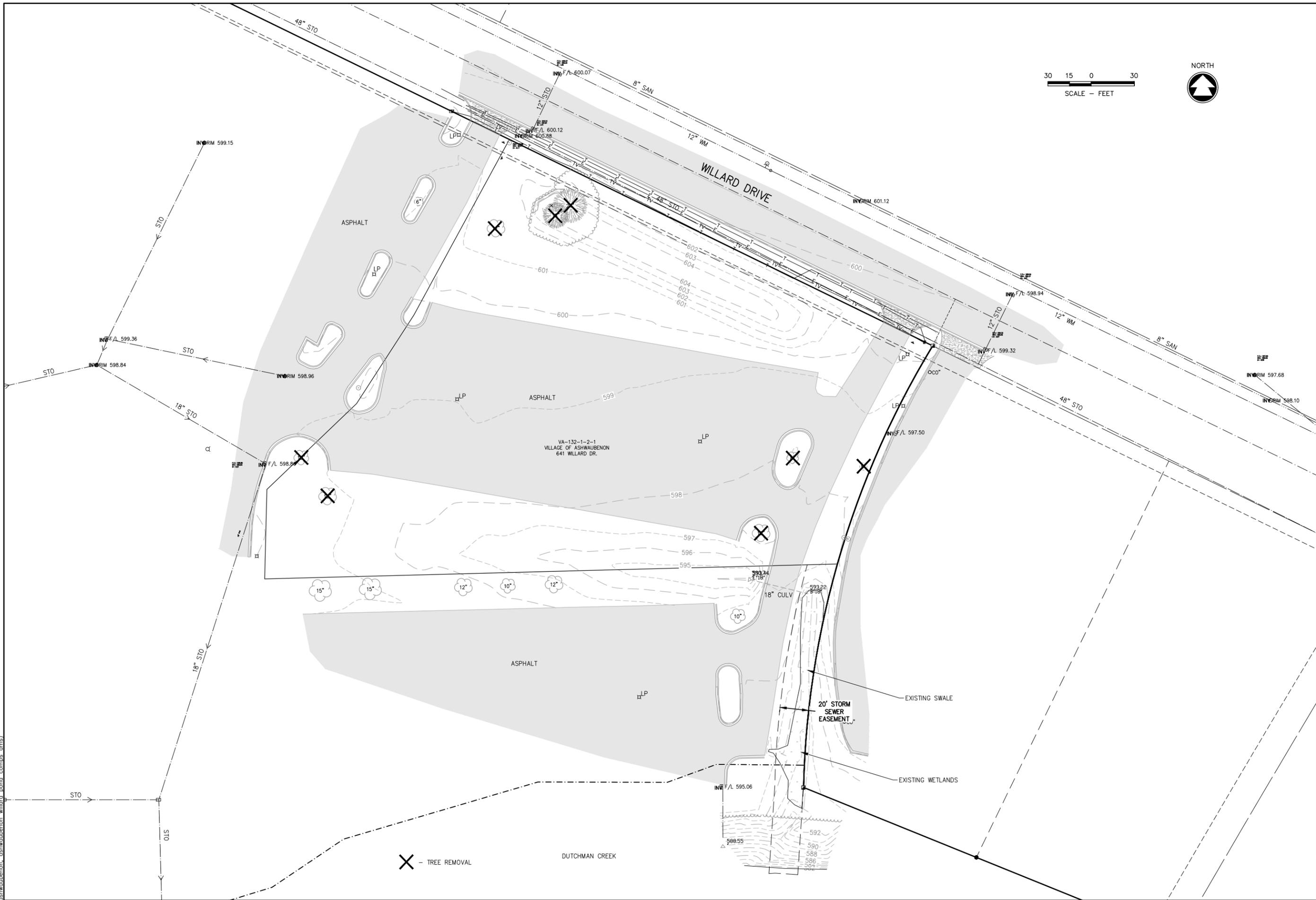
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NO.	DATE	REVISION

**WILLARD POND
 VILLAGE OF ASHWAUBENON, BROWN COUNTY, WI
 SURVEY CONTROL**

DESIGNED	DRAWN
PROJECT NO. A0017-09-24-00342	DATE OCT. 6, 2025
SHEET NO. 02	

aschmid, W:\PROJECTS\A0017\092400342\CADD\Civil3D\Plan Sheets\03 EXISTING SITE CONDITIONS.dwg, 03 existing site conditions, Plot Date: 10/6/2025 3:32 PM, xrefs: (x=exist topo willard pond ashwaubenon, x=all points willard pond ashwaubenon, x=exist shade willard pond ashwaubenon, ashwaubenon_willard_pond_comps_arms)



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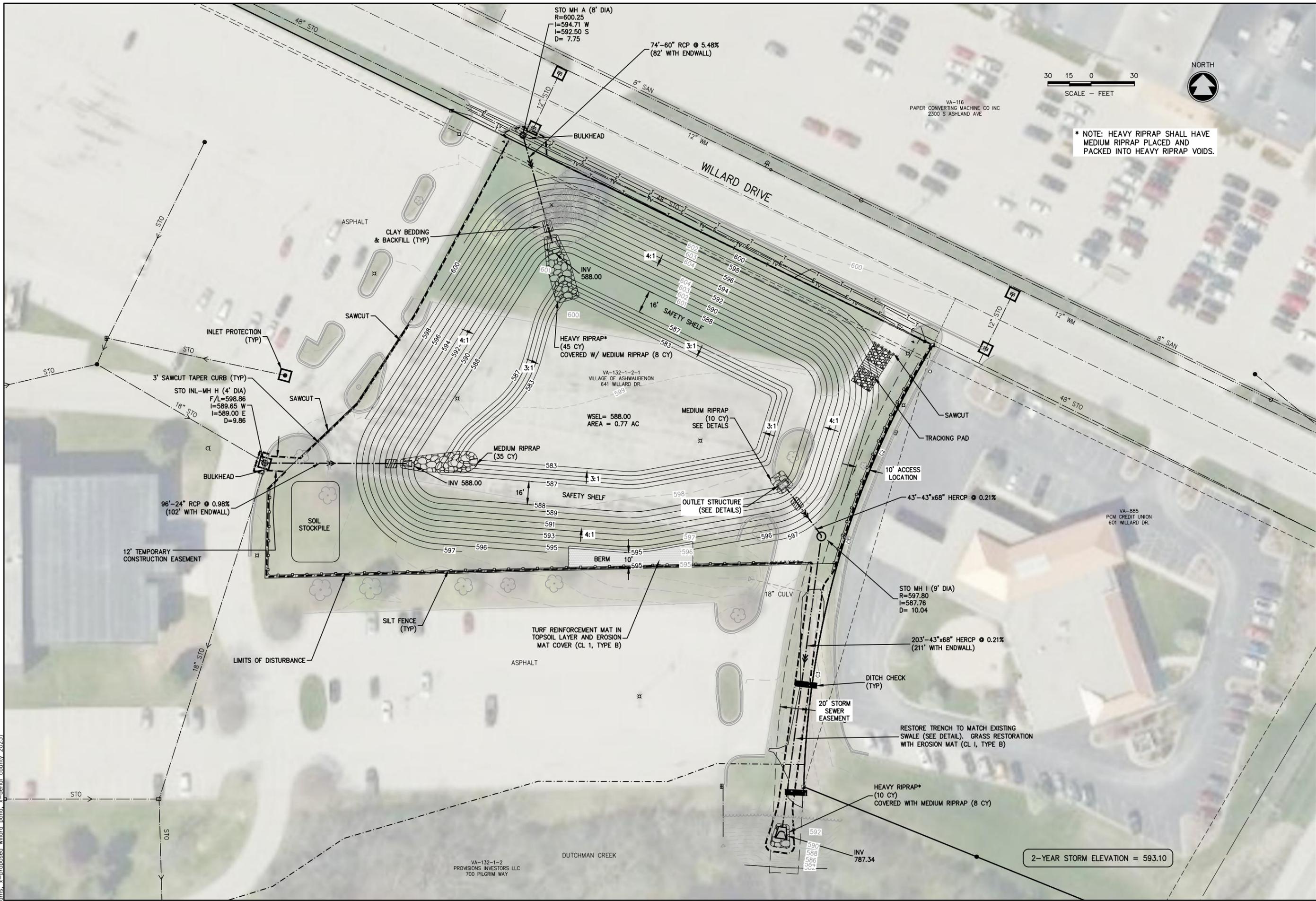
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NO.	DATE	REVISION

WILLARD POND
VILLAGE OF ASHWAUBENON, BROWN COUNTY, WI
EXISTING SITE PLAN

DESIGNED AWS	DRAWN BDJ
PROJECT NO. A0017-09-24-00342	
DATE OCT. 6, 2025	
SHEET NO. 03	

aschmidt, W:\PROJECTS\A0017\092400342\CADD\Civil3D\Plan Sheets\04 PROPOSED POND PLAN.dwg, 04 proposed pond plan, Plot Date: 10/6/2025 3:58 PM, xrefs: (x=exist topo willard pond ashwaubenon, x=exist shade willard pond ashwaubenon, x=exist shade willard pond ashwaubenon, x=proposed willard pond, x=geerial county 2023)



2-YEAR STORM ELEVATION = 593.10



* NOTE: HEAVY RIPRAP SHALL HAVE MEDIUM RIPRAP PLACED AND PACKED INTO HEAVY RIPRAP VOIDS.

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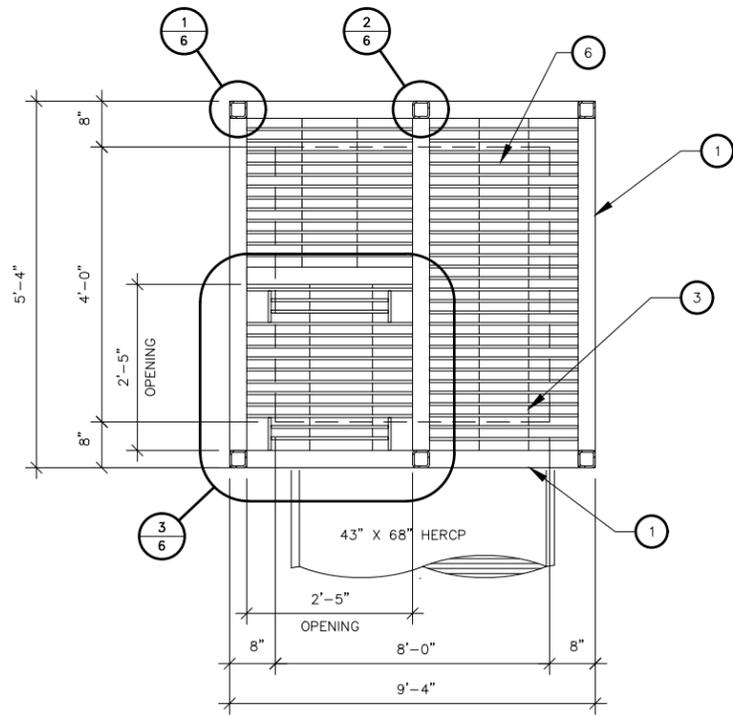
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NO.	DATE	REVISION

WILLARD POND
VILLAGE OF ASHWAUBENON, BROWN COUNTY, WI
PROPOSED POND PLAN

DESIGNED AWS	DRAWN BDJ
PROJECT NO. A0017-09-24-00342	
DATE OCT. 6, 2025	
SHEET NO. 04	

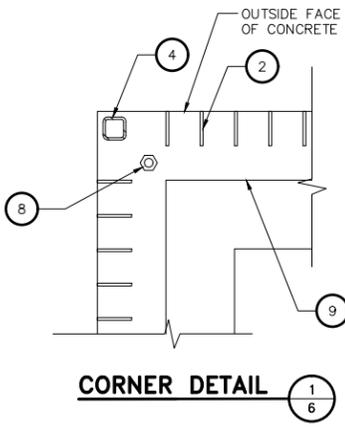
ALL STRUCTURAL STEEL SHALL BE GALVANIZED AND PAINTED FOLLOWING GALVANIZING (SEE DETAIL).



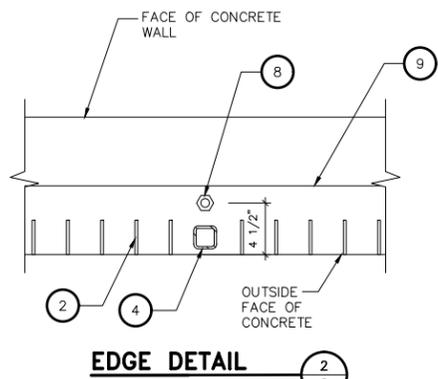
TOP TRASH RACK DETAIL PLAN VIEW

ELEMENT KEY

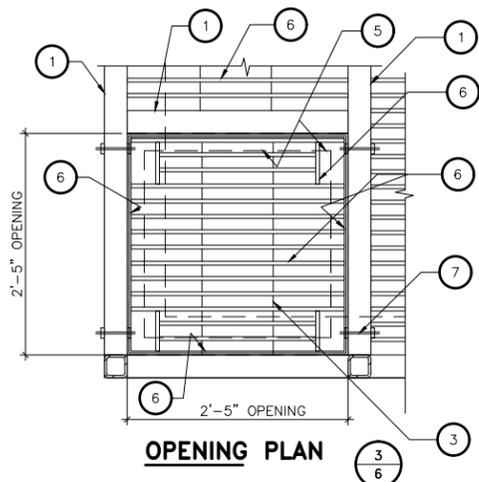
- 1 HSS 3x3x1/4
- 2 1/4"x3" PLATE @ 3" o.c. MAXIMUM
- 3 1/2" DIA BAR @ 10" o.c. MAXIMUM
- 4 HSS2x2x1/4
- 5 1/4"x2" HORIZONTAL PLATE WELDED TO SIDE OF HSS3x3x1/4
- 6 1/4"x2" PLATE @ 2" o.c. MAXIMUM
- 7 3/8" DIA. SST BOLT
- 8 3/8" DIA. SST ADHESIVE ANCHOR @ 24" o.c. MAXIMUM
- 9 3/8"x5 1/2"x CONT. PLATE



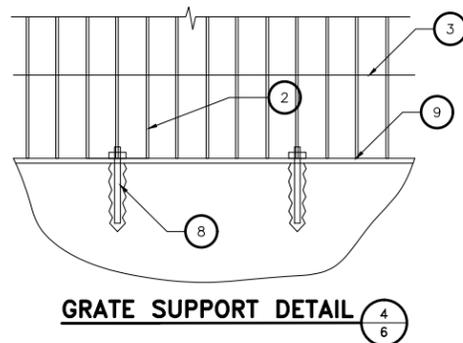
CORNER DETAIL



EDGE DETAIL



OPENING PLAN



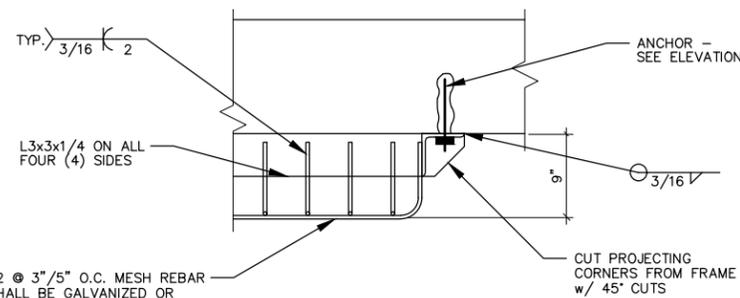
GRATE SUPPORT DETAIL

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:
 BARS & PLATES - ASTM A36 THREADED BOLTS - ASTM A301
 ANCHOR BOLTS - ASTM A36 THREADED BOLTS - ASTM A36
 WELDS - E70 XX
 ALL STEEL SHALL BE GALVANIZED
- ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES", CURRENT EDITION.
- ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. CODE FOR WELDING IN BUILDING CONSTRUCTION. SURFACES FOR FIELD WELDED MATERIAL SHALL BE PROPERLY PREPARED PRIOR TO BEING WELDED TO ASSURE A GOOD QUALITY WELD. REMOVE PAINT, GREASE, DIRT, ETC.
- ALL STEEL MEMBERS SHALL BE WELDED WITH A 3/16" CONTINUOUS FILLET WELD (UNLESS OTHERWISE NOTED)
- ALL WELDS SHALL BE TOUCHED UP WITH GALVANIZING COMPOUND.
- PAINT AFTER GALVANIZING ACCORDING TO:

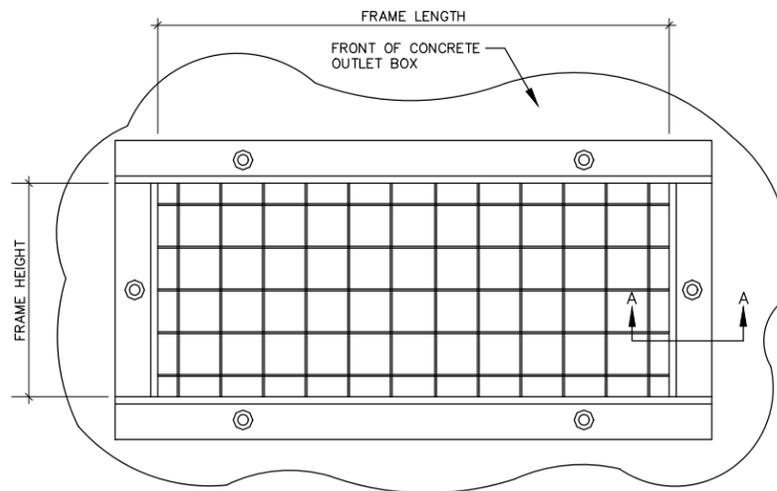
PAINT:

SURFACE	TNEMEC COATING SYSTEM	COVERAGE SQ. FT./GAL	THICKNESS /COAT DMT	COLOR
STEEL (OUTDOORS)	SHOP PRIMER 69-1255 BEIGE	277	4.0	BEIGE
	1 COAT 69 H.B. EPOXY	221	5.0	BLACK
	1 COAT 74 ENDURA-SHIELD IV	310	3.0	BLACK



SECTION A-A

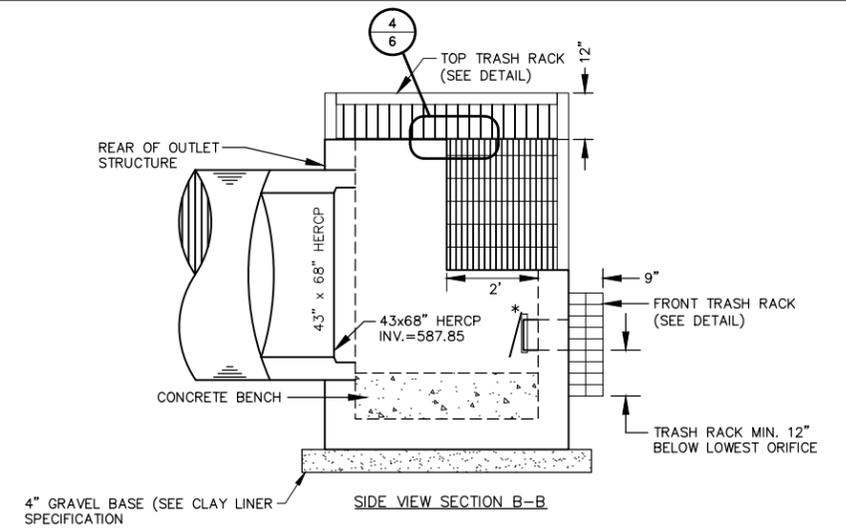
ALL STRUCTURAL STEEL SHALL BE GALVANIZED AND PAINTED FOLLOWING GALVANIZING (SEE DETAIL).



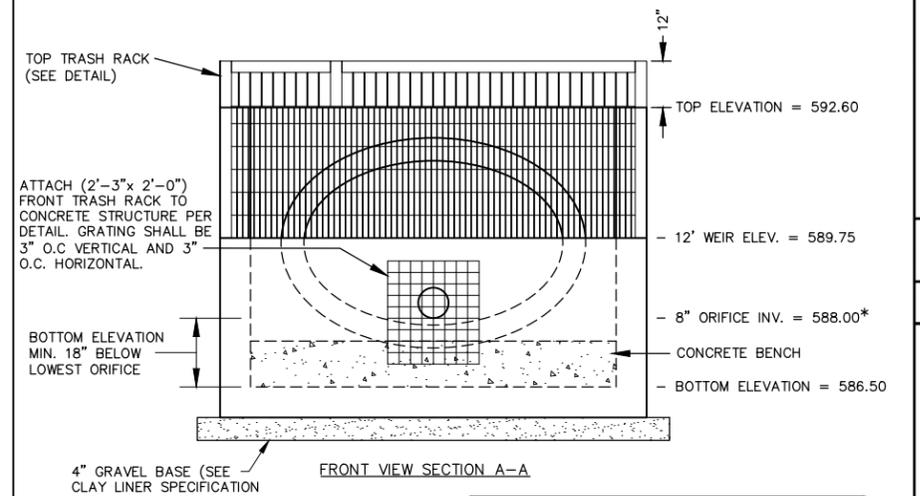
NOTES:

- WHEN FRAME HEIGHT IS 24 INCHES OR LESS, PROVIDE (1) ANCHOR PER VERTICAL LEG, OTHERWISE PROVIDE TWO OR MORE ANCHORS @ 24" O.C. MAX.
- WHEN FRAME LENGTH IS 12" OR LESS, PROVIDE (1) ANCHOR PER HORIZONTAL LEG, OTHERWISE PROVIDE TWO OR MORE ANCHORS @ 24" O.C. MAX.
- PROVIDE 3/8" EPOXY ANCHOR EMBEDDED 4" MIN. INTO CONCRETE WHERE REQUIRED BY THIS DRAWING OR NOTES.
- SEE OUTLET STRUCTURE DETAIL FOR TRASH RACK FRAME SIZE.

FRONT TRASH RACK DETAIL-ELEVATION VIEW

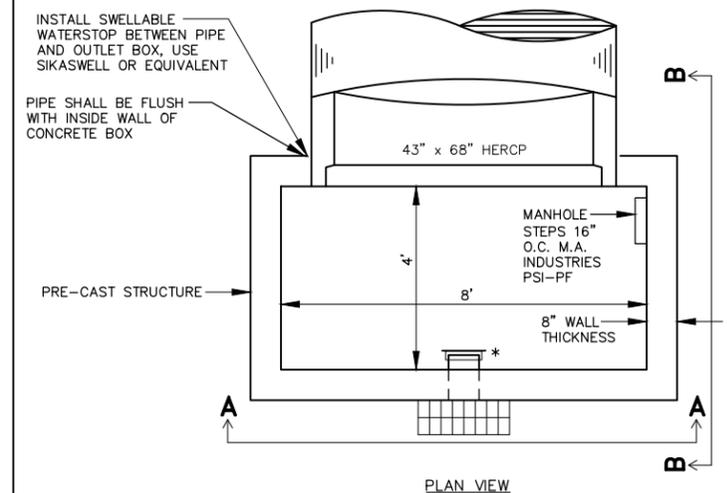


SIDE VIEW SECTION B-B



FRONT VIEW SECTION A-A

* 8" ORIFICE SHALL BE CREATED USING AN 8" DIA PVC SDR 35 PIPE EXTENDING INTO THE INSIDE OF THE STRUCTURE, THEN A HEAVY DUTY AGRI-DRAIN FLAP GATE IS TO BE INSTALLED.



PLAN VIEW

POND OUTLET STRUCTURE

* 8" ORIFICE SHALL BE CREATED USING AN 8" DIA PVC SDR 35 PIPE EXTENDING INTO THE INSIDE OF THE STRUCTURE, THEN A HEAVY DUTY AGRI-DRAIN FLAP GATE IS TO BE INSTALLED.

sbschmidt, W:\PROJECTS\A0017_092400342\CADD\Civil3D\Plan Sheets\00 TITLE NOTES DETAILS.dwg, pond details, Plot Date: 10/16/2025 3:44 PM, xref: none

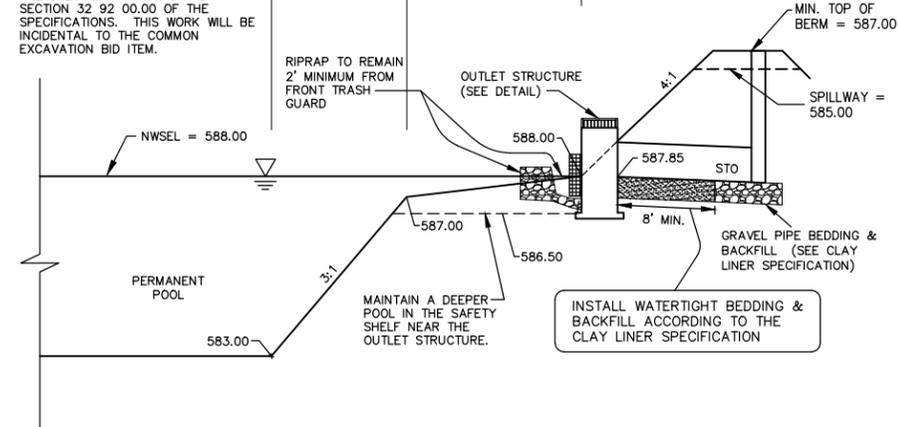
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DATE OCT. 6, 2025	
SHEET NO.	

WITHIN POND (BASE BID)
 - 0" TOPSOIL BELOW 587.00
 - 12" TOPSOIL 587.00 TO 588.00
 - 6" TOPSOIL ABOVE 588.00

*TOPSOIL SHALL BE TILLED / DECONSOLIDATED AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 32.92.00.00 OF THE SPECIFICATIONS. THIS WORK WILL BE INCIDENTAL TO THE COMMON EXCAVATION BID ITEM.



POND CROSS-SECTION

NOTE: ALL ELEVATIONS ARE TO FINISHED GRADE

* SEE CLAY LINER SPECIFICATION.

CLAY LINER SPECIFICATIONS (TYP.)

LINER THICKNESS = 2.5 FEET
 IN PLACE HYDRAULIC CONDUCTIVITY = 1×10^{-7} CM/SEC OR LESS
 MINIMUM OF 50% BY WEIGHT WHICH PASSES THE 200 SIEVE
 AVERAGE LIQUID LIMIT OF 25 OR GREATER, NONE LESS THAN 20
 AVERAGE PLASTICITY INDEX OF 12 OR GREATER, NONE LESS THAN 10

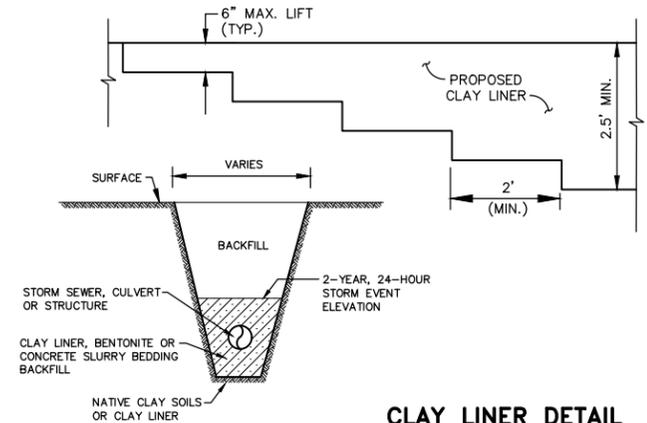
ALL CLAY LAYERS IN THE LINER TO BE CONSTRUCTED IN LIFT HEIGHTS NO GREATER THAN 6 INCHES AFTER COMPACTION USING FOOTED COMPACTION EQUIPMENT HAVING FEET AT LEAST AS LONG AS THE LOOSE LIFT HEIGHT. CLAY IS TO BE DISKED OR OTHERWISE MECHANICALLY PROCESSED BEFORE COMPACTION TO BREAK UP CLODS AND ALLOW FOR MOISTURE ADJUSTMENT. CLOD SIZE TO BE NO GREATER THAN 4 INCHES.

A SUFFICIENT NUMBER OF PASSES OF THE COMPACTION EQUIPMENT IS TO BE MADE OVER EACH LIFT OF CLAY TO ENSURE COMPLETE REMOLDING OF THE CLAY.

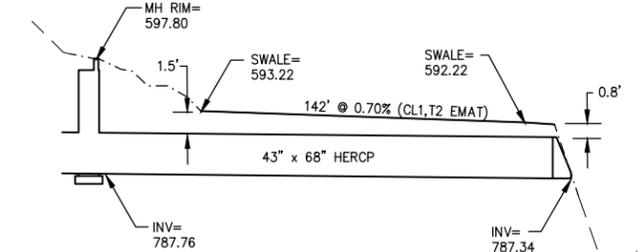
ALL CLAY TO BE COMPACTED TO 90% MODIFIED OR 95% STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT OF AT LEAST 2% WET OF OPTIMUM IF USING THE MODIFIED PROCTOR METHOD AND WET OF OPTIMUM IF USING THE STANDARD PROCTOR METHOD, BASED ON THE CHARACTERISTICS OF THE APPROPRIATE PROCTOR CURVE FOR THE CLAY BEING PLACED. THE CLAY LINER IS TO BE KEYPED TOGETHER TO FORM A CONTINUOUS CLAY SEAL, SEE DETAIL.

CLAY LINER SHALL BE PLACED OVER NATIVE SOILS THAT DO NOT SATISFY THE CLAY LINER SPECIFICATIONS. A GEOTECHNICAL ENGINEER SHALL DETERMINE WHICH SOILS DO NOT SATISFY THE CLAY LINER SPECIFICATIONS. THE GEOTECHNICAL ENGINEER SHALL INSPECT SOILS WITHIN THE PERMANENT POOL AND UP TO THE POND'S 2-YEAR, 24-HOUR WATER SURFACE ELEVATION. UPON COMPLETION OF THE LINER, A GEOTECHNICAL ENGINEER REGISTERED IN WISCONSIN SHALL PROVIDE A LETTER OF OPINION INDICATING IF THE CLAY LINER SATISFIES THESE SPECIFICATIONS.

WHERE STORM SEWER, CULVERT OF OTHER STRUCTURE PASSES THROUGH NATIVE CLAY OR CLAY LINER, THE CONTRACTOR SHALL INSTALL CLAY LINER, BENTONITE OR CONCRETE SLURRY (2.0 BAG/C.Y. MIX) BEDDING IN LIEU OF GRAVEL BEDDING & BACKFILL. THE LINER & BENTONITE OR SLURRY SHALL MINIMIZE SEEPAGE ALONG THE OUTSIDE WALL OF THE STORM SEWER, CULVERT OR STRUCTURE INCLUDING AT THE PIPE JOINT TIE HOLES AND PIPE JOINTS. IF BENTONITE IS USED, THE BENTONITE SHALL BE POSITIONED BETWEEN PIPE JOINTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE BEDDING SUPPORT FOR THE STORM SEWER, CULVERT OR STRUCTURE.

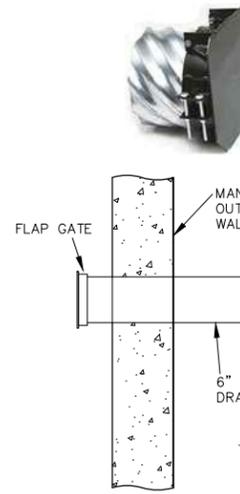
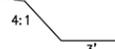


CLAY LINER DETAIL



OUTLET PIPE & SWALE DETAIL

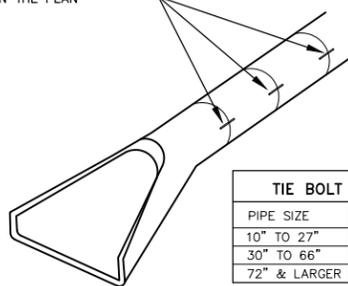
DITCH CROSS SECTION INFORMATION:
 - 3' WIDE BOTTOM
 - 4:1 SIDE SLOPES



FLAP GATE

AGRI-DRAIN HEAVY DUTY, OR EQUAL.

GALVANIZED PIPE JOINT TIES - 2 PER JOINT LOCATED ON EACH SIDE OF THE PIPE AT 60" FROM THE TOP C/L OF THE PIPE. TIE THREE JOINTS UNLESS OTHERWISE NOTED ON THE PLAN



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

CONCRETE APRON DETAIL

FRAME & GRATE NEENAH FOUNDRY NO. R-1550-B OR EQUAL WITH NON-ROCKING LID.

- FOR INLET-MHS; USE NEENAH FOUNDRY R-3015 OR EQUAL

3" MIN., 12" MAX. ADJUSTING RINGS MIN. 1 FOAM RING, NO CONCRETE LESS THAN 3 INCHES.

WHENEVER FEASIBLE, PROVIDE AN ECCENTRIC TOP SECTION FOR EACH MANHOLE, REGARDLESS OF THE MANHOLE SHAPE DEPICTED ON THE PLAN AND PROFILE SHEETS.

M.H. STEPS 16" O/C M.A. INDUSTRIES PSI-PF

PIPE SIZE-SEE PLANS

3"

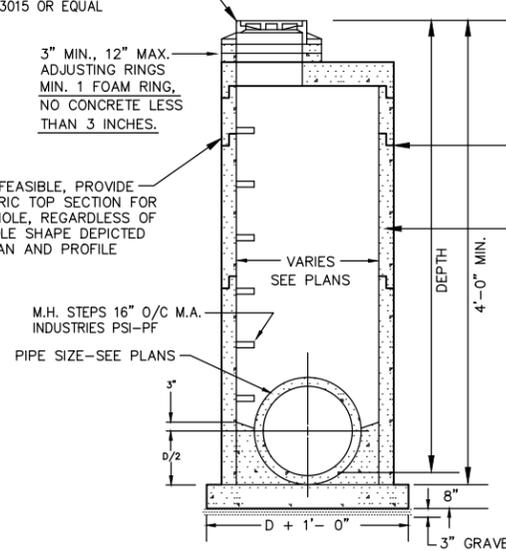
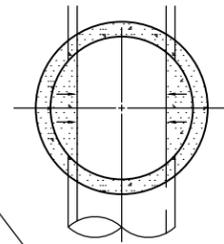
D/2

8"

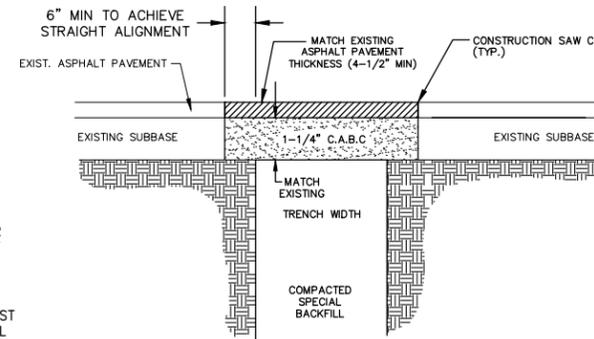
L 3"

GRAVEL

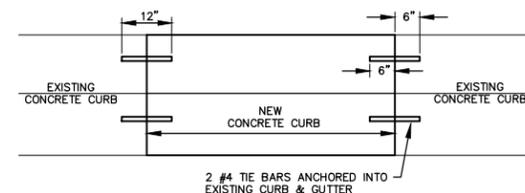
D + 1'-0"



STORM MH DETAIL



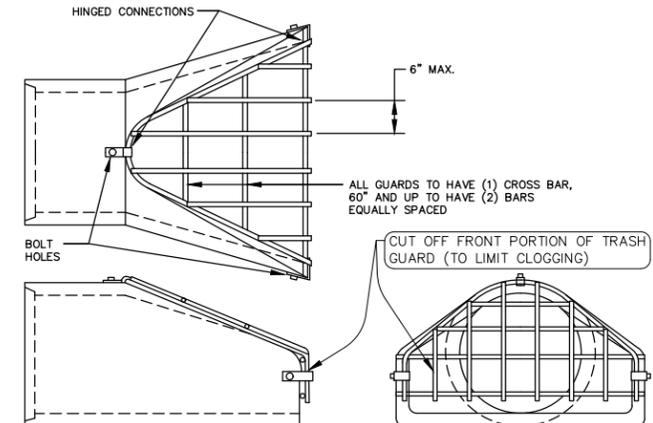
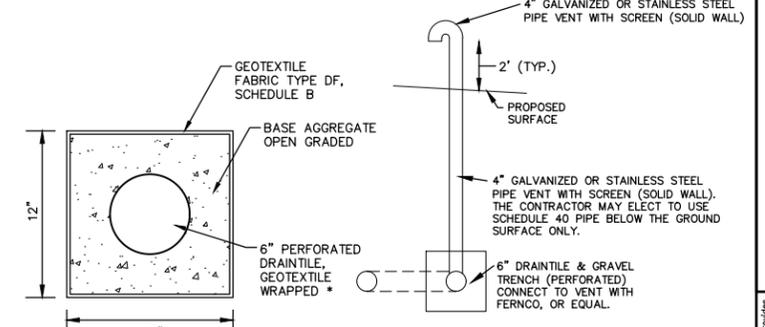
ASPHALTIC PAVEMENT RESTORATION



TYPICAL CURB RESTORATION

GRAVEL TRENCH WITH DRAINTILE and TRENCH VENT

* PERFORATED PIPE SHALL BE PVC HIGHWAY UNDERDRAIN (ASTM F-758) WITH 4 ROWS OF 1/4-INCH DIAMETER PERFORATIONS AND WRAPPED IN GEOTEXTILE.

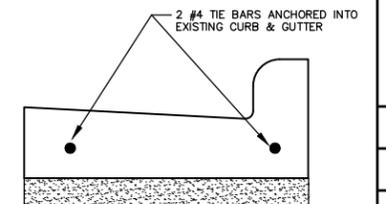


HOT DIP GALVANIZED PER ASTM-A153

	STANDARD DESIGN				HEAVY DESIGN			
	PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE	PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE
ROUND	12"-24"	3/4"	5/8"	5/8"	12"-18"	3/4"	5/8"	3/4"
ROUND	27"-48"	7/8"	3/4"	3/4"	21"-48"	7/8"	3/4"	1"
ROUND	54"-90"	1 1/8"	1"	1"	54"-90"	1 1/8"	1"	1 1/4"
ARCH	22"-29"	3/4"	5/8"	5/8"	22"	3/4"	5/8"	3/4"
ARCH	36"-59"	7/8"	3/4"	3/4"	29"-59"	7/8"	3/4"	1"
ARCH	65"-88"	1 1/8"	1"	1"	65"-88"	1 1/8"	1"	1 1/4"

TRASH GUARD FOR FLARED ENDS

* CUT OFF FRONT PORTION OF TRASH GUARD (TO LIMIT CLOGGING)



schmidt, w. PROJECTS\A0017_092400342\CADD\Civil3D\Plan_Sheets\00 TITLE NOTES DETAILS.dwg, miscellaneous details, Plot Date: 10/6/2025 3:58 PM, xref: none

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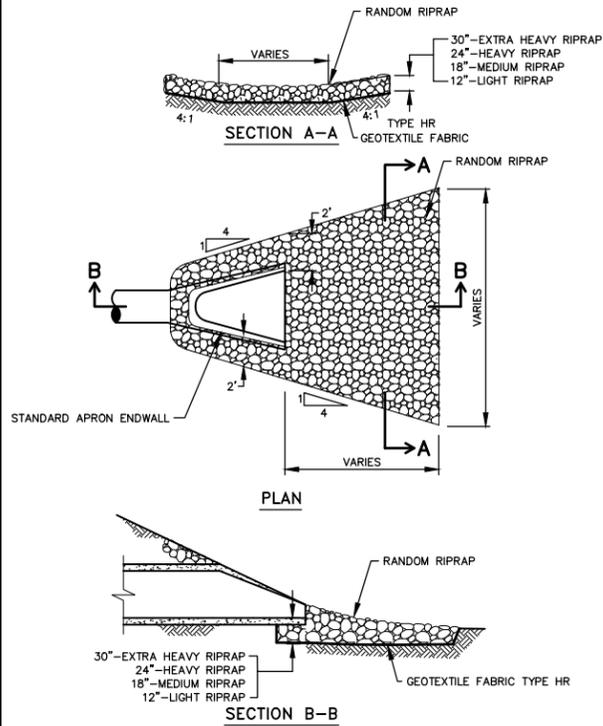
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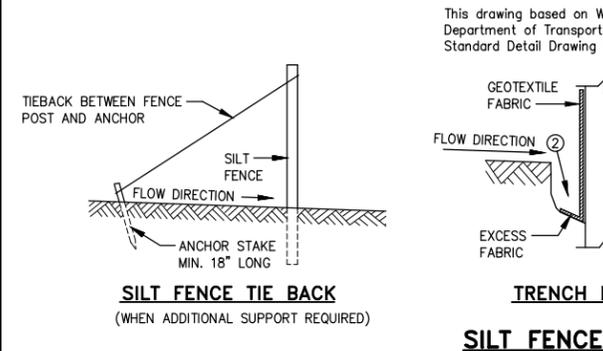
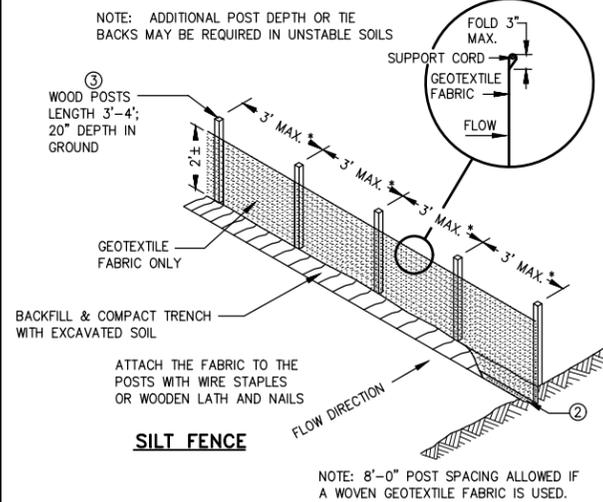
WILLARD POND
VILLAGE OF ASHWAUBENON, BROWN COUNTY, WI
MISCELLANEOUS DETAILS

DESIGNED AWS	DRAWN BDJ
PROJECT NO. A0017-09-24-00342	
DATE OCT. 6, 2025	
SHEET NO. 06	

- 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.

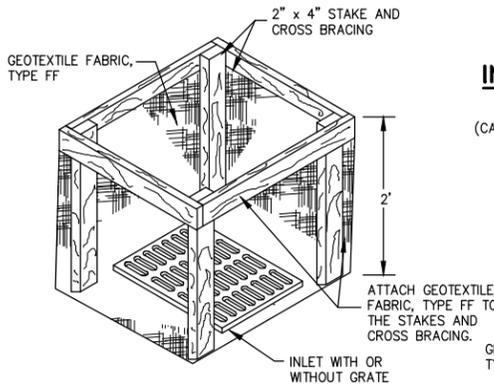
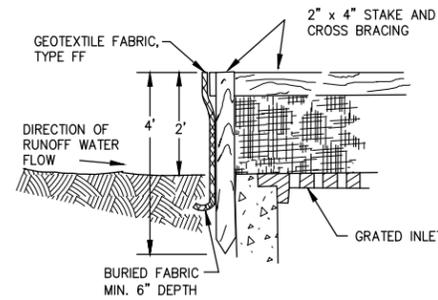


RIPRAP AT STORM SEWER OUTFALL



CONSTRUCTION SEQUENCE

- THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SEQUENCE AND SCHEDULE OF MAJOR LAND DISTURBING ACTIVITIES:
- PROJECT CONSTRUCTION IS ANTICIPATED TO BEGIN IN FALL/WINTER 2025
 - POST PERMITS AT SITE. NOTIFY WISCONSIN DNR, VILLAGE OF ASHWAUBENON, AND ENGINEER AT LEAST 5 DAYS PRIOR TO START OF CONSTRUCTION.
 - INSTALL TRACKING PAD, SILT FENCE, AND INLET PROTECTION. IF THE TRACKING PAD DOES NOT REMOVE SEDIMENT FROM VEHICLE TIRES, THEN TIRES SHALL BE WASHED. STREET SWEEPING SHALL BE PERFORMED ON A DAILY BASIS AND/OR AS REQUIRED BY TECHNICAL STANDARDS.
 - STRIP AND STOCKPILE TOPSOIL FOR POND EXCAVATION. MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME. EXCAVATE POND. DE-WATER EXCAVATED AREA AS NEEDED PER W DNR TECHNICAL STANDARD 1061. EXCAVATED MATERIAL IS TO BE LOADED ON TRUCKS AND HAULED TO AN OFFSITE LOCATION SELECTED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS AND INSTALLING BEST MANAGEMENT PRACTICES AT THE OFFSITE LOCATION.
 - STABILIZE DISTURBED AREAS ON THE SITE AND IN THE POND AS SOON AS POSSIBLE AFTER FINAL GRADING OF THE POND WITH TOPSOIL, SEED, FERTILIZER AND MULCH.
 - INSTALL STORM SEWER & RIPRAP, AND COMPLETE ANY REMAINING RESTORATION.
 - REMOVE INLET PROTECTION, TRACKING PAD, AND SILT FENCE AFTER 70% VEGETATION IS ESTABLISHED.



INLET PROTECTION, TYPE A

GENERAL NOTES

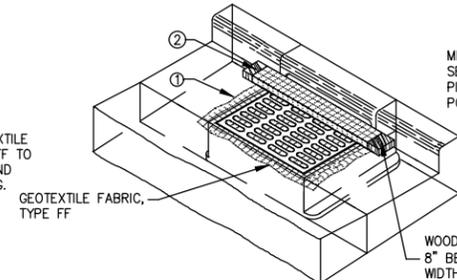
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

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.

- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10\"/>
- FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18\"/>
- 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

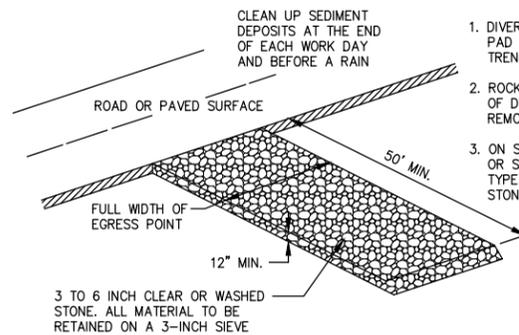
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3\"/>

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\"/>

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

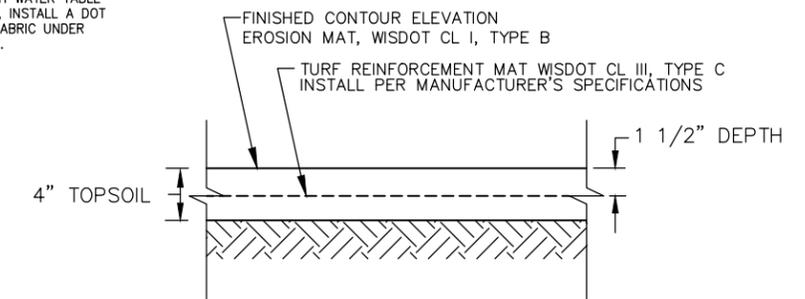
STORM DRAIN INLET PROTECTION



TRACK OUT CONTROL

* MANUFACTURED TRACKOUT CONTROL DEVICE MAY ALSO BE USED

- DIVERT FLOW AWAY FROM TRACKING PAD USING CULVERTS, SHALLOW TRENCH OR DIVERSION DAM.
- ROCKS LODGED BETWEEN THE TIRES OF DUAL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE SITE.
- ON SITES WITH A HIGH WATER TABLE OR SATURATED SOILS, INSTALL A DOT TYPE R GEOTEXTILE FABRIC UNDER STONE TRACKING PAD.



TURF REINFORCEMENT DETAIL

* TRM SHALL BE OVERLAPPED, STAKED AND ANCHORED IN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & DETAILS.

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NO.	DATE	REVISION

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