City of Kaukauna
Board of Public Works August 1, 2023
jn/engr dept

Agenda Item #2a
Authorization to seek bids for Project 13-23 Company Woods Pond

Background

The Engineering Department is requesting authorization to seek bids for the Company Woods Pond retrofit project. The pond modifications are part of the approved Total Maximum Daily Loading (TMDL) action plan and budgeted work plan submitted to DNR for the City. The project will take an existing pond that does not met current standards for removal of suspended solids or phosphorus and will increase the depth and surface area to allow for enhanced treatment of the stormwater before it enters the company woods stream and the Lower Fox River. A second phase of this project will create a wetland safety shelf and mesic prairies, as well as planting trees around the pond area. The additions will provide habitat and a low maintenance natural area within the 1000 Islands Conservancy Zone. An urban non-point source grant for the retrofit project was received from WI DNR and will reimburse up to 50% of the project cost. A plan set is attached to this memo.

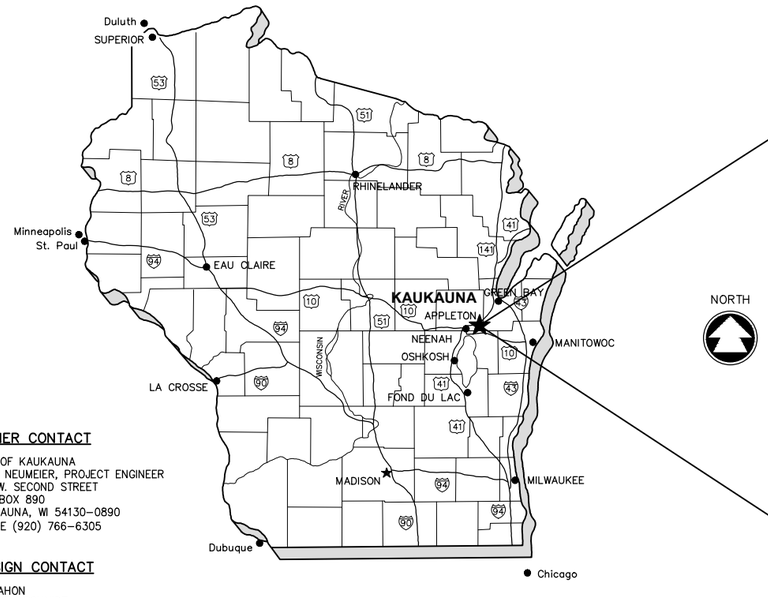
Recommended Action

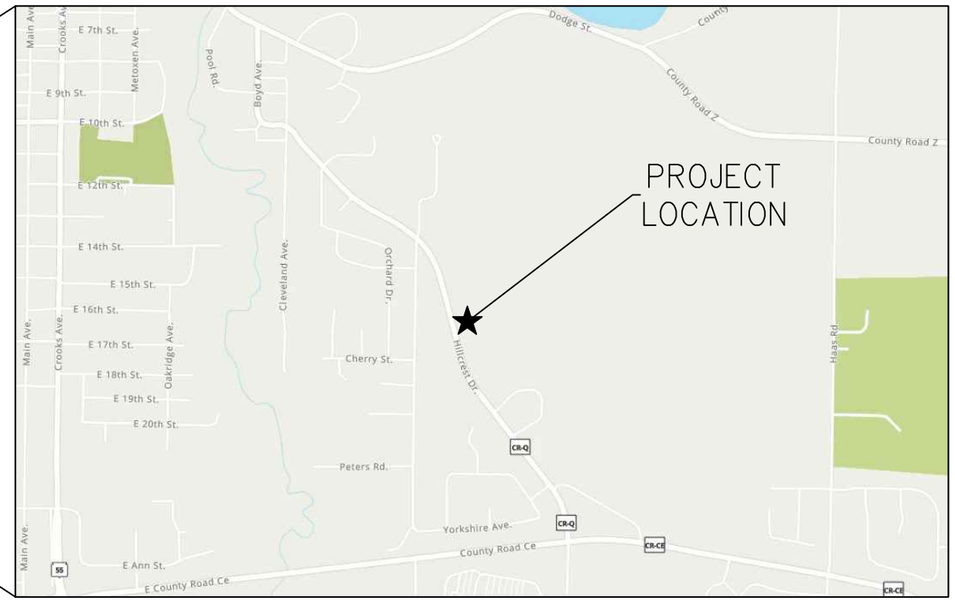
Motion to authorize the Engineering Department to seek bids for Project 13-23, Company Woods Pond.

COMPANY WOODS POND
CITY OF KAUKAUNA

OUTAGAMIE COUNTY, WISCONSIN

MCM # K0006-092200453





CONTACT INFORMATION

UTILITIES

WE ENERGIES
CODY BECKMAN (GAS)
KENNETH VAN OSS (ELECTRIC)
800 SOUTH LYNNDALE DRIVE P.O. BOX 1699
APPLETON, WI 54912
(920) 380-3422 (GAS)
(920) 380-3318 (ELECTRIC)
cody.beckman@we-energies.com
kenneth.van-oss@we-energies.com

AT&T
ERIC ADAIR
205 S. JEFFERSON ST.
GREEN BAY, WI 54301
(920) 433-4155
az9216@att.com

TIME WARNER CABLE
VINCE ALBIN
3520 DESTINATION DRIVE
APPLETON, WI. 54915
(920) 378-0444
vince.albin@twcable.com

KAUKAUNA UTILITIES, ELECTRIC
ERIC MILLER
777 ISLAND STREET
P.O. BOX 1777
KAUKAUNA, WI 54130-7077
(920) 462-0214
emiller@wpplsys.org

KAUKAUNA UTILITIES, WATER
KEVIN OBIALA
777 ISLAND STREET
P.O. BOX 1777
KAUKAUNA, WI 54130-7077
(920)462-0233
kobiala@ku-wi.org

OWNER CONTACT

CITY OF KAUKAUNA
JOHN NEUMEIER, PROJECT ENGINEER
201 W. SECOND STREET
P.O. BOX 890
KAUKAUNA, WI 54130-0890
PHONE (920) 766-6305

DESIGN CONTACT

McMAHON
ANDREW SCHMIDT
1445 McMAHON DRIVE
NEENAH, WI 54956
(920) 751-4200
aschmidt@mcmgrp.com

DNR

DEPARTMENT OF NATURAL RESOURCES
CRYSTAL VON HOLDT
2984 SHAWANO AVENUE
GREEN BAY, WI 54313-6727
(920) 662-5466
crystal.vonholdt@wi.gov

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

McMAHON
ENGINEERS | ARCHITECTS
McMAHON ASSOCIATES, INC.
1445 McMAHON DRIVE NEENAH, WI 54956
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SHEET INDEX

DATE
NOV., 2022
PROJECT NO.
K0006-092200453

Preliminary - Not for Construction

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)	PLE	PERMANENT LIMITED EASEMENT
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CO	CLEAN OUT	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PROP	PROPOSED
CORR	CORRUGATED	PSD	PASSING SIGHT DISTANCE
CP	CONTROL POINT	PSI	POUNDS PER SQUARE INCH
CR	CRUSHED	PT	POINT OF TANGENCY
CS	CURB STOP	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CSW	CONCRETE SIDEWALK	PVI	POINT OF VERTICAL INTERSECTION
CTH	COUNTY TRUNK HIGHWAY	PVT	POINT OF VERTICAL TANGENCY
CULV	CULVERT	R	RADIUS
D	DEPTH OR DELTA	RCP	REINFORCED CONCRETE PIPE
DI	DUCTILE IRON	RD	ROAD
DIA	DIAMETER	REBAR	REINFORCEMENT ROD
DIS	DISCHARGE	REM	REMOVE
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

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.
6. ALL CURB RADII SHOWN ON THE PLAN SHEETS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
7. DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

STANDARD SYMBOLS (PLAN VIEW ONLY)

- 2" IRON PIPE FOUND
- 1 1/4" REBAR FOUND
- 1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET
- 1" (1.315 OD) IRON PIPE FOUND
- 1" IRON PIPE SET
- 3/4" IRON REBAR FOUND
- 3/4" IRON PIPE FOUND
- 3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET
- MAG NAIL FOUND
- MAG NAIL SET
- MAG SPIKE FOUND
- MAG SPIKE SET
- CHISEL CROSS FOUND
- CHISEL CROSS SET
- COUNTY MONUMENT
- CONCRETE MONUMENT FOUND
- CONTROL POINT HORIZONTAL
- VERTICAL BENCHMARK
- SB or MW — SOIL BORING or MONITORING WELL
- POWER POLE
- POWER POLE W/GUY WIRE
- TELEPHONE OR TELEVISION PEDESTAL
- MB — MAILBOX
- SIGN
- RAILROAD CROSS BUCK
- RAILROAD GATE ARM
- RAILROAD TRACKS
- LIGHT POLE
- WOOD POLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL MAST ARM
- CONIFEROUS TREE
- DECIDUOUS TREE
- TREE OR BRUSH LINE
- BED ROCK (IN PROFILE VIEW)
- HANDICAPPED PARKING STALL
- EXISTING SPOT ELEVATION
- × 750.00 — PROPOSED SPOT ELEVATION
- DRAINAGE HIGH POINT
- DRAINAGE DIRECTION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING INLET
- PROPOSED INLET
- EXISTING YARD DRAIN
- PROPOSED YARD DRAIN
- CO — EXISTING CLEAN OUT
- CO — 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

- T — TELEPHONE CABLE - BURIED
- E — ELECTRIC CABLE - BURIED
- OHU — UTILITIES - OVERHEAD
- FO — FIBER OPTIC CABLE - BURIED
- G — GAS MAIN
- TV — CABLE TELEVISION - BURIED
- DITCH LINE
- STREET C/L OR R/L
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- 746 — EXISTING CONTOURS
- 746 — PROPOSED CONTOURS
- FM — EXISTING FORCEMAIN SEWER
- SAN — EXISTING SANITARY SEWER
- SAN — PROPOSED SANITARY SEWER
- WM — EXISTING WATER MAIN
- WM — PROPOSED WATER MAIN
- STO — EXISTING STORM SEWER
- STO — PROPOSED STORM SEWER
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED REJECT CURB & GUTTER
- EXISTING CULVERT WITH END SECTIONS
- PROPOSED CULVERT WITH END SECTIONS
- BUILDING OUTLINE
- FENCE LINE
- SAW CUT REQ'D
- SILT FENCE
- GUARD RAIL
- DITCH CHECK
- INLET PROTECTION
- TRACKING PAD
- TURBIDITY BARRIER OR SHEET PILING
- SANDBAG COFFERDAM
- SLOPE INTERCEPT
- LIMITS OF DISTURBANCE

EXISTING / PROPOSED

- ASPHALT PAVEMENT
- CONCRETE SIDEWALK/DRIVEWAY
- GRAVEL
- RIP-RAP (SIZE AS SPECIFIED)
- PROPOSED TURF REINFORCEMENT MAT (TRM)
- EXISTING DELINEATED WETLANDS

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. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

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

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

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 EROSIVE OUTLET FLOWS.
H. TRANSPORT OF CHEMICALS, CEMENT AND BUILDING MATERIALS BY RUNOFF.
I. TRANSPORT OF UNTREATED VEHICLE AND WHEEL WASH WATER BY RUNOFF.

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.

McMAHON ENGINEERS | 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

NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
ABBREVIATIONS SYMBOLS & NOTES

DESIGNED	DRAWN
AWS	AWS

PROJECT NO. K0006-092200453
DATE NOV., 2022
SHEET NO. 01

aschmidt W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\00 Title-Notes-Details.dwg, 01 abbreviations symbols & notes, Plot Date: 7/20/2023 11:18 AM, xrefs:none

Preliminary - Not for Construction

NORTH

30 15 0 30
SCALE – FEET

HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
4	563809.82	866481.14	MAG NAIL
5	563601.09	866538.94	MAG NAIL

VERTICAL BENCHMARK CONTROL		
POINT #	ELEVATION	DESCRIPTION
6	711.03	HYDRANT ARROW
7	713.60	HYDRANT ARROW

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: BUCHANAN C GPS
POINT ID: DF5990 NAVD 88 DATUM
BY GPS OBSERVATION TO ELEVATION = 728.28 (2007 ADJUSTMENT)
PER FIELD BOOK 1520 PAGE 55

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

McMAHON
ENGINEERS 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

NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
SURVEY CONTROL

DESIGNED	DRAWN
AWS	AWS

PROJECT NO.
K0006-092200453

DATE
NOV., 2022

SHEET NO.
02

Preliminary - Not for Construction

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
EXISTING SITE PLAN

NO.	DATE	REVISION

DESIGNED AWS
DRAWN AWS
PROJECT NO. K0006-092200453
DATE NOV., 2022
SHEET NO. 03

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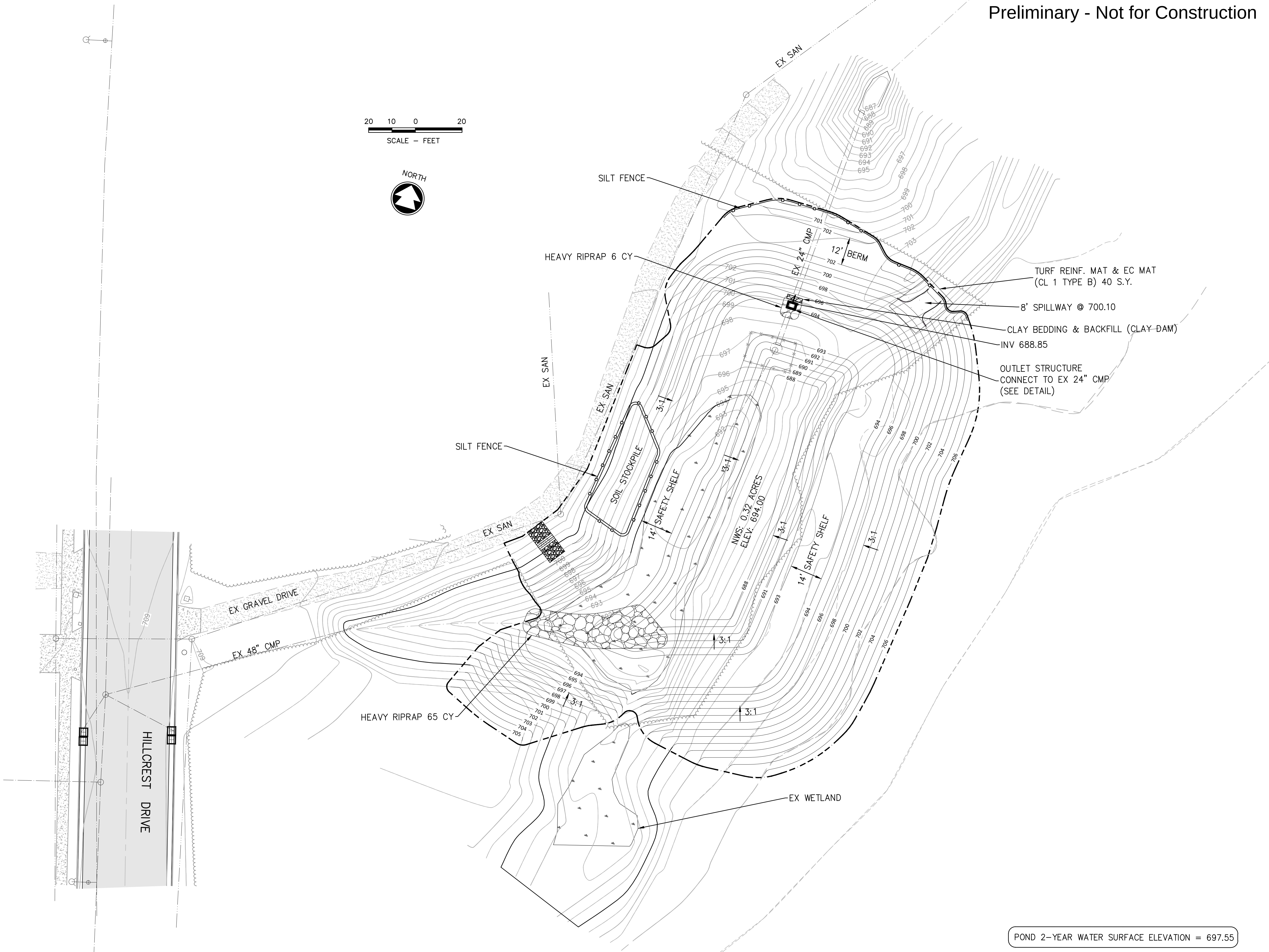
McMAHON ASSOCIATES, INC.
1445 McMAHON DRIVE NEENAH, WI 54956
Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025
PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

Preliminary - Not for Construction



McMAHON
ENGINEERS 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

NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
PROPOSED POND PLAN

DESIGNED	DRAWN
AWS	AWS

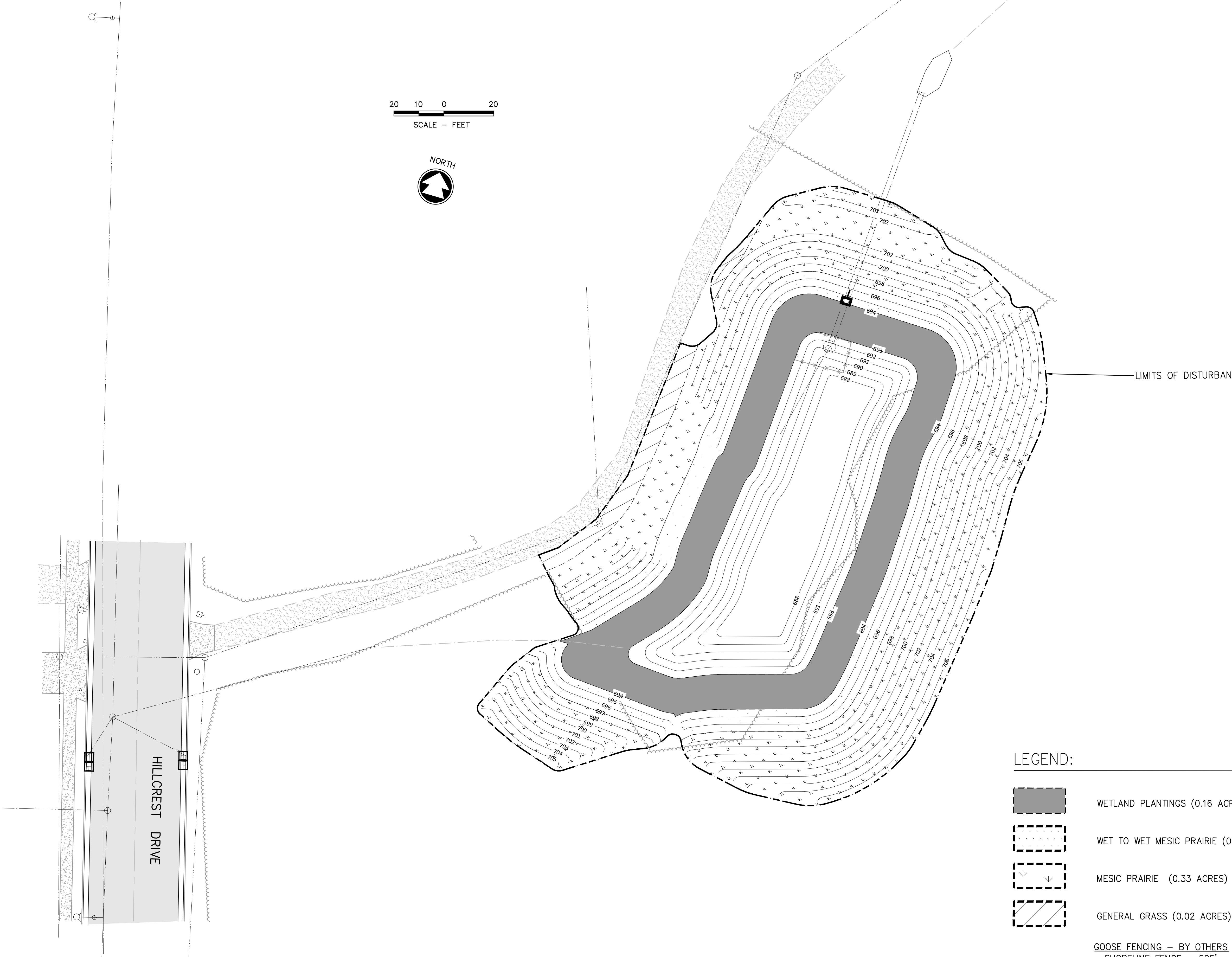
PROJECT NO. K0006-092200453

DATE NOV., 2022

SHEET NO. 04

aschmidt, W:\PROJECTS\K0006\092200453\CADD\Civil3D\Plan Sheets\04 PROPOSED POND PLAN.dwg, 04 proposed pond plan, Plot Date: 7/20/2023 11:18 AM, xrefs: (x-exist topo company woods pond, x-all points company woods pond, x-exist shade company woods pond, x-proposed company woods)

Preliminary - Not for Construction



LEGEND:

	WETLAND PLANTINGS (0.16 ACRES) – BY OTHERS
	WET TO WET MESIC PRAIRIE (0.10 ACRES) – BY OTHERS
	MESIC PRAIRIE (0.33 ACRES) – BY OTHERS
	GENERAL GRASS (0.02 ACRES)

GOOSE FENCING – BY OTHERS
SHORELINE FENCE – 525'
INSIDE FENCE – 405'

McMAHON
ENGINEERS | 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

NO.	DATE	REVISION

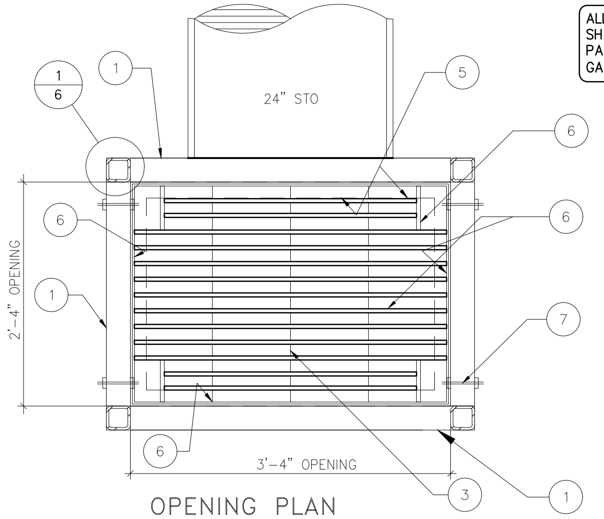
COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
LANDSCAPE PLAN

DESIGNED	DRAWN
AWS	AWS

PROJECT NO.
K0006-092200453

DATE
NOV., 2022

SHEET NO.
05

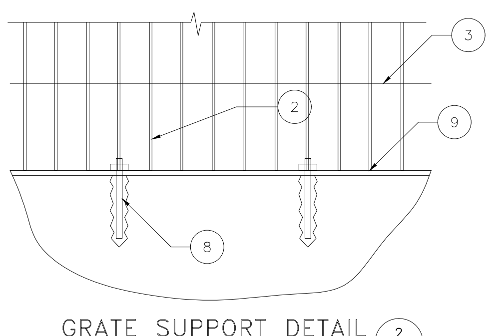


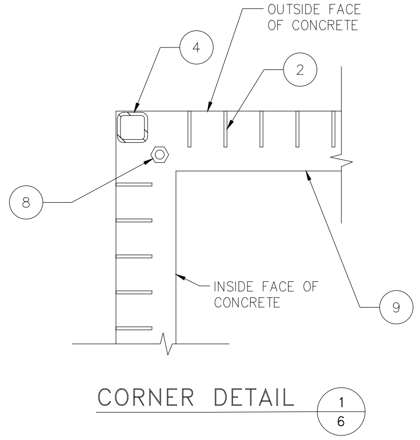
ALL STRUCTURAL STEEL SHALL BE GALVANIZED AND PAINTED FOLLOWING GALVANIZING (SEE DETAIL).

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"x CONT. PLATE

TOP TRASH RACK DETAIL PLAN VIEW



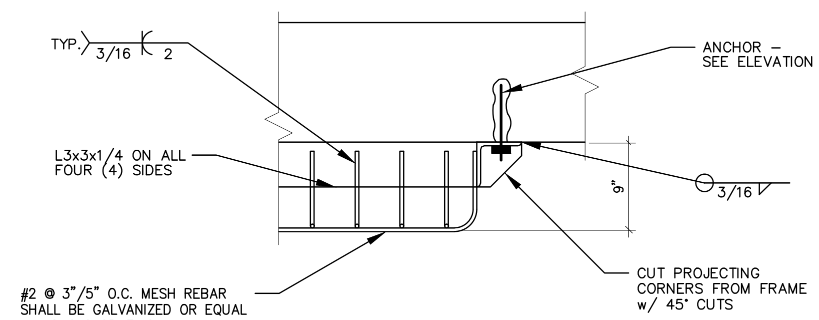


STRUCTURAL STEEL

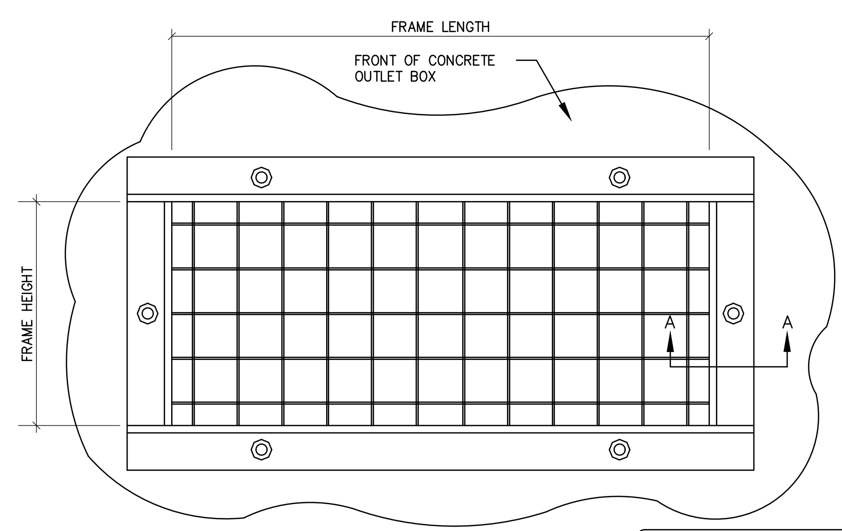
1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING SPECIFICATIONS:
   BARS & PLATES – ASTM A36 THREADED BOLTS – ASTM A301
   ANCHOR BOLTS – ASTM A36 THREADED BOLTS – ASTM A36
   WELDS – E70 XX
   ALL STEEL SHALL BE GALVANIZED, AND PAINTED ONCE FABRICATED.
2. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES", CURRENT EDITION.
3. 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.
4. ALL STEEL MEMBERS SHALL BE WELDED WITH A 3/16" CONTINUOUS FILLET WELD (UNLESS OTHERWISE NOTED)
5. ALL WELDS SHALL BE TOUCHED UP WITH GALVANIZING COMPOUND, THEN PAINTED 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-SHELD IV	310	3.0	BLACK



SECTION A–A



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

NOTES:

1. WHEN FRAME HEIGHT IS 24 INCHES OR LESS, PROVIDE (1) ANCHOR PER VERTICAL LEG, OTHERWISE PROVIDE TWO OR MORE ANCHOR @ 24" O.C. MAX.
2. WHEN FRAME LENGTH IS 12" OR LESS, PROVIDE (1) ANCHOR PER HORIZONTAL LEG, OTHERWISE PROVIDE TWO OR MORE ANCHORS @ 24" O.C. MAX.
3. PROVIDE ½" EPOXY ANCHOR EMBEDDED 4" MIN. INTO CONCRETE WHERE REQUIRED BY THIS DRAWING OR NOTES.
4. SEE OUTLET STRUCTURE DETAIL FOR TRASH RACK FRAME SIZE.

FRONT TRASH RACK DETAIL–ELEVATION VIEW

CLAY LINER SPECIFICATIONS (TYP.)

LINER THICKNESS = 4 FEET
IN PLACE HYDRAULIC CONDUCTIVITY = 1 X 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

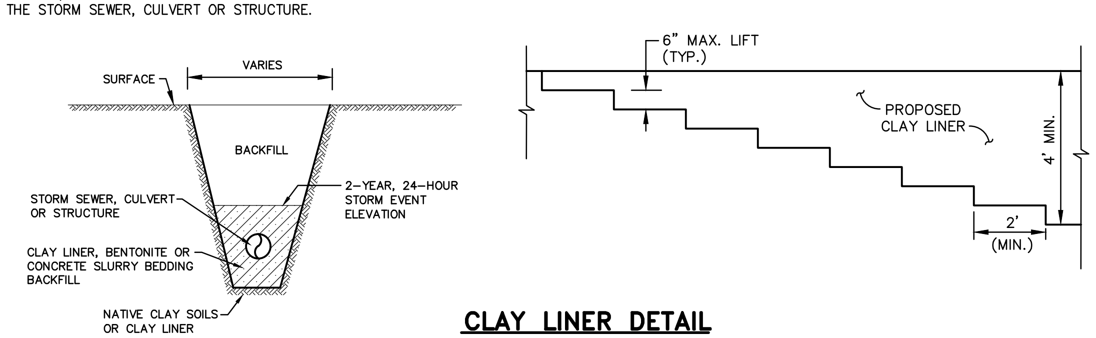
ALL CLAY LAYERS IN THE LINER TO BE CONSTRUCTED IN LIFT HEIGHTS NO GREATER THAN 6 INCHES AFTER COMPACTION USING FOOTED COMPACTION EQUIPMENT HAVING FEET AT LEAST AS LONG AS THE LOOSE LIFT HEIGHT. CLAY IS TO BE DISKED OR OTHERWISE MECHANICALLY PROCESSED BEFORE COMPACTION TO BREAK UP CLODS AND ALLOW FOR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

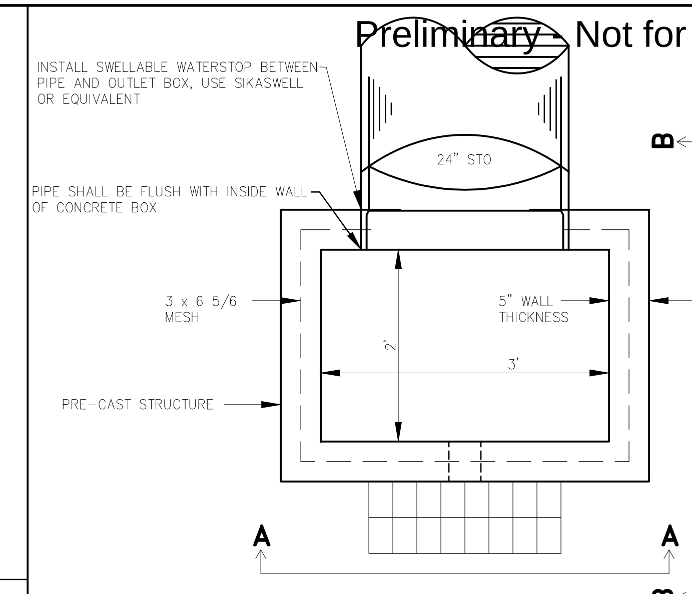
ALL CLAY TO BE COMPACTED TO 90% MODIFIED OR 95% STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT OF AT LEAST 2% WET OF OPTIMUM IF USING THE MODIFIED PROCTOR METHOD AND WET OF OPTIMUM IF USING THE STANDARD PROCTOR METHOD, BASED ON THE CHARACTERISTICS OF THE APPROPRIATE PROCTOR CURVE FOR THE CLAY BEING PLACED.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

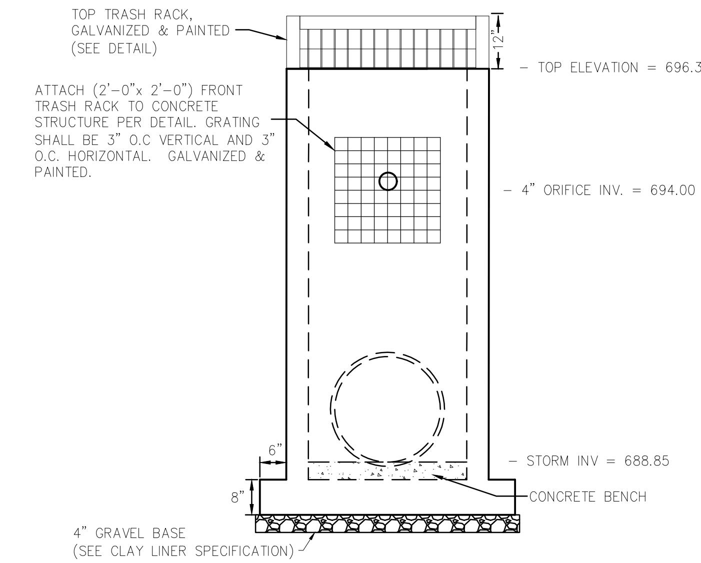
CLAY LINER SHALL BE PLACED OVER NATIVE SOILS THAT DO NOT SATISFY THE CLAY LINER SPECIFICATIONS. A GEOTECHNICAL ENGINEER SHALL DETERMINE WHICH SOILS DO NOT SATISFY THE CLAY LINER SPECIFICATIONS. THE GEOTECHNICAL ENGINEER SHALL INSPECT SOILS WITHIN THE PERMANENT POOL AND UP TO THE POND'S 2-YEAR, 24-HOUR 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.

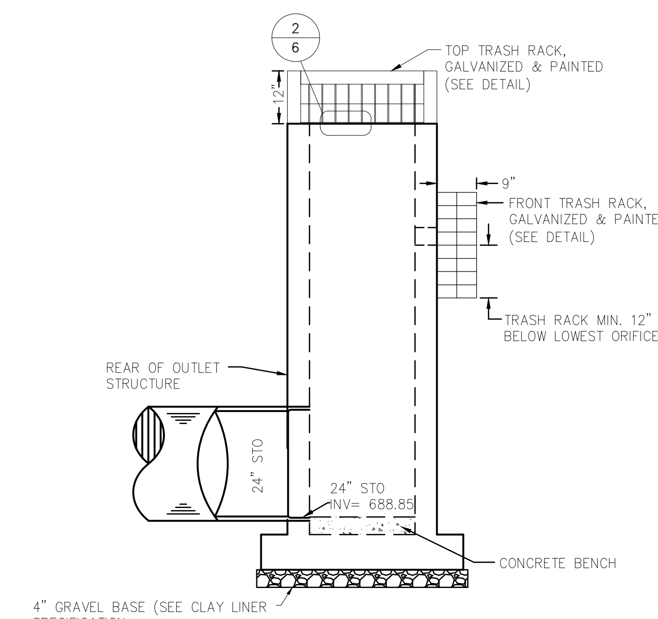
WHERE STORM SEWER, CULVERT OF OTHER STRUCTURE PASSES THROUGH NATIVE CLAY OR CLAY LINER, THE CONTRACTOR SHALL INSTALL CLAY LINER, BENTONITE OR CONCRETE SLURRY (2.0 BAG/C.Y. MIX) BEDDING IN LIEU OF GRAVEL BEDDING & BACKFILL. THE LINER & BENTONITE OR SLURRY SHALL MINIMIZE SEEPAGE ALONG THE OUTSIDE WALL OF THE STORM SEWER, CULVERT OR STRUCTURE INLCUDING 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







POND OUTLET STRUCTURE

McMAHON
ENGINEERS | 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

NO.	DATE	REVISION

COMPANY WOODS POND
CITY OF KAUKAUNA, OUTAGAMIE CO., WI
MISCELLANEOUS DETAIL

DESIGNED	DRAWN
AWS	AWS
PROJECT NO.	
K0006-092200453	
DATE	
NOV., 2022	
SHEET NO.	
06	

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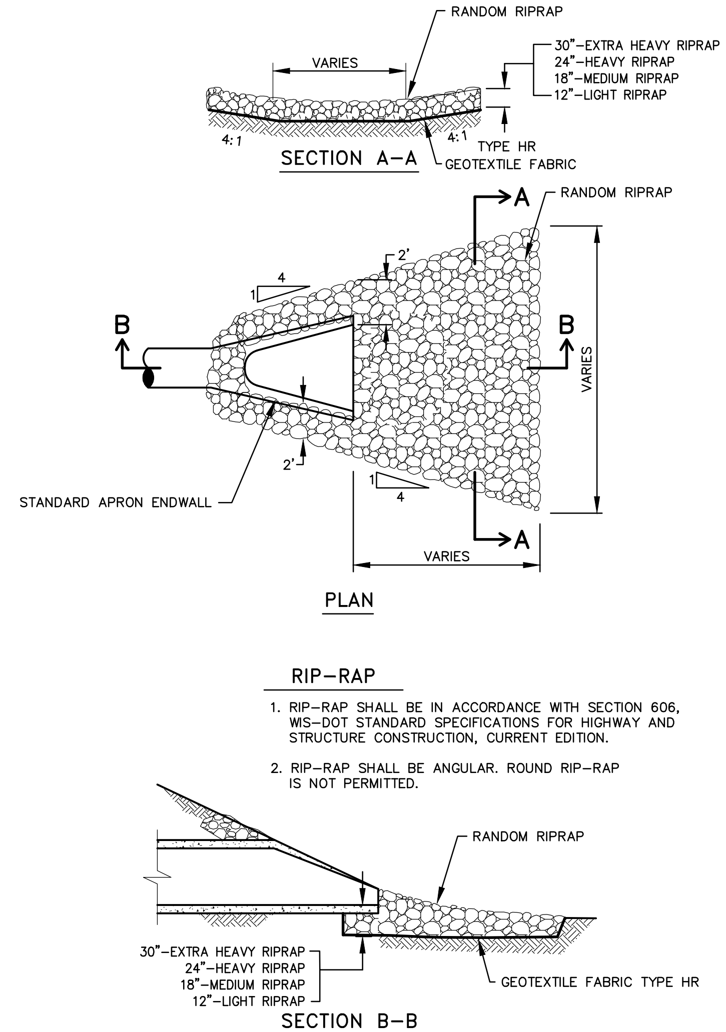
Preliminary - Not for Construction



RIP–RAP

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

RIPRAP AT STORM SEWER OUTFALL

GENERAL NOTES

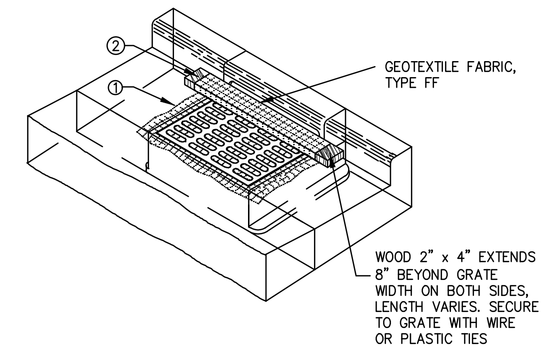
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

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.

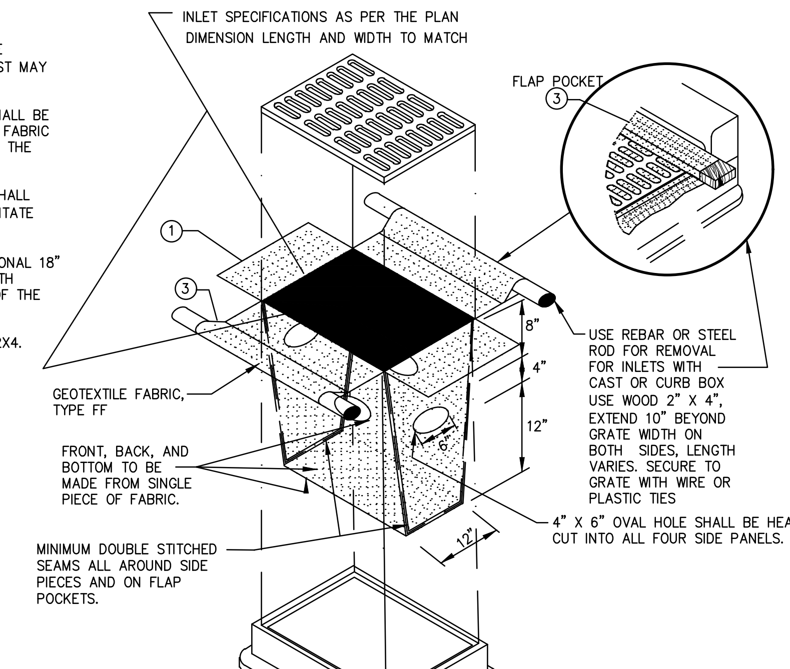
(1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

(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 C
(WITH CURB BOX)



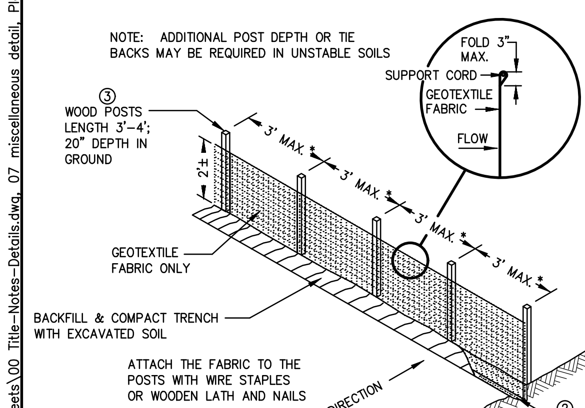
INLET PROTECTION, TYPE D
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2))

INSTALLATION NOTES

TYPE 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.

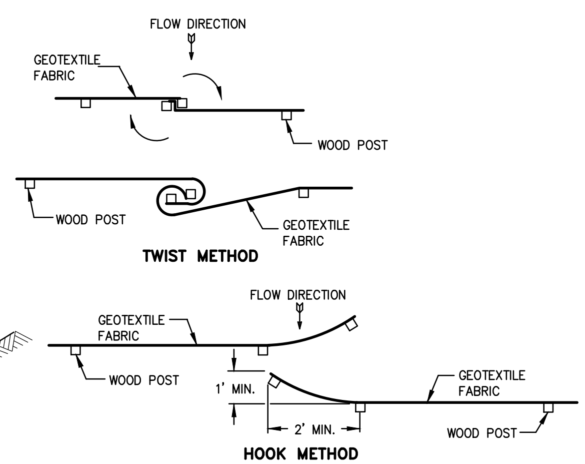
TYPE D
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED 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.

STORM DRAIN INLET PROTECTION

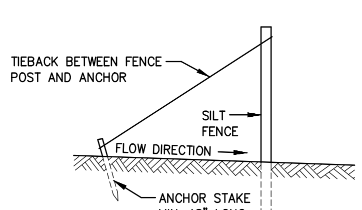


SILT FENCE

NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

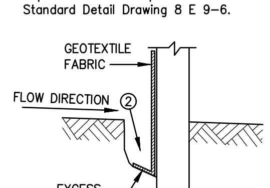


JOINING TWO LENGTHS OF SILT FENCE (5)



SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9–6.

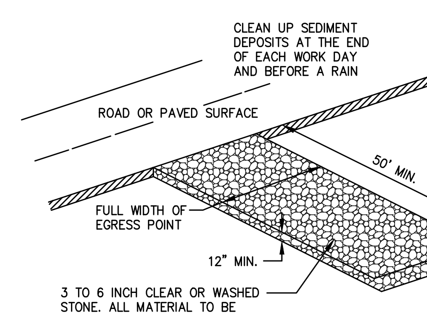


TRENCH DETAIL

SILT FENCE DETAIL

GENERAL NOTES

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



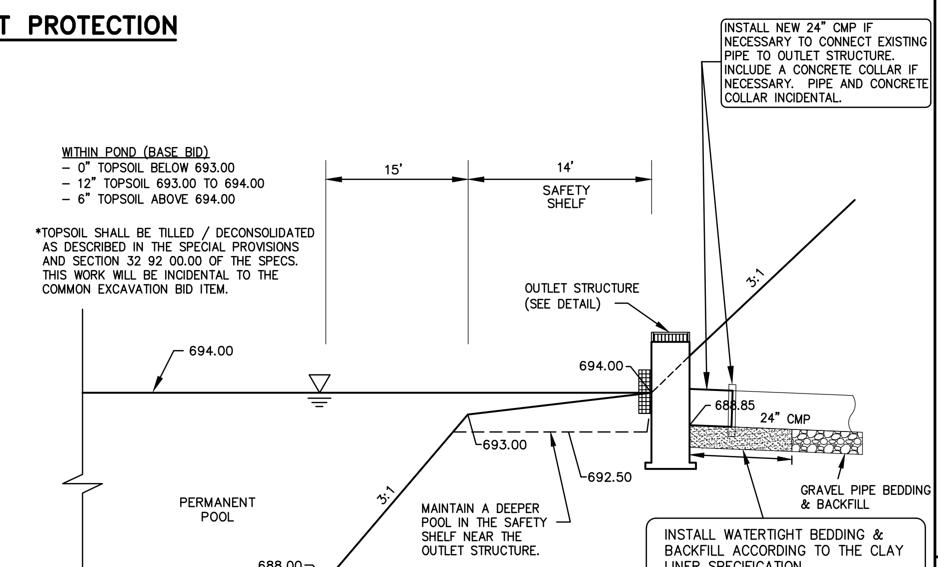
1. DIVERT FLOW AWAY FROM TRACKING PAD USING CULVERTS, SHALLOW TRENCH OR DIVERSION DAM.
2. ROCKS LODGED BETWEEN THE TIRES OF DUAL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE SITE.
3. ON SITES WITH A HIGH WATER TABLE OR SATURATED SOILS, INSTALL A DOT TYPE R GEOTEXTILE FABRIC UNDER STONE TRACKING PAD.

*** MANUFACTURED TRACKOUT CONTROL DEVICE PER WDNR TECHNICAL STANDARD 1057 MAY BE USED.**

TRACKOUT CONTROL

WITHIN POND (BASE BID)
– 0" TOPSOIL BELOW 693.00
– 12" TOPSOIL 693.00 TO 694.00
– 6" TOPSOIL ABOVE 694.00

*TOPSOIL SHALL BE TILLED / DECONSOLIDATED AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 32 92 00.00 OF THE SPECS. 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.

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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

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