

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT
APPROVED

APPROVED DATE: MAY 5, 2020

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

City Engineer

Date

STORMWATER PONDS
DESIGNED BY:

SEE
INDIVIDUAL
SHEETS

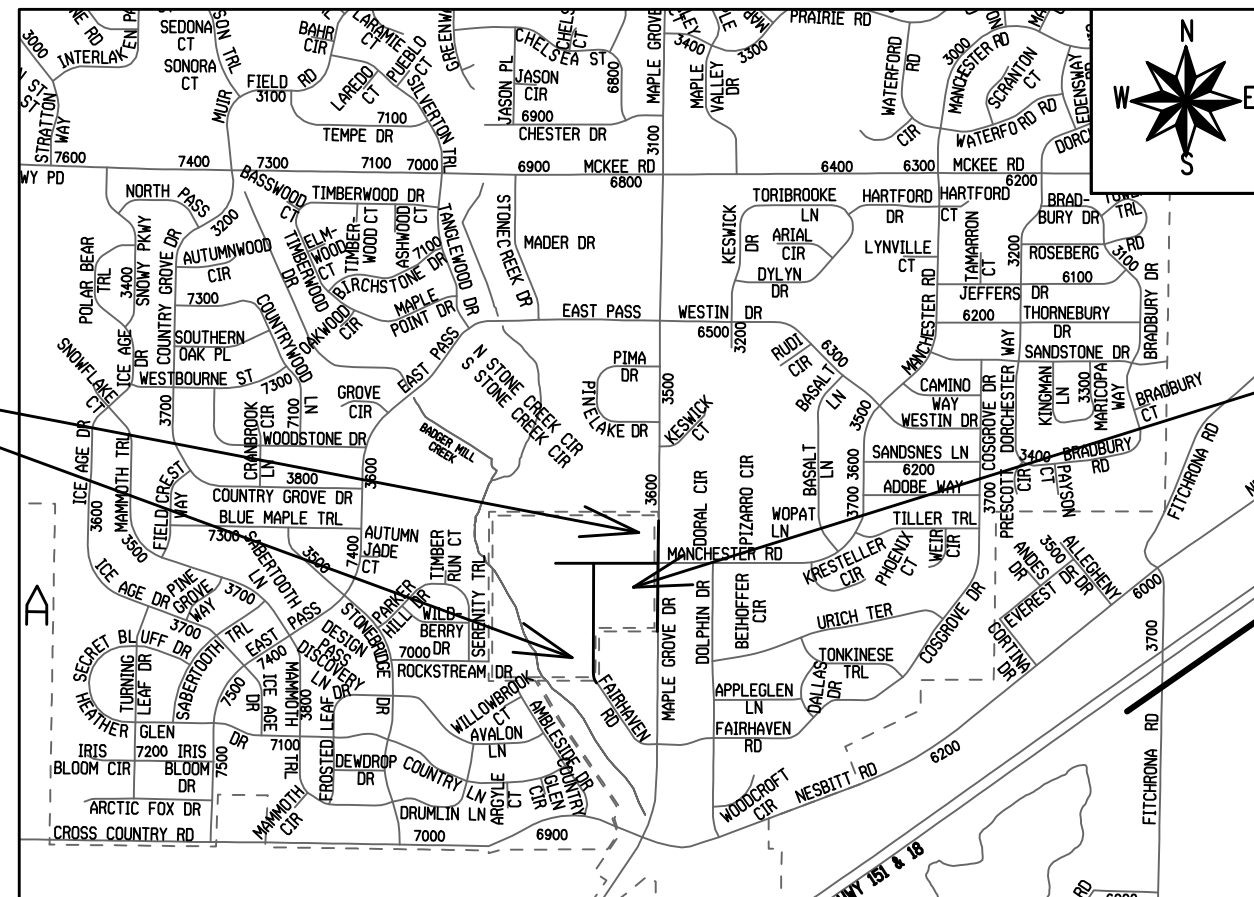
INDEX OF SHEETS

SHEET NO.	TITLE
SHEET NO. 1	TITLE
SHEET NO. EXHIBIT 7	BASIN DETAILS
SHEET NO. EXHIBIT 8.1	STORMWATER NORTH POND
SHEET NO. EXHIBIT 8.2	STORMWATER SOUTH POND
SHEET NO. EXHIBIT G0.01-C9.03	GREENWAY CHANNEL GRADING

3840 MAPLE GROVE DRIVE - (FRED - MAPLE GROVE DRIVE) STORMWATER MANAGEMENT

CITY PROJECT NO. 12771
CONTRACT NO. 8530

STORMWATER
MANAGEMENT



FRED - MAPLE GROVE DRIVE
(SEE PROJECT NO. 12310,
CONTRACT NO. 8402)

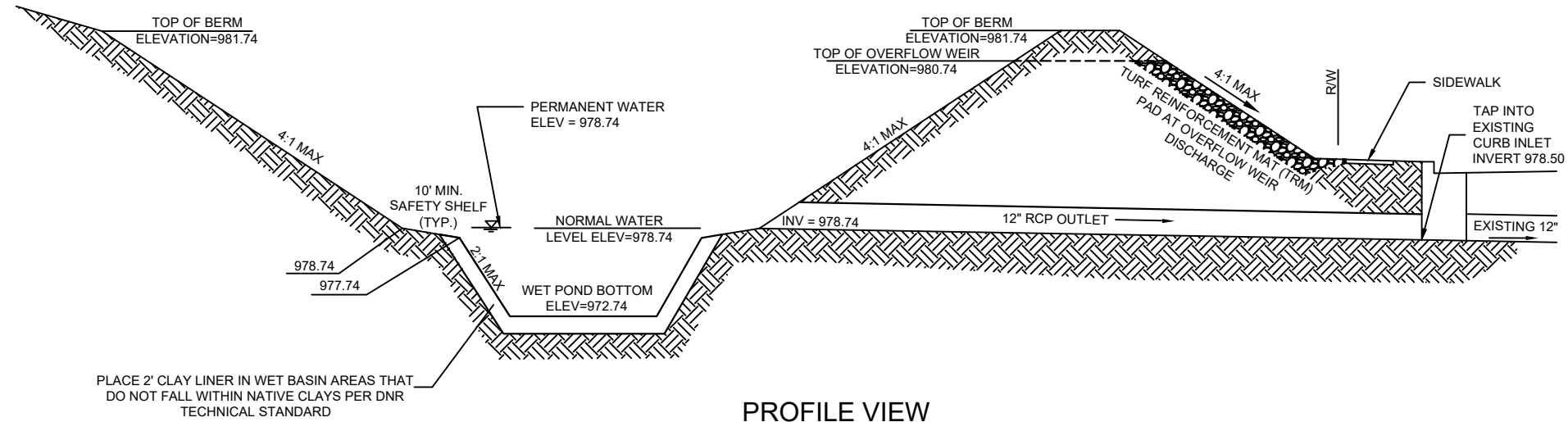
REVISION 01/20/21 AJZ - Added
Channel Grading Sheets

PLOT SCALE: 1 IN=1 FT_XREF

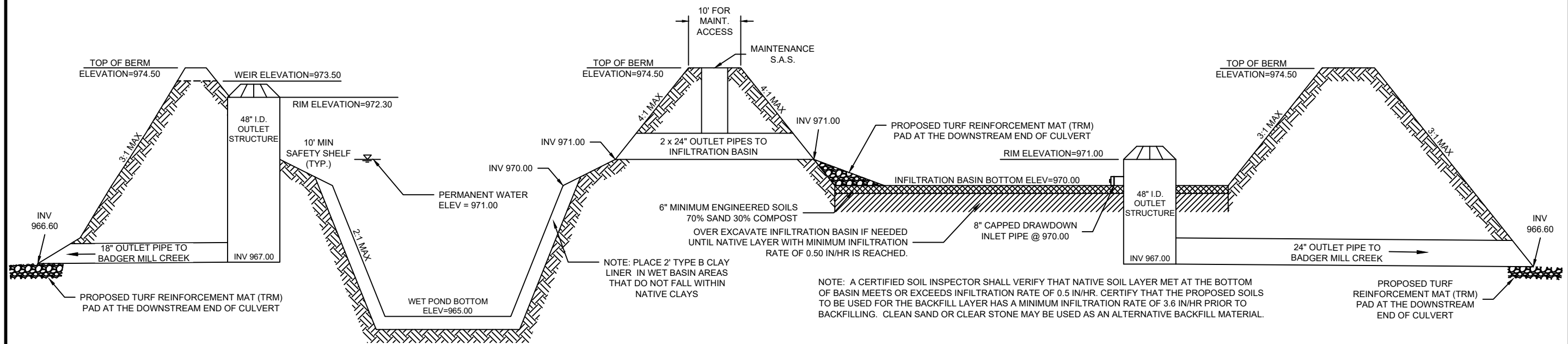
PLOT NAME: ---

REV. DATE: 04/20/20 11:44 AM

ORIGINATOR: CITY_OF_MADISON



PROFILE VIEW
PROPOSED NORTHEAST WET DETENTION BASIN
 NOT TO SCALE



PROFILE VIEW
PROPOSED SOUTH-CENTRAL WET DETENTION BASIN & INFILTRATION BASIN
 NOT TO SCALE

D'ONOFRIO KOTLYE AND ASSOCIATES, INC.
 7500 Westwood Way, Madison, WI 53717
 Phone: 608.833.7200 • Fax: 608.833.1009
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

SOUTH-CENTRAL WET DETENTION AND INFILTRATION BASIN DETAIL

F.R.E.D. MAPLE GROVE DRIVE
 MULTI-FAMILY RESIDENTIAL
 3840 MAPLE GROVE DRIVE
 MADISON, WI 53719



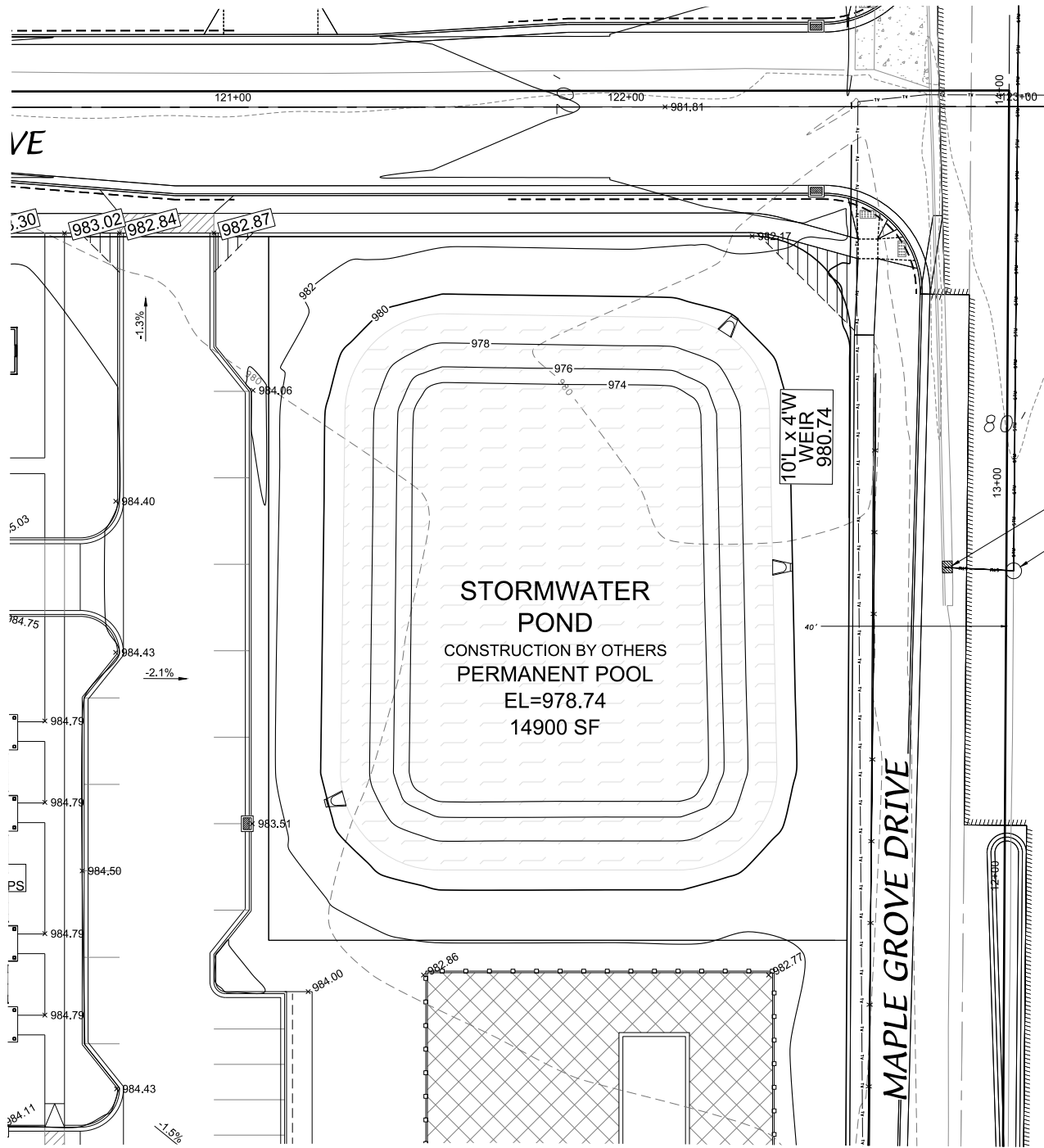
DATE: 08-27-2020
 REVISED:

DRAWN BY: WFK

FN: 19-05-101

Sheet Number:

Exhibit 7



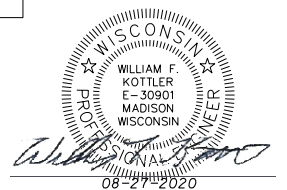
POND RESTORATION NOTES

Infiltration Basin Surface

1. Seed shall be native ecotypes.
2. No improved varieties are allowed.
3. Seed source shall be native ecotypes from Southeast Minnesota, Eastern Iowa, Southern Wisconsin, or Northern Illinois.
4. This seed mix shall consist of "Tallgrass Prairie for Wet-Mesic Soils" as manufactured by Agrecol LLC.
5. Seed shall be placed at a rate of 11 LBS/Acre and shall be accompanied by companion seed included in the price quoted in the proposal page.
6. Approved equals shall be submitted to City Engineering for review and approval.
7. Contractor is notified that if an alternative is allowed, companion seed will still be required and the rate of seed may be altered as a condition of approval.

Retention Pond and Infiltration Basin Berms and Banks

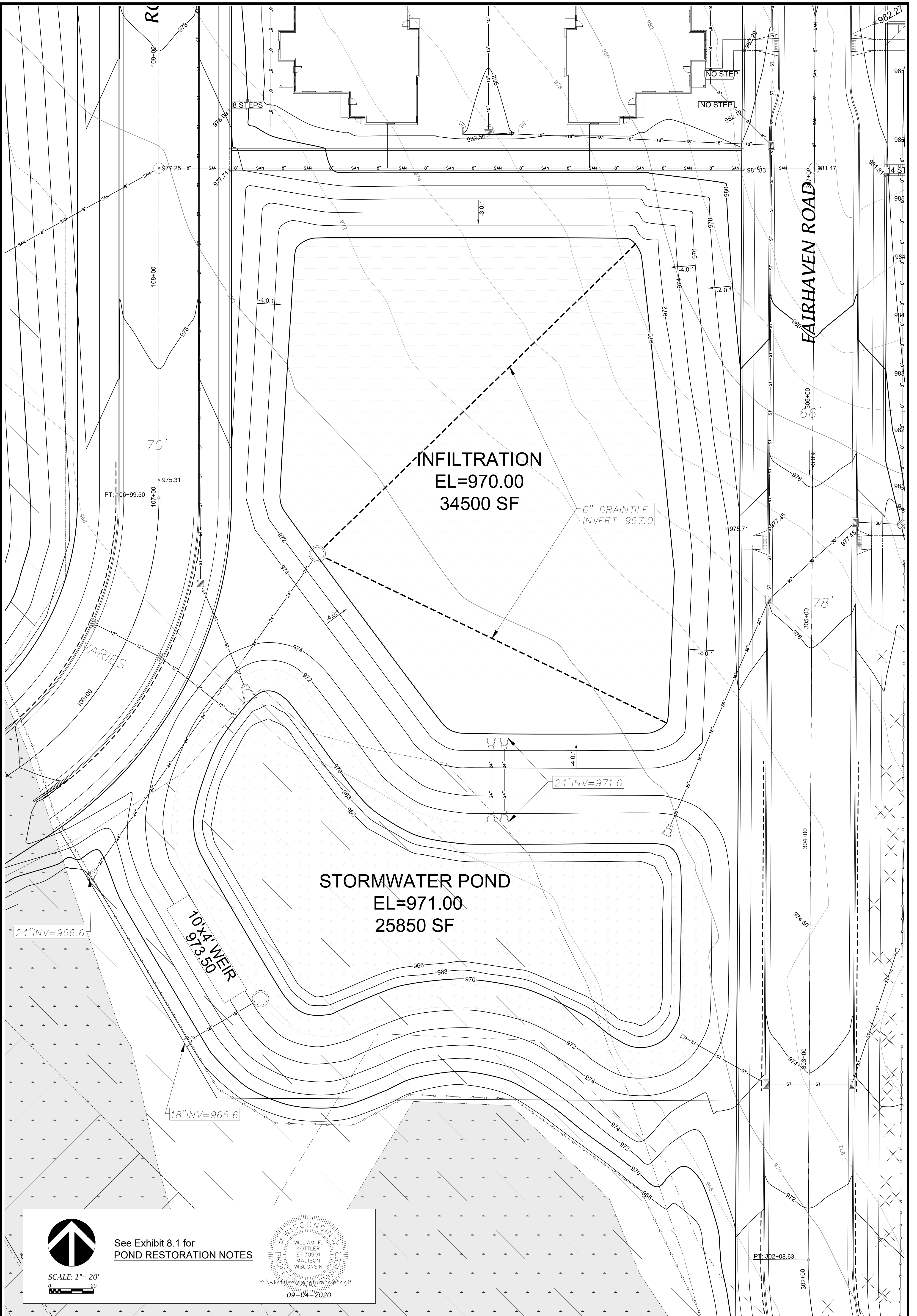
1. Seed shall be native ecotypes.
2. No improved varieties are allowed.
3. Seed source shall be native ecotypes from Southeast Minnesota, Eastern Iowa, Southern Wisconsin, or Northern Illinois
4. This seed mix shall consist of any of the following:
 - 4.1. "Rainwater Renewal Mix" as manufactured by Agrecol LLC.
 - 4.1.1. Seed shall be placed at a rate of 9 LBS/Acre and shall be accompanied by companion seed included in the price quoted in the proposal page.
 - 4.2. "Tallgrass Prairie Seed Mix for Medium Soils" as manufactured by Prairie Moon Nursery.
 - 4.2.1. Seed shall be placed at a rate of 10 LBS/Acre and shall be accompanied by companion seed included in the price quoted in the proposal page.
 - 4.3. "Butterfly Prairie for Medium Soils" as manufactured by Prairie Nursery.
 - 4.3.1. Seed shall be placed at a rate of 10 LBS/Acre and shall be accompanied by companion seed included in the price quoted in the proposal page.
5. Approved equals shall be submitted to City Engineering for review and approval.
6. Contractor is notified that if an alternative is allowed, companion seed will still be required and the rate of seed may be altered as a condition of approval.



DATE:	08-27-2020
REVISION:	
DRAWN BY:	WRK
FN:	19-05-101
Sheet Number:	Exhibit 8.1

F.R.E.D. MAPLE GROVE DRIVE
MULTI-FAMILY RESIDENTIAL
3840 MAPLE GROVE DRIVE
MADISON, WI 53719

D'ONOFRIO KOTTKE AND ASSOCIATES, INC.
7530 Westward Way, Madison, WI 53717
Phone: 608.233.7530 • Fax: 608.233.1009
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT



INFILTRATION
 EL=970.00
 34500 SF

STORMWATER POND
 EL=971.00
 25850 SF

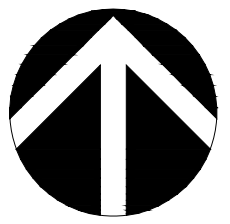
10x4' WEIR
 973.50

6" DRAINTILE
 INVERT=967.0

24" INV=971.0

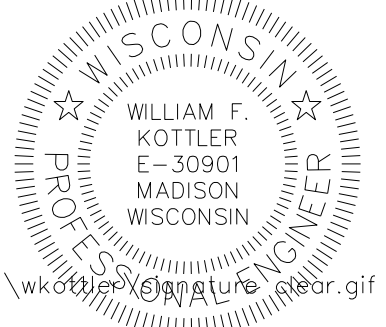
24" INV=966.6

18" INV=966.6



See Exhibit 8.1 for
 POND RESTORATION NOTES

SCALE: 1" = 20'



Y:\wkottler\Signature\wfkot.gif
 09-04-2020

Exhibit 8.2

Sheet Number:
 FN: 19-05-101
 DRAWN BY: WRK
 DATE: 09-04-2020
 REVISED:

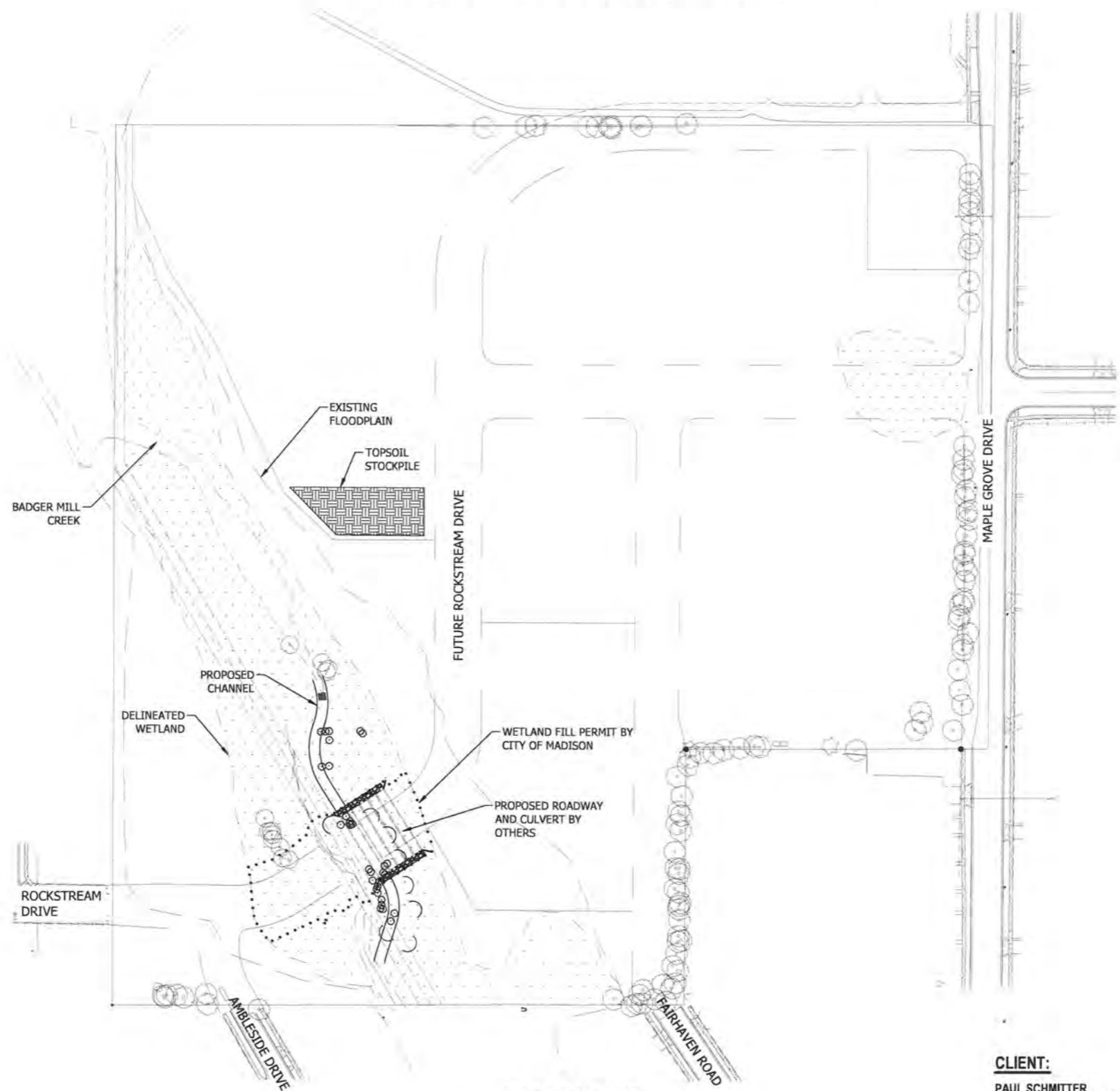
F.R.E.D. MAPLE GROVE DRIVE
 MULTI-FAMILY RESIDENTIAL
 3840 MAPLE GROVE DRIVE
 MADISON, WI 53719

D'ONOFRIO KOTTKE AND ASSOCIATES, INC.
 7530 Westward Way, Madison, WI 53717
 Phone: 608.833.7530 • Fax: 608.833.1089
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

GREENWAY CHANNEL FIDUCIARY REAL ESTATE DEVELOPMENT CITY OF MADISON, WISCONSIN



SHEET NO	DESCRIPTION
G0.01	TITLE SHEET
G0.02	SPECIFICATIONS
C0.01	EXISTING SITE CONDITIONS AND REMOVAL PLAN
C2.01	EROSION CONTROL PLAN
C2.02	EROSION CONTROL DETAILS
C2.03	EROSION CONTROL DETAILS
C3.01	GRADING PLAN AND PROFILE
C3.02	CHANNEL GRADING PLAN
C8.01	STREAM DETAILS
C8.02	STREAM DETAILS
L1.01	LANDSCAPE PLAN
L5.01	LANDSCAPE DETAILS
C9.01	CHANNEL CROSS SECTIONS
C9.02	CHANNEL CROSS SECTIONS
C9.03	CHANNEL CROSS SECTIONS



LOCATION MAP
NO SCALE

CLIENT:
PAUL SCHMITTER
FIDUCIARY REAL ESTATE DEVELOPMENT
789 N. WATER STREET
SUITE 200
MILWAUKEE, WI 53202
TEL. 414-226-4535
pschmitter@fred-inc.com

CIVIL ENGINEER:
AARON VOLKENING, P.E.
STANTEC CONSULTING SERVICES, INC.
12075 CORPORATE PARKWAY,
SUITE 200
MEQUON, WI
TEL. 262-643-9030
aaron.volkening@stantec.com

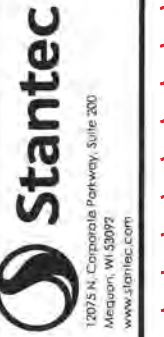


TITLE SHEET
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	K & D
DRAWN	AJR
DESIGNED	BSL
CHECKED	BSL
APPROVED	AV
PROJ. NO.	193706274
SHEET NUMBER	G0.01

Plot Date: 05/08/2020 - 11:30am
 Drawing Name: V:\193706274\193706274\FIDUCIARY_REAL_ESTATE_DEVELOPMENT\193706274\G001.dwg
 The contractor shall verify and be responsible for all dimensions. Do not scale the drawing. Any errors or omissions shall be reported to Stantec without delay. The copyright to all designs and drawings are the property of Stantec. Reproduction without permission is prohibited.

DIGGERS HOTLINE
Call 811 3 Work Days Before You Dig
Or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



STANTEC ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF STANTEC.

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE OWNER, THE MUNICIPALITY, AND WDNR FORTY-EIGHT HOURS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE BIDDER WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES AND SHALL STATE SUCH QUANTITIES IN HIS OR HER PROPOSAL. HE OR SHE SHALL BASE THEIR BID ON HIS OR HER OWN ESTIMATE OF THE WORK REQUIRED AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT IS AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
8. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS OR HER INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
9. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
10. ANY ADJACENT PROPERTIES OR ROAD RIGHTS-OF-WAY WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR TO A CONDITION EQUAL OR BETTER THEN EXISTING. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL AND SHOULD BE INCLUDED IN THE BID PRICES.
11. CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF MADISON EROSION CONTROL ORDINANCE AND WDNR TECHNICAL STANDARDS.
12. CONTRACTOR TO FOLLOW WISCONSIN STANDARD SPECIFICATIONS AND WDNR TECHNICAL STANDARDS (CURRENT EDITION).
13. CONTRACTOR TO PROVIDE CONSTRUCTION STAKING AND AS-BUILT SURVEY PER CITY OF MADISON REQUIREMENTS.
14. CONTRACTOR TO PERFORM WEEKLY AND AFTER EACH RAIN EVENT TOTALING ONE-HALF INCH OR MORE, EROSION CONTROL INSPECTIONS AND REPORTS, TO BE KEPT ON SITE.
15. CONTRACTOR TO CLEAR AND GRUB ALL PROPOSED DISTURBED AREAS.
16. CONTRACTOR TO SWEEP ALL POINTS FOR INGRESS AND EGRESS TO EXISTING ROADWAYS AT END OF EACH DAY. ANY MATERIAL TRACKED ONTO A ROADWAY MUST BE CLEANED IMMEDIATELY.
17. CONTRACTOR TO PROVIDE SAMPLE OF FIELDSTONE RIPRAP FOR OWNER APPROVAL.
18. CONTRACTOR TO CONDUCT WEEKLY PROJECT MEETINGS OR UPDATES AND PROVIDE MONTHLY PAY REQUESTS.
19. CONTRACTOR TO BE SUBSTANTIALLY COMPLETE BY OCTOBER 1, 2020 AND FINAL COMPLETION BY OCTOBER 31, 2020.

CONSTRUCTION SEQUENCE

1. INSTALL SILT FENCE AND / OR STRAW WATTLES AS SHOWN ON PLAN. MAINTAIN AS NECESSARY DURING CONSTRUCTION.
2. INSTALL TRACKING PAD.
3. BEGIN CLEARING AND GRUBBING OF SITE.
4. COMPLETE EXCAVATION AND CONSTRUCTION OF NEW CHANNEL UP TO CHANNEL "PLUG".
5. COMPLETE RESTORATION OF GRADED AREAS AND OTHER AREAS INCIDENTAL TO CONSTRUCTION.
6. CONSTRUCT CHANNEL.
7. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL BMP'S WHEN DISTURBED AREAS ARE PERMANENTLY STABILIZED AND NO LONGER SUSCEPTIBLE TO EROSION.
8. CONTRACTOR TO REMOVE CHANNEL PLUG IMMEDIATELY FOLLOWING CULVERT INSTALLATION, BY OTHERS.

GRADING NOTES

1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS, LOCAL ORDINANCES AND SPECIFICATIONS, AND RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
2. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
3. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
4. CONTRACTOR TO CAP/REPLACE ANY DRAIN TILE, IN KIND, ENCOUNTERED TO ALLOW FOR CONTINUED POSITIVE DRAINAGE.
5. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AN ON-SITE EARTHWORK BALANCE, GRADING THE PROPOSED CHANNEL AND WETLAND SCRAPES, AND PLACEMENT OF TOPSOIL.
6. ALL FILL AREAS SHALL HAVE A MINIMUM 2.0% SLOPE FOR DRAINAGE.

GENERAL LANDSCAPE NOTES

1. CONTRACTOR RESPONSIBLE FOR CONTACTING PUBLIC AND PRIVATE UNDERGROUND UTILITY LOCATING SERVICE TO HAVE SITE MARKED PRIOR TO ANY DIGGING OR EARTHWORK.
2. CONTRACTOR TO REPAIR AND RESTORE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO ORIGINAL CONDITION.
3. GERMINATION RECORDS OF SEED MIXES SUBSTITUTIONS MUST BE SUBMITTED IN WRITING AND APPROVED BY THE GENERAL CONTRACTOR OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. ALL PLANTS MUST BE INSTALLED AS PER SIZES SHOWN ON PLANT MATERIAL SCHEDULE, UNLESS APPROVED BY GENERAL CONTRACTOR OR OWNER'S REPRESENTATIVE.
4. TOPSOIL SHOULD BE PLACED TO WITHIN 3" OF FINISH GRADE BY GENERAL / GRADING CONTRACTOR DURING ROUGH GRADING OPERATIONS.
5. CONTRACTOR TO BE RESPONSIBLE FOR THE FINE GRADING OF ALL LANDSCAPED AREAS. A MINIMUM DEPTH OF 3" OF BLENDED, PREPARED AND NON-COMPACTED TOPSOIL IS REQUIRED FOR ALL SEEDED AREAS. FINISHED LANDSCAPED AREAS TO BE SMOOTH, UNIFORM AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND PAVEMENT.
6. PROJECT COMPLETION: UPON SUBSTANTIAL COMPLETION OF THE PROJECT, CONTRACTOR IS RESPONSIBLE TO CONDUCT A FINAL REVIEW WITH THE OWNER'S REPRESENTATIVE AND THE GENERAL CONTRACTOR TO ANSWER QUESTIONS AND INSURE THAT ALL SPECIFICATIONS HAVE BEEN MET, THE CONTRACTOR IS TO PROVIDE WATERING IF NEEDED.
7. CONTRACTOR TO PROVIDE, INSTALL AND REMOVE, ROOT STOCK PROTECTION FOR ROOTSTOCK PLANTED FOR THE ONE-YEAR WARRANTY PERIOD.



SPECIFICATIONS
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSL
APPROVED	
PROJ. NO.	193706074
SHEET NUMBER	G0.02

File Date: 05/08/2020 12:53pm
 User: jason.cassidy
 Path: I:\Projects\2020\193706074\Drawings\193706074-G002.dwg
 Plot: 05/08/2020 12:53pm
 Plot Device: HP DesignJet T1100ps

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

REVISION 01/20/21 AJZ
- New Sheet



EXISTING CONDITIONS AND REMOVALS PLAN
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSI
APPROVED	
PROJ. NO.	193726074
SHEET NUMBER	C0.01

LEGEND

- RIGHT-OF-WAY
- FLOODPLAIN
- STREAM
- WETLAND
- (31) TREE REMOVALS
- TREE IN RIGHT OF WAY TO BE REMOVED BY OTHERS
- TREE TO REMAIN

- NOTE:**
1. TREES AND ROOT WADS TO BE REMOVED.
 2. TREES WITHIN ROAD RIGHT-OF-WAY TO BE REMOVED BY OTHERS.
 3. TREES IN MADISON METROPOLITAN SEWERAGE DISTRICT (MMSD) EASEMENT SHALL BE REMOVED WITH COORDINATION OF THE MMSD, PRIOR TO REMOVAL.

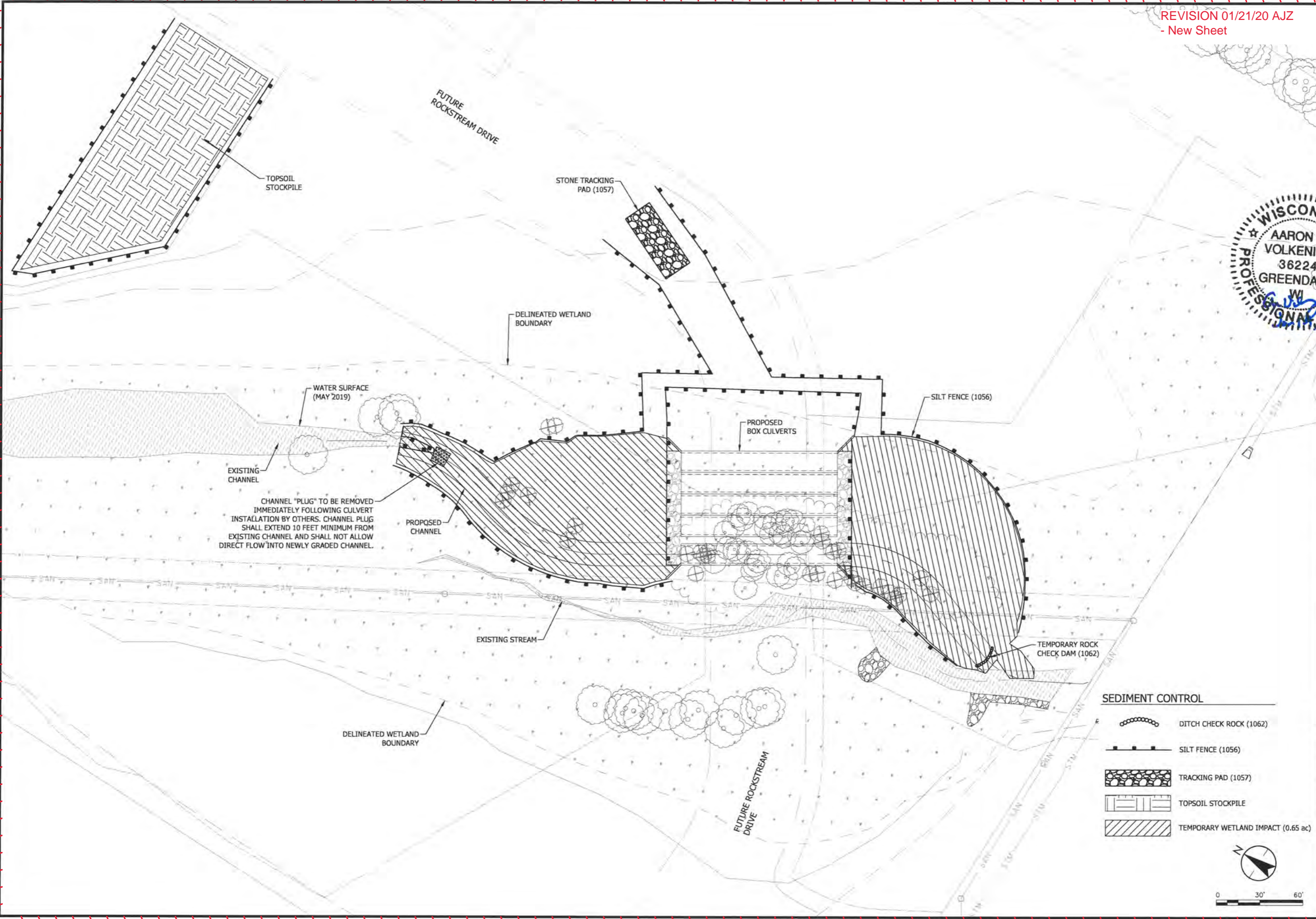


Plot Date: 05/08/2020 - 12:53pm
C:\Users\ajz\OneDrive\Documents\193726074\C001.dwg








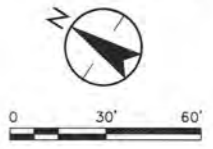
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERROR OR OMISSION SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

Plot Date: 05/08/2020 - 12:53pm
Drawing Name: \\19370607\active\19370607\AVAL\delin\delin.dwg User: 19370607\AC200.dwg



CHANNEL "PLUG" TO BE REMOVED IMMEDIATELY FOLLOWING CULVERT INSTALLATION BY OTHERS. CHANNEL PLUG SHALL EXTEND 10 FEET MINIMUM FROM EXISTING CHANNEL AND SHALL NOT ALLOW DIRECT FLOW INTO NEWLY GRADED CHANNEL.

- SEDIMENT CONTROL**
-  DITCH CHECK ROCK (1062)
 -  SILT FENCE (1056)
 -  TRACKING PAD (1057)
 -  TOPSOIL STOCKPILE
 -  TEMPORARY WETLAND IMPACT (0.65 ac)

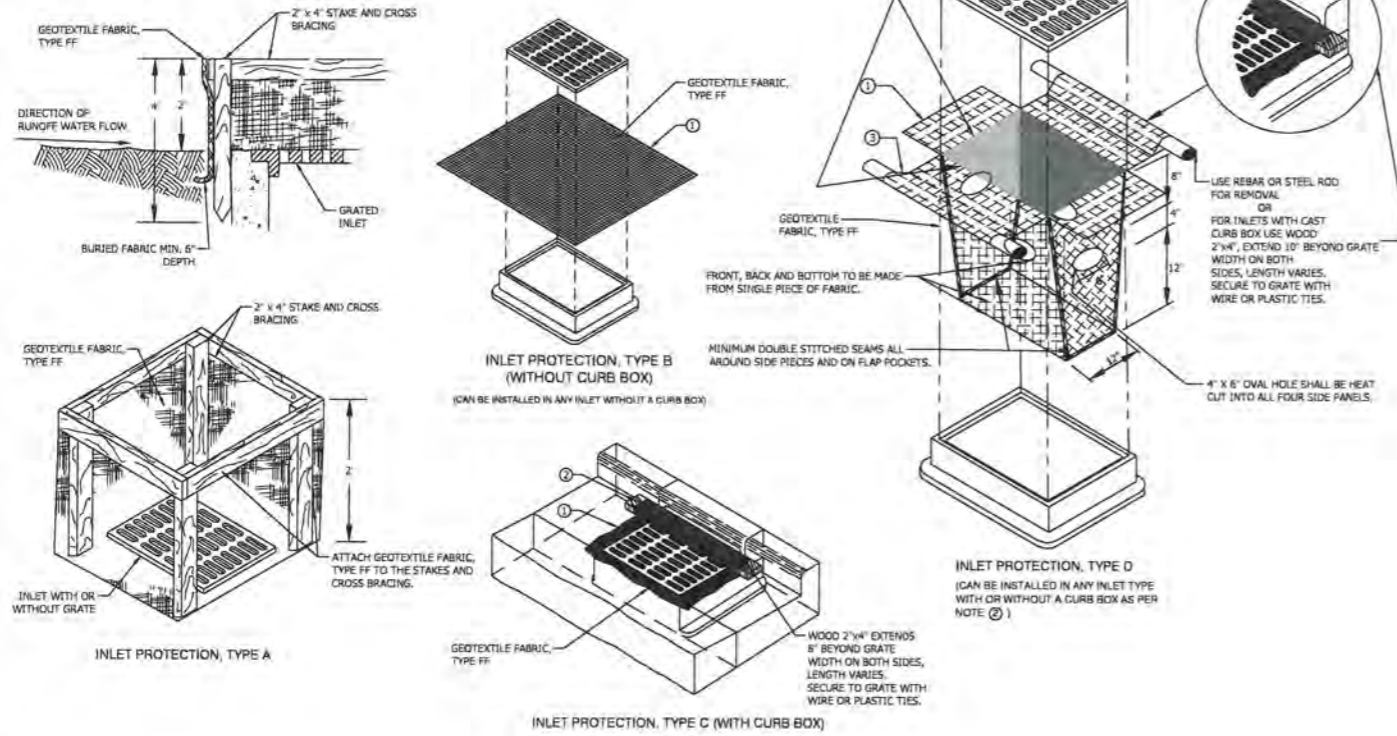


EROSION CONTROL PLAN
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

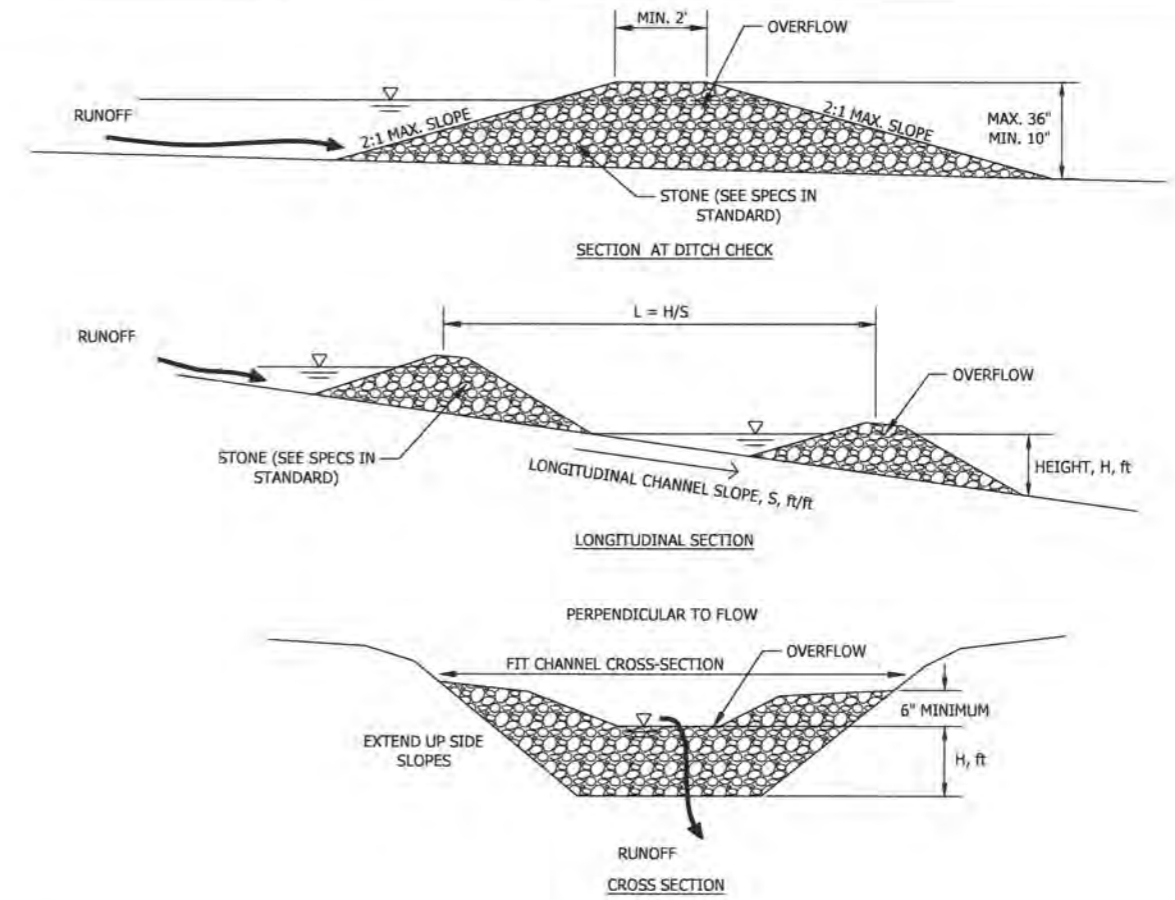
DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSJ
APPROVED	
PROJ. NO.	193706074
SHEET NUMBER	C2.01

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND SPECIFICATIONS. THE DRAWING - ANY ERROR OR OMISSION SHALL BE REVERSED TO STANTEC WITHOUT DELAY. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND SPECIFICATIONS. THE DRAWING - ANY ERROR OR OMISSION SHALL BE REVERSED TO STANTEC WITHOUT DELAY.

- 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.



1 INLET PROTECTION (1060)
NTS



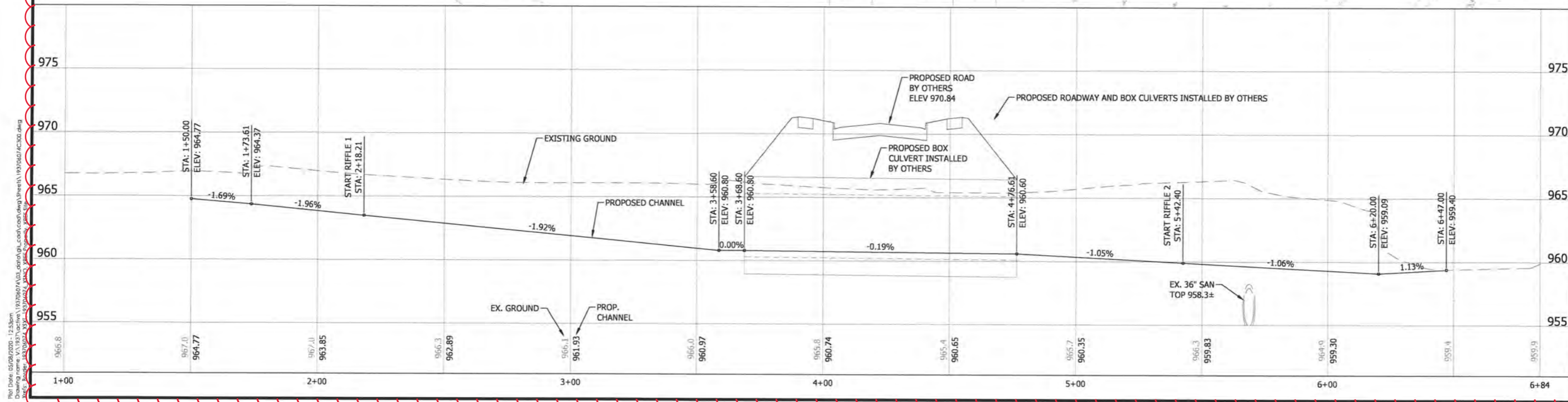
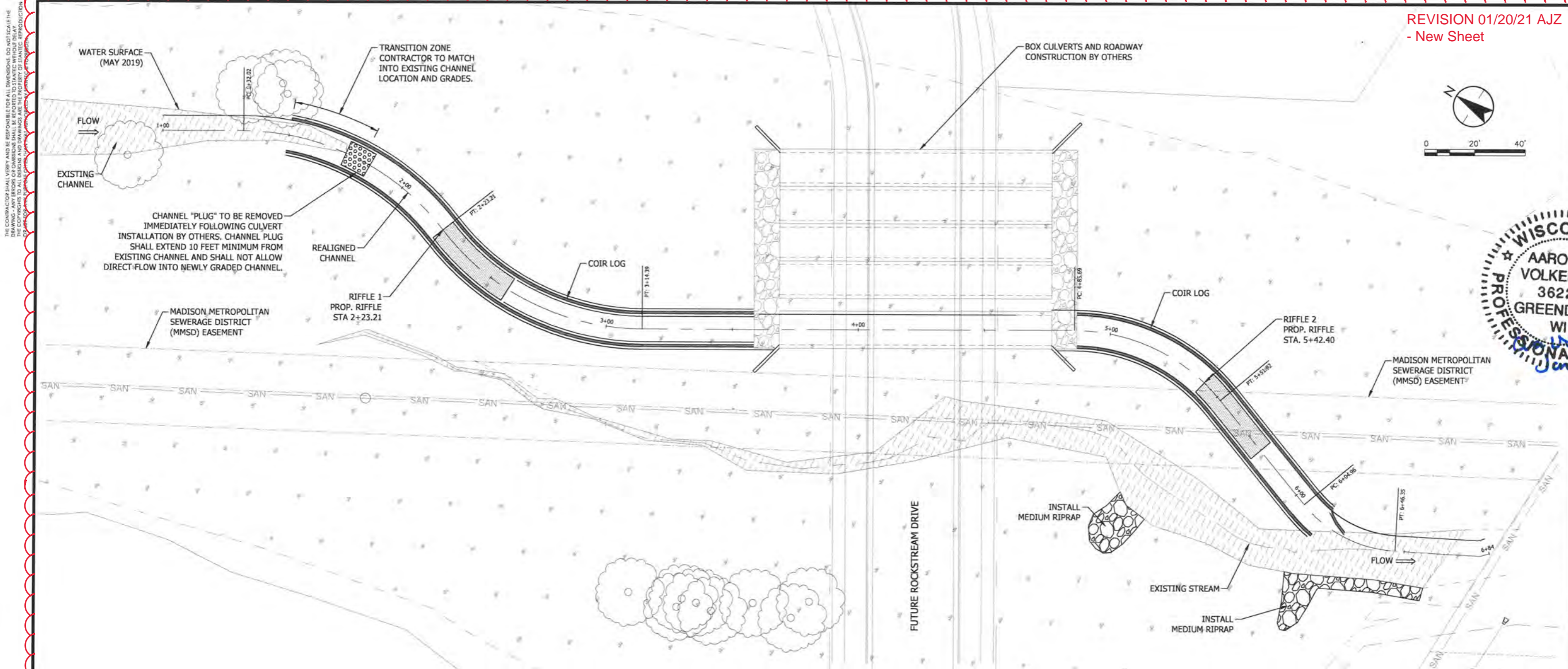
2 TEMPORARY ROCK CHECK DAM (1062)
NTS



DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	
APPROVED	
PROJ. NO.	193706074
SHEET NUMBER	C2.03

REVISION 01/20/21 AJJ
- New Sheet

Plot Date: 05/08/2020 - 12:53pm
Drawing Name: V:\193706074\193706074\193706074\193706074.dwg
Drawing Path: V:\193706074\193706074\193706074\193706074.dwg



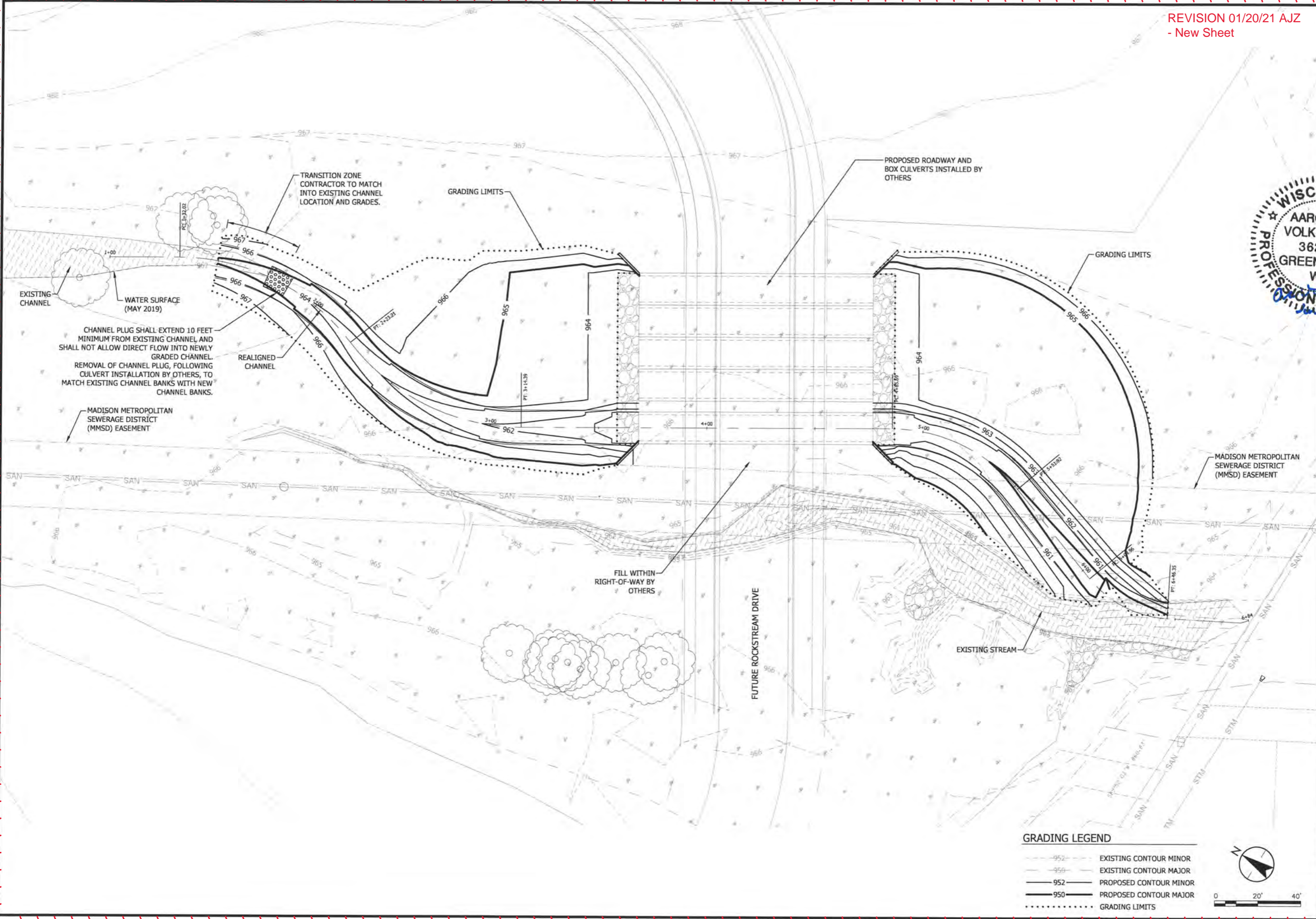
CHANNEL PLAN AND PROFILE
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO/REVISION	DATE
SURVEY	K & D
DRAWN	AJR
DESIGNED	BSL
CHECKED	BSL
APPROVED	AV
PROJ. NO.	193706074
SHEET NUMBER	C3.01

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERROR OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF STANTEC IS PROHIBITED.
 File Path: S:\2020\193706074\193706074\193706074\193706074.dwg
 Drawing name: 193706074.dwg
 User: a.j.volkering

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERROR OF DIMENSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. CONFORM TO ALL DESIGN AND DRAWING AND MARKING AND THE PRIORITY OF STANDARD REPRODUCTION.

REVISION 01/20/21 AJZ
- New Sheet



CHANNEL PLUG SHALL EXTEND 10 FEET MINIMUM FROM EXISTING CHANNEL, AND SHALL NOT ALLOW DIRECT FLOW INTO NEWLY GRADED CHANNEL. REMOVAL OF CHANNEL PLUG, FOLLOWING CULVERT INSTALLATION BY OTHERS, TO MATCH EXISTING CHANNEL BANKS WITH NEW CHANNEL BANKS.

TRANSITION ZONE CONTRACTOR TO MATCH INTO EXISTING CHANNEL LOCATION AND GRADES.

PROPOSED ROADWAY AND BOX CULVERTS INSTALLED BY OTHERS

FILL WITHIN RIGHT-OF-WAY BY OTHERS

GRADING LEGEND

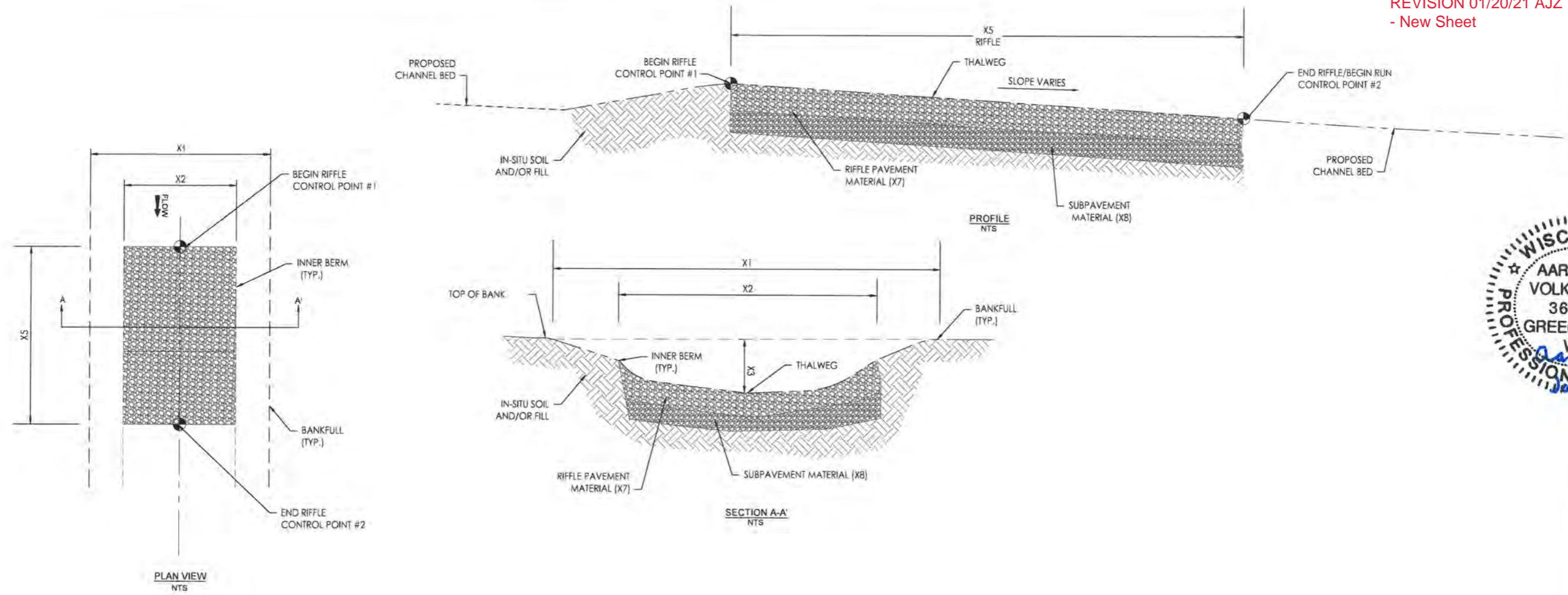
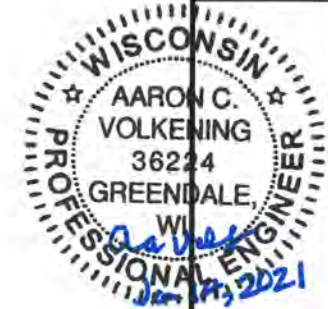
- 952 --- EXISTING CONTOUR MINOR
- 950 --- EXISTING CONTOUR MAJOR
- 952 — PROPOSED CONTOUR MINOR
- 950 — PROPOSED CONTOUR MAJOR
- GRADING LIMITS



CHANNEL GRADING PLAN
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	R & D
DRAWN	AJR
DESIGNED	BSI
CHECKED	BSI
APPROVED	AV
PROJ. NO.	193706074
SHEET NUMBER	C3.02

File Date: 05/08/2020 - 12:53pm
Path: \\server\projects\193706074\193706074.dwg
User: ajr



LEGEND	
	RIFFLE PAVEMENT MATERIAL
	SUBPAVEMENT MATERIAL

NOTES:

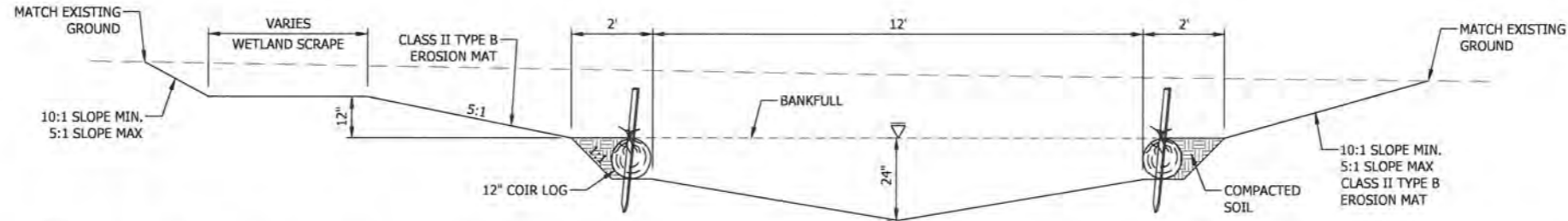
1. COBBLE / GRAVEL RIFFLES SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE TYPICAL SECTIONS, THE DETAIL, DIMENSION TABLE, AND SPECIFICATION. THE LOCATION AND ELEVATION OF PROPOSED COBBLE / GRAVEL RIFFLES MAY BE FIELD ADJUSTED BY THE ENGINEER BASED ON SITE CONDITIONS (EXISTING / PROPOSED CULVERTS, UTILITIES, BEDROCK, LANDSCAPE WALLS, TREES, ETC.) ENCOUNTERED IN THE FIELD DURING CONSTRUCTION AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
2. COBBLE / GRAVEL RIFFLES TRANSITIONS TO ADJACENT GROUND SURFACES SHALL BE SMOOTH, EVENLY GRADED, AND ROUNDED.
3. RIP RAP, BEDDING STONE, CRUSHER RUN SHALL BE MECHANICALLY MIXED, PER THE PERCENTAGES SHOWN IN THE DIMENSION TABLE, WITH A LOADER, EXCAVATOR, OR OTHER EQUIPMENT IN ORDER TO CREATE A RANDOM AND WELL GRADED MIX.

COBBLE/GRAVEL RIFFLE DIMENSIONS				
VARIABLE	RIFFLE 1	RIFFLE 2	TYPICAL UNIT	DESCRIPTION
X1	16	16	FT.	RIFFLE BANKFULL WIDTH
X2	12	12	FT.	RIFFLE INNER BERM WIDTH
X3	2	2	FT.	RIFFLE BANKFULL MAX DEPTH
X5	25	35	FT.	RIFFLE LENGTH
X7	2"-6" COBBLE	6"-14"	IN.	RIFFLE PAVEMENT MATERIAL CATEGORY: COBBLE
X7	3.5	10	IN.	RIFFLE PAVEMENT MATERIAL - D50
X7	12	12	IN.	RIFFLE PAVEMENT - THICKNESS
X7	10% (MAX) - 14" RIP RAP 15% - 20% - 8" RIP RAP 60% - 65% - 6" BEDDING 5% (MAX) - CRUSHER RUN	10% (MAX) - 14" RIP RAP 15% - 20% - 8" RIP RAP 60% - 65% - 6" BEDDING 5% (MAX) - CRUSHER RUN	%	RIFFLE PAVEMENT MATERIAL COMPOSITION (BY VOLUME)
X8	GRAVEL	NA	N/A	SUBPAVEMENT MATERIAL CATEGORY: GRAVEL
X8	1.5	NA	IN.	SUBPAVEMENT MATERIAL - D50
X8	12	NA	IN.	SUBPAVEMENT MATERIAL - THICKNESS
X8	20% - 6" BEDDING 80% - CRUSHER RUN	NA	%	SUBPAVEMENT MATERIAL COMPOSITION (BY VOLUME)

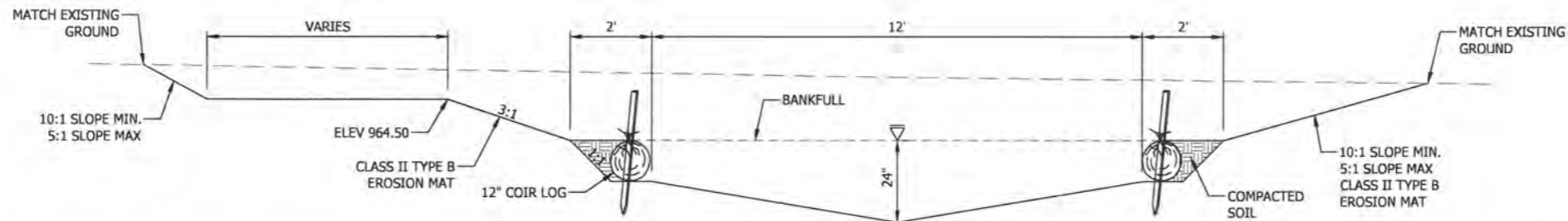
STREAM DETAILS
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BS
APPROVED	
PROJ. NO.	193796074
SHEET NUMBER	C8.01

Plot Date: 05/08/2020 14:25:44
 Drawn: C:\Users\193796074\Desktop\193796074\193796074.dwg
 Title: Stream



1 DETAIL - TYPICAL CHANNEL UPSTREAM OF CULVERT
 NOT TO SCALE



2 DETAIL - TYPICAL CHANNEL DOWNSTREAM OF CULVERT
 NOT TO SCALE

STREAM DETAILS
 GREENWAY CHANNEL
 FIDUCIARY REAL ESTATE DEVELOPMENT
 CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSL
APPROVED	
PROJ. NO.	193706074
SHEET NUMBER	C8.02

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REFERRED TO STANTEC WITHOUT DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

Plot Date: 05/08/2020 - 12:53pm
 Drawing Name: V:\1937\active\193706074\01_dwg\193706074_01.dwg
 User: aaron.volkening

REVISION 01/20/21 AJZ
- New Sheet



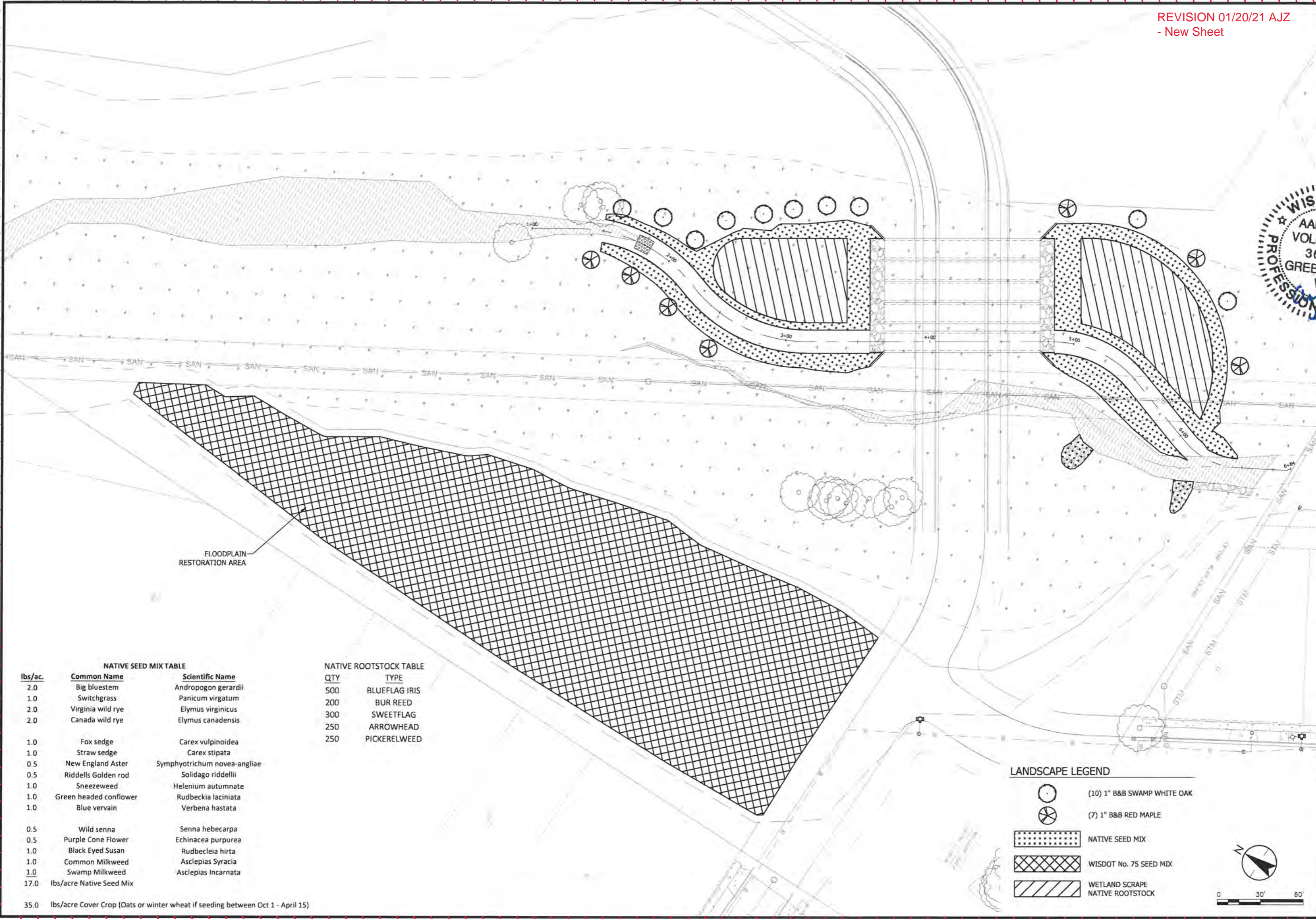
12075 N. Corporate Parkway, Suite 200
Mequon, WI 53092
www.stantec.com



LANDSCAPE PLAN
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 13, 2020
NO REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSL
APPROVED	
PROJ. NO.	193706074
SHEET NUMBER	L1.01

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES.



FLOODPLAIN RESTORATION AREA

NATIVE SEED MIX TABLE

lbs/ac.	Common Name	Scientific Name
2.0	Big bluestem	Andropogon gerardii
1.0	Switchgrass	Panicum virgatum
2.0	Virginia wild rye	Elymus virginicus
2.0	Canada wild rye	Elymus canadensis
1.0	Fox sedge	Carex vulpinoidea
1.0	Straw sedge	Carex stipata
0.5	New England Aster	Symphotrichum novea-angliae
0.5	Riddells Golden rod	Solidago riddellii
1.0	Sneezeweed	Helenium autumnate
1.0	Green headed conflower	Rudbeckia laciniata
1.0	Blue vervain	Verbena hastata
0.5	Wild senna	Senna hebecarpa
0.5	Purple Cone Flower	Echinacea purpurea
1.0	Black Eyed Susan	Rudbeckia hirta
1.0	Common Milkweed	Asclepias Syriaca
1.0	Swamp Milkweed	Asclepias Incarnata

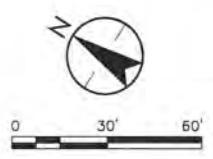
NATIVE ROOTSTOCK TABLE

QTY	TYPE
500	BLUEFLAG IRIS
200	BUR REED
300	SWEETFLAG
250	ARROWHEAD
250	PICKERELWEED

35.0 lbs/acre Cover Crop (Oats or winter wheat if seeding between Oct 1 - April 15)

LANDSCAPE LEGEND

- (10) 1" B&B SWAMP WHITE OAK
- (7) 1" B&B RED MAPLE
- NATIVE SEED MIX
- WISDOT No. 75 SEED MIX
- WETLAND SCRAPE NATIVE ROOTSTOCK





NOTES:

1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES, SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. STAKE TREES ONLY AS SPECIFIED AT THE DIRECTION OF LANDSCAPE ARCHITECT WRAP TREE TRUNKS AS SPECIFIED. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH IN THE FIELD.
3. SET TOP OF ROOT BALL FLUSH TO GRADE OR 1-2 IN. HIGHER IN SLOWLY DRAINING SOILS.
4. CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT OF ANY POTENTIAL DRAINAGE ISSUES PRIOR TO FINAL PLANTING. INSTALL APPROVED DRAINAGE MATERIALS AS DIRECTED.
5. IF PLANT IS SHIPPED WITH A CONTAINER AROUND THE ROOTBALL, SLICE SIDES OF CONTAINER AND REMOVE COMPLETELY. USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY CIRCLING ROOTS.
6. TO IMPROVE TRANSPLANTING SUCCESS THE FOLLOWING VARIETIES SHOULD BE SPRING PLANTED ONLY: PINE, OAK, MAPLE, HONEYLOCUST AND CRABAPPLE.

PRUNE BRANCHES TO A MINIMUM OF 8' TO ALLOW FOR A CLEAR SIGHT DISTANCE

REMOVE ALL TWINE, ROPE, WIRE BASKET & BURLAP FROM TOP 1/3 OF ROOT BALL OR TO 2ND RING OF WIRE BASKET, WHICHEVER IS GREATER. REMOVE ALL PLASTIC WRAP OR ROPE FROM ENTIRE BALL. PLACE ROOT BALL ON FIRM UNEXCAVATED OR TAMPED SOIL.

TAMP SOIL AROUND BASE OF ROOT BALL FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

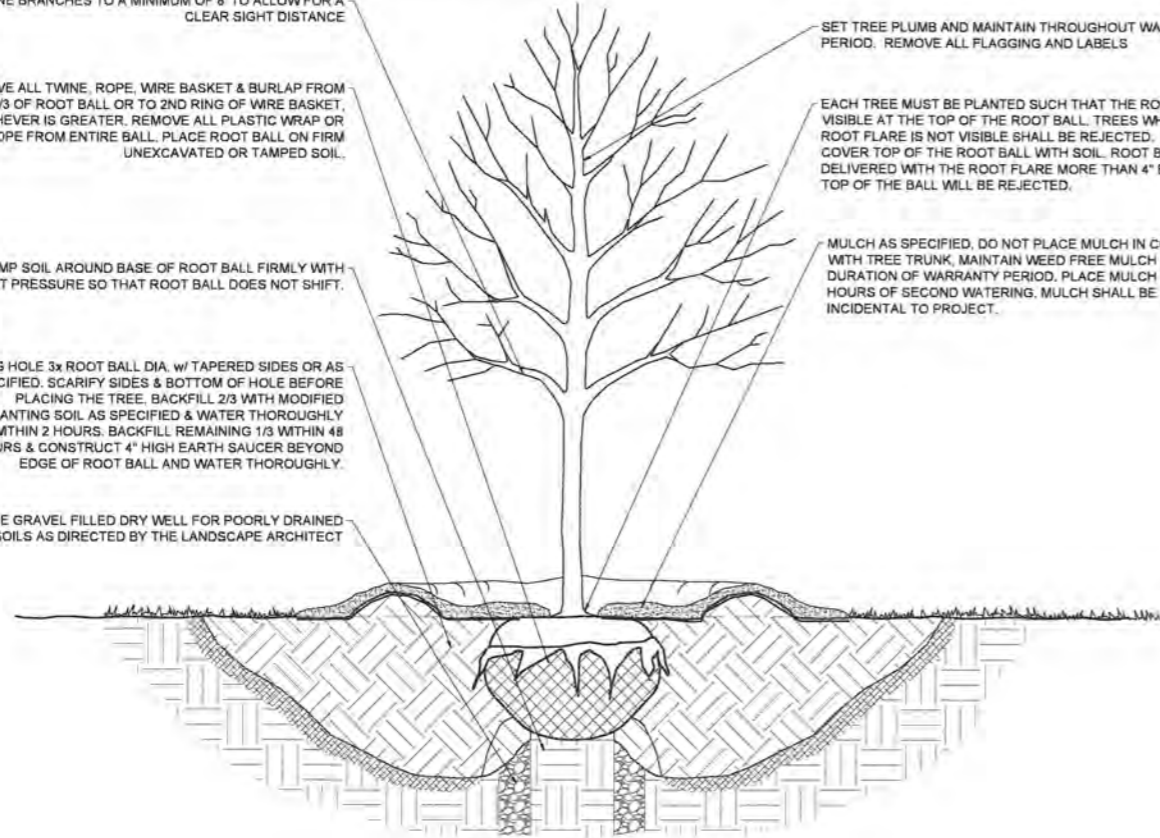
DIG HOLE 3x ROOT BALL DIA. w/ TAPERED SIDES OR AS SPECIFIED. SCARIFY SIDES & BOTTOM OF HOLE BEFORE PLACING THE TREE. BACKFILL 2/3 WITH MODIFIED PLANTING SOIL AS SPECIFIED & WATER THOROUGHLY WITHIN 2 HOURS. BACKFILL REMAINING 1/3 WITHIN 48 HOURS & CONSTRUCT 4" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL AND WATER THOROUGHLY.

PROVIDE GRAVEL FILLED DRY WELL FOR POORLY DRAINED SOILS AS DIRECTED BY THE LANDSCAPE ARCHITECT

SET TREE PLUMB AND MAINTAIN THROUGHOUT WARRANTY PERIOD. REMOVE ALL FLAGGING AND LABELS

EACH TREE MUST BE PLANTED SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE ROOT FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER TOP OF THE ROOT BALL WITH SOIL. ROOT BALLS DELIVERED WITH THE ROOT FLARE MORE THAN 4" BELOW THE TOP OF THE BALL WILL BE REJECTED.

MULCH AS SPECIFIED, DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK, MAINTAIN WEED FREE MULCH FOR DURATION OF WARRANTY PERIOD. PLACE MULCH WITHIN 48 HOURS OF SECOND WATERING. MULCH SHALL BE INCIDENTAL TO PROJECT.



1 DETAIL - TREE PLANTING
NOT TO SCALE

LANDSCAPE DETAILS
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE
May 8, 2020

NO. REVISION: DATE

SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSL
APPROVED	
PROJ. NO.	193750674

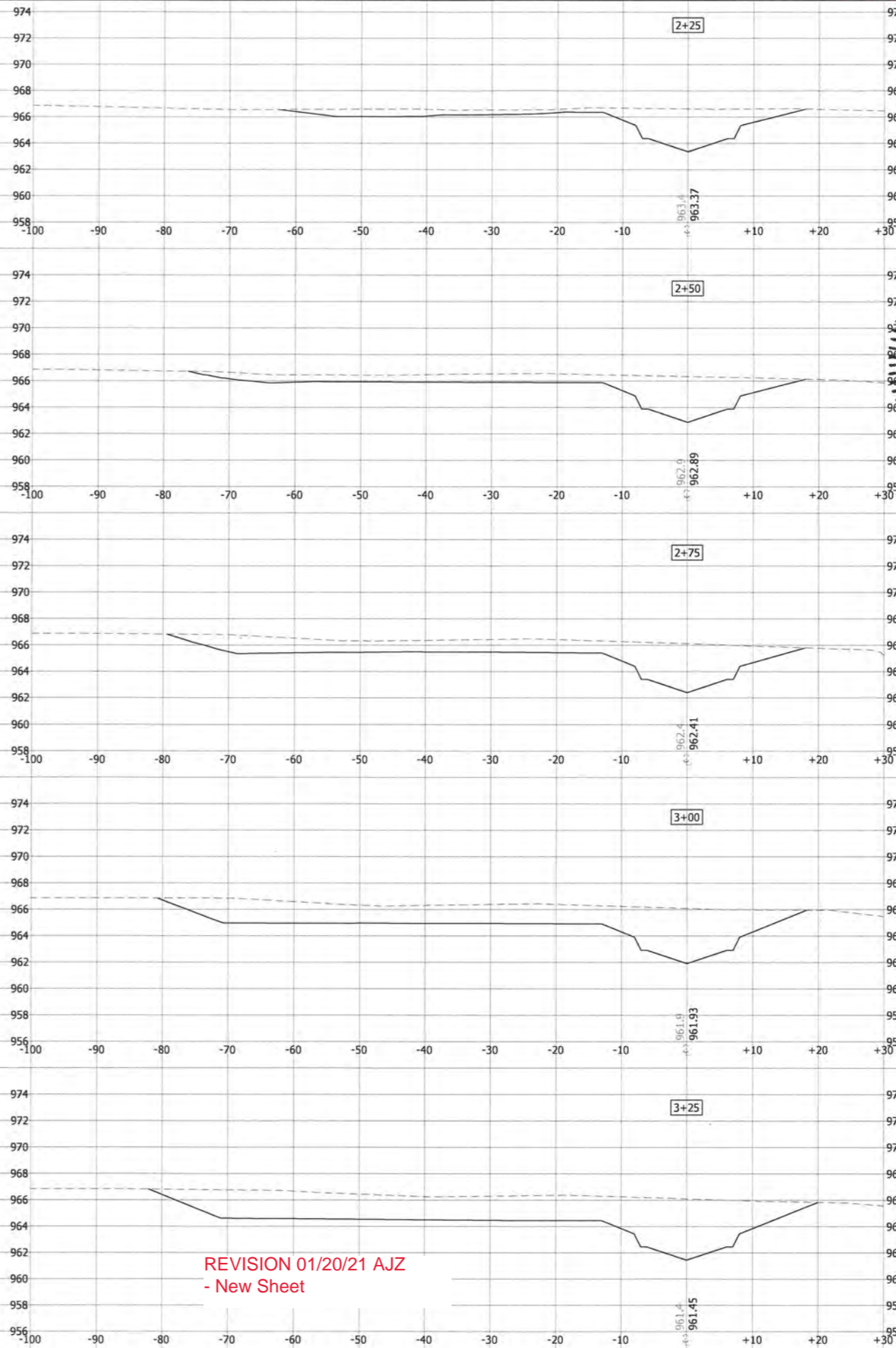
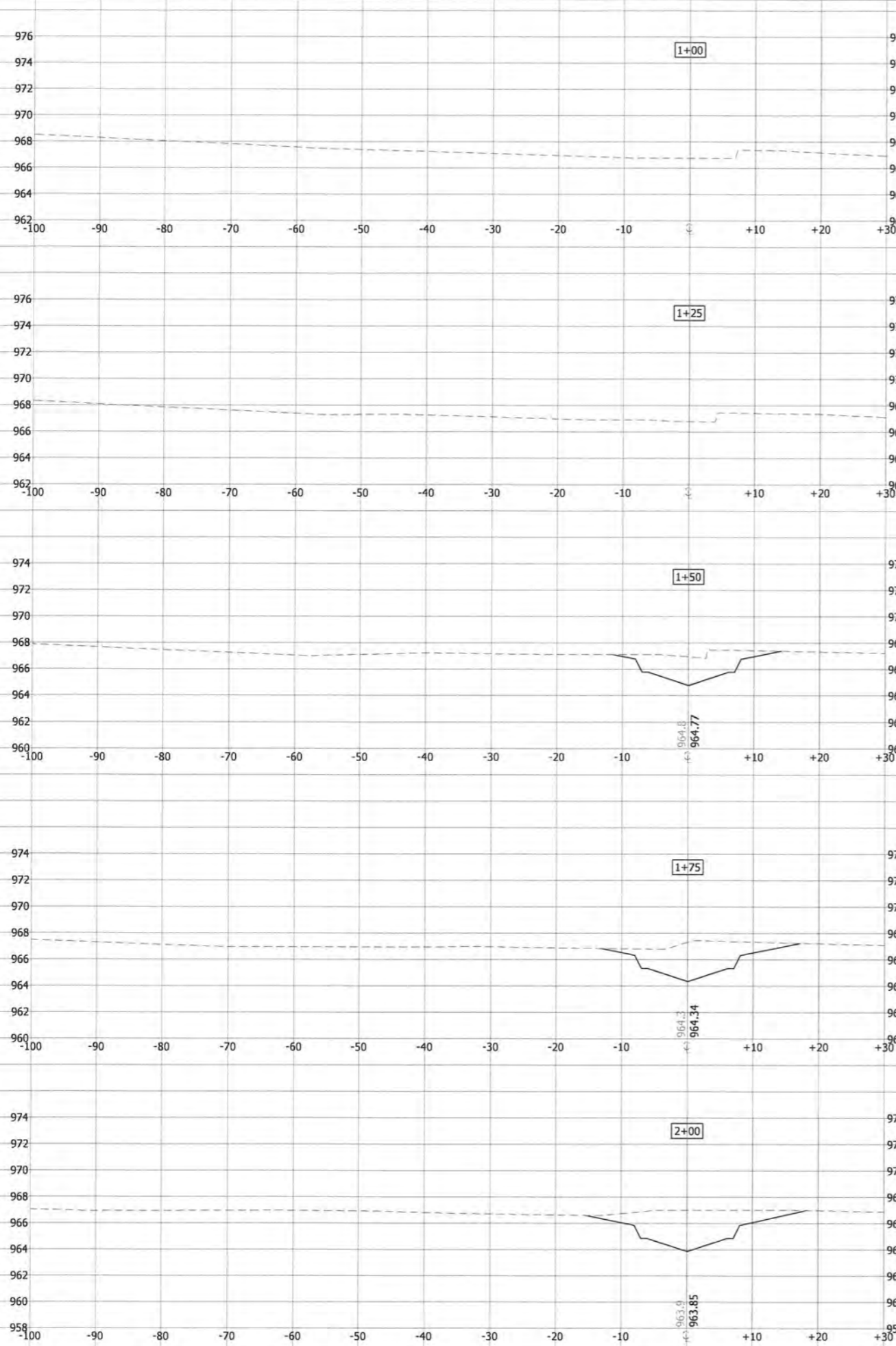
SHEET NUMBER
L5.01

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REFERRED TO STANTEC WITHOUT DELAY.

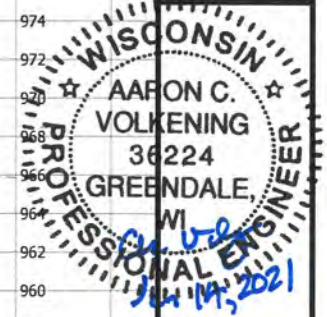
Plot Date: 05/08/2020 - 12:38pm
File Path: C:\Users\mcm\OneDrive\Documents\Projects\Greenway Channel\Drawings\193750674_L5.01.dwg
User: mcm

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS BY THE CONTRACTOR.

Ref Date: 03/08/2020, 12:54pm
 Drawn: 13726274_2330_193702074_ASKW
 Xref: 13726274_2330_193702074_ASKW



REVISION 01/20/21 AJZ
 - New Sheet

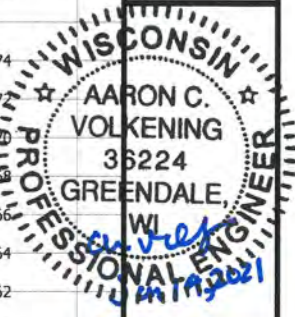
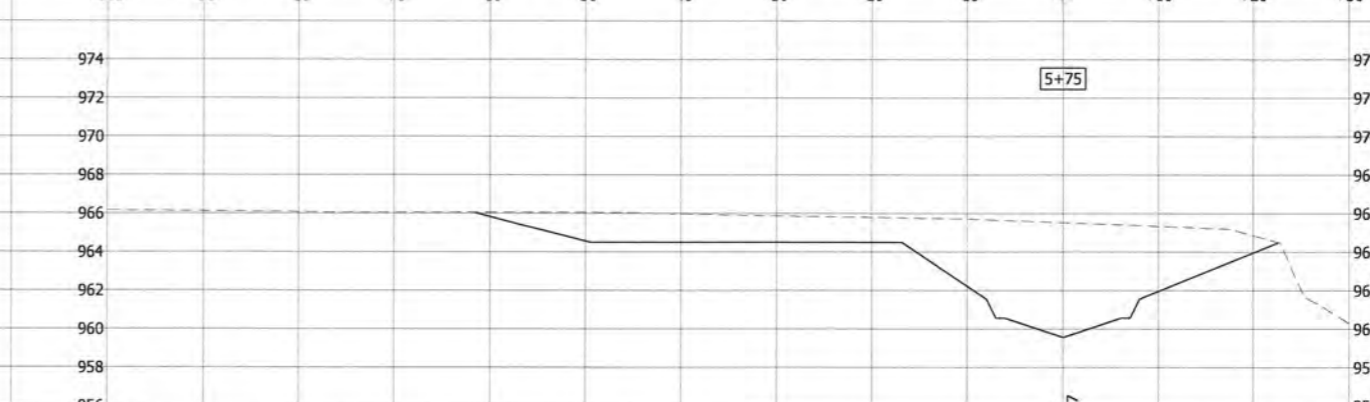
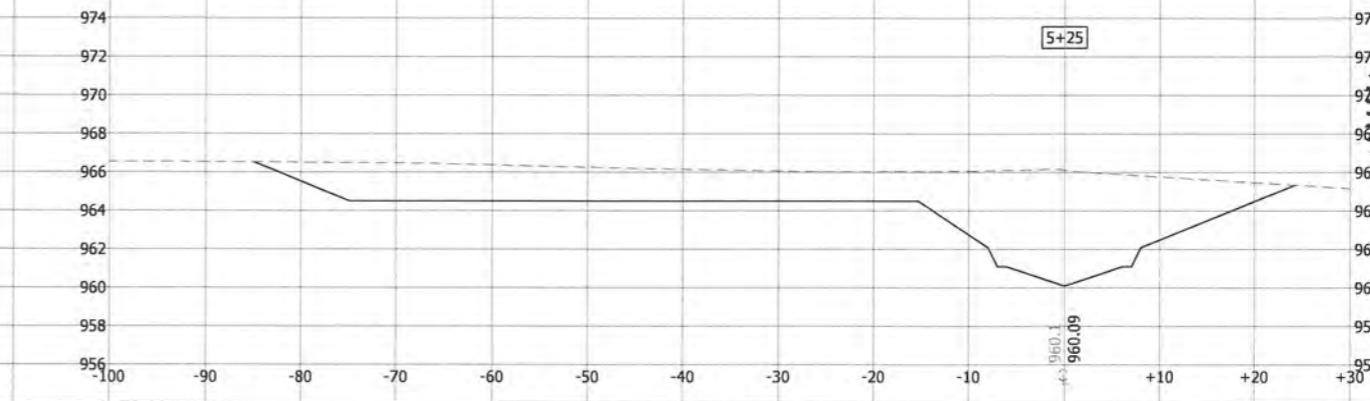
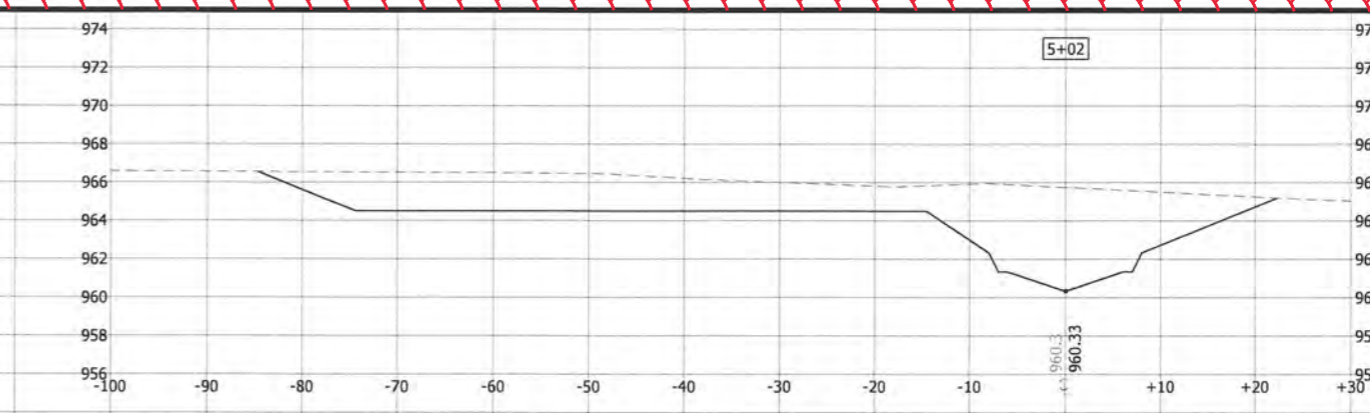
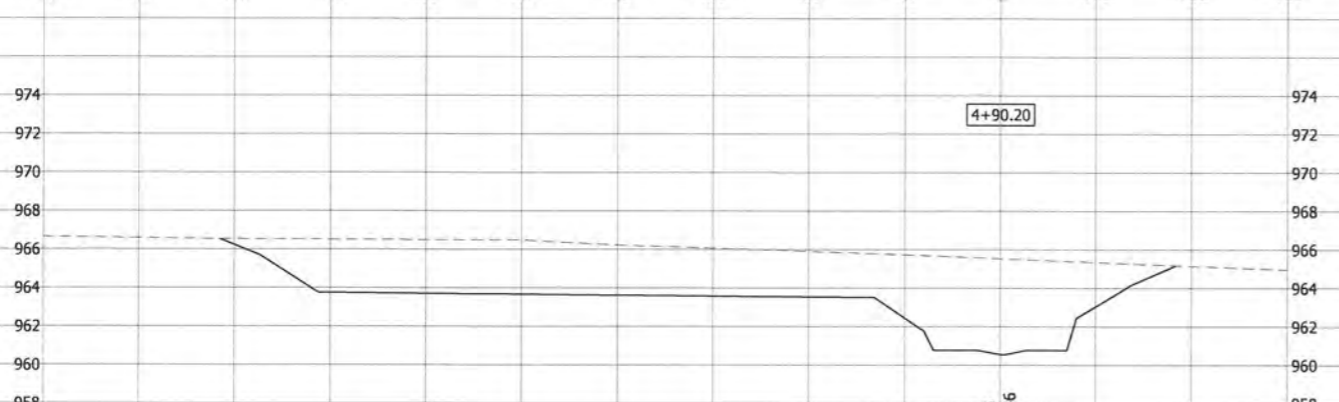
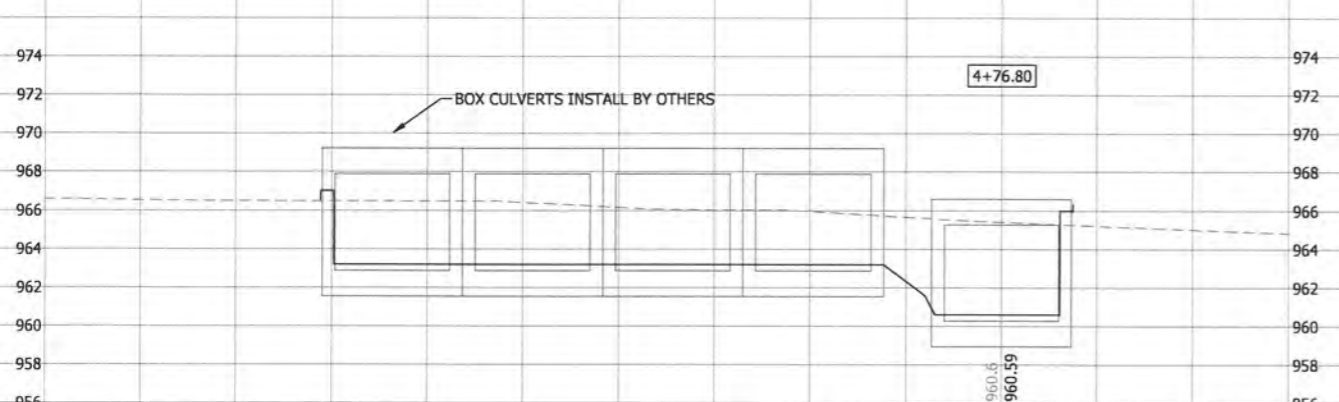
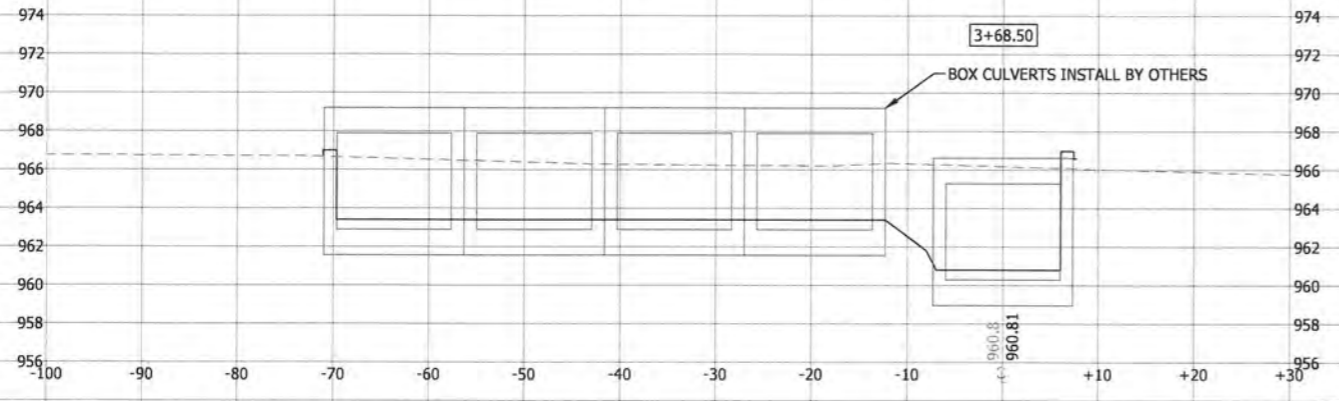
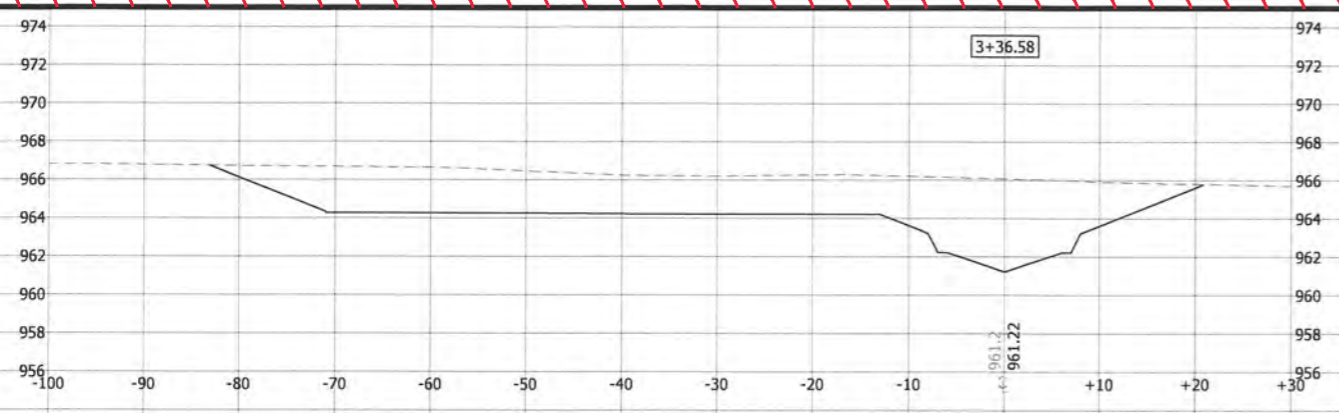


CHANNEL CROSS SECTIONS
 GREENWAY CHANNEL
 FIDUCIARY REAL ESTATE DEVELOPMENT
 CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO. REVISION	DATE
SURVEY	K & D
DRAWN	AJR
DESIGNED	BSL
CHECKED	BSL
APPROVED	AV
PROJ. NO.	193702074
SHEET NUMBER	C9.01

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND BE RESPONSIBLE FOR ANY DISCREPANCIES. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND BE RESPONSIBLE FOR ANY DISCREPANCIES.

Plot Date: 05/08/2020 12:54pm
 Plot Path: \\19370674\03_0804\19370674_01.dwg
 User: 19370674_01



CHANNEL CROSS SECTIONS
 GREENWAY CHANNEL
 FIDUCIARY REAL ESTATE DEVELOPMENT
 CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE	May 8, 2020
NO/REVISION	DATE
SURVEY	K & D
DRAWN	AJR
DESIGNED	BSL
CHECKED	BSL
APPROVED	AV
PROJ. NO.	19370674
SHEET NUMBER	C9.02

REVISION 01/20/21 AJZ
 - New Sheet

