

Madison, Wisconsin

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

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

PUBLIC IMPROVEMENT PROJECT
APPROVED

APPROVED DATE: MAY 5, 2020

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Greg Fries

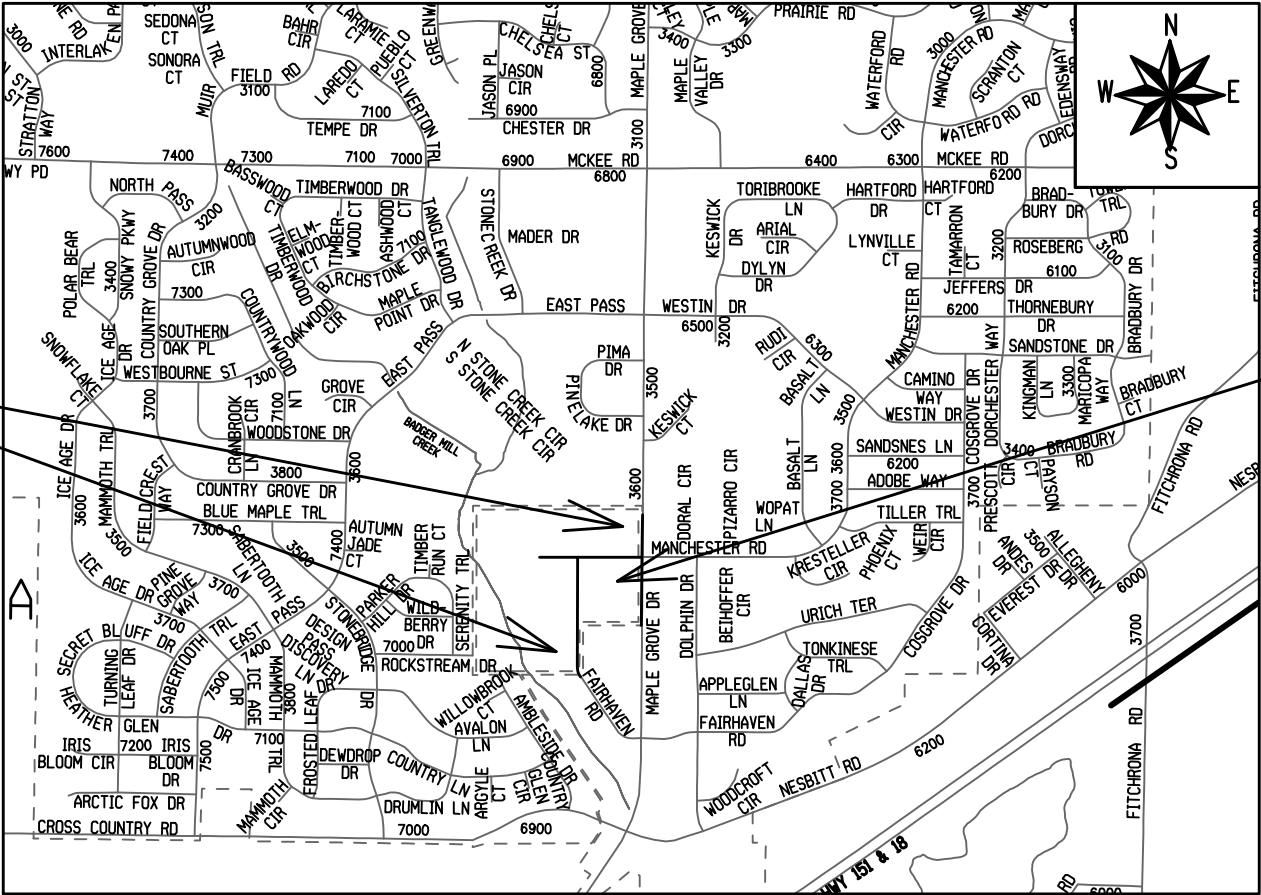
City Engineer

Date

STORMWATER PONDS
DESIGNED BY:

SEE
INDIVIDUAL
SHEETS

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: 04/20/2020 11:44 AM

ORIGINATOR: CITY_OF_MADISON

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 COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION

Plot Date: 05/08/2020 - 1:13pm
Drawing name: V:\1937\active\193706074\03_data\ais_cad\cad.dwg Sheet(s) 1937M074G001.dwg



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



SHEET INDEX	
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



TITLE SHEET

GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE
May 8, 2020

NO	REVISION	DATE
----	----------	------

SURVEY	K & L
DRAWN	AJL
DESIGNED	BS
CHECKED	BS
APPROVED	A
PROJ. NO.	19370607

SHEET NUMBER
G0.01

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 COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS PROHIBITED.

Plot Date: 05/06/2020 - 12:53pm
Drawing Name: V:\1931\active\19310602\N03_dtd\19310602\dwg\Sheet1\19310602\19310602.dwg
Revision: 19310602.dwg

GENERAL NOTES

- ### CONSTRUCTION SEQUENCE

- ### GRADING NOTES

- ### GENERAL LANDSCAPE NOTES

-

Stantec

SPECIFICATIONS

GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE
May 8, 2020

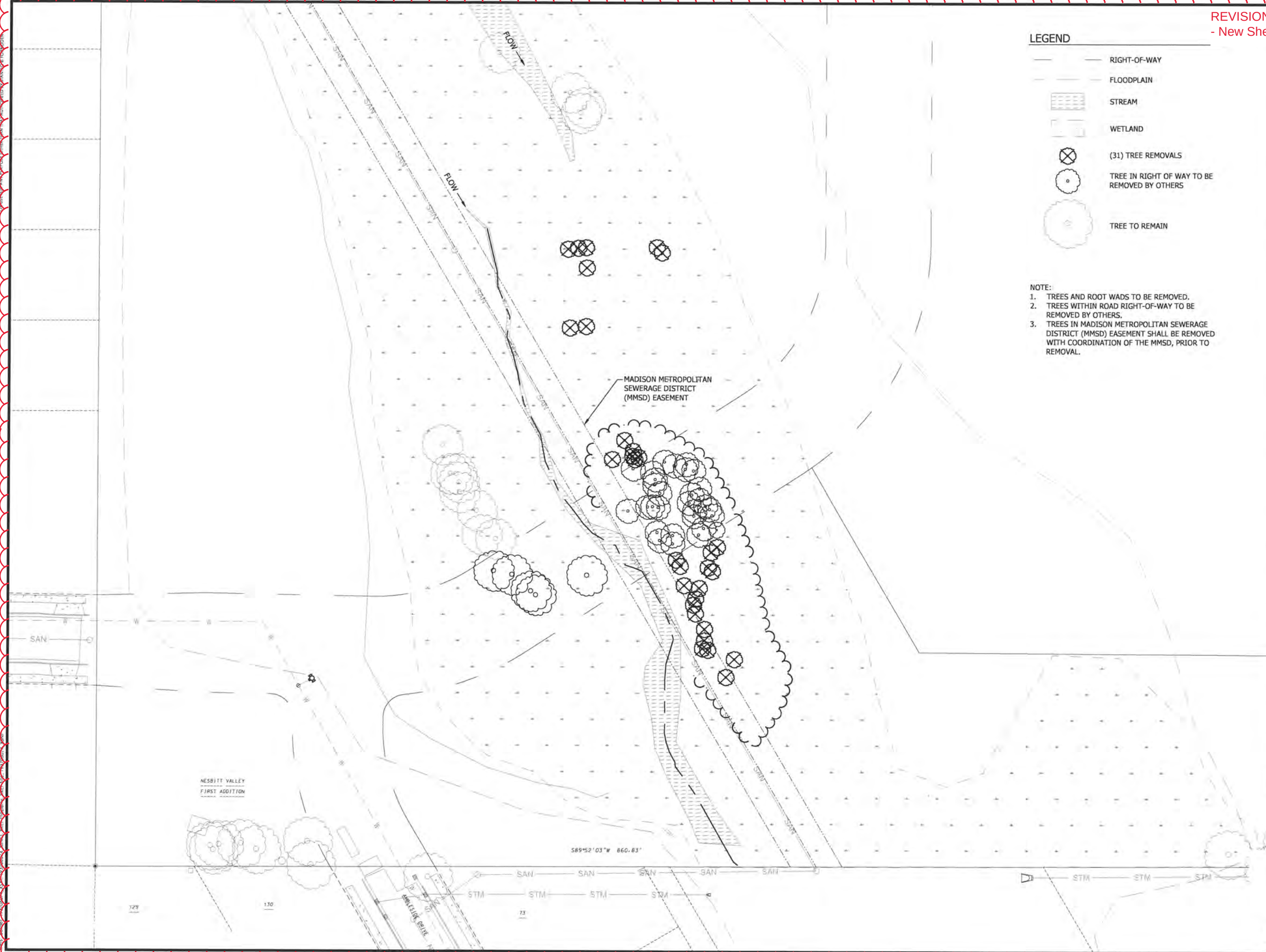
NO	REVISION	DATE
----	----------	------

SURVEY	
DRAWN	
DESIGNED	
CHECKED	BS
APPROVED	
PROJ. NO.	12370607

SHEET NUMBER
G0.02

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 COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION

Plot Date: 05/08/2020 - 12:53pm
Drawing name: V:\1937\ac live\193706074\03_data\gis_cad\cad\dwg\Sheets\193706074C000.dwg



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.



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.	1937D6074
SHEET NUMBER	
C0.01	





2075 N. Corporate Parkway, Suite 200

GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

C2.01

C2.01

Plot Date: 05/08/2020 - 12:53pm
Drawing name: V:\1937\active\193706074\03_data\gis_cad\cad\dwg\Sheet1\193706074C200.dwg

EROSION CONTROL PLAN

GENERAL NOTES

1. Contractor shall conform to all relevant federal, state, and local regulations; the conditions included in any permit; and to the conditions included in the project engineer's plans unless otherwise approved by the Wisconsin Department of Natural Resources (WDNR) and project engineer.
2. Erosion control devices shall conform to the latest edition of the WDNR technical standards and WI DOT Product Acceptability List (PAL).
3. A copy of the erosion control plan and permits shall be kept onsite and available for inspection throughout the duration of the project. Submit plan revisions or amendments to the WDNR at least 5 days prior to field implementation.
4. At no time may construction equipment or fill be placed in a waterway or wetland, except as approved by WDNR permit. The contractor shall not store any equipment or materials in any wetland, floodplain, or floodway.
5. Public and private access roads shall be kept free of tracked sediment and at a minimum cleaned at the end of each workday (not by flushing). As well, the contractor shall take minimization measures for dust control to the maximum extent practicable.
6. Bare soil areas, including soil stockpiles, left undisturbed for 7 days, shall be stabilized with: temporary or permanent seed and mulch (properly anchored by crimping, netting, or tackifier); hydromulch; tarp; or other approved method.
7. The use, storage and disposal of chemicals, oil & grease, cement and other compounds and materials used on the construction site shall be managed during the construction period to prevent their transport by runoff into waters of the state; in the event of any spill notification shall be immediately reported to the WDNR and local authorities. All construction debris and litter shall be cleaned daily.
8. If the contractor determines that dewatering will be necessary, a dewatering plan following WDNR technical standard 1061 shall be submitted by the contractor to the WDNR for approval. Notify the WDNR if dewatering is scheduled to occur in areas of soil and/or groundwater contamination, or if dewatering will occur from a high capacity well (70 GPM or greater). Provide anti-scour protection and maintain non-erosive flow during dewatering.
9. Between September 15 and October 15 stabilize with mulch, tackifier and a perennial seed mix with winter wheat, annual rye, oats or annual rye. During the non-growing season (Oct. 15 - April 15), winter stabilization shall include seeding with dormant seed mix and winter wheat and the use of mulch and polymer/tackifier (as an anchoring method) or a Class 1-type B erosion mat on all bare soil areas of the site.
 - Mulch shall consist of hay or straw free of diseased plant residue, noxious weeds, harmful chemical residues, heavy metals, hydrocarbons, and other known environmental toxicants.
 - Mulch shall cover a minimum of 80% of the soil surface and shall be 1/2 to 1 1/2 inches thick.
 - If the conditions are too cold to apply a polymer/tackifier, a mulch crimper or biodegradable netting shall be used as a temporary alternate anchoring method.
10. If snow cover prevents the installation of these items; the condition of the site, including the amount of snow cover, will be noted on every erosion and sediment control inspection report. Once the snow is 2 inches or less on a majority of the site, the above-mentioned winter stabilization methods shall be immediately employed.
11. All finish graded ditches and swales shall be planted, sodded or seeded and mulched or matted immediately after completion.
12. If any item in the erosion control plan requires modification, the contractor shall submit an erosion control plan revision to the project engineer and WDNR Stormwater Specialist to receive approval before proceeding.
13. All land disturbing activities shall be conducted in a logical sequence as to minimize the amount of bare soil exposed at any one time. Maintain existing vegetation as long as possible.
14. Any off-site sediment deposits shall be cleaned up and restored or stabilized with 24 hours, weather permitting, of any off-site sediment deposition. All sediment shall be properly disposed of and stabilized in an upland location on or off-site.
15. Make appropriate provisions for watering, as needed, during the first 8 weeks following seeding or planting areas whenever more than 7 consecutive days of dry weather occur (no rain).

EROSION CONTROL INSTALLATION AND SEQUENCING

1. The construction site is a greenway channel floodplain construction project along Badger Mill Creek, up to channel plug.
2. Tracking pad, silt fence, and inlet protection shall be installed prior to any land disturbing construction activities.
3. Once the temporary erosion control devices have been installed, topsoil stripping and stockpiling then grading and channel construction can be completed.
4. Flows shall be directed during construction to the silt fencing or interim manufactured perimeter control.
5. Following construction of the new channel all erosion matting and coir fiber logs shall be in place prior to connection to the active channel.
6. Upon completion of grading any disturbed ground shall be temporality seeded and mulch placed within 7 days.
7. Permanent stabilization shall occur after final grading, of any areas that were temporarily seeded.
8. Final landscaping of trees and rootstock to be installed as planting conditions allow for after final stabilization.
9. Removal of channel plug, by contractor, to occur immediately following culvert construction, by others.

REMOVAL OF EROSION CONTROL MEASURES

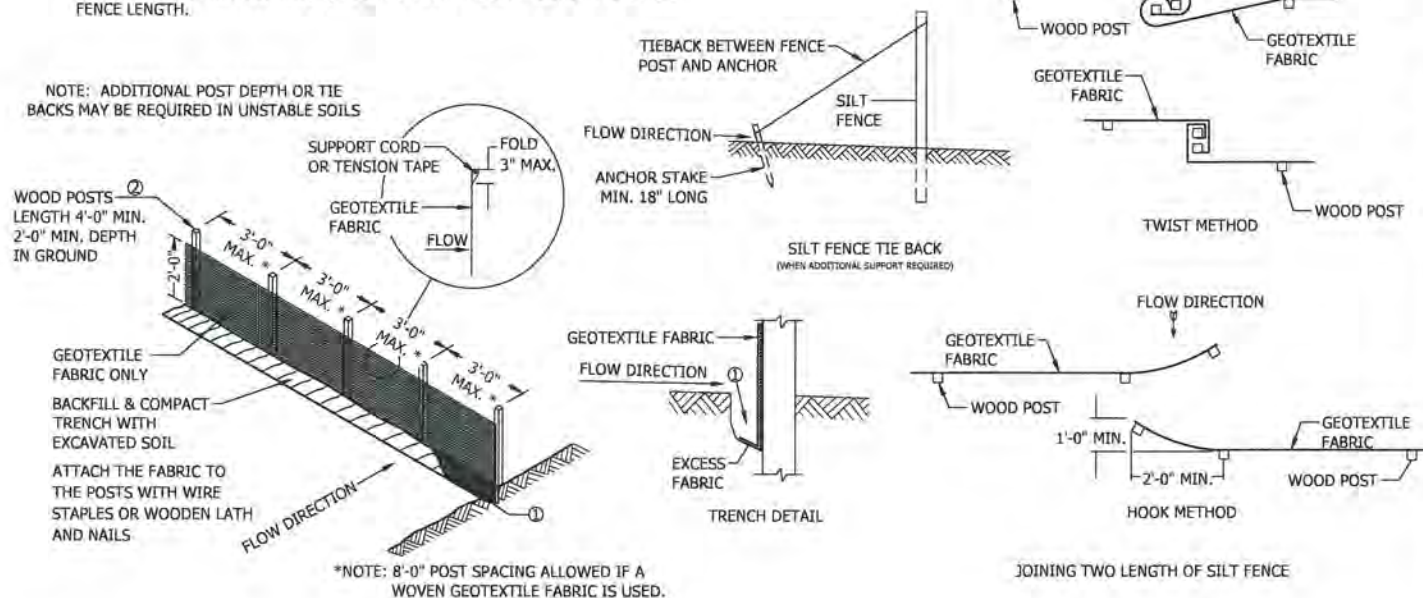
1. Inlet Protection Devices shall be removed when all land disturbing construction activities have been completed and the site has reached final stabilization. Final stabilization is defined as an established uniform perennial vegetative cover with an overall site density of at least 70%.
2. Silt Fence shall be removed when all land disturbing construction activities have been completed and the area has reached final stabilization. Any soil disturbance that has occurred because of its removal shall be immediately stabilized.
3. Tracking Pad shall be removed when all land disturbing construction activities have been completed along its associated access road. Any soil disturbance that has occurred as a result its removal shall be immediately stabilized.

EROSION CONTROL INSPECTION AND MAINTENANCE

1. Inspect all erosion control measures prior to commencing grading activities. Erosion control measures shall be inspected weekly and within 24 hours of every ½ inch or greater rain event. Maintenance shall be in accordance with the WDNR technical standards and the engineer's plans and specifications and as deemed necessary by regulatory agencies. Keep inspection reports on-site and available upon request. All maintenance and/or repairs shall be completed within 24 hours of notification by the erosion control inspector. The contractor shall maintain an erosion control logbook on site noting inspection date and times, repairs necessary, and repairs made.
2. The contractor shall install and maintain the erosion control measures in accordance with WDNR technical standards and as follows:
 - A. Tracking Pad (1057) - Maintenance shall take place by scraping or top-dressing with additional aggregate. A minimum 50-foot-long and 12-inch thick pad consisting of a minimum of 3-inch clear washed stone shall be maintained. The width of the tracking pad shall extend the full distance of the egress point.
 - B. Silt Fence (1056) - Sediment /debris/deposits shall be removed when they reach 50% of the height of the silt fence. Removed sediment shall be deposited in a suitable non-wetland or floodplain area and stabilized. Silt fence that is damaged or not performing as designed shall be repaired or replaced immediately.
 - C. Inlet Protection (1060) - Maintenance shall be conducted to keep inlets functioning without ponding water for prolong periods. Inlet fabric shall be replaced as needed.

GENERAL NOTES

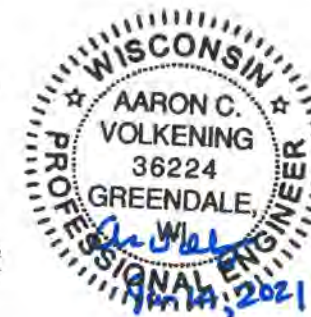
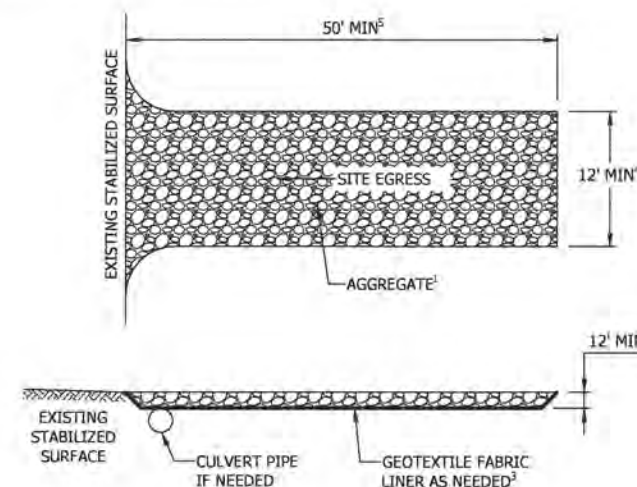
- ① TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ② WOOD POSTS SHALL BE MINIMUM SIZE OF 1½" X 1½" OF OAK OR HICKORY.
- ③ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE AT LEAST 180 DEGREES, B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.



1 SILT FENCE
NTS

NOTES

1. USE HARD, DURABLE, ANGULAR STONE OR RECYCLED CONCRETE MEETING THE GRADATION IN TABLE 1. WHERE THIS GRADATION IS NOT AVAILABLE, MEET THE GRADATION IN WISCONSIN DEPARTMENT OF TRANSPORTATION (DOT) 2018 STANDARD SPECIFICATIONS, SECTION 312, SELECT CRUSHED MATERIAL.
2. SLOPE THE STONE TRACKING PAD IN A MANNER TO DIRECT RUNOFF TO AN APPROVED TREATMENT PLACE.
3. SELECT FABRIC TYPE BASED ON SOIL CONDITIONS AND VEHICLES LOADING.
4. INSTALL TRACKING PAD ACROSS FULL WIDTH OF THE ACCESS POINT, OR RESTRICT EXISTING TRAFFIC TO A DEDICATED EGRESS LAND A LEAST 12 FEET WIDE ACROSS THE TOP OF THE PAD.
5. IF A 50' PAD LENGTH IS NOT POSSIBLE DUE TO SITE GEOMETRY, INSTALL THE MAXIMUM LENGTH PRACTICABLE AND SUPPLEMENT WITH ADDITIONAL PRACTICES AS NEEDED.



EROSION CONTROL DETAILS

GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

DATE OF ISSUANCE

May 8, 2020

NO	REVISION	DATE
----	----------	------

--	--

[illegible]

--	--

--	--

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402</
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------

--	--

SURVEY

DRAWN: _____

DESIGNED: _____

CHECKED	BS
---------	----

APPROVED: _____

PRCJ, NO. 193/0807

STREET NUMBER
6202

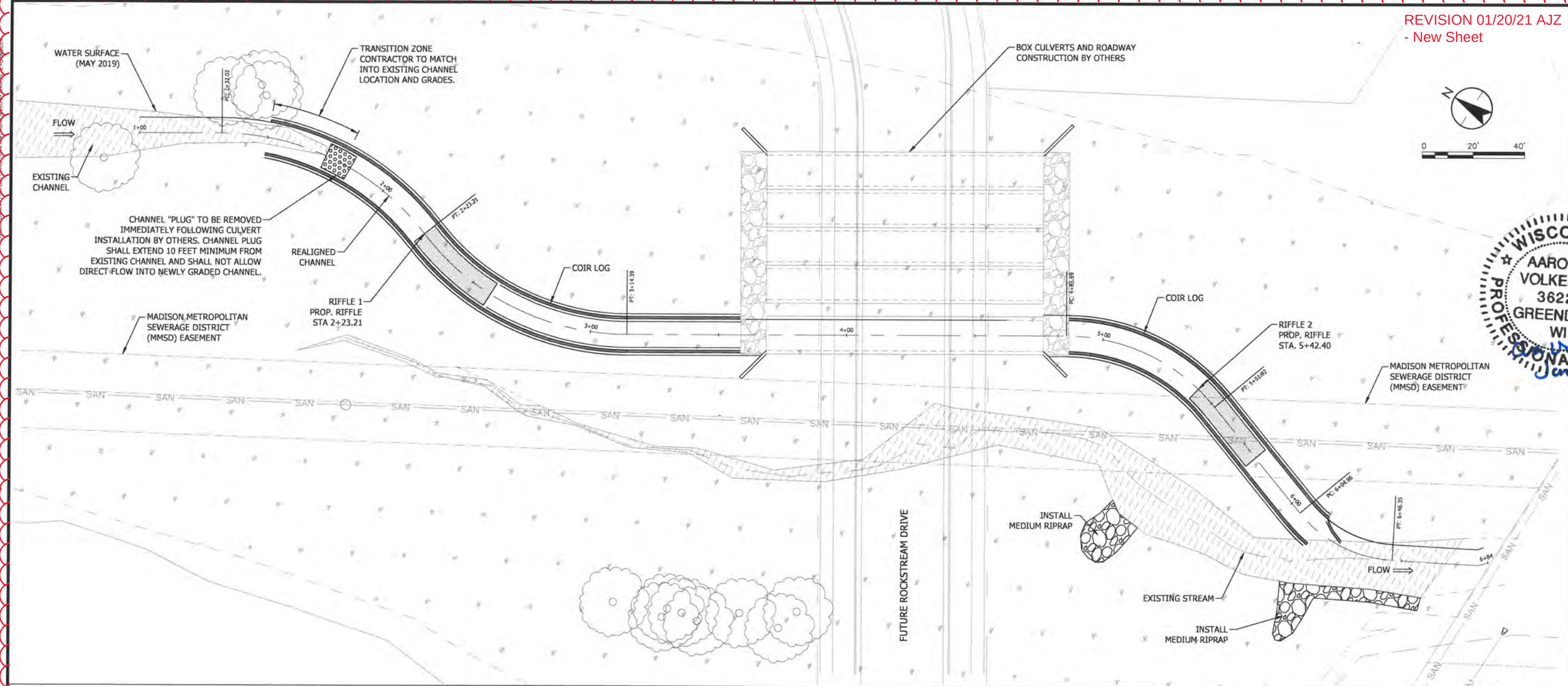
C2.02

人 人 人 人

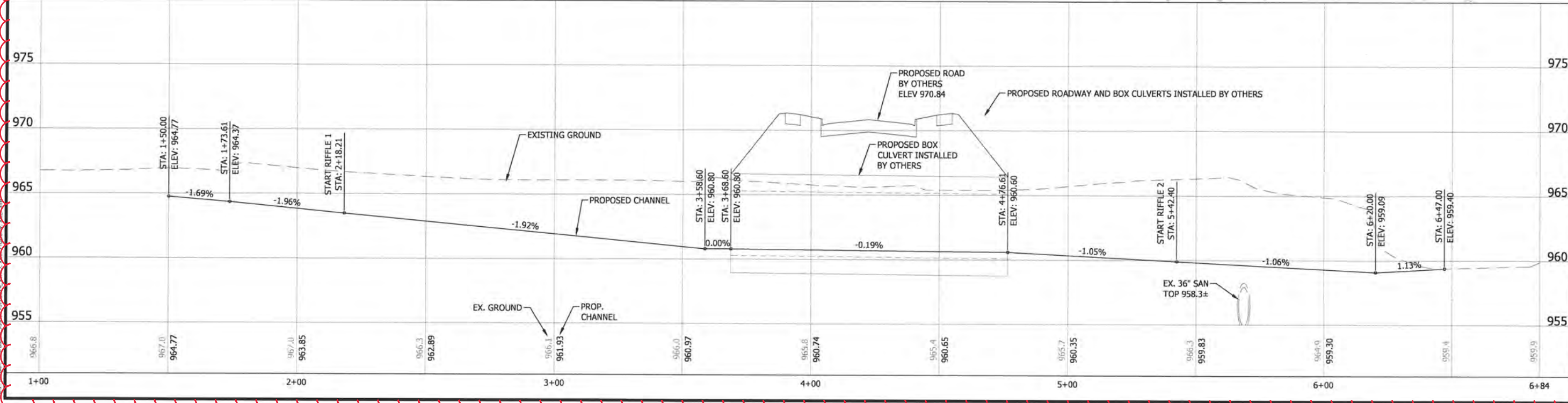
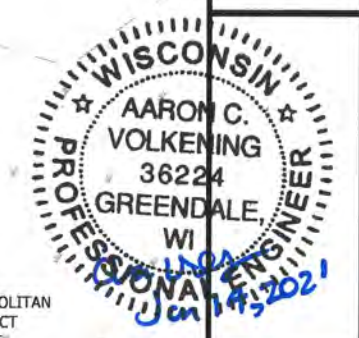
REVISION 01/20/21 AJZ
- New Sheet

2 TRACKING PAD
NTS

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. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF ANY PROPERTY OR PERSONAL INJURY OR DEATH. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF ANY PROPERTY OR PERSONAL INJURY OR DEATH. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO OR LOSS OF ANY PROPERTY OR PERSONAL INJURY OR DEATH.



REVISION 01/20/21 AJZ
- New Sheet



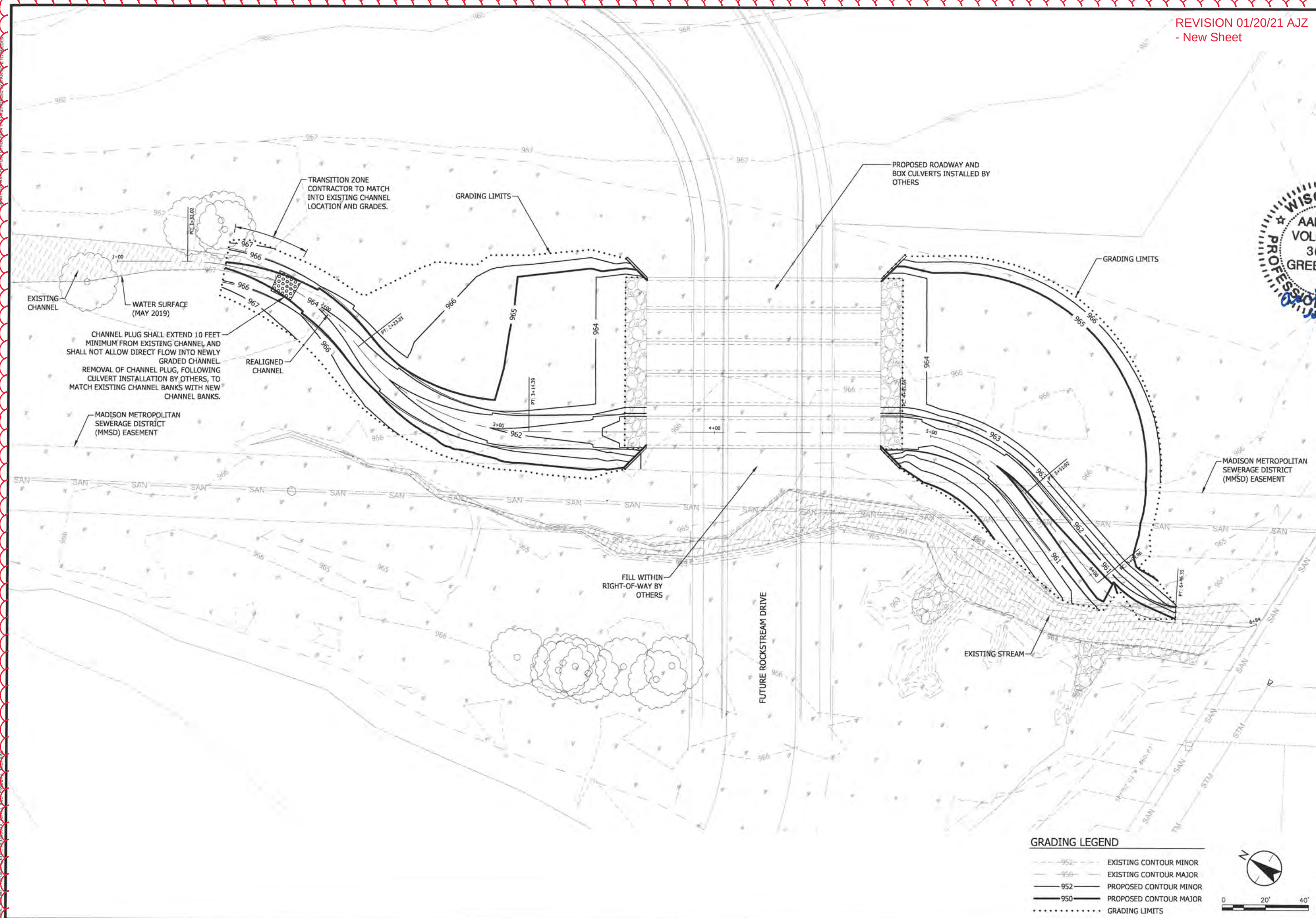
CHANNEL PLAN AND PROFILE
GREENWAY CHANNEL
FIDUCIARY REAL ESTATE DEVELOPMENT
CITY OF MADISON, WISCONSIN

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

Stantec
17075 N. Corporate Parkway, Suite 200
Mequon, WI 53092
www.stantec.com

CHANNEL GRADING PLAN

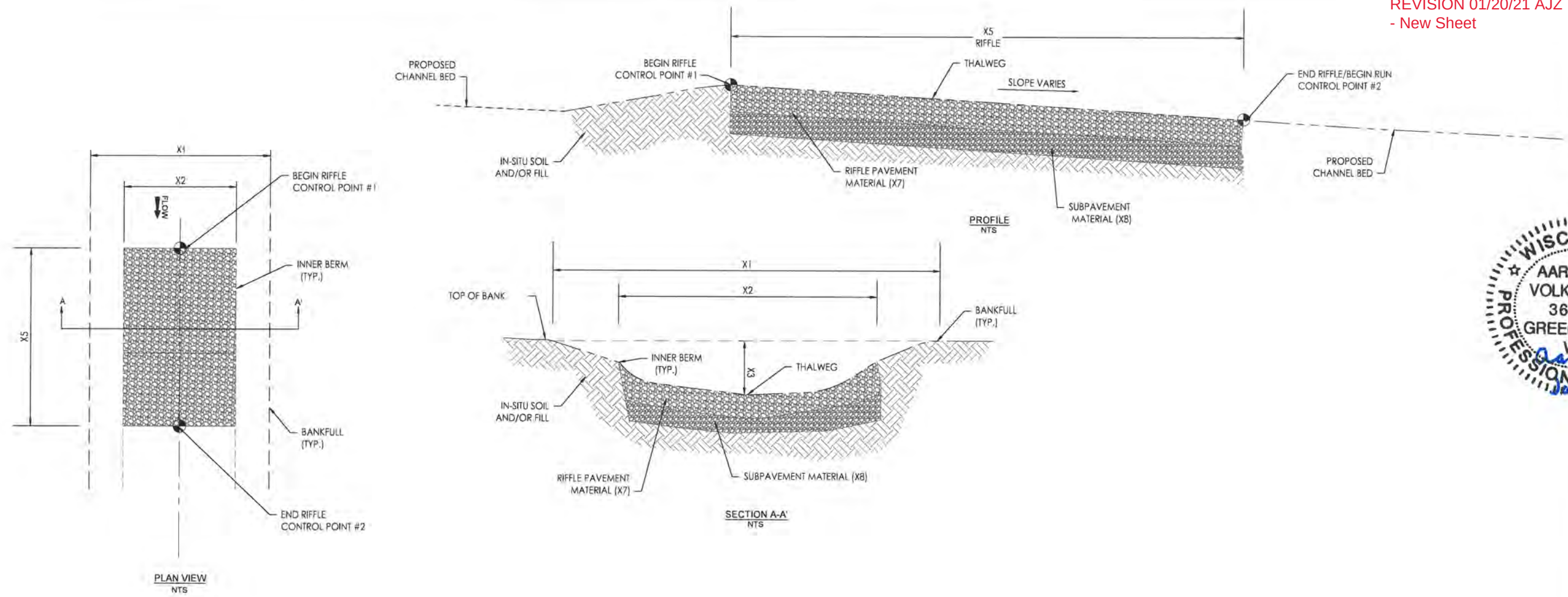
DATE OF ISSUANCE	
May 8, 2020	
NO. OF REVISION	DATE
SURVEY	K & A
DRAWN	A
DESIGNED	B
CHECKED	B
APPROVED	A
PROJ. NO.	1937060
SHEET NUMBER	
C3.02	



lot Date: 05/08/2020 - 7:53pm
drawing name: VA-1937-architectural.dwg (sheet) 1937-0607-A-03_architectural.dwg (sheet) 1937-0607-AC-350.dwg

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. DESIGN OF ANY FUTURE OTHER THAN THAT INDICATED BY THIS DOCUMENT.

Plot Date: 05/08/2020 12:25:04
Drawing: C:\Users\1937067\OneDrive\Work\1937067\Greenway Channel\1937067\Greenway Channel.dwg
User: 1937067
Title: Stream



REVISION 01/20/21 AJZ
- New Sheet



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

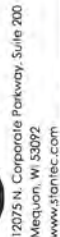
NO. REVISION DATE

SURVEY
DRAWN
DESIGNED
CHECKED BSI
APPROVED

PROJ. NO. 193706074

SHEET NUMBER
C8.01

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 COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OF ANY FORM OR MANNER FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF STANTEC IS PROHIBITED.



DATE OF ISSUANCE
May 8, 2020

NO	REVISION	DATE
----	----------	------

[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1	100
---	-----

--	--

--	--

SURVEY

DRAWN

DESIGNED _____

CHECKED	BSL
---------	-----

APPROVED

PRINTED AND BOUND BY

C802

CO.02

Plot Date: 05/08/2020 - 12:53pm
Drawing name: V:\193\ac\live\193\06074\03_data\gil_cad\cad.dwg\Sheet\193\06074C800.dwg

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OF DIMENSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.

REVISION 01/20/21 AJZ
- New Sheet



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

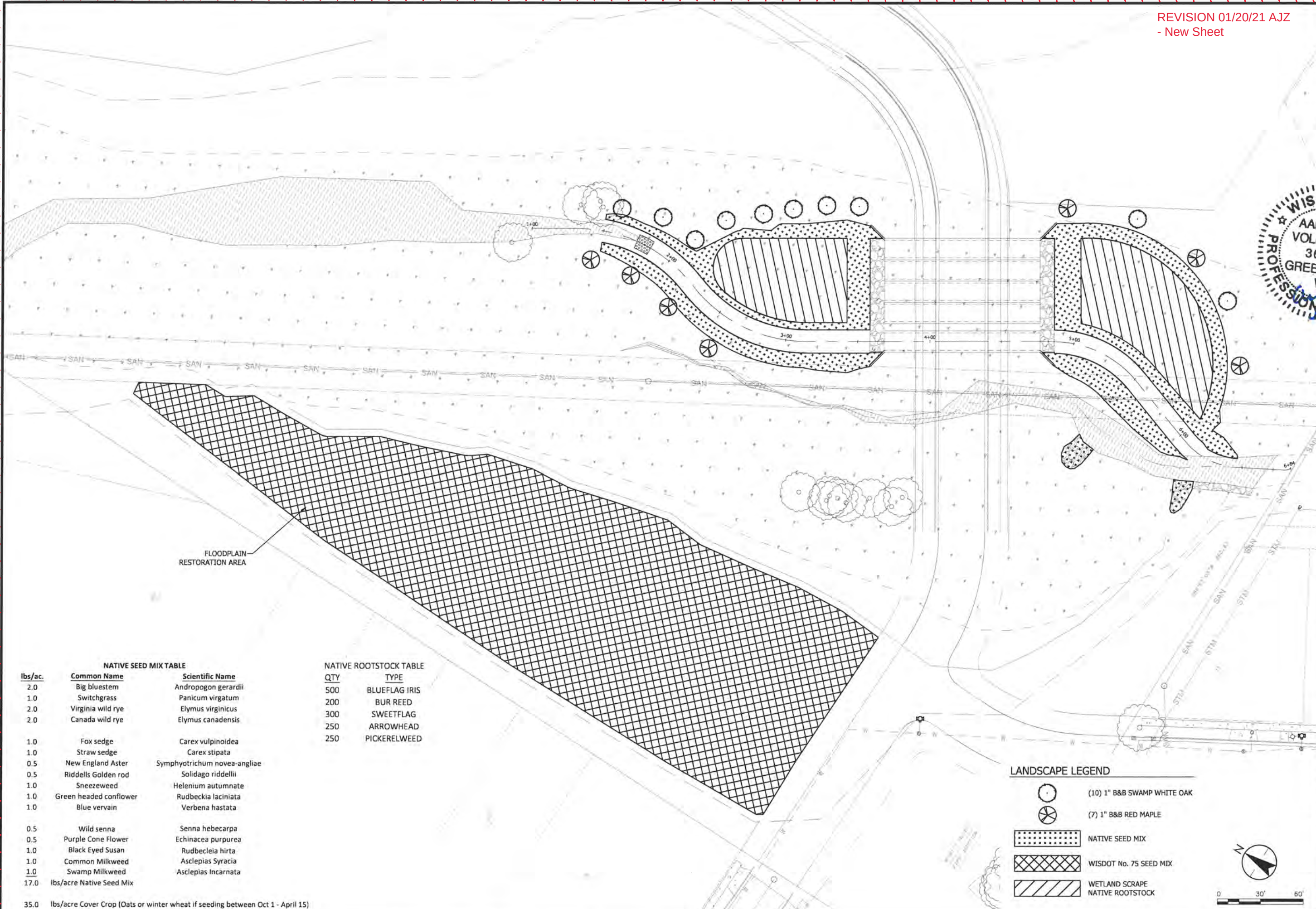
DATE OF ISSUANCE
May 13, 2020

NO REVISION DATE

SURVEY
DRAWN
DESIGNED
CHECKED BSL
APPROVED

PROJ. NO. 193706074

SHEET NUMBER
L1.01



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	Symphyotrichum novea-angliae
0.5	Riddells Golden rod	Solidago riddellii
1.0	Sneezeweed	Helenium autumnale
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
17.0	lbs/acre Native Seed Mix	

NATIVE ROOTSTOCK TABLE

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

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



0 30' 60'

Plot Date: 05/13/2020 - 4:07pm
Drawing Name: V:\193706074\193706074_L1.dwg
User: ajz
Title: Landscape Plan
Scale: 1" = 30'

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. STANTEC SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS BY THE CONTRACTOR.

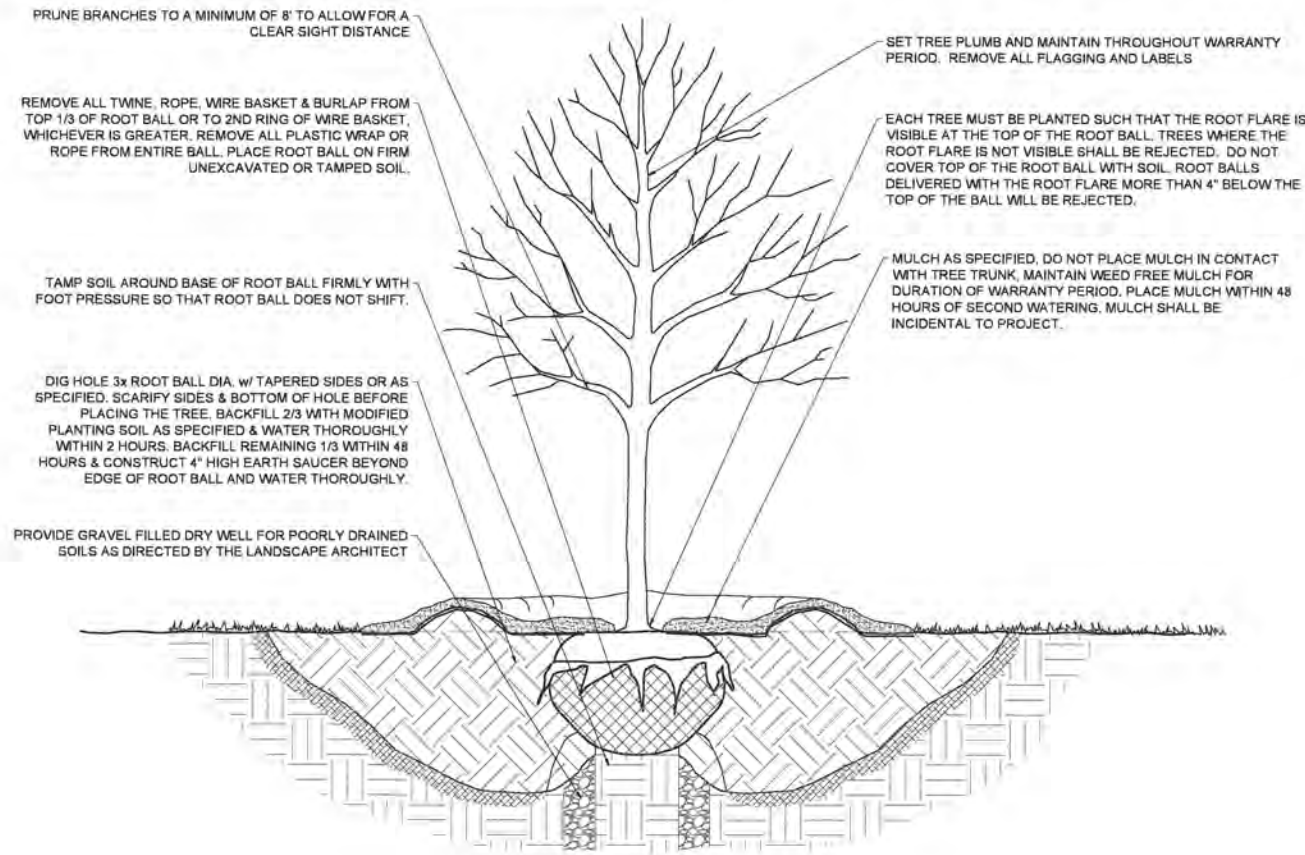
Plot Date: 05/08/2020 - 12:35pm
Drawing Name: L5.01 Tree Planting Details
Drawing Path: \\stntec\projects\193706074\193706074_L5.01.dwg
User: jay@stntec.com

REVISION 01/20/21 AJZ
- New Sheet



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

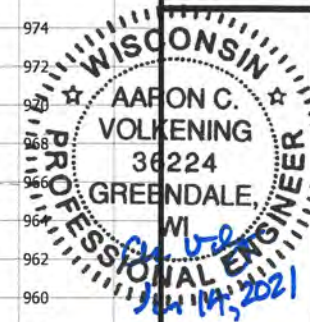
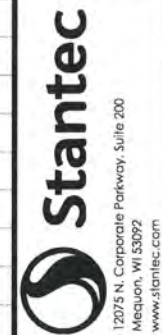
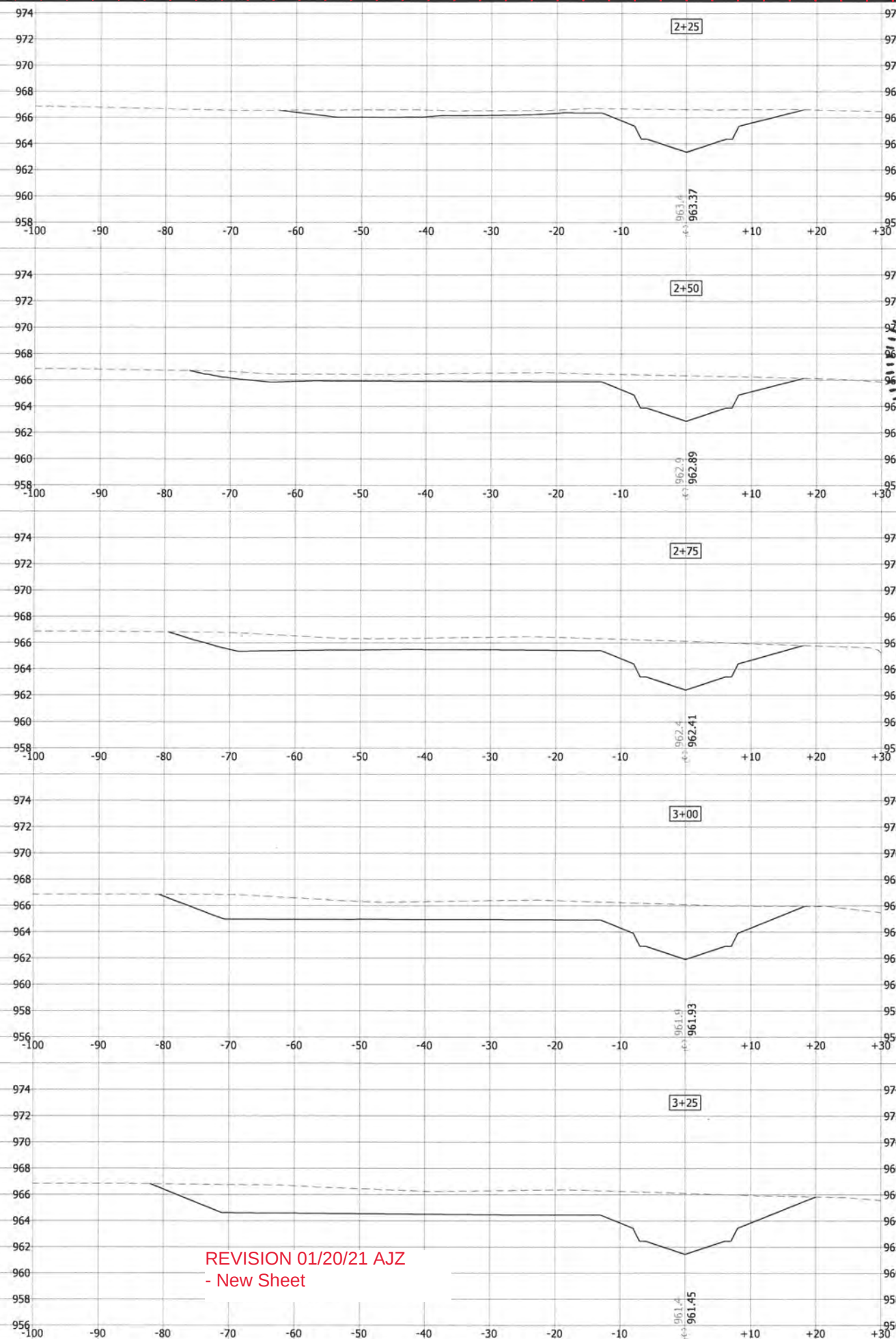
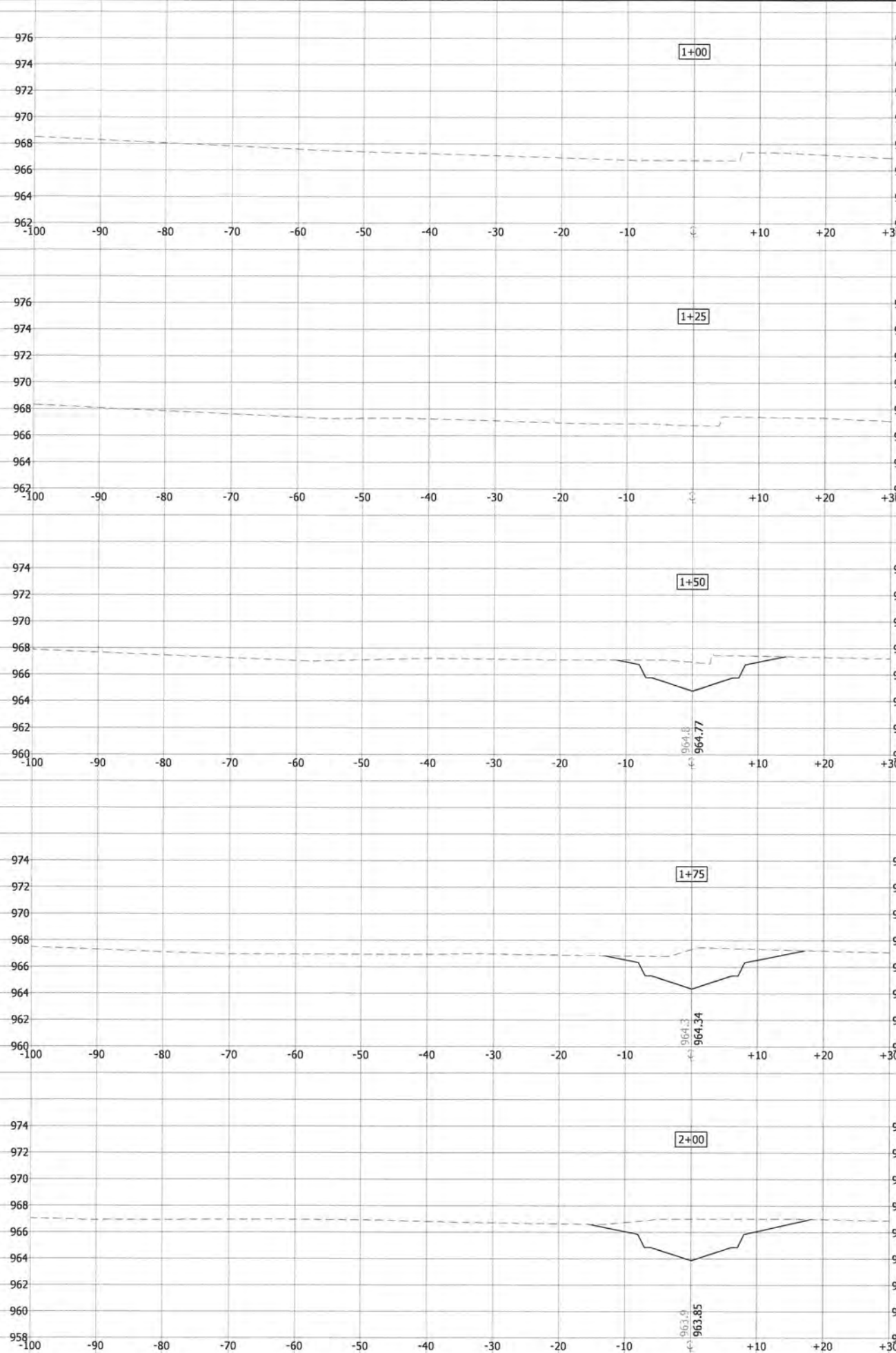
- NOTES:
1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES, SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
 2. STAKE TREES ONLY AS 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.



1 DETAIL - TREE PLANTING
NOT TO SCALE

DATE OF ISSUANCE	
May 8, 2020	
NO. REVISION	DATE
SURVEY	
DRAWN	
DESIGNED	
CHECKED	BSI
APPROVED	
PROJ. NO.	193706074
SHEET NUMBER	L5.01

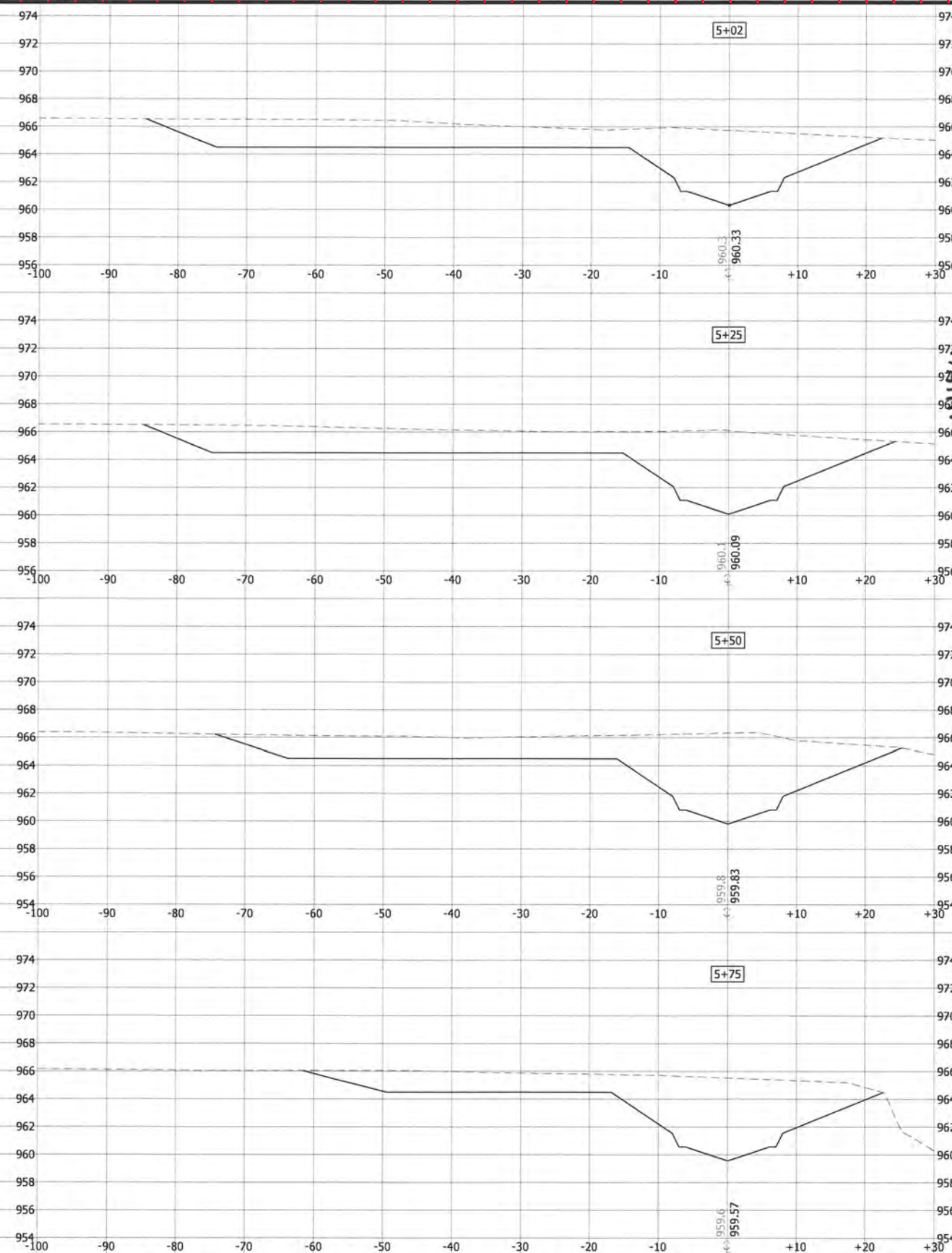
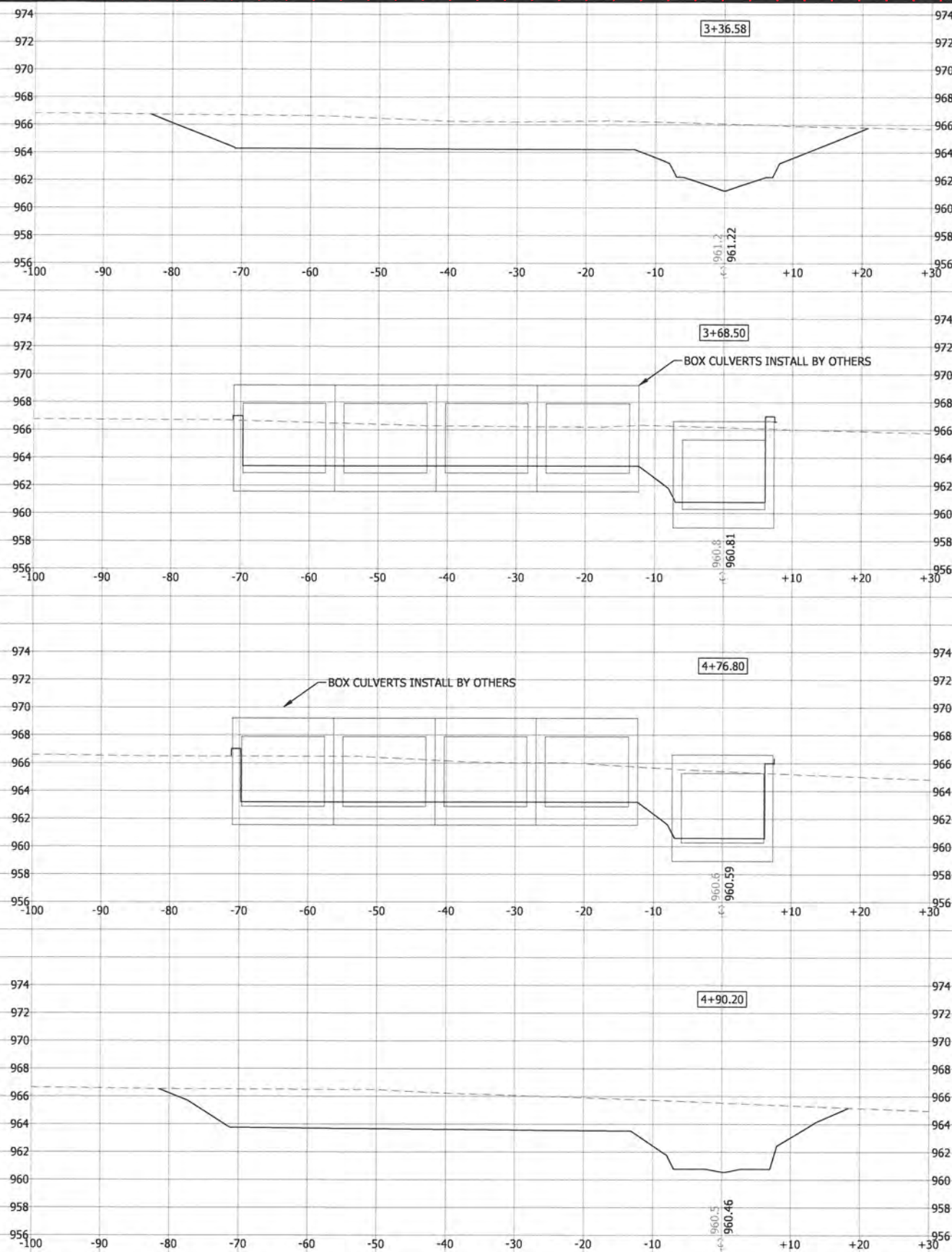
Plot Date: 05/08/2020 - 12:54pm



CHANNEL CROSS SECTIONS

DATE OF ISSUANCE	
May 8, 2020	
NO.	REVISION DATE
SURVEY	K & D
DRAWN	AJR
DESIGNED	BSL
CHECKED	BSL
APPROVED	AV
PRJCT. NO.	193706074
SHEET NUMBER	
C9.01	

Print Date: 05/08/2020 - 12:54pm



REVISION 01/20/21 AJZ
- New Sheet

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

CHANNEL CROSS SECTIONS

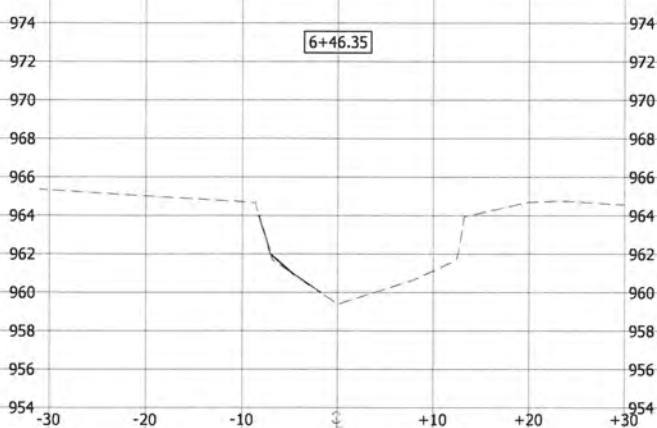
DATE OF ISSUANCE
May 8, 2020

NO	REVISION	DATE
----	----------	------

SURVEY	K & D
DRAWN	AJR
DESIGNED	BSL
CHECKED	BSL
APPROVED	AV
PROJ. NO.	193706074

SHEET NUMBER
C9.02

Plot Date: 05/08/2020 - 12:54pm
Drawing name: V:\193\active\193706074\03_data\gis_cad\cad.dwg\193706074_XS1Z.dwg
Xrefs: 193706074.XSNO, 193706074.XSNE, Border



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	
C9.03	