TKDA

444 Cedar Street, Suite 1500
Saint Paul, MN 55101
651.292.4400
tkda.com

September 3, 2020

Honorable Chairman and Town Board
White Bear Township, Minnesota

Re: Deer Meadow Park Trail, Pond, and Swale Bids and Construction Observation
White Bear Township, Minnesota
TKDA Project No. 17727.004

Dear Board Members:

In anticipation of the Stable Property development, The Township is taking the opportunity to provide trail connection between Deer Meadow Park and Stable Property development. Ultimately the trails through Deer Meadow Park and the Stable Property would link to the trail off Bloom Road to the north. The existing storm water pond within Deer Meadow Park and the swale connecting to it also require removal of accumulated sediment to restore its functionality.

The Town Board authorized preparation of plans and specifications and for the Deer Meadow Park Trail, Pond, and Swale Improvements and to perform the Rice Creek Watershed District permitting process. The Town Board directed the project to be bid with an option for either a 10' trail (Alternate 1) or 8' trail (Alternate 2). A copy of the tabulation of bids are attached.

Bids (attached) were received by 10:00am on September 2, 2020 with the following results:

Arnt Construction Co.	
Base Bid	$102,850.00
Alternate #1	$ 70,942.40
Alternate #2	$ 65,784.20
Total Base Bid and Alternate #1	$173,792.40
Total Base Bid and Alternate #2	$168,634.20
Meyer Contracting, Inc.	
Base Bid	$122,051.45
Alternate #1	$ 86,174.95
Alternate #2	$ 82,675.15
Total Base Bid and Alternate #1	$208,226.40
Total Base Bid and Alternate #2	$204,726.60
North Valley, Inc.	
Base Bid	$122,707.88
Alternate #1	$ 99,558.59
Alternate #2	$ 97,949.69
Total Base Bid and Alternate #1	$222,264.47
Total Base Bid and Alternate #2	$220,657.57

Jacon	
Base Bid	$133,981.00
Alternate #1	$ 93,355.50
Alternate #2	$ 87,308.00
Total Base Bid and Alternate #1	$227,336.50
Total Base Bid and Alternate #2	$221,289.00
Sunram Construction, Inc.	
Base Bid	$125,440.00
Alternate #1	$101,995.00
Alternate #2	$ 97,170.00
Total Base Bid and Alternate #1	$227,435.00
Total Base Bid and Alternate #2	$222,610.00
Standard Contracting, Inc.	
Base Bid	$128,390.25
Alternate #1	$101,725.00
Alternate #2	$ 93,587.50
Total Base Bid and Alternate #1	$230,115.25
Total Base Bid and Alternate #2	$221,977.75
T.A. Schifsky & Sons, Inc.	
Base Bid	$155,702.35
Alternate #1	$ 87,856.70
Alternate #2	$ 77,042.55
Total Base Bid and Alternate #1	$243,559.05
Total Base Bid and Alernate #2	$232,744.90
Veit & Company, Inc.	
Base Bid	$191,165.96
Alternate #1	$144,490.70
Alternate #2	$136,913.20
Total Base Bid and Alternate #1	$335,656.66
Total Base Bid and Alternate #2	$328,079.16
Dresel Contracting, Inc.	
Base Bid	$241,372.40
Alternate #1	$113,861.70
Alternate #2	$108,278.50
Total Base Bid and Alternate #1	$355,234.10
Total Base Bid and Alternate #2	$349,650.90
Engineer's Estimate	
Base Bid	$199,040.00
Alternate #1	$102,735.00
Alternate #2	$ 96,675.00
Total Base Bid and Alternate #1	$301,775.00
Total Base Bid and Alternate #2	$295,715.00

We recommend awarding a contract to Arnt Construction Co. for the project. The Town Board can award it for either the Base bid and Alternate #1 (10-foot trial width) in the total amount of $173,792.40 or the Base bid and Alternate #2 (8-foot trail width) in the amount of $168,634.20. TKDA will perform the construction observation process and the RCWD coordination activities for an amount not to

exceed $36,750.00. This amount assumes the Contractor will proceed in a timely fashion to complete construction in a period of 5 weeks requiring 140 hours of TKDA staff time, and that 42 hours of TKDA staff time will also be needed to coordinate with RCWD and residents.

Project Benefits:

1. Continuation of the overall trail system
2. Pond and Ditch Maintenance

The overall project funding will be from the Parks Fund and the Storm Water Utility Fund.

Please let me know if you have additional questions.

Sincerely,

Jim Studenski, PE
Town Engineer

Attachments
JES/lpp/ksb/ces

TABULATION OF BIDS

DEER MEADOW TRAIL, POND, AND SWALE IMPROVEMENTS
WHITE BEAR TOWNSHIP, MINNESOTA
TKDA PROJECT NO. 17727.004

TKDA

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	SUNRAM CONSTRUCTION, INC. UNIT PRICE	SUNRAM CONSTRUCTION, INC. TOTAL AMOUNT	STANDARD CONTRACTING, INC. UNIT PRICE	STANDARD CONTRACTING, INC. TOTAL AMOUNT	T.A. SCHIFSKY & SONS, INC. UNIT PRICE	T.A. SCHIFSKY & SONS, INC. TOTAL AMOUNT	VEIT & COMPANY, INC. UNIT PRICE	VEIT & COMPANY, INC. TOTAL AMOUNT	DRESEL CONTRACTING, INC. UNIT PRICE	DRESEL CONTRACTING, INC. TOTAL AMOUNT
1	MOBILIZATION	0.67	LS	$ 10,800.00	$ 7,236.00	$ 10,500.00	$ 7,035.00	$ 14,000.00	$ 9,380.00	$ 74,090.00	$ 49,640.30	$ 60,126.49	$ 40,284.75
2	CLEAR	60	EA	$ 315.00	$ 18,900.00	$ 185.00	$ 11,100.00	$ 181.65	$ 10,899.00	$ 452.00	$ 27,120.00	$ 390.00	$ 23,400.00
3	GRUB	60	EA	$ 105.00	$ 6,300.00	$ 125.00	$ 7,500.00	$ 121.80	$ 7,308.00	$ 260.00	$ 15,600.00	$ 390.00	$ 23,400.00
4	INLET PROTECTION	5	EA	$ 150.00	$ 750.00	$ 180.00	$ 900.00	$ 105.00	$ 525.00	$ 278.00	$ 1,390.00	$ 186.00	$ 930.00
5	SILT FENCE TYPE MS	450	LF	$ 2.50	$ 1,125.00	$ 4.40	$ 1,980.00	$ 2.99	$ 1,345.50	$ 3.10	$ 1,395.00	$ 3.00	$ 1,350.00
6	DEWATERING	1	LS	$ 4,100.00	$ 4,100.00	$ 7,400.00	$ 7,400.00	$ 27,825.00	$ 27,825.00	$ 6,350.00	$ 6,350.00	$ 15,300.00	$ 15,300.00
7	POND EXCAVATION	1,300	CY	$ 28.25	$ 36,725.00	$ 31.25	$ 40,625.00	$ 38.00	$ 49,400.00	$ 27.25	$ 35,425.00	$ 55.75	$ 72,475.00
8	COMMON EXCAVATION (CV)	425	CY	$ 38.00	$ 16,150.00	$ 32.75	$ 13,918.75	$ 28.00	$ 11,900.00	$ 27.50	$ 11,687.50	$ 43.48	$ 18,479.00
9	CLEAN, REMOVE & REPLACE DETERIORATED CONCRETE AROUND STORM STRUCTURE	1	EA	$ 1,800.00	$ 1,800.00	$ 3,200.00	$ 3,200.00	$ 1,575.00	$ 1,575.00	$ 2,450.00	$ 2,450.00	$ 3,960.00	$ 3,960.00
10	PROTECT AND RE-ESTABLISH SUMP PIPE	5	EA	$ 900.00	$ 4,500.00	$ 230.00	$ 1,150.00	$ 210.00	$ 1,050.00	$ 495.00	$ 2,475.00	$ 1,320.00	$ 6,600.00
11	CLEAN STORM PIPE	200	LF	$ 13.00	$ 2,600.00	$ 29.50	$ 5,900.00	$ 26.25	$ 5,250.00	$ 13.25	$ 2,650.00	$ 22.50	$ 4,500.00
12	REMOVE AND REPLACE WEIR	1	EA	$ 4,100.00	$ 4,100.00	$ 3,500.00	$ 3,500.00	$ 5,250.00	$ 5,250.00	$ 9,050.00	$ 9,050.00	$ 6,360.00	$ 6,360.00
13	EROSION CONTROL BLANKET	1,500	SY	$ 2.50	$ 3,750.00	$ 2.60	$ 3,900.00	$ 3.41	$ 5,115.00	$ 2.30	$ 3,450.00	$ 1.92	$ 2,880.00
14	SEEDING	0.99	AC	$ 1,600.00	$ 1,584.00	$ 1,050.00	$ 1,039.50	$ 1,575.00	$ 1,559.25	$ 684.00	$ 677.16	$ 1,440.00	$ 1,425.60
15	SEED MIXTURE 25-151	120	LB	$ 8.00	$ 960.00	$ 2.50	$ 300.00	$ 6.30	$ 756.00	$ 8.00	$ 960.00	$ 3.30	$ 396.00
16	HYDRAULIC STABILIZED FIBER MATRIX	1,220	LB	$ 3.00	$ 3,660.00	$ 3.20	$ 3,904.00	$ 2.63	$ 3,208.60	$ 2.30	$ 2,806.00	$ 2.40	$ 2,928.00
17	SODDING TYPE SALT TOLERANT	360	SY	$ 12.00	$ 4,320.00	$ 9.55	$ 3,438.00	$ 12.60	$ 4,536.00	$ 22.75	$ 8,190.00	$ 9.60	$ 3,456.00
18	RIP RAP CL 3	55	CY	$ 96.00	$ 5,280.00	$ 120.00	$ 6,600.00	$ 126.00	$ 6,930.00	$ 110.00	$ 6,050.00	$ 160.91	$ 8,850.05
19	ROCK CONSTRUCTION ENTRANCE	2	EA	$ 800.00	$ 1,600.00	$ 2,500.00	$ 5,000.00	$ 945.00	$ 1,890.00	$ 1,900.00	$ 3,800.00	$ 2,199.00	$ 4,398.00
BASE BID - TOTAL					**$ 125,440.00**		**$ 128,390.25**		**$ 155,702.35**		**$ 191,165.96**		**$ 241,372.40**

ALTERNATE 1 - 10' WALKING TRAIL

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0.33	LS	$ 10,800.00	$ 3,564.00	$ 18,500.00	$ 6,105.00	$ 14,000.00	$ 4,620.00	$ 120,860.00	$ 39,883.80	$ 38,250.00	$ 12,622.50
2	CLEAR	21	EA	$ 315.00	$ 6,615.00	$ 185.00	$ 3,885.00	$ 181.65	$ 3,814.65	$ 452.00	$ 9,492.00	$ 390.00	$ 8,190.00
3	GRUB	21	EA	$ 105.00	$ 2,205.00	$ 125.00	$ 2,625.00	$ 121.80	$ 2,557.80	$ 260.00	$ 5,460.00	$ 390.00	$ 8,190.00
4	TRIM TREE BRANCHES	25	EA	$ 53.00	$ 1,325.00	$ 95.00	$ 2,375.00	$ 92.40	$ 2,310.00	$ 226.00	$ 5,650.00	$ 95.04	$ 2,376.00
5	STRIP & REUSE TOPSOIL	440	CY	$ 31.00	$ 13,640.00	$ 11.00	$ 4,840.00	$ 14.70	$ 6,468.00	$ 9.90	$ 4,356.00	$ 19.64	$ 8,641.60
6	SILT FENCE TYPE MS	1,700	LF	$ 2.50	$ 4,250.00	$ 4.40	$ 7,480.00	$ 2.99	$ 5,083.00	$ 3.10	$ 5,270.00	$ 1.92	$ 3,264.00
7	SELECT GRANULAR BORROW (CV)	720	TN	$ 30.00	$ 21,600.00	$ 32.00	$ 23,040.00	$ 23.10	$ 16,632.00	$ 23.50	$ 16,920.00	$ 24.25	$ 17,460.00
8	6" CLASS 5 AGGREGATE BASE	470	TN	$ 30.50	$ 14,335.00	$ 36.00	$ 16,920.00	$ 22.05	$ 10,363.50	$ 48.50	$ 22,795.00	$ 26.96	$ 12,671.20
9	1.5" TYPE 9.5 NON-WEARING COURSE MIXTURE (2,B)	100	TN	$ 131.00	$ 13,100.00	$ 126.00	$ 12,600.00	$ 141.75	$ 14,175.00	$ 141.00	$ 14,100.00	$ 150.00	$ 15,000.00
10	1.5" TYPE 9.5 WEARING COURSE MIXTURE (2,B)	100	TN	$ 131.00	$ 13,100.00	$ 126.00	$ 12,600.00	$ 121.75	$ 12,175.00	$ 141.00	$ 14,100.00	$ 150.00	$ 15,000.00
11	BITMINOUS MATERAIL FOR TACK COAT	75	GAL	$ 5.00	$ 375.00	$ 9.00	$ 675.00	$ 0.01	$ 0.75	$ 4.50	$ 337.50	$ 4.80	$ 360.00
12	GEOTEXTILE FABRIC TYPE V	350	SY	$ 3.00	$ 1,050.00	$ 2.55	$ 892.50	$ 5.25	$ 1,837.50	$ 1.80	$ 630.00	$ 5.00	$ 1,750.00
13	TOPSOIL BORROW	100	CY	$ 42.50	$ 4,250.00	$ 55.00	$ 5,500.00	$ 30.00	$ 3,000.00	$ 31.50	$ 3,150.00	$ 37.14	$ 3,714.00
14	SEEDING	0.41	AC	$ 1,600.00	$ 656.00	$ 1,050.00	$ 430.50	$ 5,250.00	$ 2,152.50	$ 1,140.00	$ 467.40	$ 1,440.00	$ 590.40
15	SEED MIXTURE 25-151	50	LB	$ 8.00	$ 400.00	$ 2.50	$ 125.00	$ 10.50	$ 525.00	$ 8.00	$ 400.00	$ 7.20	$ 360.00
16	HYDRAULIC STABILIZED FIBER MATRIX	510	LB	$ 3.00	$ 1,530.00	$ 3.20	$ 1,632.00	$ 4.20	$ 2,142.00	$ 2.90	$ 1,479.00	$ 7.20	$ 3,672.00
ALTERNATE 1 - TOTAL					**$ 101,995.00**		**$ 101,725.00**		**$ 87,856.70**		**$ 144,490.70**		**$ 113,861.70**

ALTERNATE 2 - 8' WALKING TRAIL

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0.33	EA	$ 10,800.00	$ 3,564.00	$ 18,250.00	$ 6,022.50	$ 14,000.00	$ 4,620.00	$ 120,860.00	$ 39,883.80	$ 38,250.00	$ 12,622.50
2	CLEAR	21	EA	$ 315.00	$ 6,615.00	$ 185.00	$ 3,885.00	$ 181.65	$ 3,814.65	$ 452.00	$ 9,492.00	$ 390.00	$ 8,190.00
3	GRUB	21	EA	$ 105.00	$ 2,205.00	$ 125.00	$ 2,625.00	$ 121.80	$ 2,557.80	$ 260.00	$ 5,460.00	$ 390.00	$ 8,190.00
4	TRIM TREE BRANCHES	25	EA	$ 53.00	$ 1,325.00	$ 95.00	$ 2,375.00	$ 92.40	$ 2,310.00	$ 226.00	$ 5,650.00	$ 95.04	$ 2,376.00
5	STRIP & REUSE TOPSOIL	440	CY	$ 31.00	$ 13,640.00	$ 11.00	$ 4,840.00	$ 14.70	$ 6,468.00	$ 9.90	$ 4,356.00	$ 19.64	$ 8,641.60
6	SILT FENCE TYPE MS	1,700	LF	$ 2.50	$ 4,250.00	$ 4.40	$ 7,480.00	$ 2.99	$ 5,083.00	$ 3.10	$ 5,270.00	$ 1.92	$ 3,264.00
7	SELECT GRANULAR BORROW (CV)	720	TN	$ 30.00	$ 21,600.00	$ 32.00	$ 23,040.00	$ 17.85	$ 12,852.00	$ 23.50	$ 16,920.00	$ 24.25	$ 17,460.00
8	6" CLASS 5 AGGREGATE BASE	390	TN	$ 33.50	$ 13,065.00	$ 36.00	$ 14,040.00	$ 22.05	$ 8,599.50	$ 48.50	$ 18,915.00	$ 26.45	$ 10,315.50
9	1.5" TYPE 9.5 NON-WEARING COURSE MIXTURE (2,B)	80	TN	$ 142.00	$ 11,360.00	$ 126.00	$ 10,080.00	$ 141.75	$ 11,340.00	$ 152.00	$ 12,160.00	$ 162.00	$ 12,960.00
10	1.5" TYPE 9.5 WEARING COURSE MIXTURE (2,B)	80	TN	$ 142.00	$ 11,360.00	$ 126.00	$ 10,080.00	$ 121.75	$ 9,740.00	$ 152.00	$ 12,160.00	$ 162.00	$ 12,960.00
11	BITMINOUS MATERAIL FOR TACK COAT	60	GAL	$ 5.00	$ 300.00	$ 9.00	$ 540.00	$ 0.01	$ 0.60	$ 4.50	$ 270.00	$ 4.80	$ 288.00
12	GEOTEXTILE FABRIC TYPE V	350	SY	$ 3.00	$ 1,050.00	$ 2.55	$ 892.50	$ 5.25	$ 1,837.50	$ 1.80	$ 630.00	$ 4.59	$ 1,606.50
13	TOPSOIL BORROW	100.00	CY	$ 42.50	$ 4,250.00	$ 55.00	$ 5,500.00	$ 30.00	$ 3,000.00	$ 34.00	$ 3,400.00	$ 47.82	$ 4,782.00
14	SEEDING	0	AC	$ 1,600.00	$ 656.00	$ 1,050.00	$ 430.50	$ 5,250.00	$ 2,152.50	$ 1,140.00	$ 467.40	$ 1,440.00	$ 590.40
15	SEED MIXTURE 25-151	50	LB	$ 8.00	$ 400.00	$ 2.50	$ 125.00	$ 10.50	$ 525.00	$ 8.00	$ 400.00	$ 7.20	$ 360.00
16	HYDRAULIC STABILIZED FIBER MATRIX	510	0	$ 3.00	$ 1,530.00	$ 3.20	$ 1,632.00	$ 4.20	$ 2,142.00	$ 2.90	$ 1,479.00	$ 7.20	$ 3,672.00
ALTERNATE 2 - TOTAL					**$ 97,170.00**		**$ 93,587.50**		**$ 77,042.55**		**$ 136,913.20**		**$ 108,278.50**

BASE BID + ALTERNATE 1 TOTAL	**$ 227,435.00**	**$ 230,115.25**	**$ 243,559.05**	**$ 335,656.66**	**$ 355,234.10**
BASE BID + ALTERNATE 2 TOTAL	**$ 222,610.00**	**$ 221,977.75**	**$ 232,744.90**	**$ 328,079.16**	**$ 349,650.90**

NOTES:

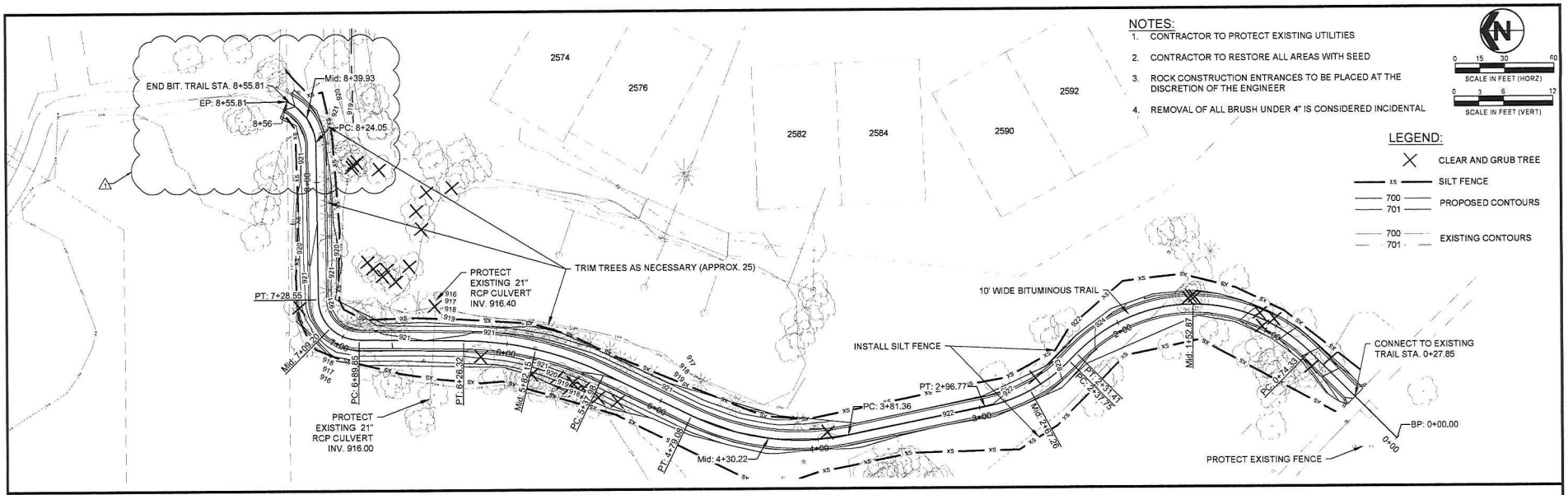
1. CONTRACTOR TO PROTECT EXISTING UTILITIES
2. CONTRACTOR TO RESTORE ALL AREAS WITH SEED
3. ROCK CONSTRUCTION ENTRANCES TO BE PLACED AT THE DISCRETION OF THE ENGINEER
4. REMOVAL OF ALL BRUSH UNDER 4" IS CONSIDERED INCIDENTAL

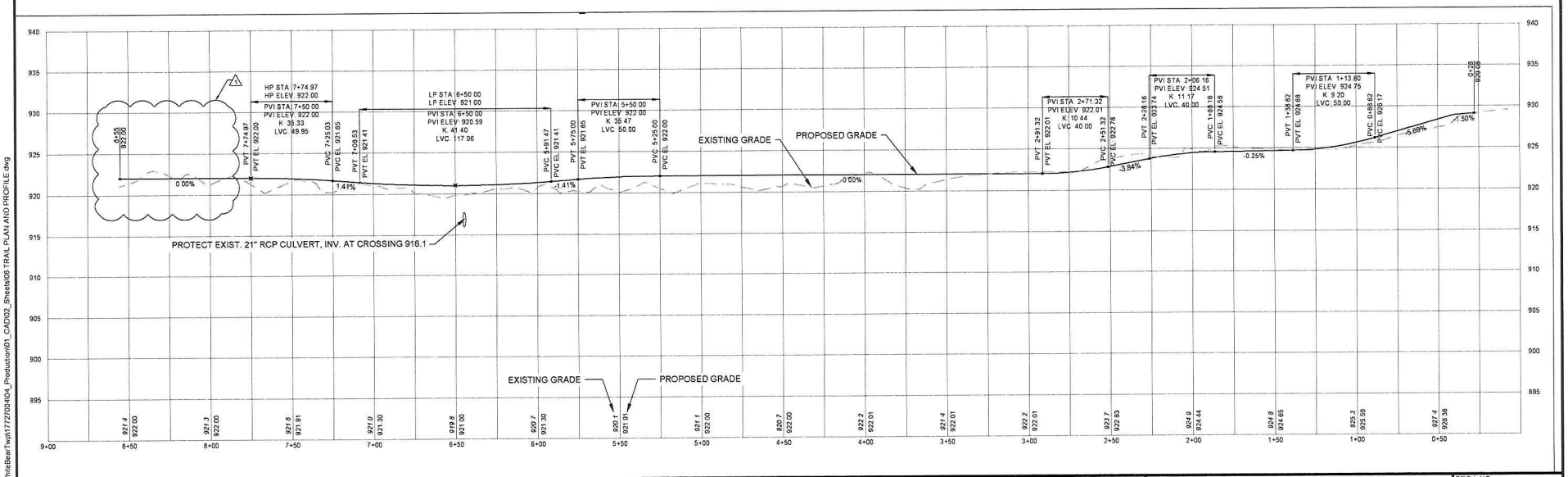
SCALE IN FEET (HORZ) 0 15 30 60

SCALE IN FEET (VERT) 0 3 6 12

LEGEND:

- CLEAR AND GRUB TREE
- SILT FENCE
- PROPOSED CONTOURS (700, 701)
- EXISTING CONTOURS (700, 701)





NO.	DATE	BY	DESCRIPTION OF REVISIONS
1	8/24/2020	JES	ADDENDUM #1

DESIGNED JES
DRAWN NDK
CHECKED LPP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE: DATE 8/3/2020
NAME JAMES E. STUDENSKI LIC. NO. 23757

TKDA
444 Cedar Street, Suite 1500
Saint Paul, MN 55101
651.292.4400
tkda.com

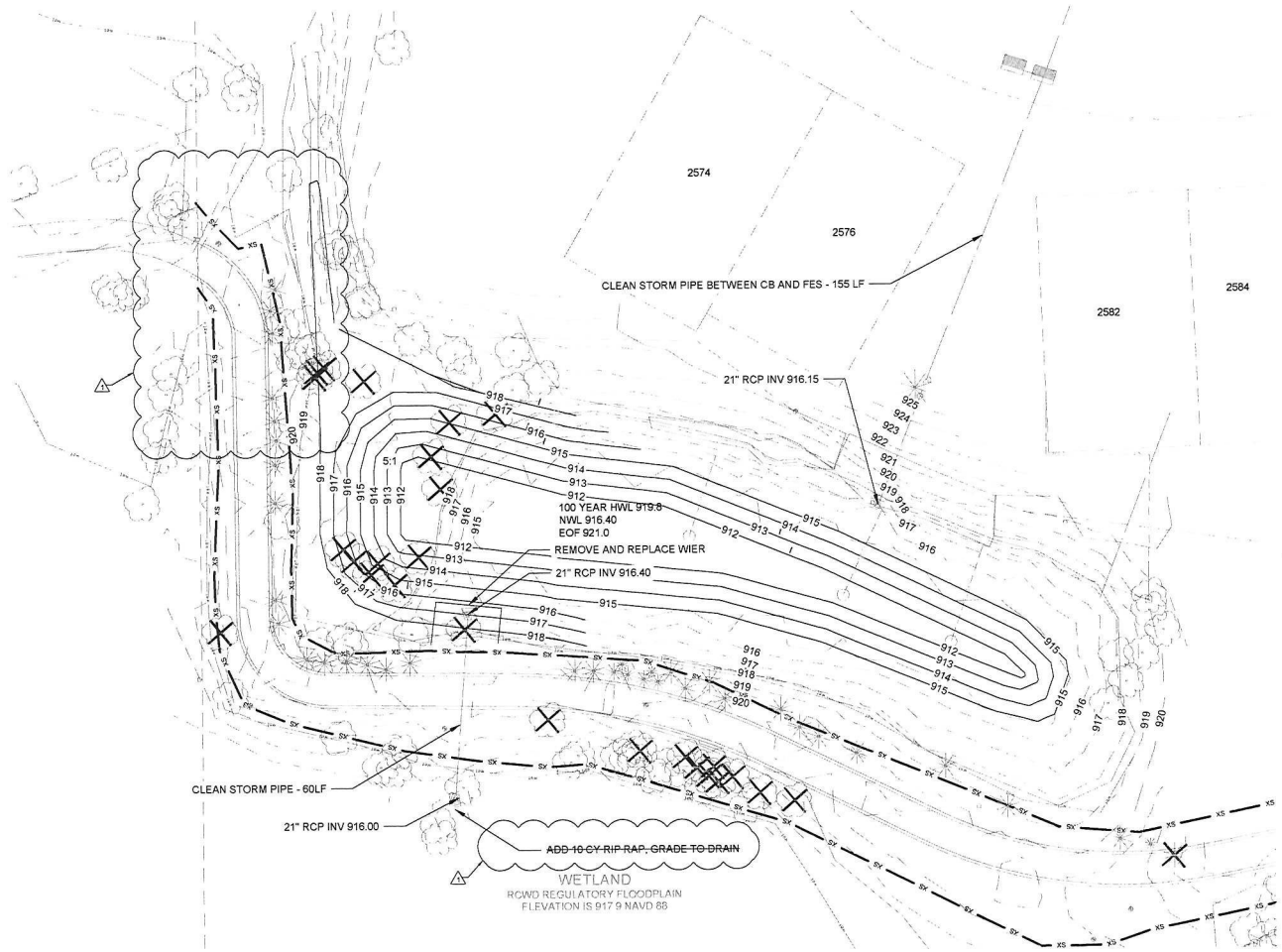
DEER MEADOW PARK TRAIL, POND AND SWALE IMPROVEMENTS

TRAIL PLAN AND PROFILE

PROJ. NO. 17727.004

DRAWING NO. 06

PLOT DATE Aug 24, 2020 - 10:28am
FILENAME K:\tr-st\WhiteBear\wp\17727\004\04_Production\01_CAD\02_Sheets\06 TRAIL PLAN AND PROFILE.dwg



SCOPE OF WORK:

1. LOCATE & PROTECT EXISTING UTILITIES THROUGH GOPHER STATE ONE-CALL.
2. INSTALL ROCK CONSTRUCTION ENTRANCE.
3. EXCAVATE POND BASIN BOTTOM TO ELEV. 912. DISPOSE OF MATERIAL EXCAVATED FROM BASIN BOTTOM. GRADE TO A FLAT SURFACE.
4. ALL EXCAVATED MATERIAL SHALL BE DISPOSED IN ACCEPTABLE MANNER AND IN ACCORDANCE WITH LAWS, RULES, AND REGULATIONS OF JURISDICTIONS WITH AUTHORITY OVER THE DISPOSAL SITE.
5. SOIL SAMPLES HAVE BEEN TAKEN IN THE AREA, SEE SPECIFICATIONS APPENDIX A. PLEASE USE THESE SOIL TESTS AS A GUIDE FOR CONTRACTORS RESPONSIBILITY FOR DISPOSAL OF MATERIALS.
6. PLACE 4" (MIN) OF TOPSOIL AND SEED ALL DISTURBED AREAS (EXCEPT AREA BELOW NWL) WITH MNDOT SEED MIX 33-261 @ 35 LBS/ACRE.
7. CLEAN STORM SEWER PIPE USING VAC TRUCK OR ENGINEER APPROVED EQUAL.

NOTES:

1. CONTRACTOR TO RESTORE ALL AREAS WITH SEED
2. ROCK CONSTRUCTION ENTRANCES TO BE PLACED AT THE DISCRETION OF THE ENGINEER
3. REMOVAL OF ALL BRUSH UNDER 4" IS CONSIDERED INCIDENTAL
4. CLEAR AND GRUB ALL TREES AND BRUSH LOCATED ON INSLOPES
5. 1280 CY OF FLOODPLAIN STORAGE WILL BE RESTORED

LEGEND:

- CLEAR AND GRUB TREE
- SILT FENCE
- 700 / 701 PROPOSED CONTOURS
- 700 / 701 EXISTING CONTOURS

0 10 20 40
SCALE IN FEET

NO.	DATE	BY	DESCRIPTION OF REVISIONS
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1	8/24/2020	JES	ADDENDUM #1

DESIGNED JES
DRAWN NDK
CHECKED LPP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE _____ DATE 8/3/2020
NAME JAMES E. STUDENSKI LIC. NO. 23757

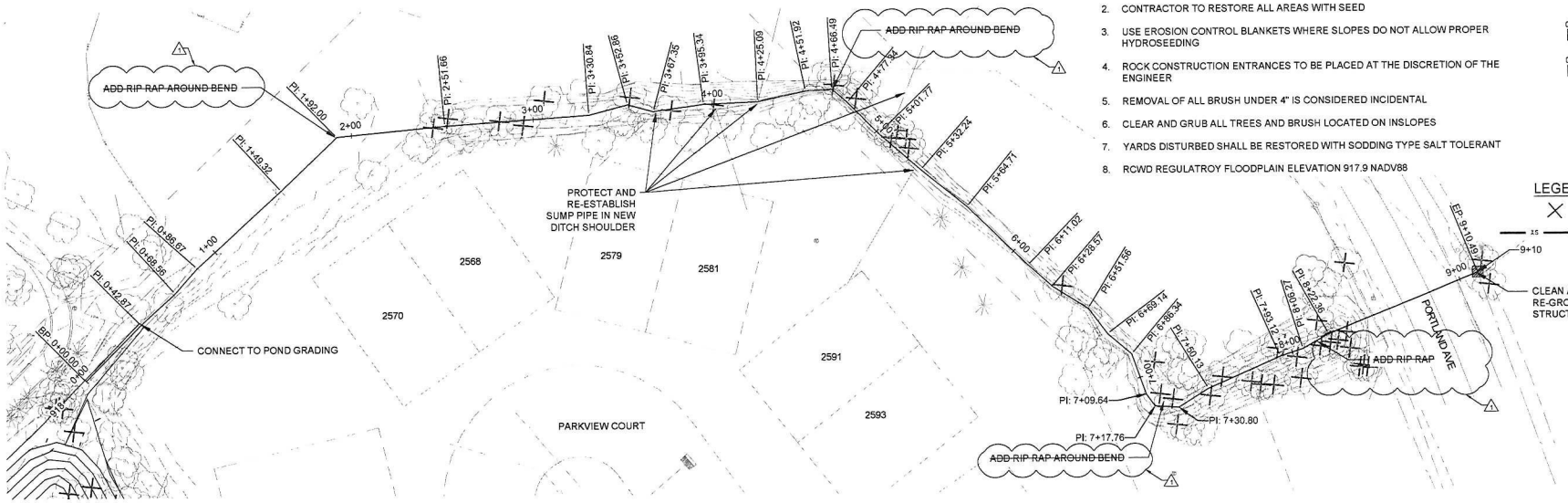
TKDA
444 Cedar Street, Suite 1500
Saint Paul, MN 55101
651.292.4400
tkda.com

DEER MEADOW PARK TRAIL, POND AND SWALE IMPROVEMENTS

POND GRADING

PROJ. NO. 17727.004
DRAWING NO. 07

PLOT DATE Aug 24, 2020 - 10:30am
FILENAME K:\In-2\WhiteBearTwp\17727004\04_Production\01_CAD\02_Sheets\07 POND GRADING.dwg



NOTES:

1. CONTRACTOR TO PROTECT EXISTING UTILITIES
2. CONTRACTOR TO RESTORE ALL AREAS WITH SEED
3. USE EROSION CONTROL BLANKETS WHERE SLOPES DO NOT ALLOW PROPER HYDROSEEDING
4. ROCK CONSTRUCTION ENTRANCES TO BE PLACED AT THE DISCRETION OF THE ENGINEER
5. REMOVAL OF ALL BRUSH UNDER 4" IS CONSIDERED INCIDENTAL
6. CLEAR AND GRUB ALL TREES AND BRUSH LOCATED ON INSLOPES
7. YARDS DISTURBED SHALL BE RESTORED WITH SODDING TYPE SALT TOLERANT
8. RCWD REGULATROY FLOODPLAIN ELEVATION 917.9 NADV88

N

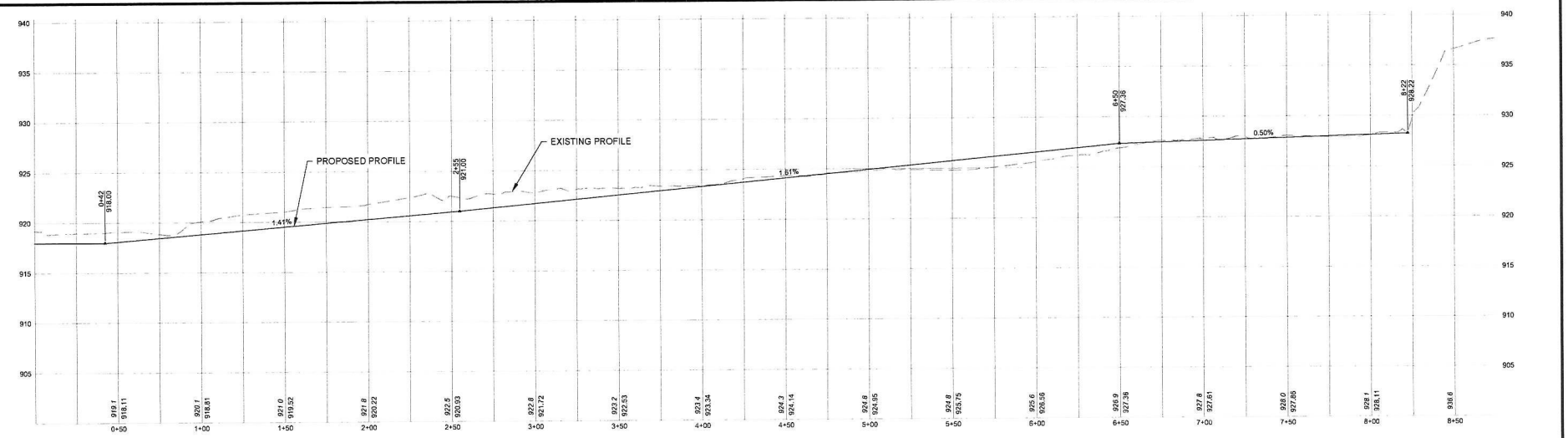
0 15 30 60
SCALE IN FEET (HORZ)

0 2.5 5 10
SCALE IN FEET (VERT)

LEGEND:

X CLEAR AND GRUB TREE

2.5 SILT FENCE



NO	DATE	BY	DESCRIPTION OF REVISIONS
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
1	8/24/2020	JES	ADDENDUM #1

DESIGNED JES
DRAWN NDK
CHECKED LPP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE [signature] DATE 8/3/2020
NAME JAMES E. STUDENSKI LIC. NO. 23757

TKDA
444 Cedar Street, Suite 1500
Saint Paul, MN 55101
651.292.4400
tkda.com

DEER MEADOW PARK TRAIL, POND AND SWALE IMPROVEMENTS

DITCH CLEANOUT

PROJ. NO. 17727.004

DRAWING NO. 08

PLOT DATE Aug 24, 2020 - 10:32am
FILENAME K:\n-z\Whitebear\wp\17727004\04_Production\01_CAD\02_Sheets\09 DITCH CLEANOUT.dwg