EXHIBIT 1

GREENWAY BOUNDARY MAP AND PROJECT PLANS



Madison, Wisconsin

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CITY OF MADISON CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT MENDOTA GRASSMAN GREENWAY FLOOD MITIGATION AND RESTORATION DESIGN

CITY PROJECT NO. 00373112 CONTRACT NO. 9439



		NO.	DATE	REVISION	BY	_			
PROJECT DATE: .	DRAWN BY: Init	•			· · ·			FUNDING PLANNING ENVIRONMENTAL	MENDOTA GRASSMAN GREENWAY IMPROVEMENTS
	DESIGNED BY: Init	•		· _	· · ·	$((\chi))$	MSA	1702 Pankratz St Madison, WI 53704	CITY OF MADISON
	CHECKED BY: Init					19		(608) 242-7779 www.msa-ps.com	
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PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer

GREENWAY, UTILITY, AND ROADWAY DESIGN BY:

Project Manager

CULVERT STRUCTURAL DESIGN BY:

Project Engineer

	PROJECT NO. 00373112
THE SHEET	SHEET T1





	MENDOTA GRASSMAN GREENWAY IMPRO
1702 Pankratz St Madison, WI 53704	CITY OF MADISON
(608) 242-7779 www.msa-ps.com © MSA Professional Services, Inc.	LOCATION

ROJECT DATE:

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DRAWN BY:

DESIGNED BY: Init CHECKED BY: Init

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MENDOTA GRASSMAN GREENWAY IMPROVEMENTS
CITY OF MADISON
LOCATION

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EXISTING OPEENWAY TYPICAL SECTIONS	00373112
EXISTING GREENWAT TIFICAL SECTIONS	SHEET TS1







	207 207 207 207 207 207 207 207 207 207	200 200 200 200 200 200 200 200	16 219 218 218 218 217 217 210 315 220 335 4 325 325 325 325 325 325 325 325 325 325	PROPERTY LINE (TYP.) GRADING LIMITS (TYP.) 1082 1084 1085 108	CLEARING AND GRUBB 1) TREES CALLED O 2) THE CONTRACTO TREES THAT ARE 3) BRANCHES BROK TREES, SHALL BE SPECIFICATIONS 4) STUMPS WITHIN 40 40 40 47 47 47 47 47 47 47 47 47 47	SING NOTES: DUT WITH A LABEL ARE TREES THAT SHALL BE SAVED. DR SHALL CONSULT WITH THE ENGINEER PRIOR TO LIMBING AN E TO REMAIN. SEN ON SAVED TREES, DURING THE FELLING OF ADJACENT E CUT OR LIMBED IN ACCORDANCE WITH THE STANDARD THE GRADING LIMITS SHALL BE GRUBBED. E OF THE GRADING LIMITS SHALL BE GRUBBED. THE GRADING LIMITS SHALL BE GRUBBED. E OF THE GRADING LIMITS SHALL NO BE GRUBBED, THEY SHAL TO WITHIN 3" OF THE GROUND AND TREATED WITH HERBICIDE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE
	2235 245 255 224 2 236 45 224 2 236 45 225 2 3 3 2 225 2 3 3 2 225 2 3 2 3 2 3 2 225 2 3 2 3 2 3 2 225 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3		PROTECT ON PRIV	TEXISTING OAK ATE PROPERTY	214 343 1 343 343 1 345 1 345 1 345 1 345 1 345 1 1 345 1 1 345 1 1 1 1 1 1 1 1 1 1 1 1 1	IREE REMOVAL LEGEND EE TO REMAIN & TREE TAG NUMBER, SEE TABLE FOR DETAILS EE TO BE REMOVED, SEE SHEETS TR4-TR5 FOR DETAILS INIDUAL TREE PROTECTION FENCING. TO BE INSTALLED A IMUM 10-FOOT DIAMETER AROUND TREE, OR AT DRIPLINE ERE CALLED OUT ON PLANS EE PROTECTION FENCING. INSTALL IERE SHOWN ON PLANS ROOT CUTTING PER #90009 TREES TO REMAIN DBH SPECIES 22,10,6,10 Silver Maple Acer saccharinum 9.5 Walnut Jugians sp. 6 Walnut Jugians sp. 39,5 Bur Oak Quercus macrocarpa
PROJECT DATE: . DRAWN BY: Int . J. DESIGNED BY: Int . J.	REVISION BY		5 ARCHITECTURE SURVEYING PLANNING ENVIRONMENTAL KRAT2 SI MADING / ENVIRONMENTAL	TA GRASSMAN GREENWAY IMPROVEMEN CITY OF MADISON	Iabeling convention Can you confirm that over towards Univer herehard to tell if i	not the same as other pages. At the view extend far enough rsity? I dont see tree #476 on it's on the next sheet?



TREES TO REMAIN											
TAG # DBH SPECIES											
214	14,8,22,10,6,10	Silver Maple Acer saccharinum									
224	9.5	Walnut Juglans sp.									
225	9	Walnut Juglans sp.									
254	6	Walnut Juglans sp.									
342	39.5	Bur Oak Quercus macrocarpa									



	TR	EES TO REMAIN	
TAG #	DBH	SPECIES	
3	12	Pine	
8	10	Pine	
353	34	Bur Oak Quercus macrocarpa	
356	20,22	Bur Oak Quercus macrocarpa	
363	22	White Oak Quercus alba	
369	7.5	Shagbark Hickory Carya ovata	
401	10.5	Shagbark Hickory Carya ovata	
404	9	Shagbark Hickory Carya ovata	
405	11	Red Oak Quercus rubra	
410	15	Shagbark Hickory Carya ovata	
411	16.5	Red Oak Quercus rubra	_
412	5.5	Bur Oak Ouercus macrocarpa	
415	6	Bur Oak Quercus macrocarpa	
416	13	Bur Oak Quercus macrocarpa	*
419	14.5	Bur Oak Quercus macrocarpa	
420	9.5	Bur Oak Quercus macrocarpa	* /
421	12.5	Bur Oak Quercus macrocarpa	
422	15.5	Bur Oak Quercus macrocarpa	*
423A	4	Shagbark Hickory Carya ovata	
424	8.5	Shagbark Hickory Carya ovata	*
426	18.5	Bur Oak Quercus macrocarpa	
1018	29.5	Cottonwood Populus deltoides	• / , ²
1037	21	Black Oak Quercus velutina	- /
1052	7.5	Oak Quercus	/
1066	32.5	Bur Oak Quercus macrocarpa Michx Red Oak Ouercus rubra	
1071	3.5	Bur Oak Quercus macrocarpa Michx	<i></i>
1079	9	Shagbark Hickory Carya ovata	/ 11
1090	8.5	Basswood Tilia americana	<pre>////</pre>
		UNIVERSITY AVE	
	TREE	E REMOVAL PLAN	* PROJECT NO. 00373112 SHEET
			TR2



		TREE	S TO REMAIN					
	TAG #	DBH	SPECIES					
ltoides	5767	13	Shagbark Hickory Carya ovata					
a ovata	5770	11	Shagbark Hickory Carya ovata					
arinum	5771	9	Shagbark Hickory Carya ovata					
arinum	5772	12	Shagbark Hickory Carya ovata					
Itoides	5773	9	Shagbark Hickory Carya ovata					
Itoides	5774	32	Bur Oak Quercus macrocarpa					
arinum	5776	9	Shagbark Hickory Carya ovata					
arinum	5777	4	Shagbark Hickory Carya ovata					
1	5778	5	Shagbark Hickory Carya ovata					
ticulata	5779	11	Shagbark Hickory Carya ovata					
estris	5783	17	Shagbark Hickory Carya ovata					
ticulata	5784	16	Shagbark Hickory Carya ovata					
cana	5785	5	Shagbark Hickory Carya ovata					
ovata	5788	17	Shagbark Hickory Carya ovata					
gra	5789	7	Shagbark Hickory Carva ovata					
	5801	25	Bur Oak Quercus macrocarpa					
	5803	13	Black Cherry Prunus serotina					
carpa	5804	15	Basswood Tilia americana					
carpa	5806	6	Shagbark Hickory Carya ovata					
carpa	5807	19	Black Cherry Prunus serotina					
carpa	5808	16	Shagbark Hickory Carya ovata					
carpa	5810	16	Black Cherry Prunus serotina					
carpa	5811	6	Black Cherry Prunus serotina					
carpa	5813	9	Black Cherry Prunus serotina					
carpa	5814	7	Shagbark Hickory Carya ovata					
arinum	5815	9	Black Cherry Prunus serotina					
carpa	5820	17	Bur Oak Quercus macrocarpa					
carpa	5823	14	Cherry Prunus sp.					
carpa	5827	13	Silver Maple Acer saccharinum					
carpa	5829	26	Cottonwood Populus deltoides					
ovata	5835	22	Silver Maple Acer saccharinum					
carpa	5856	6	Shagbark Hickory Carya ovata					
ovata	5857	19	Shagbark Hickory Carva ovata					
ovata	5858	23	White Oak Quercus alba					
ovata	5860	22	White Oak Quercus alba					
ovata	5864	14	Cherry Prunus sp.					
ovata	5869	5	Shagbark Hickory Carva ovata					
ovata	5931	30	Cottonwood Populus deltoides					
ovata	5932	33	Cottonwood Populus deltoides					
ovata	5933	27	Cottonwood Populus deltoides					
ovata	5934	18	Cottonwood Populus deltoides					
ovata	5976	11	Swamp White Oak Quercus bicolo					

NOTE		TRE	ES TO BE REMOVED		TR	EES TO BE REMOVED		TRE	ES TO BE REMOVED	TREES TO BE REMOVED			TREES TO BE REMOVED		
TREE TAG #s 1 - 38 ARE NOT	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES
TAGGED IN THE FIELD.	1	34.5	Unknown	258	5.5	Green Ash Fraxinus pennsylvanica	326	4.5	Silver Maple Acer saccharinum	435	10.5	Mulberry Morus sp.	849	12	Elm Ulmas sp.
	9	10	Dead-snag	259	7.5	Green Ash Fraxinus pennsylvanica	327	4,3,4	Buckthorn Rhamnus cathartica	437	7	Mulberry Morus sp.	855	22	Poplar populus sp.
	10	4	Pear	260	5	Boxelder Acer negundo	328	24,14,19	Willow Salix sp.	439	4	Mulberry Morus sp.	856	34	Poplar populus sp.
	11	2	Ginkgo biloba	261	5	Elm Ulmas sp.	329	31	Cottonwood Populus deltoides	440	8	Shagbark Hickory Carya ovata	863	17	Cottonwood Populus deltoides
	202	5	Green Ash Fraxinus pennsylvanica	262	9	Boxelder Acer negundo	330	4.5	Silver Maple Acer saccharinum	441	15	Boxelder Acer negundo	864	14	Elm Ulmas sp.
	203	11	Boxelder Acer negundo	263	8	Boxelder Acer negundo	332	6	Silver Maple Acer saccharinum	442	10.5,7	Boxelder Acer negundo	865	21	Cottonwood Populus deltoides
	204	4,4,2	Mulberry Morus sp.	264	4	Boxelder Acer negundo	334	9.5	Silver Maple Acer saccharinum	443	45	Cottonwood Populus deltoides	868	3,2	Mulberry Morus sp.
	205	7.5	Mulberry Morus sp.	265	5.5	Elm Ulmas sp.	335	9	Red Cedar Juniperus virginiana	444	3,3,3,2,2	Boxelder Acer negundo	869	12	Cottonwood Populus deltoides
	206	5,3	Buckthorn Rhamnus cathartica	266	4.5	Boxelder Acer negundo	337	16	Boxelder Acer negundo	447	5.5	Boxelder Acer negundo	870	19	Elm Ulmas sp.
	207	6,6	Willow Salix sp.	267	5,5	Elm Ulmas sp.	338	13	Black Locust Robina pseudoacacia	448	13,7.5	Black Locust Robina pseudoacacia	871	23	Cottonwood Populus deltoides
	208	14	Walnut Juglans sp.	268	6	Mulberry Morus sp.	339	13	Black Locust Robina pseudoacacia	449	4	Boxelder Acer negundo	873	4	Basswood Tilia americana
	209	7.5	Elm Ulmas sp.	269	4	Mulberry Morus sp.	341	10.5	Black Cherry Prunus serotina	450	7	Black Locust Robina pseudoacacia	874	17	Silver Maple Acer saccharinum
	210	15	Willow Salix sp.	270	8.5	Black Locust Robina pseudoacacia	343	4	Boxelder Acer negundo	475	13	Mulberry Morus sp.	875	5	Boxelder Acer negundo
	211	9,2	Green Ash Fraxinus pennsylvanica	271	5,4.5	Mulberry Morus sp.	344	6.5	Black Cherry Prunus serotina	477	- 8	Green Ash Fraxinus pennsylvanica	876	17	Silver Maple Acer saccharinum
	212	16.5	Willow Salix sp.	272	9	Black Locust Robina pseudoacacia	345	4	Boxelder Acer negundo	478	7	Silver Maple Acer saccharinum	877	17	Cottonwood Populus deltoides
	213	8.5	Green Ash Fraxinus pennsylvanica	273	4.5	Elm Ulmas sp.	348	5	Buckthorn Rhamnus cathartica	479	6	Elm Ulmas sp.	878	5	Boxelder Acer negundo
	215	4.5	Mulberry Morus sp.	274	5.5	Boxelder Acer negundo	349	6,6.5	Boxelder Acer negundo	480	6	Elm Ulmas sp.	879	4	Boxelder Acer negundo
	216	10	Silver Maple Acer saccharinum	275	11	Elm Ulmas sp.	350	5.5,4	Black Cherry Prunus serotina	481	3,2,2	Silver Maple Acer saccharinum	880	10	Elm Ulmas sp.
	217	10	Boxelder Acer negundo	276	19	Willow Salix sp.	351	4	Buckthorn Rhamnus cathartica	482	5,5	Mulberry Morus sp.	881	10	Willow Salix sp.
	218	5	Boxelder Acer negundo	277	7	Elm Ulmas sp.	352	20	Mulberry Morus sp.	483	10	Mulberry Morus sp.	882	8	Elm Ulmas sp.
	219	19.5	Boxelder Acer negundo	278	8.5	Boxelder Acer negundo	354	6	Mulberry Morus sp.	484	19	Boxelder Acer negundo	883	4	Elm Ulmas sp.
	220	20.5,12.5	Willow Salix sp.	279	20.5	Willow Salix sp.	355	6.5	Elm Ulmas sp.	485	6	Mulberry Morus sp.	884	15	Cottonwood Populus deltoides
	221	7.6	Elm Ulmas sp.	280	8	Elm Ulmas sp.	357	10	Red Pine Pinus resinosa	487	18	Mulberry Morus sp.	885	10	Elm Ulmas sp.
	222	4.5	Willow Salix sp.	281	8	Mulberry Morus sp.	358	11	Mulberry Morus sp.	488	12	Cherry Prunus sp.	886	4	Boxelder Acer negundo
	223	4,6.5	Elm Ulmas sp.	282	9	Elm Ulmas sp.	359	6	Elm Ulmas sp.	488	12	Cherry Prunus sp.	887	7	Boxelder Acer negundo
	223	4,6.5	Elm Ulmas sp.	283	5	Elm Ulmas sp.	360	5	Red Pine Pinus resinosa	489	14	Bur Oak Quercus macrocarpa	888	5	Boxelder Acer negundo
	226	10.5	Walnut Juglans sp.	284	23	Willow Salix sp.	361	6	White Pine Pinus strobus	490	8,7	Mulberry Morus sp.	889	5	Boxelder Acer negundo
	227	27	Cottonwood Populus deltoides	285	6	Boxelder Acer negundo	362	13.5	Mulberry Morus sp.	491	24	Red Oak Quercus rubra	890	5	Buckthorn Rhamnus cathartica
	228	8,6	Walnut Juglans sp.	286	5.5	Crabapple Malus sp.	364	53	Cottonwood Populus deltoides	492	- 5	Mulberry Morus sp.	891	29,10	Cottonwood Populus deltoides
	229	13	Red Cedar Juniperus virginiana	287	5	Walnut Juglans sp.	365	20	Mulberry Morus sp.	493	6	Mulberry Morus sp.	892	5,3,3	Buckthorn Rhamnus cathartica
	230	5.5	Boxelder Acer negundo	288	28	Cottonwood Populus deltoides	366	4.5	White Spruce Picea glauca	494	7	Basswood Tilia americana	893	20,9,5	Boxelder Acer negundo
	231	6	Green Ash Fraxinus pennsylvanica	289	5.5	Boxelder Acer negundo	367	6	Mulberry Morus sp.	495	5	Hackberry Celtis occidentalis	894	6	Elm Ulmas sp.
	231	6	Green Ash Fraxinus pennsylvanica	290	4	Walnut Juglans sp.	368	17	Bur Oak Quercus macrocarpa	496	4	Mulberry Morus sp.	896	7	Silver Maple Acer saccharinum
	232	6.5	Elm Ulmas sp.	291	5	Walnut Juglans sp.	370	12.5	Shagbark Hickory Carya ovata	497	15	Black Locust Robina pseudoacacia	897	16	Cottonwood Populus deltoides
	233	6.5	Elm Ulmas sp.	292	4.5	Walnut Juglans sp.	371	7	Mulberry Morus sp.	498	4,2	Boxelder Acer negundo	898	7	Silver Maple Acer saccharinum
	234	8.5	Green Ash Fraxinus pennsylvanica	293	5,5	Walnut Juglans sp.	372	22	Bur Oak Quercus macrocarpa	499	7	Mulberry Morus sp.	899	5	Buckthorn Rhamnus cathartica
	235	4	Silver Maple Acer saccharinum	294	5	Wainut Jugians sp.	373	4	Maple Acer sp.	500	6,3	Mulberry Morus sp.	901	13	Cottonwood Populus deltoides
	230	4,3	Elm Olmas sp.	295	0,5	Boxelder Acer negundo	374	13 6	Mulberry Monus co	801	0 E	Silver Maple Acer saccharinum	902	10	Silver Maple Acer saccharinum
	237	0.5	Walnut Juglans sp.	296	15	Wainut Jugrans sp.	375	13.5	White Codes Thula essidentalis	802	5	Mulberry Morus sp.	903	19	Cottonwood Populus deitoides
	230	9.5	Mulharry Morus sp.	200	6.5	Walaut luglass sp	370	6.3	White Cedar Thuja occidentalis	803	6,4	Buckthorn Bhampus cathartica	904	10	Silver Maple Acer saccharinum
	239	16.5	Willow Salix so	298	0,5	Boxelder Aser peguado	377	0.2	Silver Maple Acer saccharinum	804	3,2	Cottonwood Ropulus deltoides	905	6	Silver Maple Acer saccharinum
	240	45	Green Ash Eravious penpsylvanica	300	12	Black locust Robina pseudoacacia	370	7.4.5	Mulberry Morus sp	805	11	Mulberry Morus sp	907	20	Cottonwood Populus deltoides
	242	5.5	Elmilimas sp	301	45	Boxelder Aser peguado	380	10.5	Mulberry Morus sp.	800	7	Silver Maple Acer saccharinum	908	6	Boxel der Acer pesundo
	243	6.4	Boyaldar Acar pagupdo	302	6.5	Black locust Bobina pseudoacacia	384	20.5	Boxelder Acer perundo	808	6	Boxelder Acer saccharmon	909	4	Buckthorn Rhampus cathactica
	244	6.5.3	Elm Ulmas sp.	303	19.5	Willow Salix sp.	387	7	Silver Maple Acer saccharinum	809	4	Buckthorn Bhamnus cathartica	910	9	Elm Ulmas sp.
	245	5.5	Elm Ulmas sp.	304	29.15	Black Locust Bobina pseudoacacia	388	6	Walnut Juglans sp.	810	19	Poplar populus sp.	911	8	Silver Maple Acer saccharinum
	246	5	Mulberry Morus sp.	305	6.5	Black Locust Robina pseudoacacia	391	13.5	Cottonwood Populus deltoides	811	10	Mulberry Morus sp.	913	7	Silver Maple Acer saccharinum
	247	13	Cottonwood Populus deltoides	306	6	Boxelder Acer negundo	392	4	Silver Maple Acer saccharinum	812	10	Mulberry Morus sp.	914	17	Silver Maple Acer saccharinum
	248	12.5	Silver Maple Acer saccharinum	307	7	Boxelder Acer negundo	394	20	Green Ash Fraxinus pennsylvanica	813	5	Mulberry Morus sp.	915	13	Cottonwood Populus deltoides
	249	19.5	Willow Salix sp.	308	4.5	Boxelder Acer negundo	395	10.5	Boxelder Acer negundo	814	6,5	Mulberry Morus sp.	916	5	Silver Maple Acer saccharinum
	250	16	Willow Salix sp.	309	4	Boxelder Acer negundo	396	11	Bur Oak Quercus macrocarpa	815	4	Mulberry Morus sp.	917	5,2	Boxelder Acer negundo
	251	15.5	Cottonwood Populus deltoides	310	7.5	Boxelder Acer negundo	397	12	Cottonwood Populus deltoides	816	24	Poplar populus sp.	918	4	Cherry Prunus sp.
	252	4.5	Green Ash Fraxinus pennsvlvanica	311	13	Black Locust Robina pseudoacacia	398	12	Cottonwood Populus deltoides	817	6	Silver Maple Acer saccharinum	919	13	Elm Ulmas sp.
	253	5.5	Green Ash Fraxinus pennsylvanica	312	9	Boxelder Acer negundo	403	5	Boxelder Acer negundo	819	15	Poplar populus sp.	921	5	Boxelder Acer negundo
	255	8	Boxelder Acer negundo	313	6	Black Locust Robina pseudoacacia	407	31.5	Red Oak Quercus rubra	820	16	Silver Maple Acer saccharinum	923	7	Elm Ulmas sp.
	256	11	Willow Salix sp.	314	10.5	Elm Ulmas sp.	408	5.5	Shagbark Hickory Carya ovata	821	25	Poplar populus sp.	924	9	Boxelder Acer negundo
	257	7	Boxelder Acer negundo	315	20.5	Willow Salix sp.	409	12	Shagbark Hickory Carya ovata	822	6	Mulberry Morus sp.	924	9	Boxelder Acer negundo
				316	17	Black Locust Robina pseudoacacia	413	6	Shagbark Hickory Carya ovata	823	6	Boxelder Acer negundo	925	9	Boxelder Acer negundo
				317	14.5	Black Locust Robina pseudoacacia	417	11	Bur Oak Quercus macrocarpa	825	4	Buckthorn Rhamnus cathartica	925	9	Boxelder Acer negundo
				318	10	Boxelder Acer negundo	418	7	Bur Oak Quercus macrocarpa	826	4	Boxelder Acer negundo	926	15	Elm Ulmas sp.
				319	6.5	Black Locust Robina pseudoacacia	427	22	Bur Oak Quercus macrocarpa	827	5	Elm Ulmas sp.	927	5	Buckthorn Rhamnus cathartica
				320	12	Black Locust Robina pseudoacacia	429	13.5	Boxelder Acer negundo	830	5	Boxelder Acer negundo	928	4	Buckthorn Rhamnus cathartica
				321	4	Boxelder Acer negundo	430	4.5	Boxelder Acer negundo	831	9	Walnut Juglans sp.	929	23	Cottonwood Populus deltoides
				322	11	Black Locust Robina pseudoacacia	432	10.5	Shagbark Hickory Carya ovata	832	4	Silver Maple Acer saccharinum	930	14	Mulberry Morus sp.
				323	14,10,8	Black Locust Robina pseudoacacia				836	29	Willow Salix sp.	931	4	Boxelder Acer negundo
				324	7	Silver Maple Acer saccharinum				837	31	Willow Salix sp.	932	37	Cottonwood Populus deltoides
				325	5	Silver Maple Acer saccharinum				848	23,22	Poplar populus sp.	933	31	Cottonwood Populus deltoides
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PROJECT DATE: . DRAWN	BY: Init	. DATE	REVISION		BY				MENDOTA GRASSMAN GREEN	WAY IMPF	ROVEMEN	rs			PROJECT NO. 00373112
DESIGN	ED BY: Init		·			(O) MSA 1702 Pankratz St	t Madison, WI 53704		CITY OF MADIS	SON		TRE	E REMOV	AL PLAN	SHEET
CHECKE	שט: Init		· · ·		·	(bU8) 242-7779	wwwww.ilisd-ps.com		LOCATION						TR4

TRE	ES TO BE REMOVED		TRE	ES TO BE REMOVED		TRE	ES TO BE REMOVED	TREES TC		EES TO BE REMOVED		TRE	ES TO BE REMOVED
TAG # DBH	SPECIES	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES	TAG #	DBH	SPECIES
934 26	Cottonwood Populus deltoides	1020	5.5	Elm Ulmas sp.	5642	6	Green Ash Fraxinus pennsylvanica	5817	16	Boxelder Acer negundo	5967	10,5	Boxelder Acer negundo
935 6	Boxelder Acer negundo	1023	10.5	Boxelder Acer negundo	5643	15	Boxelder Acer negundo	5818	10	Black Cherry Prunus serotina	5968	4,3	Black Locust Robina pseudoacacia
936 8	Boxelder Acer negundo	1024	15.5	Black Cherry Prunus serotina	5644	13	Elm Ulmas sp.	5819	10	Boxelder Acer negundo	5969	5	Black Locust Robina pseudoacacia
937 6	Boxelder Acer negundo	1025	11	Boxelder Acer negundo	5645	14	Boxelder Acer negundo	5821	13,7	Boxelder Acer negundo	5970	6	Black Locust Robina pseudoacacia
938 14	Cottonwood Populus deltoides	1026	3	Boxelder Acer negundo	5646	11	Green Ash Fraxinus pennsylvanica	5822	5	Elm Ulmas sp.	5971	5	Sumac Rhus sp.
939 21	Mulberry Morus sp.	1027	11	Boxelder Acer negundo	5659	16	Boxelder Acer negundo	5824	14	Cherry Prunus sp.	5972	6	Black Locust Robina pseudoacacia
940 8	Mulberry Morus sp.	1031	7	Boxelder Acer negundo	5660	6	Boxelder Acer negundo	5825	16	Boxelder Acer negundo	5973	4	Black Locust Robina pseudoacacia
941 4	Buckthorn Rhamnus cathartica	1032	5	Buckthorn Rhamnus Cathartica L	5661	7.7	Boxelder Acer negundo	5828	5	Boxelder Acer negundo	5974	12	Black Locust Robina pseudoacacia
942 4	Buckthorn Rhamnus cathartica	1033	25	Red Oak Ouercus rubra	5662	9	Boxelder Acer negundo	5830	15	Cottonwood Populus deltoides	5977	4	Black Locust Robina pseudoacacia
943 12	Boxelder Acer negundo	1034	9.5	Boxelder Acer negundo	5663	8	Basswood Tilia americana	5831	5.2	Silver Maple Acer saccharinum	5978	5	Walnut Juglans sp.
944 8	Silver Maple Acer saccharinum	1035	6	Black Cherry Prunus serotina	5664	14	Elm Ulmas sp.	5832	7	Boxelder Acer negundo	5979	8	Willow Salix sp.
945 4.4.2	Buckthorn Rhamnus cathartica	1036	40	Red Oak Ouercus rubra	5665	6	Boxelder Acer negundo	5833	6	Elm Ulmas sp.	Med-1	3	Pear
947 12	Elm Ulmas sp.	1038	7	Buckthorn Bhamnus Cathartica L	5675	8.2	Boxelder Acer negundo	5834	14	Boxelder Acer negundo	Med-2	3	Pear
948 34	Willow Salix sp.	1039	21	Red Oak Ouercus rubra	5683	8	Boxelder Acer negundo	5836	8	Boxelder Acer negundo	Med-3	3	Pear
949 8	Green Ash Fraxinus pennsylvanica	1040	6	Buckthorn	5684	6	Boxelder Acer negundo	5847	8	Cherry Prunus sp.	Med-4	2	Crabapple
950 5	Boxelder Acer negundo	1041	5.5	Buckthorn Rhamnus Cathartica L	5685	4	Mulberry Morus sp.	5848	8	Boxelder Acer negundo	Med-5	3	Crabapple
951 7	Willow Salix sp.	1041	5.5	Buckthorn Bhamnus Cathartica L	5686	6	Boxel der Acer negundo	5859	7	Cherry Prunus sp.	1110.01.0		er de de pre
952 5	Boxelder Acer negundo	1042	11.5	Black Walnut Juglans Nigra L	5687	0	Black locust Robina pseudoacacia	5861	6	Cherry Prunus sp.			
952 11	Boxelder Acer negundo	1047	23	Cottonwood Populus deltoides	5689	6	Boxelder Acer perundo	5862	33	Bur Oak Overcus macrocarpa			
953 11	Buckthorn Bhampus cathartica	1051	45	Willow Salix alba	5702	6	Boxelder Acer negundo	5863	7	Boxelder Acer pegupdo			
055 3.2	Buckthorn Rhamnus cathartica	1051	36	Eilver Manla Aser Sassharinum	5702	7	Boxelder Acer negundo	5865	10	Boxelder Acer negundo			
955 5,2 056 A	Boxelder Aser perundo	1055	5 A A	Grabappie Acel Saccharmun	5703	0	Boxelder Acer negundo	5000	27	Silver Maple Aser sassbarinum			
956 4	Cottenueed Benulus delteides	1055	0,4,4	Crabapple mailus sylvestris	5704	9	Boxelder Acer negundo	5070	6/	Bevelder Acer saccharmum			
957 11	Cottonwood Populus deitoides	1057	3,3,3,3	Black Walaut Juglaar Nigra J	5705		Boxerder Acer negundo	5871	24	Boxelder Acer negundo			
958 13	Boxelder Acer negundo	1058	4.5	Black Walnut Juglans Nigra L.	5706	4	Black Locust Robina pseudoacacia	5876	21	White Oak Quercus alba			
959 4	Green Ash Fraxinus pennsylvanica	1059	34.5	Cottonwood Populus deitoides	5710	0	Elm Olmas sp.	5877	9	White Pine Pinus strobus			
960 3,2,1	Buckthorn Khamnus cathartica	1060	5.5	Silver Maple Acer Saccharinum	5711	16,3	Silver Maple Acer saccharinum	5878	24	Silver Maple Acer saccharinum			11 ·····
961 4	Redbud Cercis canadensis	1061	3.5	Boxelder Acer negundo	5712	5	Boxelder Acer negundo	5880	31	Bur Oak Quercus macrocarpa			
964 13	Mulberry Morus sp.	1062	7	Mulberry Morus Alba	5713	7	Boxelder Acer negundo	5881	6	Boxelder Acer negundo			
965 7,4	Mulberry Morus sp.	1063	4.5	Black Walnut Juglans Nigra L.	5714	11,3	Boxelder Acer negundo	5886	32	White Oak Quercus alba			
966 19	Cottonwood Populus deltoides	1064	6.5	Hackberry Celtis	5719	9	Boxelder Acer negundo	5890	5	Boxelder Acer negundo			
967 14	Cottonwood Populus deltoides	1065	10	Boxelder Acer negundo	5720	13	Boxelder Acer negundo	5891	6	Boxelder Acer negundo			
968 5	Boxelder Acer negundo	1067	24	Black Walnut Juglans Nigra L.	5726	6	Boxelder Acer negundo	5892	4	Boxelder Acer negundo			
969 4	Boxelder Acer negundo	1068	7	Elm Ulmas sp.	5727	4	Boxelder Acer negundo	5897	5,4	Boxelder Acer negundo			
971 4	Buckthorn Rhamnus cathartica	1069	17	Boxelder Acer negundo	5728	4,1	Buckthorn Rhamnus cathartica	5899	25	Red Oak Quercus rubra			
972 4	Buckthorn Rhamnus cathartica	1073	11,13.5	Maple Acer	5729	14	Boxelder Acer negundo	5901	4	Boxelder Acer negundo			
973 5	Buckthorn Rhamnus cathartica	1074	13.5,20	Maple Acer	5730	6	Boxelder Acer negundo	5902	6	Boxelder Acer negundo			
974 17	Mulberry Morus sp.	1075	19	Maple Acer	5731	8	Boxelder Acer negundo	5935	4	Boxelder Acer negundo			
975 6	Boxelder Acer negundo	1076	8	Crabapple maius sylvestris	5732	4	Boxelder Acer negundo	5936	4	White Pine Pinus strobus			
977 5	Boxelder Acer negundo	1077	6	Blue Spruce Picea pungens	5733	11	Boxelder Acer negundo	5937	5,2	White Cedar Thuja occidentalis			
978 25	Cottonwood Populus deltoides	1078	12.5	Black Cherry Prunus serotina	5734	8,2	Mulberry Morus sp.	5938	26,26	Cottonwood Populus deltoides			
979 11	Boxelder Acer negundo	1080	21	Green Ash Fraxinus pennsylvanica	5742	7	Boxelder Acer negundo	5939	14	Willow Salix sp.			
981 4	Buckthorn Rhamnus cathartica	1086	21	White Spruce Picea glauca	5743	8	Boxelder Acer negundo	5940	4	Hackberry Celtis occidentalis			
982 4	Buckthorn Rhamnus cathartica	1087	5	Boxelder Acer negundo	5744	18	Boxelder Acer negundo	5941	6	Basswood Tilia americana			
983 3,1,1,1	Buckthorn Rhamnus cathartica	1088	4	Boxelder Acer negundo	5745	12	Mulberry Morus sp.	5942	13	Mulberry Morus sp.			
984 4	Silver Maple Acer saccharinum	1089	4	Mulberry Morus Alba	5746	7,7,4	Boxelder Acer negundo	5943	8,5	Mulberry Morus sp.			
985 4,2	Boxelder Acer negundo	1097	4.5	Blue Spruce Picea pungens	5747	15	Boxelder Acer negundo	5944	5	Basswood Tilia americana			
986 3,2,2	Buckthorn Rhamnus cathartica	1098	3.5	Blue Spruce Picea pungens	5748	11	Boxelder Acer negundo	5945	16	Walnut Juglans sp.			
989 12	Elm Ulmas sp.	1099	3.5	Boxelder Acer negundo	5749	5	Boxelder Acer negundo	5946	10	Mulberry Morus sp.			
991 4	Buckthorn Rhamnus cathartica	1100	3.5	Green Ash Fraxinus pennsylvanica	5751	12	Boxelder Acer negundo	5947	8	Green Ash Fraxinus pennsylvanica			
992 4,2,1	Buckthorn Rhamnus cathartica	1101	4,3	Arborvitae, Thuja occedentalis	5757	7,2	Boxelder Acer negundo	5948	13	Blue Spruce Picea pungens			
993 4	Boxelder Acer negundo	1102	3.5, 3.5	Arborvitae, Thuja occedentalis	5758	5	Buckthorn Rhamnus cathartica	5949	13	White Spruce Picea glauca			
994 6	Elm Ulmas sp.	1103	4.5	Blue Spruce Picea pungens	5759	4	Boxelder Acer negundo	5950	4	Mulberry Morus sp.			
995 14	Elm Ulmas sp.	1104	3.5	Blue Spruce Picea pungens	5760	5	Walnut Juglans sp.	5951	21	Boxelder Acer negundo			
996 34	Willow Salix sp.	1105	3.5	Blue Spruce Picea pungens	5765	4,2	Buckthorn Rhamnus cathartica	5952	5	White Spruce Picea glauca			
997 5,3	Buckthorn Rhamnus cathartica	1106	3,5	Mulberry Morus Alba	5766	5	Boxelder Acer negundo	5953	7	Green Ash Fraxinus pennsylvanica			
998 8	Mulberry Morus sp.	5627	6	Mulberry Morus sp.	5769	6	Boxelder Acer negundo	5954	15	White Spruce Picea glauca			
1001 5.5	Elm Ulmas sp.	5628	27	Willow Salix sp.	5775	13	Boxelder Acer negundo	5955	18	Mulberry Morus sp.			
1006 13	Boxelder Acer negundo	5631	7	Mulberry Morus sp.	5780	4,4	Buckthorn Rhamnus cathartica	5956	11	Black Locust Robina pseudoacacia			
1007 5	Maple Acer	5632	5	Walnut Juglans sp.	5781	11	Boxelder Acer negundo	5957	13,8	Boxelder Acer negundo			
1008 5.5	Buckthorn Rhamnus Cathartica L.	5633	14,10	Boxelder Acer negundo	5782	7	Boxelder Acer negundo	5958	4	Boxelder Acer negundo			
1010 10.5	Elm Ulmas sp.	5638	11	Green Ash Fraxinus pennsylvanica	5790	12	Boxelder Acer negundo	5959	4	Mulberry Morus sp.			
1011 9.5	Maple Acer	0.055			5791	9	Boxelder Acer negundo	5960	17	Elm Ulmas sp.			
1012 3	Japanese Lilac Syringa reticulata				5792	5	Black Cherry Prunus serotina	5961	13	Boxelder Acer negundo			
1013 3	Pear				5802	10	Black Cherry Prunus serotina	5962	6	Mulberry Morus sp.			
1014 2	Ginkgo biloha	-			5805	20	Boxelder Acer negundo	5963	6.5	Mulberry Morus sp.			
1016 7.5	White Spruce Picea glauca				5809	8	Boxelder Acer negundo	5964	24	Elm Ulmas so	1 - 1		
1017 11	White Spruce Pices glauca				5812	6	Boxelder Acer negundo	5965	27	Walnut luglans so			
1019 20	Black Walnut luglans Nigra I				5916	7	Boxelder Acer negundo	5965	89	Black locust Robina pseudoacacia			
1010 20	brack warnat augrans Nigra L				2010	/	boxerder Acer negando	3900	0,0	black boost Robina pseudoacacia			
NO. DATE	REVISION		BY		HITECTURE SURVEYIN	١G	MENDOTA GRASSMAN GREENV						PROJECT NO.
BY: Init .	· · · ·			FUNDING PLANNI 1702 Pankratz St	NG ENVIRONMENTAI Madison, WI 53704		CITY OF MADIS	ON		TRI		L PLAN	00373112
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ROJECT DATE

(608) 242-7779 www.msa-ps.com

CITY OF MADISON LOCATION







STRUCTURE ESTIMATED QUANTITIES

	ITEM NU MBER	BID ITEM	UNIT	TOTAL
	20101	EXCAVATI ON CUT	CY	2600
	20204	SELECT FILL	TON	490
	20235	HEAVY RIPRAP - GLACIAL FIELD STONE	CY	130
	20241	RIPRAP FILTER FABRIC, TYPE HR	SY	215
	30141	TYPE A SLURRY	CY	235
	50501	PRECAST REINFORCED CONCRETE BOX CULVERT, 10 FT X 4 FT	LF	320
: * *	50511	BOX CULVERT WING WALLS, B-13-0900, OUTLET END	EA	1
\Diamond	90001	STORM CONTROL PLAN AND I MPLEMENTATI ON	LS	1
	90003	REMOVE EXISTING TWIN 48" PIPES (CAMELOT)	EA	1
	90005	TEMPORARY SHORING B-13-0900	SF	225
	90006	CULVERT WING WALL RAILINGS	LF	106
	90007	BOX CULVERT WING WALLS, B-13-0900, INLET END	EA	1

INCLUDES CAST-IN PLACE HEADER, WINGWALLS, APRON, CUTOFF WALL, AND ALL INCLUDED REINFORCING AND ADHESIVE ANCHOR CONNECTIONS AS SHOWN ON STANDARD DETAIL DRAWINGS 5.5.1A AND 5.5.1B. EACH UNIT FOR THE "BOX CULVERT WINGWALL" ITEM IS QUANTIFIED AS THE TOTAL OF ALL ELEMENTS NECESSARY TO CONSTRUCT THE OUTLET END IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS.

- ▲ INCLUDES CAST-IN PLACE HEADER, WINGWALLS, APRON, CUTOFF WALL, AND ALL INCLUDED REINFORCING AND ADHESIVE ANCHOR CONNECTIONS AS SHOWN ON THE PLANS, EACH UNIT FOR THE "BOX CULVERT WINGWALL" ITEM IS QUANTIFIED AS THE TOTAL OF ALL ELEMENTS NECESSARY TO CONSTRUCT THE INLET END IN ACCORDANCE WITH DETAILS PROVIDED BY THE CITY OF MADISON FOR WINGS 1 & 4 AND INLET APRON.
- a temporary water diversion shall be provided to establish dry conditions during construction of the box culverts.



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION REGARDING PROPOSED UTILITY LOCATIONS.

THIS STRUCTURE WILL REPLACE EXISTING TWIN 48" STEEL PIPE CULVERTS WITH CONCRETE HEADWALLS AND WINGS.

REMOVAL OF THE EXISTING STRUCTURE WILL BE PAID FOR UNDER (90003) BID ITEM "REMOVE EXISTING TWIN 48" PIPES (CAMELOT)". THE UPPER LIMITS OF "EXCAVATION CUT" SHALL BE THE EXISTING GROUND LINE.

USING GPS TECHNOLOGY.

CONSTRUCT STRUCTURE IN STAGES CONFORMING TO THE TRAFFIC STAGING PLAN.

STAGING FOR REMOVAL OF THE EXISTING STRUCTURE AND THE TEMPORARY WATER DIVERSION IS TO BE COORDINATED AND DETERMINED BY THE CONTRACTOR.

AND WISDOT STANDARD DETAIL DRAWING (SDD) 12A3.

THE CENTER OF STORM SEWER PENETRATIONS SHALL BE LOCATED A MINIMUM OF 2'-6" FROM BARREL SECTION JOINTS. ADJUST LENGTH OF PRECAST BARREL SECTIONS TO ACCOMODATE STORM SEWER PENETRATIONS.

PRECAST CONCRETE ELEMENTS SHALL BE PROVIDED WITH SUITABLE LIFTING DEVICES FOR HANDLING AND PLACEMENT OF THE ELEMENTS. NOT MORE THAN FOUR (4) HOLES MAY BE CAST, DRILLED OR OTHERWISE NEATLY MADE IN THE SHELL OF EACH PIECE OF BOX SECTION FOR HANDLING. THE HOLES SHALL BE TAPERED UNLESS DRILLED. HOLES SHALL BE FILLED WITH PORTLAND CEMENT MORTAR EXCEPT TAPERED HOLES MAY BE FILLED WITH CONCRETE PLUGS SECURED WITH PORTLAND CEMENT MORTAR OR OTHER APPROVED ADHESIVE.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

MEMBER THICKNESSES SHOWN ON THIS PLAN ARE BASED ON ENGINEERING JUDGEMENT. CONTRACTOR SHALL HAVE A REGISTERED ENGINEER DESIGN THE PRECAST BOX CULVERTS AND PROVIDE SEALED DRWINGS TO THE CITY OF MADISON FOR APPROVAL. IF MEMBER THICKNESSES SHOWN ON THIS PLAN REQUIRE MODIFICATION, ADJUST WINGWALL, HEADWALL, APRON, AND REINFORCEMENT DIMENSIONS AS NECESSARY.

DETAILS FOR MATERIALS, FABRICATION, CONSTRUCTION, AND DESIGN OF PRECAST BOX CULVERTS NOT SHOWN OR STATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT ASTM SPECIFICATION, C1577; AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; EXCEPT THAT THE CONCRETE MIXTURE SHALL CONTAIN NOT LESS THAN 565 LBS. OF CEMENTITIOUS MATERIALS PER CUBIC YARD.

THE DESIGN OF PRECAST BOX CULVERTS WITH ALL FILL HEIGHTS SHALL BE AS STATED IN ASTM C1577.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 88 (1991 ADJUSTED), AND WERE ESTABLISHED AT THE SITE

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE WISDOT STANDARD SPECIFICATIONS

THE JOINT ON THE BOTTOM OF THE CULVERT AND THE SIDES OF THE CULVERT FROM THE BOTTOM TO A POINT 1'-O" FROM THE CEILING SHALL BE SEALED WITH A PREFORMED MASTIC. MASTIC MUST CONFORM TO AASHTO MATERIALS. SPECIFICATION MI98, TYPE B. A 2'-O" STRIP OF GEOTEXTILE TYPE OF DF SCHEDULE A SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE CULVERT. THE GEOTEXTILE SHALL CONFORM TO WISDOT STANDARD SPECIFICATION 645.22.4. (FABIC NOT REQUIRED OVER INSIDE WALL

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTIES.

DETAILS OF CONSTRUTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE CITY OF MADISON STANDARD SPECIFICATIONS

No.	Date	Rev	ision		Ву	
(Gy	ENGINEERING ARCHITECTURE SURVEYING FUNDING PLANNING ENVIRONMENTAL 1702 PANKRAT2 STREET., MADISON WI 53704 (608) 242-777 www.rsa-ps.com 0 KiA Professional Serves. Inc.					
	STRUCTURE B-13-0900					
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STRUCTURE ESTIMATED QUANTITIES

	ITEM NUMBER	BID ITEM	UNIT	TOTAL
	20101	EXCAVATION CUT	CY	6900
	20204	SELECT FILL	TON	1310
	20235	HEAVY RIPRAP - GLACIAL FIELD STONE	CY	82
	20241	RIPRAP FILTER FABRIC, TYPE HR	SY	142
	50501	PRECAST REINFORCED CONCRETE BOX CULVERT, 12 FT X 5 FT	LF	164
***	50511	BOX CULVERT WINGWALLS, C-13-2088	EA	2
\Diamond	90001	STORM CONTROL PLAN AND IMPLEMENTATION	LS	1
	90002	REMOVE EXISTING STRUCTURE C-13-2044	EA	1
	90004	TEMPORARY SHORING C-13-2088	SF	2600
	90006	CULVERT WINGWALL RAILINGS	LF	86

*** INCLUDES CAST-IN-PLACE HEADER, WINGWALLS, APRON, CUTOFF WALL, AND ALL INCLUDED REINFORCING AND ADHESIVE ANCHOR CONNECTIONS AS SHOWN ON STANDARD DETAIL DRAWINGS 5.5.1A AND 5.5.1B. EACH UNIT FOR THE "BOX CULVERT WINGWALL" ITEM IS OUANTIFIED AS THE TOTAL OF ALL ELEMENTS NECESSARY TO CONSTRUCT THE INLET END OR OUTLET END IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS.

 \Leftrightarrow a temporary water diversion shall be provided to establish dry conditions during construction of the box culverts.





GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION REGARDING PROPOSED UTILITY LOCATIONS.

REMOVAL OF THE EXISTING STRUCTURE WILL BE PAID FOR UNDER (90002) BID ITEM "REMOVE EXISTING STRUCTURE C-13-2044" THE UPPER LIMITS OF "EXCAVATION CUT" SHALL BE THE EXISTING GROUND LINE.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 88 (1991 ADJUSTED), AND WERE ESTABLISHED AT THE SITE USING GPS TECHNOLOGY.

CONSTRUCT STRUCTURE IN STAGES CONFORMING TO THE TRAFFIC STAGING PLAN.

STAGING FOR REMOVAL OF THE EXISTING STRUCTURE AND THE TEMPORARY WATER DIVERSION IS TO BE COORDINATED AND DETERMINED BY THE CONTRACTOR.

AND WISDOT STANDARD DETAIL DRAWING (SDD) 12A3.

THE CENTER OF STORM SEWER PENETRATIONS SHALL BE LOCATED A MINIMUM OF 2'-6" FROM BARREL SECTION JOINTS. ADJUST LENGTH OF PRECAST BARREL SECTIONS TO ACCOMODATE STORM SEWER PENETRATIONS.

PRECAST CONCRETE ELEMENTS SHALL BE PROVIDED WITH SUITABLE LIFTING DEVICES FOR HANDLING AND PLACEMENT OF THE ELEMENTS. NOT MORE THAN FOUR (4) HOLES MAY BE CAST. DRILLED OR OTHERWISE NEATLY MADE IN THE SHELL OF EACH PIECE OF BOX SECTION FOR HANDLING. THE HOLES SHALL BE TAPERED UNLESS DRILLED. HOLES SHALL BE FILLED WITH PORTLAND CEMENT MORTAR EXCEPT TAPERED HOLES MAY BE FILLED WITH CONCRETE PLUG SECURED WITH PORTLAND CEMENT MORTAR OR OTHER APPROVED ADHESIVE.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

EXISTING RETAINING WALL STRUCTURE R-13-188 SHALL REMAIN AND ITS MSE REINFORCING STRAPS SHALL NOT NOT BE DISTURBED OR DAMAGED DURING CONSTRUCTION OF STRUCTURE C-13-2088.

MEMBER THICKNESSES SHOWN ON THIS PLAN ARE BASED ON ENGINEERING JUDGEMENT. CONTRACTOR SHALL HAVE A REGISTERED ENGINEER DESIGN THE PRECAST BOX CULVERTS AND PROVIDE SEALED DRAWINGS TO THE CITY OF MADISON FOR APPROVAL. IF MEMBER THICKNESSES SHOWN ON THIS PLAN REQUIRE MODIFICATION, ADJUST WINGWALL, HEADWALL, APRON, AND REINFORCEMENT DIMENSIONS AS NECESSARY.

DETAILS FOR MATERIALS, FABRICATION, CONSTRUCTION, AND DESIGN OF PRECAST BOX CULVERTS NOT SHOWN OR STATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT ASTM SPECIFICATION, C1577; AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; EXCEPT THAT THE CONCRETE MIXTURE SHALL CONTAIN NOT LESS THAN 565 LBS. OF CEMENTIOUS MATERIALS PER CUBIC YARD.

THE DESIGN OF PRECAST BOX CULVERTS WITH ALL FILL HEIGHTS SHALL BE AS STATED IN ASTM C1577.

THE JOINT ON THE BOTTOM OF THE CULVERT AND THE SIDES OF THE CULVERT FROM THE BOTTOM TO A POINT 1'-O" FROM THE CEILING SHALL BE BE SEALED WITH A PREFORMED MASTIC. MASTIC MUST CONFORM TO AASHTO MATERIALS. SPECIFICATION M198, TYPE B. A 2'-O" STRIP OF GEOTEXTILE TYPE DF SCHEDULE A SHALL BE PLACED OVER THE JOINTS ON THE TOP AND SIDES OF THE CULVERT. THE GEOTEXTILE SHALL CONFORM TO WISDOT STANDARD SPECIFICATION 645.22.4 (FABRIC NOT REQUIRED OVER INSIDE WALL JOINTS OF MULTICELL INSTALLATION.)

*4 EPOXY COATED DEFORMED BARS TO BE PLACED IN END SECTIONS DURING FABRICATION OF THE BOX CULVERT. ALL DOWEL BARS SHALL BE INCIDENTAL TO RCBC ITEM 50501.

▲ ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH "SELECT FILL" TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE BOX.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTIES. "SELECT FILL" REQUIRED ON THE BOX CULVERT SIDES AND BEHIND APRON WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO "EXCAVATION CUT"

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE CITY OF MADISON STANDARD SPECIFICATIONS ARTICLE 505.

THIS STRUCTURE WILL REPLACE EXISTING STRUCTURE C-13-2044, A 6'-O" X 10'-O" REINFORCED CONCRETE BOX CULVERT

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE WISDOT STANDARD SPECIFICATIONS

No.	Date	Revision		Ву			
ENGINEERING ARCHITECTURE SURVEYING FUNDING PLANNING ENVIRONMENTAL 1702 PANKRATZ STREET., MADISON WI 53704 (508) 242-7779 www.msa-ps.com 0 MSA Professional Services, Irc.							
	STRUCTURE C-13-2088						
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ETLAND	AREAS OUTSIDE OF GRADING EXTENTS SHALL NOT BE DISTURBED BID ITEM #90008 FOR GREENWAY CONSTRUCTION PLAN. BID ITEM #90010 FOR GROUNDWATER CONTROL/SITE	
WATERI FER TO TAILS.	NG DETAILS. BID ITEM #90028 FOR MAINTENANCE AND REPAIR OF HAUL ROADS	
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20		PROJECT NO.
	PLAN & PROFILE - GREENWAY	00373112 SHEET PP20

PLAN & PROFILE - TAYCHOPERA SAS ACCESS PATH	PROJECT NO. 00373112
	SHEET PP21

9	880	NOTE: SEE SHEET CS21 UNNAMED ROW SA ROAD CROSS SECTIONS FOR DETAIL	S ACCESS S
4 1,86% 0 S ^{lo} VPI = 603	[%] 876 ^{3+00.20}		
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AN & PRC	FILE -	UNNAMED ACCESS ROAD SAS ACCESS PATH	00373112 SHEET PP22

- SAS SKID STEER ACCESS ROAD

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ENGINEERING ARCHITECTURE SURVEYING FUNDING PLANNING ENVIRONMENTAL 1702 Pankratz St Madison, WI 53704 (608) 242-7279, www.msa.com	MENDOTA GRASSMAN GREENWAY IMPROVEMENTS CITY OF MADISON			
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NOTE: WETLAND AREAS OUTSIDE OF GRADING EXTENTS SHALL NOT BE DISTURBED

NOTE: SEE SHEET CS22 BLANCHARD ST SAS ACCESS ROAD CROSS SECTIONS FOR DETAILS

PLAN & PROFILE - BLANCHARD ST SAS ACCESS PATH	00373112
	SHEET PP23

		NO.	DATE	REVISION	BY	_			
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	DESIGNED BY: Init			·		(0) MSA	1702 Pankratz St Madison, WI 53704	CITY OF MADISON	
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MENDOTA GRASSMAN GREENWAY IMPROVEMENTS CITY OF MADISON LOCATION

00373112 CAMELOT DR. UTILITY PROFILES

SHEET PP29

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MENDOTA GRASSMAN GREENWAY IMPROVEMENTS CITY OF MADISON LOCATION

- 1. THIS PLAN SHOWS THE EXTENT OF RESTORATION REQUIRED FOR THE CULVERT AND OTHER UTILITY INSTALLATIONS. ADDITIONAL RESTORATION WORK MAY BE REQUIRED AS PART OF THE TRAFFIC CONTROL REQUIREMENTS FOR CONSTRUCTION. REFER TO TRAFFIC CONTROL SHEETS FOR ADDITIONAL DETAILS AS WELL AS CONSTRUCTION PHASING.
- REFER TO BID ITEM #90013 FOR UTILITY SUPPORT AND PROTECTION DETAILS

UNIVERSITY AVE RESTORATION PLAN AND PROFILE

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	HIGHOUSS ISTORM STRUCTURE REMOVAUS INO. SHEET SURTON LOCATION (DPERET) Id NO. TWE 2 0L-CAMELOT TR. DEMOLITION PLAN DOMASTIGERM APRON CLUSERT APRON CLUSERT APRON 3 0L-CAMELOT TR. DEMOLITION PLAN DOMASTIGERM APRON CLUSERT APRON AND OND PSTRUCTURE 4 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-6 RT 3K-81 ODMALE INLET STRUCTURE 4 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-5 UT-Sta-2 ODMALE INLET STRUCTURE 5 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-5 UT-Sta-2 ODMALE INLET STRUCTURE 6 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-5 UT-Sta-2 ODMALE INLET STRUCTURE 6 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-5 UT-Sta-2 THE'Y' INLET 7 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-5 UT-Sta-2 THE'Y' INLET 7 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-75 UT-Sta-2 THE'Y' INLET 7 0L-CAMELOT TR. DEMOLITION PLAN Sta-443-12 RT 323.1 THE'Y' INLET 7 0L-CA											
STRUE NO.	SHET		JOFINE	690.	7895							
16-1	00-CAVE OT DR. DENOUTION PLAN	DOMAGER	1000		CULVERT APPON							
165-2	00-CAVELOT DR. DENOUTION PUAN	UPSTREAM	105-29CN		OUSSERT MARCIN AND DROP STRUCTURE							
185-3	DU-CAMELOT DR. DEMOUTION PLAN	52-48.52	0.2.2		DOUBLE INLET STRUCTURE							
164	OU- CAVELOT DR. DENOUTION PLAN	52-40-65	E-33	1.1.1.1	DOUBLE INLET STRUCTURE							
185-5	00-CANELOT DR. DEMOL/TION PLAN	52494.75	17-16-02		TIPE 'W' INLET							
185-6	01-CAMELOT TR. DEMOUTION PLAN	52-62.92	#5-33 R		TIPE "H" INLET							
IRS-7	02 - UNIVERSITY #KE DEMIDUTION PLAN	DOMASTIC	1000		CUMERT APRON							
16-8	D2-UNIVERSITY #XE DEVIDUITION PLAN	UPSTREAM	SI SPACE		CUVERTARON							
125-5	02- UNIVERSITY #XE DEWOUTON PLAN	945.14	0.77.8	45395-335	42" APRON ENOMALL							
16-10	02-UNIVERSITY #XE DEVIDUITON PLAN	9-93.97	0-32.44	1026-09	TIPE "W" INLET							
85	00-UNIVERSITY INE DEVIDUITION PLAN	96.0	5-2-3	N2(5-134	TIPE "H" INLET							
16-0	00 - UNIVERSITY INE DEVIDUITION PLAN	962.95	10-21-34	1026-05	TIPE W INLET							
16-13	PRIS- PLAN & PROFILE - WAINTENANCE PATH CAMELOT OR TO UNIVERSITY ALC.	39-5.8	87-5.00	463,45-015	15" APRON ENDARLL							
香油	PETER AN & PROPE - BLANCHARD STOPS ACCESS AND	700-30.08	15436		12" APRON ENDMALL							

	PROPOSED STORM PRE-REMOVALS													
EHDIAL NO.	REMOVE	REALD/E 10	1574(67)	20153E.04	R057095	242) (1941)	SHEET WHERE REMOVING IS SHOWN							
89-1	16-1	185-2	15	4	OFCIDES	11	D1-CANEL/TIX. SEMIDITION RAN							
89-2	16-1	16-2	15	- 4	OFCIDER	1111	DU-CAMESITION DEVIDUTION PLAN							
89.5	16-1	16-3	34	12	RP	[a]:	D1-CANELOT D4. DEVIDUTION PLAN							
22-1	16-1	25-4	9	12	RP	1.4	TO-CAMESTER, DEVIDUTION PLAN							
89.5	16-5	15-5	34	12	87		D1-CANELOT D4. DEVIDUTION PLAN							
20-6	85-7	16-8	135	5.05	804.01/20	T	12-WARSON ALCORAD, DON PLAN							
88.7	15-5	84-1	-	4	829	1.1	12-WARESTY ALC DEVID, DON PLAN							
89-8	841	15-11	8	12	87	La:	12 - UNIVERSITY ALS DEMOLTION PLAN							
10.0	85-10	51		12	82	1.8.1	12-00/95/14/509/01/00/PJ40							
10.11	845	5年月月15	- 2	34	82	1.8.1	12-080/957/4/£0940.000/PJ48							
10-21	81-2	6-2		12	RCP	1.8	02-000950*4/£0940_0009240							

	PROPOSED SANITARY STRUCTURE REMOVALS													
STRUC. NO.	SHEET	STATION	LOCATION (OFFSET)	ID NO.	TYPE	DEPTH (FT)								
RS-15	D1 - CAMELOT DR. DEMOLITION PLAN	51+25.68	RT-8.54	MH05-201	48" SANITARY SAS	9.54								

	PROPOSED SANITARY PIPE REMOVALS													
REMOVAL REMOVE NO. FROM		REMOVE TO	LGTH (FT)	PIPE SIZE (IN.)	PIPE TYPE	PAID (Y/N)	SHEET WHERE REMOVAL IS SHOWN	NOTES						
RP-12	RP-12 RS-12 SE			18	DI	Y	D1 - CAMELOT DR. DEMOLITION PLAN							
RP-13	RS-12	NW	10	8	DI	N	D1 - CAMELOT DR. DEMOLITION PLAN							
RP-14	RS-12	SW	123	12	DI	Y	D1 - CAMELOT DR. DEMOLITION PLAN							
RP-15	SEE PLANS		80	16	DI	N	D1 - CAMELOT DR. DEMOLITION PLAN							
RP-16	EX-3	EX-4	96	8	LINED VCP	Ν	D2 - UNIVERSITY AVE DEMOLITION PLAN							

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NOTES:

- PIPES REMOVED IN THE SAME TRENCH WHERE PROPOSED PIPES ARE INSTALLED ARE CONSIDERED INCIDENTAL TO PIPE INSTALLATION.
- REMOVAL OF EXISTING CULVERTS, APRONS AND DROP STRUCTURES ARE INCLUDED IN THE PRICE OF THE PROPOSED CULVERTS.

	PROJECT NO. 00373112
FIFE AND STRUCTURE REMOVAL SCHEDULES	SHEET SCH1

		5	PROPOSED STORM STRUC	TURES										
STRUC. NO	SHEET	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	EI.	DEPTH (FT)	NOTES	PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH, E.I.	INLET E.I.	PAY LENGTH (FT)
S-10	PP16- PLAN & PROFILE - GREENWAY	152+98.12	0.00	CULVERT WINGWALL	N/A	851.20 (120" x 48" BOX CULVERT)	N/A		P-10	5-10	5-11	851.20	852.02	160
5-11	PP16- PLAN & PROFILE - GREENWAY	154+76.85	0.00	CULVERT WINGWALL	N/A	852.02 (120" x 48" BOX CULVERT)	N/A		P-11	S-10	S-11	851.20	852.02	160
S-20	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	52+04.77	LT-16.82'	STORM INLET, TYPE H	858.00	854.82 (12" W) 854.72 (EX 12" SE)	3.28	W/R - 3067-7004-V	P-20	S-20	S-21	854.78	855.82	31
5-21	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+82.97	RT-14.81	STORM INLET, TYPE H	858.45	855.78 (12")	2.67	W/R - 3067-7004-V	P-30	5-11	5-30	853.00	853.07	11
S-30	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+37.75	LT-16.10 ⁴	STORM INLET, TYPE H	858.42	853.07 (18" S) 853.07 (18" N)	5.35	W/R - 3067-7004-V	P-31	5-30	S-31	853.07	853.12	10
5-31	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+26.79	LT-15.64°	STORM INLET, TYPE H	858.36	853.12 (18" S) 853.62 (12" SW)	5.26	W/R - 3067-7004-V	P-32	5-31	S-32	853.62	853.94	31
S-32	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+27.32	RT-15.55	STORM INLET, TYPE H	858.22	853.94 (12" NE) 853.94 (12" NW)	4.30	W/R - 3067-7004-V	P-33	5-32	5-33	853.94	854.01	10
5-33	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+18.86	RT-15.907	STORM INLET, TYPE H	858.24	854.01 (12" SE)	4.27	W/R - 3067-7004-V	P-40	S-40	\$-41	863.80	864,04	23
S-40	PP25 - PLAN & PROFILE - MAINTENANCE PATH CAMELOT DR. TO UNIVERSITY AVE	209+10.92	LT-18.05'	15" END SECTION	865.32	863.80 (15" NW)	N/A		P-50	S-50	S-51	862.95	863.10	23
5-41	PP25 - PLAN & PROFILE - MAINTENANCE PATH CAMELOT DR. TO UNIVERSITY AVE	209+14.91	RT-5.00/	36" STORM SAS	865.48	864.04 (15") 864.04 (EX. 15")	2.44	W/R - 3067-7004-V	P-60	5-60	S-61	863.29	863,74	164
S-50	PP23 - PLAN & PROFILE - BLANCHARD ST SAS ACCESS PATH	700+11.61	RT-14.20	12" END SECTION	864.18	862.95 (12")	N/A		P-70	\$-70	EX-1	863.95	867.95	65
\$-51	PP23 - PLAN & PROFILE - BLANCHARD ST SAS ACCESS PATH	700+30.08	RT-9.94'	36" STORM SAS	865.35	863.10 (12" NW) 863.10 (12" SE)	2.25	W/R - 3067-7004-V	P-71	EK-1	5-71	876.22	876.45	8
5-60	PP18- PLAN & PROFILE - GREENWAY	164+39.45	0.00	CULVERT WINGWALL	N/A	853.29 (144" x 60" BOX CULVERT)	N/A		P-72	5-71	5-72	876.45	876.84	22
5-61	PP18- PLAN & PROFILE - GREENWAY	166+25.85	0.00	CULVERT WINGWALL	N/A	863.74 (144" x 60" BOX CULVERT)	N/A		P-80	NA	NA	876.04	876.82	94
5-70	PP3I-UNIVERSITY AVE RESTORATION PLAN AND PROFILE	0+73.06	LT-92.56°	42" END SECTION	867.91	863.95 (42")	N/A		P-90	EK-2	S-90	875.47	875.67	8
5-71	PP3I-UNIVERSITY AVE RESTORATION PLAN AND PROFILE	0+64.85	LT-32.27	STORM INLET, TYPE H	881.45	876.45 (12" NW) 876.45 (12" SE)	5.00	W/R - 3067-7004-V	P-100	S-100	S-101	871.60	871.85	31
5-72	PP31- UNIVERSITY AVE RESTORATION PLAN AND PROFILE	0+87.26	LT-32.23	STORM INLET, TYPE H	881.64	876.84 (12" NW)	4.80	W/R - 3067-7004-V						
S-90	PP31- UNIVERSITY AVE RESTORATION PLAN AND PROFILE	0+63.35	RT-32.21'	STORM INLET, TYPE H	881.15	875.67 (12" NW)	5.48	W/R - 3067-7004-V						
5-100	PP26 - PLAN & PROFILE - MAINTENANCE PATH UNIVERSITY AVE TO JULIA ST	304+86.26	RT-17.12'	15" END SECTION	873.16	871.60 (15")	N/A							
S-101	PP26 - PLAN & PROFILE - MAINTENANCE PATH UNIVERSITY AVE TO JULIA ST	304+99.16	LT-11.36'	15" END SECTION	873.37	871.85(15")	N/A							

PROPOSED SANITARY STRUCTURES								
STRUC. NO	SHEET	STATION	LOCATION (OFFSET)	ТҮРЕ	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
SAS-10	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	52+27.78	LT-31.43'	72" SANITARY SAS	857.27	847.99 (EX 16" SE) 848.00 (16" C900 NW)	9.28	
SAS-11	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+63.67	LT-63.74'	72" SANITARY SAS	858.43	848.18 (16" C900 SE) 848.18 (EX 16" NW) 848.51 (8" PVC W)	10.25	
SAS-12	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+13.71	RT-7.72'	48" SANITARY SAS	858.13	849.43 (8" PVC E) 850.03 (EX 8" NW)	8.70	
SAS-20	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+82.93	RT-2.08'	72" SANITARY SAS	858.22	848.25 (EX 18" SE) 848.75 (12" PVC W)	9.97	
SAS-21	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+64.63	RT-22.40'	72" FLOW MONITORING SAS	858.06	848.86 (12" PVC E) 848.96 (12" PVC W)	9.10	SEE SHEET G1 FOR DETAIL
SAS-22	PP28 - CAMELOT DR. RESTORATION PLAN AND PROFILE	51+22.30	RT-133.61'	72" SANITARY SAS	856.80	849.45 (12" PVC E) 849.55 (EX 12" PVC SW)	7.35	

PROPOSED SAMETARY PIPES									
ROM (DISTM	10 (JP57M)	DISCH EL	WETEL	202 201574	PPEUGTNETS	\$42FE (%)	PPESEE[N].	185	1075
\$45-10	\$45-11	58.X	85.18	72	55	0.276	16	PVC.0900	WITH PIPE CASING UNDER CLUDER
\$45-11	\$45-12	12.50	85.5	8	75	1386	8	PIC	
S85-20	S85-21	88.5	34.36	27	21	0.586	p	PVC	
545-21	545-22	92 X	88.5	135	13	045	12	PVC	
Ek-3	BI-4	87.K	88.11	96	2	6.25%	8	PVC	WTHPPEDSREUKERDUCER

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PROPOSED STORM PIPES						
PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE (IN).	TYPE	NOTES		
160	0.51%	120 x 48	CONCRETE BOX CULVERT			
160	0.51%	120 x 48	CONCRETE BOX CULVERT			
31	3.35%	12	TYPE I STORM			
9	0.76%	18	TYPE I STORM			
6	0.87%	18	TYPE I STORM			
27	1.18%	12	TYPE I STORM			
6	1.17%	12	TYPE I STORM			
22	1.09%	15	TYPE I STORM			
22	0.68%	12	TYPE I STORM			
164	0.27%	144 x 60	CONCRETE BOX CULVERT			
61	6.56%	42	TYPE I STORM			
5	4.60%	12	TYPE I STORM			
19	2.00%	12	TYPE I STORM			
94	0.83%	24	TYPE I STORM			
3	6.67%	12	TYPE I STORM			
26	0.96%	.15	TYPEISTORM			

NOTES:

PAY LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. PIPE SLOPE CALCULATED USING PIPE LENGTH.

2. ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; SAS = SEWER ACCESS STRUCTURE; TOC = TOP OF CASTING

3. APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

TOP OF CASTING (TOC) GRADE GIVEN IS THE BACK OF CURB FOR STRUCTURES WITHIN THE TERRACE ROADS, AND THE FINISHED GRADE FOR STRUCTURES IN GREEN SPACES.

5. ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

6. SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

	00373112
FROFOSED FIFE AND STRUCTURE SCHEDULES	SHEET SCH2

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EROSION CONTROL AND RESTORATION PLAN