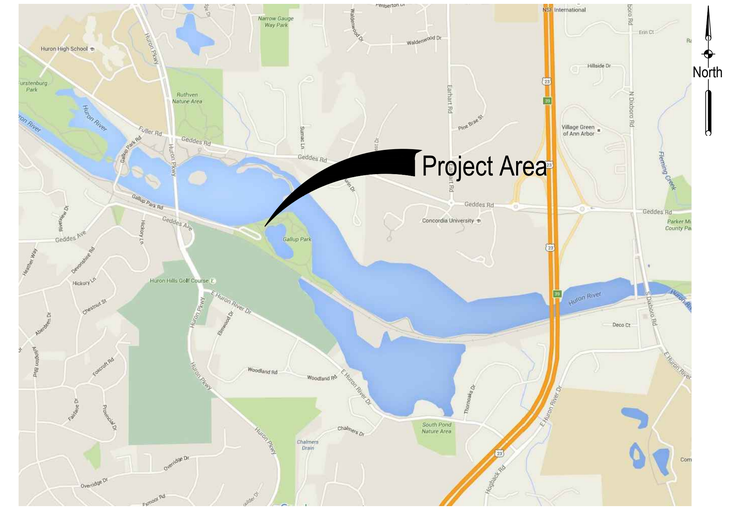
ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Gallup Park
3000 Fuller Rd.
Ann Arbor, MI

BID PLANS

October 14, 2016
SGJJR Project Number: 20678.000



PROJECT VICINITY MAP
NOT TO SCALE

DRAWING INDEX

V1.0 TOPOGRAPHIC SURVEY
V1.1 TOPOGRAPHIC SURVEY
V1.2 TOPOGRAPHIC SURVEY
V1.3 TREE INVENTORY
L1.0 - SITE REMOVALS AND SESC PLAN
L1.1 - SESC DETAILS AND NOTES
L2.0 - LAYOUT AND MATERIALS PLAN
L2.1 - LAYOUT AND MATERIALS ENLARGEMENT PLAN
L2.2 - PLAY SURFACE LAYOUT
L3.0 - GRADING AND DRAINAGE PLAN
L3.1 - GRADING ENLARGEMENT PLAN 1
L3.2 - GRADING ENLARGEMENT PLAN 2
L3.3 - GRADING ENLARGEMENT PLAN 3
L3.4 - UTILITY PROFILES AND DETAILS
L4.0 - SITE DETAILS 1
L4.1 - SITE DETAILS 2
L4.2 - SITE DETAILS 3
L4.3 - SITE DETAILS 4
L4.4 - SITE DETAILS 5
L4.5 - SITE WALL DETAILS AND ELEVATIONS 1
L4.6 - SITE WALL DETAILS AND ELEVATIONS 2
L5.0 - PLANTING PLAN
L5.1 - LANDSCAPE DETAILS

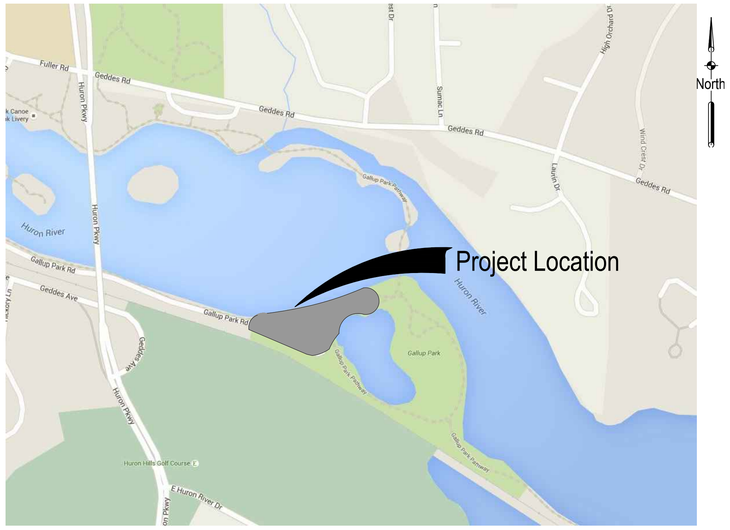
Prepared for:

PARKS AND RECREATION SERVICES
301 East Huron
Ann Arbor, MI 48104

Prepared by:

SMITHGROUPJJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com



PROJECT LOCATION MAP
NOT TO SCALE

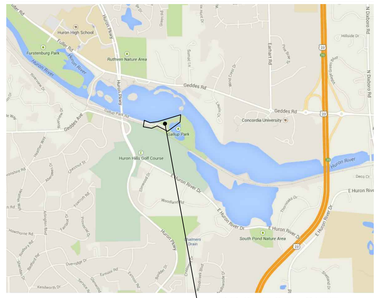
FILE:P:\2067878000\CAD\C\Sheet\2067878-COVER-SH1.dwg USER:jpoung DATE:Oct. 14 2016 TIME: 12:36 pm

TOPOGRAPHIC SURVEY

A PORTION OF GALLUP PARK LYING SOUTH OF THE HURON RIVER, SECTIONS 26 & 35, T2S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

VICINITY SKETCH -
ANN ARBOR, MICHIGAN

NTS



CONTROL POINT TABLE

Point No.	Northing	Easting	Elevation	Description
1	282602.45	13305412.79	754.60	CP SGJJR CAP REBAR
2	282723.95	13305605.30	749.07	CP SGJJR CAP REBAR
3	282806.79	13305868.35	750.44	CP SGJJR CAP REBAR
4	282446.94	13305513.39	755.60	CP PK-MAGNAIL
5	282566.55	13305213.12	751.74	CP PK-MAGNAIL
100	282558.76	13305536.47	751.43	BM BENCHTIE
101	282787.56	13305955.13	752.91	BM BENCHTIE

SURVEY LEGEND

- BENCHMARK
- CONTROL POINT
- + 700.00 EX. SPOT ELEV.
- + TC 701.00 EX. TOP OF CONC. CURB ELEV.
- + GU 700.50 EX. GUTTER ELEV.
- + EM 700.70 EX. EDGE OF METAL
- + CC 700.70 EX. CURB CUT ELEV.
- + TW 703.00 EX. TOP OF WALL ELEV.
- + EW 699.00 EX. EDGE OF WATER
- + BW 702.00 EX. BOTTOM OF WALL ELEV.
- LIGHT POLE
- 122I SQ. CATCH BASIN/CURB INLET
- MEMORIAL PLAQUE OR STONE
- CONCRETE BUMPER BLOCK
- EX. BOLLARD/POST
- WOODEN PARK BENCH
- SIGN
- SIGN - DOUBLE POST
- TREE - DECIDUOUS
- TREE - CONIFEROUS
- TAG 1000 TAGGED TREE (SEE TREE INDEX)
- EX. TOPO CONTOUR
- BUILDING PERIMETER (TYP.)
- EX. BRUSH/ WOODED LIMITS
- EX. STORM SEWER
- EDGE OF WATER

BENCHMARKS

SOURCE BENCHMARK
CITY OF ANN ARBOR, VERTICAL CONTROL POINT, AAGRS 2030, BRASS DISC IN NORTHWESTERLY CONCRETE WING WALL OF HURON PARKWAY BRIDGE OVER HURON RIVER.

NORTHING = 283,675.87
EASTING = 13,304,066.49
ELEVATION = 764.32 FEET (NAVD88)

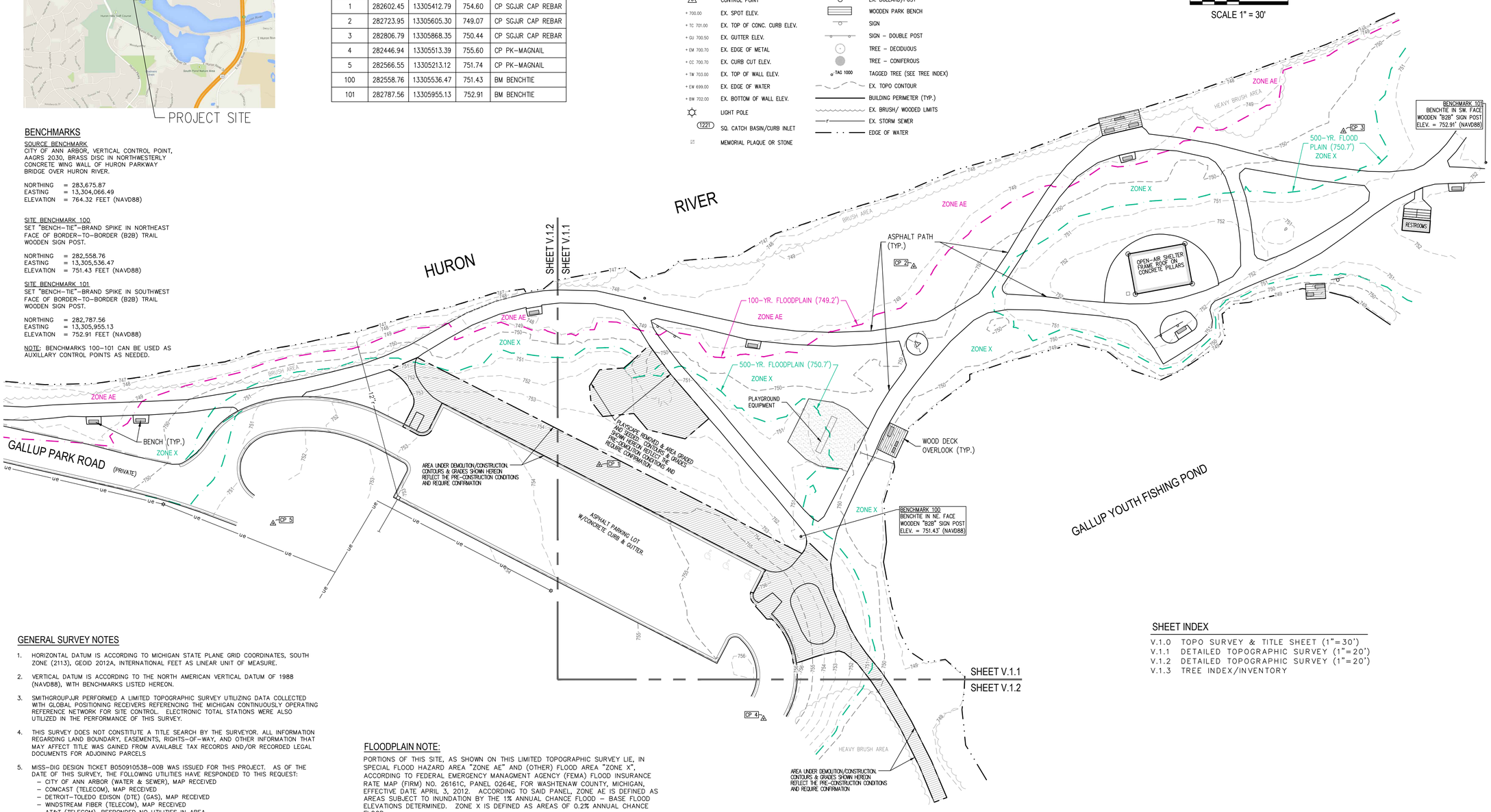
SITE BENCHMARK 100
SET "BENCH-TIE"-BRAND SPIKE IN NORTHEAST FACE OF BORDER-TO-BORDER (B2B) TRAIL WOODEN SIGN POST.

NORTHING = 282,558.76
EASTING = 13,305,536.47
ELEVATION = 751.43 FEET (NAVD88)

SITE BENCHMARK 101
SET "BENCH-TIE"-BRAND SPIKE IN SOUTHWEST FACE OF BORDER-TO-BORDER (B2B) TRAIL WOODEN SIGN POST.

NORTHING = 282,787.56
EASTING = 13,305,955.13
ELEVATION = 752.91 FEET (NAVD88)

NOTE: BENCHMARKS 100-101 CAN BE USED AS AUXILLARY CONTROL POINTS AS NEEDED.



GENERAL SURVEY NOTES

1. HORIZONTAL DATUM IS ACCORDING TO MICHIGAN STATE PLANE GRID COORDINATES, SOUTH ZONE (2113), GEOID 2012A, INTERNATIONAL FEET AS LINEAR UNIT OF MEASURE.
2. VERTICAL DATUM IS ACCORDING TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), WITH BENCHMARKS LISTED HEREON.
3. SMITHGROUPJJR PERFORMED A LIMITED TOPOGRAPHIC SURVEY UTILIZING DATA COLLECTED WITH GLOBAL POSITIONING RECEIVERS REFERENCING THE MICHIGAN CONTINUOUSLY OPERATING REFERENCE NETWORK FOR SITE CONTROL. ELECTRONIC TOTAL STATIONS WERE ALSO UTILIZED IN THE PERFORMANCE OF THIS SURVEY.
4. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION REGARDING LAND BOUNDARY, EASEMENTS, RIGHTS-OF-WAY, AND OTHER INFORMATION THAT MAY AFFECT TITLE WAS GAINED FROM AVAILABLE TAX RECORDS AND/OR RECORDED LEGAL DOCUMENTS FOR ADJOINING PARCELS
5. MISS-DIG DESIGN TICKET B050910538-00B WAS ISSUED FOR THIS PROJECT. AS OF THE DATE OF THIS SURVEY, THE FOLLOWING UTILITIES HAVE RESPONDED TO THIS REQUEST:
   - CITY OF ANN ARBOR (WATER & SEWER), MAP RECEIVED
   - COMCAST (TELECOM), MAP RECEIVED
   - DETROIT-TOLEDO EDISON (DTE) (GAS), MAP RECEIVED
   - WINDSTREAM FIBER (TELECOM), MAP RECEIVED
   - AT&T (TELECOM), RESPONDED NO UTILITIES IN AREA
   - DTE (ELECTRIC), MAP RECEIVED
   - EXTENET (TELECOM), RESPONDED NO UTILITIES IN AREA
6. UNDERGROUND UTILITY LOCATIONS WERE DERIVED FROM ACTUAL MEASUREMENTS ON VISIBLE UTILITIES, MISS DIG FLAGS/MARKINGS, AND/OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS, NOR SHOULD THEY IT BE ASSUMED THAT THEY ARE THE ONLY UNDERGROUND UTILITIES IN THE AREA.
7. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED AND ARE NOT CONSIDERED A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE AND OR DEVELOPMENT OF THIS SITE.
8. ADDITIONAL SPOT ELEVATIONS MAY BE CONTAINED IN THE PROJECT DATABASE, AND ALTHOUGH NOT APPEARING IN THE RECORD PLAN DOCUMENT DUE TO SCALE AND VISIBILITY, WERE UTILIZED IN THE DIGITAL TERRAIN MODEL FOR CREATION OF THE ONE-FOOT CONTOURS. THE ADDITIONAL SPOT ELEVATION DATA IS AVAILABLE FOR FUTURE DESIGN ANALYSIS, BEING LOCATED ON A FROZEN LAYER WITHIN THE PROJECT DATABASE.
9. SITE IS CURRENTLY UNDER CONSTRUCTION. SITE CONDITIONS SHOWN HEREON REFLECT A SITE WALKTHROUGH AND VISUAL INSPECTION ON AUGUST 9, 2016.

FLOODPLAIN NOTE:

PORTIONS OF THIS SITE, AS SHOWN ON THIS LIMITED TOPOGRAPHIC SURVEY LIE, IN SPECIAL FLOOD HAZARD AREA "ZONE AE" AND (OTHER) FLOOD AREA "ZONE X", ACCORDING TO FEDERAL EMERGENCY MANAGMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NO. 26161C, PANEL 0264E, FOR WASHTENAW COUNTY, MICHIGAN, EFFECTIVE DATE APRIL 3, 2012. ACCORDING TO SAID PANEL, ZONE AE IS DEFINED AS AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD - BASE FLOOD ELEVATIONS DETERMINED. ZONE X IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD.

ALTHOUGH SAID PANEL WAS USED AS A GUIDE AND REFERENCE IN LOCATING SAID FLOOD ZONES, THE PLOTTED LOCATIONS OF SAID FLOOD ZONES WERE DETERMINED USING FEMA FLOOD INSURANCE STUDY FOR WASHTENAW COUNTY, MICHIGAN, VOLUMES 26161CV001A & 26161CV002A, EFFECTIVE DATE APRIL 3, 2012. BASE FLOOD ELEVATIONS FOR THIS SURVEY WERE INTERPOLATED AND SCALED FROM THE NEAREST CROSS SECTION LINES USING PROFILE SHEET 15P FOR THE HURON RIVER AS FOLLOWS:

- ZONE AE - BASE FLOOD ELEVATION = 749.2' (AT SOUTHWEST LIMITS OF SURVEY) TO 749.1' (AT NORTHEAST LIMITS OF SURVEY). THE 749.2' CONTOUR LINE HAS BEEN PLOTTED HEREON FOR CONVENIENCE.
- ZONE X - BASE FLOOD ELEVATION 750.7' (AT SOUTHWEST LIMITS OF SURVEY) TO 750.6' (AT NORTHEAST LIMITS OF SURVEY). THE 750.7' CONTOUR LINE HAS BEEN PLOTTED HEREON FOR CONVENIENCE.

THE BALANCE OF AREA SURVEYED LIES IN (OTHER) AREA "ZONE X" (UNSHADED), DEFINED AS AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN. UNSURVEYED PORTIONS OF THE SUBJECT PROPERTY MAY LIE IN OTHER FLOOD ZONES.

SHEET INDEX

V.1.0 TOPO SURVEY & TITLE SHEET (1"=30')
V.1.1 DETAILED TOPOGRAPHIC SURVEY (1"=20')
V.1.2 DETAILED TOPOGRAPHIC SURVEY (1"=20')
V.1.3 TREE INDEX/INVENTORY

CERTIFICATE

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH LOCAL AND STATE JURISDICTIONAL REQUIREMENTS REGULATING MAPPING STANDARDS. THE UNDERSIGNED STATES THAT PROPER FIELD PROCEDURES, INSTRUMENTATION AND ADEQUATE STAFF WERE EMPLOYED TO ACHIEVE THE RESULTS INDICATED HEREIN.

SMITHGROUPJJR, INC.

CHARLES A. LANGOLF, PS 56210
PROFESSIONAL SURVEYOR
STATE OF MICHIGAN
charles.langolf@smithgroupjjr.com

DATE: 8.15.16

STATE OF MICHIGAN CHARLES A. LANGOLF PROFESSIONAL SURVEYOR No. 56210 LICENSED PROFESSIONAL SURVEYOR

GALLUP PARK

GALLUP PARK ROAD
ANN ARBOR, MICHIGAN

Owner:
CITY OF ANN ARBOR, DEPARTMENT OF PARKS & RECREATION

SMITHGROUPJJR
201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
CLIENT ISSUE	0	7/31/2015
UPDATE SURVEY TO REFLECT CONSTRUCTION ACTIVITY	1	8/15/2016

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEY PLAN

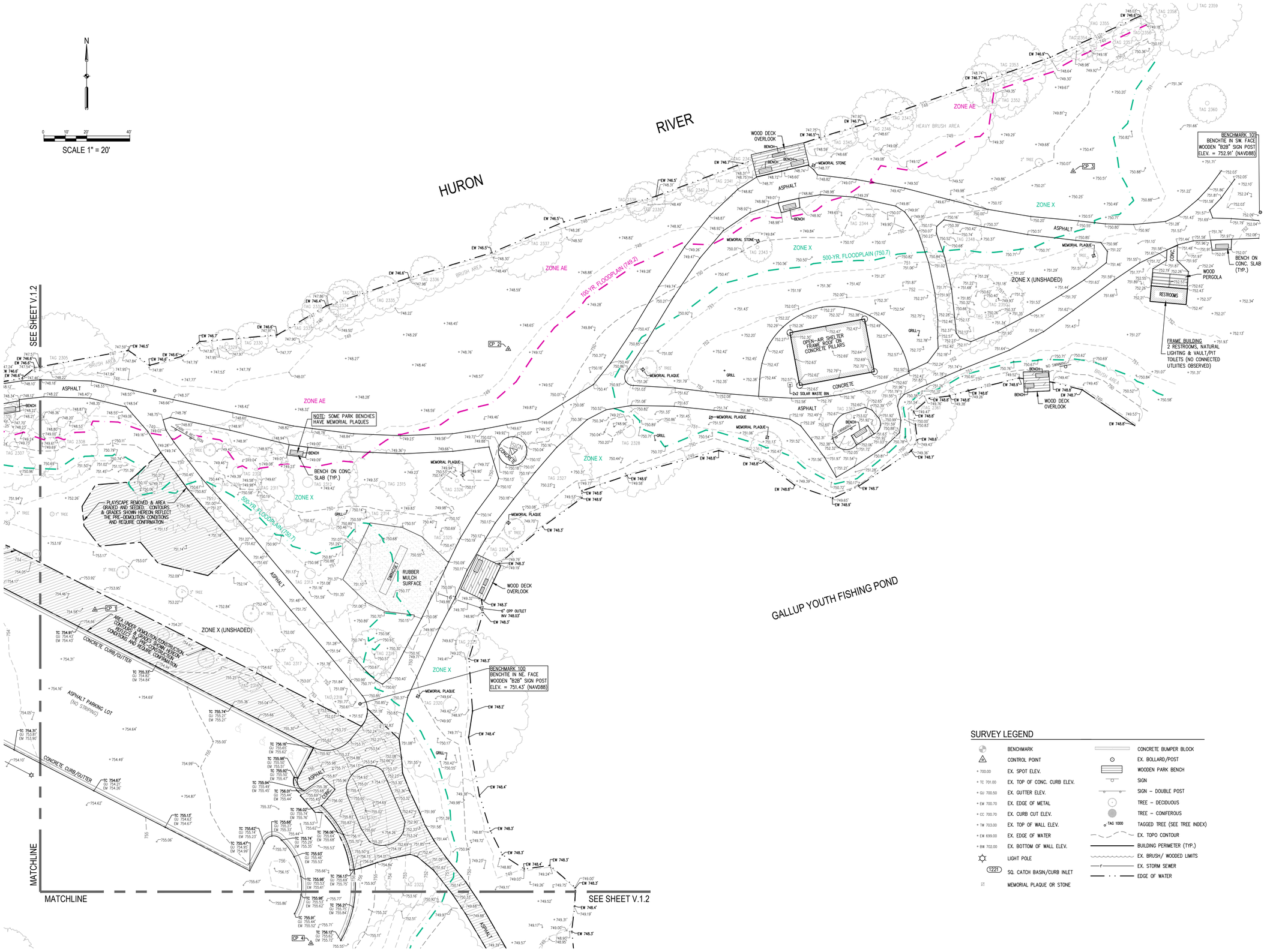
DRAWING TITLE
TOPOGRAPHIC SURVEY

SCALE 1" = 30'

PROJECT NUMBER 20678.000

DRAWING NUMBER V.1.0

FILE: P:\20678.000\CAD\Resource\Survey\MODEL\20678_SURV-UPDATED.dwg USER: clangolf DATE: Aug. 15, 2016 TIME: 02:13 pm



SURVEY LEGEND

	BENCHMARK		CONCRETE BUMPER BLOCK
	CONTROL POINT		EX. BOLLARD/POST
+ 700.00	EX. SPOT ELEV.		WOODEN PARK BENCH
+ TC 701.00	EX. TOP OF CONC. CURB ELEV.		SIGN
+ GU 700.50	EX. GUTTER ELEV.		SIGN – DOUBLE POST
+ EM 700.70	EX. EDGE OF METAL		TREE – DECIDUOUS
+ CC 700.70	EX. CURB CUT ELEV.		TREE – CONIFEROUS
+ TW 703.00	EX. TOP OF WALL ELEV.	TAG 1000	TAGGED TREE (SEE TREE INDEX)
+ EW 699.00	EX. EDGE OF WATER		EX. TOPO CONTOUR
+ BW 702.00	EX. BOTTOM OF WALL ELEV.		BUILDING PERIMETER (TYP.)
	LIGHT POLE		EX. BRUSH/ WOODED LIMITS
1221	SQ. CATCH BASIN/CURB INLET		EX. STORM SEWER
	MEMORIAL PLAQUE OR STONE		EDGE OF WATER

GALLUP PARK

GALLUP PARK ROAD
ANN ARBOR, MICHIGAN

Owner:

CITY OF ANN ARBOR, DEPARTMENT OF PARKS & RECREATION

SMITHGROUPJJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
CLIENT ISSUE	0	7/31/2015
UPDATE SURVEY TO REFLECT CONSTRUCTION ACTIVITY	1	8/15/2016

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEY PLAN

DRAWING TITLE

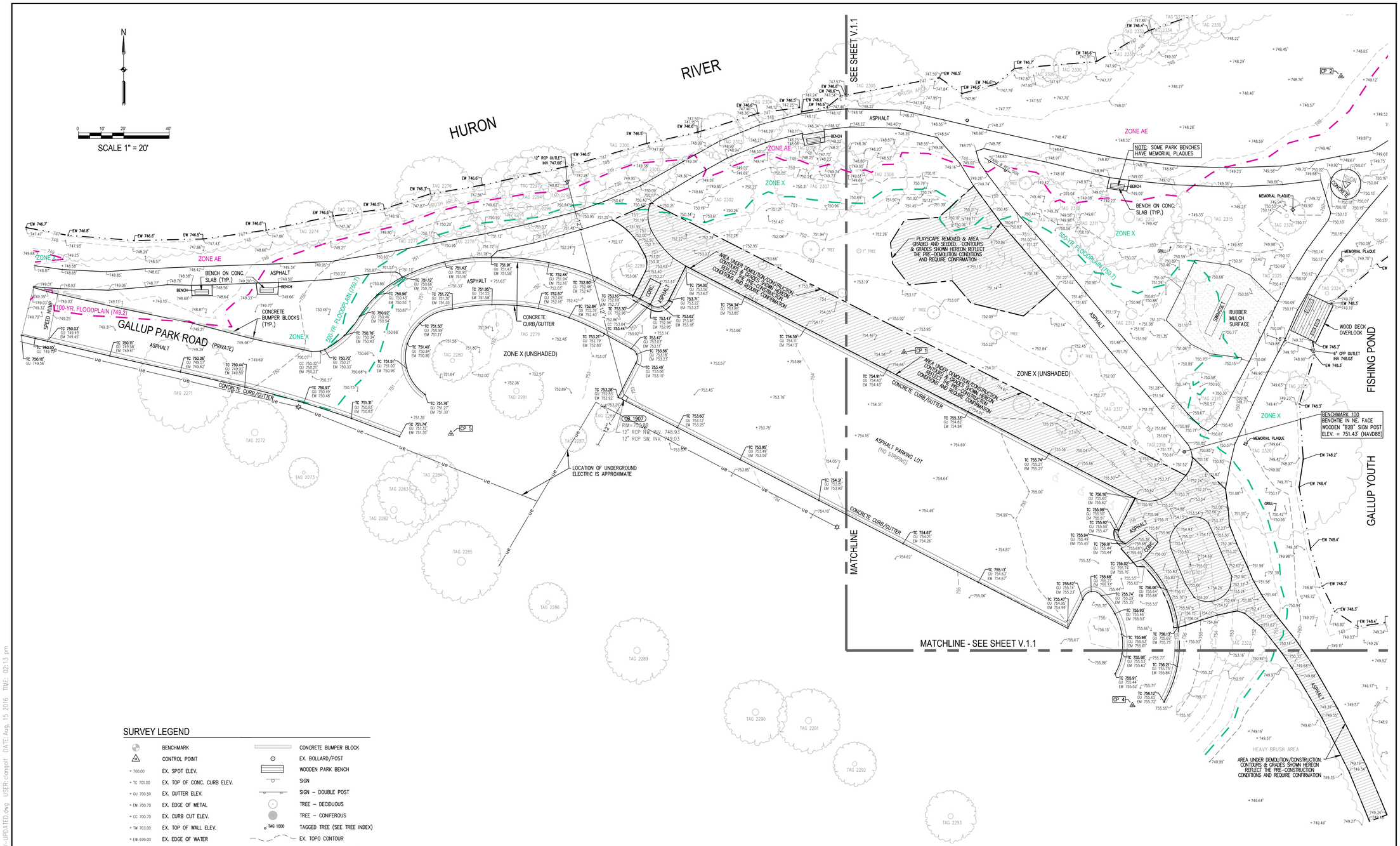
TOPOGRAPHIC SURVEY

SCALE 1" = 20'

PROJECT NUMBER 20678.000

DRAWING NUMBER V.1.1

FILE:P:\20678.000\CAD\Resource\Survey\MODEL\20678_SURV-UPDATED.dwg USER:clongdf DATE:Aug. 15, 2016 TIME: 02:13 pm



SURVEY LEGEND

	BENCHMARK		CONCRETE BUMPER BLOCK
	CONTROL POINT		EX. BOLLARD/POST
+ 700.00	EX. SPOT ELEV.		WOODEN PARK BENCH
+ TC 701.00	EX. TOP OF CONC. CURB ELEV.		SIGN
+ GU 700.50	EX. GUTTER ELEV.		SIGN – DOUBLE POST
+ EM 700.70	EX. EDGE OF METAL		TREE – DECIDUOUS
+ CC 700.70	EX. CURB CUT ELEV.		TREE – CONIFEROUS
+ TW 703.00	EX. TOP OF WALL ELEV.	TAG 1000	TAGGED TREE (SEE TREE INDEX)
+ EW 699.00	EX. EDGE OF WATER		EX. TOPO CONTOUR
+ BW 702.00	EX. BOTTOM OF WALL ELEV.		BUILDING PERIMETER (TYP.)
	LIGHT POLE		EX. BRUSH/ WOODED LIMITS
1221	SQ. CATCH BASIN/CURB INLET		EX. STORM SEWER
	MEMORIAL PLAQUE OR STONE		EDGE OF WATER

GALLUP PARK

GALLUP PARK ROAD
ANN ARBOR, MICHIGAN

Owner:
CITY OF ANN ARBOR, DEPARTMENT OF PARKS & RECREATION

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
CLIENT ISSUE	0	7/31/2015
UPDATE SURVEY TO REFLECT CONSTRUCTION ACTIVITY	1	8/15/2016

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEY PLAN

DRAWING TITLE
TOPOGRAPHIC SURVEY

SCALE: 1" = 20'

PROJECT NUMBER: 20678.000

DRAWING NUMBER: V.1.2

FILE:P:\20678.000\CAD\Resource\Survey\MODEL\20678 SURV-UPDATED.dwg USER:dangolf DATE:Aug. 15, 2016 TIME: 02:13 pm

TREE INDEX

Tag	Species	Common Name	DBH (Inches)	GPS Coordinates [Northing]	GPS Coordinates [Easting]	Invasive Species Class	Potential Landmark Tree	Critcial Root Zone (Feet)	Trunk	Growth Rate	Structure	Insects/ Diseases	Crown Devlpmt	Life Expect-ancy	**Total**	Notes
2271	*Acer negundo*	Boxelder	21.5	282589	13305096		Y	21.5	3	5	5	4	5	5	**27**	2 TR
2272	*Pinus nigra*	Austrian pine	14.8	282567	13305127	2										sap running
2273	*Juglens nigra*	Black walnut	6.9	282549	13305148											
2274	*Ulmus americana*	American elm	10.4	282659	13305150											
2275	*Alnus glutinosa*	European alder	6.9	282663	13305167	1										
2276	*Alnus glutinosa*	European alder	18.3	282671	13305206	1										
2277	*Quercus velutina*	Black oak	23.2	282652	13305203		Y	23.2	5	5	4	5	4	5	**28**	
2278	*Quercus macrocarpa*	Bur oak	12.3	282654	13305217											sprouting from trunk
2279	*Acer saccharinum*	Silver maple	7.1	282615	13305234											rotten core
2280	*Acer saccharinum*	Silver maple	9.5	282599	13305214											rotten core
2281	*Acer saccharinum*	Silver maple	12.5	282585	13305242											girdling root
2282	*Pinus nigra*	Austrian pine	14.8	282533	13305188	2										borer holes, sap running
2283	*Pinus nigra*	Austrian pine	16.5	282542	13305196	2										
2284	*Pinus nigra*	Austrian pine	11.4	282546	13305205	2										
2285	*Acer negundo*	Boxelder	18.3	282510	13305218		Y	18.3	4	5	4	4	4	5	**26**	2 TR
2286	*Platanus x acerifolia*	London planetree	9.0	282492	13305256											
2287	*Gleditsia triacanthos v. inermis*	Honeylocust	6.1	282565	13305267											
2288	*Crataegus spp.*	Hawthorn	6.1	282573	13305282											2 TR
2289	*Pinus nigra*	Austrian pine	14.7	282471	13305295	2										borer holes
2290	*Pinus nigra*	Austrian pine	14.5	282444	13305347	2										borer holes, sap
2291	*Pinus nigra*	Austrian pine	14.4	282440	13305371	2										
2292	*Pinus nigra*	Austrian pine	9.9	282421	13305391	2										bad crotch angle
2293	*Pinus nigra*	Austrian pine	11.7	282398	13305433	2										
2294	*Ulmus americana*	American elm	10.8	282671	13305244											
2295	*Quercus velutina*	Black oak	22.8	282666	13305245		Y	22.8	5	5	4	5	4	5	**28**	
2296	*Quercus bicolor*	Swamp white oak	15.4	282666	13305247											trunk sprouts
2297	*Quercus bicolor*	Swamp white oak	19.5	282674	13305254		Y	19.5	4	4	3	4	3	4	**22**	
2298	*Quercus bicolor*	Swamp white oak	17.5	282671	13305256		Y	17.5	3	3	3	4	3	4	**20**	
2299	*Acer rubrum*	Red maple	9.0	282638	13305292											old sunscald
2300	*Salix nigra*	Black willow	17.9	282690	13305289											3 TR
2301	*Tilia americana*	American linden	11.5	282681	13305301											4 TR
2302	*Tilia americana*	American linden	21.3	282670	13305326		Y	21.3	4	4	4	4	4	4	**24**	3 TR
2303	*Alnus glutinosa*	European alder	10.7	282697	13305332	1										2 TR
2304	*Alnus glutinosa*	European alder	10.9	282705	13305350	1										2 TR
2305	*Alnus glutinosa*	European alder	26.9	282715	13305396	1										estimated DBH
2306	*Tilia americana*	American linden	12.2	282692	13305364											
2307	*Tilia americana*	American linden	20.4	282679	13305375		Y	20.4	4	5	5	4	5	5	**28**	2 TR
2308	*Quercus macrocarpa*	Bur oak	17.4	282680	13305398		Y	17.4	4	4	4	4	4	4	**24**	
2309	*Quercus alba*	White oak	21.5	282659	13305470		Y	21.5	4	4	5	4	5	4	**26**	
2310	*Quercus alba*	White oak	24.6	282667	13305479		Y	24.6	5	4	3	4	4	4	**24**	leaning
2311	*Quercus alba*	White oak	20.0	282659	13305487		Y	20.0	3	3	4	3	4	3	**20**	trunk sprouts
2312	*Tilia americana*	American linden	24.4	282662	13305512		Y	24.4	4	5	4	5	5	5	**28**	leaning
2313	*Quercus velutina*	Black oak	25.1	282619	13305513		Y	25.1	5	5	5	5	5	5	**30**	2 TR
2314	*Tilia americana*	American linden	14.8	282647	13305539											
2315	*Tilia americana*	American linden	16.9	282661	13305547											2 TR
2316	*Celtis occidentalis*	Hackberry	6.0	282570	13305485											
2317	*Gleditsia triacanthos v. inermis*	Honeylocust	7.9	282580	13305505											
2318	*Prunus serotina*	Black cherry	20.8	282560	13305533		Y	20.8	4	4	4	4	4	4	**24**	
2319	*Acer rubrum*	Red maple	11.0	282583	13305543											
2320	*Salix alba*	White willow	37.5	282558	13305579	2										
2321	*Acer rubrum*	Red maple	7.0	282508	13305539											
2322	*Quercus velutina*	Black oak	13.0	282477	13305560											4 TR
2323	*Morus alba*	White mulberry	6.1	282586	13305586	2										
2324	*Betula nigra 'Heritage'*	Heritage river birch	8.4	282628	13305599											2 TR
2325	*Liquidambar styraciflua*	Sweet gum	9.3	282638	13305574											
2326	*Liquidambar styraciflua*	Sweet gum	8.4	282663	13305581											
2327	*Quercus alba*	White oak	17.5	282667	13305628		Y	17.5	5	5	5	5	5	5	**30**	
2328	*Salix alba*	White willow	30.1	282686	13305662	2										
2329	*Alnus glutinosa*	European alder	7.2	282726	13305474	1										multiple trunks
2330	*Alnus glutinosa*	European alder	7.9	282729	13305486	1										2 TR
2331	*Alnus glutinosa*	European alder	6.5	282736	13305509	1										
2332	*Alnus glutinosa*	European alder	9.0	282742	13305518	1										estimate DBH; 8+ trunks
2333	*Alnus glutinosa*	European alder	9.4	282747	13305529	1									**0**	4 TR
2334	*Alnus glutinosa*	European alder	7.1	282746	13305527	1										3 TR
2335	*Acer negundo*	Boxelder	8.1	282750	13305547											
2336	*Alnus glutinosa*	European alder	8.2	282759	13305567	1										4 TR
2337	*Robinia pseudoacacia*	Black locust	17.9	282774	13305613	2									**0**	2 TR
2338	*Alnus glutinosa*	European alder	6.5	282793	13305666	1										
2339	*Robinia pseudoacacia*	Black locust	9.6	282793	13305669	2										
2340	*Prunus avium*	Sweet cherry	7.1	282800	13305692	2										
2341	*Alnus glutinosa*	European alder	13.4	282804	13305700	1										3 TR
2342	*Alnus glutinosa*	European alder	6.9	282810	13305716	1										leaning
2343	*Tilia cordifolia*	Littleleaf linden	7.2	282771	13305721											
2344	*Quercus rubra*	Red oak	9.6	282785	13305767											
2345	*Alnus glutinosa*	European alder	8.1	282825	13305760	1										2 TR
2346	*Alnus glutinosa*	European alder	15.1	282830	13305779	1										
2347	*Rhamnus cathartica*	Buckthorn	7.6	282834	13305788	1										
2348	*Quercus rubra*	Red oak	15.1	282779	13305811											
2349	*Quercus macrocarpa*	Bur oak	18.7	282741	13305821		Y	18.7	4	3	3	2	3	3	**18**	significant trunk sprouting
2350	*Tilia americana*	American linden	18.6	282745	13305827		Y	18.6	3	3	3	4	3	4	**20**	2 TR
2351	*Morus alba*	White mulberry	10.5	282847	13305827	2										
2352	*Robinia pseudoacacia*	Black locust	11.4	282843	13305836	2										3 TR
2353	*Alnus glutinosa*	European alder	17.7	282853	13305839	1										
2354	*Alnus glutinosa*	European alder	8.4	282867	13305871	1										7 TR
2355	*Robinia pseudoacacia*	Black locust	16.1	282873	13305885	2										
2356	*Robinia pseudoacacia*	Black locust	18.4	282871	13305893	2										
2357	*Robinia pseudoacacia*	Black locust	10.5	282869	13305897	2										
2358	*Acer negundo*	Boxelder	7.0	282879	13305911											
2359	*Robinia pseudoacacia*	Black locust	24.0	282884	13305924	2										estimated DBH; 7 TR
2360	*Tilia cordifolia*	Littleleaf linden	9.3	282839	13305931											
2361	*Tilia cordifolia*	Littleleaf linden	18.7	282697	13305796		Y	18.7	4	4	4	5	4	5	**26**	
2362	*Tilia cordifolia*	Littleleaf linden	13.5	282692	13305764											
2363	*Betula nigra 'Heritage'*	Heritage river birch	7.6	282678	13305725											
2364	*Quercus macrocarpa*	Bur oak	6.6	282364	13305648											
2365	*Quercus macrocarpa*	Bur oak	14.1	282330	13305659											

NOTES:

- Number of Landmark Trees with a Health/Condition score of 16 or higher: 19
- Number of Landmark Trees with a Health/Condition score of less than 16: 0
- Tree survey completed during leaf off; health of tree was estimated
- GPS Coordinates are expressed in NAD 83 Datum, Michigan State Plane Grid

GALLUP PARK

GALLUP PARK ROAD
ANN ARBOR, MICHIGAN

Owner:

CITY OF ANN ARBOR, DEPARTMENT OF PARKS & RECREATION

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
CLIENT ISSUE	0	7/31/2015
UPDATE SURVEY TO REFLECT CONSTRUCTION ACTIVITY	1	8/15/2016

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEY PLAN

DRAWING TITLE

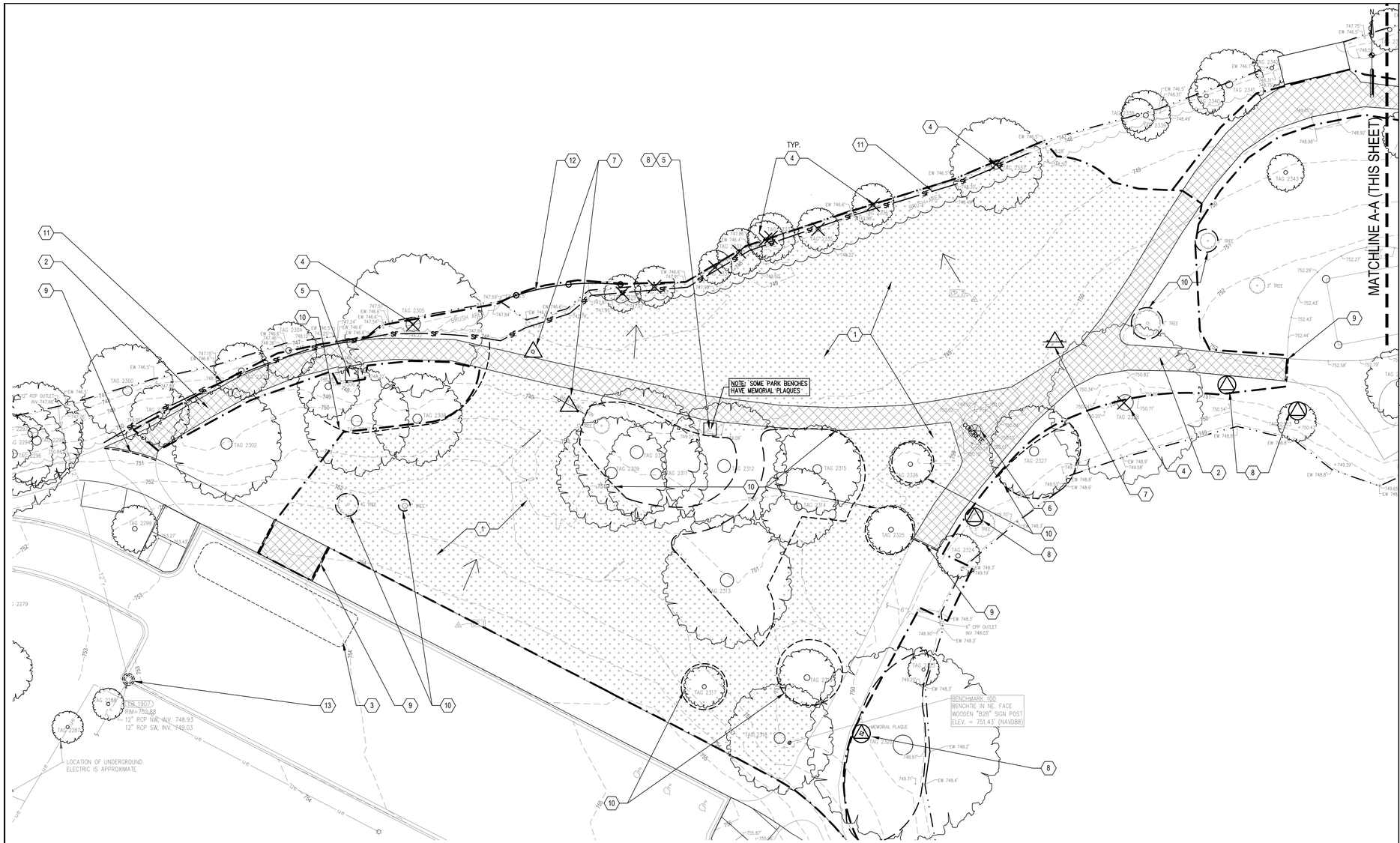
TREE INVENTORY

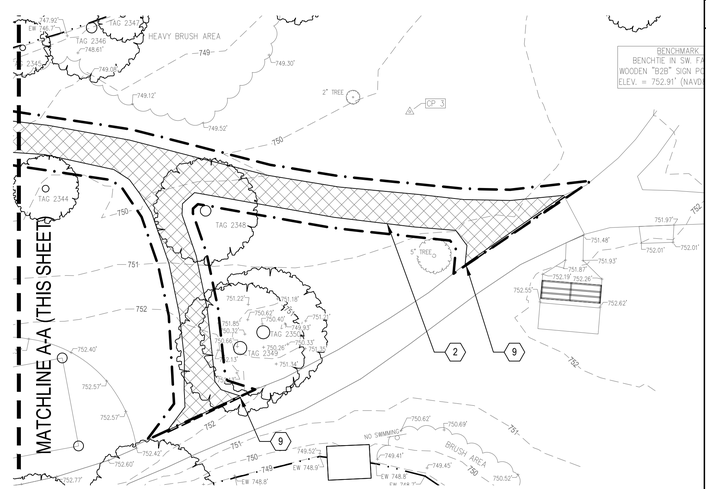
SCALE N/A

PROJECT NUMBER 20678.000

DRAWING NUMBER V.1.3

FILE:P:\20678.000\CAD\Resource\Survey\MODEL\20678_SURV-UPDATED.dwg USER:clongolf DATE:Aug. 15, 2016 TIME: 02:13 pm





SHEET NOTES

1. COORDINATE SITE LOGISTICS, (LIMITS OF CONSTRUCTION STAGING AND STOCKPILING), WITH OWNER PRIOR TO BEGINNING CONSTRUCTION
2. SEE L1.1 FOR SESC NOTES
3. BORDER TO BORDER (B2B) TRAIL SITE IMPROVEMENTS CONSTRUCTION STARTING SUMMER 2016 ADJACENT TO PROJECT SITE. TOPOGRAPHIC SURVEY MAY NOT SHOW ALL IMPROVEMENTS ASSOCIATED WITH THE B2B PROJECT. CONTRACTORS SHALL CONFIRM EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

SITE REMOVALS KEYNOTES

- PROJECT LIMITS
- EDGE OF WATER
- EXISTING DRAINAGE DIRECTION
- 1 CLEARING AND GRUBBING
- 2 ASPHALT PAVEMENT REMOVAL
- 3 STOCKPILE AND CONSTRUCTION STAGING
- 4 TREE REMOVAL
- 5 REMOVE BENCH, SALVAGE TO OWNER
- 6 REMOVE SIGN AND FOOTING
- 7 SALVAGE B2B PARK SIGN TO OWNER
- 8 SALVAGE MEMORIAL PLAQUE TO OWNER
- 9 SAWCUT PAVEMENT

SESC KEYNOTES

- 10 TREE PROTECTION (2 / L1.1)
- 11 SF SILT FENCE (1 / L1.1)
- 12 TURBIDITY CURTAIN (3 / L1.1)
- 13 INLET FILTER(SILTSACK) (4 / L1.1)

Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 10' 20' 40'

DRAWING TITLE
SITE REMOVALS AND SESC PLAN

SCALE 1"=20'

PROJECT NUMBER 20678.000

DRAWING NUMBER L1.0

FILE:P:\20678.000\CAD\C\Sheet\20678-DEMO-SHT.dwg USER:jyoung DATE:Oct. 14 2016 TIME: 10:16 am

GENERAL
NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.

2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE OWNER'S REPRESENTATIVE TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.

4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.

5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.

6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.

7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.

8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLATIVE AS REQUIRED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.

11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.

12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

SEQUENCE OF EROSION CONTROL MEASURES:

1. THE CONTRACTOR IS TO SUBMIT TO THE OWNER'S REPRESENTATIVE, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, TURBIDITY CURTAIN, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.

1.2. REMOVE VEGETATION, TREES AND BRUSH, PAVEMENT, STRUCTURES AND PLAY SURFACE/SAND PER SITE REMOVALS AND SESC PLAN. REMOVE ALL TOPSOIL , ORGANIC MATTER, AND DELETERIOUS MATERIALS. STOCKPILE TOPSOIL AS NECESSARY FOR REUSE. STABILIZE STOCKPILE AS REQUIRED.

1.3. DISPOSE OF ALL EXCESS AND UNUSABLE MATERIALS OFFSITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.

1.4. PERFORM MASS GRADING OPERATIONS.

1.5. INSTALL WALLS, UTILITIES, AND PLAY STRUCTURES

1.6. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.

1.7. COMPLETE ALL DETENTION GRADING.

1.8. INSTALL SITE PAVING AND PLAY SURFACE.

1.9. APPLY TOPSOIL AND FINISH GRADE AREAS THAT HAVE BEEN GRADED AND STABILIZE WITH TEMPORARY MEASURES. PERMANENT SEED MIXES TO BE INSTALLED WITHIN 5 DAYS OF COMPLETING FINAL GRADING.

1.10. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.

1.11. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.

1.12. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.

1.13. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH OWNER'S REPRESENTATIVES APPROVAL, PRIOR TO FINAL INSPECTION

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE OWNER'S REPRESENTATIVE FOR REVIEW, COMMENT, AND APPROVAL.

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.

2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES = $2,100

ESTIMATE OF EXCAVATION AND FILL FROM EXISTING TO FINAL GRADE:
- EXCAVATION = 150 CY, FILL = 600 CY

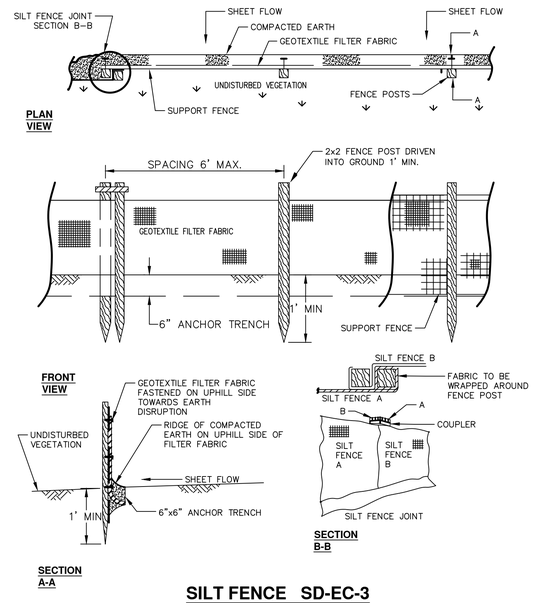
ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:
- BnB - BOYER LOAMY SAND, 1% - 6% SLOPES, WELL DRAINED, IN TERRACES AND MORRAINES
- WaA - WASEPI SANDY LOAM, 0% - 4% SLOPES, SOMEWHAT POORLY DRAINED, IN DRAINAGEWAYS ON VALLEY TRAINS, STRAND PLAINS, LAKE PLAINS, AND DELTAS.

IMPERVIOUS PROJECT AREA

5,431 ft2 - CONCRETE PAVEMENT/SIDEWALK = **0.125** AC
6,275 ft2 - POURED IN PLACE RUBBER PLAY SURFACE = **0.144** AC

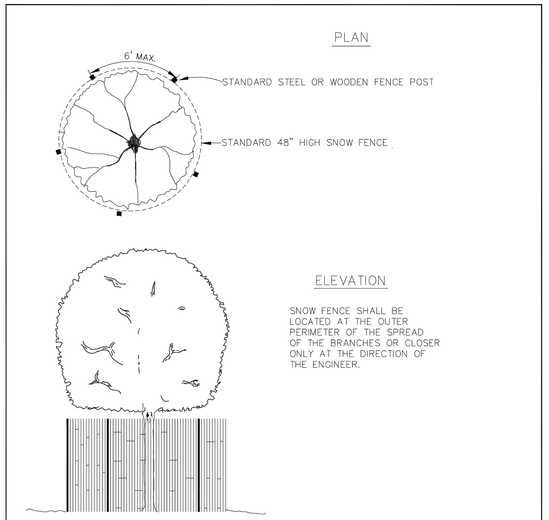
11,1756 ft2 - TOTAL IMPERVIOUS PROJECT AREA = **0.270** AC

TOTAL AREA OF PROPOSED DISTURBANCE = **0.703** AC



SILT FENCE SD-EC-3

1 SILT FENCE
1" = 1/2'



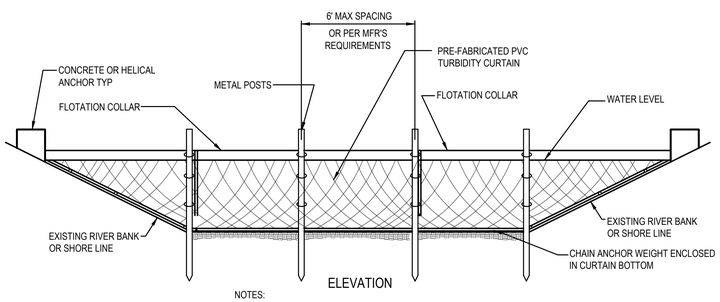
REVISIONS	REV. NO.	DR.BY	CH. BY	DATE

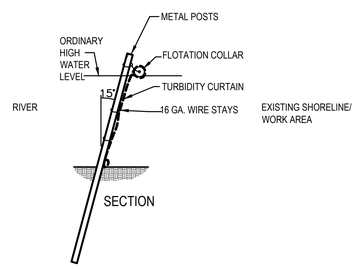
PUBLIC SERVICES DEPARTMENT
CITY OF ANN ARBOR

TREE PROTECTION

DR. BY	DF/SMJ	CH. BY	CSS	DRAWING NO.
SCALE	NONE	DATE	11-6-92	SD-M-1
INCH	0 — 1			SHEET NO. _____ OF _____

2 TREE PROTECTION
1" = 1/2'



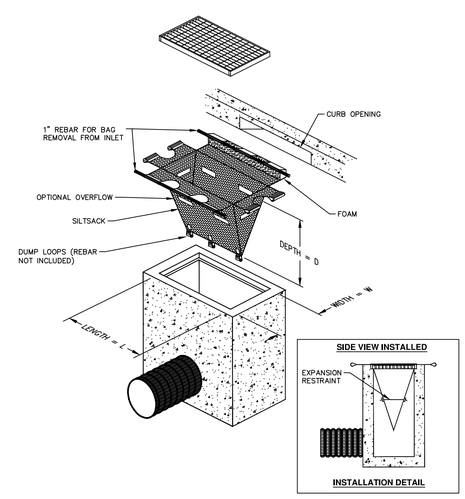


NOTES:

1. SUBMIT MANUFACTURER'S PRODUCT DATA SHEET FOR APPROVAL BY A/E PRIOR TO INSTALLATION.

2. LOCATION AND WIDTH OF TURBIDITY CURTAIN TO BE DETERMINED IN THE FIELD. CONFIRM LOCATION AND WIDTH WITH A/E PRIOR TO CONSTRUCTION.

3 TURBIDITY CURTAIN
1" = 1/2'



NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

HI-FLOW SILTSACK

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC-1

OIL-ABSORBANT SILTSACK

(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.

4 INLET FILTER(SILTSACK)
1" = 1/2'

811 Know what's below. Call before you dig.
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

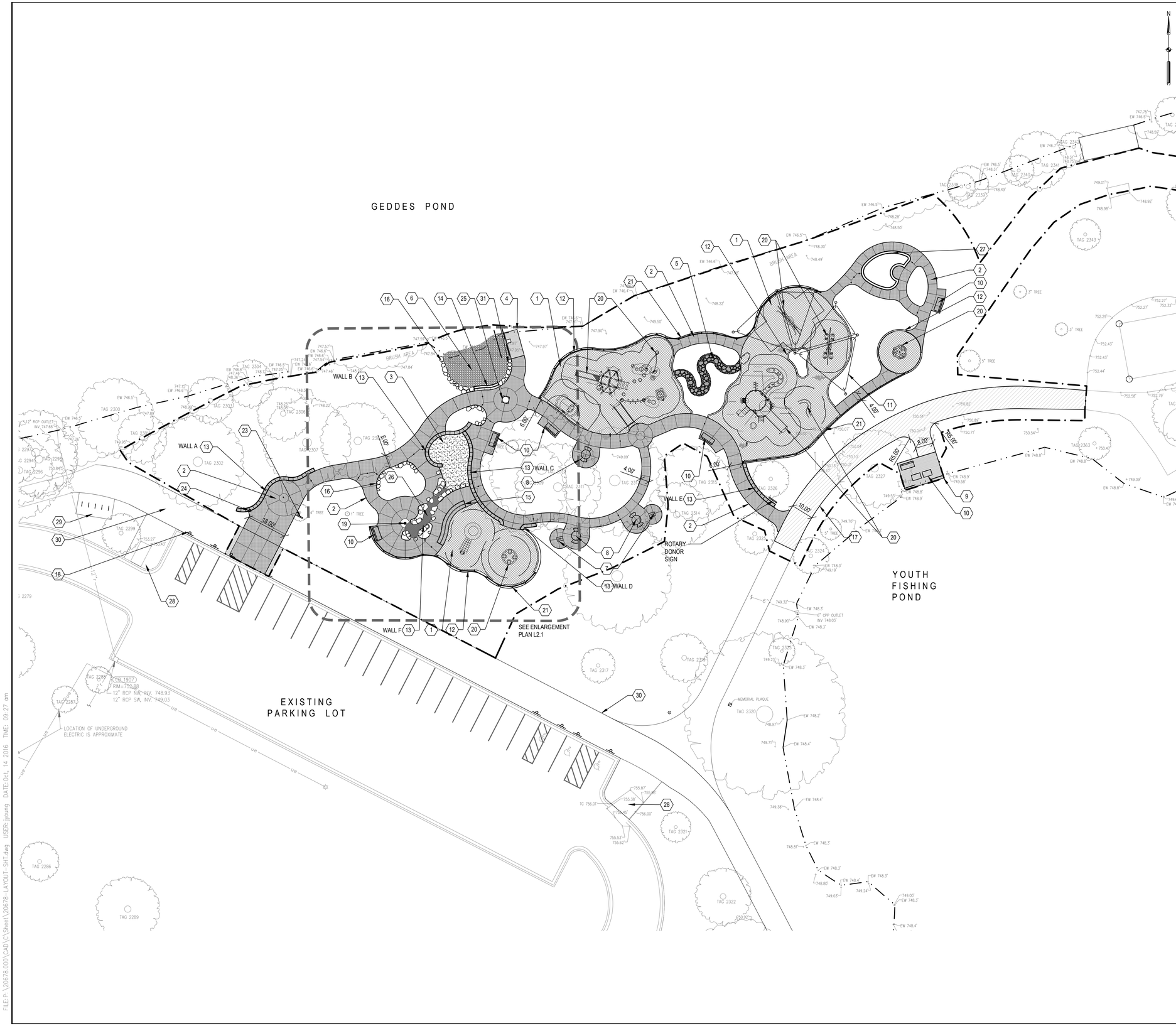
DRAWING TITLE
SESC DETAILS AND NOTES

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

DRAWING NUMBER: L1.1

FILE:P:\20678.000\CAD\C\Sheet\20678-- SESC DETL -SHT.dwg USER:jyoung DATE:Oct. 14 2016 TIME: 12:38 pm



SHEET NOTES

SUMMARY OF ALTERNATES:

- ALTERNATE 1: PROVIDE CONCRETE PAVEMENT IN LIEU OF ASPHALT PAVEMENT AT EASTERN PATH.
- ALTERNATE 2: PLAY SURFACE LAYOUT (SEE SHEET L2.2)

LAYOUT NOTES:

1. PLAY STRUCTURES SHOWN FOR REFERENCE. REFER TO PLAY MANUFACTURER DRAWINGS FOR MORE INFORMATION. COORDINATE INSTALLATION OF SITE ELEMENTS INCLUDING PLAY SURFACING, EDGE RESTRAINT WITH INSTALLATION OF PLAY STRUCTURES.
2. THE ENGINEER WILL PROVIDE A DIGITAL COPY OF THE LAYOUT IN AUTOCAD TO THE CONTRACTOR FOR THEIR USE IN LAYOUT AND STAKING.
3. B2B PROJECT IMPROVEMENTS SHOWN ARE FOR REFERENCE ONLY

LAYOUT KEYNOTES

	PROJECT LIMITS	
	EDGE OF WATER	
1	PLAY SURFACE - POURED IN PLACE RUBBER (SEE PLAY SURFACE LAYOUT PLAN L2.2)	5 / L4.0
2	CONCRETE SIDEWALK (CONTROL JOINT, EXPANSION JOINT)	1 / L4.0
3	PLAYGROUND SAND	13 / L4.0
4	KAYAK PLATFORM	1 / L4.3
5	FLAGSTONE STEPPERS	4 / L4.2
6	SURFACE AGGREGATE	7 / L4.0
7	GRILL (SEE EQUIPMENT PLANS)	
8	PICNIC TABLE (SEE EQUIPMENT PLANS)	
9	WOOD FISIHNG PLATFORM	3 / L4.1
10	BENCH (SEE EQUIPMENT PLANS)	
11	SHADE STRUCTURE (SEE EQUIPMENT PLANS)	
12	PLAY SURFACE EDGE RESTRAINT	4 / L4.0
13	GRANITE WALL	1 / L4.2
14	SANDSTONE, BLOCK STEPS	8 / L4.0
15	CONCRETE STEP	9 / L4.0
16	GLACIAL COBBLE	
17	ASPHALT PAVEMENT	
18	BARRIER-FREE PARKING SIGNAGE (BY OTHERS)	
19	WATER PUMP PEDESTAL	1 / L4.4
20	PLAY EQUIPMENT (SEE EQUIPMENT PLANS)	
21	PERIMETER FENCE	1 / L4.1
22	N/A	
23	PROJECT I.D. SIGN	
24	MDNR GRANT PLAQUE	
25	WAYFINDING KIOSK (BY OTHERS)	
26	WATER RUNNEL	10 / L4.0
27	SENSORY GARDEN WALL	2 / L4.2
28	SIDEWALK RAMP (B2B PROJECT IMPROVEMENTS)	
29	BIKE RACK (B2B PROJECT IMPROVEMENTS)	
30	ASPHALT PATH (B2B PROJECT IMPROVEMENTS)	
31	BOULDER WALL AT KAYAK PLATFORM	5 / L4.2

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 10' 20' 40'

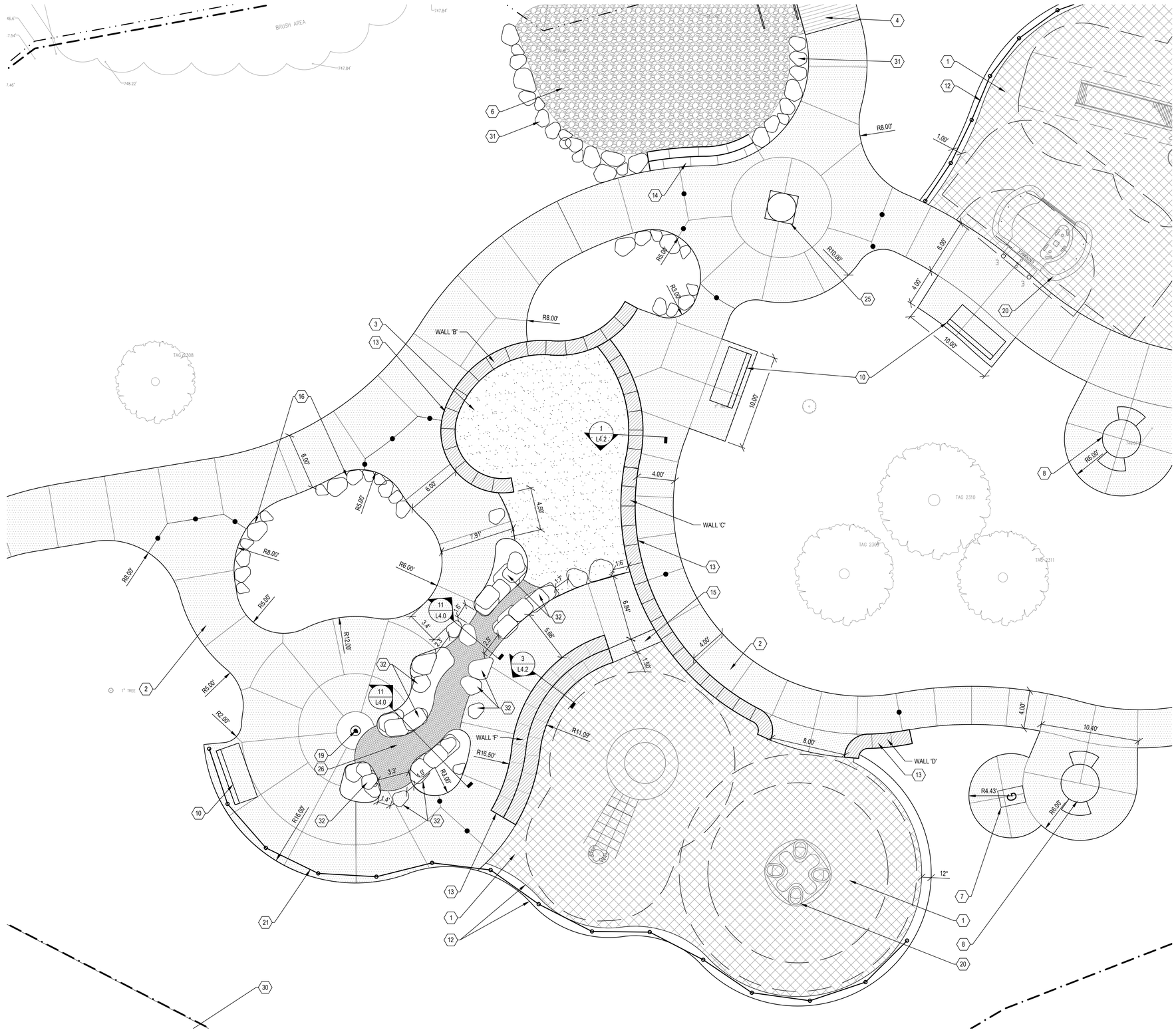
DRAWING TITLE
LAYOUT AND MATERIALS PLAN

SCALE 1"=20'

PROJECT NUMBER 20678.000

DRAWING NUMBER L2.0

FILE:P:\20678.000\CAD\C\Sheet\20678-LAYOUT-SHT.dwg USER:jdyoung DATE:Oct. 14 2016 TIME: 09:27 am



1 LAYOUT AND MATERIALS ENLARGEMENT

SCALE: 1" = 5'

SHEET NOTES

LAYOUT NOTES:

1. GAPS IN STONE AT THE WATER RUNNEL SHALL BE 3' MAXIMUM. DIMENSIONS SHOWN BETWEEN STONES ARE FOR REFERENCE. FINAL LOCATION OF STONE IS SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE.

LAYOUT KEYNOTES

	PROJECT LIMITS	
	EDGE OF WATER	
1	PLAY SURFACE - POURED IN PLACE RUBBER (SEE PLAY SURFACE LAYOUT PLAN L2.2)	5 / L4.0
2	CONCRETE SIDEWALK (CONTROL JOINT, EXPANSION JOINT)	1 / L4.0
3	PLAYGROUND SAND	13 / L4.0
4	KAYAK PLATFORM	1 / L4.3
5	FLAGSTONE STEPPERS	4 / L4.2
6	SURFACE AGGREGATE	7 / L4.0
7	GRILL (SEE EQUIPMENT PLANS)	
8	PICNIC TABLE (SEE EQUIPMENT PLANS)	
9	WOOD FISIHNG PLATFORM	3 / L4.1
10	BENCH (SEE EQUIPMENT PLANS)	
11	SHADE STRUCTURE (SEE EQUIPMENT PLANS)	
12	PLAY SURFACE EDGE RESTRAINT	4 / L4.0
13	GRANITE WALL	1 / L4.2
14	SANDSTONE, BLOCK STEPS	8 / L4.0
15	CONCRETE STEP	9 / L4.0
16	GLACIAL COBBLE	
17	ASPHALT PAVEMENT	
18	BARRIER-FREE PARKING SIGNAGE (BY OTHERS)	
19	WATER PUMP PEDESTAL	1 / L4.4
20	PLAY EQUIPMENT (SEE EQUIPMENT PLANS)	
21	PERIMETER FENCE	1 / L4.1
22	N/A	
23	PROJECT I.D. SIGN	
24	MDNR GRANT PLAQUE	
25	WAYFINDING KIOSK (BY OTHERS)	
26	WATER RUNNEL	10 / L4.0
27	SENSORY GARDEN WALL	2 / L4.2
28	SIDEWALK RAMP (B2B PROJECT IMPROVEMENTS)	
29	BIKE RACK (B2B PROJECT IMPROVEMENTS)	
30	ASPHALT PATH (B2B PROJECT IMPROVEMENTS)	
31	BOULDER WALL AT KAYAK PLATFORM	5 / L4.2
32	SANDSTONE BLOCKS	

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OF VISIBLE FACILITIES. THEY SHOULD NOT BE INTERPRETED AS EXACT LOCATIONS. IT MUST BE NOT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 10' 20' 40'

DRAWING TITLE
LAYOUT AND MATERIALS ENLARGEMENT PLAN

SCALE 1"=5'

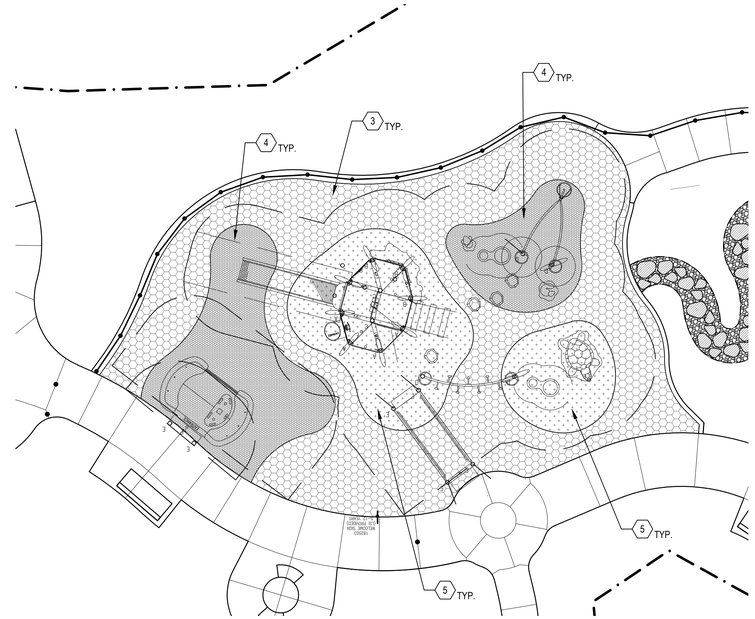
PROJECT NUMBER 20678.000

DRAWING NUMBER L2.1

FILE:P:\20678.000\CAD\C\Sheet\20678-LAYOUT-SHT.dwg USER:jpeung DATE:Oct. 14 2016 TIME: 09:24 am

1 PLAY SURFACE LAYOUT PLAN - WOODLAND AREA

SCALE: 1/8"=1'-0"



2 PLAY SURFACE LAYOUT PLAN - RIVER AREA

SCALE: 1/8" = 1'-0"

1 PLAY SURFACE LAYOUT PLAN - PRAIRIE AREA

SCALE: 1" = 10'

SHEET NOTES

1. PLAY STRUCTURES SHOWN FOR REFERENCE. REFER TO PLAY MANUFACTURER DRAWINGS FOR MORE INFORMATION. COORDINATE INSTALLATION OF SITE ELEMENTS INCLUDING PLAY SURFACING, EDGE RESTRAINT WITH INSTALLATION OF PLAY STRUCTURES.
2. THE ENGINEER WILL PROVIDE A DIGITAL COPY OF THE LAYOUT IN AUTOCAD TO THE CONTRACTOR FOR THEIR USE IN LAYOUT AND STAKING.
3. REFER TO DETAIL 5 - PLAY SURFACE - POURED IN PLACE RUBBER ON SHEET L4.0 FOR PLAY SURFACE THICKNESS FOR EACH AREA.
4. ALTERNATE NO. 2: IN LIEU OF MULTIPLE COLORED PLAY SURFACE AREAS AS DEPICTED ON THIS PLAN, PROVIDE THE FOLLOWING:
   - ONE COLOR FOR WOODLAND PLAY AREA
   - TWO COLORS FOR RIVER AREA
   - TWO COLORS FOR PRAIRIE AREA

   IF ALTERNATE NO. 2 IS SELECTED, SUBMIT COLOR SAMPLES FOR PLAY SURFACING FOR OWNER COLOR SELECTION.

PLAY SURFACE KEYNOTES

1. PLAY SURFACE COLOR A - LIGHT BLUE
2. PLAY SURFACE COLOR B - LIGHT GREEN
3. PLAY SURFACE COLOR C - BLUE
4. PLAY SURFACE COLOR D - DARK BLUE
5. PLAY SURFACE COLOR E - GRAY/BEIGE
6. PLAY SURFACE COLOR F - YELLOW/GOLD
7. PLAY SURFACE COLOR G - ORANGE
8. PLAY SURFACE COLOR H - GOLD

Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED AS EXACT LOCATIONS. NOR SHOULD IT NOT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 5' 10' 20'

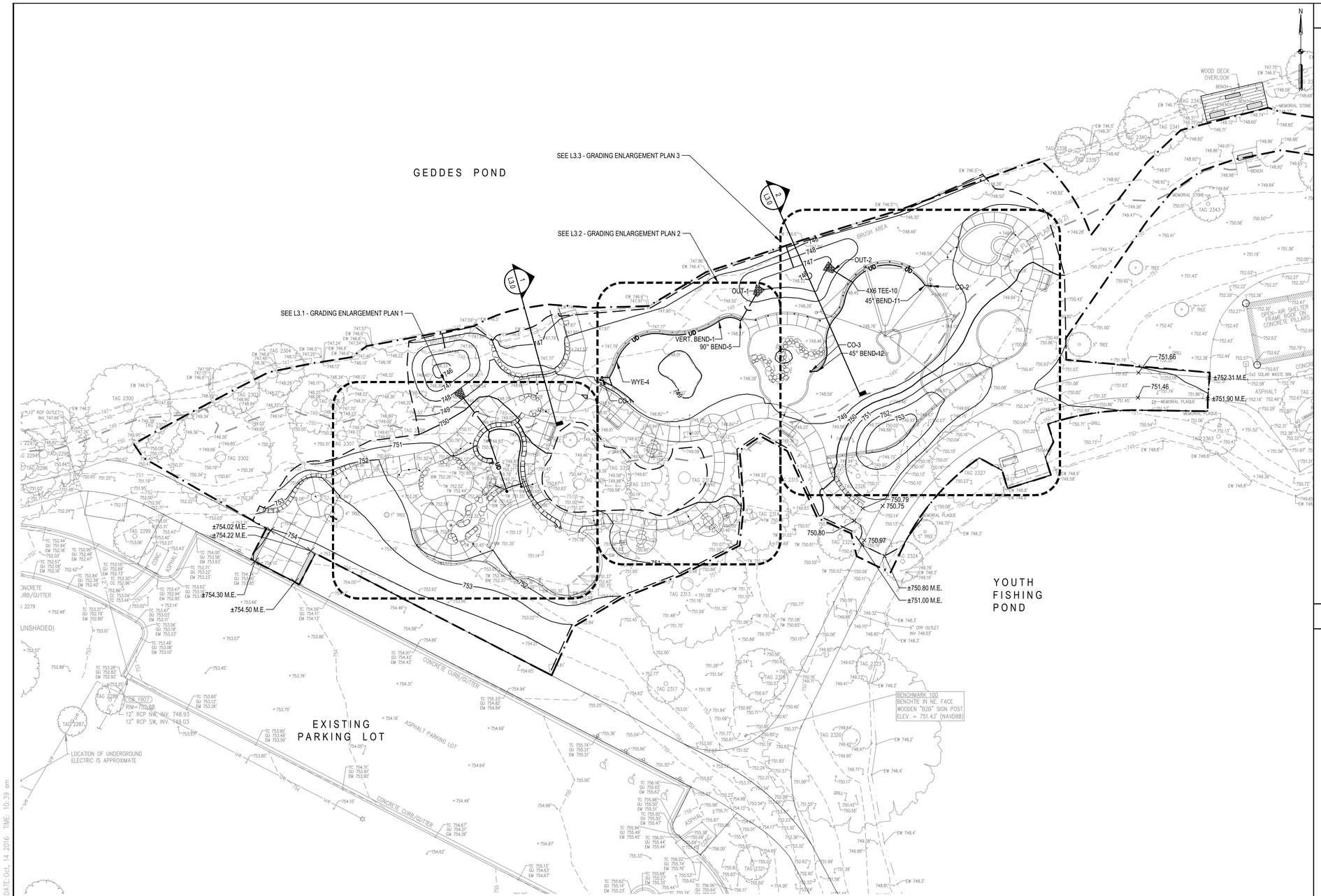
DRAWING TITLE
PLAY SURFACE LAYOUT

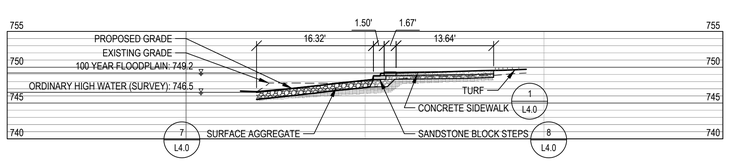
SCALE 1" = 10'

PROJECT NUMBER 20678.000

DRAWING NUMBER L2.2

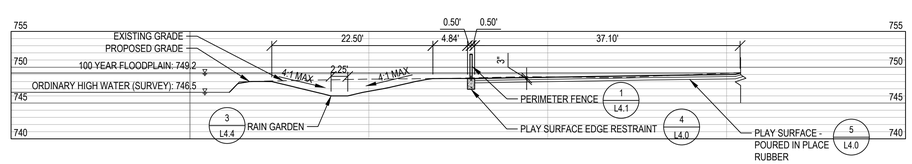
FILE:P:\20678.000\CAD\C\Sheet\20678-LAYOUT-SHT.dwg USER: jyoung DATE:Oct. 14 2016 TIME: 09:17 am





1 SITE SECTION 1 (KAYAK AREA)

SCALE: 1" = 10'



2 SITE SECTION 2 (RIVER AREA)

SCALE: 1" = 10'

SHEET NOTES

GRADING NOTES:

1. PROVIDE DRAINAGE AWAY FROM PLAY EQUIPMENT AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ENSURE ALL AREAS WILL DRAIN TO UNDERDRAIN WITHOUT STANDING OR PONDING WATER.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE SURVEY GRADES AND THE ACTUAL SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE MODIFIED AS REQUIRED AND APPROVED.
3. PROVIDE MINIMUM CROSS-SLOPE OF 1%, MAXIMUM CROSS-SLOPE OF 2%, AND MAXIMUM LONGITUDINAL SLOPE OF 5% (EXCEPT WHERE NOTED) ON SIDEWALKS (INCLUSIVE OF ALL SPECIFIED TOLERANCES).
4. GRADE ALL PAVEMENT SURFACES UNIFORMLY BETWEEN SPOT ELEVATIONS NOTED ON THE PLANS. (EXCEPT WHERE NOTED OTHERWISE)
5. CONTRACTOR TO VERIFY ALL EXISTING SPOT ELEVATIONS ALONG LIMITS OF EXISTING AND NEW PAVEMENT WHERE THE GRADING PLANS NOTE MEET EXISTING (ME). NOTIFY THE OWNER'S REPRESENTATIVE OF ANY INCONSISTENCIES, DRAINAGE ISSUES, OR SLOPE DISCREPANCIES.
6. THE TOP OF WALLS SHALL BE LEVEL WITH CONSISTENT ELEVATION EXCEPT WHERE STEPS IN THE TOP COURSE AS SHOWN ON ON L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2. REFER TO L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2 FOR TOP OF WALL AND FINISH GRADE ELEVATIONS AT THE FRONT FACE OF THE WALL.

UTILITY NOTES:

1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN COMPLIANCE WITH PUBLIC ACT 174 OF 2013 OF THE STATE OF MICHIGAN (EFFECTIVE APRIL 1, 2014), AS AMENDED, NOTIFY IN ADVANCE OF CONSTRUCTION (A MINIMUM OF 72 HOURS, BUT NOT MORE THAN 14 CALENDAR DAYS) ALL PUBLIC AND PRIVATE UTILITY PROVIDERS HAVING FACILITIES IN OR NEAR THE IMMEDIATE WORKING AREA BY CALLING MISS DIG (1-800-482-7171). ALL EXISTING UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITY INFORMATION AND COORDINATION WITH SERVICE PROVIDERS.
2. VERIFY EXISTING UTILITY LINE AND STRUCTURE LOCATIONS AND DEPTHS IN THE FIELD. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND SURVEY TO THE OWNER'S REPRESENTATIVE.
3. REVIEW, PERMIT AND INSPECTION FEES REQUIRED TO PERFORM THE UTILITY WORK SHALL BE COORDINATED AND PAID BY THE CONTRACTOR.
4. PIPE LENGTHS SHOWN ARE CENTER TO CENTER OF STRUCTURE.

LEGEND

- LIMITS OF DISTURBANCE
- 865 — EXISTING MAJOR CONTOUR
- 864 — EXISTING MINOR CONTOUR
- 861.50 — EXISTING SPOT ELEVATION
- 865 — PROPOSED MAJOR CONTOUR
- 864 — PROPOSED MINOR CONTOUR
- GRADING LIMITS
- GRADE BREAK LINE
- 2.5% — DRAINAGE SLOPE
- 861.50 — PROPOSED SPOT ELEVATION
- 861.50 M.E. — SPOT ELEVATION MATCH EXISTING GRADE
- T/C 861.50 — TOP OF CURB ELEVATION
- T/W 861.50 — TOP OF WALL ELEVATION
- B/W 861.50 — BOTTOM OF WALL ELEVATION
- UD — 4" HDPE PERFORATED UNDERDRAIN
- 6" HDPE STORM
- CLEANOUT

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AS-BUILT DIMENSIONS TO BE ACCURATE. THEY MUST BE ASSUMED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 10' 20' 40'

DRAWING TITLE
GRADING AND DRAINAGE PLAN

SCALE 1" = 20'

PROJECT NUMBER 20678.000

DRAWING NUMBER L3.0

FILE:P:\20678.000\CAD\C\Sheet\20678-GRAD-SHT.dwg USER: jyoung DATE:Oct. 14 2016 TIME: 10:39 am

SHEET NOTES

GRADING NOTES:

1. PROVIDE DRAINAGE AWAY FROM PLAY EQUIPMENT AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ENSURE ALL AREAS WILL DRAIN TO UNDERDRAIN WITHOUT STANDING OR PONDING WATER.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE SURVEY GRADES AND THE ACTUAL SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE MODIFIED AS REQUIRED AND APPROVED.
3. PROVIDE MINIMUM CROSS-SLOPE OF 1%, MAXIMUM CROSS-SLOPE OF 2%, AND MAXIMUM LONGITUDINAL SLOPE OF 5% (EXCEPT WHERE NOTED) ON SIDEWALKS (INCLUSIVE OF ALL SPECIFIED TOLERANCES).
4. GRADE ALL PAVEMENT SURFACES UNIFORMLY BETWEEN SPOT ELEVATIONS NOTED ON THE PLANS. (EXCEPT WHERE NOTED OTHERWISE)
5. CONTRACTOR TO VERIFY ALL EXISTING SPOT ELEVATIONS ALONG LIMITS OF EXISTING AND NEW PAVEMENT WHERE THE GRADING PLANS NOTE MEET EXISTING (ME). NOTIFY THE OWNER'S REPRESENTATIVE OF ANY INCONSISTENCIES, DRAINAGE ISSUES, OR SLOPE DISCREPANCIES.
6. THE TOP OF WALLS SHALL BE LEVEL WITH CONSISTENT ELEVATION EXCEPT WHERE STEPS IN THE TOP COURSE AS SHOWN ON ON L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2. REFER TO L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2 FOR TOP OF WALL AND FINISH GRADE ELEVATIONS AT THE FRONT FACE OF THE WALL.

UTILITY NOTES:

1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN COMPLIANCE WITH PUBLIC ACT 174 OF 2013 OF THE STATE OF MICHIGAN (EFFECTIVE APRIL 1, 2014), AS AMENDED, NOTIFY IN ADVANCE OF CONSTRUCTION (A MINIMUM OF 72 HOURS, BUT NOT MORE THAN 14 CALENDAR DAYS) ALL PUBLIC AND PRIVATE UTILITY PROVIDERS HAVING FACILITIES IN OR NEAR THE IMMEDIATE WORKING AREA BY CALLING MISS DIG (1-800-482-7171). ALL EXISTING UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITY INFORMATION AND COORDINATION WITH SERVICE PROVIDERS.
2. VERIFY EXISTING UTILITY LINE AND STRUCTURE LOCATIONS AND DEPTHS IN THE FIELD. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND SURVEY TO THE OWNER'S REPRESENTATIVE.
3. REVIEW, PERMIT AND INSPECTION FEES REQUIRED TO PERFORM THE UTILITY WORK SHALL BE COORDINATED AND PAID BY THE CONTRACTOR.
4. PIPE LENGTHS SHOWN ARE CENTER TO CENTER OF STRUCTURE.

LEGEND

- LIMITS OF DISTURBANCE
- 865 — EXISTING MAJOR CONTOUR
- 864 — EXISTING MINOR CONTOUR
- 861.50 — EXISTING SPOT ELEVATION
- 865 — PROPOSED MAJOR CONTOUR
- 864 — PROPOSED MINOR CONTOUR
- GRADING LIMITS
- GRADE BREAK LINE
- 2.5% — DRAINAGE SLOPE
- 861.50 — PROPOSED SPOT ELEVATION
- 861.50 M.E. — SPOT ELEVATION MATCH EXISTING GRADE
- T/C 861.50 — TOP OF CURB ELEVATION
- T/W 861.50 — TOP OF WALL ELEVATION
- B/W 861.50 — BOTTOM OF WALL ELEVATION
- UD — 4" HDPE PERFORATED UNDERDRAIN
- 6" HDPE STORM
- CLEANOUT

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED AS EXACT LOCATIONS. IT MUST BE KEPT IN MIND THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 2.5' 5' 10'

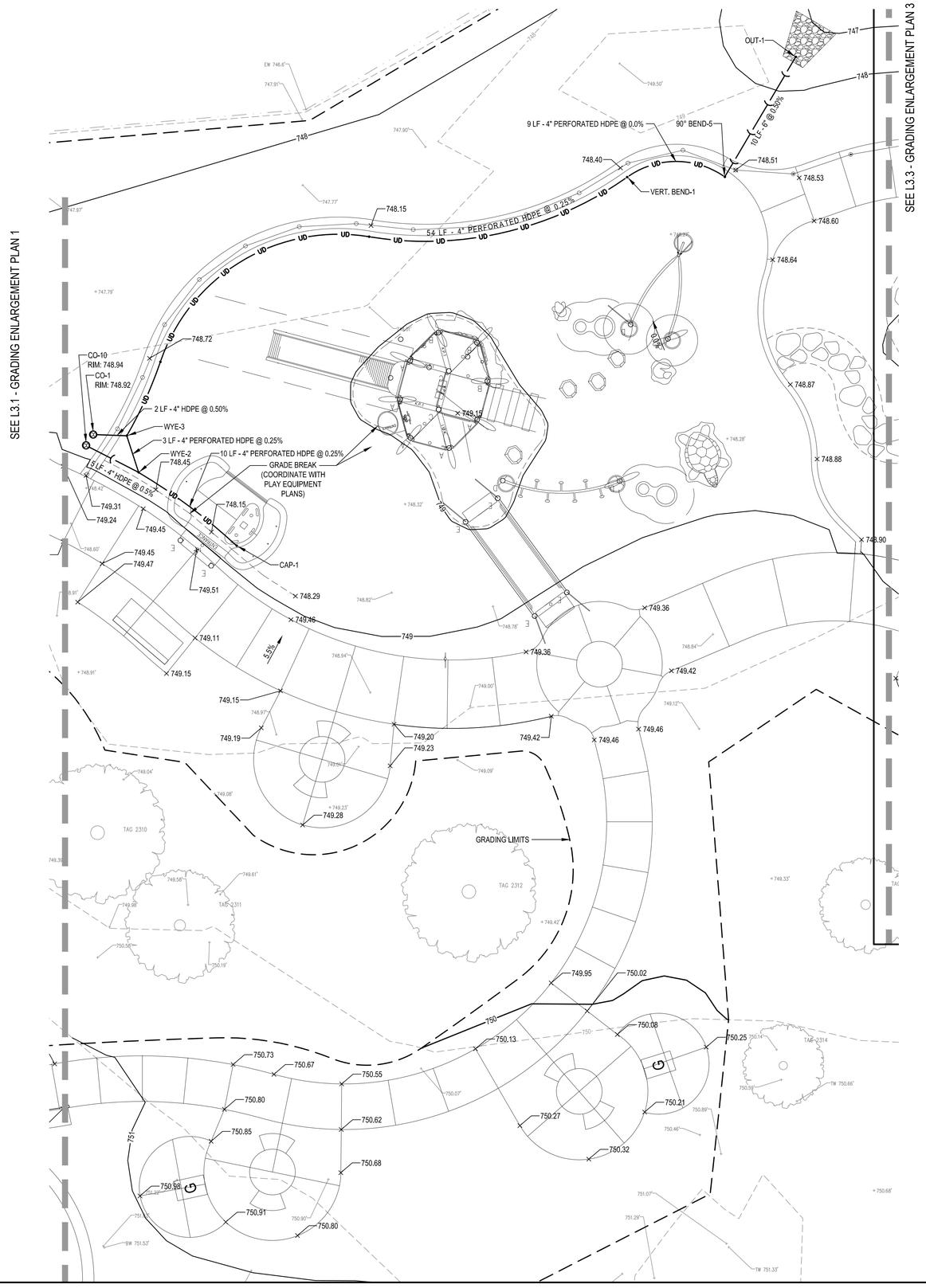
DRAWING TITLE
GRADING ENLARGEMENT PLAN 1

SCALE 1" = 5'

PROJECT NUMBER 20678.000

DRAWING NUMBER L3.1

FILE: P:\20678.000\CAD\C\Sheet\20678-GRAD-ENLG-SHT.dwg USER: jiyoung DATE: Oct. 14, 2016 TIME: 10:36 am



SHEET NOTES

GRADING NOTES:

1. PROVIDE DRAINAGE AWAY FROM PLAY EQUIPMENT AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ENSURE ALL AREAS WILL DRAIN TO UNDERDRAIN WITHOUT STANDING OR PONDING WATER.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE SURVEY GRADES AND THE ACTUAL SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE MODIFIED AS REQUIRED AND APPROVED.
3. PROVIDE MINIMUM CROSS-SLOPE OF 1%, MAXIMUM CROSS-SLOPE OF 2%, AND MAXIMUM LONGITUDINAL SLOPE OF 5% (EXCEPT WHERE NOTED) ON SIDEWALKS (INCLUSIVE OF ALL SPECIFIED TOLERANCES).
4. GRADE ALL PAVEMENT SURFACES UNIFORMLY BETWEEN SPOT ELEVATIONS NOTED ON THE PLANS. (EXCEPT WHERE NOTED OTHERWISE)
5. CONTRACTOR TO VERIFY ALL EXISTING SPOT ELEVATIONS ALONG LIMITS OF EXISTING AND NEW PAVEMENT WHERE THE GRADING PLANS NOTE MEET EXISTING (ME). NOTIFY THE OWNER'S REPRESENTATIVE OF ANY INCONSISTENCIES, DRAINAGE ISSUES, OR SLOPE DISCREPANCIES.
6. THE TOP OF WALLS SHALL BE LEVEL WITH CONSISTENT ELEVATION EXCEPT WHERE STEPS IN THE TOP COURSE AS SHOWN ON ON L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2. REFER TO L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2 FOR TOP OF WALL AND FINISH GRADE ELEVATIONS AT THE FRONT FACE OF THE WALL.

UTILITY NOTES:

1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN COMPLIANCE WITH PUBLIC ACT 174 OF 2013 OF THE STATE OF MICHIGAN (EFFECTIVE APRIL 1, 2014), AS AMENDED, NOTIFY IN ADVANCE OF CONSTRUCTION (A MINIMUM OF 72 HOURS, BUT NOT MORE THAN 14 CALENDAR DAYS) ALL PUBLIC AND PRIVATE UTILITY PROVIDERS HAVING FACILITIES IN OR NEAR THE IMMEDIATE WORKING AREA BY CALLING MISS DIG (1-800-482-7171). ALL EXISTING UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITY INFORMATION AND COORDINATION WITH SERVICE PROVIDERS.
2. VERIFY EXISTING UTILITY LINE AND STRUCTURE LOCATIONS AND DEPTHS IN THE FIELD. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND SURVEY TO THE OWNER'S REPRESENTATIVE.
3. REVIEW, PERMIT AND INSPECTION FEES REQUIRED TO PERFORM THE UTILITY WORK SHALL BE COORDINATED AND PAID BY THE CONTRACTOR.
4. PIPE LENGTHS SHOWN ARE CENTER TO CENTER OF STRUCTURE.

LEGEND

- LIMITS OF DISTURBANCE
- 865 — EXISTING MAJOR CONTOUR
- 864 — EXISTING MINOR CONTOUR
- 861.50 — EXISTING SPOT ELEVATION
- 865 — PROPOSED MAJOR CONTOUR
- 864 — PROPOSED MINOR CONTOUR
- GRADING LIMITS
- GRADE BREAK LINE
- 2.5% — DRAINAGE SLOPE
- 861.50 — PROPOSED SPOT ELEVATION
- 861.50 M.E. — SPOT ELEVATION MATCH EXISTING GRADE
- T/C 861.50 — TOP OF CURB ELEVATION
- T/W 861.50 — TOP OF WALL ELEVATION
- B/W 861.50 — BOTTOM OF WALL ELEVATION
- UD — 4" HDPE PERFORATED UNDERDRAIN
- 6" HDPE STORM
- CLEANOUT

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 2.5' 5' 10'

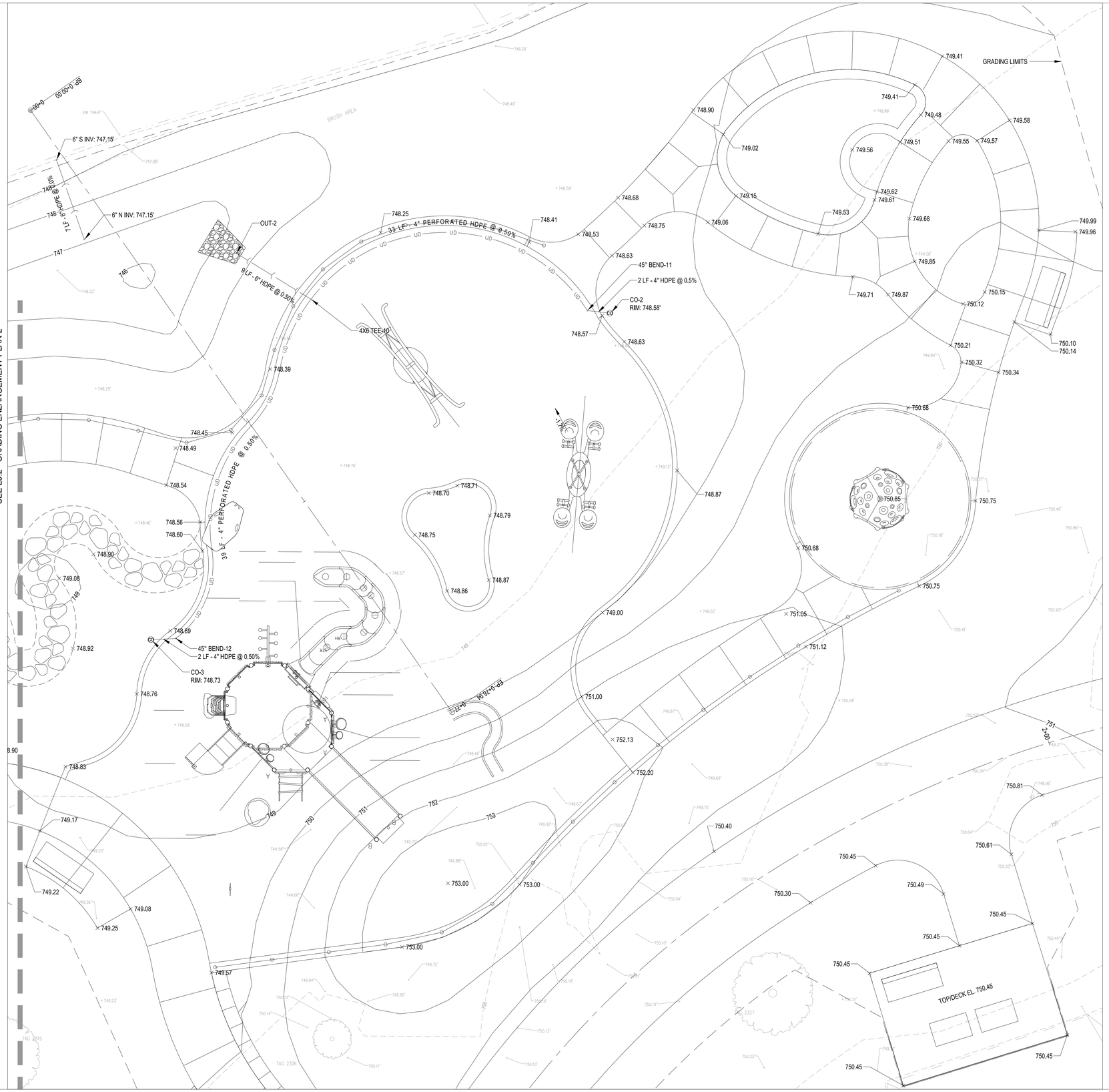
DRAWING TITLE
GRADING ENLARGEMENT PLAN 2

SCALE 1" = 5'

PROJECT NUMBER 20678.000

DRAWING NUMBER L3.2

FILE:P:\20678.000\CAD\C\Sheet\20678-GRAD-ENLG-SHT.dwg USER:jpoung DATE:Oct 14 2016 TIME: 10:34 am



SHEET NOTES

GRADING NOTES:

1. PROVIDE DRAINAGE AWAY FROM PLAY EQUIPMENT AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ENSURE ALL AREAS WILL DRAIN TO UNDERDRAIN WITHOUT STANDING OR PONDING WATER.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN THE SURVEY GRADES AND THE ACTUAL SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE MODIFIED AS REQUIRED AND APPROVED.
3. PROVIDE MINIMUM CROSS-SLOPE OF 1%, MAXIMUM CROSS-SLOPE OF 2%, AND MAXIMUM LONGITUDINAL SLOPE OF 5% (EXCEPT WHERE NOTED) ON SIDEWALKS (INCLUSIVE OF ALL SPECIFIED TOLERANCES).
4. GRADE ALL PAVEMENT SURFACES UNIFORMLY BETWEEN SPOT ELEVATIONS NOTED ON THE PLANS. (EXCEPT WHERE NOTED OTHERWISE)
5. CONTRACTOR TO VERIFY ALL EXISTING SPOT ELEVATIONS ALONG LIMITS OF EXISTING AND NEW PAVEMENT WHERE THE GRADING PLANS NOTE MEET EXISTING (ME). NOTIFY THE OWNER'S REPRESENTATIVE OF ANY INCONSISTENCIES, DRAINAGE ISSUES, OR SLOPE DISCREPANCIES.
6. THE TOP OF WALLS SHALL BE LEVEL WITH CONSISTENT ELEVATION EXCEPT WHERE STEPS IN THE TOP COURSE AS SHOWN ON ON L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2. REFER TO L4.5 - SITE WALL DETAILS AND ELEVATIONS 1 AND L4.6 - SITE WALL DETAILS AND ELEVATIONS 2 FOR TOP OF WALL AND FINISH GRADE ELEVATIONS AT THE FRONT FACE OF THE WALL.

UTILITY NOTES:

1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN COMPLIANCE WITH PUBLIC ACT 174 OF 2013 OF THE STATE OF MICHIGAN (EFFECTIVE APRIL 1, 2014), AS AMENDED, NOTIFY IN ADVANCE OF CONSTRUCTION (A MINIMUM OF 72 HOURS, BUT NOT MORE THAN 14 CALENDAR DAYS) ALL PUBLIC AND PRIVATE UTILITY PROVIDERS HAVING FACILITIES IN OR NEAR THE IMMEDIATE WORKING AREA BY CALLING MISS DIG (1-800-482-7171). ALL EXISTING UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITY INFORMATION AND COORDINATION WITH SERVICE PROVIDERS.
2. VERIFY EXISTING UTILITY LINE AND STRUCTURE LOCATIONS AND DEPTHS IN THE FIELD. REPORT DISCREPANCIES BETWEEN FIELD CONDITIONS AND SURVEY TO THE OWNER'S REPRESENTATIVE.
3. REVIEW, PERMIT AND INSPECTION FEES REQUIRED TO PERFORM THE UTILITY WORK SHALL BE COORDINATED AND PAID BY THE CONTRACTOR.
4. PIPE LENGTHS SHOWN ARE CENTER TO CENTER OF STRUCTURE.

LEGEND

	LIMITS OF DISTURBANCE
865	EXISTING MAJOR CONTOUR
864	EXISTING MINOR CONTOUR
861.50	EXISTING SPOT ELEVATION
865	PROPOSED MAJOR CONTOUR
864	PROPOSED MINOR CONTOUR
	GRADING LIMITS
	GRADE BREAK LINE
2.5%	DRAINAGE SLOPE
861.50	PROPOSED SPOT ELEVATION
861.50 M.E.	SPOT ELEVATION MATCH EXISTING GRADE
T/C 861.50	TOP OF CURB ELEVATION
T/W 861.50	TOP OF WALL ELEVATION
B/W 861.50	BOTTOM OF WALL ELEVATION
UD	4" HDPE PERFORATED UNDERDRAIN
	6" HDPE STORM
CO	CLEANOUT

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR IT SHOULD BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 2.5' 5' 10'

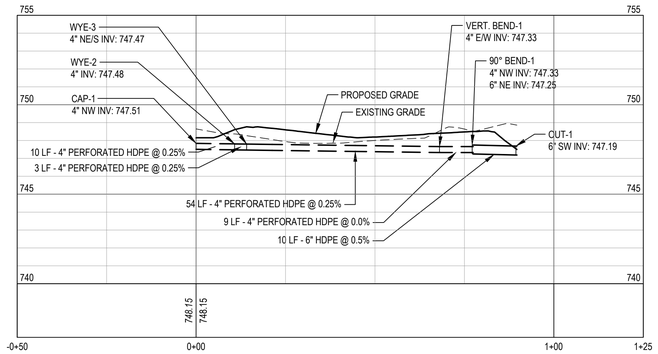
DRAWING TITLE
GRADING
ENLARGEMENT PLAN 3

SCALE 1" = 5'

PROJECT NUMBER 20678.000

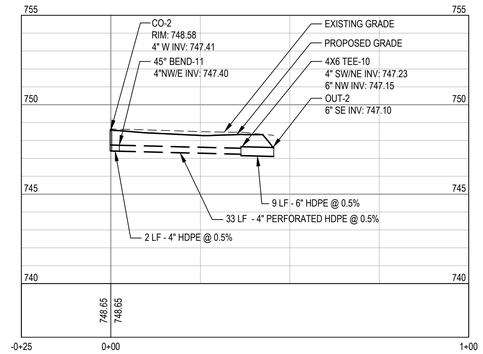
DRAWING NUMBER L3.3

FILE: P:\20678.000\CAD\C\Sheet\20678-GRAD-ENLG-SHT.dwg USER: jpoung DATE: Oct. 14 2016 TIME: 10:32 am



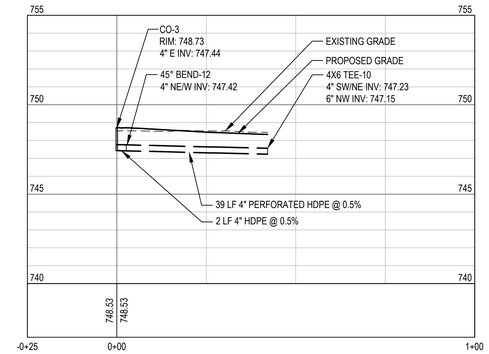
1 CAP-1 TO OUT-1 PROFILE

SCALE: HORZ: 1" = 20', VERT: 1"=4'



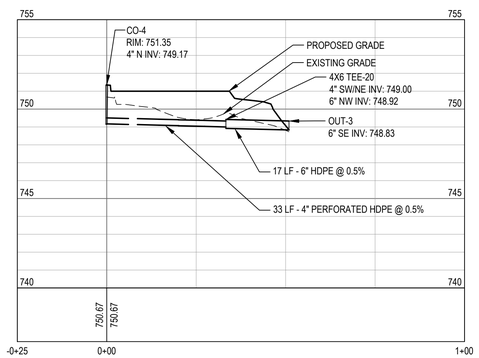
2 CO-2 TO OUT-2 PROFILE

SCALE: HORZ: 1" = 20', VERT: 1"=4'



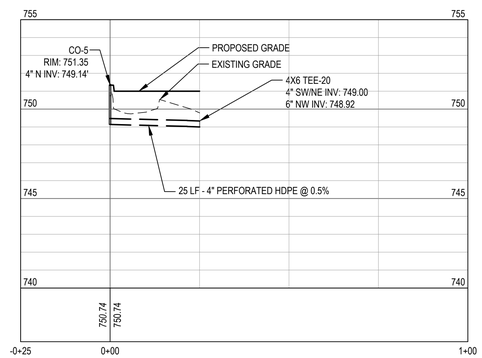
3 CO-3 TO 4X6 TEE-10

SCALE: HORZ: 1" = 20', VERT: 1"=4'



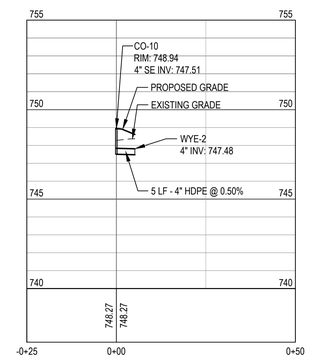
4 CO-4 TO OUT-3

SCALE: HORZ: 1" = 20', VERT: 1"=4'



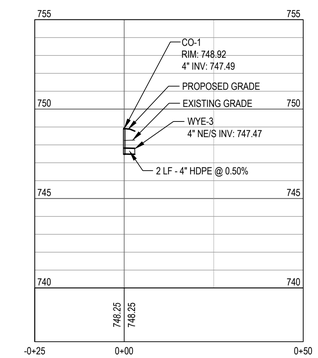
5 CO-5 TO 4X6 TEE-20

SCALE: HORZ: 1" = 20', VERT: 1"=4'



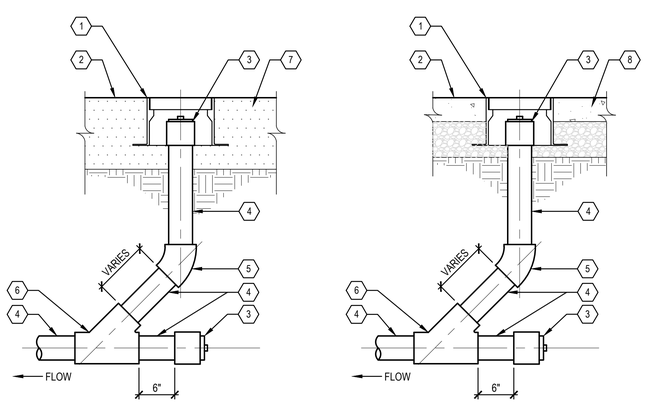
6 CO-10 TO WYE-2

SCALE: HORZ: 1" = 20', VERT: 1"=4'



7 CO-1 TO WYE-3

SCALE: HORZ: 1" = 20', VERT: 1"=4'



CLEANOUT IN PLANTING AREAS

CLEANOUT IN CONCRETE PAVEMENT

1. CLEANOUT COVER EJIW #1565, OR APPROVED EQUAL, FLUSH WITH FINISH GRADE IN PAVED AREAS AND 1" ABOVE GRADE IN PLANTING AREAS.
2. FINISH GRADE
3. THREADED PLUG END
4. 4" PIPE, LENGTH AS REQUIRED
5. 4"X45° BEND
6. 4X4X4 WYE
7. PLANTING AREA
8. CONCRETE SIDEWALK (1 / L4.0)

6 CLEANOUT

SCALE: 1"=1'

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS AND/OR AVAILABLE RECORDS. THE LOCATIONS ARE NOT TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

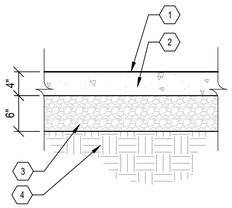
DRAWING TITLE
UTILITY PROFILES AND DETAILS

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

DRAWING NUMBER: L3.4

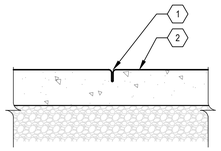
FILE:P:\20678.000\CAD\C\Sheet\20678-UTIL_SHT.dwg USER: jyoung DATE: Oct. 14, 2016 TIME: 10:28 am



1. LIGHT BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL
2. CONCRETE SIDEWALK
3. NATURAL AGGREGATE BASE, MDOT 21AA
4. COMPACTED SUBGRADE

1 CONCRETE SIDEWALK

SCALE: 1" = 1'

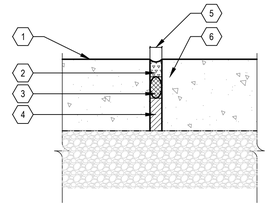


1. 1/4" TOOLED CONTROL JOINT 1/4 DEPTH OF PAVEMENT
2. CONCRETE SIDEWALK

NOTES:
1. MAXIMUM DIMENSION BETWEEN CONTROL JOINTS IN SIDEWALKS, CURBS, WALLS, ETC. TO BE 10'-0".

2 CONTROL JOINT

SCALE: 1" = 1'

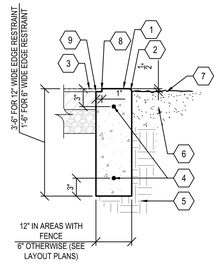


1. TOP OF PAVEMENT
2. JOINT SEALANT
3. FOAM BACKER ROD
4. JOINT FILLER MATERIAL
5. 1/2" UNLESS NOTED OTHERWISE
6. CONCRETE SIDEWALK

NOTES:
1. ALL ISOLATION JOINTS TO BE SEALED.
2. THERE SHALL BE 1/2" SEALED ISOLATION JOINTS AT ANY FIXED OBJECTS (I.E. EXISTING PAVEMENT, WALLS, POLES, AND FOUNDATIONS) AND ALL LOCATIONS SHOWN ON JOINTING PLANS.
3. THE MAXIMUM DIMENSION BETWEEN SEALED ISOLATION JOINTS IN PAVEMENT AND WALLS TO BE 60'-0". THE MAXIMUM DISTANCE BETWEEN SEALED ISOLATION JOINTS IN CURBS TO BE 120'-0".

3 ISOLATION JOINT

NTS

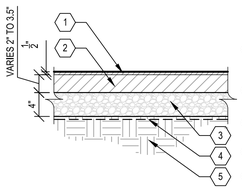


NOTE:
SPACE CONTROL JOINTS EVENLY AT 10' O.C. MAX.

1. CAST-IN-PLACE CONCRETE
2. 1/2" RADIUS
3. PLAY SURFACE - POURED IN PLACE RUBBER (5 / L4.0)
4. #4 BAR, CONTINUOUS, TYP
5. COMPACTED SUBGRADE
6. PLANTING SOIL OR MULCH
7. FINISH GRADE
8. WEARING COURSE KEYWAY IN PLAY SURFACE EDGE
9. LIMITS OF PLAY SURFACE SHOWN ON LAYOUT AND MATERIALS PLAN

4 PLAY SURFACE EDGE RESTRAINT

SCALE: 1" = 1'

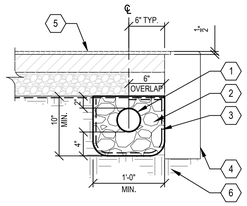


1. POURED IN PLACE RUBBER WEAR COURSE
2. POURED IN PLACE RUBBER BASE MAT
3. NATURAL AGGREGATE BASE, MDOT 21AA
4. GEOTEXTILE FABRIC
5. COMPACTED SUBGRADE

NOTES:
1. PROVIDE POURED IN PLACE RUBBER THICKNESS PER MANUFACTURER'S RECOMMENDATIONS BASED ON FALL HEIGHTS BELOW. MANUFACTURER VITRITURF, OR APPROVED EQUAL.
2. BASE MAT THICKNESS (VITRITURF):
   - WOODLAND AREA (6' FALL HEIGHT): 2.5"
   - RIVER AREA (6' FALL HEIGHT): 2.5"
   - PRAIRIE AREA (10' FALL HEIGHT): 4.5"
   - COZY DOME (4' FALL HEIGHT): 2"
2. INSTALL PLAY SURFACE - POURED IN PLACE RUBBER PER MANUFACTURER'S RECOMMENDATION. SEE GRADING PLAN FOR TOP OF WEARING COURSE ELEVATIONS.
3. INSTALL GEOTEXTILE FABRIC BELOW AGGREGATE BASE PER MANUFACTURER'S RECOMMENDATION.

5 PLAY SURFACE - POURED IN PLACE RUBBER

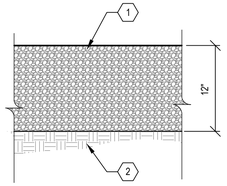
SCALE: 1" = 1'



1. 4" PERFORATED HDPE
2. DRAINAGE AGGREGATE
3. GEOTEXTILE FABRIC
4. PLAY SURFACE EDGE RESTRAINT (4 / L4.0)
5. PLAY SURFACE - POURED IN PLACE RUBBER (5 / L4.0)
6. COMPACTED SUBGRADE

6 PLAY SURFACE UNDERDRAIN

SCALE: 1" = 1'

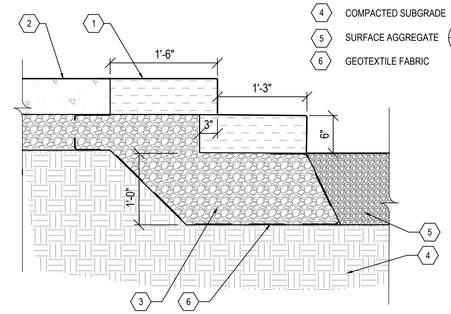


1. AGGREGATE SURFACE (MDOT 34G/34R BLEND. USE 20%-30% CRUSHED STONE).
2. COMPACTED SUBGRADE

NOTES:
1. DO NOT PLACE GEOTEXTILE FABRIC BENEATH AGGREGATE SURFACE.

7 SURFACE AGGREGATE

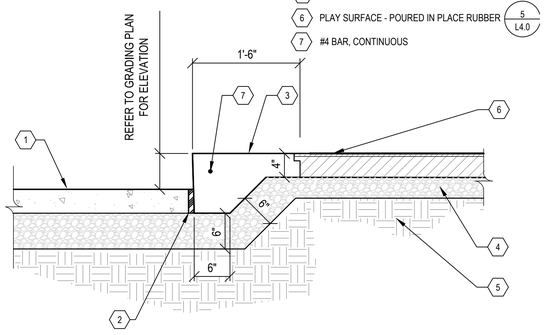
N.T.S.



1. SANDSTONE BLOCK
2. CONCRETE SIDEWALK
3. NATURAL AGGREGATE BASE, MDOT 21AA
4. COMPACTED SUBGRADE
5. SURFACE AGGREGATE (7 / L4.0)
6. GEOTEXTILE FABRIC

8 SANDSTONE BLOCK STEPS

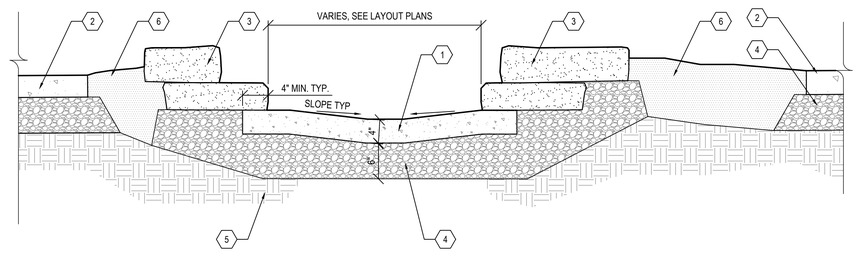
1" = 1'



1. CONCRETE SIDEWALK (1 / L4.0)
2. EXPANSION JOINT
3. CONCRETE WALK, THICKENED EDGE
4. NATURAL AGGREGATE BASE, MDOT 21AA
5. COMPACTED SUBGRADE
6. PLAY SURFACE - POURED IN PLACE RUBBER (5 / L4.0)
7. #4 BAR, CONTINUOUS

9 CONCRETE STEP

1" = 1'

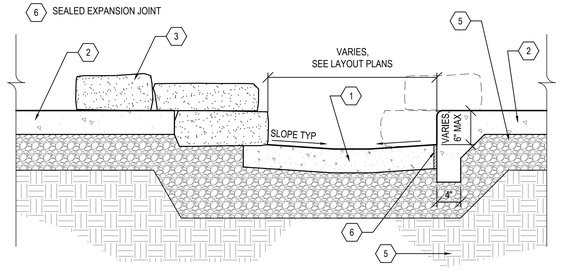


1. CAST IN PLACE CONCRETE WATER RUNNEL
2. CONCRETE SIDEWALK (1 / L4.0)
3. SANDSTONE BLOCK
4. NATURAL AGGREGATE BASE, MDOT 21AA
5. COMPACTED SUBGRADE
6. PLANT MIX

NOTES:
1. SEE GRADING PLAN ENLARGEMENTS FOR ELEVATIONS OF WATER RUNNEL.
2. PLACE MORTAR BEDDING BETWEEN LAYERS OF LEDGE ROCK TO ANCHOR ROCK TOGETHER. LEAVE HEAD JOINTS OPEN (NO MORTAR).
3. CONTRACTOR SHALL FABRICATE A PARTIAL MOCKUP OF LEDGE STONE IN THE FIELD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

10 WATER RUNNEL

1" - 1'

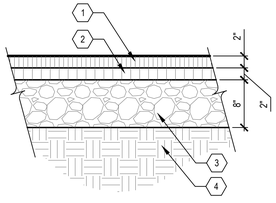


1. CAST IN PLACE CONCRETE WATER RUNNEL
2. CONCRETE SIDEWALK (1 / L4.0)
3. SANDSTONE BLOCK
4. NATURAL AGGREGATE BASE, MDOT 21AA
5. COMPACTED SUBGRADE
6. SEALED EXPANSION JOINT

NOTES:
1. SEE GRADING PLAN ENLARGEMENTS FOR ELEVATIONS OF WATER RUNNEL.
2. PLACE MORTAR BEDDING BETWEEN LAYERS OF LEDGE ROCK TO ANCHOR ROCK TOGETHER. LEAVE HEAD JOINTS OPEN (NO MORTAR).
3. CONTRACTOR SHALL FABRICATE A PARTIAL MOCKUP OF LEDGE STONE IN THE FIELD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

11 WATER RUNNEL

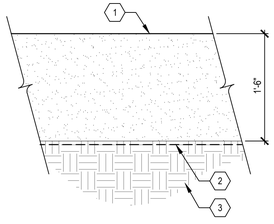
1" - 1'



1. HMA WEARING COURSE
2. HMA LEVELING COURSE
3. AGGREGATE BASE
4. COMPACTED SUBGRADE

12 ASPHALT PAVEMENT

1"=1'



1. SAND
2. NON-WOVEN GEOTEXTILE FABRIC
3. SUBGRADE

13 PLAYGROUND SAND

1"=1'

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS AS PROVIDED BY THE APPROPRIATE UTILITY COMPANIES. THEY ARE NOT TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

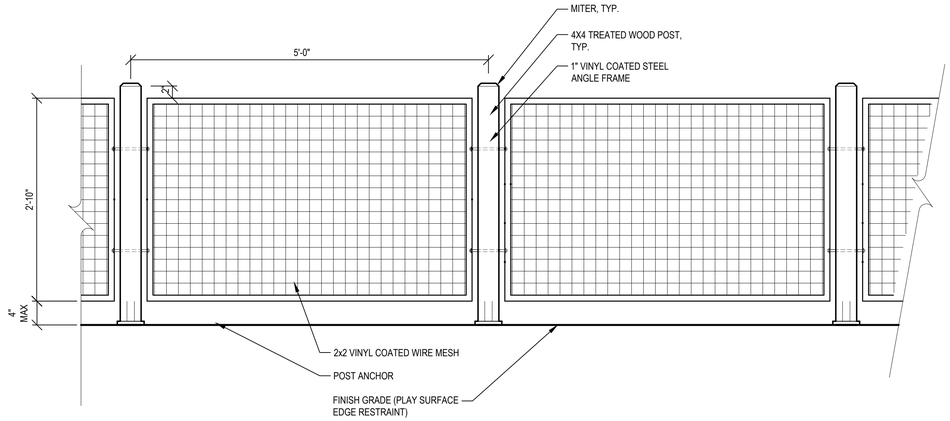
DRAWING TITLE
SITE DETAILS 1

SCALE: AS NOTED

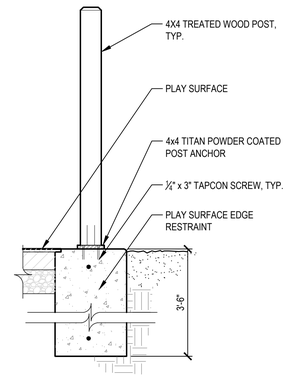
PROJECT NUMBER: 20678.000

DRAWING NUMBER: L4.0

FILE:P:\20678.000\CAD\C\Sheet\20678-DETL-SITE-SHT.dwg USER: jyoung DATE: Oct. 14, 2016 TIME: 12:53 pm



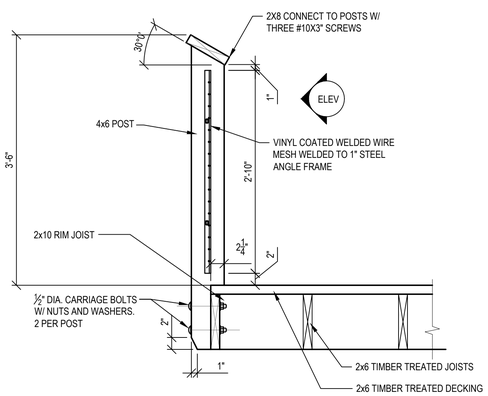
ELEVATION

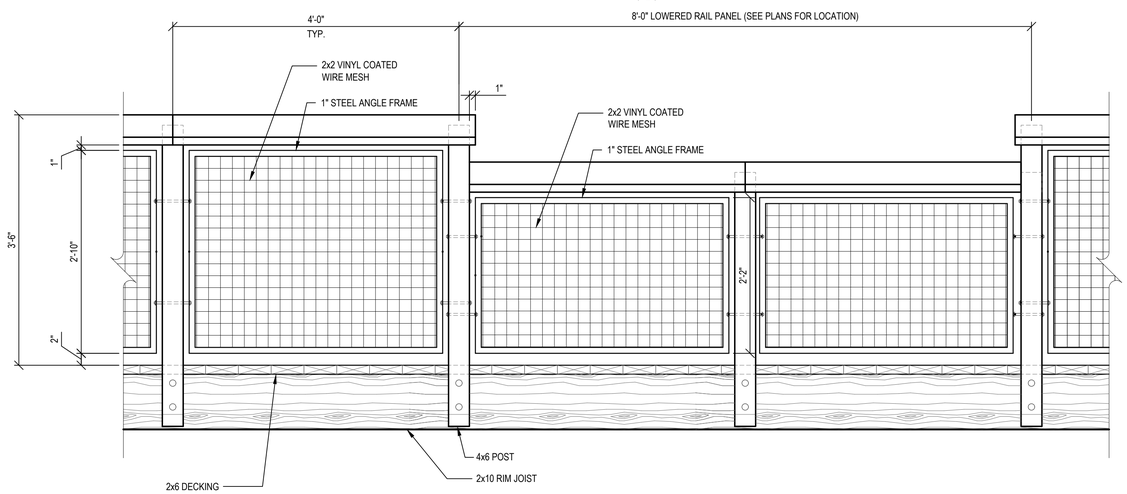


SECTION

1 PERIMETER FENCE

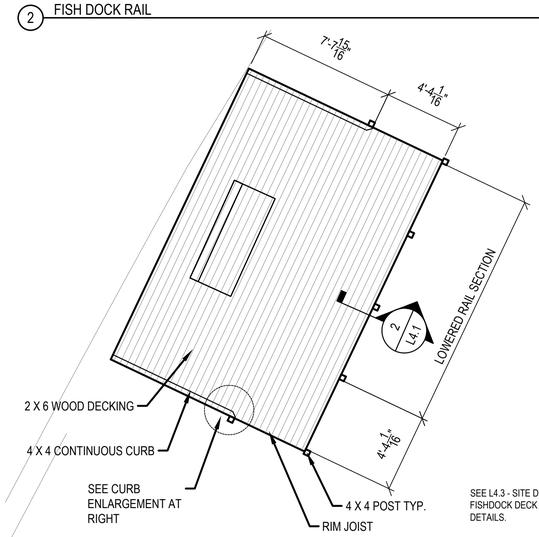
1" = 1'





2 FISH DOCK RAIL

1" = 1'

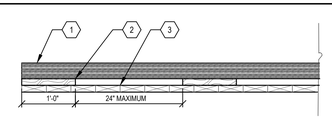


SEE L4.3 - SITE DETAILS 4 FOR FISHDOCK DECK FRAMING PLAN DETAILS.

SCALE: 1/4" = 1'

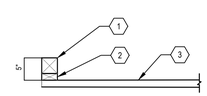
3 FISHDOCK DECK ENLARGEMENT PLAN

AS NOTED

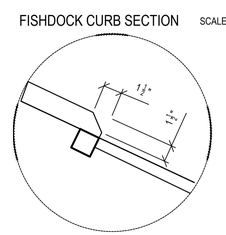


FISHDOCK CURB ELEVATION SCALE: 3/4" = 1'

1. 4 X 4 CURB RAIL CONTINUOUS
2. 2 X 4 SPACER
3. 2 X 6 DECKING



FISHDOCK CURB SECTION SCALE: 3/4" = 1'



CURB ENLARGEMENT SCALE: 1/4" = 1'

FILE: P:\20678.000\CAD\C\Sheet\20678-DETL-SITE-SHT.dwg USER: jiyoung DATE: Oct. 14, 2016 TIME: 08:56 am

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

DRAWING TITLE
SITE DETAILS 2

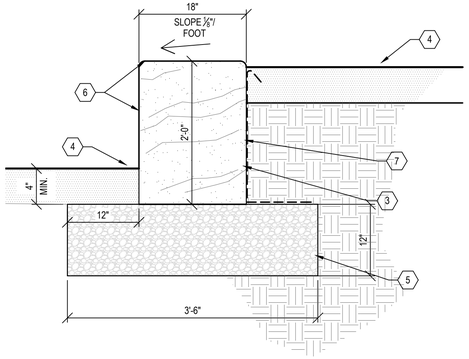
SCALE: AS NOTED

PROJECT NUMBER: 20678.000

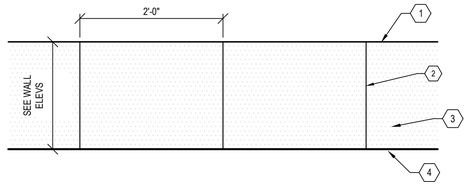
DRAWING NUMBER: L4.1

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.



SECTION



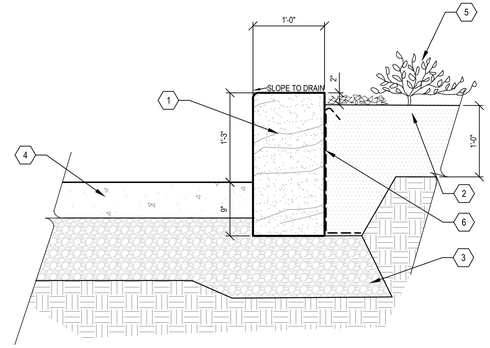
ELEVATION

NOTE:
1. SEE WALL ELEVATIONS FOR MORE INFORMATION.
2. SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
3. FABRICATE MOCKUP FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. MOCKUP MAY BE PERFORMED AS PART OF THE WORK.

1. TOP OF WALL - SEE WALL ELEVATIONS PLAN
2. HAND TIGHT JOINT, TYP.
3. GRANITE
4. FINISH GRADE
5. NATURAL AGGREGATE BASE, MDOT 21AA
6. THERMAL FINISH ON TOP OF WALL. SPLIT FACE FINISH, ALL OTHER EXPOSED FACES
7. GEOTEXTILE FABRIC CONTINUOUS ALONG BACK OF WALL

1 GRANITE WALL

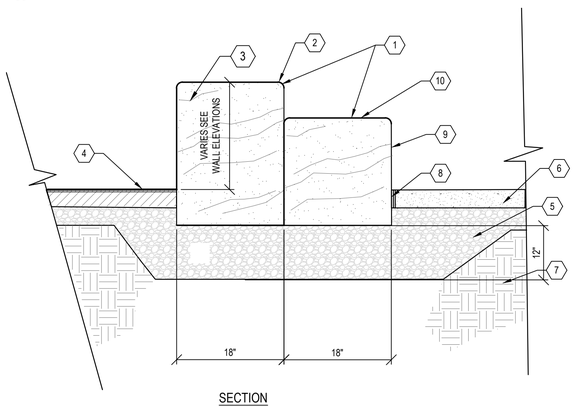
1" = 1'



1. GRANITE
2. PLANT MIX
3. NATURAL AGGREGATE BASE, MDOT 21AA
4. CONCRETE SIDEWALK
5. SENSORY GARDEN PLANTINGS- SEE PLANTING PLAN
6. GEOTEXTILE FABRIC CONT. ALONG BACK OF WALL FACE

2 SENSORY GARDEN WALL

1" = 1'



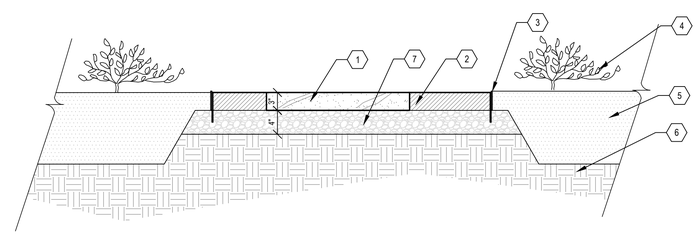
SECTION

1. TOP OF WALL - SEE WALL ELEVATIONS PLAN FOR WALL 'F'
2. RADIUS OR CHAMFERED CORNER, TYP.
3. GRANITE
4. PLAY SURFACE - POURED IN PLACE RUBBER
5. NATURAL AGGREGATE BASE, MDOT 21AA
6. CONCRETE SIDEWALK
7. COMPACTED SUBGRADE
8. SEALED EXPANSION JOINT
9. SPLIT FACE FINISH TYP.
10. THERMAL TOP FINISH

NOTE:
1. SEE WALL ELEVATIONS FOR MORE INFORMATION.
2. SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
3. FABRICATE MOCKUP FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. MOCKUP MAY

3 WALL 'F' SECTION

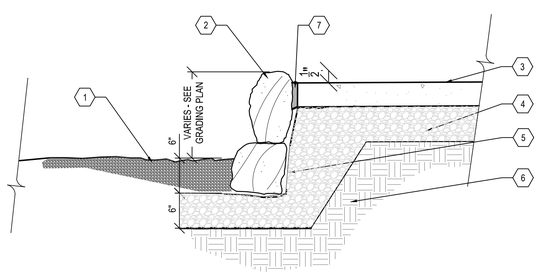
1" = 1'



1. SANDSTONE FLAGGING
2. DECOMPOSED GRANITE WITH STABILIZER
3. $\frac{3}{16}$" X 4" METAL EDGING (STEEL)
4. PLANT BED
5. PLANT MIX (12" MIN. DEPTH)
6. COMPACTED SUBGRADE
7. NATURAL AGGREGATE BASE, MDOT 21AA

4 FLAGSTONE STEPPERS

1" = 1'



1. SURFACE AGGREGATE (7 / L4.0)
2. GLACIAL BOULDER
3. FINISH GRADE (CONCRETE SIDEWALK) (1 / L4.0)
4. NATURAL AGGREGATE BASE, MDOT 21AA
5. GEOTEXTILE FABRIC
6. COMPACTED SUBGRADE
7. NON-SHRINK GROUT

NOTE:
CONTRACTOR TO INSTALL MORTAR IN SELECT LOCATION BETWEEN BOULDERS TO PREVENT DISPLACEMENT OF STONE. IT IS NOT INTENDED THAT ALL JOINTS BE FULLY MORTARED SO THE WALL MAINTAINS A DRY LAID LOOK.

5 BOULDER WALL AT KAYAK PLATFORM

1" = 1'

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

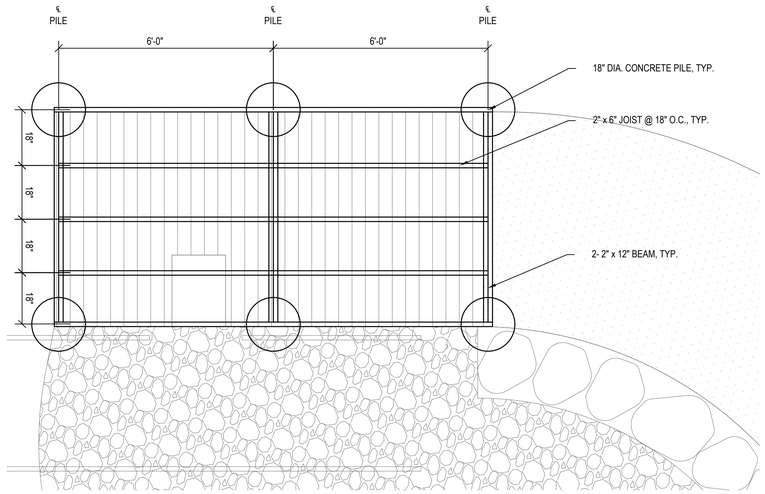
DRAWING TITLE
SITE DETAILS 3

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

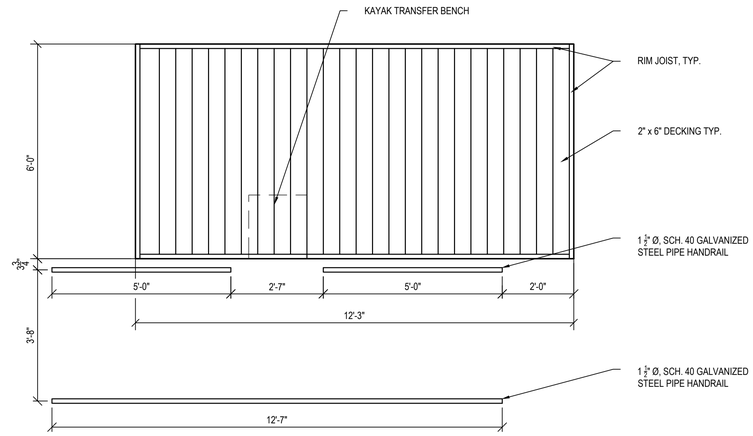
DRAWING NUMBER: L4.2

FILE:P:\20678.000\CAD\C\Sheet\20678-DETL-SITE-SHT.dwg USER:jpyung DATE:Oct. 14, 2016 TIME: 09:36 am



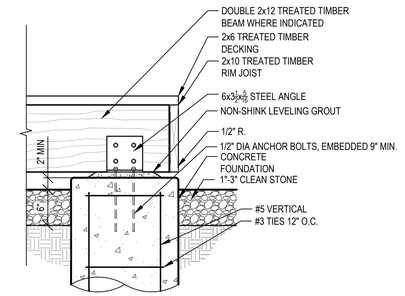
1 KAYAK PLATFORM FRAMING PLAN

1/2" = 1'-0"



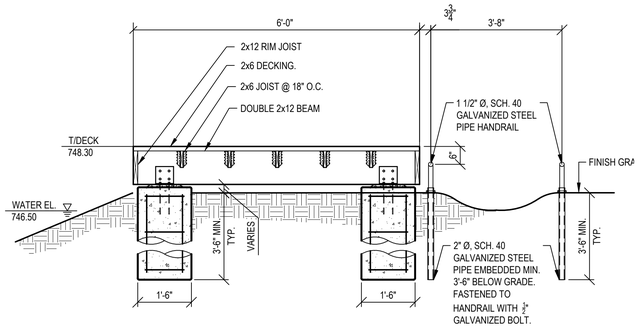
2 KAYAK PLATFORM DECKING PLAN

1/2" = 1'-0"



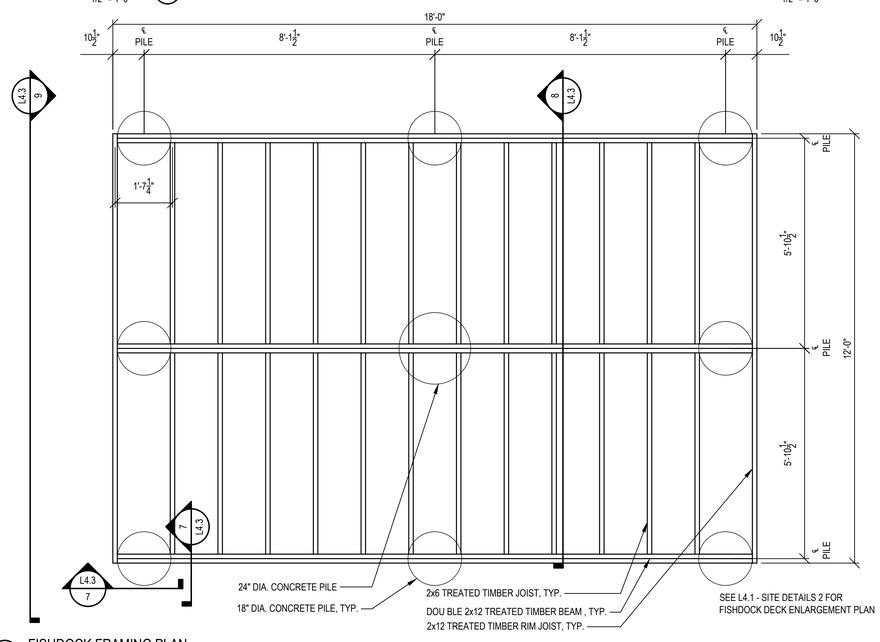
3 KAYAK PLATFORM BEAM TO FOUNDATION CONNECTION

1" = 1'-0"



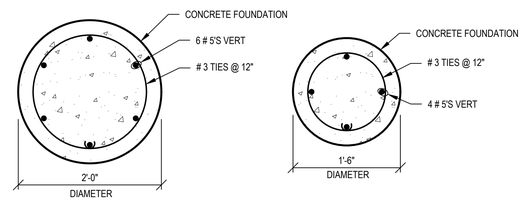
4 KAYAK PLATFORM SECTION

1/2" = 1'-0"



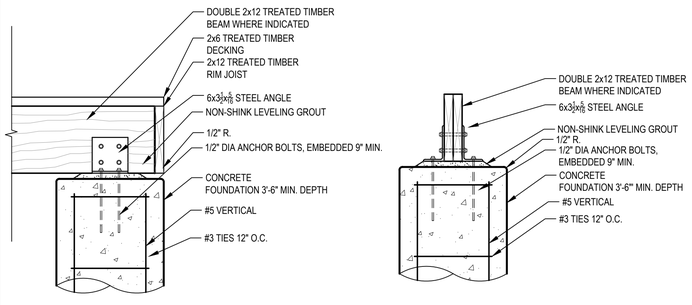
5 FISHDOCK FRAMING PLAN

1/2" = 1'-0"



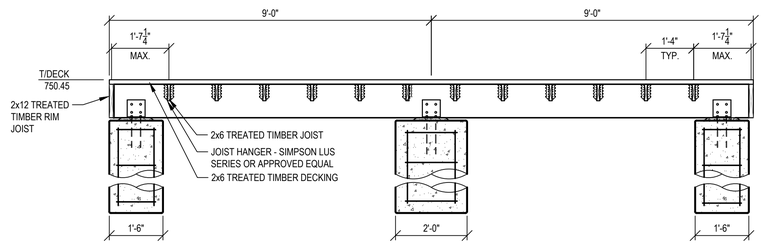
6 CONCRETE FOUNDATION REINFORCEMENT

1" = 1'-0"



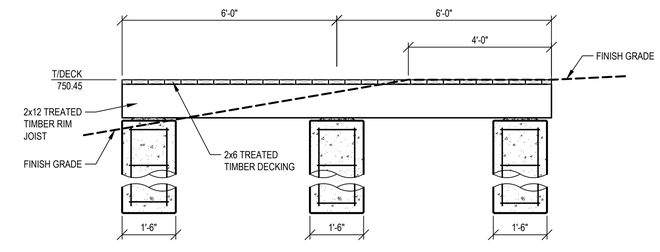
7 FISHDOCK BEAM TO FOUNDATION CONNECTION

1" = 1'-0"



8 FISHDOCK SECTION

1" = 1'-0"



9 FISHDOCK ELEVATION

1" = 1'-0"

811 Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

FILE:P:\20678.000\CAD\C\Sheet\20678-DETL-SITE-SHT.dwg USER:jyoung DATE:Oct. 14, 2016 TIME: 12:55 pm

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

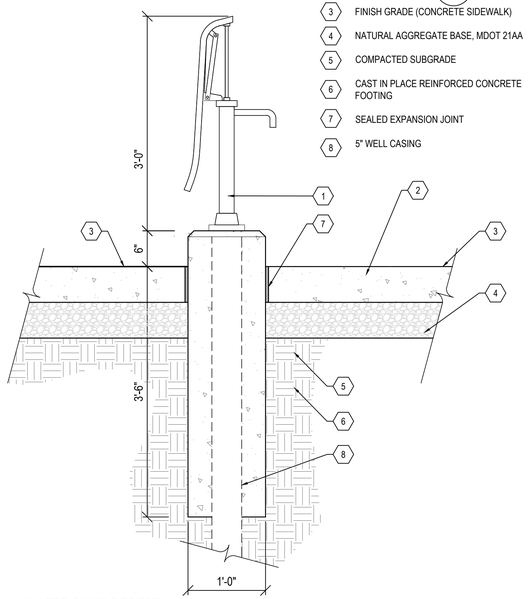
KEY PLAN

DRAWING TITLE
SITE DETAILS 4

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

DRAWING NUMBER: L4.3

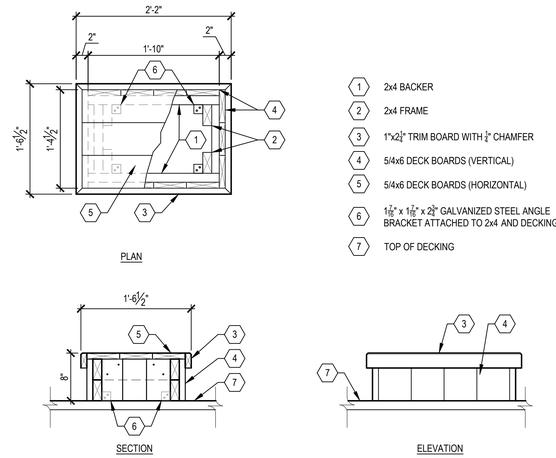


1. HAND OPERATED DEEP WELL SSL PUMP
2. WATER RUNNEL (10 / L4.0)
3. FINISH GRADE (CONCRETE SIDEWALK)
4. NATURAL AGGREGATE BASE, MDOT 21AA
5. COMPACTED SUBGRADE
6. CAST IN PLACE REINFORCED CONCRETE FOOTING
7. SEALED EXPANSION JOINT
8. 5" WELL CASING

NOTES:
1. HAND PUMP SHALL BE BPH-125, 5" STAINLESS STEEL HAND PUMP AS MANUFACTURED BY BISON PUMPS. (PH: 800-339-2601).
2. INCLUDE TAMPER-PROOF WELL ADAPTER, QUICK DISCONNECT AND TAMPER PROOF KIT AS MANUFACTURED BY BISON PUMPS.
3. INCLUDE ALL ACCESSORIES FOR PUMP INCLUDING CYLINDER, PIPE AND ROD.
4. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
5. SUMBIT SHOP DRAWINGS FOR APPROVAL.

1 WATER PUMP PEDESTAL

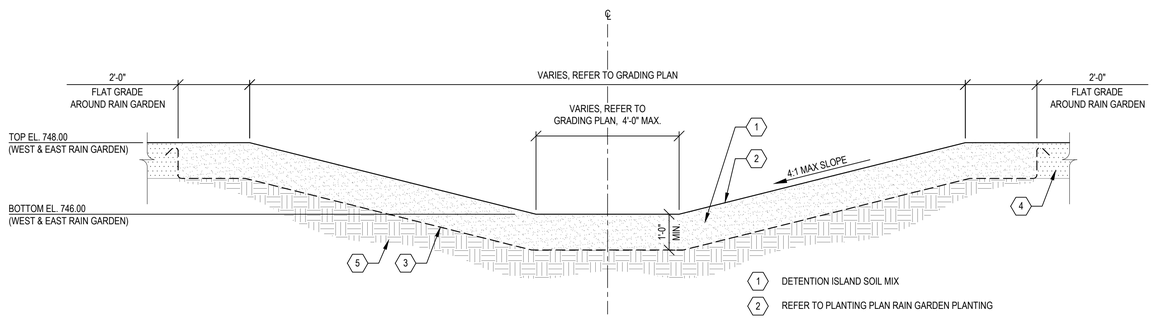
1" = 1'



1. 2x4 BACKER
2. 2x4 FRAME
3. 1"x2¼" TRIM BOARD WITH ¼" CHAMFER
4. 5/4x6 DECK BOARDS (VERTICAL)
5. 5/4x6 DECK BOARDS (HORIZONTAL)
6. 1⅛" x 1⅛" x 2¾" GALVANIZED STEEL ANGLE BRACKET ATTACHED TO 2x4 AND DECKING
7. TOP OF DECKING

2 KAYAK TRANSFER BENCH

1" = 1'



1. DETENTION ISLAND SOIL MIX
2. REFER TO PLANTING PLAN RAIN GARDEN PLANTING
3. NON-WOVEN GEOTEXTILE FABRIC, ENDS EMBEDDED IN PLANT BED MIX
4. PLANT BED MIX
5. SUBGRADE

3 RAIN GARDEN

1" = 1'

Know what's **below.** **Call** before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED AS EXACT LOCATIONS. IT MUST BE KEPT IN MIND THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

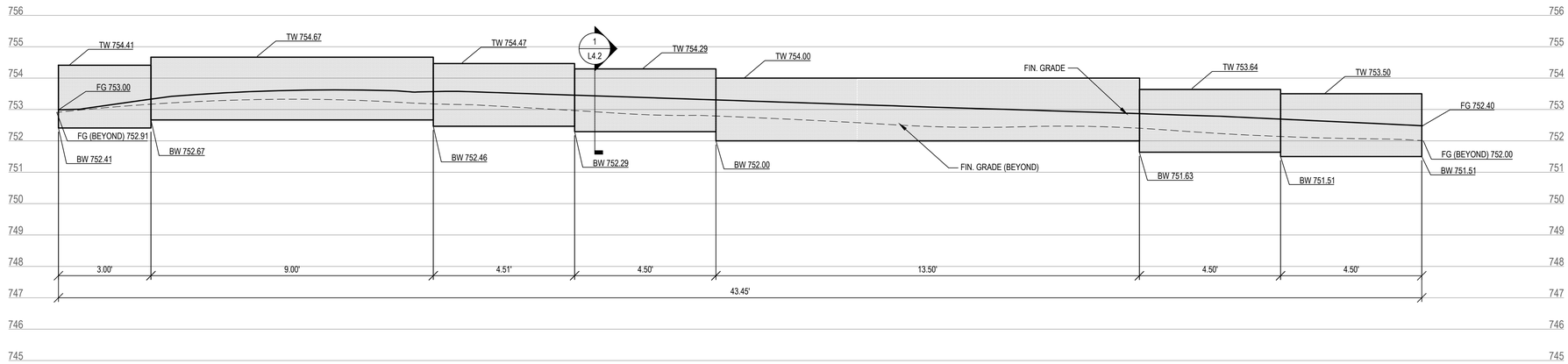
DRAWING TITLE
SITE DETAILS 5

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

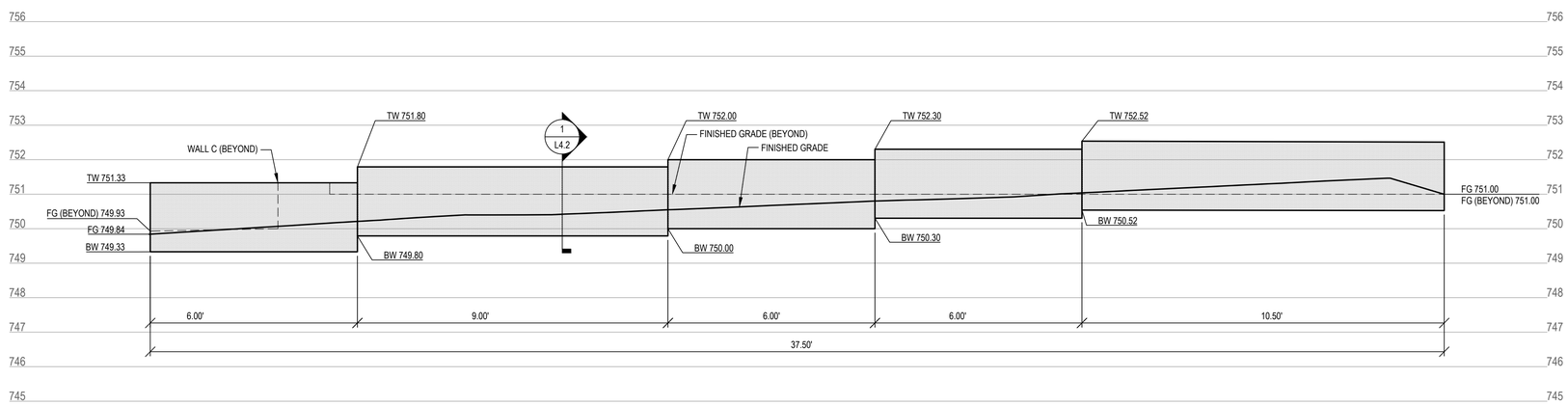
DRAWING NUMBER: L4.4

FILE: P:\20678.000\CAD\C\Sheet\20678-DETL-SITE-SHT.dwg USER: jpoung DATE: Oct. 14, 2016 TIME: 10:46 am



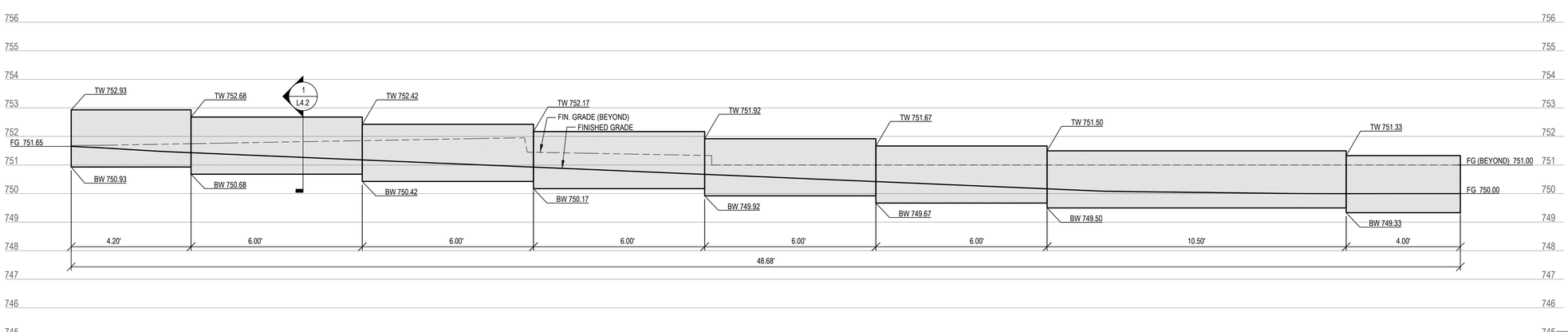
1 WALL A - ELEVATIONS

1/2" = 1'



2 WALL B- ELEVATIONS

1/2" = 1'



3 WALL C- ELEVATIONS

1/2" = 1'

Know what's **below.** **Call** before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS AS WELL AS RECORDS, BUT SHOULD ONLY BE CONSIDERED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

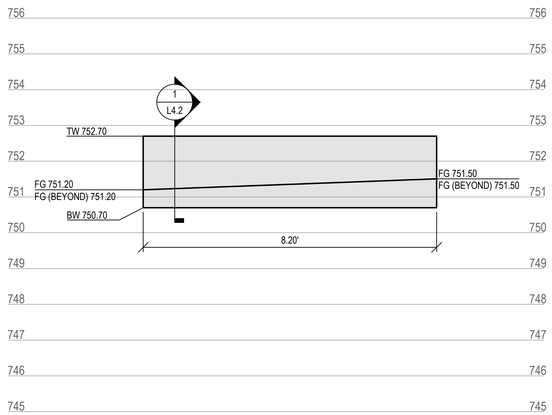
DRAWING TITLE
SITE WALL DETAILS AND ELEVATIONS 1

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

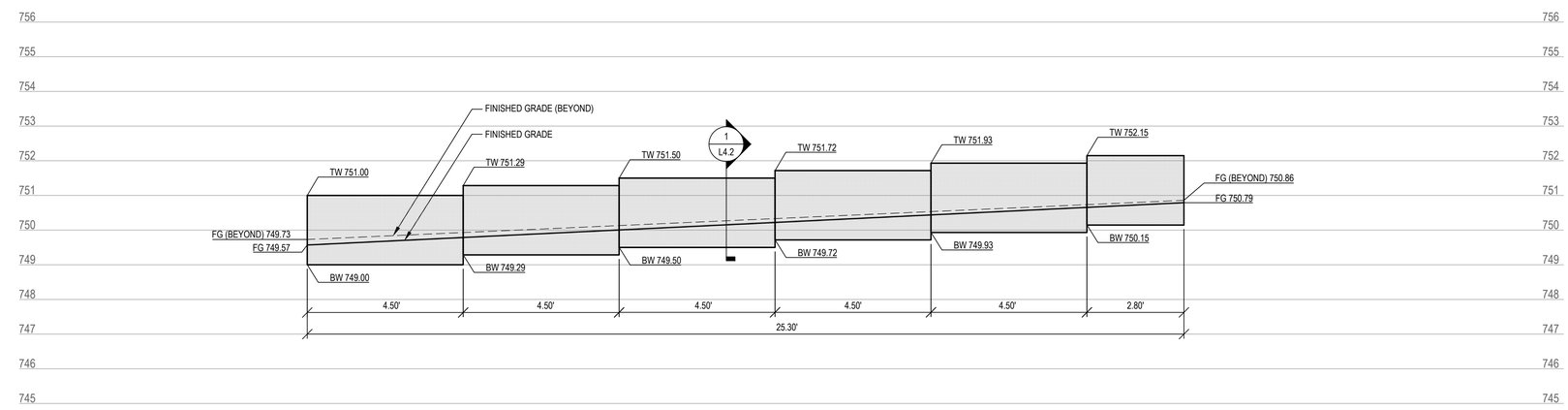
DRAWING NUMBER: L4.5

FILE:P:\20678.000\CAD\D\Sheet\20678-DETL-WALL-SHT.dwg USER: jpoung DATE: Oct. 14, 2016 TIME: 12:57 pm



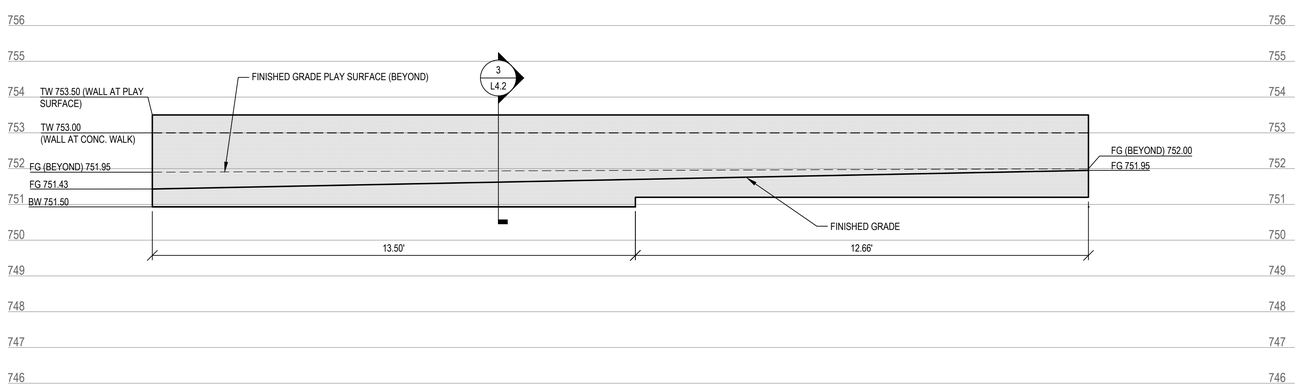
1 WALL D- ELEVATIONS

1/2" = 1'



2 WALL E- ELEVATIONS

1/2" = 1'



3 WALL 'F' ELEVATIONS

1/2" = 1'

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUPJJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

DRAWING TITLE
SITE WALL DETAILS AND ELEVATIONS 2

SCALE: AS NOTED

PROJECT NUMBER: 20678.000

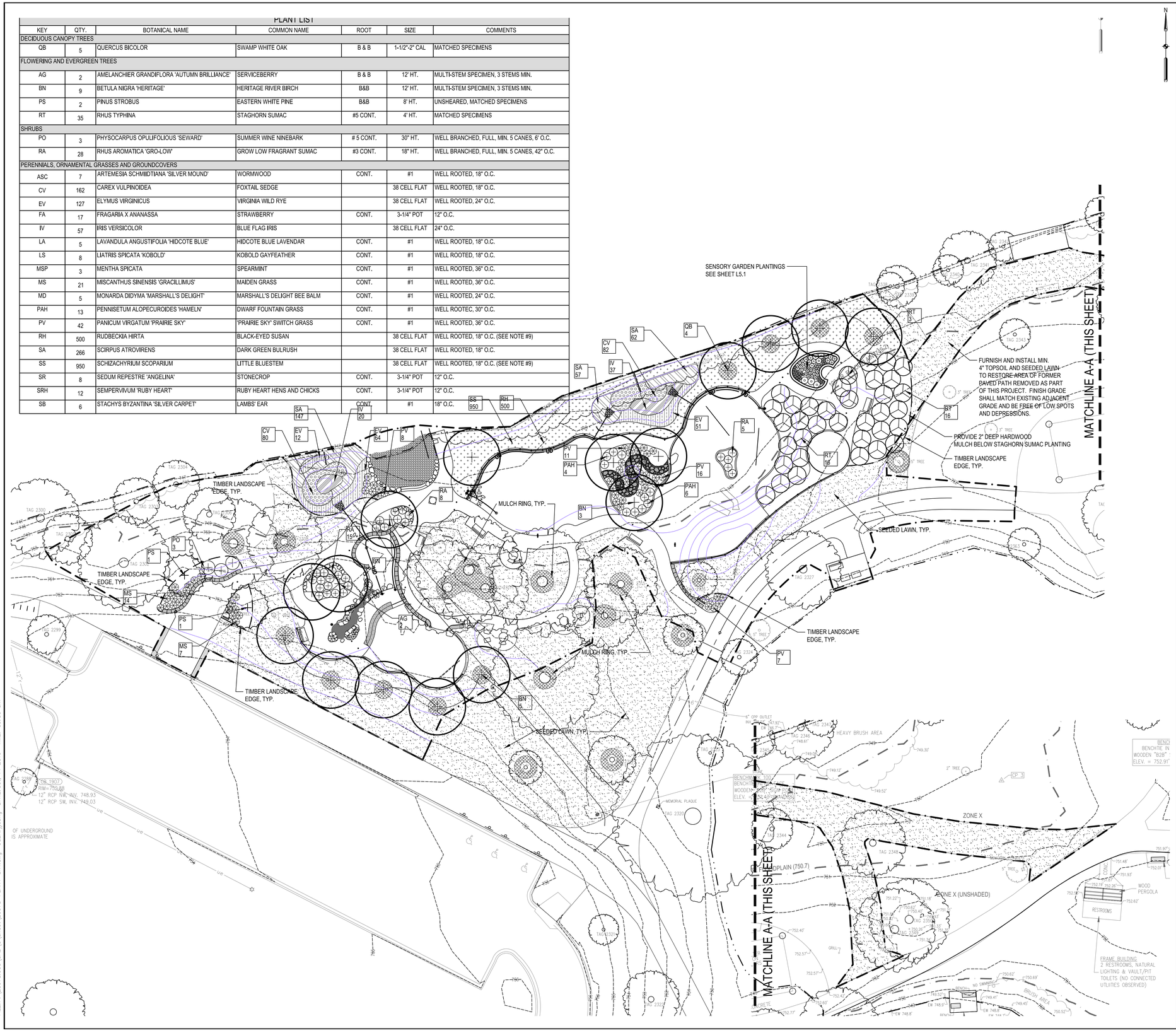
DRAWING NUMBER: L4.6

811 Know what's below. Call before you dig.
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS AS PROVIDED BY THE APPROPRIATE OWNER, OR INTERPRETED TO BE THE ESTIMATED LOCATIONS. THEY SHOULD NOT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

FILE:P:\20678.000\CAD\C\Sheet\20678-DETL-WALL-SHT.dwg USER: jpoung DATE: Oct. 14 2016 TIME: 09:55 am

PLANT LIST

KEY	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
DECIDUOUS CANOPY TREES						
QB	5	QUERCUS BICOLOR	SWAMP WHITE OAK	B & B	1-1/2"-2" CAL	MATCHED SPECIMENS
FLOWERING AND EVERGREEN TREES						
AG	2	AMELANCHIER GRANDIFLORA 'AUTUMN BRILLIANCE'	SERVICEBERRY	B & B	12' HT.	MULTI-STEM SPECIMEN, 3 STEMS MIN.
BN	9	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	B&B	12' HT.	MULTI-STEM SPECIMEN, 3 STEMS MIN.
PS	2	PINUS STROBUS	EASTERN WHITE PINE	B&B	8' HT.	UNSHEARED, MATCHED SPECIMENS
RT	35	RHUS TYPHINA	STAGHORN SUMAC	#5 CONT.	4' HT.	MATCHED SPECIMENS
SHRUBS						
PO	3	PHYSOCARPUS OPULIFOLIOUS 'SEWARD'	SUMMER WINE NINEBARK	# 5 CONT.	30" HT.	WELL BRANCHED, FULL, MIN. 5 CANES, 6' O.C.
RA	28	RHUS AROMATICA 'GRO-LOW'	GROW LOW FRAGRANT SUMAC	#3 CONT.	18" HT.	WELL BRANCHED, FULL, MIN. 5 CANES, 42" O.C.
PERENNIALS, ORNAMENTAL GRASSES AND GROUNDCOVERS						
ASC	7	ARTEMESIA SCHMIDTIANA 'SILVER MOUND'	WORMWOOD	CONT.	#1	WELL ROOTED, 18" O.C.
CV	162	CAREX VULPINOIDEA	FOXTAIL SEDGE		38 CELL FLAT	WELL ROOTED, 18" O.C.
EV	127	ELYMUS VIRGINICUS	VIRGINIA WILD RYE		38 CELL FLAT	WELL ROOTED, 24" O.C.
FA	17	FRAGARIA X ANANASSA	STRAWBERRY	CONT.	3-1/4" POT	12" O.C.
IV	57	IRIS VERSICOLOR	BLUE FLAG IRIS		38 CELL FLAT	24" O.C.
LA	5	LAVANDULA ANGUSTIFOLIA 'HIDCOTE BLUE'	HIDCOTE BLUE LAVENDAR	CONT.	#1	WELL ROOTED, 18" O.C.
LS	8	LIATRIS SPICATA 'KOBOLD'	KOBOLD GAYFEATHER	CONT.	#1	WELL ROOTED, 18" O.C.
MSP	3	MENTHA SPICATA	SPEARMINT	CONT.	#1	WELL ROOTED, 36" O.C.
MS	21	MISCANTHUS SINENSIS 'GRACILLIMUS'	MAIDEN GRASS	CONT.	#1	WELL ROOTED, 36" O.C.
MD	5	MONARDA DIDYMA 'MARSHALL'S DELIGHT'	MARSHALL'S DELIGHT BEE BALM	CONT.	#1	WELL ROOTED, 24" O.C.
PAH	13	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	CONT.	#1	WELL ROOTEC, 30" O.C.
PV	42	PANICUM VIRGATUM 'PRAIRIE SKY'	'PRAIRIE SKY' SWITCH GRASS	CONT.	#1	WELL ROOTED, 36" O.C.
RH	500	RUDBECKIA HIRTA	BLACK-EYED SUSAN		38 CELL FLAT	WELL ROOTED, 18" O.C. (SEE NOTE #9)
SA	266	SCIRPUS ATROVIRENS	DARK GREEN BULRUSH		38 CELL FLAT	WELL ROOTED, 18" O.C.
SS	950	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM		38 CELL FLAT	WELL ROOTED, 18" O.C. (SEE NOTE #9)
SR	8	SEDUM REPESTRE 'ANGELINA'	STONECROP	CONT.	3-1/4" POT	12" O.C.
SRH	12	SEMPERVIVUM 'RUBY HEART'	RUBY HEART HENS AND CHICKS	CONT.	3-1/4" POT	12" O.C.
SB	6	STACHYS BYZANTINA 'SILVER CARPET'	LAMBS' EAR	CONT.	#1	18" O.C.



SHEET NOTES

1. INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".
2. PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL BED LAYOUTS. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE LANDSCAPE ARCHITECT WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER.
3. SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION. IN AREAS WHERE LAWN IS DISTURBED BEYOND THE LIMITS OF CONSTRUCTION, REPLACE LAWN WITH NEW LAWN SEED (INCLUDING TOPSOIL, SEED AND MULCH) AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATIONS FOR SEED MIXES.
4. UTILIZE HORTICULTURAL TREE WATERING BAGS FOR TREES THROUGHOUT WARRANTY PERIOD. REPLENISH TREE WATERING BAGS REGULARLY SO THAT NONE REMAIN WITHOUT WATER FOR MORE THAN 24 HOURS.
5. MINIMIZE CULTIVATION WITHIN THE DRIPLINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING BY MINIMIZING DISTURBANCE TO 4-INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIPLINE OF EXISTING TREES.
6. MULCH PLANTING BEDS PER SPECIFICATIONS. KEEP MULCH 4 INCHES FROM TREE TRUNKS AND SHRUB CROWNS.
7. REFER TO SHEET L1.0 FOR LIMITS OF EROSION CONTROL MEASURES.
8. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE.
9. PLANT RUDBECKIA HIRTA AND SCIZACHYRIUM SCOPARIUM IN RANDOM GROUPINGS OF 20-25 PLANTS PER SPECIES IN AREAS SHOWN ON PLAN. INTERMINGLE GROUPINGS OF EACH SPECIES IN RANDOM PATTERN.

LEGEND

- PRAIRIE PLANTING (PLUGS)
- RAIN GARDEN PLANTING (PLUGS)
- HARDWOOD MULCH
- SEEDED LAWN
- PROPOSED CANOPY/ ORNAMENTAL TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB/ ORNAMENTAL GRASS
- TIMBER LANDSCAPE EDGE

Know what's below. Call before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOW A TYPICAL BE INSTRUMENTS TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

CITY OF ANN ARBOR MICHIGAN

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

0' 10' 20' 40'

DRAWING TITLE
PLANTING PLAN

SCALE 1"=20'

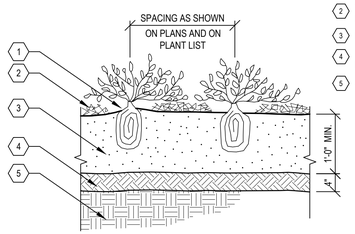
PROJECT NUMBER 20678.000

DRAWING NUMBER L5.0

FILE:P:\20678.000\CAD\C\Sheet\20678-PLANT-SHT.dwg USER: jyoung DATE:Oct. 14 2016 TIME: 09:50 am

NOTE:
CONTAINER PLANTS: REMOVE POTS AND SEPERATE POT BOUND ROOTS AS SPECIFIED.

1. SET ROOT FLARE (COLLAR) AT FINISHED GRADE
2. 1" DEEP MULCH. DO NOT COVER ROOT FLARE
3. PLANT BED MIX
4. SCARIFY TO 4" DEPTH AND RECOMPACT
5. SUBGRADE

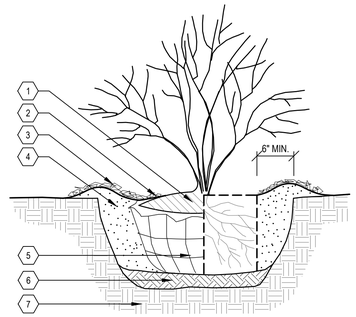


1 GROUNDCOVER AND PERENNIAL PLANTING

NTS

NOTES:
- REMOVE BURLAP FROM TOP 1/3 OF BALL, OR, WITH CONTAINER PLANTS, REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.
- MULCH SAUCERS SHALL BE A MIN. 3'-0" DIAMETER OR AS SHOWN ON PLANS
- DO NOT PRUNE

1. BALLED AND BURLAPPED SHRUB
2. SET CROWN OF BALL AT FINISHED GRADE
3. 2" DEEP MULCH. DO NOT COVER ROOT FLARE
4. PLANTING BACKFILL. SCARIFY SIDES OF PLANT PIT.
5. BARE ROOT OR CONTAINER SHRUBS
6. SCARIFY TO 4" DEPTH AND RECOMPACT. DEPTH AS REQUIRED
7. SUBGRADE



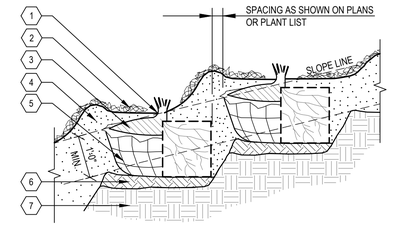
NOTE TO SPECIFIER: THIS DETAIL SHOULD NOT BE USED WITH THE SHRUB BED PLANTING DETAIL AND IS TYPICALLY USED WHEN SITE SOILS ARE ADEQUATE OR PLANTS ARE SPACED > 6' O.C.

2 SHRUB PLANTING

NTS

NOTES:
- REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL, OR, WITH CONTAINER PLANTS, REMOVE POTS AND SEPARATE POT BOUND ROOTS AS SPECIFIED.
- DO NOT PRUNE SHRUBS EXCEPT TO REMOVE DEAD OR BROKEN BRANCHES

1. SET ROOT FLARE COLLAR OF BALL AT SLOPE LINE
2. 2" DEEP MULCH. DO NOT COVER ROOT FLARE
3. BALLED AND BURLAPPED SHRUB
4. PLANT BED MIX
5. BARE ROOT OR CONTAINER SHRUB
6. SCARIFY TO 4" DEPTH AND RECOMPACT.
7. SUBGRADE - SLOPE TO FOLLOW FINISH GRADES TO MAINTAIN UNIFORM PLANT BED MIX DEPTH

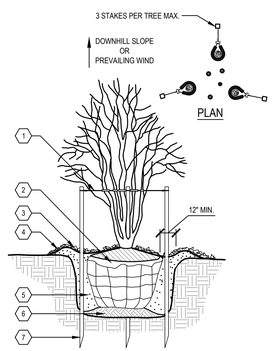


3 SHRUB PLANTING ON SLOPES

NTS

SCHEDULES

SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• UP TO 6' TALL • 6' - 12' TALL • > 12' TALL	• DOUBLE STAKE • TRIPLE STAKE • TRIPLE STAKE	• 4' DIA. • 5' DIA. • 5' DIA.



NOTES:

STAKE 3 LARGEST STEMS, IF TREE HAS MORE THAN 3 LEADERS

1. STAKE TREE ABOVE FIRST BRANCHES, MIN. ⅓ UP TREE. SET STAKES VERTICAL AND AT THE SAME HEIGHT.
2. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL
3. 2" DEEP MULCH. DO NOT COVER ROOT COLLAR
4. MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT
5. PLANTING BACKFILL
6. COMPACTED PLANTING BACKFILL
7. STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND

4 MULTI-STEM ORNAMENTAL TREE

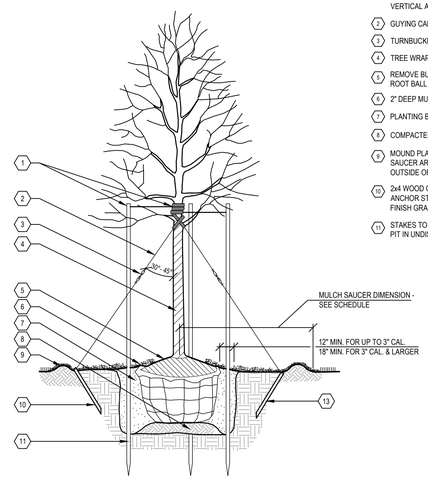
1" = 1'

SCHEDULES

SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• 2" CAL. & SMALLER • BETWEEN 2.5" & 3.5" CAL. • 4" CAL. - 6" CAL.	• DOUBLE STAKE • TRIPLE STAKE • TRIPLE GUY	• 4' DIA. • 5' DIA. • MIN. 8' DIA.- EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES

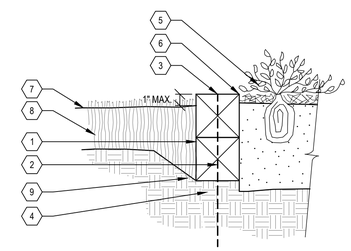
NOTES:
NEWER CUT CENTRAL LEADERS PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES.

1. TOP OF STAKES AND GUYS TO BE SET ABOVE FIRST BRANCHES. SET STAKES VERTICAL AND AT SAME HEIGHT
2. GUYING CABLE 3 GUYS PER TREE
3. TURNBUCKLE
4. TREE WRAP
5. REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL
6. 2" DEEP MULCH. DO NOT COVER ROOT FLARE
7. PLANTING BACKFILL
8. COMPACTED PLANTING BACKFILL
9. MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES
10. 2x4 WOOD OR #3/LF METAL FENCE POST ANCHOR STAKE TO BE DRIVEN BELOW FINISH GRADE. MIN. LENGTH TO BE 24"
11. STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND



5 CANOPY TREE

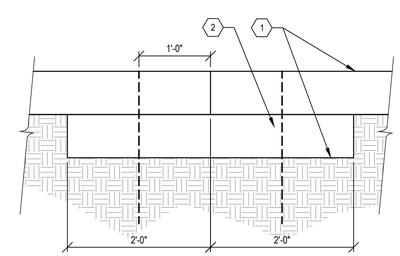
NTS



SECTION

1. 6"X6" PRESSURE TREATED TIMBER
2. 3' #5 REBAR, STAKE AT ENDS AND MIN. 3' O.C.
3. COUNTERSINK REBAR ¼" BELOW TOP
4. SUBGRADE BELOW TIMBER
5. PLANT BED
6. MULCH TO BE FLUSH WITH TOP OF EDGING
7. FINISHED GRADE FOR LAWN, FLUSH FOR STONE
8. LAWN OR STONE MAINTENANCE EDGE
9. SUBGRADE TRANSITION SHALL OCCUR OUTSIDE OF EDGE OF PLANT BED

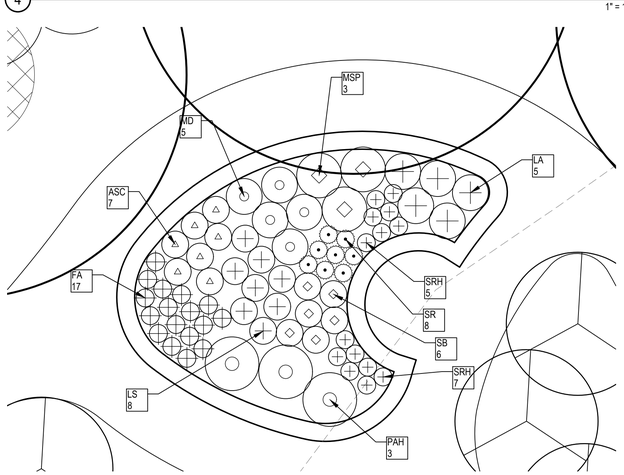
NOTE:
TIMBER LANDSCAPE EDGE SHALL CONSIST OF SINGLE LAYER OF 6X6 TREATED TIMBER IN 8' LENGTHS. PROVIDE ADDITIONAL 6"X6"X4'ANCHOR' TIMBER AT ALL JOINTS.



ELEVATION

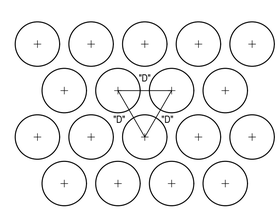
6 TIMBER LANDSCAPE EDGING

1"-1'-0"



7 SENSORY GARDEN ENLARGEMENT

1/4" = 1'



D=DIMENSION OF PLANT SPACING (SHRUB, GROUNDCOVER OR PERENNIAL) AS INDICATED ON PLANS.

NOTE TO SPECIFIER:
- IN NARROW BEDS OR WHERE RECTANGULAR BEDS ARE SHOWN W/OUT INDIVIDUAL PLANT SYMBOLS - SPECIFY THE # OF ROWS ON THE PLANS.
- THIS DETAIL SHOULD BE USED ON ALL PLANT DETAIL SHEETS WHERE SHRUBS, PERENNIALS & GROUNDCOVER ARE SPECIFIED.

8 TYPICAL PLANT SPACING

1" = 1'

Know what's below. Call before you dig.
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OF VISIBLE PHYSICAL FEATURES. THEY MAY BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

3000 Fuller Road
Ann Arbor, MI 48105

ROTARY CLUB OF ANN ARBOR CENTENNIAL PLAYGROUND

Owner:
CITY OF ANN ARBOR

SMITHGROUP JJR

201 DEPOT STREET
SECOND FLOOR
ANN ARBOR, MI 48104
734.662.4457
www.smithgroupjjr.com

ISSUED FOR	REV	DATE
BIDS		14OCT2016

SEALS AND SIGNATURES

KEY PLAN

DRAWING TITLE
LANDSCAPE DETAILS

SCALE: AS NOTED
PROJECT NUMBER: 20678.000
DRAWING NUMBER: L5.1

FILE: P:\20678.000\CAD\CA\Sheet\20678-DETL-PLANT-SHT.dwg USER: jqyoung DATE: Oct. 14 2016 TIME: 01:03 pm