

ADDENDUM NO. 02
to the DRAWINGS AND SPECIFICATIONS



Project: Shepherd Community Center Playground Improvements
Project No: 12-037

February 20, 2014

Passpointe Engineering, PLLC
2719 Hickory Valley Road, Suite B
Chattanooga, Tennessee 37421
423-451-6601

THE FOLLOWING REVISIONS, CORRECTIONS AND ADDITIONS ARE HEREBY MADE TO THE SPECIFICATIONS AND CONTRACT DOCUMENTS OF THE ABOVE REFERENCED PROJECT, AND SHALL BECOME AS FULLY A PART OF THESE DOCUMENTS AS IF THEY HAD BEEN ORIGINALLY INCLUDED.

This Addendum consists of 13 items on 2 pages, with 4 attachments.

GENERAL/QUESTIONS

- Item 1: Pre-Bid Meeting sign-in sheet – see attached.
- Item 2: The Contractor will not be required to provide any additional engineered drawings in order to obtain a Land Disturbance Permit.
- Item 3: The City of Chattanooga will not waive the fee for acquiring a Land Disturbance Permit.
- Item 4: Substitutions for playground surfacing will be considered. Appropriate Substitution Form must be completed and submitted with the Bid.

SPECIFICATIONS

- Item 5: **Section 00200, Item 3 – Qualifications of Bidders.**
As Clarification, information and evidence required shall be submitted with the Bid.
- Item 6: **Section 00301 BID SCHEDULE.** See attached Bid Schedule, Addendum #2 for addition of Rock Excavation Item.
- Item 7: **Section 00302 BID BOND.** A letter of credit from an acceptable financial institution shall be acceptable in lieu of a Bid Bond.
- Item 8: **Section 00835 PROJECT SIGN. Clarification**, no permit is required for the project construction sign.
- Item 9: **Section 32 18 16.13 PLAYGROUND PROTECTIVE SURFACING.**
Add the following paragraphs to Subsection 2.01 MATERIALS:
 - B. Surfacing product shall have a void ratio of 30% and minimum permeability of 200 gal/min/sy.
 - C. Color of surfacing product shall not be black, but shall be a minimum of 50% color to 50% black, with minimum 80% color in area of color path, as shown on attached drawing "Surface Color Pattern".

Item 10: **Section 32 18 16.13 PLAYGROUND PROTECTIVE SURFACING.**

Add the following paragraphs in the designated sections:

1.02 SUBMITTALS

E. G-MAX TESTING

- a. Upon substantial completion, the Field Builder shall hire an independent testing laboratory to perform a G-max test (ASTM F1292) to verify that the shock attenuation properties of the surface meet the requirements set forth in this specification. Submit three (3) copies of the G-max test to the Owner.
- b. After the time of substantial completion, the average G-max of the system must not exceed 200 at any time during the life of the warranty. The Owner reserves the right to have the field tested for shock attenuation at its own cost at any time it deems necessary. If at any time during the Warranty Period the G-max ranges reach unacceptable levels, it is the responsibility of the Contractor to bring the field back into the required ranges at no cost to the Owner.

2.01 MATERIALS

- c. COLOR SAMPLES – Contractor to submit manufacturer's color samples for surface color selection by Owner/Engineer.

Item 11: **Section 03 30 00 CAST-IN-PLACE CONCRETE, Subsection 1.02.**

Add the words "Contractor shall" to the beginning of the first paragraph; and "Certificates attesting to concrete strength, which are signed by the concrete producer and" to the third paragraph.

Item 12: **Section 11 68 13 PLAYGROUND WATER SPRAY EQUIPMENT.**

Clarification, no "equal" substitution is allowed for this equipment.

Item 13: **Section 11 68 13 PLAYGROUND WATER SPRAY EQUIPMENT.**

Delete Subsection 2.14 in its entirety.

ATTACHMENTS

1. 00301 Bid Schedule, Addendum #2
 2. Pre-Bid Conference Sign-In Sheet
 3. Chattanooga Standard Detail 307.01 Trench Details and Bedding
 4. Surfacing Color Pattern
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**SECTION 00301
BID SCHEDULE**

Project: **Shepherd Community Center Playground Improvements**
Project No: **12-037**

This Bid is submitted to: Chattanooga Purchasing
101 East 11th Street, Suite G-13
Chattanooga, TN 37402

1. The undersigned bidder proposes and agrees, if this bid is accepted, to enter an agreement with Owner in the form indicated in the Contract Documents for the contract price within the contract time indicated in this bid.
2. Bidder has carefully examined the plans, the technical specifications, the General Conditions, the Supplementary Conditions, Instructions for Bidders, the form of the contract, the form of bonds, and all other contract documents, and thoroughly understands their stipulations, requirements, and provisions.
3. Bidder has examined the site and locality where the work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules and regulations) and all conditions affecting cost, progress, or performance of the work. Bidder has made such independent investigations as bidder deems necessary to become thoroughly familiar with the conditions under which the work will be performed.
4. Bidder understands that a price for each item on the bid schedule must be filled in as stated in Instructions for Bidders. Failure to indicate price for alternates, if any, may be grounds for considering the bid irregular. Unit prices on the bid schedule shall include all labor, materials, erosion control, shoring, removal, safety measures, overhead, profit, insurance, etc. to cover the finished work.
5. Bidder agrees that, if awarded the contract, all work thereunder shall be conducted in such a manner and with sufficient materials, labor, tools, equipment, apparatus, and incidentals as is necessary to insure satisfactory completion of the project within **60** calendar days from the date stipulated in the Notice to Proceed.
6. Bidder accepts the provisions of the Agreement as to liquidated damages of **\$200** per day in the event of failure to complete the work on time.
7. Bidder represents that this bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation.
8. Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.
9. Bidder will complete the work as described in the specifications for the price(s) as shown on the following bid schedules.

BID SCHEDULE

Project: **Shepherd Community Center Playground Improvements, Proj. #: 12-037**

Bidder: _____ Date: _____

Item No.	Description	Units	Est. Qty	Unit Price	Total
A. BASE BID					
01717-1	Mobilization - Allocation of all work forces, supplies, equipment, and incidentals to the project site. Per specification section 01717	LS	1		
01730-1	As-Built Drawing - As specified in project manual. Location of playground & spray park equipment, stormwater structures & pipes, etc;	LS	1		
03 30 00	Cast-In-Place Concrete - Sidewalks; Complete, in-place as specified and/or as shown on the drawings.	SF	624		
11 68 13a	Playground Water Spray Equipment - Installation of foundations, anchors, controller mounting posts, and other infrastructure as required for the future addition and installation of the individual water spray products as shown in the plans and specifications; Complete, in-place as specified and/or as shown on the drawings.	LS	1		
31 20 00a	Earth Moving - Demolition, temporary erosion control, grading, compaction, etc.; Complete, in-place as specified and/or as shown on the drawings.	LS	1		
31 20 00b	Rock Excavation - For rock encountered during trenching greater than 1 cy in volume, and as approved by the Engineer prior to removal.	CY	20		
32 00 00	Parking Striping for ADA - Complete, in-place as specified and/or as shown on the drawings.	LS	1		
32 11 23.23	Base Course Drainage Layers - Aggregate base for playground protective surface, including geotextile; Complete, in-place as specified and/or as shown on the drawings.	SY	1060		
32 18 16.13	Playground Protective Surfacing - 100% recycled rubber surfacing, depth as required for Gmax specification; Complete, in-place as specified and/or as shown on the drawings.	SY	1096		
32 32 24	Segmental Retaining Wall - Mechanically stabilized earth retaining wall, including geogrid reinforcement, compacted backfill, etc.; Complete, in-place as specified and/or as shown on the drawings.	SF	183		
32 90 00	Planting - Complete, in-place as specified and/or as shown on the drawings.				
	a. Allee or Bosque Elm	EA	3		
	b. Ginko Biloba (male only)	EA	1		
	c. Seeding, fertilizing, mulching	LS	1		
33 11 16	Site Water Distribution Piping - Water line, backflow preventer/enclosure, disconnect box, all couplings, valves, connection to exist. waterline, meter, etc.; Complete, in-place as specified and/or as shown on the drawings.				

	a.	2" PEX water line	LF	470	_____	_____
	b.	Backflow Preventer/Enclosure	LS	1	_____	_____
33 42 13		Pipe Culverts - Complete, in-place as specified and/or as shown on the drawings.				
	a.	4" PVC - including sleeves	LF	128	_____	_____
	b.	French Drain with 4" PVC, including stone, geosynthetic fabric, etc.	LF	42	_____	_____
	c.	8" PVC storm piping	LF	180	_____	_____
	d.	24" storm piping	LF	142	_____	_____
	e.	18" storm piping	LF	80	_____	_____
33 46 00		Subdrainage - Subsurface drainage system; Complete, in-place as specified and/or as shown on the drawings.	LS	1	_____	_____
33 49 00		Storm Drainage Structures - Pre-cast drainage structures, including grates; Complete, in-place as specified and/or as shown on the drawings.				
	a.	Catchbasin - 28x28	EA	2	_____	_____
	b.	Catchbasin - 36x36	EA	1	_____	_____
	c.	Catchbasin modification - includes core boring, grout, etc.	EA	1	_____	_____

BASE BID TOTAL: _____

B: ALTERNATE #1 - Water Spray Products (may be awarded as individual units)

11 68 13b		Playground Water Spray Equipment - Installed at Base Bid foundation locations; Including electrical; Complete, in-place as specified and/or as shown on the drawings.				
	a.	Smartpoint Controller/Timer	EA	1	_____	_____
	b.	Ground Geyser	EA	4	_____	_____
	c.	Cattail	EA	1	_____	_____
	d.	Loop Cannon	EA	1	_____	_____

SUBTOTAL B: _____

C. ALTERNATE #2 - Water Storage Tank

33 49 00c		Concrete Tank - Pre-cast concrete holding tank structure, including access ports, installation, connections, etc.; Complete, in-place as specified and/or as shown on the drawings.	EA	1	_____	_____
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SUBTOTAL C: _____

TOTAL ALL ITEMS: _____

ATTENDING PRE-BID CONFERENCE

Bid/Proposal Number: R-14-002-201

Construction for: Shepherd Community Center
Playground Improvements

Opening Date 2/18/2014

Pre-Bid 2/10/2014 @ 1:00pm

Name & Company	E-Mail	Phone #	Fax #
<u>ANGEL RICH RICH CONSTRUCTION</u>	<u>angelrichjohnson@gmail.com</u>	<u>865.986.6336</u>	<u>865.986.6337</u>
<u>JONATHAN DIXON</u> <u>INNOVATIVE CONSTRUCTION</u>	<u>BUILD4U_ZCC@YAHOO.COM</u>	<u>423-543-4341</u>	<u>423-870-6016</u>
<u>Steve Clift</u> <u>Competition Athletics</u>	<u>Steve@CompetitionAthleticSurfaces.com</u>	<u>847-8330</u>	<u>847-8332</u>
<u>CHAD NORWEN</u> <u>ADI</u>	<u>CHAD@TURNITBLACK.COM</u>	<u>490.9981</u>	<u>490-9982</u>
<u>THOMAS BEATTIES</u>	<u>MIKE@TBCCIAA.NET</u>	<u>423-842-6233</u>	<u>423-842-5019</u>
<u>Yerbey Concrete</u>	<u>S.Williams@yerbey.com</u>	<u>423-756-8881</u>	<u>423-756-8889</u>
<u>Jan Pass/Passpointe Eng</u>	<u>Janpass@passpointe.com</u>	<u>423-240-7022</u>	<u>N/A</u>
<u>DAVID CARMODY/CITY OF CHAT</u>	<u>Carmody-d@chattanooga.gov</u>	<u>423-643-7240</u>	
<u>BONNIE MUMPOWER DODSON</u>	<u>MUMPOWER_B@CHATTANOOGA.GOV</u>	<u>423 643 6031</u>	
<u>Kaelin Ameen</u>	<u>ameen.k@chattanooga.gov</u>	<u>643 6179</u>	
<u>Beth Ramer</u>	<u>First Place Finish</u>	<u>615-974-1260</u>	<u>Beth@PlayworldPreferred.com</u>
<u>JERRY HARRIS</u>	<u>RUBBER DESIGN</u> <u>THarris@rubberdesigns.com</u>	<u>424-643-6951</u>	

PIPE DIAMETER "D" (INCHES)	TRENCH WIDTH "BD" (FEET)	TRENCH * VOLUME PER FOOT OF DEPTH	CLASS "C" BEDDING FOR CONCRETE AND DUCTILE IRON		ROCK TRENCH BEDDING	
			QTY. (C.Y.)	"S" IN (IN.)	CONC. & D.I.	PVC, ETC.
6 **	2.00	0.074	0.025	4-1/4	0.025	0.037
8	2.33	0.086	0.030	4-1/2	0.030	0.043
10	2.50	0.093	0.036	5-0	0.049	0.062
12	2.67	0.099	0.039	5-1/4	0.054	0.066
15	3.00	0.111	0.046	5-3/4	0.063	0.074
18	3.25	0.120	0.053	6-1/4	0.069	0.080
24	3.83	0.142	0.072	7-1/2	0.108	0.118
30	4.42	0.164	0.098	9-0	0.121	0.137
36	5.67	0.210	0.148	10-1/2	0.194	-----
42	6.25	0.231	0.184	12-0	0.209	-----
48	6.83	0.253	0.223	13-1/2	0.223	-----
54	7.42	0.275	0.226	15-0	0.236	-----
60	8.00	0.296	0.312	16-1/2	0.247	-----
66	8.58	0.318	0.362	18-0	0.258	-----
72	9.17	0.340	0.416	19-1/2	0.268	-----
78	9.75	0.361	0.458	20-1/2	0.291	-----
84	10.33	0.383	0.510	21-3/4	0.315	-----
96	11.50	0.426	0.604	23-3/4	0.365	-----

* ALL VOLUMES IN CUBIC YARDS/LINEAR FOOT.

** QUANTITIES AND DIMENSIONS FOR 6" SERVICE LINE SHALL APPLY TO 4" SERVICE LINE ALSO.

QUANTITIES FOR CLASS "B" AND ROCK TRENCH BEDDING ARE THE QUANTITIES IN EXCESS OF THOSE REQUIRED FOR CLASS "C" BEDDING.

SCHEDULE OF BEDDING

PIPE DIAMETER "D" (INCHES)	TRENCH WIDTH TOP OF PIPE "BD" (FT.)	CONCRETE PIPE C-76 CLASS III	CONCRETE PIPE C-76 CL IV AWWA C-301 D.I.P.	PVC D-3034 AND ASTM F679
CLASS "C" BEDDING (STANDARD BEDDING)				
4"	2.00	---	---	NL
6"	2.00	---	---	NL
8"	2.33	---	---	NL
10"	2.50	---	---	NL
12"	2.67	---	13	NL
15"	3.00	---	12	NL
18"	3.25	---	13	NL
21"	3.54	---	14	NL
24"	3.83	---	15	
27"	4.08	11	15	
30"	4.42	11	16	
33"	4.75	11	16	
36"	5.67	10	14	
42"	6.25	11	16	
48"	6.83	12	17	
54"	7.42	13	18	
60"	8.00	13	18	
66"	8.58	14	19	
72"	9.17	15	20	
78"	9.75	16	21	
84"	10.33	16	21	
90"				

NL=NO LIMIT TO BOTTOM OF PIPE

BD=MAXIMUM TRENCH WIDTH AT 12" ABOVE TOP OF PIPE. IF DITCH IS CUT WIDER THAN BD SHOWN, THE CONTRACTOR, AT HIS OWN EXPENCE, WILL BE REQUIRED TO INCREASE BEDDING TO COMPENSATE FOR ADDITIONAL LOAD ON THE PIPE.

(PERMISSIBLE DEPTH (IN FEET) TO BOTTOM OF PIPE FOR SATURATED CLAY EARTH LOAD, 130 LBS./CU. FT. (SATURATED CLAY).)

NOTES

STANDARD BEDDING

MATERIAL SHALL BE PLACED AS SHOWN BY THE STANDARD DETAILS FOR THE TYPE OF PIPE USED. THE BEDDING SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID PER LINEAR FOOT OF PIPE FOR VARIOUS TYPES, SIZES, AND DEPTHS LISTED IN THE BID SCHEDULE.

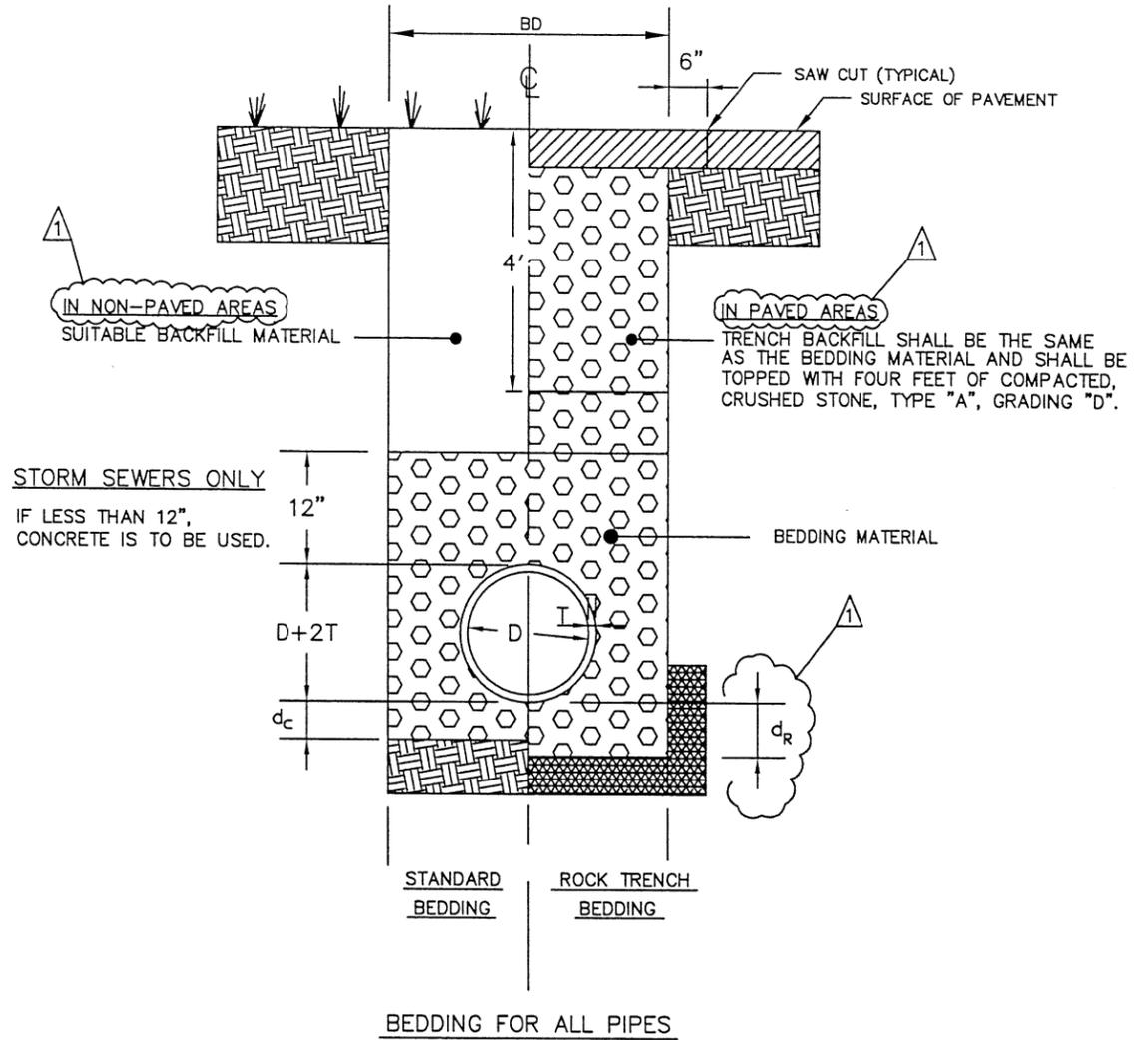
CLASS "B" BEDDING MATERIAL (SECTION 204.04, TENNESSEE D.O.T. SPECIFICATIONS)- MATERIAL FOR CLASS "B" BEDDING FOR PIPE CULVERTS SHALL CONSIST OF SAND OR A NATURAL SANDY SOIL, ALL OF WHICH PASSES A 3/8-INCH SIEVE AND NOT MORE THAN TEN PERCENT PASSES A NO. 200 SIEVE; OR STONE, GRAVEL, CHERT, OR SLAG MEETING THE GRADING REQUIREMENTS FOR EITHER GRADING C, D, OR E OF SUBSECTION 903.05.

IN ROCK CUTS OR OTHER AREAS DESIGNATED BY THE ENGINEER WHERE A FREE DRAINAGE BEDDING OR BACKFILL MATERIAL IS REQUIRED, THE MATERIAL SHALL BE CRUSHED STONE, CRUSHED SLAG, OR WASHED GRAVEL MEETING THE REQUIREMENTS OF SUBSECTION 903.17.

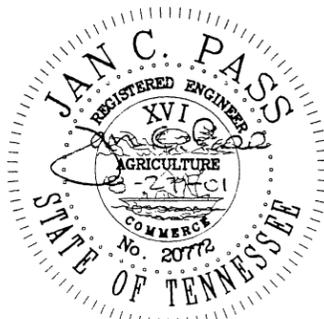
PVC PIPE BEDDING MATERIAL-NO. 7 WASHED STONE (SECTION 903.22, TENNESSEE D.O.T. SPECIFICATIONS).

ROCK TRENCH BEDDING

MATERIAL SHALL BE SAME AS FOR CLASS "B" BEDDING AND SHALL BE PLACED AS SHOWN BY THE STANDARD DETAILS FOR THE TYPE OF PIPE USED. QUANTITIES FOR THE ROCK TRENCH BEDDING ARE THE AMOUNTS IN EXCESS OF THOSE REQUIRED FOR CLASS "C" BEDDING.



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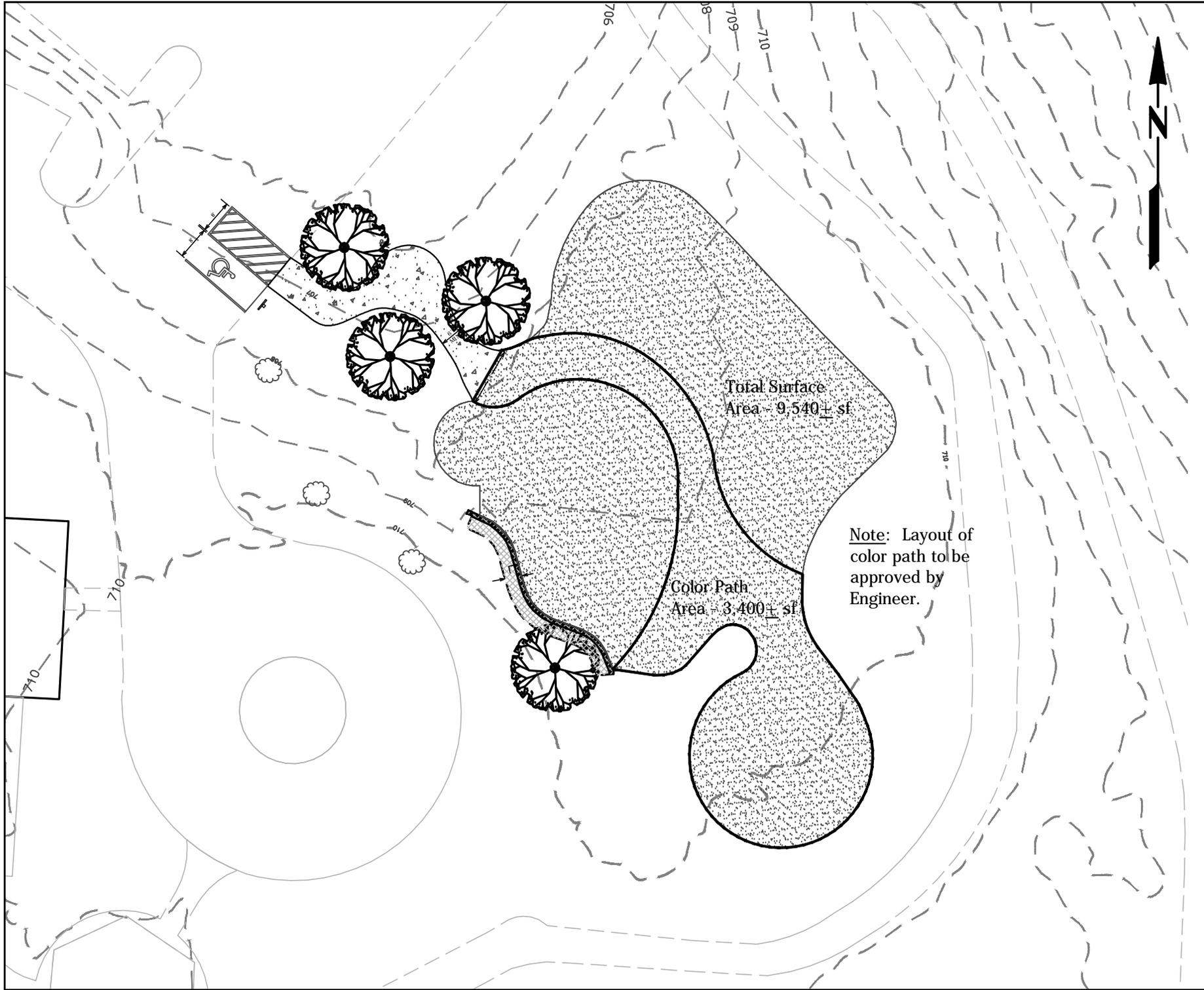
NO.	REVISION	DATE
1	REVISIONS AS MARKED OR CLOUDED	8/24/01
0	INITIAL ISSUE	12/10/99

CITY OF CHATTANOOGA AND HAMILTON COUNTY

TRENCH DETAILS AND BEDDING (STORM/SANITARY SEWERS)

DATE OF ORIGINAL ISSUE: **DECEMBER 10, 1999**

STANDARD NUMBER: **SD-307.01**



Total Surface Area - 9,540 ± sf

Color Path Area - 3,400 ± sf

Note: Layout of color path to be approved by Engineer.



Passpointe Engineering, PLLC
 2719 Hickory Valley Road, Suite B
 Chattanooga, Tennessee 37421

Shepherd Community Center - Surface Color Pattern

DATE: 02-19-14
 SCALE: 1" = 30'

PRJ. NO. 12-037

CS1.1.01