Cobbs Creek Golf Course Improvements Driving Range and Youth Golf Center

September 7th, 2022

Overview of the Master Plan Phasing and Implementation





Existing Conditions





Existing Conditions





Existing Conditions

















Creek Restoration & Wetland Reconstruction Phase I

Cobbs Creek Driving Range & Youth Golf Center Phase II

Driving Range and Youth Golf Center – Proposed Site







Future location of Youth Golf Center

Future location of Driving Range

-ansdowne

Renovations in Clubhouse E

Driving Range and Youth Golf Existing Site







Driving Range & Youth Golf - Stormwater Plan



FOUNDATIO

Driving Range – Full Plan



Youth Golf Center – Illustrative Landscape Plan





Driving Range & Youth Golf – Overall Detailed Plant Schedule



1 KEY PLAN

nical Name	Common Name	Size	Spacing	Notes
	-			
Sectadi Delzeri	Gelebraton Macile	3" - 3 1/2" csl	As Shown	Specimen Que ty B&B
Diste Magyar	Weidenhair Titte	3" + 3 12" col	As Shown	Specimen Que ly, 848
iphatica.	theckgum	3" - 3 1/2" cel.	As Shown	Speamen Quarty, 582
a Menler	Swarp White Cak	3" - 3 1/2" cal	As Shown	Specimen Quality, D&I
s-occonea	Dicarde Cale	8-1810-181	A& shown	spearren Quarty, 988
in diddynin Stanike Bow	Shawnon Brake Bold Cypross	10-12 10	As Shown	espectren Uparly, 685
And State Print, Westman	The Manual Profession	12	an Charles	-
grandwina Liste Autoan	Cate Received	813 J	As Shown	-
and galler card	bilane Webbergd	10	As Shown	-
out and the Party States	Durby Gilcourt Onk Lond M-function	10	As Shown	
un autoacen Yang dater	Cares St. John's Wort	10	As Street	-
ca Material Dead	Mandard David American Multi-	67	as Street	-
tot elithiciana Gove Out	Gens Out Surjan	105	As Shown	
aranatikala	Orientel Scinidault	#7	As Street	-
actual analytical Seward	Scanzoer Wine Ninebark	10	As Shown	
in Automa Mathemacous"	Athentiwood Structure Cincustral	23	As Shown	
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and the second second second second second		2000	1000	115
berpia capilleriz White Cibud	Ahta Cloud Makey Grass	et :	24° p.c.	- 10
n ségatym 'Cape Breeze'	Cape Breeze Switch Grass	171	24" 0.9	
	Stream accessed to be		20000	
		inter-	1451	100
a Bue ke	Stue Star Figwer	#1	18" 0.0.	
and Blackby	Smooth Aslan	#1	18" m.c.	
ovas-anglias "Funcie Donie"	Purple Dome New England Aster	910	10" 0.0	
ee parparee Megnos"	Magnus Parple Conellower	F1	18' 0.0.	1
int x 'Ronaste'	Ronares Cransstall	91	12° b.c.	2
this inconsists ver. purpores	Lanco-instend Loosestyle	1	10" 0.6.	
in drauburiena	Einitem Bee Balen	#1	18" 0.0	0
dita tata ka	Syner, Pant Synor	100	100 000	

Qty Id Botanical Name		Botanical Name	Common Name	Size	Spacing	Notes
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Carro	Trans	THE AND CONTRACTOR OF	Second Contractory			and the second second
4	AF C	Acer + Epamorel Talzasi	Celebration Marie	2° - 2 1/2° cel	As Shown	Stering Quarte B48
2	NS	News advators	flation	27 x 3 107 cm	As Shown	Stating Qualty 545
2	CC C	Overcon coccinen	Scarlet Cea	2" - 3 107" cei	As Shown	Specimen Quality BAB
_		- Constanting of the Constant				
Orna	nental Trees					
d	004	Cartal pagadeosis	Fastern Bothan	2° - 2.112° cel.	As Shown	Specimen Quarter BAB, Sinale Street
3	OF t	Conve firets 'Oversive Prinars'	Charokee Princess Dogecood	2" - 2 10" cal	As Shown	Specimen Quelte, 558, Single Stern
	38		8	105	160	
Shrut	15					
134	50082025	Arman recipanyarus Wester	Bars Ctoketern	25	A6 Stown	
195	CesAme1	Cearvellus artericerus	New Jursey Ten	#3	As Shown	2
63	CeeOcc5	Captoinstau occidentals 'Super Shack'	Sugar Stock Buttorbush	#7	As Shown	
45	CorSariC	Corrus conquitee 'Caty'	Cato Doowood	#3	As Shown	
90	DetorC	Garadia kasipata Cossor"	Bush Honeyaucide	10	As Shown	
248	Record	Hjohanges qualcifelia Rudy Stoper	Ruby Sippers Dok Leaf Hydrargea	15	As Shown	1
1834	HypKate	Henevisare halmistery 'Gerro'	Genes St. John's Wart	#3	As Shown	
224	MaCpald	Nas couce Maryland Deerf'	Maryland Dwaf Assetoan Holly	ar.	As Shown	8
5	lie'vier.J	Any verticalists 'Jice Danaly'	Jam Dondy Winterberry	45	As Shown	
49	anverR	fex sectorizes 'Red Soche'	Red Sorke Wysedeny	25	As Shown	
91	Junited	Junjoerus vegelnieros Tirey Owf	Grey Owi Juniper	195	As Shown	24
104	Pothy	Patentila Pakcase Whitatewood"	Ablastowood Strubby Cinqueloi	10	As Shown	
90	ProLauto	Phonos Surpransus 1085 Logicer	Otto Laskan English Laural	- en	As Shown	
32	VibCarC	Whomam carleas 'Compactan'	Konsen Spice Viburnum	() #8	As Shown	2
62	WARID	Weigels Avrids Breitsspalo'	Sonic Bolom Pink Weigela	86	As Shown	2
Omai	mental Gras	545				
531	car sul	Caner sulpinoidea	Fox Sedge	e:	12" a.c.	
584	unet	sunna efficie	Softnah	01	12" 0.0	2
91	mub cap W	Mahlenbergia papillarly White Cloud'	White Cloud Multy Crass	101	24" 9.5	
231	pan vir CB	Panicum singutum 'Cape Breaze'	Cape Breeze Switch Grass	e1)	24" 0.6	1
	100000000000000000000000000000000000000			22222		500
Perer	mials					
090	arts blu	Avanteia Milar Jop'	Bus Star Flower	#1	58" 0.4.	8
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131	aut nov P	Anter moves-anglive Prople Dome'	Parple Dome New England Aster	- #1	10" 0.4.	2
124	ech pur M	Echineosy purpases Wepcus'	Magnus Putple Coneflower	(a)	50° o.c.	3
2055	201102	Geranium x 'Rozanne'	Rezanne Cranesbill	F1	12° 0.6	
196	in ver	Hiz weakcolar	Harletsin Bluefleg	2.00	18" o.c.	S
309	lin spi	Lietvis apicatis	Spiked Gayleether	e1	12' 0.6.	
51	mon bre	Mananta (valdoriana	Eastern Bee Bales	21	18" 0.6.	
198	mud tei	flugbenkty frioha	Brown-Eved Supern	(d)	18" p.c.	20



2 PLANT SCHEDULE: DRIVING RAN

3 PLANT SCHEDULE: EDUCATION CENTER

Driving Range – Detailed Planting Schedule



Youth Golf Center – Detailed Planting Schedule



SCALE: 1" = 20'-0"

Driving Range & Youth Golf – Overall Detailed Plant Schedule





Youth Golf Center

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Driving Range prepared by:

Blackney Hayes Architects

April 6th, 2022

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Driving Range - Finishes

UV Bird Safe, Low E Glass Hardie Board Siding P

Pre-Manufactured Stone Veneer



Typical Hitting Bays

Standing Seam Metal Roof





Youth Golf Center prepared by: Blackney Hayes Architects

April 6th, 2022

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First Floor Plan prepared by: Blackney Hayes Architects April 6th, 2022

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Basement Plan

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Youth Golf Center - Finishes

UV Bird Safe Low E Glass
 Hardie Vertical Board Siding Pre-Manufactured Stone Veneer



Standing Seam Metal Roof

Roof Shingles

Miscellaneous - The Site Steep Slopes





6. MERIDIANS AND BEARINGS ARE REFERENCED TO GTY PLAN NO. 167 DATED NOVEMBER 12TH, 2001 AND GTY PLAN NO. 348 DATED AUGUST 10TH, 2001. LOT BEARINGS AND DISTANCES ARE SHOWN IN PHILADELPHIA DISTRICT STANDARD, ALL OTHER DIMENSIONS ARE SHOWN IN U.S. SURVEY FEET.

ZP-2022-007572 SCALE: 1" = 200'-0" ^ROR

Sheet No. Z.01

Building	Roof Brand	Roof Type	Roof Color	Solar Reflectance (metal) Initial Reflectivitiy (shingle)	Thermal Emittance (metal) Initial Emissivity (shingle)	Solar Reflective Index (metal) Aged SRI (shingle)	Comments
Education Center	Pac-Clad	Snap-Clad	Slate Gray (TBD)	0.71	0.85	86	
	GAF	Timberline CS Shingles	Weathered Wood (TBD)	0.28	0.92	28	*Asphalt shingle alternate
Driving Range	Pac-Clad	Snap-Clad	Slate Gray (TBD)	0.36	0.84	37	
	GAF	Timberline CS Shingles	Weathered Wood (TBD)	0.28	0.92	28	*Asphalt shingle alternate
Pump House	Pac-Clad	Snap-Clad	Slate Gray (TBD)	0.38	0.84	40	
Halfway House	GAF	Timberline CS Shingles	Weathered Wood (TBD)	0.28	0.92	28	
Cart Barn	Tile Tech	Turf Tray Synthetic Turf	TBD	N/A	N/A	N/A	Artificial turf has no reflectivity that we could determine
Clubhouse	GAF	Timberline CS Shingles	Weathered Wood (TBD)	0.28	0.92	28	
Maintenance Bldg A	Butler	Butlerib II Roof System	Cool Shell Gray (TBD)	55.1	0.84	63	
Maintenance Bldg B	Butler						
Maintenance Bldg C	Pac-Clad	Snap-Clad	Slate Gray (TBD)	0.38	0.84	40	
Final colors to be determine	d if need be, we can adjust co	lor to improve solar reflectivi	ty				
	-						

Stormwater Management

- Includes infiltration and detention systems, both subsurface and underground.
- Controls designed to meet post-construction stormwater management requirements: water quality, channel protection, and flood control.
- Multiple stormwater management facilities throughout site.
- Golf course renovation will result in reduction to Upper Cobbs Creek Combined Sewer Coverflow (CSO)

Heat Island Effect

- Image shows western part of Philadelphia and impacts of urban heat.
- Colored areas warmer than normal temperatures.
- Golf course outlined in red.



Golf course does not include any colored areas.
Golf course is large, contiguous space that reduces heat islands.

Strategies to maintain cooling functions of golf course:

- Planting more trees on course.
- Changing roof design can decrease heat retention.
- Minimize pavement in future design.
- Partner with surrounding community to expand urban tree canopy.

Miscellaneous – Site Lighting

Site Lighting

PROJECT SUMMARY

Project: Cobbs Creek Golf Driving Range

Quote No.:

Drawn By: Hal

Date Created: 4-29-2022

Sales Agent: Penn Lighting Associates

No.of Luminaire: 12





Triton™G2 300W/400W/500W Weight: 33 lbs. EPA: 1.42 ft²

Luminaire Summary

Symbol

Triton™ G2 750W/1250W Weight: 62 lbs. EPA: 2.08 ft²

Electrical Load: Refer to Amperage Draw Chart in product spec sheet.

Spill Reading: Spill reading listed do not account for any foliage or obstructions.

Aiming/Installation: Results ± 3% nominal voltage at line side of driver & structures located within 3ft of layout locations.

Measurement: Illuminance (FC) are measured at a 1m (3ft) elevation within PPA (Primary Playing Area). Illumination Performance: LLF is 0.95 includes the dirt depreciation factor, illumination level guaranteed minimum 10 year & up to 25 years based on usage. *Refer to Warranty Letter.

Color/CRI/NEMA: 5700K - 70CRI - NEMA 3, 4

Luminaire Output: 146469~153833 Lumens Total Load: 14.63 kW

LED Lifetime: L70>100,000 hours







Nova™ G2 800W/1000W/1200W Weight: 77 lbs. EPA: 3.60 ft²

THIS DESIGN WAS DONE IN ACCORDANCE WITH ILLUMINATION SOCIETY OR NORTH AMERICA STANDARDS MAINTAINED

GUARANTEE IS BASED ON PROPER INSTALLATION. MINIMUM INPUT VOLTAGE+/- 3 FEET, AND POLES PLACED WITHIN 4 FEET OF SPECIFIED LOCATIONS, POLES TO COMPLY WITH CURRENT ASSHTO STANDARDS.

> THIS IS PRINT IS FOR PROPOSAL USE ONLY AND IS NOT TO BE USED FOR PRODUCTION.



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Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	# Pts	cv	UG	PtSpcLr	PtSpcTb	Grid Z
164ft_V_III_Seg1	Vertical Illuminance	Fc	30.57	43.3	19.0	1.61	2.28	378	0.19	N.A.	6.5	6.5	NA
600ft_V_III_Seg1	Vertical Illuminance	Fc	11.21	13.7	5.1	2.20	2.69	180	0.19	N.A.	6.5	6.5	NA
Golf_H	Illuminance	Fc	1.51	9.6	0.1	15.10	96.00	1145	1.12	2.63	20	20	0
Spill_H	Illuminance	Fc	0.01	0.1	0.0	N.A.	N.A.	27	2.63	N.A.	30	N.A.	N.A
Spill_V_Cd_Seg1	Vertical Candela	N.A.	44518	84345	6785	6.56	12.43	27	0.55	N.A.	30	5	N.A
Spill_V_III_Seg1	Vertical Illuminance	Fc	0.11	0.2	0.1	1.10	2.00	27	0.33	N.A.	30	5	N.A
Tee boxes	Illuminance	Fc	7.22	26.2	1.2	6.02	21.83	477	0.82	3.22	10	10	0



Recreation Areas to Professional Locales









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File# 04292022 9601 Variel Ave. Chatsworth, CA 91311 818-206-4404 www.tgssports.com



Mounting Height: 42ft (Above Grade)

LumNo	Label	x	Y	z	Orlent	Tilt	X-Aimpt	Y-Aimpt	Z-Aimpi
1	SPL2-1250-57-H-D-3	1298.644	260.843	42	158.066	87.452	422.326	613.72	0
2	SPL2-1250-57-H-D-4 40D	1289.925	224.818	42	157.678	68.687	1189,413	266.086	0
3	SPL2-1250-57-H-D-3	1271.727	193.344	42	155.499	87.446	414.067	584.227	0
4	SPL2-1250-57-H-D-3	1241.714	131.241	42	154.506	87.461	385.753	539.396	0
5	SPL2-1250-57-H-D-4 40D	1222.273	95.699	42	154.65	72.027	1104.365	151.561	0
6	SPL2-1250-57-H-D-3	1207.737	68.761	42	153.495	87.47	356.250	493.386	0
7	SPL2-1250-57-H-D-3	1166.965	10.245	42	151.808	87.453	333.844	456.813	0
8	SPL2-1250-57-H-D-4 40D	1157.327	-15.636	42	153.395	71.159	1046.378	39.935	0
9	SPL2-1250-57-H-D-3	1140.671	-35.566	42	150.403	87.508	300.811	441.475	0
10	SPL2-1250-57-H-D-3	1100.653	-85.634	42	148.816	87.534	265.486	419.851	0
11	SPL2-1250-57-H-D-4 40D	1083.877	-113.828	42	145.737	69.378	990.807	-50.429	0
12	SPL2-1250-57-H-D-3	1069.401	-131.715	42	148,501	87.52	241.823	375.409	0



Orient values shown in TGS Installation layout are based on 0° being Plan East. Plan East means 0° is heading to the right side of layout drawing as you hold it in front of you, which is not necessarily geodetic or True East.

Orientation

Pre-aiming base on modulo positioning



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3D Rendering

Color Rendering





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