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Takeoff Samples

Attached below are samples of what will be provided for takeoff requests. Each take off report will show views of the area, grading takeoffs will show 3D existing, proposed, and subgrade views, a cut fill map, and reports for cut fill, stripping/demo, subgrade cut fill, and subgrade materials reports. All pipe takeoffs will be accompanied with a PDF spreadsheet that will show type of pipe, pipe diameter, lengths of pipe, elevations of rims and inverts, backfill, bedding, if it is under pavement or not under pavement, and a marked up overview of the project. All erosion control and demo takeoffs will show the quantities of work areas along with a marked up overview of the project. We offer the EZ View file that combines all of these reports together onto (1) one spreadsheet for easier viewing, this is an additional service that can be offered with any takeoff.

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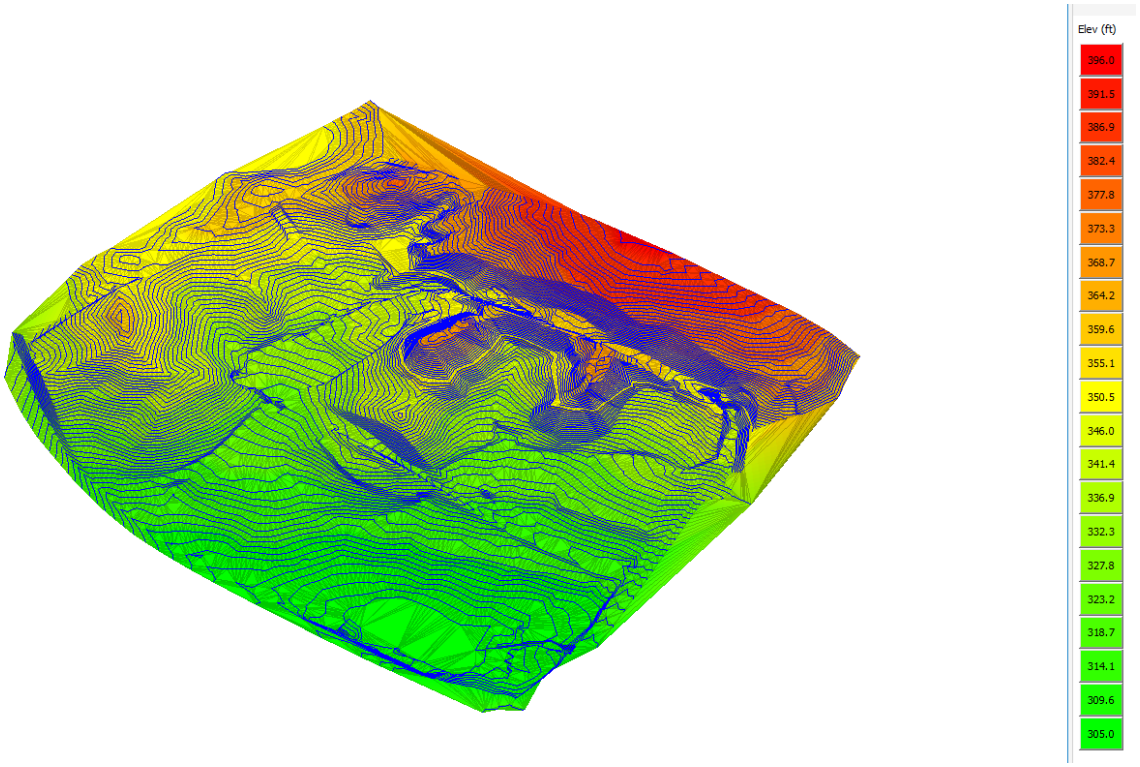
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Takeoff - Grading Examples

Existing 3D View

This illustrates a view of the project as it sits prior to any excavation.

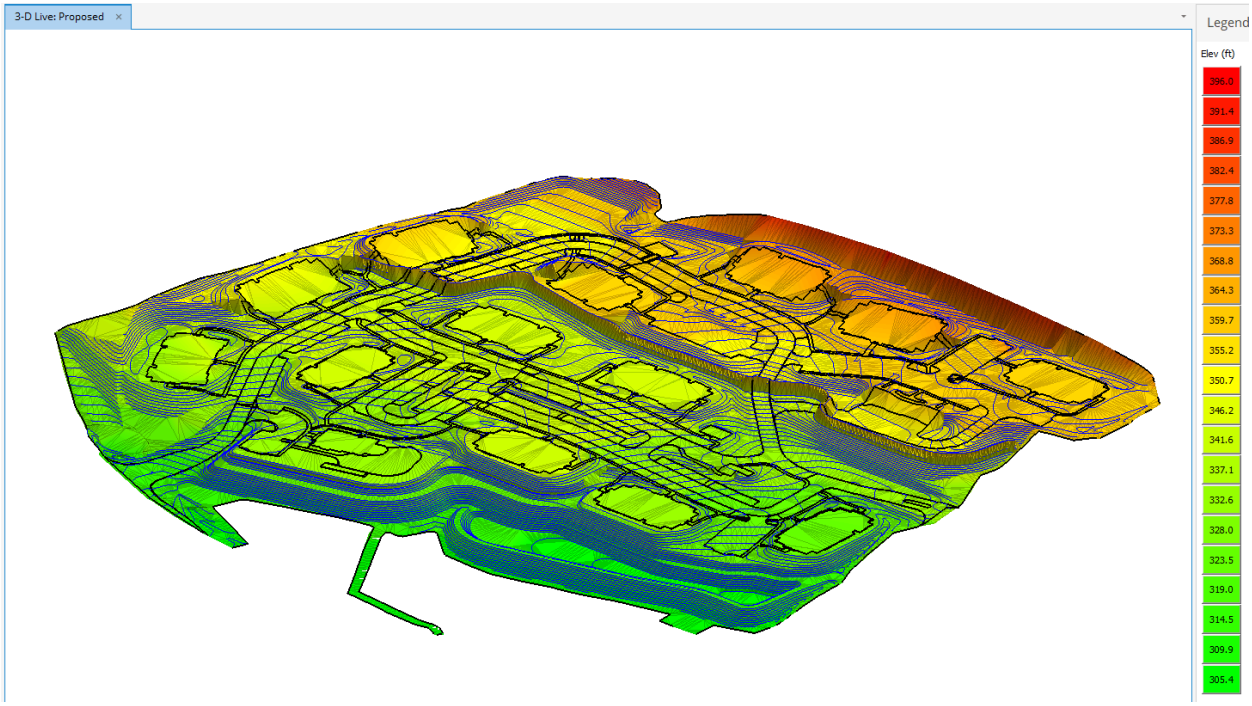


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Proposed 3D View

This illustrates the project after cut or fills have been made from the proposed contour lines.

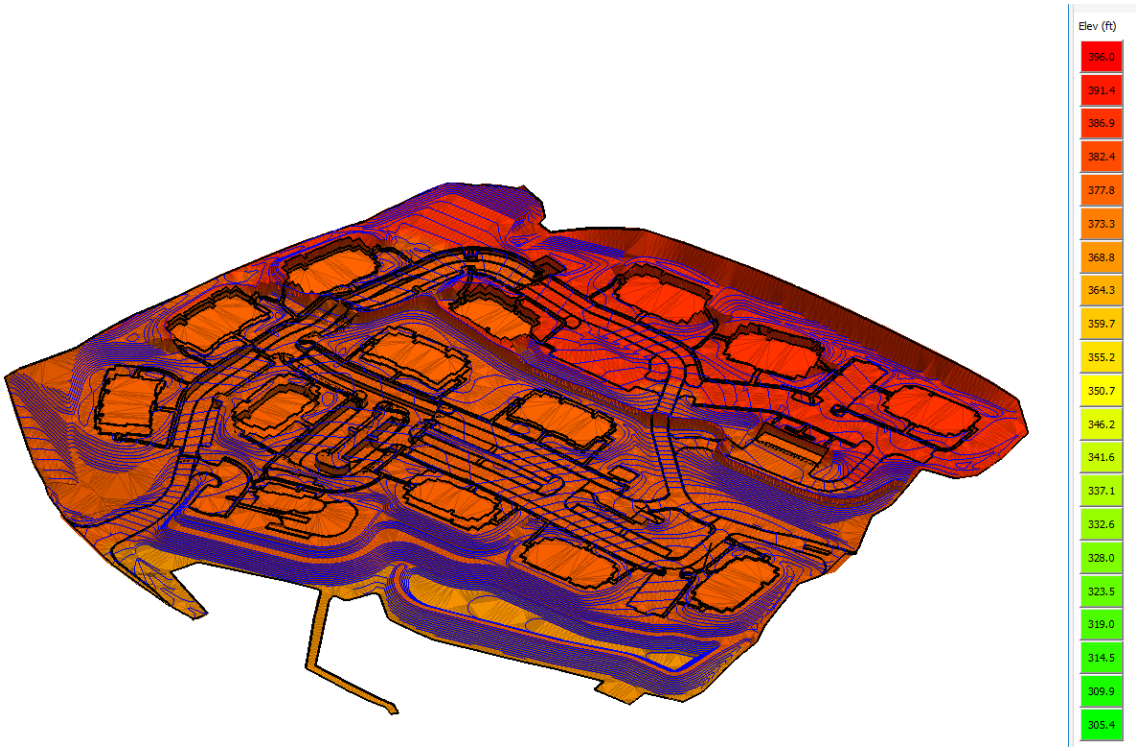


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Subgrade 3D View

This illustrates a view of the project after subgrade cuts and fills prior to any pavement being put down.

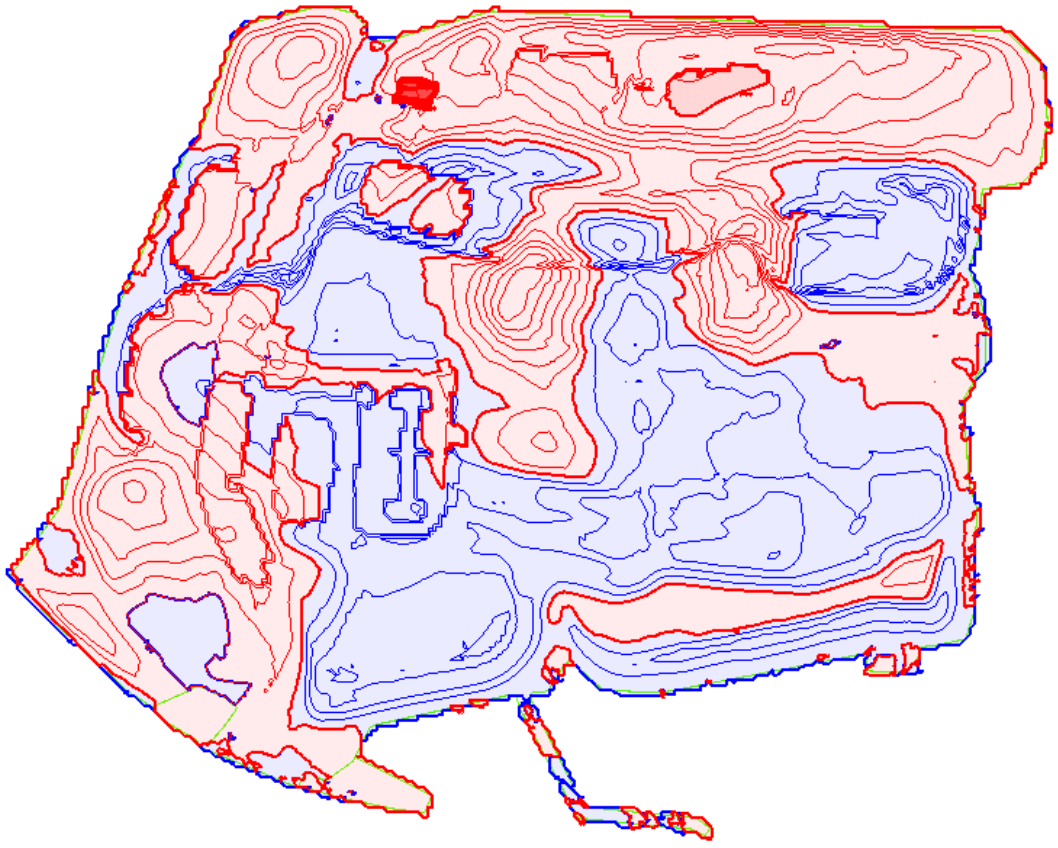


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Cut Fill Map

This shows where cuts and fills will be made. This can be shown as detailed as every 4” interval of cut and fill.

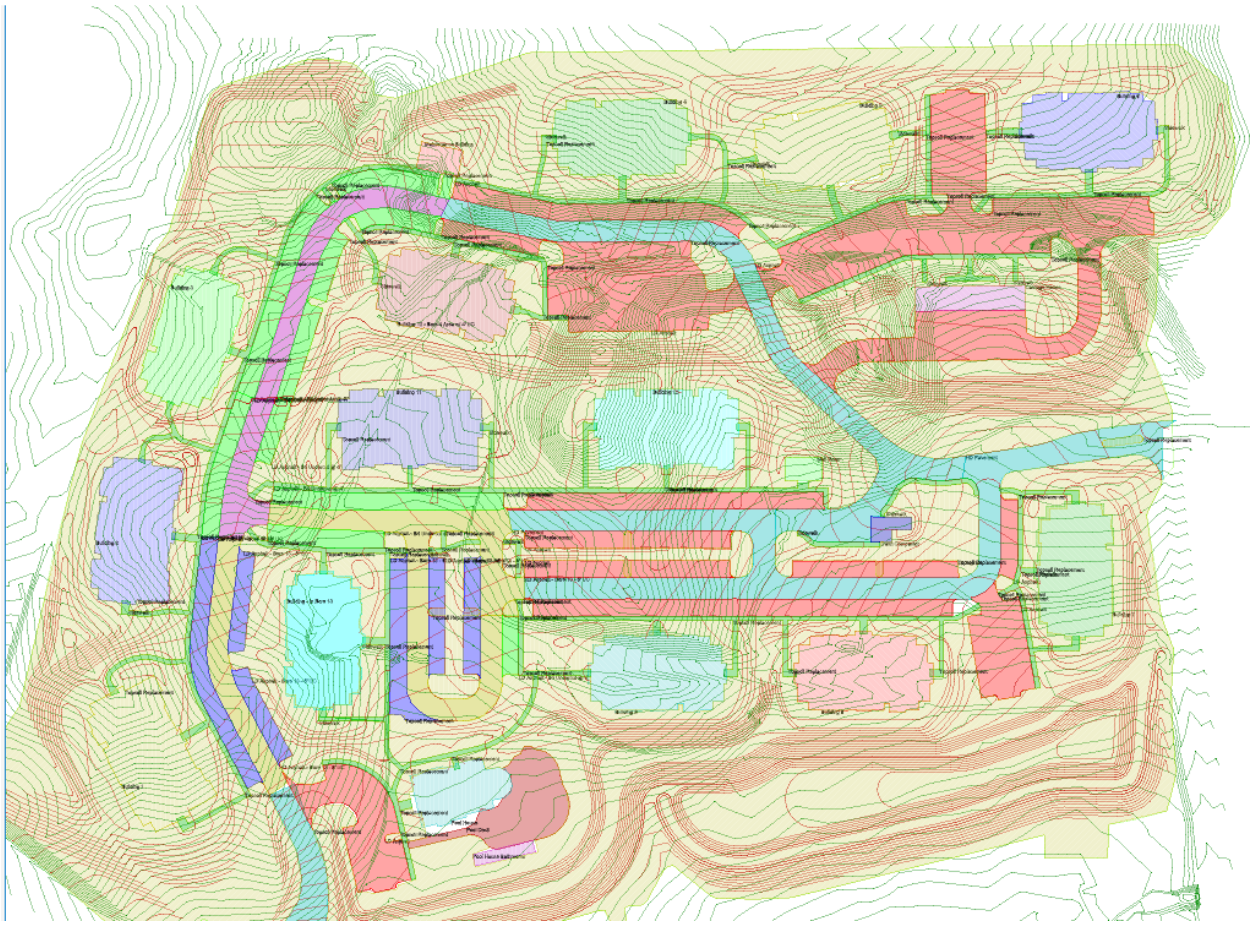


Subgrade View

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This illustrates where certain subgrades are located (pavements, foundations, topsoil, specialty material areas). This is color coded to the subgrade cut fill and subgrade materials reports.

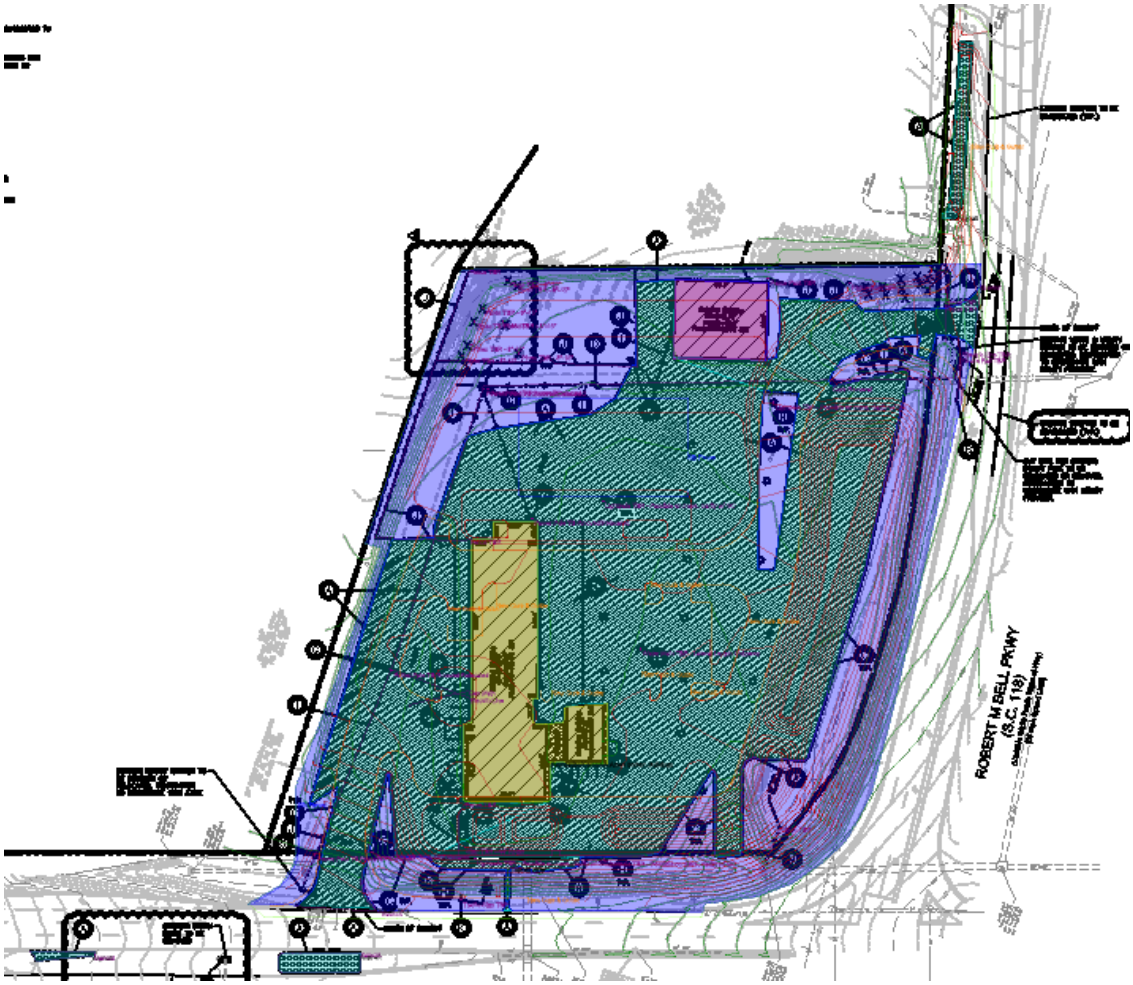


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Strip/Demo View

This illustrates the areas of demolition work areas.This is color coded to the strip/demo report.



Cut Fill Report Samples

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Cut Fill Report - shows the overall stripping, cut, fill, and topsoil replacement.

Company Name - Project Name

Cut and Fill Report

08/26/2024 21:14:04

Grid/Subgrid	2.00/1.00
Section size (Ft)	443.50 x 736.19
Total Work Area (SF)	80,428
Area of Cut (SF)	6,484
Area of Fill (SF)	73,448

Cut Area Threshold 0.01 Ft

Fill Area Threshold 0.01 Ft

All units in Cubic Yards

	Bank	Compacted	Expanded	Comp / Exp (%)
Stripping				
Topsoil	1,448	1,448	1,448	/
Sand	7	7	7	/
Clay				/
Stripping Total	**1,455**	**1,455**	**1,455**	
Export Stripping		**2**	**2**	
Cut				
Topsoil				/
Sand	64	64	64	/
Clay	1	1	1	/
Cut Total	**65**	**65**	**65**	
Export Cut				
Total Export (Stripping and Cut)		**2**	**2**	
Fill				
In Place Fill Required		6,470		
Stripping and/or Cut Used as Fill	819	819	819	
Import Fill		5,651		
Topsoil Replacement				
Topsoil Replacement Required		700		
Topsoil Replacement Obtained On Site	699	699	699	
Import Topsoil		1		

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Strip & Demolition Report - the first image shows the detailed breakdown of the strip and demo areas showing the area description, value of depth, square footage, thickness per material type, and CYU per item. The second image (next page) shows the total CYU added up per materials type demo'd.

Company Name - Project Name

Stripping and Demolition Report

08/26/2024 21:14:40

#	Desc	Type	Value	Area (SF)	Material	THK (Ft)	CY	Chg/.1 Ft
1	Topsoil Strip	STP	Topsoil	79,831	Topsoil Strip			296
2	Sidewalk	STP	0.33	373	Concrete	.33	5	1
5	Roadway Removal for Utilities - Assumed	STP	0.92	335	ABC	.67	8	1
					Asphalt	.25	3	1

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Strip & Demolition Report Cont.

Company Name - Project Name

Stripping and Demolition Report

08/26/2024 21:14:40

Material Totals	CY
ABC	8
Asphalt	3
Concrete	5

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Subgrade Cut Fill Report - this shows the subgrade description, depth, area, fill CYU, and cut CYU for their respective areas.

Company Name - Project Name

Subgrade Cut and Fill Report

08/26/2024 21:14:58

#	Desc	Type	Value	Area (SF)	Fill (CY)	Cut (CY) →	Bank	Compacted	Expanded	Chg/.1 Ft
1	Topsoil Replacement	TSR	0.5	33,001	2,526		29	29	29	122
2	Pond - Assumed	TSR	0.5	2,930	113		9	9	9	11
8	Asphalt Paving	DPT	0.67	18,340	2,106		20	20	20	68
9	Sidewalk	DPT	0.33	12,636	895		5	5	5	47
10	Building Pad - Assumed Thickness	EL	11.24	10,994	553		0	0	0	41
11	Trash Pad	DPT	1	144	21		0	0	0	1
15	Interior Topsoil Replacement - Use EF if Fill Area	TSR	0.5	2,107	209		1	1	1	8
20	Roadcut Patch	DPT	0.78	322	2		0	0	0	1
21	Pavers w/ Geo Fab	DPT	0.6	322	46		0	0	0	1
All				80,797	6,470		65	65	65	299

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Subgrade Materials - the first image shows the detailed breakdown of the subgrade areas showing the area description, value of depth, square footage, thickness per material type, and CYU per item. The second image (next page) shows the total CYU added up per materials type.

Company Name - Project Name

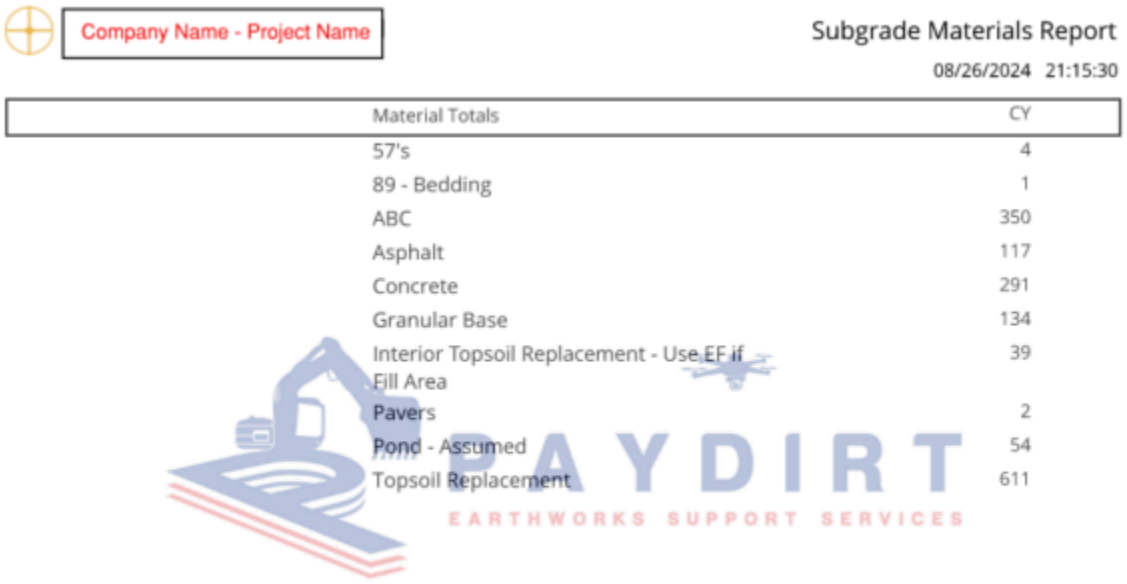
Subgrade Materials Report

08/26/2024 21:15:30

#	Desc	Type	Value	Area (SF)	Material	THK (Ft)	CY
1	Topsoil Replacement	TSR	0.5	33,001	Topsoil Replacement	.50	611
2	Pond - Assumed	TSR	0.5	2,930	Pond - Assumed	.50	54
8	Asphalt Paving	DPT	0.67	18,340	ABC	.50	340
					Asphalt	.17	115
9	Sidewalk	DPT	0.33	12,636	Concrete	.33	154
10	Building Pad - Assumed Thickness	EL	11.24	10,994	Concrete	.33	134
					Granular Base	.33	134
11	Trash Pad	DPT	1	144	ABC	.50	3
					Concrete	.50	3
15	Interior Topsoil Replacement - Use EF if Fill Area	TSR	0.5	2,107	Interior Topsoil Replacement - Use EF if Fill Area	.50	39
20	Roadcut Patch	DPT	0.78	322	Asphalt	.11	1
					ABC	.67	8
21	Pavers w/ Geo Fab	DPT	0.6	322	Pavers	.20	2
					89 - Bedding	.07	1
					57's	.33	4

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Subgrade Materials Cont.



Company Name - Project Name

Subgrade Materials Report

08/26/2024 21:15:30

Material Totals	CY
57's	4
89 - Bedding	1
ABC	350
Asphalt	117
Concrete	291
Granular Base	134
Interior Topsoil Replacement - Use EF if Fill Area	39
Pavers	2
Pond - Assumed	54
Topsoil Replacement	611

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Cut Fill Takeoff Notes - Here we provide information on the details and geotech report. This helps you locate details, important notes from the geotech report, and screenshots of the details and geotech information that affects your project.



Existing:	P5
Demo Plan:	P6
Site Plan:	P7
Grading:	P21

STRIP & DEMO:
Topsoil Strip to Strata
Asphalt Pavement assumed (3" Asphalt, 7" Crushed Stone Base) **Based on Geo Bore Logs**
Curb and Gutter assumed at (6" Concrete, 8" Graded Aggregate Base)
Concrete Sidewalk assumed at (4" Concrete)

SUBGRADE: *Geotech recommends undercut of up to 2' for 30% of subgrades – did nopt call out areas where undercut is needed
Topsoil Replacement assumed at (6" Topsoil)
HD Asphalt (4" Asphalt, 8" Graded Aggregate Base) **Geo P16**
SD Asphalt (2" Asphalt, 6" Graded Aggregate Base) **Geo P16**
HD Concrete (7" Concrete, 5" Graded Aggregate Base) **Geo P17**
Curb and Gutter (6" Concrete, 8" Graded Aggregate Base) **P18**
Dumpster Pad (7" Concrete, 5" Graded Aggregate Base) **Geo P17**
Concrete Sidewalk (4" Concrete) **P18**
Gravel Parking w/ Geotextile Fabric (10" Graded Aggregate Base) **P20**
Building Slab assumed at (6" Concrete, 4" #57 Stone) **Geo P15**
Equipment Pad assumed at (8" Concrete)
ADA Ramp assumed at (4" Concrete)
Equipment Pad assumed at (4" Concrete)

Cut Fill Takeoff Notes Cont.

Flexible Pavement Design

Based on our experience with similar projects, assuming standard pavement design parameters, and contingent upon proper pavement subgrade preparation, we recommend the following pavement sections:

Entrance/Exit Driveways and Truck Traffic Areas

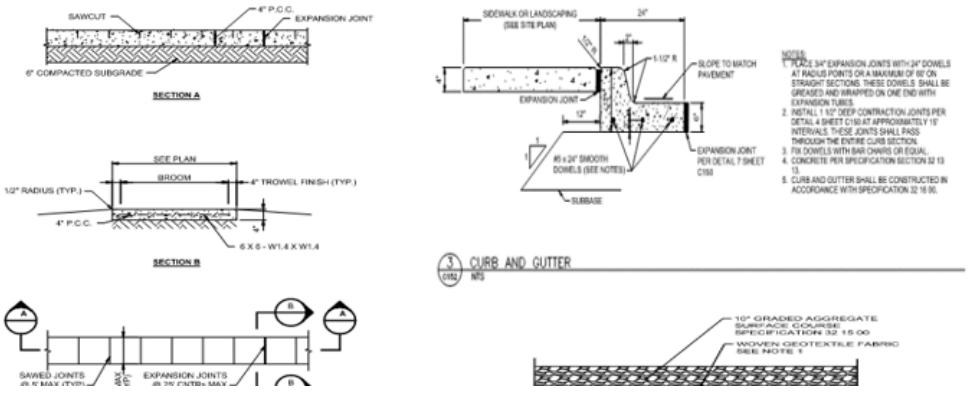
Material	Thickness (inches)
Type B Surface Course	2
Type C Intermediate Course	2
Graded Aggregate Base (GAB)	8
Subgrade compacted to at least 98% maximum dry density (ASTM D698)	12

Automobile Parking Stalls

Material	Thickness (inches)
Type B Surface Course	2
Graded Aggregate Base (GAB)	6
Subgrade compacted to at least 98% maximum dry density (ASTM D698)	12

Concrete Pavement

A rigid portland cement concrete pavement may be considered. Although usually more costly, a portland cement concrete pavement is typically more durable and requires less maintenance throughout the life cycle of the facility. Concrete thicknesses of 5 inches in automobile parking areas and 6 inches in driveways and truck traffic areas are recommended. A concrete thickness of 7 inches is recommended for the approach and collection zone in front of the dumpster and in any designated truck turn-around areas. A 600-psi flexural strength concrete mix with 4 to 6 percent air entrainment should be used. The concrete pavement should be underlain by no less than 5 inches of compacted graded aggregate base (GAB). GAB should be compacted to at least 100 percent of the modified Proctor maximum dry density (ASTM D1557). The top 12 inches of soil subgrade should be compacted to at least 100 percent of the standard Proctor maximum dry density (ASTM D698).

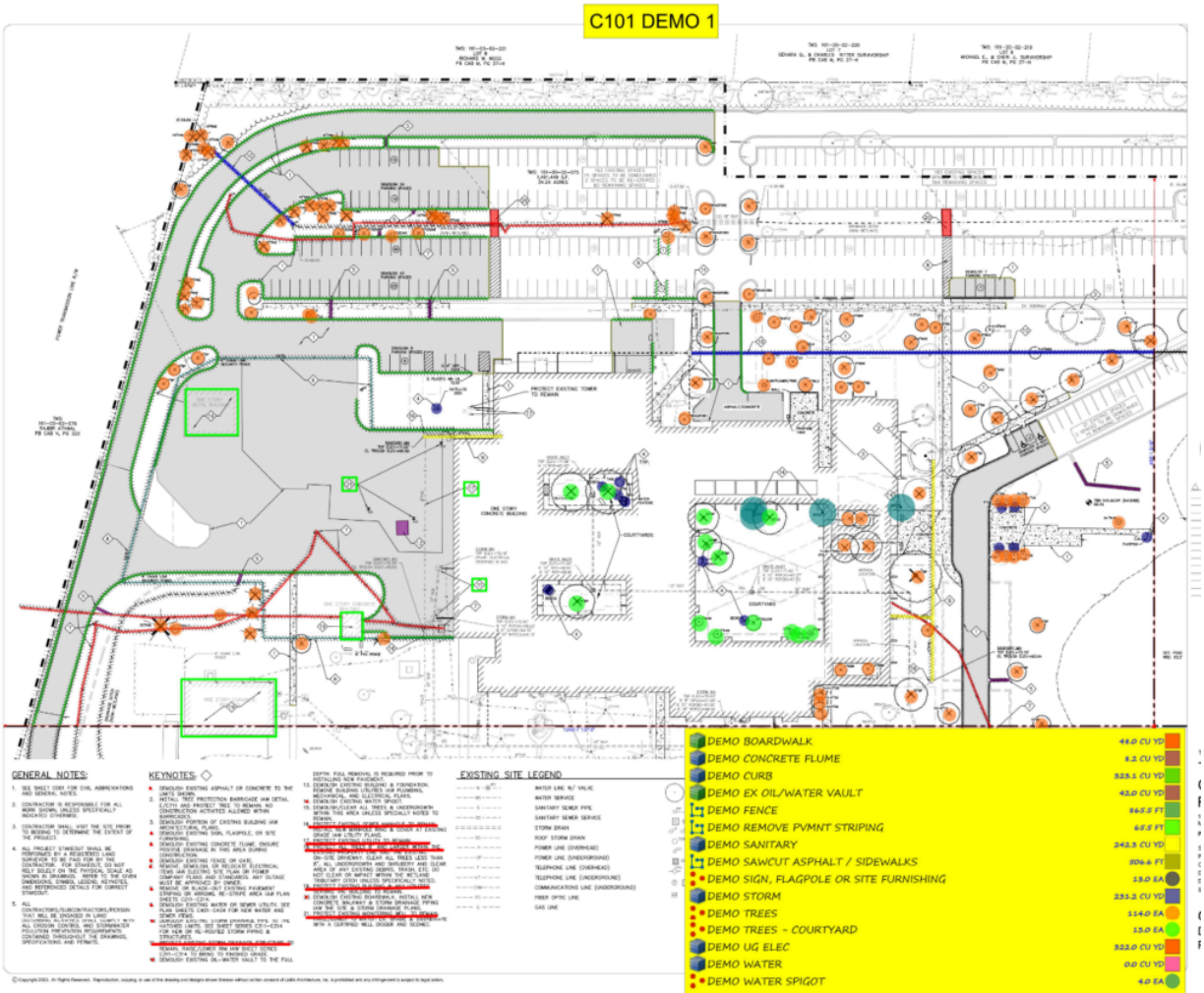


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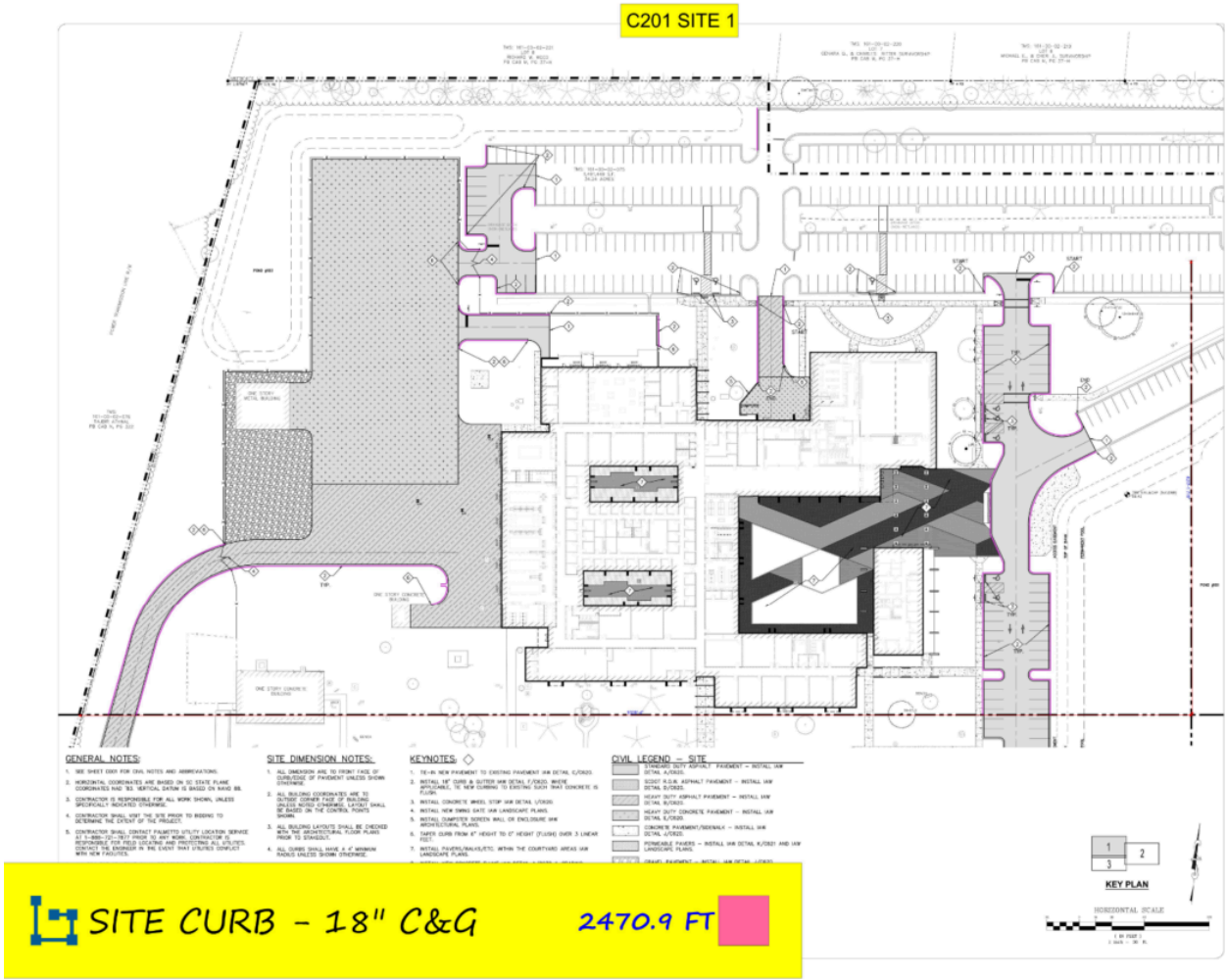
Pipe, Curb, Demo, and Erosion Control Samples



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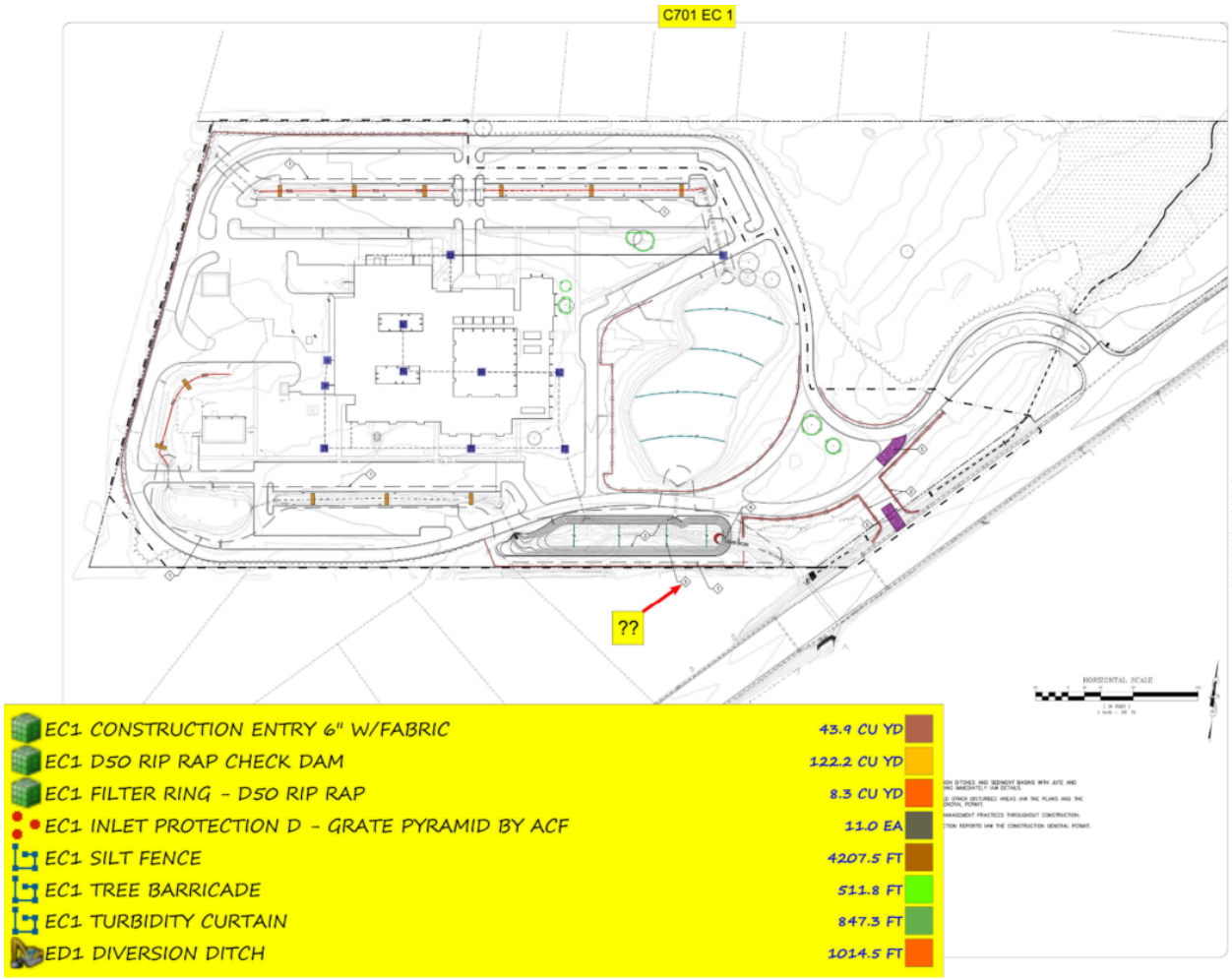
Pipe, Curb, Demo, and Erosion Control Samples Continued



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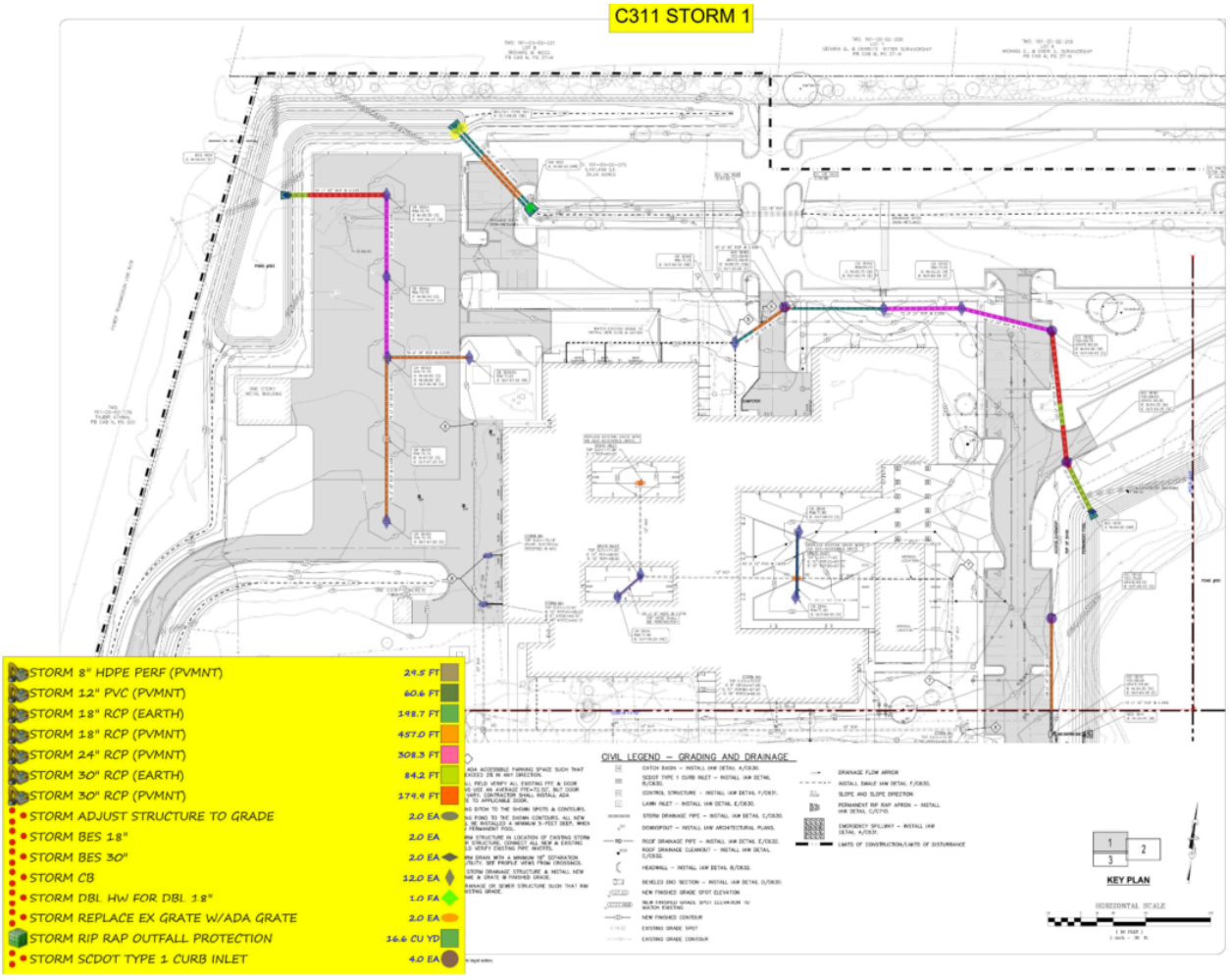
Pipe, Curb, Demo, and Erosion Control Samples Continued



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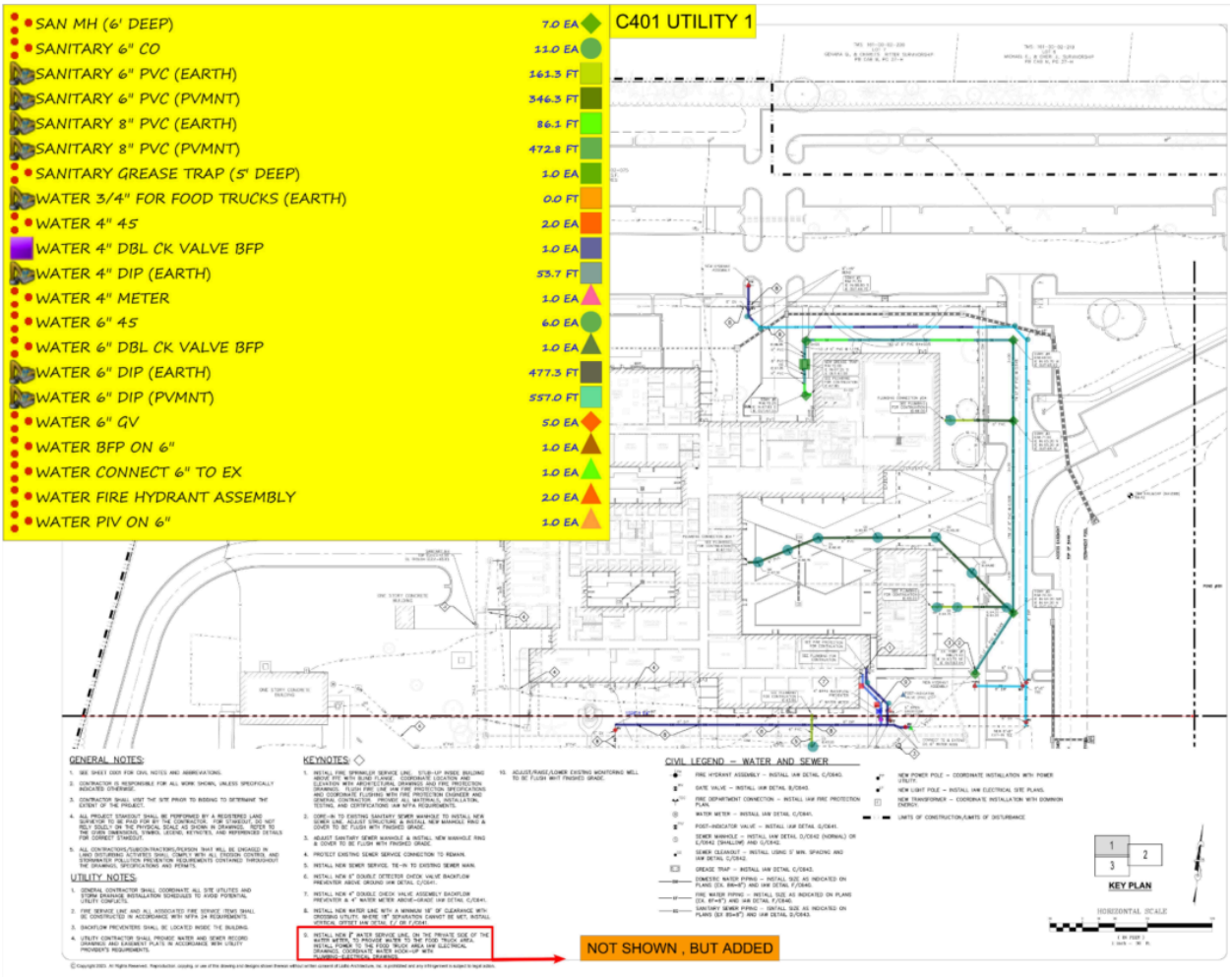
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Company Name - Project Name	Description	Qty	Units	inear Tota	Area	Colo
DEMO						
DEMO BOARDWALK		73.64	CU YD	203.49	662.73	
DEMO CONCRETE FLUME		9.32	CU YD	201.36	439.62	
DEMO CURB		0	CU YD	0	0	
DEMO CURB		495.75	CU YD	6692.64	206212.29	
DEMO EX OIL/WATER VAULT	DEMO CY = 14		CU YD	47.79	141.6	
DEMO FENCE		865.5	FT	865.5	30802.38	
DEMO REMOVE PVMNT STRIPING		1017.2	FT	1017.2	1100.73	
DEMO SANITARY		242.3	CU YD	311.53	0	
DEMO SAWCUT ASPHALT / SIDEWALKS		1003.04	FT	1003.04	4915.73	
DEMO SIGN, FLAGPOLE OR SITE FURNISHING		22	EA	444.21	558.95	
DEMO STORM		266.31	CU YD	599.19	0	
DEMO TREES		303	EA	11925.09	231122.38	
DEMO TREES - COURTYARD		13	EA	576.01	15420.49	
DEMO UG ELEC		590.53	CU YD	2657.4	41177.19	
DEMO WATER		49.2	CU YD	110.69	0	
DEMO WATER SPIGOT		4	EA	67.78	153.77	
EROSION CONTROL						
EC1 CONSTRUCTION ENTRY 6" W/FABRIC		43.93	CU YD	315.3	2372.11	
EC1 D50 RIP RAP CHECK DAM		122.19	CU YD	620.93	1649.53	
EC1 DIVERSION DITCH	2.00' x 1.00' Type C Trench	1014.49	FT	1014.49	8657.21	
Excavated Volume		131.51	CU YD	1014.49	8657.21	
Pipe Displaced Volume		0	CU YD	1014.49	8657.21	
Native Backfill		131.51	CU YD	1014.49	8657.21	
Pipe Zone Backfill		0	CU YD	1014.49	8657.21	
Bedding		0	CU YD	1014.49	8657.21	
EC1 FILTER RING - D50 RIP RAP		8.27	CU YD	69.64	111.69	
EC1 INLET PROTECTION D - GRATE PYRAMID BY ACF		11	EA	1928.1	108578.31	
EC1 SILT FENCE		4207.47	FT	4207.47	343121.42	
EC1 TREE BARRICADE		511.82	FT	511.82	4088	
EC1 TURBIDITY CURTAIN		847.26	FT	847.26	5095.81	
EC2 INLET PROTECTION D - GRATE PYRAMID BY ACF		14	EA	1820.12	146161.33	
EC2 INLET PROTECTION F - GUTTER BUDDY Y ACF		8	EA	1113.62	102555.46	
EC2 SILT FENCE		1169.38	FT	1169.38	21283.68	
EC2 TEMP SEED		93703.02	SQ FT	4415.92	93703.02	
EC3 PERM SEED/LANDSCAPING		63440.38	SQ FT	3352.52	63440.38	

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Pipe, Curb, Demo, and Erosion Control Samples Continued

SANITARY					
SAN MH (6' DEEP)		7	EA	1071.6	79224.04
SANITARY 6" CO		11	EA	505.04	12461.58
SANITARY 6" PVC (EARTH)	2.50' x 6.00' Vertical Trench	161.27	FT	161.27	0
Excavated Volume		89.59	CU YD	161.27	0
Pipe Displaced Volume		1.17	CU YD	161.27	0
Native Backfill		74.66	CU YD	161.27	0
Pipe Zone Backfill Class 1		6.29	CU YD	161.27	0
Bedding Class 1		7.47	CU YD	161.27	0
SANITARY 6" PVC (PVMNT)	2.50' x 6.00' Vertical Trench	346.33	FT	346.33	8095.31
Excavated Volume		192.41	CU YD	346.33	8095.31
Pipe Displaced Volume		2.52	CU YD	346.33	8095.31
Select Backfill		160.34	CU YD	346.33	8095.31
Pipe Zone Backfill Class 1		13.52	CU YD	346.33	8095.31
Bedding Class 1		16.03	CU YD	346.33	8095.31
SANITARY 8" PVC (EARTH)	2.67' x 6.00' Vertical Trench	86.09	FT	86.09	0
Excavated Volume		51.08	CU YD	86.09	0
Pipe Displaced Volume		1.11	CU YD	86.09	0
Native Backfill		41.15	CU YD	86.09	0
Pipe Zone Backfill Class 1		4.56	CU YD	86.09	0
Bedding Class 1		4.26	CU YD	86.09	0
SANITARY 8" PVC (PVMNT)	2.67' x 6.00' Vertical Trench	472.84	FT	472.84	10250.43
Excavated Volume		280.55	CU YD	472.84	10250.43
Pipe Displaced Volume		6.11	CU YD	472.84	10250.43
Select Backfill		226	CU YD	472.84	10250.43
Pipe Zone Backfill Class 1		25.06	CU YD	472.84	10250.43
Bedding Class 1		23.38	CU YD	472.84	10250.43
SANITARY GREASE TRAP (5' DEEP)		1	EA	0	0
SITE					
SITE CURB - 18" C&G		4589.02	FT	4589.02	82191.67

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Pipe, Curb, Demo, and Erosion Control Samples Continued

STORM						
STORM 8" HDPE PERF (PVMNT)	2.67' x 3.50' Vertical Trench	29.47	FT	29.47	0	
Excavated Volume		10.2	CU YD	29.47	0	
Pipe Displaced Volume		0.38	CU YD	29.47	0	
Native Backfill		0	CU YD	29.47	0	
Pipe Zone Backfill 57		8.36	CU YD	29.47	0	
Bedding 57		1.46	CU YD	29.47	0	
STORM 12" PVC (PVMNT)	3.00' x 3.50' Vertical Trench	60.58	FT	60.58	0	
Excavated Volume		23.56	CU YD	60.58	0	
Pipe Displaced Volume		1.76	CU YD	60.58	0	
Select Backfill		13.46	CU YD	60.58	0	
Pipe Zone Backfill 57		4.97	CU YD	60.58	0	
Bedding 57		3.37	CU YD	60.58	0	
STORM 18" RCP (EARTH)	2.50' x 4.20' Vertical Trench	198.65	FT	198.65	0	
Excavated Volume		77.25	CU YD	198.65	0	
Pipe Displaced Volume		13	CU YD	198.65	0	
Native Backfill		45.86	CU YD	198.65	0	
Pipe Zone Backfill		0	CU YD	198.65	0	
Bedding 57		18.39	CU YD	198.65	0	
STORM 18" RCP (PVMNT)	2.50' x 4.22' Vertical Trench	456.95	FT	456.95	81.64	
Excavated Volume		178.55	CU YD	456.95	81.64	
Pipe Displaced Volume		0	CU YD	456.95	81.64	
Select Backfill		136.24	CU YD	456.95	81.64	
Pipe Zone Backfill		0	CU YD	456.95	81.64	
Bedding 57		42.31	CU YD	456.95	81.64	
STORM 24" RCP (EARTH)	4.00' x 4.20' Vertical Trench	45.24	FT	45.24	0	
Excavated Volume		28.15	CU YD	45.24	0	
Pipe Displaced Volume		5.26	CU YD	45.24	0	
Native Backfill		16.18	CU YD	45.24	0	
Pipe Zone Backfill		0	CU YD	45.24	0	
Bedding 57		6.7	CU YD	45.24	0	
STORM 24" RCP (PVMNT)	4.00' x 4.20' Vertical Trench	360.73	FT	360.73	777.34	

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Pipe, Curb, Demo, and Erosion Control Samples Continued

Excavated Volume		58.97	CU YD	84.24	0	
Pipe Displaced Volume		15.32	CU YD	84.24	0	
Native Backfill		29.61	CU YD	84.24	0	
Pipe Zone Backfill		0	CU YD	84.24	0	
Bedding 57		14.04	CU YD	84.24	0	
STORM 30" RCP (PVMNT)	4.50' x 4.20' Vertical Trench	179.94	FT	179.94	42.05	
Excavated Volume		125.96	CU YD	179.94	42.05	
Pipe Displaced Volume		32.71	CU YD	179.94	42.05	
Select Backfill		63.25	CU YD	179.94	42.05	
Pipe Zone Backfill		0	CU YD	179.94	42.05	
Bedding 57		29.99	CU YD	179.94	42.05	
STORM 36" RCP (PVMNT)	5.00' x 5.00' Vertical Trench	118.31	FT	118.31	0	
Excavated Volume		109.55	CU YD	118.31	0	
Pipe Displaced Volume		30.97	CU YD	118.31	0	
Select Backfill		56.66	CU YD	118.31	0	
Pipe Zone Backfill		0	CU YD	118.31	0	
Bedding 57		21.91	CU YD	118.31	0	
STORM 48" RCPPOND (INSTALLED DURING EC) (EARTH)	6.00' x 5.00' Vertical Trench	46	FT	46	0	
Excavated Volume		51.11	CU YD	46	0	
Pipe Displaced Volume		21.41	CU YD	46	0	
Native Backfill		19.48	CU YD	46	0	
Pipe Zone Backfill		0	CU YD	46	0	
Bedding 57		10.22	CU YD	46	0	
STORM ADJUST STRUCTURE TO GRADE		2	EA	45.91	0	
STORM BES 18"		2	EA	9.11	0	
STORM BES 30"		2	EA	798.39	0	
STORM BES DRIVEWAY A AND B		2	EA	67	0	
STORM BES ON 24"		1	EA	0	0	
STORM CB		12	EA	1380.94	111030.5	
STORM DBL HW FOR DBL 18"		1	EA	0	0	
STORM POND 1B SPILLWAY RIP RAP		21.37	CU YD	218.15	1153.78	
STORM POND CONTROL STRUCTURE (INSTALLED DURING EC)		1	EA	0	0	
STORM REPLACE EX GRATE W/ADA GRATE		2	EA	0	0	
STORM RIP RAP OUTFALL PROTECTION		26.7	CU YD	234.43	480.57	
STORM SCDOT TYPE 1 CURB INLET		5	EA	514.54	34569.7	

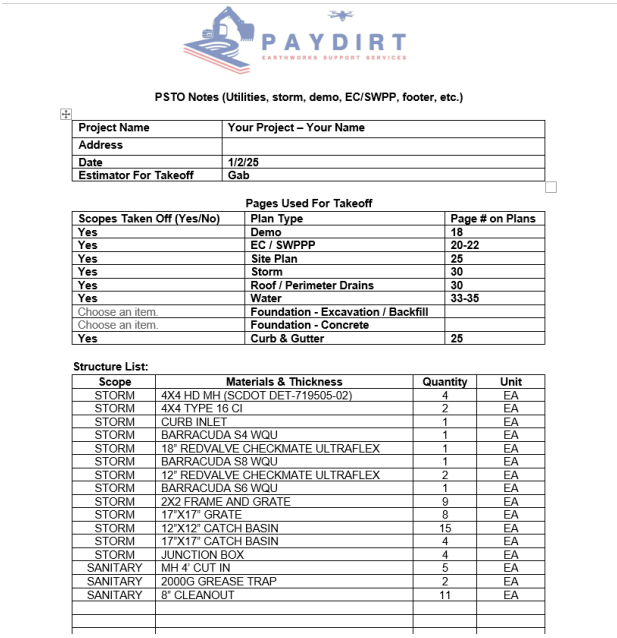
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Pipe, Curb, Demo, and Erosion Control Samples Continued

WATER						
WATER 3/4" FOR FOOD TRUCKS (EARTH)	2.00' x 4.10' Vertical Trench	124.06	FT	124.06	1267.79	
Excavated Volume		37.68	CU YD	124.06	1267.79	
Pipe Displaced Volume		0.01	CU YD	124.06	1267.79	
Native Backfill		27.72	CU YD	124.06	1267.79	
Pipe Zone Backfill 57		0.75	CU YD	124.06	1267.79	
Bedding 57		9.19	CU YD	124.06	1267.79	
WATER 4" 45		2	EA	22.23	0	
WATER 4" DBL CK VALVE BFP		1	EA	0	0	
WATER 4" DIP (EARTH)	2.50' x 4.50' Vertical Trench	53.7	FT	53.7	78.39	
Excavated Volume		22.38	CU YD	53.7	78.39	
Pipe Displaced Volume		0.17	CU YD	53.7	78.39	
Native Backfill		22.2	CU YD	53.7	78.39	
Pipe Zone Backfill		0	CU YD	53.7	78.39	
Bedding		0	CU YD	53.7	78.39	
WATER 4" METER		1	EA	0	0	
WATER 6" 22.5		2	EA	6.21	0	
WATER 6" 45		6	EA	656.14	47343.02	
WATER 6" 90		1	EA	0	0	
WATER 6" DBL CK VALVE BFP		1	EA	0	0	
WATER 6" DIP (EARTH)	2.50' x 4.50' Vertical Trench	505.43	FT	505.43	326.38	
Excavated Volume		210.6	CU YD	505.43	326.38	
Pipe Displaced Volume		3.68	CU YD	505.43	326.38	
Native Backfill		206.92	CU YD	505.43	326.38	
Pipe Zone Backfill		0	CU YD	505.43	326.38	
Bedding		0	CU YD	505.43	326.38	
WATER 6" DIP (PVMNT)	2.50' x 4.50' Vertical Trench	557.03	FT	557.03	8980.92	
Excavated Volume		232.1	CU YD	557.03	8980.92	
Pipe Displaced Volume		4.05	CU YD	557.03	8980.92	
Select Backfill		228.04	CU YD	557.03	8980.92	
Pipe Zone Backfill		0	CU YD	557.03	8980.92	
Bedding		0	CU YD	557.03	8980.92	
WATER 6" GV		5	EA	651.4	4782.71	
WATER 6X4 TEE		1	EA	0	0	
WATER 6X6 TEE		1	EA	0	0	
WATER BFP ON 6"		1	EA	0	0	
WATER CONNECT 6" TO EX		1	EA	0	0	
WATER FIRE HYDRANT ASSEMBLY		3	EA	425.14	0	

Underground Takeoff Notes - Here we provide information on the details and geotech report. This helps you locate details, important notes from the geotech report, and screenshots of the details and geotech information that affects your project.



PSTO Notes (Utilities, storm, demo, EC/SWPP, footer, etc.)

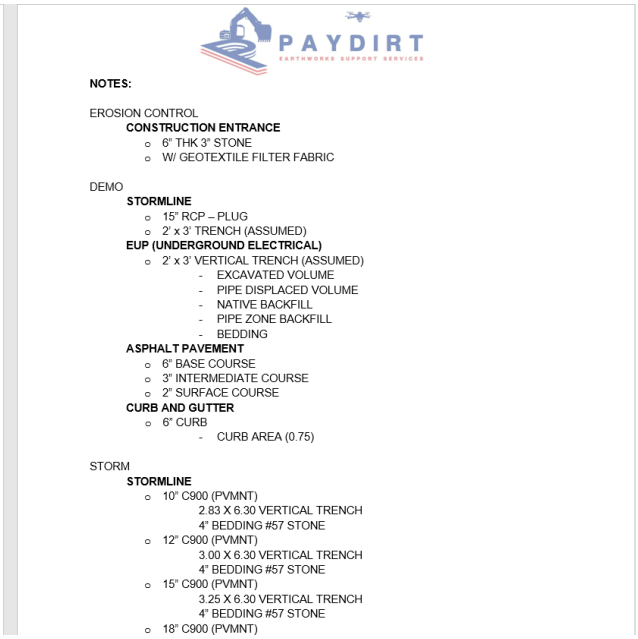
Project Name	Your Project – Your Name
Address	
Date	1/2/25
Estimator For Takeoff	Gab

Pages Used For Takeoff

Scopes Taken Off (Yes/No)	Plan Type	Page # on Plans
Yes	Demo	18
Yes	EC / SWPPP	20-22
Yes	Site Plan	25
Yes	Storm	30
Yes	Roof / Perimeter Drains	30
Yes	Water	33-35
Choose an item.	Foundation - Excavation / Backfill	
Choose an item.	Foundation - Concrete	
Yes	Curb & Gutter	25

Structure List:

Scope	Materials & Thickness	Quantity	Unit
STORM	4X4 HD MH (SCDOT DET-719505-02)	4	EA
STORM	4X4 TYPE 16 CI	2	EA
STORM	CURB INLET	1	EA
STORM	BARRACUDA S4 WQU	1	EA
STORM	18" REDVALVE CHECKMATE ULTRAFLEX	1	EA
STORM	BARRACUDA S8 WQU	1	EA
STORM	12" REDVALVE CHECKMATE ULTRAFLEX	2	EA
STORM	BARRACUDA S6 WQU	1	EA
STORM	2X2 FRAME AND GRATE	9	EA
STORM	17"X17" GRATE	8	EA
STORM	12"X12" CATCH BASIN	15	EA
STORM	17"X17" CATCH BASIN	4	EA
STORM	JUNCTION BOX	4	EA
SANITARY	MH 4' CUT IN	5	EA
SANITARY	2000G GREASE TRAP	2	EA
SANITARY	8" CLEANOUT	11	EA



NOTES:

EROSION CONTROL
- **CONSTRUCTION ENTRANCE**
  - 6" THK 3" STONE
  - W/ GEOTEXTILE FILTER FABRIC

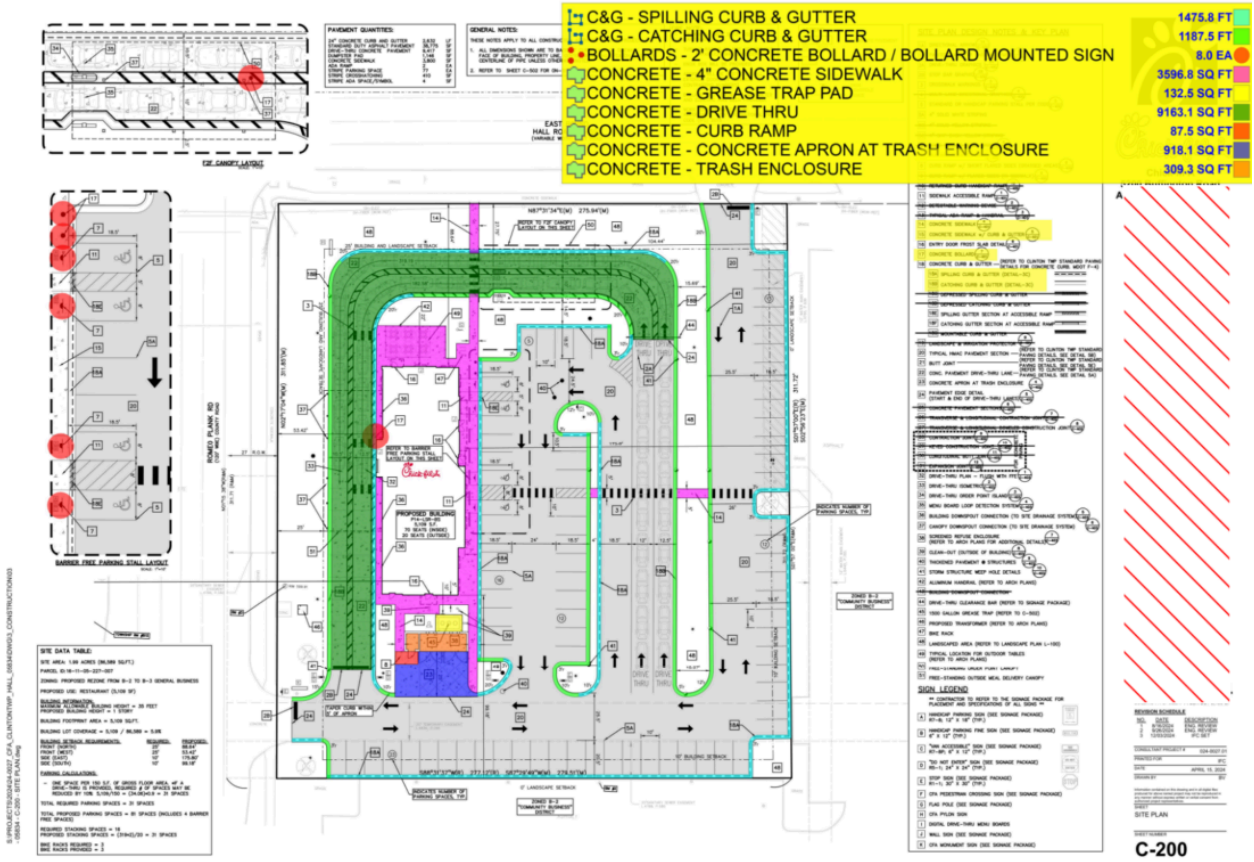
DEMO
- **STORMLINE**
  - 15" RCP – PLUG
  - 2' x 3' TRENCH (ASSUMED)
- **EUP (UNDERGROUND ELECTRICAL)**
  - 2' x 3' VERTICAL TRENCH (ASSUMED)
    - EXCAVATED VOLUME
    - PIPE DISPLACED VOLUME
    - NATIVE BACKFILL
    - PIPE ZONE BACKFILL
    - BEDDING
- **ASPHALT PAVEMENT**
  - 6" BASE COURSE
  - 3" INTERMEDIATE COURSE
  - 2" SURFACE COURSE
- **CURB AND GUTTER**
  - 6" CURB
    - CURB AREA (0.75)

STORM
- **STORMLINE**
  - 10" C900 (PVMNT)
    2.83 X 6.30 VERTICAL TRENCH
    4" BEDDING #57 STONE
  - 12" C900 (PVMNT)
    3.00 X 6.30 VERTICAL TRENCH
    4" BEDDING #57 STONE
  - 15" C900 (PVMNT)
    3.25 X 6.30 VERTICAL TRENCH
    4" BEDDING #57 STONE
  - 18" C900 (PVMNT)

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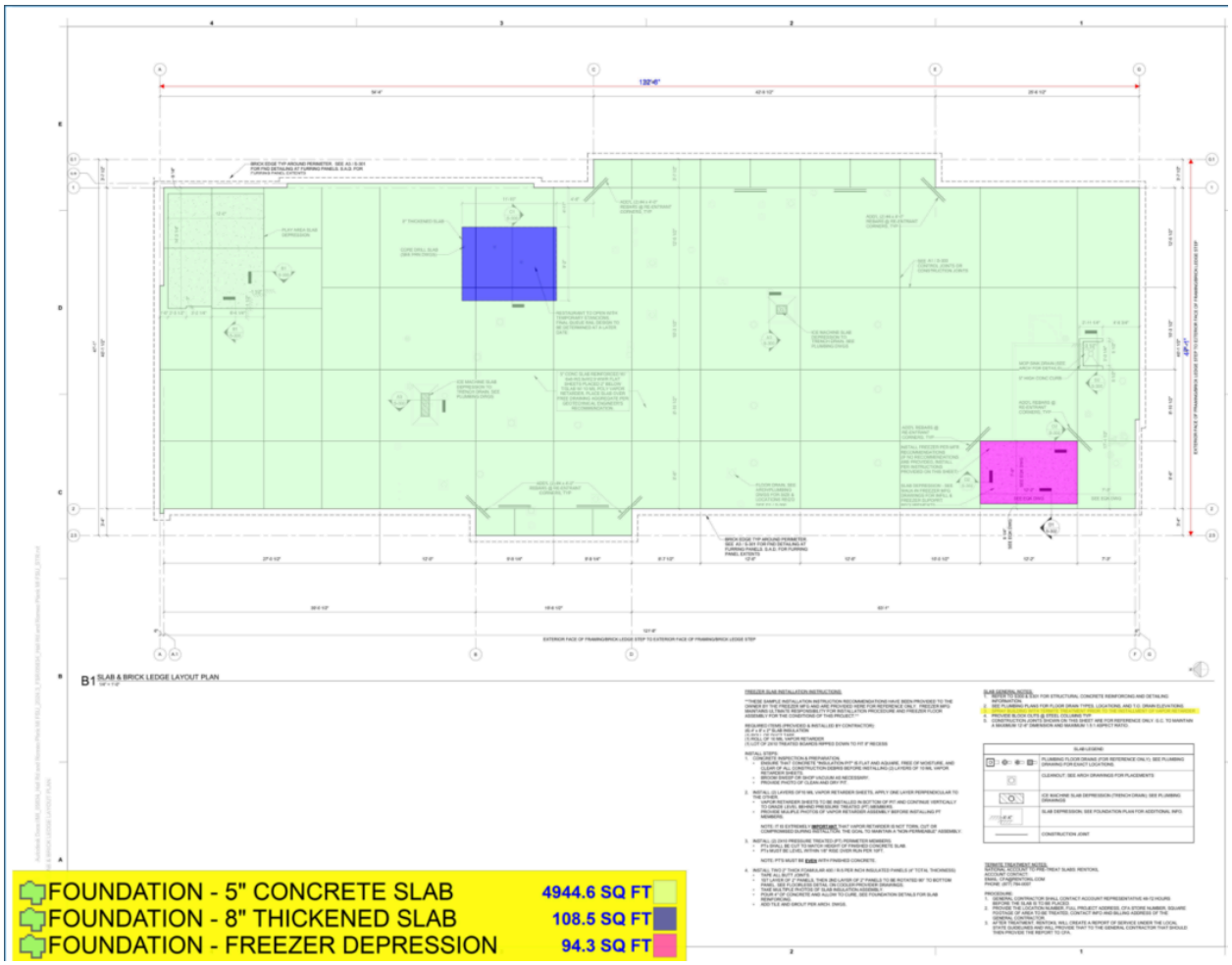
Concrete Takeoffs



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843-900-1002
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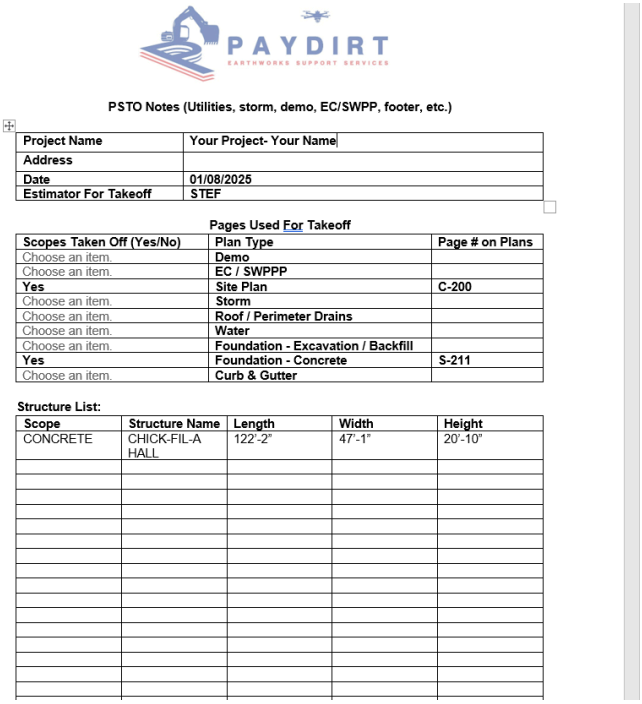
Concrete Takeoffs Cont.

Your Name & Project	Description	Qty	Units	Linear Total	Area	Color
CURB AND GUTTER						
C&G - SPILLING CURB & GUTTER	3000 PSI	1475.85	FT	1475.85	45583.51	
CONCRETE VOLUME	1.40 SQ FT	76.53	CU YD	1475.85	45583.51	
C&G - CATCHING CURB & GUTTER	3000 PSI	1187.47	FT	1187.47	7480.51	
CONCRETE VOLUME	1.40 SQ FT	61.57	CU YD	1187.47	7480.51	
BOLLARDS						
BOLLARDS - 2' CONCRETE BOLLARD / BOLLARD MOUNTED SIGN		8	EA	146.63	11.84	
CONCRETE VOLUME	2'-6" DEPTH (3000 PSI)	2.33	CU YD	146.63	11.84	
EXCAVATED VOLUME		2.33	CU YD	146.63	11.84	
REBAR	(6) #4 VERT	120	FT	146.63	11.84	
TIES	#3 TIE @ 18" O.C.	32	FT	146.63	11.84	
CONCRETE						
CONCRETE - 4" CONCRETE SIDEWALK		3596.84	SQ FT	1064.8	3596.84	
CONCRETE VOLUME	4" CONCRETE (3000 PSI)	44.41	CU YD	1064.8	3596.84	
GRANULAR BASE	4" 21AA AGGREGATE BASE COURSE	44.41	CU YD	1064.8	3596.84	
REBAR	6"x6"x6 GAUGE WELDED WIRE FABRIC SEATED AND SECURED ON STANDS	3596.84	SQ FT	1064.8	3596.84	
CONCRETE - GREASE TRAP PAD		132.54	SQ FT	47.24	132.54	
CONCRETE VOLUME	8" CONCRETE	3.29	CU YD	47.24	132.54	
BASE	4" 21AA	1.62	CU YD	47.24	132.54	
REINFORCEMENT	#4 BARS 12" OC + #4 BARS AROUND PERIMETER	270	FT	47.24	132.54	
CONCRETE - TRASH ENCLOSURE		309.3	SQ FT	103.05	309.3	
CONCRETE VOLUME	8" CONCRETE	8.88	CU YD	103.05	309.3	
BASE	4" 21AA	3.78	CU YD	103.05	309.3	
REINFORCEMENT	#4 BARS 12" OC + #4 BARS AROUND PERIMETER	270	FT	103.05	309.3	
CONCRETE - CONCRETE APRON AT TRASH ENCLOSURE		918.08	SQ FT	137.26	918.08	
CONCRETE VOLUME	8" CONCRETE	22.78	CU YD	137.26	918.08	
BASE	4" 21AA	11.22	CU YD	137.26	918.08	
REINFORCEMENT	#4 BARS 12" OC	1920	FT	137.26	918.08	
CONCRETE - CURB RAMP		87.5	SQ FT	39	87.5	
CONCRETE VOLUME	8" CONCRETE	2.17	CU YD	39	87.5	
BASE	4" 21AA	1.07	CU YD	39	87.5	
REINFORCEMENT	#4 BARS 12" OC + #4 BARS AROUND PERIMETER	156	FT	39	87.5	
CONCRETE - DRIVE THRU		9163.15	SQ FT	839.94	9163.15	
CONCRETE VOLUME	6" CONCRETE	169.69	CU YD	839.94	9163.15	
BASE	6" 21AA	169.69	CU YD	839.94	9163.15	
REINFORCEMENT	6"X6"X6" GAUGE WELDED WIRE FABRIC	9163.15	SQ FT	839.94	9163.15	

Concrete Takeoffs Cont.

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PSTO Notes (Utilities, storm, demo, EC/SWPP, footer, etc.)

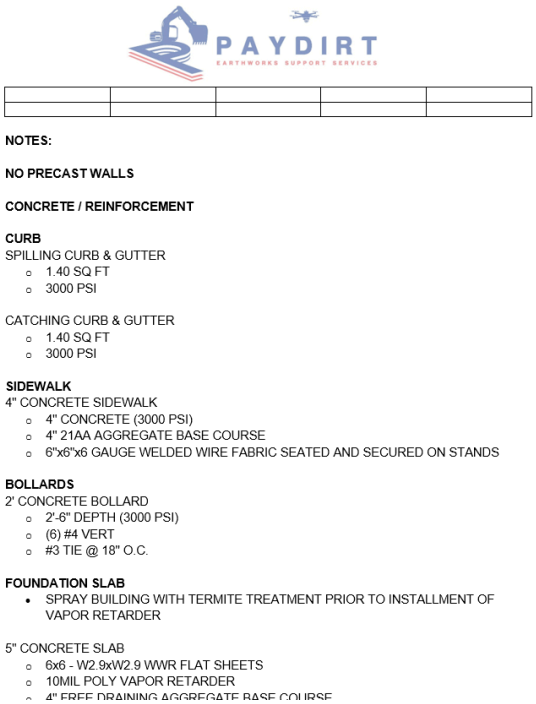
Project Name	**Your Project- Your Name**
Address	
Date	**01/08/2025**
Estimator For Takeoff	**STEF**

Pages Used For Takeoff

Scopes Taken Off (Yes/No)	Plan Type	Page # on Plans
Choose an item.	**Demo**	
Choose an item.	**EC / SWPPP**	
Yes	**Site Plan**	**C-200**
Choose an item.	**Storm**	
Choose an item.	**Roof / Perimeter Drains**	
Choose an item.	**Water**	
Choose an item.	**Foundation - Excavation / Backfill**	
Yes	**Foundation - Concrete**	**S-211**
Choose an item.	**Curb & Gutter**	

Structure List:

Scope	Structure Name	Length	Width	Height
CONCRETE	CHICK-FIL-A HALL	122'-2"	47'-1"	20'-10"



NOTES:

NO PRECAST WALLS

CONCRETE / REINFORCEMENT

CURB
SPILLING CURB & GUTTER
- 1.40 SQ FT
- 3000 PSI

CATCHING CURB & GUTTER
- 1.40 SQ FT
- 3000 PSI

SIDEWALK
4" CONCRETE SIDEWALK
- 4" CONCRETE (3000 PSI)
- 4" 21AA AGGREGATE BASE COURSE
- 6"x6"x6 GAUGE WELDED WIRE FABRIC SEATED AND SECURED ON STANDS

BOLLARDS
2' CONCRETE BOLLARD
- 2'-6" DEPTH (3000 PSI)
- (6) #4 VERT
- #3 TIE @ 18" O.C.

FOUNDATION SLAB
- SPRAY BUILDING WITH TERMITE TREATMENT PRIOR TO INSTALLMENT OF VAPOR RETARDER

5" CONCRETE SLAB
- 6x6 - W2.9xW2.9 WWR FLAT SHEETS
- 10MIL POLY VAPOR RETARDER
- 4" FREE DRAINING AGGREGATE BASE COURSE

Concrete Takeoffs Cont.

FREEZER DEPRESSION

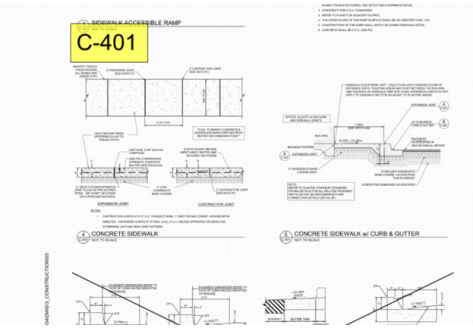
- 4" CONCRETE SLAB
- 4x4-W4xW4 WWF CENTERED IN SLAB

- 4" RIGID INSULATION FOR FREEZER SLAB
- (2) LAYERS 10 MIL VAPOR RETARDER PER FREEZER MFG U.N.O BY MFG

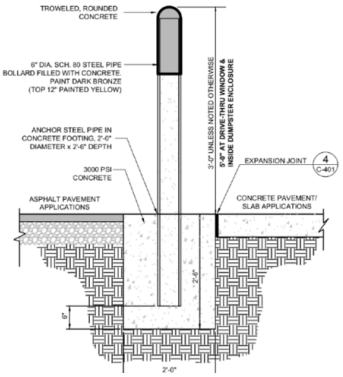
- 4" CONCRETE SLAB ON GRADE
- 10 MIL VAPOR RETARDER
- 4" AGGREGATE BASE COURSE (ASSUMED)

DETAILS:

CONCRETE SIDEWALK AND CURB & GUTTER DETAILS
PAGE: 05 - 05834 - C-401 - CFASTDDETAILS-C-401



CONCRETE BOLLARDS DETAILS
PAGE: 05 - 05834 - C-401 - CFASTDDETAILS-C-401



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Production Estimate & Bids

This is a sample of a production estimate. Here we will break down all of the work areas and provide an estimated man hours and machinery for your project. With this information all you have to do is add up your materials pricing and your labor pricing and put it into your bid form. The above takeoffs examples are also included with this.

Job Builder (both production estimate & bids) - this shows what equipment/labor was allocated, the amount of hours, and to which areas of work.

WORK AREA #	PRIMARY	Task	ADDITIONAL EQUIPMENT OR LABOR	EQUIPMENT BREAKDOWN	ADDITIONAL HOURS
1	**Demolition**	**Demolition of:**			
1		1,651 SF of Asphalt Pavement assumed w/ 3" of Asphalt to be 15 CYU and 8" of ODOT Type B Asphaltic Cement Concrete to be 40 CYU	CTL	CTL	10
1			Laborer	Laborer	10
1		374 LF of Vertical Curb assumed w/ 12" of Concrete to be 7 CYU and 8" of ODOT Type B Asphaltic Cement Concrete to be 5 CYU	Mid Exc. TB240	Mid Exc. TB240	10
1			Laborer	Laborer	10
1		111 SF of Trash Enclosure assumed w/ 8" of Concrete to be 3 CYU and 6" of Crushed Aggregate Base Rock to be 2 CYU	CTL	CTL	5
1			Laborer	Laborer	10
1			CTL	CTL	5
1		1.809 SF of Landscape	Laborer	Laborer	10
1		**Removal of:**			
1		(1) Bollard	Mini Exc. 315	Mini Exc. 315	2
1			Laborer	Laborer	2
1		(2) Signs	CTL	CTL	2
1			Laborer	Laborer	2
1		(1) Light	Mini Exc. 315	Mini Exc. 315	3
1			Laborer	Laborer	6
1		(1) '-2"x13'-7" Trash Enclosure		included above	
1		**A total of 2 CYU of Crushed Aggregate Base Rock, 15 CYU of Asphalt, 10 CYU of Concrete and 45 CYU of ODOT Type B Asphaltic Cement Concrete are to be exported from the site.**			

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Job Builder Cont.

3	Grading	Topsoil Strip of **11 CYU** at an assumed depth of 6"	CTL		30
3			Laborer		30
3		Topsoil replacement of **16 CYU** at an assumed depth of 6"			
3		Cut of **12 CYU**			
3		Fill of **19 CYU**			
3		**5 CYU of topsoil are to be imported**			
3		**7 CYU of excess soils from Utilities are to be re-used as fill.**			
3		**Priced w/ using existing earth on site for fill materials.**			
3		**No import/export included, refer to other line items for pricing.**			
3		**Includes Pond Excavation, Fine Grading, & GPS File**			
3		**No dewatering, excavation of rock, or unsuitable fill remediations included.**			
4	Import	**A total of 5 CYU of Topsoil are to be imported to fill the site to grade.**			
5	Export	**A total of 54 CYU of excess soils are to be exported from the site.**	CTL		5
5		54 CYU excess soils from Utilities are to exported from the site			
6	Pavement Preparation	**Installation and Preparation of the Following Areas (stone and grading only):**			
6		Asphalt Pavement of 1,178 SF w/ 8" of ODOT Type B Asphaltic Cement Concrete to be 59 tons	CTL		10
6			Laborer		20
6		Trash Enclosure of 322 SF w/ 6" of Crushed Aggregate Base Rock to be 12 tons	CTL		
6			Laborer		
6		Vertical Curb of 175 SF w/ 8" ODOT Type B Asphaltic Cement Concrete to be 8 tons	Mid Exc. TB240		5
6			Laborer		5
6			CTL		3
6			Laborer		10
6		Concrete Sidewalk of 53 SF w/ 4" of Compacted Aggregate Base Rock to be 2 tons	CTL		3
6			Laborer		10
6			CTL		3
6			Laborer		10
6		**A total of 67 tons of ODOT Type B Asphaltic Cement Concrete, 12 tons of Crushed Aggregate Base Rock, and 2 tons of Compacted Aggregate Base Rock are to be imported.**			
6		**No dewatering, excavation of rock, or unsuitable fill remediations included.**			

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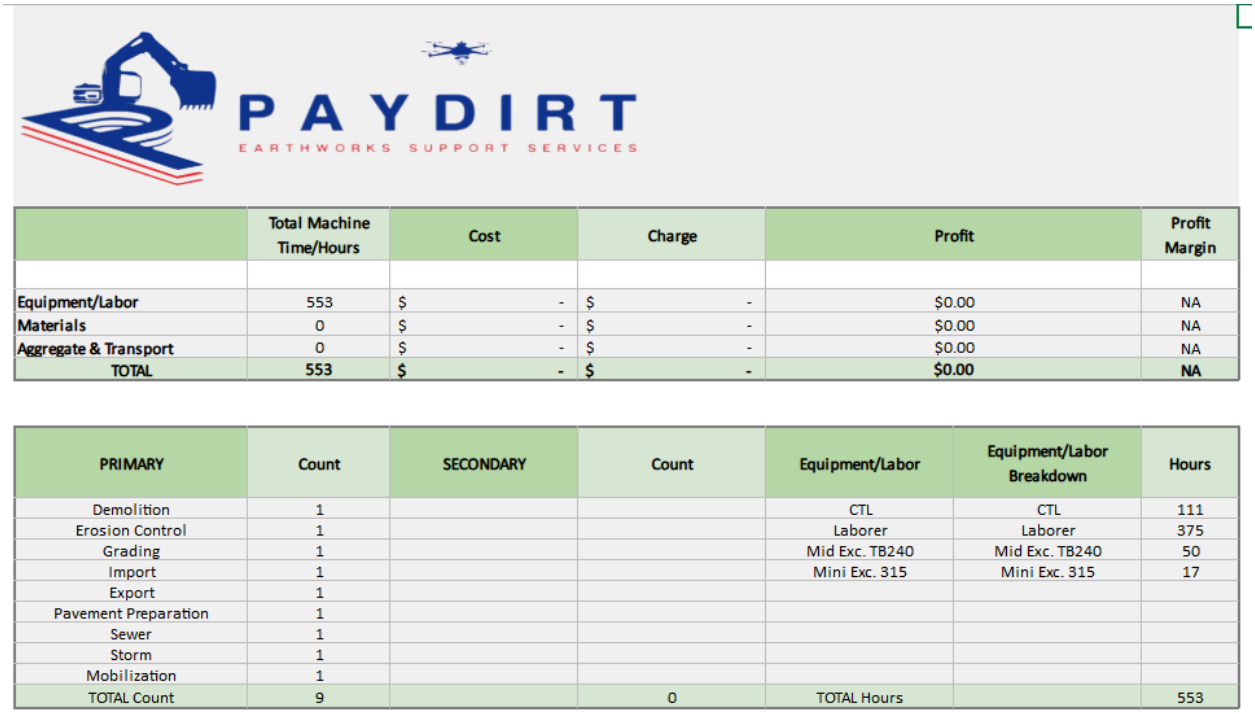
Aggregate Calculator (both production estimate & bid)

- This shows the CYU converted to tonnage with expansion and overage factors, with a complete bid proposal this will also have a price.

WORK AREA #	PRIMARY	Truck Type	Ton/CYU	Import or Export	Material Type	Material Cost	Banked CYU Amount	Expansion / Compaction Factor	Overage Factor	Banked CYU w/ Expansion	Banked CYU w/ Overage	Expanded CYU Amount	Tonnage Amount
1	Demolition		CYU	Export	Demo Asphalt	$ -	15	1.5	1.1	22.5	16.5	24.75	33.41
1	Demolition		CYU	Export	Demo ODOT Type B Asphaltic Cement Concrete	$ -	45	1.35	1.1	60.75	49.5	66.825	90.21
1	Demolition		CYU	Export	Demo Concrete	$ -	10	1.5	1.1	15	11	16.5	22.28
1	Demolition		CYU	Export	Demo Crushed Aggregate Base Rock	$ -	2	1.35	1.1	2.7	2.2	2.97	4.01
6	Pavement Preparation		Ton	Import	ODOT Type B Asphaltic Cement Concrete	$ -	33	1.35	1.1	44.55	36.3	49.005	66.16
6	Pavement Preparation		Ton	Import	Crushed Aggregate Base Rock	$ -	6	1.35	1.1	8.1	6.6	8.91	12.03
6	Pavement Preparation		Ton	Import	Compacted Aggregate Base Rock	$ -	1	1.35	1.1	1.35	1.1	1.485	2.00
7	Sewer		Ton	Import	57's	$ -	24	1.1	1.1	26.4	26.4	29.04	39.20
7	Sewer		Ton	Import	Select Fill	$ -	26	1.35	1.1	35.1	28.6	38.61	52.12
8	Storm		Ton	Import	57's	$ -	7	1.1	1.1	7.7	7.7	8.47	11.43
8	Storm		Ton	Import	Select Fill	$ -	4	1.35	1.1	5.4	4.4	5.94	8.02
4	Import		CYU	Import	Topsoil	$ -	5	1.2	1.05	6	5.25	6.3	8.51
5	Export		CYU	Export	Export Fill	$ -	54	1.2	1.05	64.8	56.7	68.04	91.85
									1				
									1				

Overall Breakdown (both production estimate & bid)

- This shows the production per scope, and the overall production for the project. With a complete bid proposal this will also show total costs, charges, and estimated profits.



	Total Machine Time/Hours	Cost	Charge	Profit	Profit Margin
Equipment/Labor	553	$ -	$ -	$0.00	NA
Materials	0	$ -	$ -	$0.00	NA
Aggregate & Transport	0	$ -	$ -	$0.00	NA
TOTAL	553	$ -	$ -	$0.00	NA

PRIMARY	Count	SECONDARY	Count	Equipment/Labor	Equipment/Labor Breakdown	Hours
Demolition	1			CTL	CTL	111
Erosion Control	1			Laborer	Laborer	375
Grading	1			Mid Exc. TB240	Mid Exc. TB240	50
Import	1			Mini Exc. 315	Mini Exc. 315	17
Export	1					
Pavement Preparation	1					
Sewer	1					
Storm	1					
Mobilization	1					
TOTAL Count	9		0	TOTAL Hours		553

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Overall Breakdown (both production estimate & bid) Cont.

Demolition					
1	Total Machine Time/Hours	Cost	Charge	Profit	Profit Margin
Equipment/Labor	87.0	$0.00	$0.00	$0.00	NA
Materials	NA	$0.00	$0.00	$0.00	NA
Aggregate & Transport	0.0	$0.00	$0.00	$0.00	NA
TOTAL	**87.0**	**$0.00**	**$0.00**	**$0.00**	NA

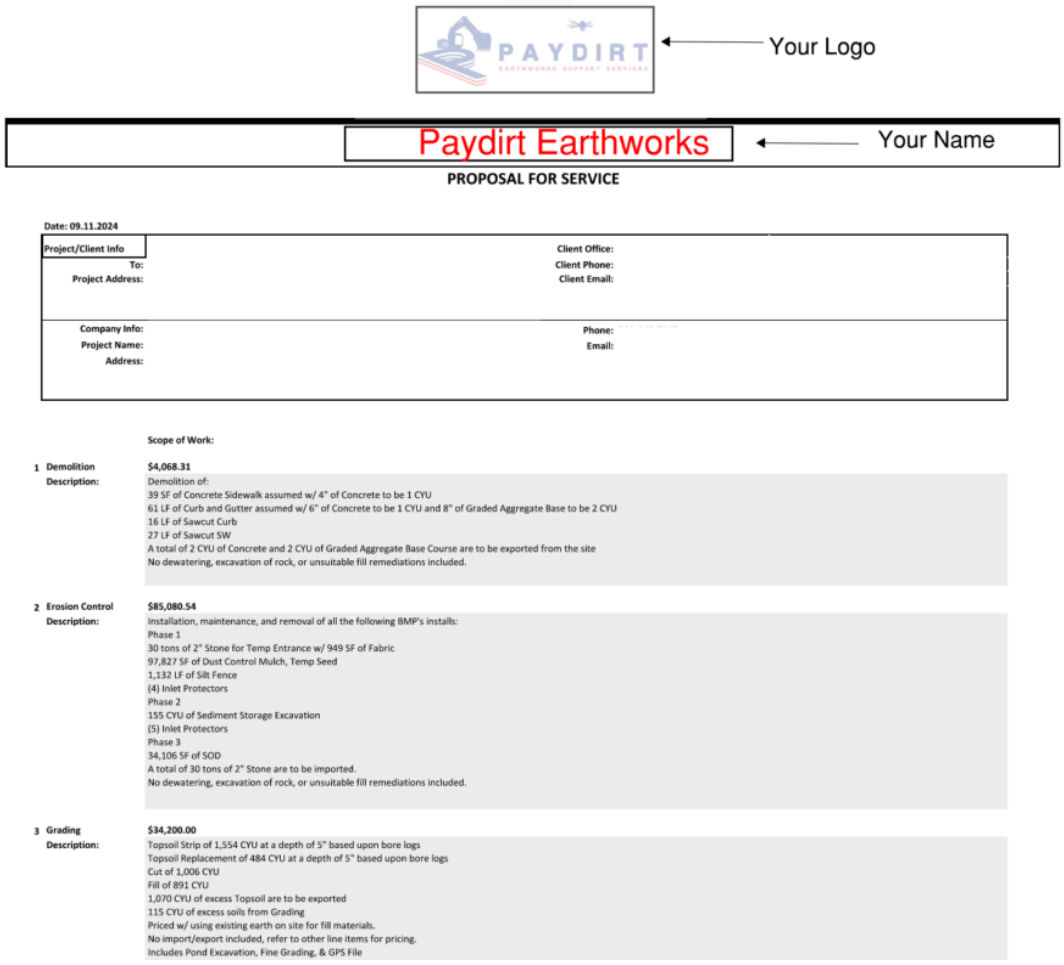
PRIMARY	Count	SECONDARY	Count	Equipment/Labor	Equipment/Labor Breakdown	Hours
Demolition	1					
				CTL	CTL	22
				Laborer	Laborer	50
				Mid Exc. TB240	Mid Exc. TB240	10
				Mini Exc. 315	Mini Exc. 315	5
TOTAL Count	1		0	TOTAL Hours		87

Sewer					
7	Total Machine Time/Hours	Cost	Charge	Profit	Profit Margin
Equipment/Labor	150.0	$0.00	$0.00	$0.00	NA
Materials	NA	$0.00	$0.00	$0.00	NA
Aggregate & Transport	0.0	$0.00	$0.00	$0.00	NA
TOTAL	**150.0**	**$0.00**	**$0.00**	**$0.00**	NA

PRIMARY	Count	SECONDARY	Count	Equipment/Labor	Equipment/Labor Breakdown	Hours
Sewer	1					
				Mid Exc. TB240	Mid Exc. TB240	20
				CTL	CTL	10
				Laborer	Laborer	120
TOTAL Count	1		0	TOTAL Hours		150

Bid Proposal (Bid Only)

This is a sample of our bid proposal. This is ready to send to your client with complete pricing, descriptions, and exclusions & qualifications.



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Bid Proposal (Bid Only) Cont.

Qualifications:

- Any concealed
incurred will be b
- All trimmings a
- COMPANY to m
arrangements.
- (1) Mobilizatio
- Anything not sp

Exclusions:

- Layout, permit
- Importation ar
- Rain/weather
- For drilling app
- Plumbing inspe
- No dewatering
- No stabilizatio
- No utility reloc
- No soil testing
- No compactio
- No benchmark
- Winter conditi
- Change orders
- Permits or per
- No hydrovac w
- No private utili
- Costs for const
- All above servi
- Any utilities m
relocation and st
become time an
- Not liable for c
- Any other wor

NOTE: This proposal may be withdrawn by us if not accepted within (30) days.

Authorized Signature: Date:_____

Paydirt Earthworks ← Your Name

Acceptance of Contract:
The above prices, specifications, and conditions are satisfactory and are hereby accepted as evidenced by my signature below and by my signature on the last page of the proposal. Payment will be made as outlined above.

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EZ View Examples

- The EZ View adds up all of the excess soils, converts all yardage to tonnage, and totals each type of pipe by size and type instead of being broken up how it is in the normal underground reports.

	Description	Units	UOM		
	Erosion/Sediment Control				
	SWPPP layout	1	EA		
	EC1 CHECK DAM RIP RAP	12	CU YD		
	EC1 CONSTRUCTION ENTRY 6" W_FABRIC	19	CU YD		
	EC1 INLET PROTECTION - BLOCK & GRAVEL	1	EA		
	EC1 INLET PROTECTION RIP RAP	5	CU YD		
	EC1 OUTLET PROTECTION RIP RAP	17	CU YD		
	EC1 SEDIMENT TUBE 12"	24	FT		
	EC1 SILT FENCE	1146	FT		
	EC1 TREE PROTECTION (SNOW FENCE)	49	FT		
	EC2 CHECK DAM RIP RAP	8	CU YD		
	EC2 OUTLET PROTECTION RIP RAP	22	CU YD		
	EC2 PIPE INLET PROTECTION RIP RAP	6	CU YD		
	EC2 SEDIMENT TUBE 12"	129	FT		
	EC2 SILT FENCE	495	FT		
	EC3 PERM SEED	94103	SQ FT		
	Rip Rap	70	CYU	115	Tons w/ Compaction and overage
	2" Stone	19	CYU	31	Tons w/ Compaction and overage
		SWPPP Total			

PAYDIRT
EARTHWORKS SUPPORT SERVICES

EZ View Examples Cont.

	Demolition & Earthwork					
	layout and GPS modeling	1	EA			
	mobilization and fees	1	EA			
DEMO	Asphalt - 3" asp.	374	CYU	710.6	Tonnage	
DEMO	Concrete - 1,605 SF sidewalk @ 4" & 3,280 SF C&G @ 6"	80	CYU	160	Tonnage	
DEMO	Stone	948	CYU	1727.73	Tonnage	
	DEMO BOLLARD	2	EA			
	DEMO CL FENCE	955	FT			
	DEMO CONCRETE STRUCTURE (NOT IDENTIFIED)	102	FT			
	DEMO CURB	126	CU YD	1,697	LF	
	DEMO ELECTRIC	354	CU YD	1,061	LF	
	DEMO HYDRANT AND VALVES	1	EA			
	DEMO LIGHT POLE	7	EA			
	DEMO PLUG TEE TO REMOVED HYDRANT	1	EA			
	DEMO SAWCUT PAVEMENT	105	FT			
	DEMO SIGN	5	EA			
	DEMO STORM	90	CU YD	202	LF	
	DEMO STORM STRUCTURE	1	EA			
	DEMO TREE	1	EA			
	DEMO WATER LINE	27	CU YD	60	LF	
	Topsoil Strip (to strata)	327	CYU	392	Expanded/Compacted CYU	1.2
	Topsoil Replacement	1704	CYU	2,045	Expanded/Compacted CYU	1.2
	Excess Cut From Underground Work	1215	CYU	1,458	Expanded/Compacted CYU	1.2
	Cut	2933	CYU	3,520	Expanded/Compacted CYU	1.2
	Fill	2429	CYU	2,915	Expanded/Compacted CYU	1.2
	Import			0	Expanded/Compacted CYU	1.2
	Export	1719	CYU	2,063	Expanded/Compacted CYU	1.2
	Topsoil Import	1377	CYU	1,652	Expanded/Compacted CYU	1.2
	Topsoil Export		CYU		Expanded/Compacted CYU	1.2
		Demo/Earthwork Total				

Paydirt Earthworks Support Services
office@paydirtsupport.com
843-900-1002
75 Aiken Street, Unit 100
Charleston, SC 29403

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EZ View Examples Cont.

	Site Drainage					
	6" SDR35	155	FT			
	8" PVC	50	FT			
	14"x23" Eliptical	135	FT			
	15" RCP	246	FT			
	18" RCP	303	FT			
	24" RCP	256	FT			
	BEVELED END SECTION 15"	1	EA			
	BEVELED END SECTION 24"	4	EA			
	DI	8	EA			
	MH	1	EA			
	STRUCTURE 18" HW	2	EA			
	STRUCTURE OCS	2	EA			
	STRUCTURER 24" HW	7	EA			
	YARD INLET	1	EA			
	6" CO	3	EA			
	Excavated Volume	483	CYU			
	Pipe Displacement	71	CYU			
	Bedding - 57's	69	CYU	102.465	Tons w/ Compaction	10%
	Bedding - CL2		CYU	0	Tons w/ Compaction	35%
	Backfill - 57's	210	CYU	311.85	Tons w/ Compaction	10%
	Backfill - CL2		CYU	0	Tons w/ Compaction	35%
	Backfill - SELECT	104	CYU	189.54	Tons w/ Compaction	35%
	Excess Soil	454	CYU			

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EZ View Examples Cont.

Paving					
layout	1	EA			
HD Asphalt (4" Asphalt, 8" Graded Aggregate Base)	29,311	SF			
SD Asphalt (2" Asphalt, 6" Graded Aggregate Base)	4,308	SF			
HD Concrete (7" Concrete, 5" Graded Aggregate Base)	660	SF			
Curb and Gutter (6" Concrete, 8" Graded Aggregate Base)	2,058	LF			
Gravel Parking w/ Geotextile Fabric (10" Graded Aggregate Base)	21,501	SF			
ABC	1,584	CYU	3175.524	Tons w/ Compaction and overage	35% + 10%
57's		CYU	0	Tons w/ Compaction and overage	0.1
Fill		CYU		CYU w/ compaction	0.2
	Paving Total				
Flatwork					
Dumpster Pad (7" Concrete, 5" Graded Aggregate Base)	400	SF			
Concrete Sidewalk (4" Concrete)	3,496	SF			
Building Slab (6" Concrete, 4" #57 Stone)	13,548	SF			
Equipment Pad (4" Concrete)	91	SF			
ADA Ramp (4" Concrete)	188	SF			
Mechanical Pad (8" Concrete)	776	SF			
ABC	7	CYU	14.03325	Tons w/ Compaction and overage	35% + 10%
57's	166	CYU	246.51	Tons w/ Compaction and overage	10%
Fill		CYU	0	CYU w/ compaction	20%
retaining walls and ramps not included	**Flatwork Total**				
	SUBTOTAL				**0**
	Bond 1.11%				**0**
	PROJECT TOTAL				**0**

Facility Sewer					
layout	1	EA			
as-built documents	1	EA			
8" SDR35	531	FT			
Cleanout	1	EA			
Structure MH	2	EA			
Excavated Volume	299	CYU			
Pipe Displacement	7	CYU			
Bedding - 57's	26	CYU	38.61	Tons w/ Compaction	10%
Bedding - CL2		CYU	0	Tons w/ Compaction	35%
Backfill - 57's	54	CYU	80.19	Tons w/ Compaction	10%
Backfill - CL2		CYU	0	Tons w/ Compaction	35%
Backfill - SELECT	70	CYU	127.575	Tons w/ Compaction	135%
Excess Soil	157	CYU			
	Sewer Total				

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EZ View Examples Cont.

Facility Water					
as-built / valve cards / easement plat	1	EA			
testing and chlorination	1	EA			
1.5" Waterline	160	FT			
4" Waterline	327	FT			
8" Waterline	614	FT			
12" Waterline	1,192	FT			
4" 45	3	EA			
4X4X8 TEE	1	EA			
8" 45 WITH THRUST BLOCK & RESTAINT	3	EA			
8" 90 WITH THRUST BLOCK & RESTRAINT	3	EA			
8X8X8 TEE	2	EA			
12" GV	1	EA			
12X10 REDUCER	1	EA			
FIRE HYDRANT ASSEMBLY	2	EA			
FIRE VAULT DBL DETECTOT CHECK	1	EA			
JACK & BORE 12" CASING	31	FT			
METER AND BFP	1	EA			
PIV	2	EA			
10" EX WITH 12" TAPPING SLEEVE	1	EA			
Excavated Volume	933	CYU			
Pipe Displacement	40	CYU			
Bedding - 57's	117	CYU	173.745	Tons w/ Compaction	10%
Bedding - CL2		CYU	0	Tons w/ Compaction	35%
Backfill - 57's	251	CYU	372.735	Tons w/ Compaction	10%
Backfill - CL2		CYU	0	Tons w/ Compaction	35%
Backfill - SELECT	196	CYU	357.21	Tons w/ Compaction	35%
Excess Soil	604	CYU			
	Water Total				