

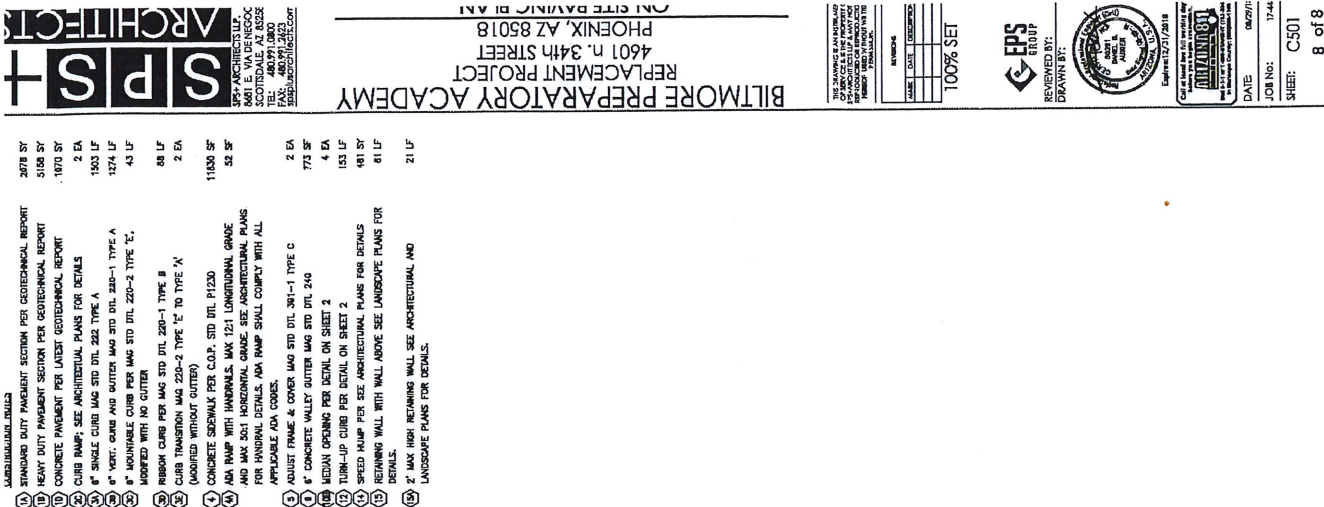
ESTIMATE DATE: January 17, 2019

PROJECT: **Biltmore Preparatory Academy Adjacent Ways**

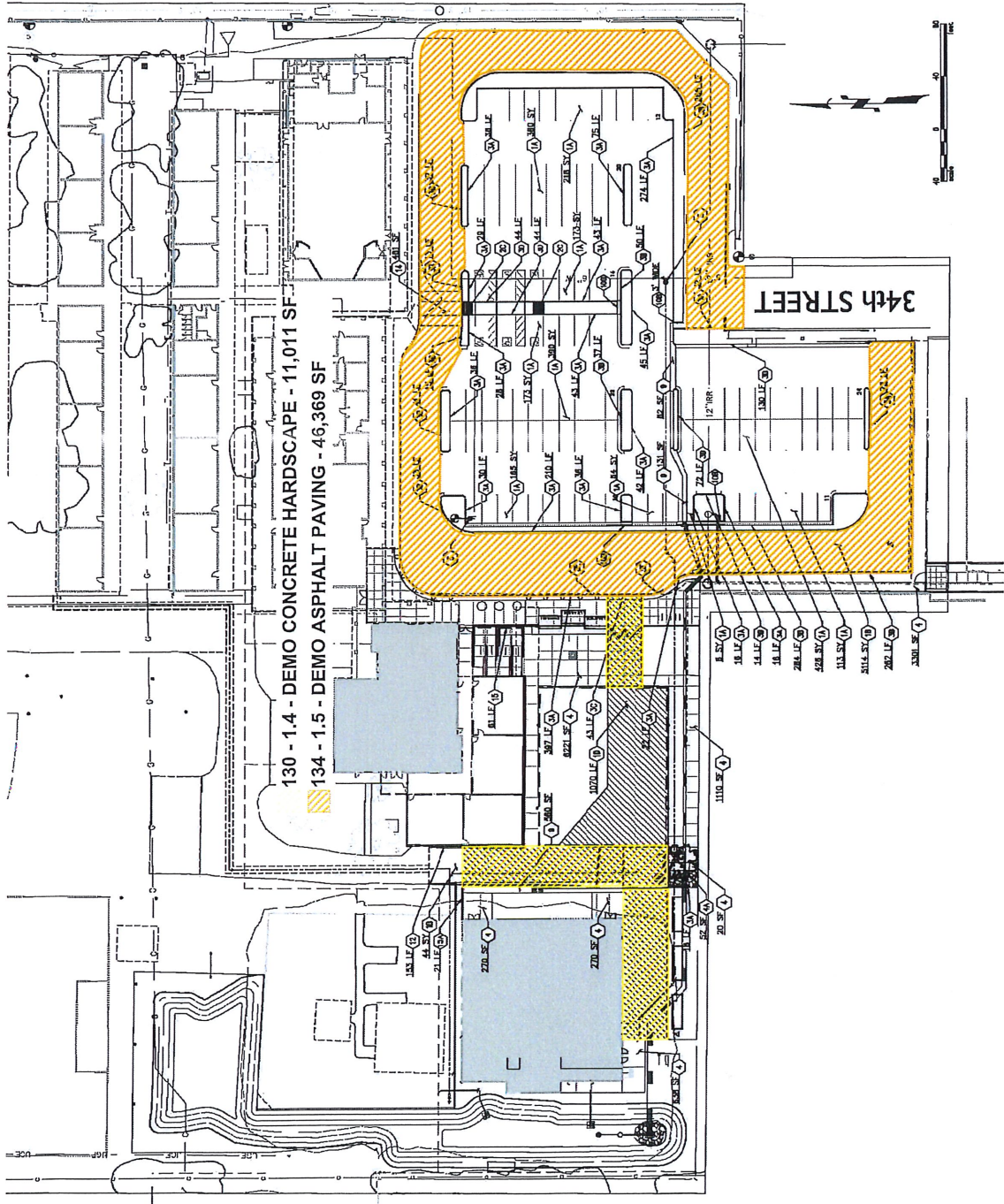
DIV	DESCRIPTION	ADJACENT WAYS
1A	Survey and Layout	8,933
2A	Demolition	24,777
3A	Concrete	72,927
26A	Electrical	22,215
31A	Earthwork	136,007
32A	Fencing	19,900
	Project Requirements	8,766
	General Conditions	35,293
	Construction Contingency (2.50%)	9,850
	City Review Contingency (1.00%)	3,940
	Testing & Special Inspections Allowance	By Owner
	Architectural & Engineering Fees	By Owner
	Utilities (Design, Construction, & Usage Fees)	By Owner
	Permits & Development Impact Fees	By Owner
	G/L Insurance	3,940
	Builders Risk Insurance	1,379
	Performance & Payment Bond	4,334
	Contractors Fee	19,699
	Gross Receipts Tax	22,024
TOTAL CONSTRUCTION COSTS:		393,982

PROJECT: **Biltmore Preparatory Academy Adjacent Ways**
 REV DATE: January 17, 2019

DIV	DESCRIPTION	TOTAL QUANTITY	UNIT	TOTAL COST
1A	Survey and Layout			
	SURVEY	59,955	SF	8,933
	Subtotal Survey and Layout			8,933
2A	Demolition			
	DEMO ASPHALT PAVEMENT	46,369	SF	11,592
	DEMO CONCRETE HARDSCAPE	11,011	SF	13,185
	Subtotal Demolition			24,777
3A	Concrete			
	CURB AND GUTTER	791	LF	13,328
	VERTICAL CURB	989	LF	14,578
	VALLEY GUTTER 6'	95	SF	2,850
	SPEED HUMP	1	LS	3,697
	PCCP PAVING	5,919	SF	38,474
	Subtotal Concrete			72,927
26A	Electrical			
	BORE THROUGH ASPHALT PARKING LOT FOR SRP	340	LF	10,710
	(3) 3" HDPE CONDUITS FOR SRP	1,911	LF	5,733
	POT HOLE EXISTING UTILITIES FOR SRP	1	LS	1,875
	TRENCHING FOR SRP	298	LF	3,897
	Subtotal Electrical			22,215
31A	Earthwork			
	MASS GRADING	6,360	sy	21,506
	ASPHALT PAVING - HEAVY DUTY	5,026	sy	114,502
	Subtotal Earthwork			136,007
32A	Fencing			
	20' VEHICULAR SWING GATE	1	EA	3,900
	24' VEHICULAR SWING GATE	1	EA	6,000
	40' VEHICULAR SLIDE GATE	1	EA	10,000
	Subtotal Fencing			19,900



1. STANDARD DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT
2. HEAVY DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT
3. CONCRETE PAVEMENT PER LATEST GEOTECHNICAL REPORT
4. CURB RAMP - SEE ARCHITECTURAL PLANS FOR DETAILS
5. 6" SINGLE CURB MAG STD DTL 223 TYPE A
6. 8" VERT. CURB AND GUTTER MAG STD DTL 223-1 TYPE A
7. 8" ADJUSTABLE CURB PER MAG STD DTL 220-2 TYPE 'E',
MODIFIED WITH NO GUTTER
8. 24" RIBBON CURB PER MAG STD DTL 229-1 TYPE 'B'
9. CURB TRANSITION MAG 220-2 TYPE 'E' TO TYPE 'A'
(MODIFIED WITHOUT GUTTER)
10. CONCRETE SIDEWALK PER C.O.P. STD DTL P1220
AND MAX 50:1 HORIZONTAL GRADE. SEE ARCHITECTURAL PLANS
FOR RAMP DETAILS. RAMP SHALL COMPLY WITH ALL
APPLICABLE ADA CODES.
11. ADJUST FRAME & COVER MAG STD DTL 381-1 TYPE C
12. 6" CONCRETE VALLEY GUTTER MAG STD DTL 240
13. MEDIAN OPENING PER DETAIL ON SHEET 2
14. TURN-UP CURB PER DETAIL ON SHEET 2
15. SPEED HUMP PER SEE ARCHITECTURAL PLANS FOR DETAILS
16. RETAINING WALL WITH WALL ABOVE SEE LANDSCAPE PLANS FOR
DETAILS.
17. 2' MAX HIGH RETAINING WALL SEE ARCHITECTURAL AND
LANDSCAPE PLANS FOR DETAILS.



27 - PCCP - 36" SF
41 - Spillway - 50" SF
54 - Vertical Curb - 8" SF
55 - Curb & Gutter - 7" SF

17-448 BILTMORE PREPARATORY ACADEMY

Oct 18, 2018 5:41pm S:\Projects\2017\17-448\Bil\Construction Documents\Grading and Drainage Plans\17-448 - C501.dwg

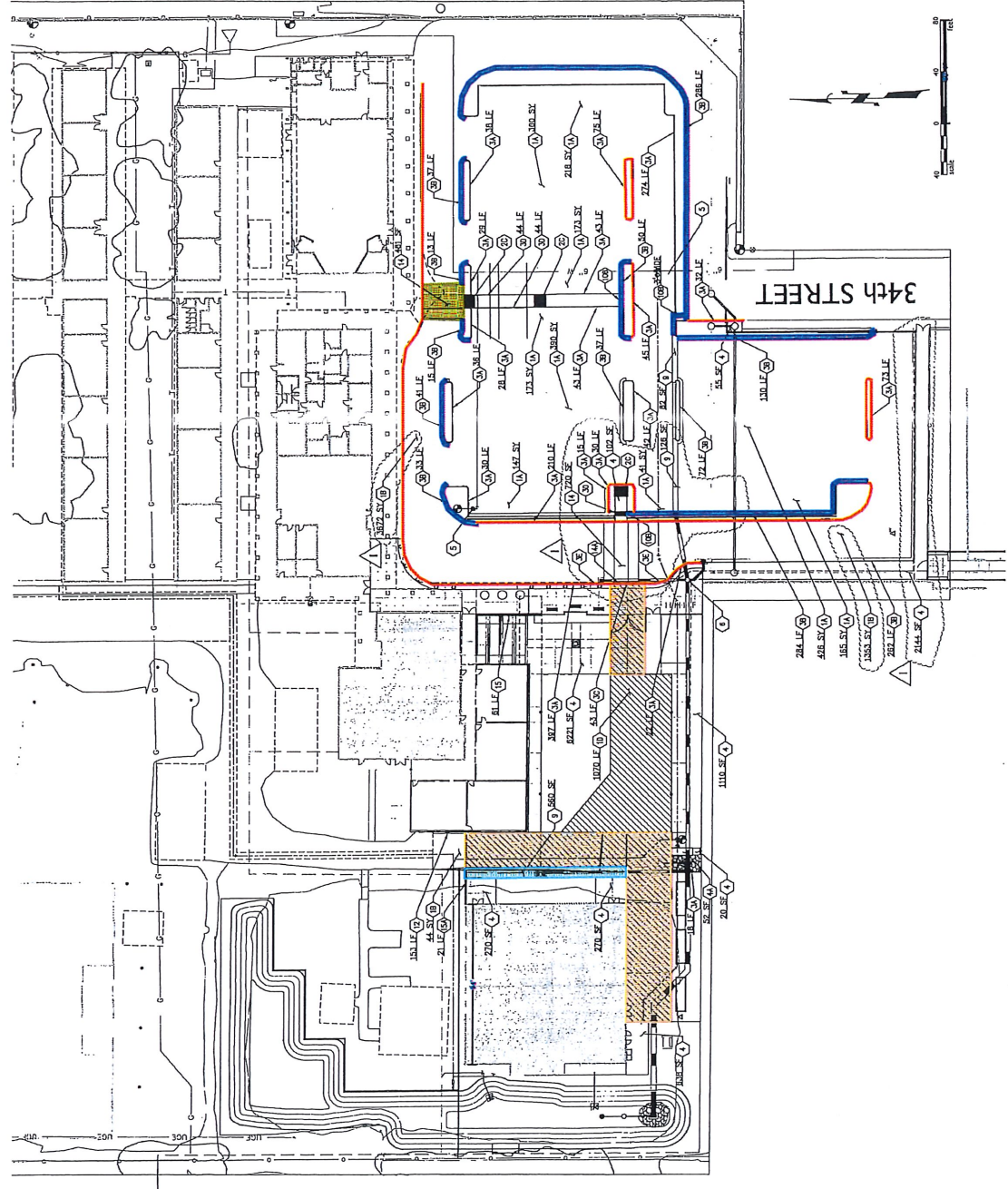
15/11/2018

SPS+ ARCHITECTS

979 ARCHITECT LLP
1000 SCOTTSDALE AVENUE
SCOTTSDALE, AZ 85258
TEL: 480.991.0000
WWW.SPSARCHITECTS.COM

BILTMORE PREPARATORY ACADEMY
REPLACEMENT PROJECT
4601 N. 34TH STREET
PHOENIX, AZ 85018
ON-SITE PAVING PLAN

- CONSTRUCTION NOTES**
- 1. STANDARD DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT
 - 2. HEAVY DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT
 - 3. CONCRETE PAVEMENT PER LATEST GEOTECHNICAL REPORT
 - 4. CURE RAMP: SEE ARCHITECTURAL PLANS FOR DETAILS
 - 5. 8" VERT. CURB MAG STD DTL 222 TYPE A
 - 6. 8" MOUNTABLE CURB PER MAG STD DTL 220-2 TYPE 'E', MODIFIED WITH NO CUTTER
 - 7. REBORN CURB PER MAG STD DTL 220-2 TYPE 'E' TO TYPE 'M' (MODIFIED WITHOUT CUTTER)
 - 8. CONCRETE SIDEWALK PER CO.P. STD DTL P1230
 - 9. ADA RAMP WITH HANDRAILS, MAX 12% LONGITUDINAL GRADE AND MAX 50% HORIZONTAL GRADE. SEE ARCHITECTURAL PLANS FOR DETAILS. ADA RAMP SHALL COMPLY WITH ALL APPLICABLE ADA CODES.
 - 10. 6" CONCRETE VALLEY GUTTER MAG STD DTL 422
 - 11. 6" CONCRETE VALLEY GUTTER MAG STD DTL 420
 - 12. TURN-UP CURB PER DETAIL ON SHEET 2
 - 13. SPEED HUMP PER SEE ARCHITECTURAL PLANS FOR DETAILS
 - 14. 6" CONCRETE VALLEY GUTTER MAG STD DTL 420 TO BE A POURED MONOLITHICALLY
 - 15. RETAINING WALL WITH WALL ABOVE SEE LANDSCAPE PLANS FOR DETAILS.
 - 16. 2' MAX HIGH RETAINING WALL SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR DETAILS
 - 17. SCUPPER MAG 204, WITH TO MATCH MEDIAN OPENING WIDTH (1:2)



DELTA 2 SET

REVIEWED BY:
DRAWN BY:



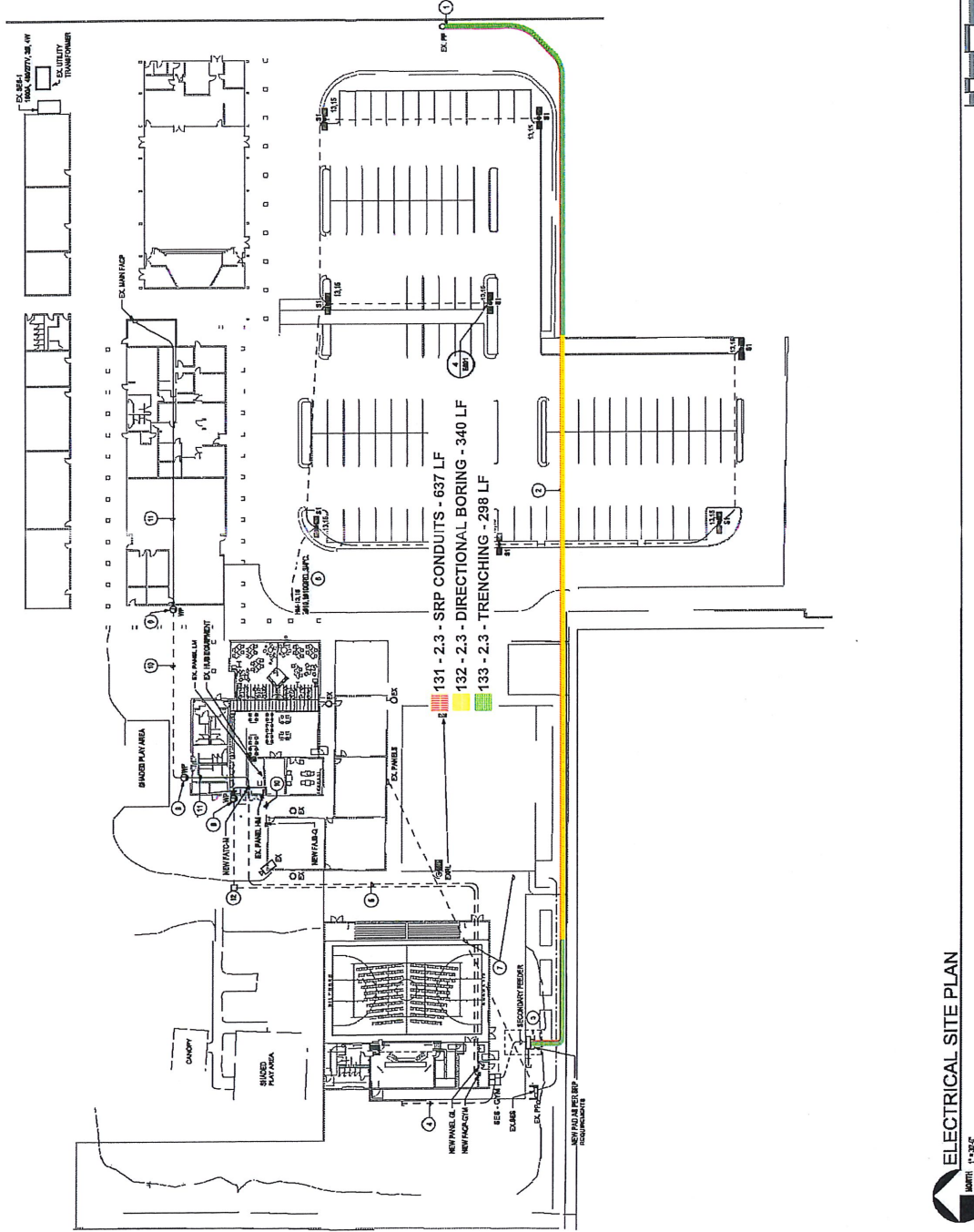
DATE: 10/25/18
JOB NO: 17-448
SHEET: C501
8 of 8

KEYED NOTES (Ⓢ)

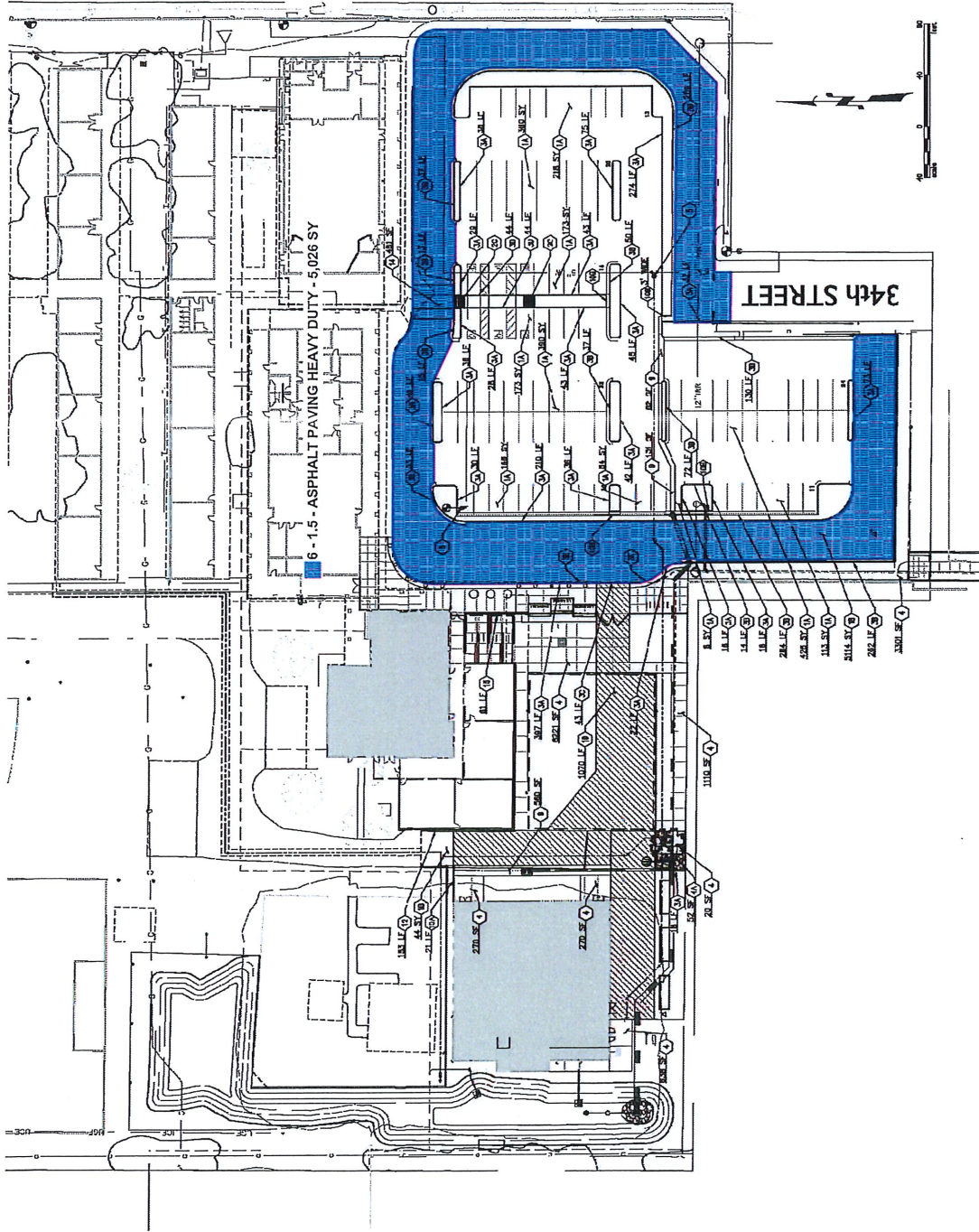
- [illegible]

SHEET NOTES

- A. BUILDING MOUNTED LIGHTING FOR THE CLASSROOM BUILDING AND GYMNASIUM ARE INDICATED ON SHEETS E301 AND E302.



- CONSTRUCTION NOTES**
- STANDARD DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT
 - HEAVY DUTY PAVEMENT SECTION PER GEOTECHNICAL REPORT
 - CONCRETE PAVEMENT PER LATEST GEOTECHNICAL REPORT
 - CURB RAMP; SEE ARCHITECTURAL PLANS FOR DETAILS
 - 8" VERT. CURB MAG STD DTL 222 TYPE A
 - 8" ADJUSTABLE CURB PER MAG STD DTL 220-2 TYPE "C", MODIFIED WITH NO CUTTER
 - 8" RIBBON CURB PER MAG STD DTL 220-1 TYPE "B" (MODIFIED WITH-OUT CUTTER)
 - CURB TRANSITION MAG STD DTL 220-1 TYPE "B"
 - CONCRETE SIDEWALK PER C.O.P. STD DTL P1230
 - ADA RAMP WITH HANDRAILS, MAX 12% LONGITUDINAL GRADE AND MAX 5% HORIZONTAL GRADE. SEE ARCHITECTURAL PLANS FOR HANDRAIL DETAILS. ADA RAMP SHALL COMPLY WITH ALL APPLICABLE ADA CODES.
 - ADJUST FRAME & COVER MAG STD DTL 301-1 TYPE "C"
 - CONCRETE VALLEY GUTTER MAG STD DTL 240
 - MEDIAN OPENING PER DETAIL ON SHEET 2
 - TURN-UP CURB PER DETAIL ON SHEET 2
 - SPREAD RAMP PER SEE ARCHITECTURAL PLANS FOR DETAILS
 - RETAINING WALL WITH WALL ABOVE SEE LANDSCAPE PLANS FOR DETAILS
 - 2" MAX HIGH RETAINING WALL SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR DETAILS.

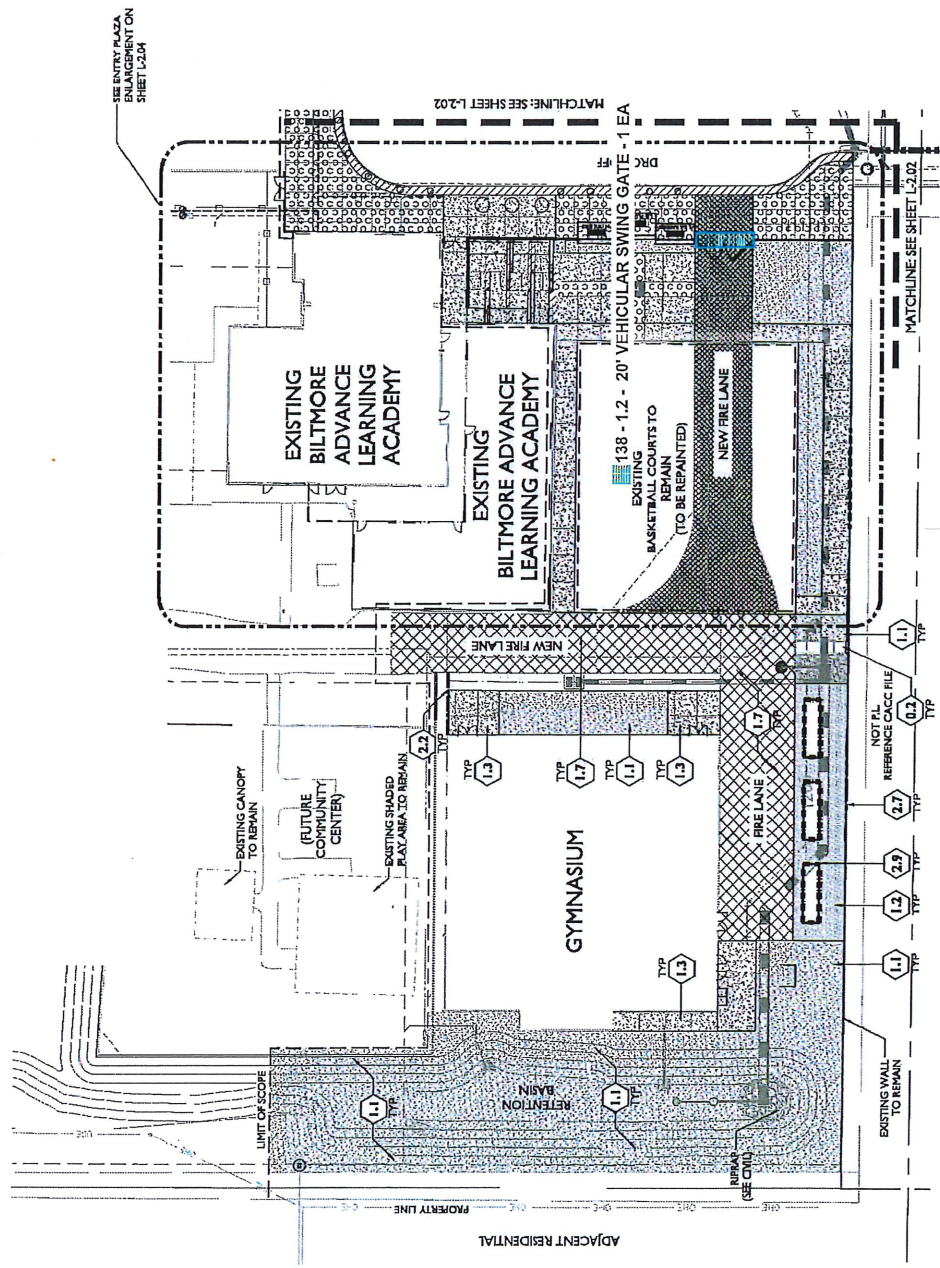


SYMBOL	ITEM
0.1	EXISTING CHAIN LINK FENCE TO REMAIN
0.2	EXISTING WIRE MESH FENCE TO REMAIN
0.3	EXISTING WIRE MESH FENCE TO REMAIN
0.4	EXISTING WIRE MESH FENCE TO REMAIN
0.5	EXISTING SITE CONDITION TO REMAIN
1.0	PAVEMENTS
1.1	DECOMPOSED GRANITE
1.2	STABILIZED DECOMPOSED GRANITE
1.3	STANDARD CONCRETE PAVING TYPE A
1.4	STANDARD CONCRETE PAVING TYPE B
1.5	DECORATIVE CONCRETE PAVING TYPE C
1.6	DECORATIVE CONCRETE PAVING TYPE D
1.7	VEHICULAR CONCRETE PAVING TYPE E
2.0	WALLS / EMBANKMENTS
2.1	NOT USED
2.2	RETAINING WALL WITH 3/4" HANDRAIL
2.3	RETAINING WALL WITH 8" WIRE MESH FENCE
2.4	8" WIRE MESH FENCE
2.5	NOT USED
2.6	CHAIN LINK FENCE
2.7	SHIELD PLANTER ON EXISTING WALL
2.8	20" VEHICULAR SWING GATE
2.9	20" RAISED PLANTER WALL
2.10	20" VEHICULAR SLIDING GATE
2.11	40" VEHICULAR SLIDING GATE
2.12	NOT USED
2.13	NOT USED
2.14	NOT USED
3.0	PLANTING AND LANDSCAPE
3.1	PLANTING
3.2	SHRUB PLANTING
3.3	GROUND COVER PLANTING
3.4	NOT USED
3.5	NOT USED
3.6	ACCENT PLANTING
4.0	MISCELLANEOUS ELEMENTS
4.1	IMPERVIOUS LEARNING SHADE PANEL
4.2	CHARCBOARD PAINT ON EXISTING WALL
4.3	NOT USED
4.4	NOT USED
4.5	COMMUNICATIONS PLAZA APPR/HEATER
4.6	NOT USED
4.7	EXISTING BASKETBALL COURT
4.8	EXISTING BASKETBALL COURT
4.9	BIKE RACK
4.10	BOLLARDS
4.11	DECORATIVE SPHERE BENCH
4.12	TREE GRATE

SYMBOL	ITEM
0.1	8" DECORATIVE WIRE MESH FENCE W/ RETAINING
0.2	8" DECORATIVE WIRE MESH FENCE
0.3	4" CHAIN LINK FENCE
1.0	CHALCBOARD PAINT ON EXISTING WALL
1.1	SHIELD PLANTER ON EXISTING WALL
1.2	20" CHU RAISED PLANTER WALL
1.3	RETAINING WALL WITH 3/4" DECO HANDRAIL

ID	NAME (SERIES)	SIZE (H x W x L)	COLOR
L1	Landscaping Block ANOVA (Espalation)	Per Manufacturer Spec.	Tan/Red
BK	ANOVA (Circle Paver Guard Rail Risk)	Per Manufacturer Spec.	Tan/Red
BL	Donor (Rubble 602 Grand Stone)	Per Manufacturer Spec.	Tan/Red
DB	Decorative Sphere Bench Koral (Plays Lin Stone)	Per Manufacturer Spec.	Warm Red
TG	Tree Grate Urban Accoutrements (Perforations)	5' x 5' SQ	Red

GENERAL NOTE:
Location of all site furnishings to be determined in the field by Landscape Architect. Refer to the above schedule for sizes, type, quantities and color details for installation information.



MATERIALS LEGEND

SYMBOL	ITEM	SIZE
0.1	"Express Brown" Decomposed Granite on Topsoil	5/8" Screened 2" Depth, 10% 1/4" Fines
0.2	Stabilized "Express Brown" Decomposed Granite on Equal Depth	4" Compacted Depth
0.3	Standard Concrete Paving	
0.4	Type B - Standard Concrete Paving with Salt Finish	
0.5	Type C - Exposed Aggregate Concrete Paving	
0.6	Type D - Vehicular Concrete Paving	

MATERIALS FINISH SCHEDULE

CONCRETE FINISHES	
<u>TYPE A</u>	Natural Grey with a light broom finish. Submit sample to Landscape Architect.
<u>TYPE B</u>	Natural Grey with salt finish. Submit sample to Landscape Architect.
<u>TYPE C</u>	Natural Grey with exposed aggregate finish. Submit sample to Landscape Architect.
<u>TYPE D</u>	Natural Grey with a light broom finish. Submit sample to Landscape Architect.

GENERAL NOTES:

1. Location of all site furnishings to be determined in this field by Landscape Architect. Refer to the above schedule for sizes, types, quantities and color of furnishings. Refer to Landscape Plan for general location and landscape details for installation information.



2.1	NOT USED	L-3.021.2
2.2	RETAINING WALL WITH 3" HANDRAIL	L-3.021.4
2.3	RETAINING WALL WITH 6" WIRE MESH FENCE	L-3.024.6
2.4	6" WIRE MESH FENCE	L-3.027.5
2.5	4" CHAIN LINK FENCE	L-3.027.4
2.6	SHELF PLANTER ON EXISTING WALL	L-3.035.6
2.7	20" VEHICULAR SWING GATE	L-3.044
2.8	20" RASSED PLANTER WALL	L-3.043
2.9	20" VEHICULAR SLIDING GATE	L-3.042
2.10	24" VEHICULAR SLIDING GATE	L-3.042
2.11	24" VEHICULAR SLIDING GATE	L-3.042
2.12	24" VEHICULAR SLIDING GATE	L-3.042

3.1	TREE PLANTING	L-5.0/11.2
3.2	SHRUB PLANTING	L-5.0/3
3.3	GROUND COVER PLANTING	L-5.0/4
3.4	NOT USED	
3.5	VEGETABLE PLANTING	L-5.0/16
3.6	ACCENT PLANTING	L-5.0/16

5.3	NOT USED		
5.4	NOT USED		
5.5	COMMUNICATIONS PLAZA AMPHITHEATER		
5.6	NOT USED		
5.7	EXISTING BASKETBALL COURT		TO BE REPAIRED
5.8	LANDSCAPE BENCH		SEE SCHEDULE
5.9	BIKE RACK		SEE SCHEDULE
5.10	BOLLARDS		SEE SCHEDULE
5.11	DECORATIVE SPHERE BENCH		SEE SCHEDULE
5.12	TREE GRATE		SEE SCHEDULE

MATERIALS LEGEND

SYMBOL	ITEM	SIZE
	"Type A" Randomly Dispersed Gravel on Equal	5/8" Screened Gravel, Min. 2" Depth, Min. 1 1/4" Holes
	Standard Concrete Paving	4" Compacted Gravel on Equal
	Standard Concrete Paving	4" Compacted Gravel on Equal
	Type B - Standard Concrete Paving with Salt Finish	
	Type C - Exposed Aggregate Concrete Paving	
	Type D - Vehicular Concrete Paving	

MATERIALS FINISH SCHEDULE

CONCRETE FINISHES

TYPE A	TYPE B	TYPE C	TYPE D
Natural Gray with a light brown finish. Subnet sample to Landscape Architect.	Natural Gray with salt finish. Subnet sample to Landscape Architect.	Natural Gray with exposed aggregate finish. Subnet sample to Landscape Architect.	Natural Gray with a light brown finish. Subnet sample to Landscape Architect.

Figure 1: Schematic diagram of the experimental setup. A subject is shown in a seated position, viewing a screen. The screen displays a target (a small blue dot) and a starting point (a small red dot). The subject's hand is positioned at the starting point. The screen is labeled 'Screen' and the subject is labeled 'Subject'.

OFF QU
LINE
DENTAL

PROPERTY LINE