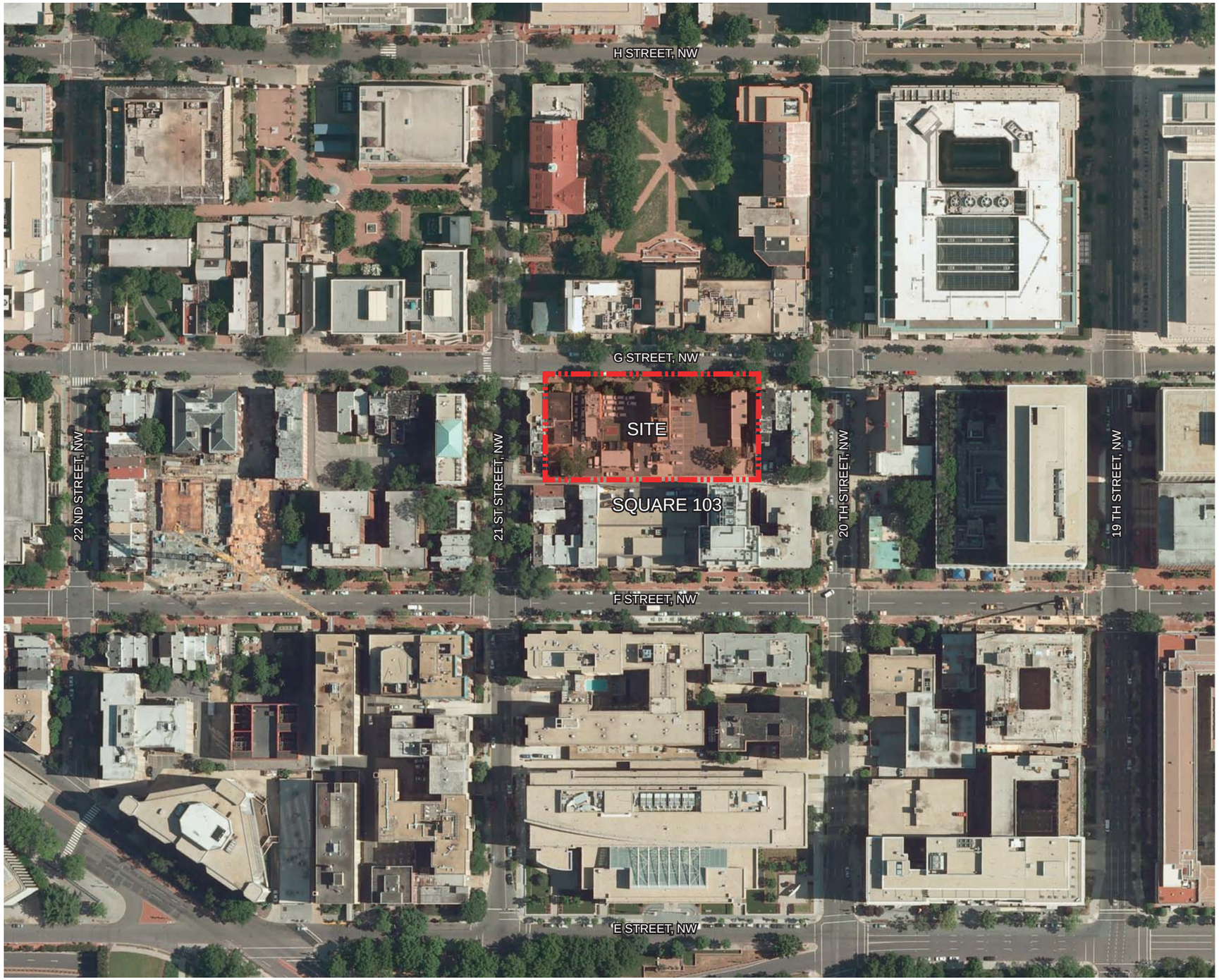
The George Washington University
Square 103 - Phase 1 Design
Garage Base Building

FOGGY BOTTOM CAMPUS PLAN PUD
SECOND STAGE APPROVAL

AUGUST 16, 2010

OWNER / DEVELOPER:	THE GEORGE WASHINGTON UNIVERSITY
ARCHITECT:	PERKINS + WILL; SHALOM BARANES ASSOCIATES
LAND USE COUNSEL:	GOULSTON & STORRS
CIVIL ENGINEER:	WILES MENSCH CORPORATION-DC
LANDSCAPE ARCHITECT:	OCULUS

DRAWING INDEX



AERIAL PHOTOGRAPH

AP1

AERIAL VIEW LOOKING SOUTH

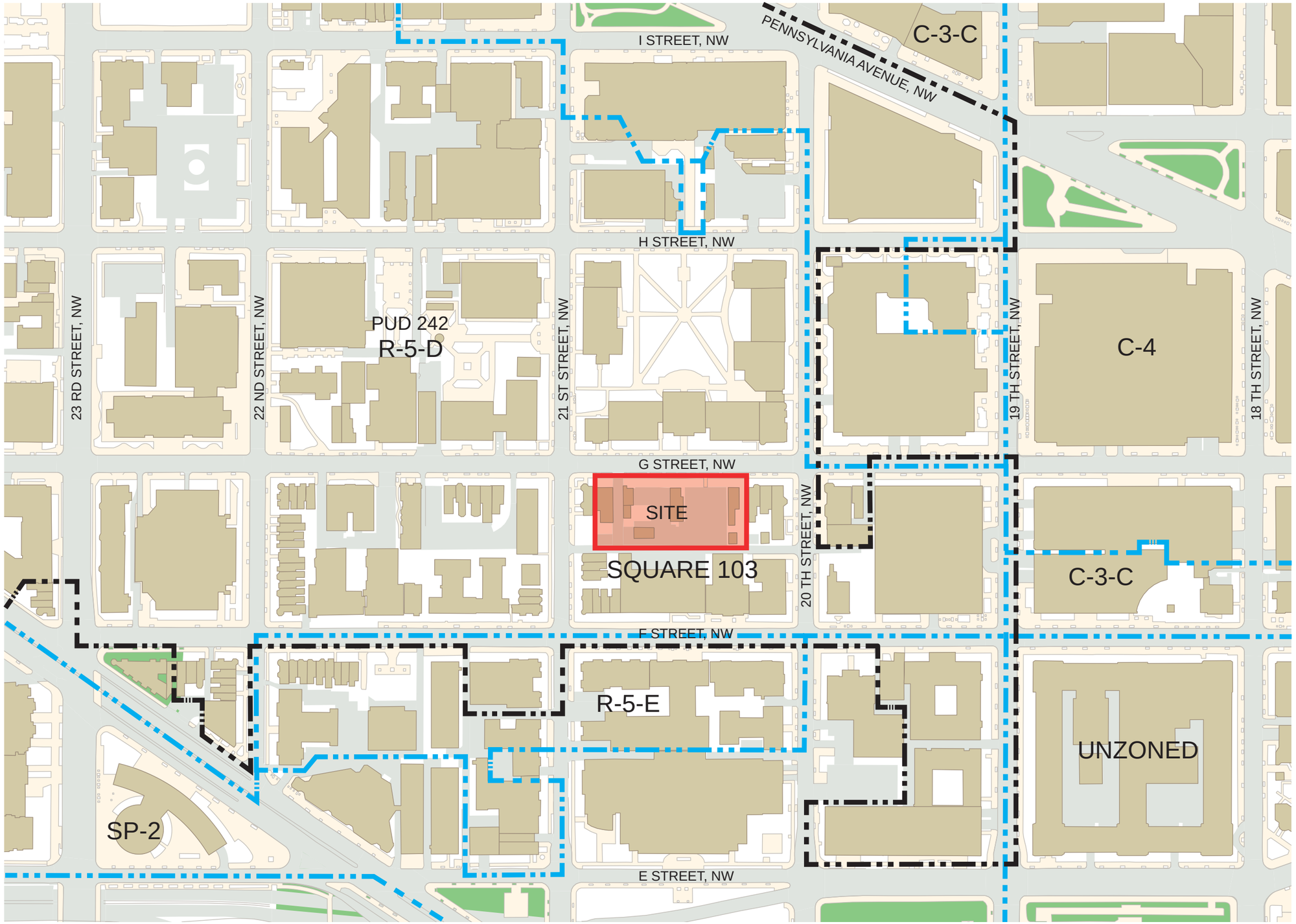
ZONING TABULATIONS

SQUARE: 103
LOTS: 13, 14, 18, 809, 812-814, 819-820
ZONE: R-5-D PUD
SITE AREA: 38,328 SF (Measured)

DCMR, TITLE 11	R-5-D DEVELOPMENT STANDARDS	DEVELOPMENT STANDARDS APPROVED UNDER CAMPUS PLAN PUD (Note 2)	PROPOSED DEVELOPMENT
FAR	3.5	4.85	0.194 TOTAL
GROSS FLOOR AREA (NOTE 1)	133,504 SF (MAX)	185,983 SF (MAX)	7,430 SF TOTAL
LOT OCCUPANCY	75.0%	90.0%	19.4%
BUILDING HEIGHT	90'-0"	80'-0"	27'-9" (TRELLIS)
PENTHOUSE HEIGHT	18'-6"	--	NONE PROVIDED
PENTHOUSE AREA	0.37 FAR	--	NONE PROVIDED
REAR YARD	4 IN/FT; 15'-0" MIN	--	12'-8" RELIEF REQUESTED
SIDE YARD	NONE REQUIRED 3 IN/FT OF HT, 8 FT MIN IF PROVIDED	--	NONE PROVIDED
COURTS **NON-RESIDENTIAL**	WIDTH = 3 IN/FT OF HT; 10 FT MIN (OPEN) WIDTH = 4 IN/FT OF HT; 15 FT MIN AREA = 2 X WIDTH SQUARED; 350 SF MIN (CLOSED)	-- --	MULTIPLE
PARKING	SCHOOL: 2 PER EACH 3 TEACHERS; + 1 PER 10 CLASSROOM SEATS 1 PER 12 STADIUM SEATS *OR* 1 PER 10 AUDITORIUM SEATS *(WHICHEVER IS GREATER)*	PER CAMPUS PLAN	450 SPACES (NOTE 3)
LOADING	SCHOOL (OTHER USE LESS THAN 100,000 SF): 1 BERTH @ 30 FT DEEP 1 PLATFORM @ 100 SF 1 SERVICE @ 20 FT DEEP	PER CAMPUS PLAN	1 BERTH @ 30 FT DEEP 1 PLATFORM @ 100 SF 8 SERVICE @ 20 FT DEEP

NOTES:

1. Gross Floor Area includes a deduction for mechanical shafts, but does not include areas for (1) bays projecting over the property line, (2) parking access ramps, and (3) spaces with structural clearance less than 6'-6".
2. PUD development standards per Campus Plan, Zoning Commission Order No. 06-11/06-12.
3. Includes 35 tandem spaces. Relief already granted per previously approved campus plan.



KEY

- SITE BOUNDARY
- CAMPUS BOUNDARY
- ZONE BOUNDARY

0 50' 100' 200'

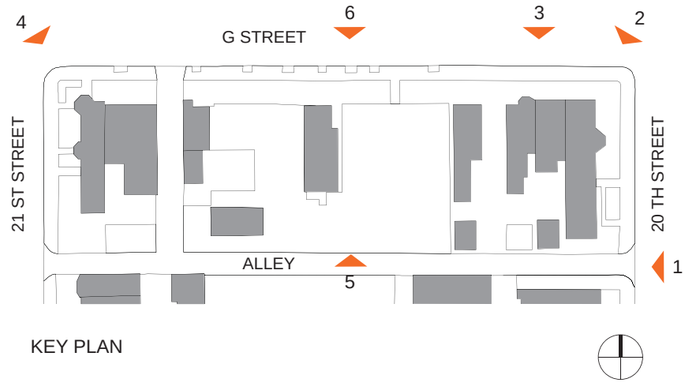
D2

ZONE BOUNDARY SITE PLAN

PERKINS + WILL | shalom baranes associates architects

1. VIEW OF ALLEY LOOKING WEST FROM 20TH STREET

2. VIEW OF ADJACENT ROW STRUCTURES AT G AND 20TH STREETS LOOKING SW

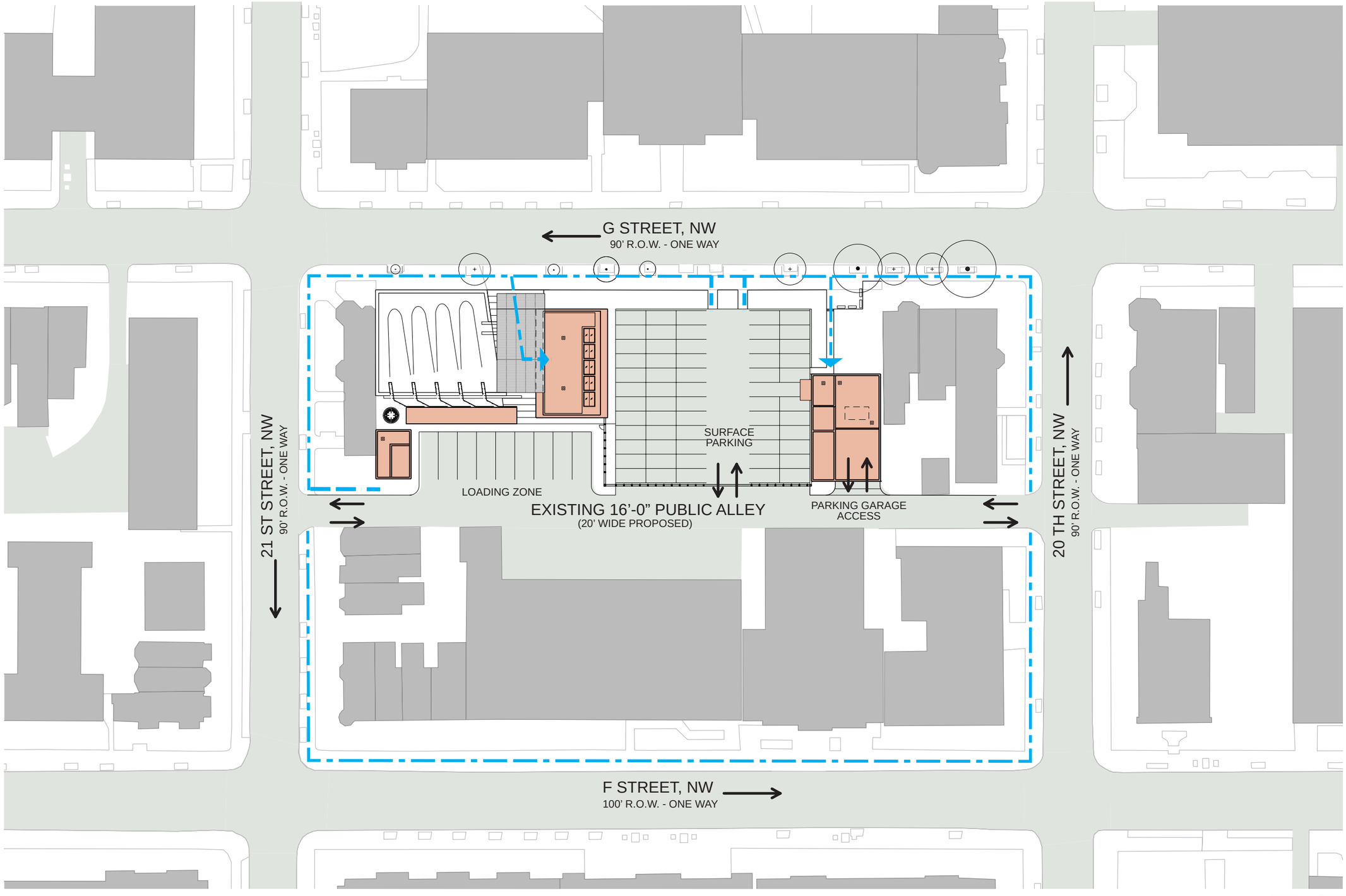


3. VIEW OF ADJACENT ROW STRUCTURES FROM G STREET

4. VIEW OF ADJACENT STRUCTURES AT G AND 21ST STREETS LOOKING SE

5. VIEW OF SITE FROM ALLEY, MID-BLOCK, LOOKING NORTH

6. VIEW OF SITE FROM G STREET, MID-BLOCK, LOOKING SOUTH



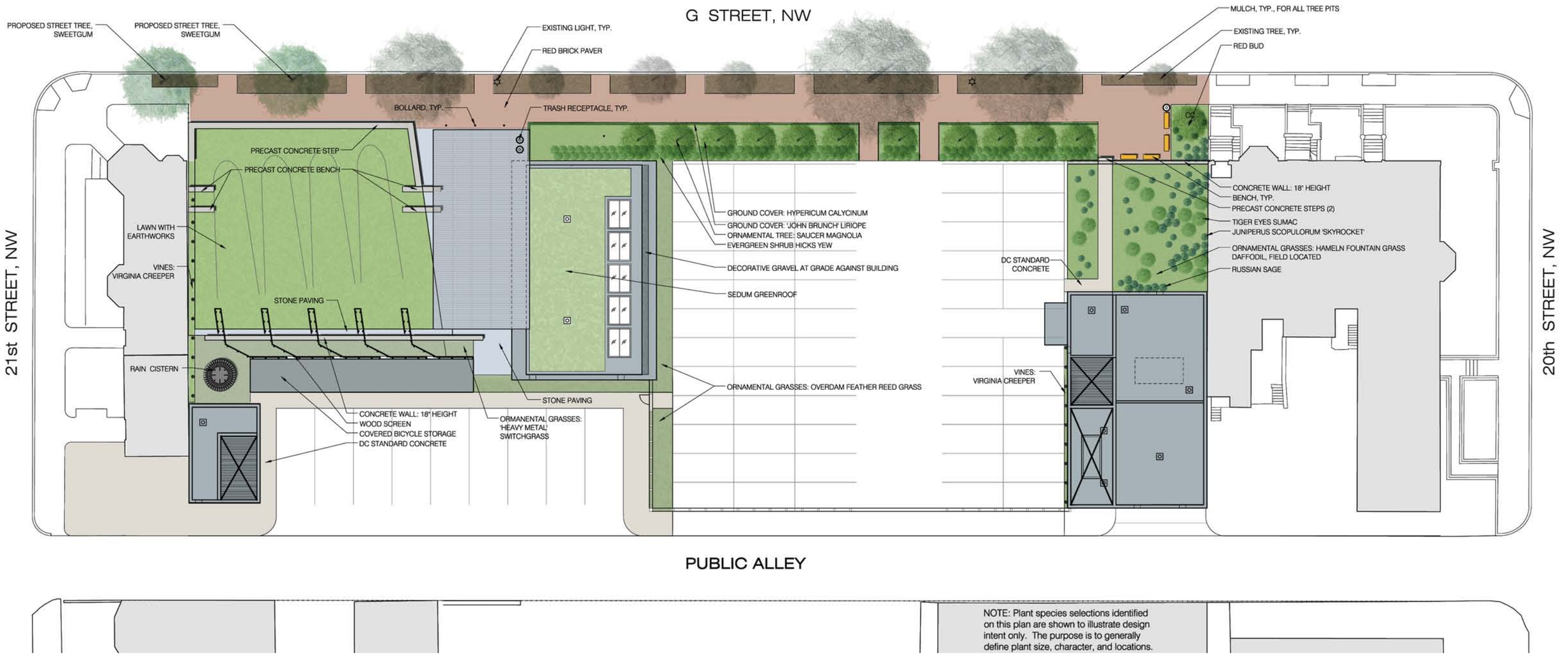
KEY

PEDESTRIAN PATH OF TRAVEL

0 15' 30' 60'

S3

SITE CIRCULATION DIAGRAM



LANDSCAPE PLAN

L1


SWEETGUM


SAUCER MAGNOLIA


RED BUD


HICKS YEW


SKYROCKET JUNIPER


TIGER EYES SUMAC

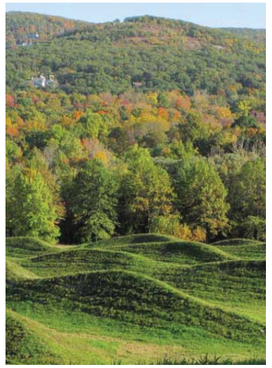

HYPERICUM CALYCINUM


RUSSIAN SAGE


HAMELN FOUNTAIN GRASS


OVERDAM FEATHER REED GRASS


NORTHWIND SWITCHGRASS


LAWN WITH EARTHWORKS


'JOHN BURCH' LIRIOPE

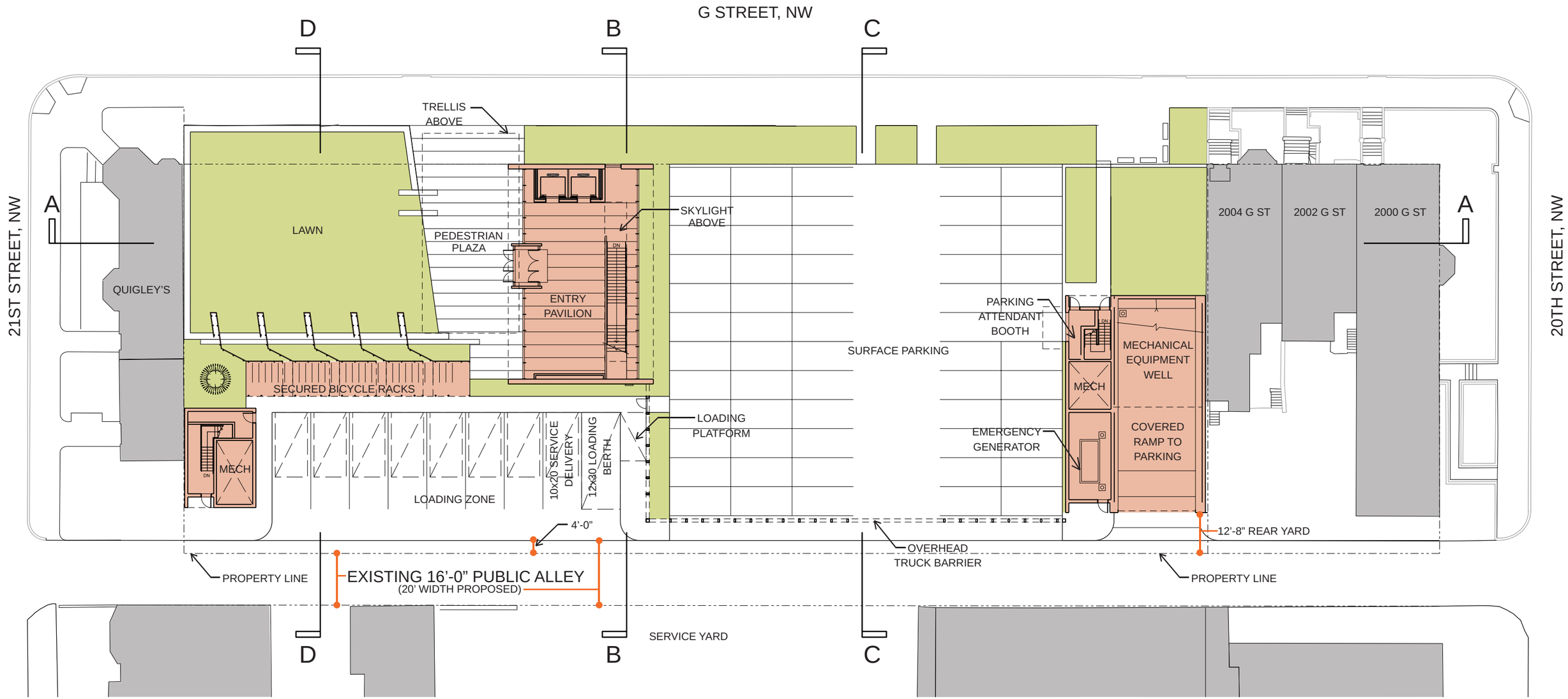

VIRGINIA CREEPER


DAFFODIL


SEDUM GREEN ROOF


BENCH


BOLLARD

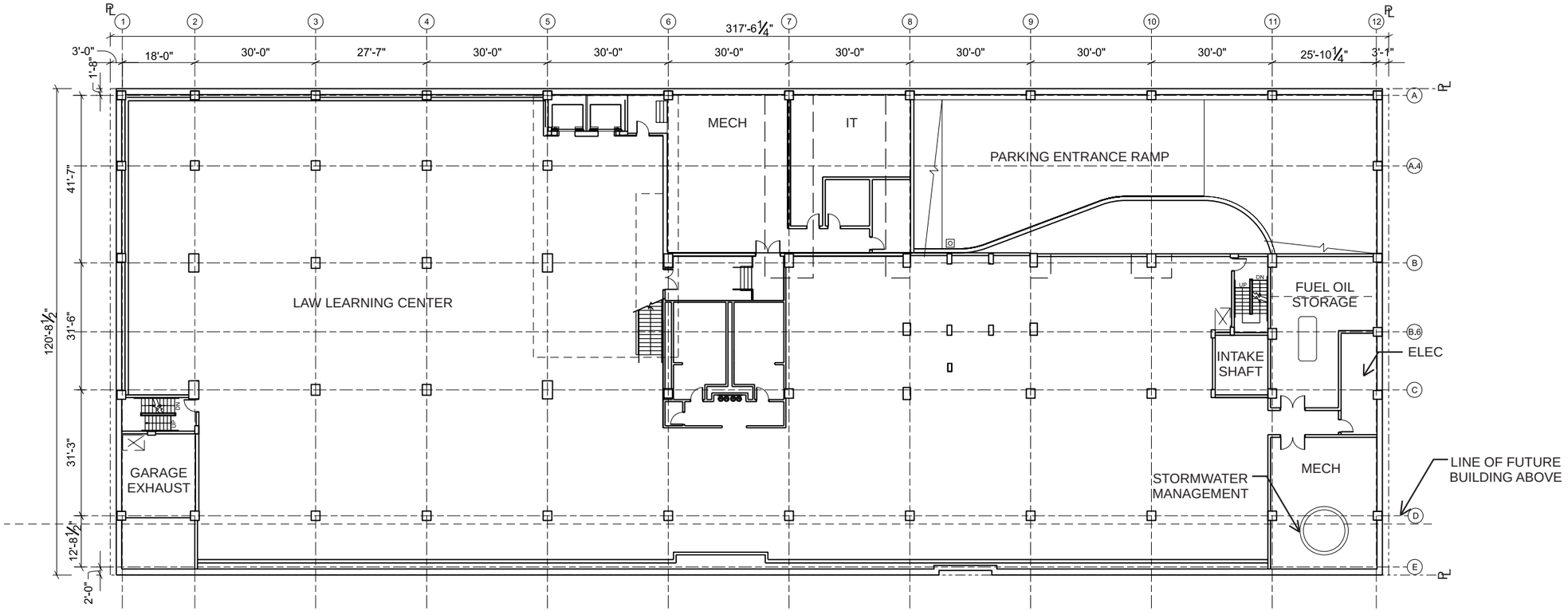


NOTE: INTERIOR DESIGN IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

PLAZA LEVEL PLAN

0 5' 15' 30'

A1

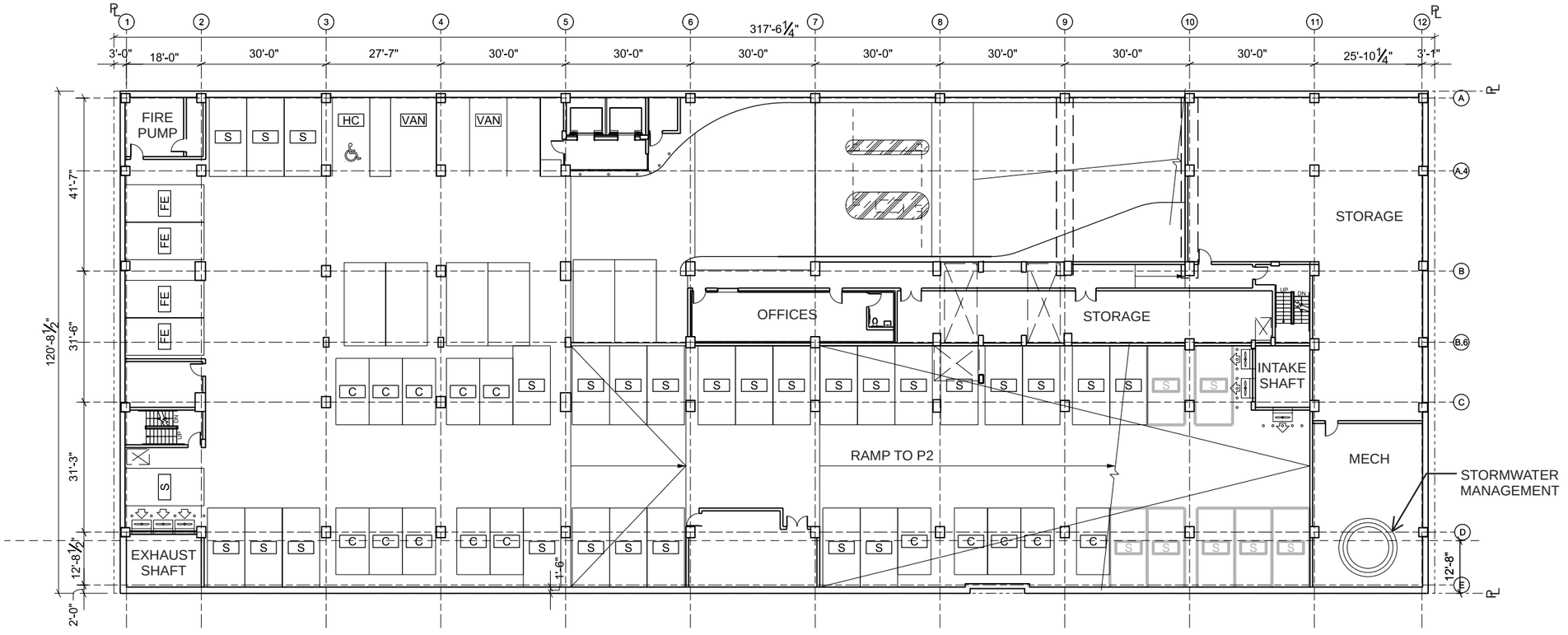


NOTE: INTERIOR DESIGN IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

LOWER LEVEL PLAN

0 5' 15' 30'

A2

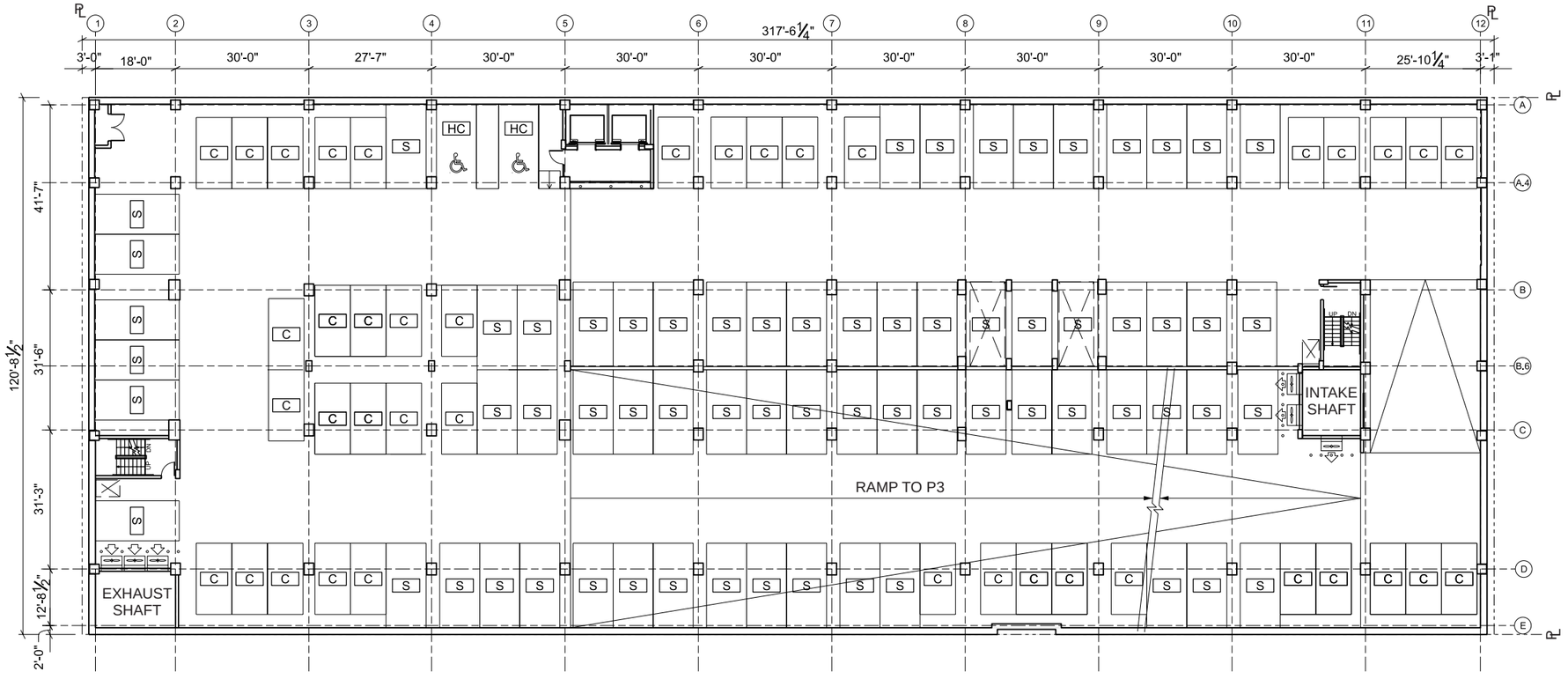


NOTE: INTERIOR DESIGN AND PARKING LAYOUT ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

P1 LEVEL PLAN

0 5' 15' 30'

A3

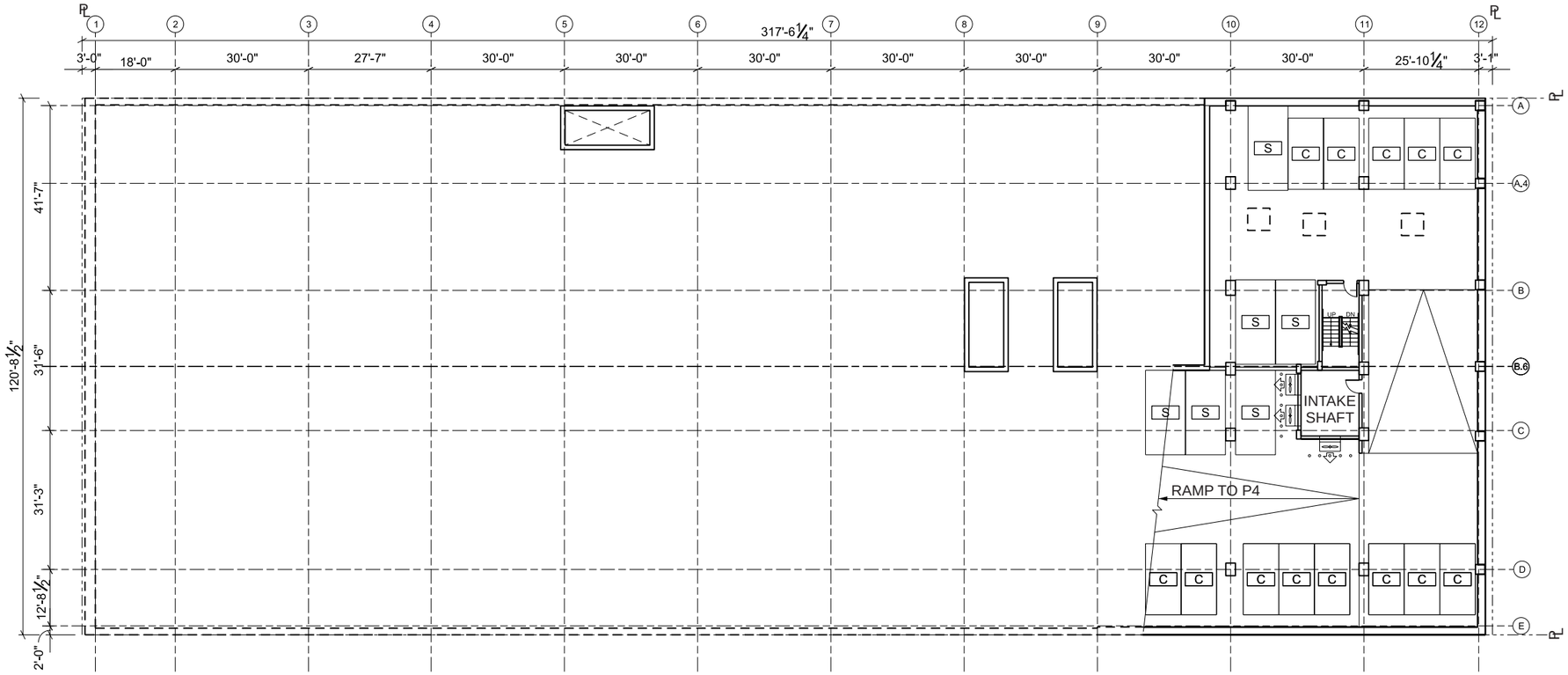


NOTE: INTERIOR DESIGN AND PARKING LAYOUT ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

P2 LEVEL PLAN (TYPICAL)

0 5' 15' 30'

A4



PARKING SUMMARY

LEVEL	HANDICAP (HC)	COMPACT (C) 8'X16'	STANDARD (S) 9'X19'	FUEL EFFICIENT VEHICLES (FE)	TANDEM (T)	10' X 20'	TOTAL
GROUND LEVEL			23		35		58
P1 LEVEL	3 (Includes 2 HC Van Spaces)	15	35	4		6	63
P2 LEVEL	2	38	58				98
P3 LEVEL	2	36	68				106
P4 LEVEL	2	36	68				106
P5 LEVEL		13	6				19
TOTAL	**9**	**138**	**258**	**4**	**35**	**6**	**450**

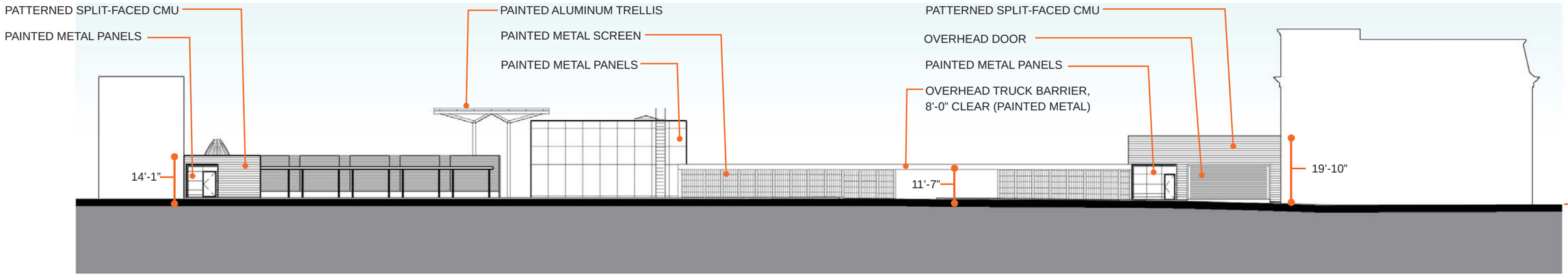
Parking relief for use of tandem/valet spaces already granted per previously approved campus plan. In accordance with this approval, the University may modify the parking garage operation further to add or remove tandem/valet spaces to accommodate parking demand needs.

NOTE: INTERIOR DESIGN AND PARKING LAYOUT ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

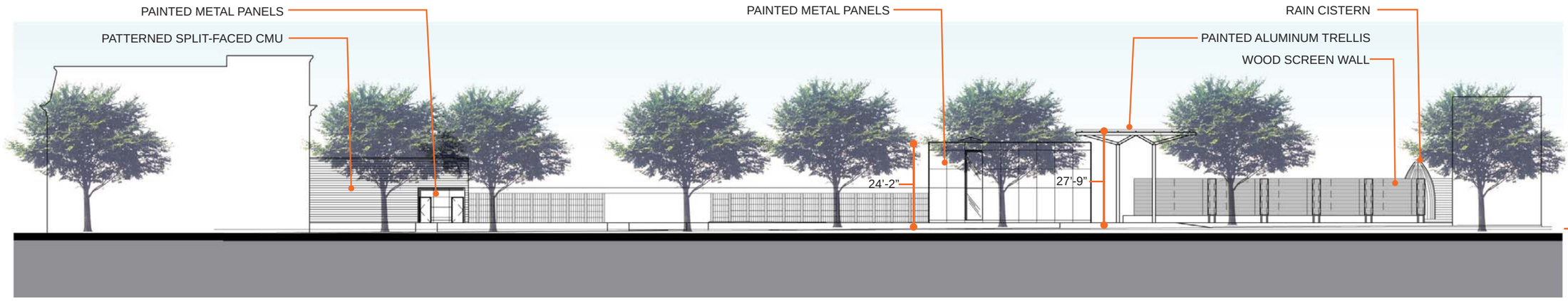
P5 LEVEL PLAN

0 5' 15' 30'

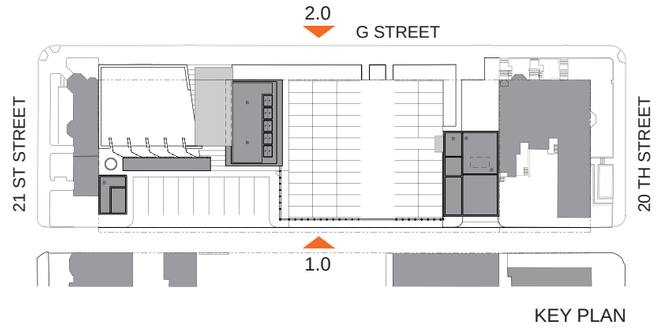
A5



ELEVATION 1.0 SOUTH SITE AT ALLEY



ELEVATION 2.0 NORTH SITE AT G STREET

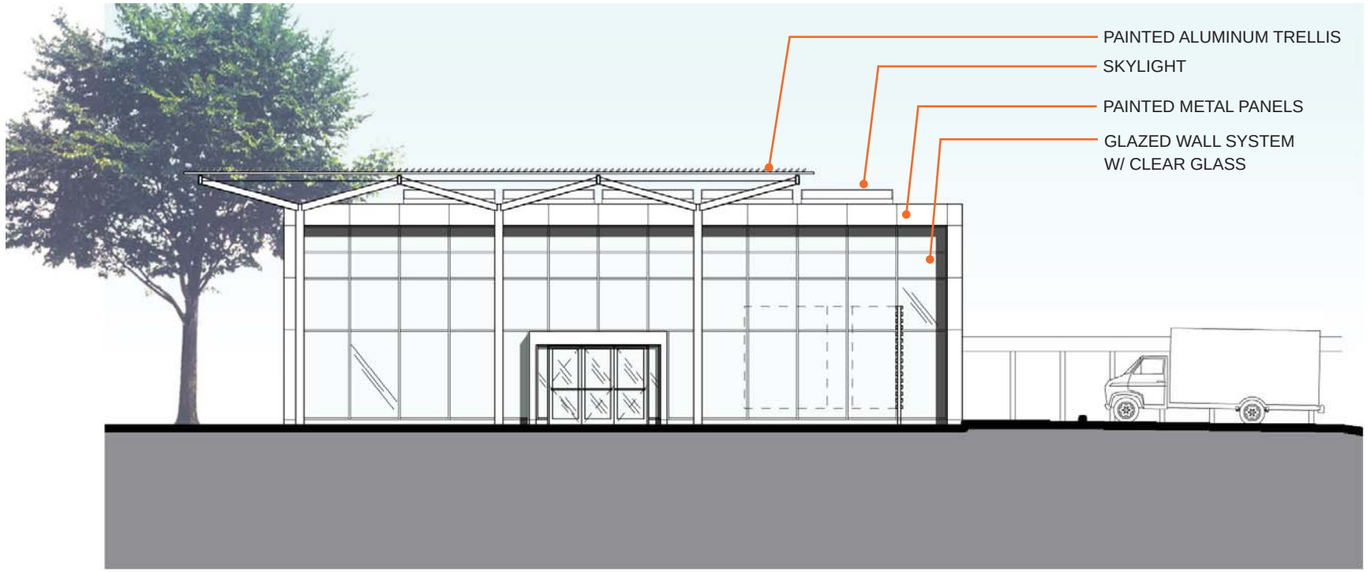


NOTE: BUILDING HEIGHTS ARE TAKEN FROM MEASURING POINT: 65.39' (T.C. AT G STREET).

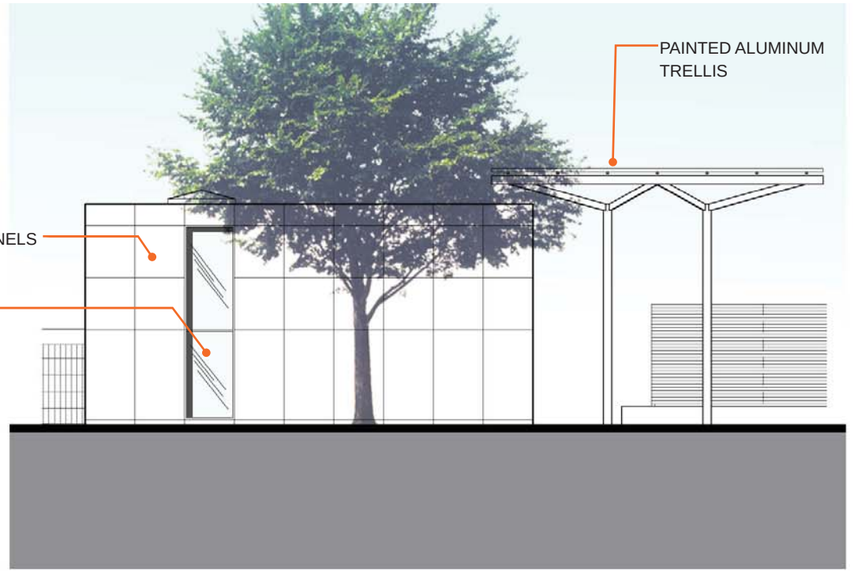
0 5' 15' 30'

SITE ELEVATIONS

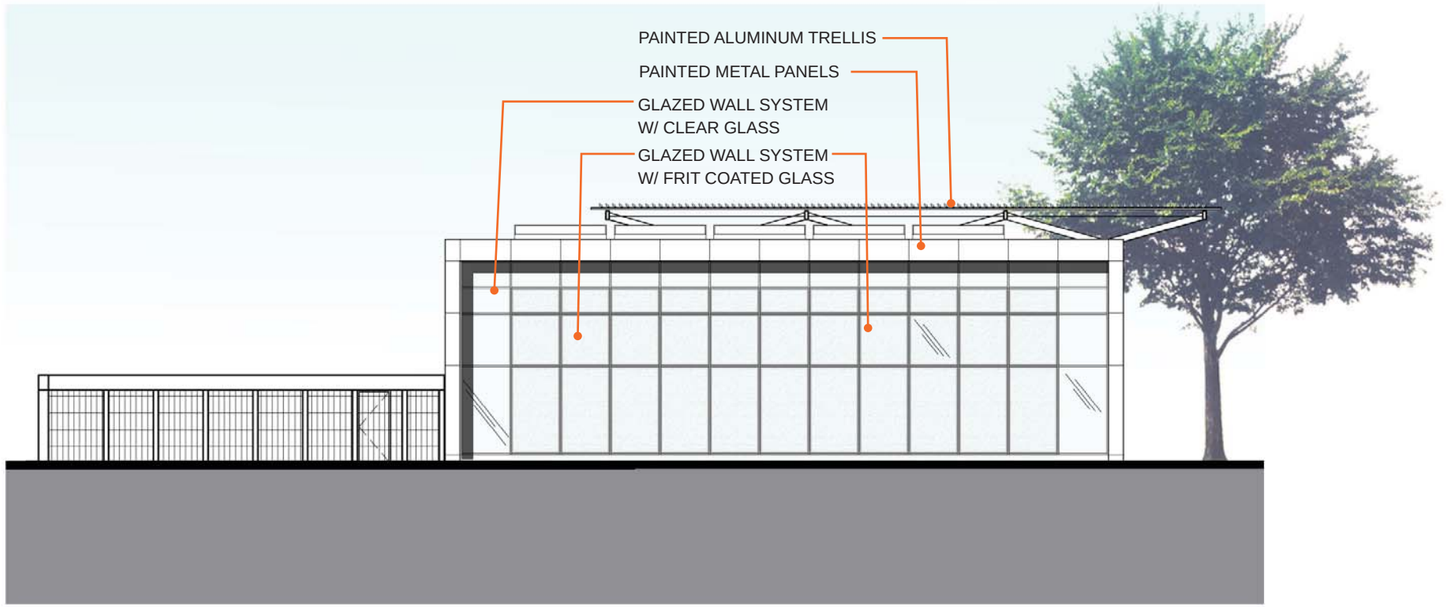
A6



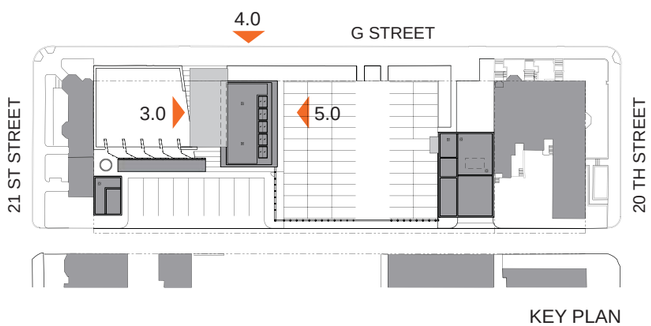
ELEVATION 3.0 ENTRY PAVILION - WEST ELEVATION



ELEVATION 4.0 ENTRY PAVILION - NORTH ELEVATION



ELEVATION 5.0 ENTRY PAVILION - EAST ELEVATION



KEY PLAN

0 7.5' 15'

ENTRY PAVILION ELEVATIONS

The George Washington University - Square 103 Phase 1 Design
August 16, 2010

FOGGY BOTTOM CAMPUS PLAN PUD

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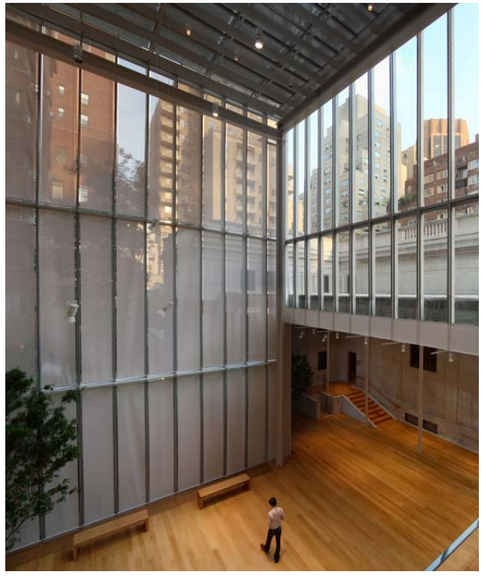
TEXTURED CONCRETE MASONRY

GLAZED WALL SYSTEM

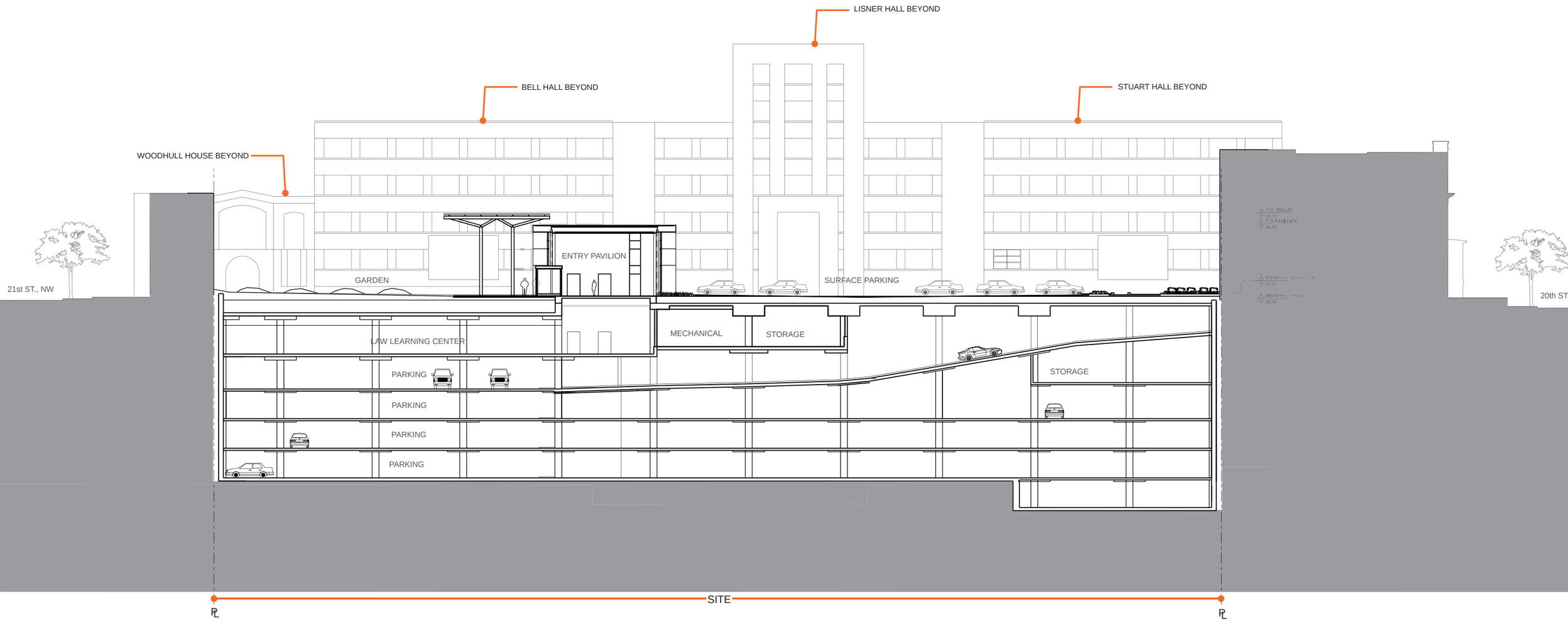
PAINTED METAL PANELS

WOOD SCREEN

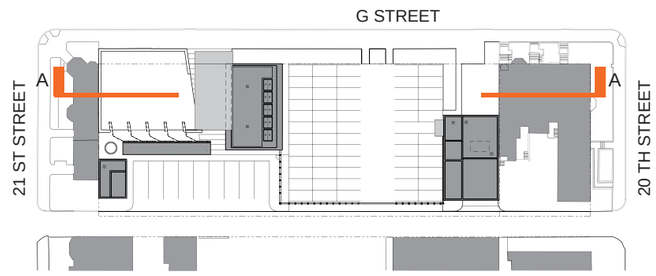


GLAZED WALL SYSTEM

ALUMINUM TRELLIS



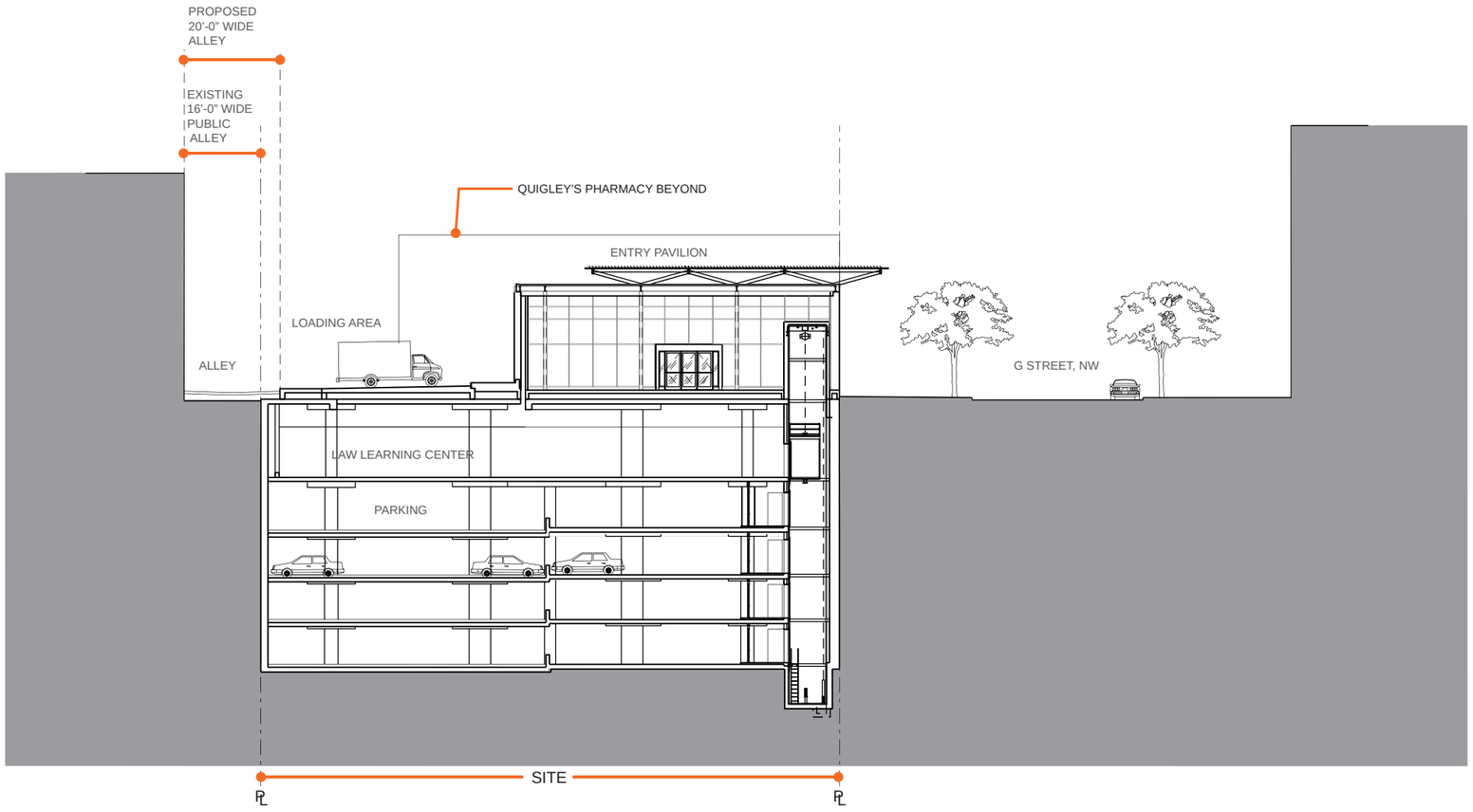
SECTION A-A: EAST-WEST SECTION LOOKING NORTH



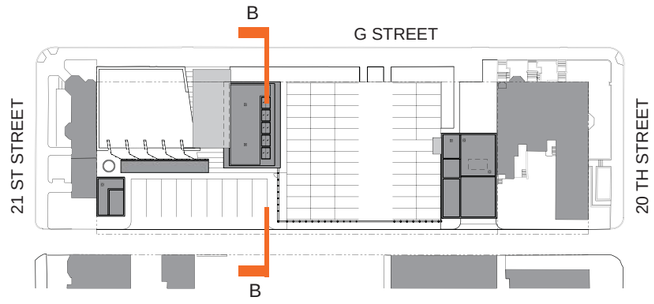
NOTE: INTERIOR DESIGN IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

BUILDING SECTION A-A

A9



SECTION B-B: NORTH-SOUTH SECTION LOOKING WEST



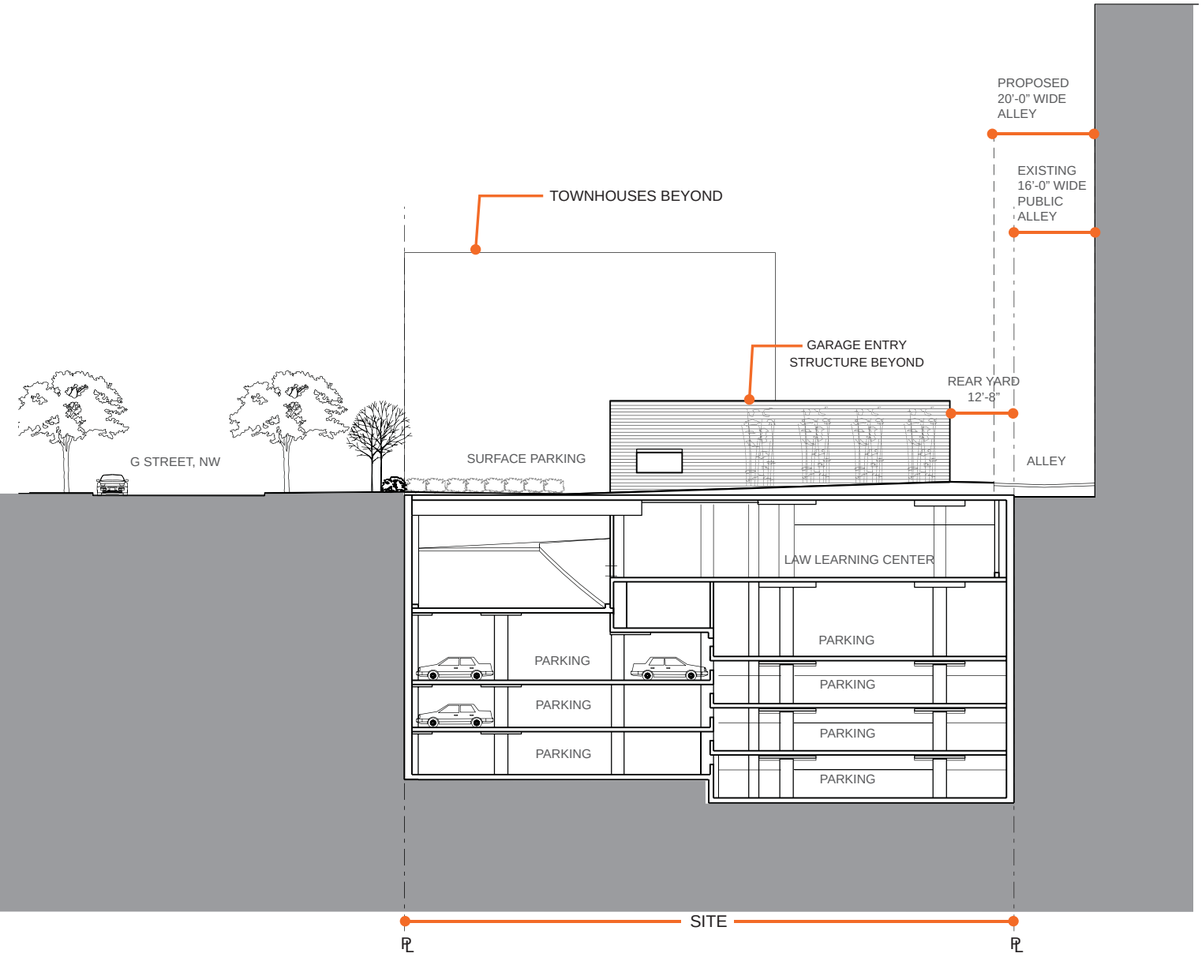
KEY PLAN

NOTE: INTERIOR DESIGN IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

0 5' 15' 30'

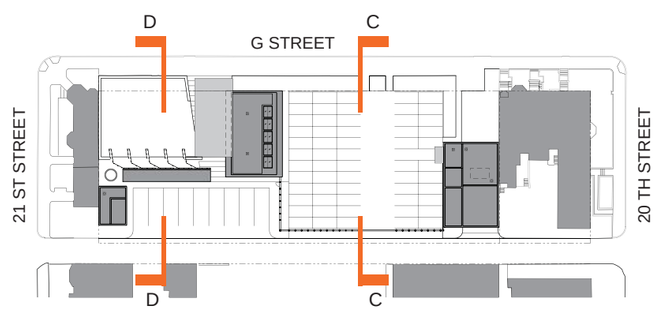
BUILDING SECTION B-B

A10



SECTION C-C: NORTH-SOUTH SECTION LOOKING EAST

SECTION D-D: NORTH-SOUTH SECTION LOOKING WEST



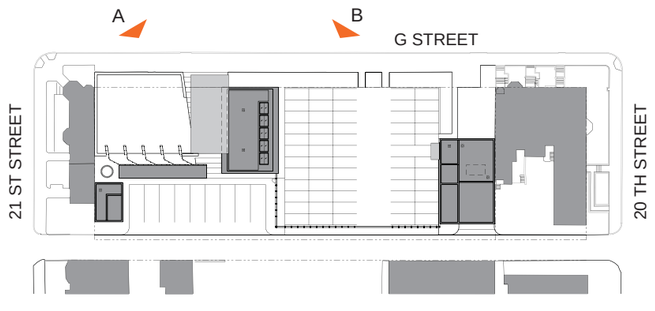
NOTE: INTERIOR DESIGN IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL DESIGN MAY VARY.

BUILDING SECTIONS C-C & D-D

A11

VIEW A GARDEN AND ENTRY PAVILION FROM G STREET - LOOKING SOUTH

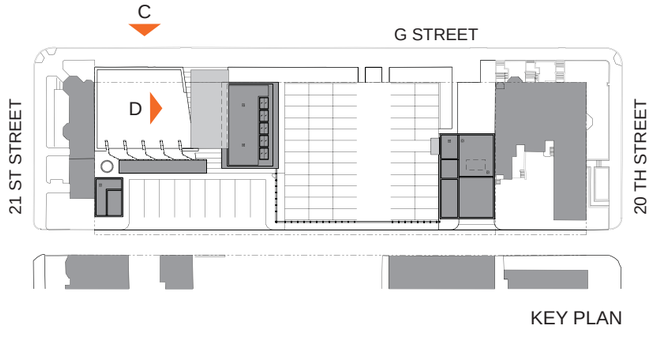
VIEW B ENTRY PAVILION FROM G STREET - LOOKING WEST



KEY PLAN

VIEW C GARDEN AND ENTRY PAVILION FROM G STREET - LOOKING SOUTH

VIEW D ENTRY PAVILION FROM GARDEN - LOOKING EAST



KEY PLAN

LEED 2009 for New Construction and Major Renovation

Project Checklist

GWU Square 103

5/17/2010

Sustainable Sites — Possible Points: 26

Y	N	?			
Y			Prereq 1	Construction Activity Pollution Prevention	
1			Credit 1	Site Selection	1
5			Credit 2	Development Density and Community Connectivity	5
	1		Credit 3	Brownfield Redevelopment	1
6			Credit 4.1	Alternative Transportation—Public Transportation Access	6
		1	Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1
3			Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3
		1	Credit 4.4	Alternative Transportation—Parking Capacity	2
		1	Credit 5.1	Site Development—Protect or Restore Habitat	1
		1	Credit 5.2	Site Development—Maximize Open Space	1
1			Credit 6.1	Stormwater Design—Quantity Control	1
1			Credit 6.2	Stormwater Design—Quality Control	1
		1	Credit 7.1	Heat Island Effect—Non-roof	1
1			Credit 7.2	Heat Island Effect—Roof	1
1			Credit 8	Light Pollution Reduction	1

Water Efficiency — Possible Points: 10

Y			Prereq 1	Water Use Reduction—20% Reduction	
4			Credit 1	Water Efficient Landscaping	2 to 4
				[ ] Reduce by 50%	2
				[X] No Potable Water Use or Irrigation	4
		2	Credit 2	Innovative Wastewater Technologies	2
3		1	Credit 3	Water Use Reduction	2 to 4
				[ ] Reduce by 30%	2
				[X] Reduce by 35%	3
				[?] Reduce by 40%	4

Energy and Atmosphere — Possible Points: 35

Y			Prereq 1	Fundamental Commissioning of Building Energy Systems	
Y			Prereq 2	Minimum Energy Performance	
Y			Prereq 3	Fundamental Refrigerant Management	
2		4	Credit 1	Optimize Energy Performance	1 to 19
				[ ] Improve by 12% for New Buildings or 8% for Existing Building Renovations	1
				[X] Improve by 14% for New Buildings or 10% for Existing Building Renovations	2
				[ ] Improve by 16% for New Buildings or 12% for Existing Building Renovations	3
				[ ] Improve by 18% for New Buildings or 14% for Existing Building Renovations	4
				[ ] Improve by 20% for New Buildings or 16% for Existing Building Renovations	5
				[ ] Improve by 22% for New Buildings or 18% for Existing Building Renovations	6
				[ ] Improve by 24% for New Buildings or 20% for Existing Building Renovations	7
				[ ] Improve by 26% for New Buildings or 22% for Existing Building Renovations	8
				[ ] Improve by 28% for New Buildings or 24% for Existing Building Renovations	9
				[ ] Improve by 30% for New Buildings or 26% for Existing Building Renovations	10
				[ ] Improve by 32% for New Buildings or 28% for Existing Building Renovations	11
				[ ] Improve by 34% for New Buildings or 30% for Existing Building Renovations	12
				[ ] Improve by 36% for New Buildings or 32% for Existing Building Renovations	13
				[ ] Improve by 38% for New Buildings or 34% for Existing Building Renovations	14
				[ ] Improve by 40% for New Buildings or 36% for Existing Building Renovations	15
				[ ] Improve by 42% for New Buildings or 38% for Existing Building Renovations	16
				[ ] Improve by 44% for New Buildings or 40% for Existing Building Renovations	17
				[ ] Improve by 46% for New Buildings or 42% for Existing Building Renovations	18
				[ ] Improve by 48%+ for New Buildings or 44%+ for Existing Building Renovations	19
	7		Credit 2	On-Site Renewable Energy	1 to 7
				[ ] 1% Renewable Energy	1
				[ ] 3% Renewable Energy	2
				[ ] 5% Renewable Energy	3
				[ ] 7% Renewable Energy	4
				[ ] 9% Renewable Energy	5
				[ ] 11% Renewable Energy	6
				[ ] 13% Renewable Energy	7
2			Credit 3	Enhanced Commissioning	2
		2	Credit 4	Enhanced Refrigerant Management	2
	3		Credit 5	Measurement and Verification	3
		2	Credit 6	Green Power	2

Materials and Resources — Possible Points: 14

Y			Prereq 1	Storage and Collection of Recyclables	
	3		Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3
				[ ] Reuse 55%	1
				[ ] Reuse 75%	2
				[ ] Reuse 95%	3
	1		Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1
2			Credit 2	Construction Waste Management	1 to 2
				[ ] 50% Recycled or Salvaged	1
				[X] 75% Recycled or Salvaged	2
	2		Credit 3	Materials Reuse	1 to 2
				[ ] Reuse 5%	1
				[ ] Reuse 10%	2
2			Credit 4	Recycled Content	1 to 2
				[ ] 10% of Content	1
				[X] 20% of Content	2
2			Credit 5	Regional Materials	1 to 2
				[ ] 10% of Materials	1
				[X] 20% of Materials	2
	1		Credit 6	Rapidly Renewable Materials	1
		1	Credit 7	Certified Wood	1

Indoor Environmental Quality — Possible Points: 15

Y			Prereq 1	Minimum Indoor Air Quality Performance	
Y			Prereq 2	Environmental Tobacco Smoke (ETS) Control	
1			Credit 1	Outdoor Air Delivery Monitoring	1
	1		Credit 2	Increased Ventilation	1
1			Credit 3.1	Construction IAQ Management Plan—During Construction	1
1			Credit 3.2	Construction IAQ Management Plan—Before Occupancy	1
1			Credit 4.1	Low-Emitting Materials—Adhesives and Sealants	1
1			Credit 4.2	Low-Emitting Materials—Paints and Coatings	1
1			Credit 4.3	Low-Emitting Materials—Flooring Systems	1
1			Credit 4.4	Low-Emitting Materials—Composite Wood and Agrifiber Products	1
1			Credit 5	Indoor Chemical and Pollutant Source Control	1
1			Credit 6.1	Controllability of Systems—Lighting	1
1			Credit 6.2	Controllability of Systems—Thermal Comfort	1
1			Credit 7.1	Thermal Comfort—Design	1
1			Credit 7.2	Thermal Comfort—Verification	1
	1		Credit 8.1	Daylight and Views—Daylight	1
	3		Credit 8.2	Daylight and Views—Views	1

Innovation and Design Process — Possible Points: 6

1			Credit 1.1	Innovation in Design: Specific Title	1
1			Credit 1.2	Innovation in Design: Specific Title	1
1			Credit 1.3	Innovation in Design: Specific Title	1
1			Credit 1.4	Innovation in Design: Specific Title	1
		1	Credit 1.5	Innovation in Design: Specific Title	1
1			Credit 2	LEED Accredited Professional	1

Regional Priority Credits — Possible Points: 4

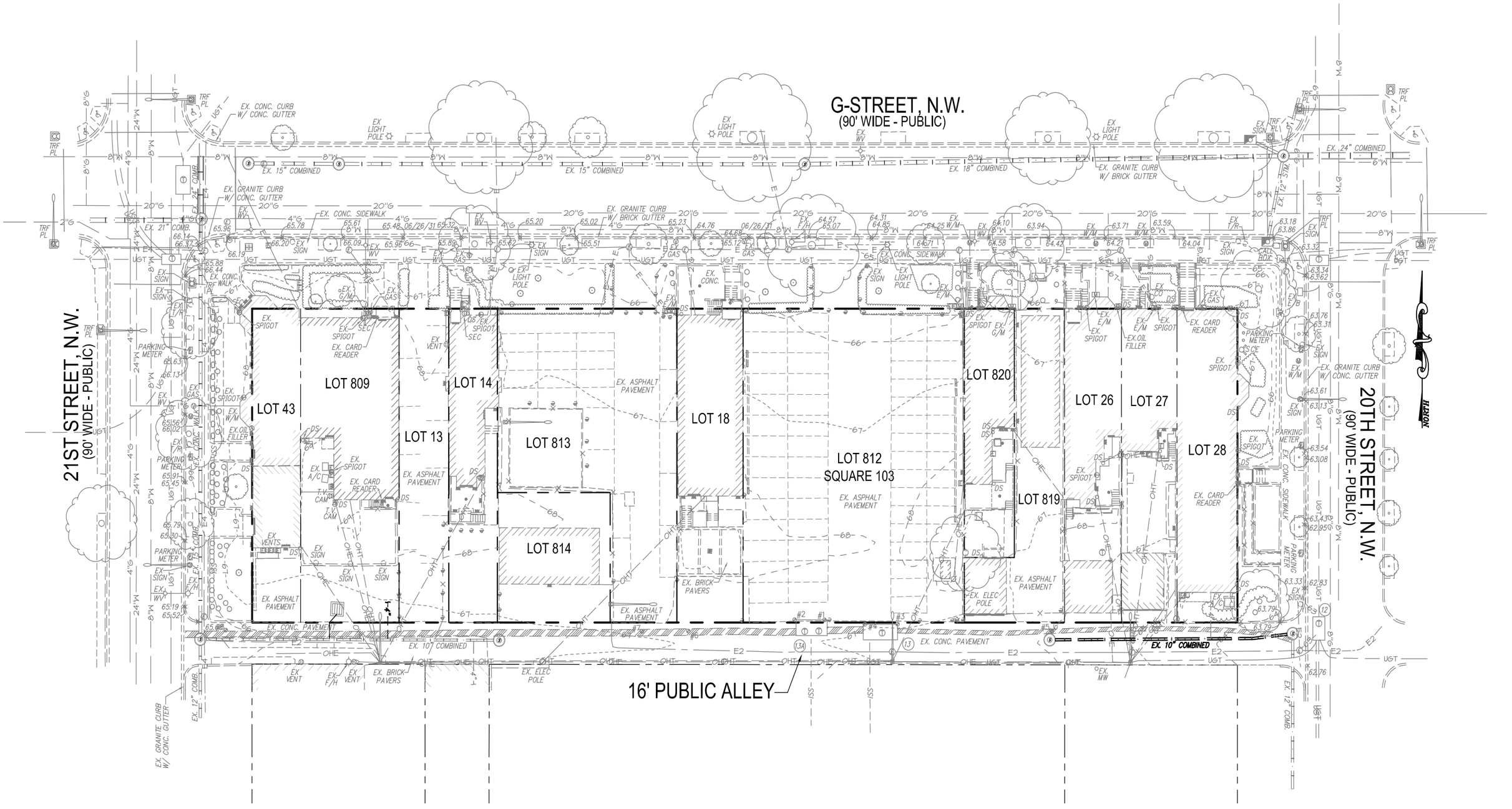
		1	Credit 1.1	Regional Priority: SsC5.1	1
1			Credit 1.2	Regional Priority: SSc6.1	1
		1	Credit 1.3	Regional Priority: WEc2	1
	1		Credit 1.4	Regional Priority: EAc1	1

Total — Possible Points: 110

Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110

NOTE:

THE 2007 FOGGY BOTTOM CAMPUS PLAN COMMITS GWU TO ACHIEVING THE EQUIVALENT OF 16 POINTS, USING USGBC'S LEED V2.2 SCORECARD AS AN EVALUATOR OF THE SUSTAINABLE QUOTIENT OF A PROJECT. THIS SCORECARD REFLECTS GWU'S ANTICIPATED GOAL OF SUBMITTING TO GBCI THIS PROJECT UNDER THE LEED V.3 (OR 2009) CERTIFICATION PROGRAM, AND ACHIEVING SILVER LEVEL CERTIFICATION.



40' 30' 20' 10' 0 40' 80'

1" = 40'

WILES MENSCH CORPORATION

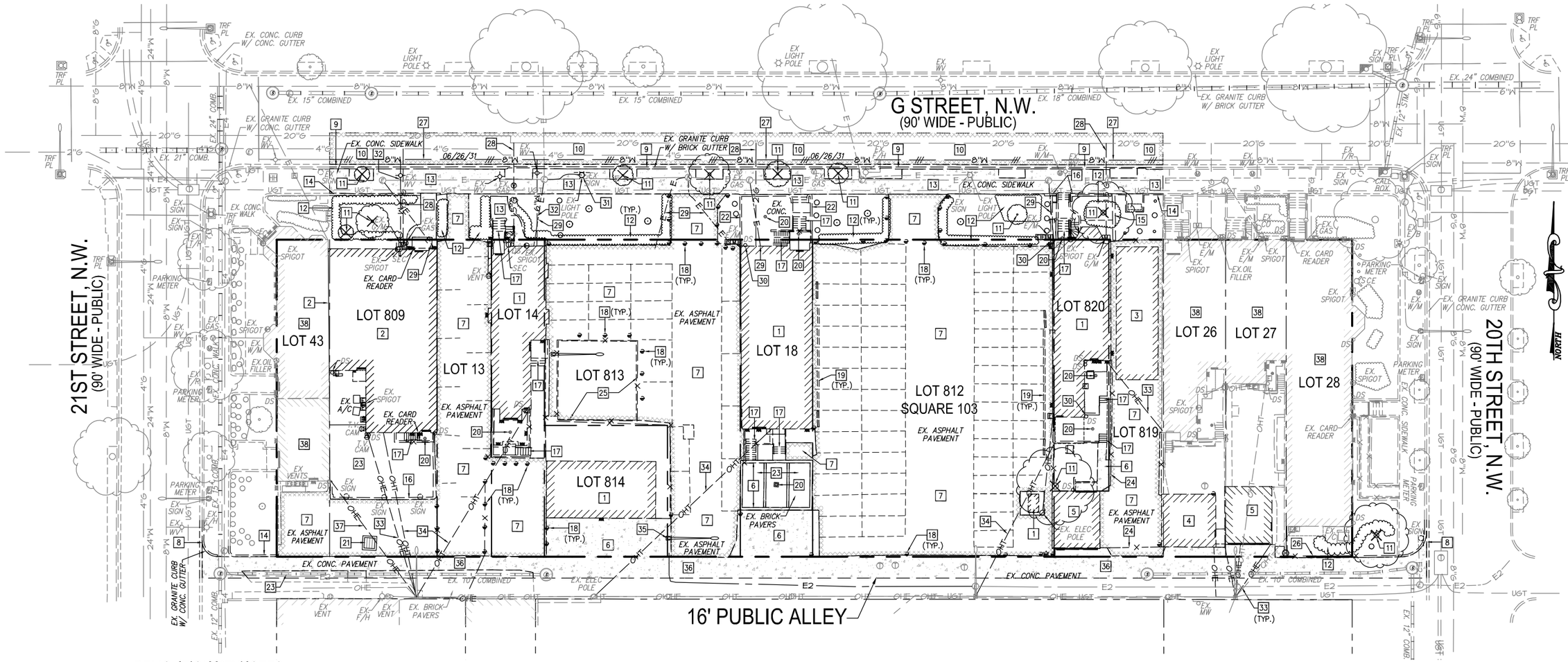
EXISTING CONDITIONS SURVEY

C1

The George Washington University - Square 103 Phase 1 Design
August 16, 2010

FOGGY BOTTOM CAMPUS PLAN PUD

PERKINS + WILL | shalom baranes associates architects

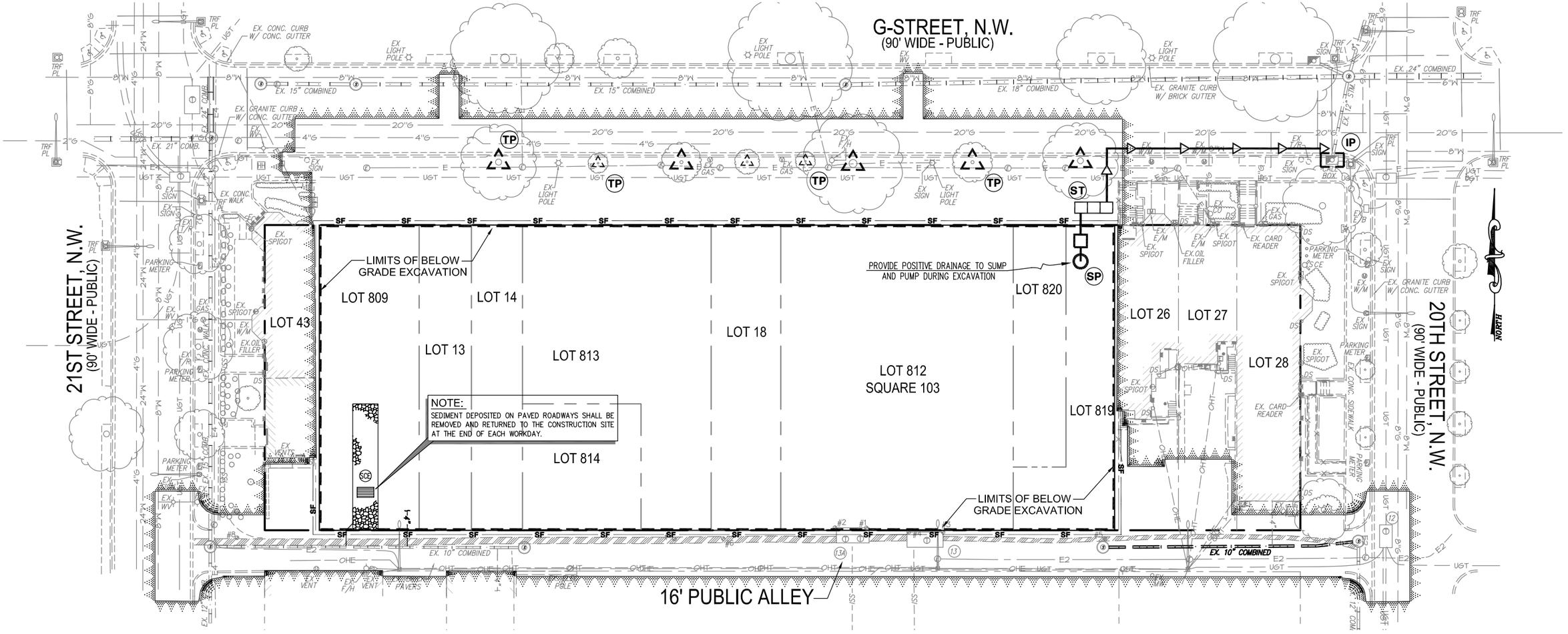


DEMOLITION KEYNOTES:

1. EXISTING BUILDING TO BE REMOVED.
2. EXISTING BUILDING TO BE REMOVED TO THE EXTENT OF PARTY WALL.
3. EXISTING COVERED STRUCTURE TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
4. EXISTING STRUCTURE REMAINS TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
5. EXISTING GARAGE/STORAGE STRUCTURE TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
6. EXISTING CONCRETE PAVEMENT TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
7. EXISTING ASPHALT PAVEMENT TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
8. EXISTING GRANITE CURB AND CONCRETE GUTTER TO BE REMOVED ON 20TH AND 21ST STREET, N.W. TO FACILITATE NEW CURB CUT PER DC/DDOT STANDARDS AND SPECIFICATIONS.
9. EXISTING GRANITE CURB AND BRICK GUTTER ON G-STREET, NW. TO BE REMOVED TO FACILITATE NEW CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS.
10. EXISTING ASPHALT SURFACE COURSE TO BE REMOVED ON CURB LANE (12' WIDE) PER DC/DDOT STANDARDS AND SPECIFICATIONS.
11. EXISTING TREE TO BE REMOVED. COORDINATE REQUIREMENTS WITH DC/DDOT URBAN FORESTRY.
12. EXISTING SHRUBS TO BE REMOVED.
13. EXISTING CONCRETE SIDEWALK TO BE REMOVED TO FACILITATE NEW CONSTRUCTION PER DC/DDOT STANDARDS AND SPECIFICATIONS.
14. EXISTING BRICK PLANTER TO BE REMOVED.
15. EXISTING STONE RETAINING WALL AND FOOTINGS TO BE REMOVED.
16. EXISTING WOODEN RETAINING WALL AND RELATED APPURTENANCES TO BE REMOVED.
17. EXISTING STEPS AND RELATED APPURTENANCES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
18. EXISTING BOLLARDS TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
19. EXISTING CONCRETE WHEEL STOPS TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
20. EXISTING DRAIN INLET AND RELATED APPURTENANCES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
21. EXISTING AREA DRAIN AND RELATED APPURTENANCES TO BE REMOVED IF NOT REQUIRED FOR FUTURE SERVICE TO FACILITATE NEW CONSTRUCTION.
22. EXISTING BRICK RETAINING WALL AND FOOTINGS TO BE REMOVED.
23. EXISTING BRICK PAVERS TO BE REMOVED.
24. EXISTING 10' CHAIN LINK FENCE TO BE REMOVED.
25. EXISTING CHAIN LINK FENCE AND ASPHALT BASKETBALL COURT TO BE REMOVED.
26. EXISTING 4' ORNAMENTAL FENCE TO BE REMOVED.
27. EXISTING 8" WATER MAIN TO BE REMOVED PER DC/WASA'S REPLACEMENT POLICY OF REPLACING ANY WATER MAIN THAT WAS BUILT 50 YEARS OR MORE AGO. DISCONNECT ANY EXISTING WATER SERVICE LATERAL FROM THE MAIN PER DC/WASA STANDARDS AND SPECIFICATIONS.
28. EXISTING GAS SERVICE LATERAL NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. COORDINATE REQUIREMENTS WITH WASHINGTON GAS FOR PERMANENT DISCONNECTION AT THE MAIN.
29. EXISTING ELECTRIC SERVICE NOT REQUIRED FOR FUTURE SERVICE TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. COORDINATE REQUIREMENTS WITH PEPCO PRIOR TO REMOVAL.
30. EXISTING DOWNSPOUT TO BE REMOVED TO FACILITATE NEW CONSTRUCTION.
31. EXISTING STREET LIGHT TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. COORDINATE REQUIREMENTS WITH DC STREETLIGHT DIVISION.
32. EXISTING WATER SERVICE LATERAL TO BE REMOVED TO EXTENT NECESSARY TO FACILITATE NEW CONSTRUCTION. REMAINDER OF LINE TO BE ABANDONED. TEES AND VALVES TO BE REMOVED AT THE MAIN PER DC/WASA STANDARDS AND SPECIFICATIONS.
33. EXISTING OVERHEAD ELECTRIC WIRES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. COORDINATE REQUIREMENTS WITH PEPCO PRIOR TO REMOVAL.
34. EXISTING OVERHEAD TELEPHONE WIRES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. COORDINATE REQUIREMENTS WITH VERIZON PRIOR TO REMOVAL.
35. EXISTING LIGHT POLE AND APPURTENANCES TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. COORDINATE REQUIREMENTS WITH PEPCO PRIOR TO REMOVAL.
36. EXISTING CONCRETE PAVEMENT AT THE CENTERLINE OF THE ALLEY TO BE REMOVED PER DC/DDOT STANDARDS AND SPECIFICATIONS.
37. EXISTING OVERHEAD ELECTRIC TO BE REMOVED TO FACILITATE NEW CONSTRUCTION. PROVIDE NEW SERVICE PRIOR TO REMOVAL. COORDINATE REQUIREMENTS WITH PEPCO.
38. EXISTING BUILDING TO REMAIN.

DEMOLITION PLAN

C2



LEGEND

	PROPOSED
TEMP CONSTRUCTION ENTRANCE	SCE
WASH RACK	
SILT FENCE	SF
INLET PROTECTION	IP
APPROXIMATE LIMIT OF BELOW GRADE EXCAVATION	
APPROXIMATE LIMIT OF DISTURBANCE	
TREE PROTECTION	TP

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
   A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
   B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
   C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K PA) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
   A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES;
   B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
   C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND SITE BOUNDARIES.

CONSTRUCTION AND STABILIZATION SEQUENCE:

1. INSTALL SEDIMENT AND EROSION CONTROL MEASURES INCLUDING STABILIZED TREE PROTECTION, AND SILT FENCE AS INDICATED ON SHEET C1.03. SEE SHEET C1.08 FOR SEDIMENTATION AND EROSION CONTROL DETAILS.
2. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR PRIOR TO COMMENCING ANY OTHER LAND DISTURBING ACTIVITIES.
3. REMOVE ITEMS AS INDICATED ON DEMOLITION PLAN.
4. INSTALL SITE IMPROVEMENTS AS INDICATED ON CONSTRUCTION DOCUMENTS FOR THE PROPOSED BUILDING.
5. AT THE COMPLETION OF CONSTRUCTION AND AFTER THE INSPECTOR'S APPROVAL, ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED.

SEDIMENTATION EROSION CONTROL NOTE:

THE APPLICANT MUST NOTIFY THE DEPARTMENT OF HEALTH BY PHONE (202-535-2240) AT LEAST 24 HOURS PRIOR TO THE START OF GRADING ACTIVITY AND WITHIN (2) WEEKS AFTER COMPLETION OF PROJECT TO REQUEST INSPECTION. IF THERE IS NEED TO MAKE CHANGES OR MODIFICATIONS IN THE APPROVED DESIGN, DEPARTMENT OF HEALTH MUST BE NOTIFIED IMMEDIATELY.

SCHEDULE AND HOLD PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY. CALL 202-535-2977 FOR APPOINTMENT.

NOTE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF SHEETING AND SHORING AND SUPPORT OF EXISTING UTILITIES AND ADJACENT STRUCTURES. SHORING, BRACING, AND UNDERPINNING DESIGNED BY THE CONTRACTOR'S STRUCTURAL ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA SHALL BE PROVIDED AS NECESSARY TO ENSURE THEIR SUPPORT.
2. PROVIDE SILT FENCE AT PERIMETER OF EXCAVATION AREA TO REMAIN IN PLACE UNTIL BELOW GRADE EXCAVATION HAS BEGUN UNLESS OTHERWISE APPROVED BY THE INSPECTOR.
3. CONTRACTOR TO PROVIDE ON SITE APPROVED STAMPED AND SIGNED SEDIMENTATION AND EROSION CONTROL DRAWINGS BY DEPARTMENT OF HEALTH, WATERSHED PROTECTION DIVISION.

CONSTRUCTION DATES:

* THE PROPOSED DEMOLITION WORK DUE TO COMMENCE IN FALL 2010 AND IS ANTICIPATED TO TAKE APPROXIMATELY 24 MONTHS.
* EXACT BEGINNING AND END OF CONSTRUCTION IS TO BE ESTABLISHED BY THE OWNER.

TOTAL AREA OF DISTURBANCE:

TOTAL AREA OF DISTURBANCE: 39,956 SQUARE FEET OR 0.92 AC

TOTAL VOLUME OF CUT/FILL UTILITIES:

TOTAL AREA OF EXCAVATION: 2,470 SF

VOLUME OF CUT = $\frac{2,470 \text{ SQ.FT. (AREA)} \times 7 \text{ (DEPTH)}}{27} = 640$ CY

TOTAL VOLUME CUT/FILL UTILITIES= 640 CY +/-

TOTAL VOLUME OF CUT OF BELOW GRADE EXCAVATION:

TOTAL AREA OF EXCAVATION: 39,888 SF

VOLUME OF CUT = $\frac{39,888 \text{ SQ.FT. (AREA)} \times 23 \text{ (DEPTH)}}{27} = 33,979$ CY

TOTAL VOLUME CUT OF BELOW GRADE EXCAVATION= 33,979 CY +/-

SEDIMENT CONTROL APPROVAL:

PLAN NUMBER: _____

THIS APPROVAL IS FOR GRADING AND SEDIMENT CONTROL ONLY. PERMITTEE/ CONTRACTOR IS REQUIRED TO CONSTRUCT DESIGN FEATURE SHOWN HEREON. HE SHALL NOTIFY THIS OFFICE AT NUMBER LISTED BELOW AT LEAST 24 HOURS BEFORE START OF GRADING ACTIVITY, AND WITHIN TWO WEEKS AFTER COMPLETION OF PROJECT FOR FINAL INSPECTION.

_____ DATE

_____ EROSION AND SEDIMENT CONTROL BRANCH

FOR FURTHER INFORMATION, PLEASE CALL:
GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH ADMINISTRATION
WATERSHED PROTECTION DIVISION

51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, D.C. 20002
TEL NO. (202) 535-2240
FAX NO. (202) 535-1364

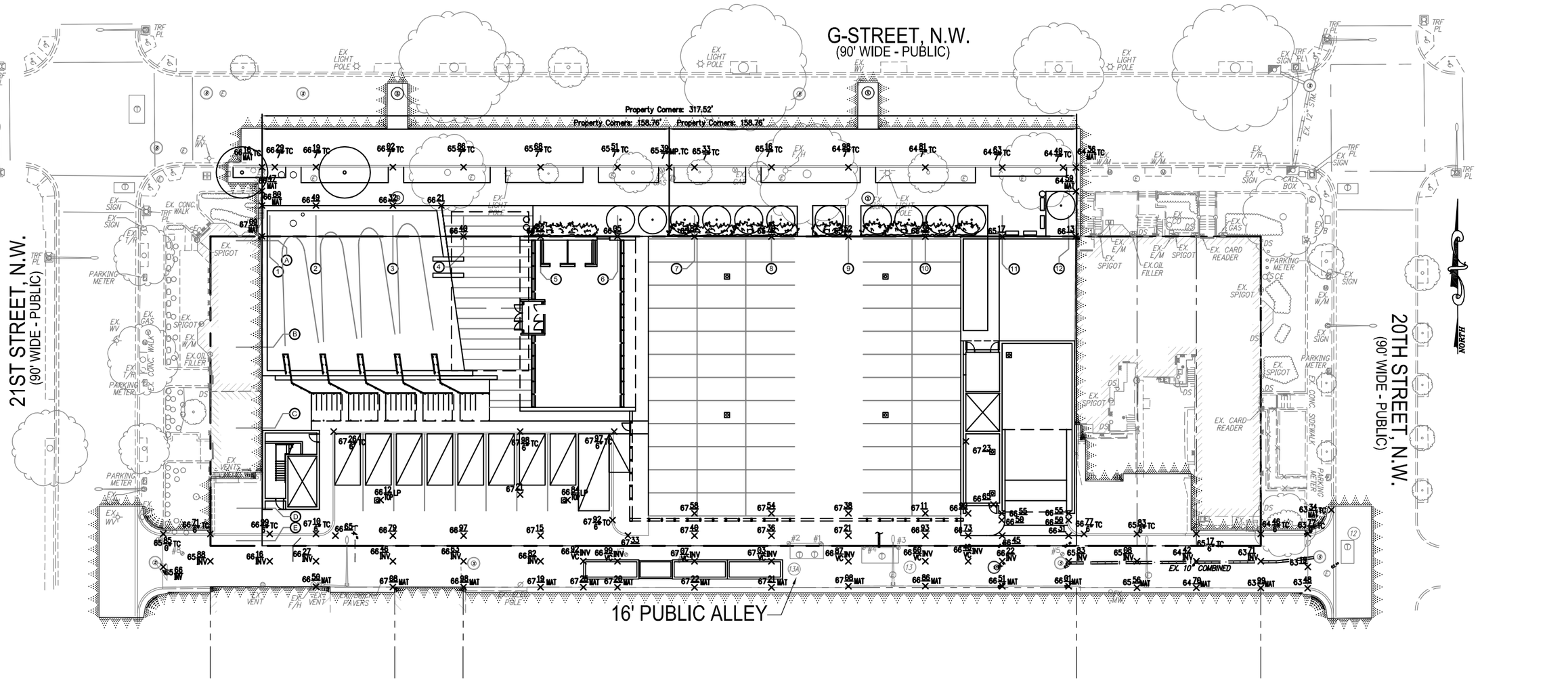
40' 30' 20' 10' 0 40' 80'

1" = 40'

THIS SHEET IS TO BE USED FOR SEDIMENTATION AND EROSION CONTROL PURPOSES ONLY !!

SEDIMENTATION AND EROSION CONTROL PLAN

C3

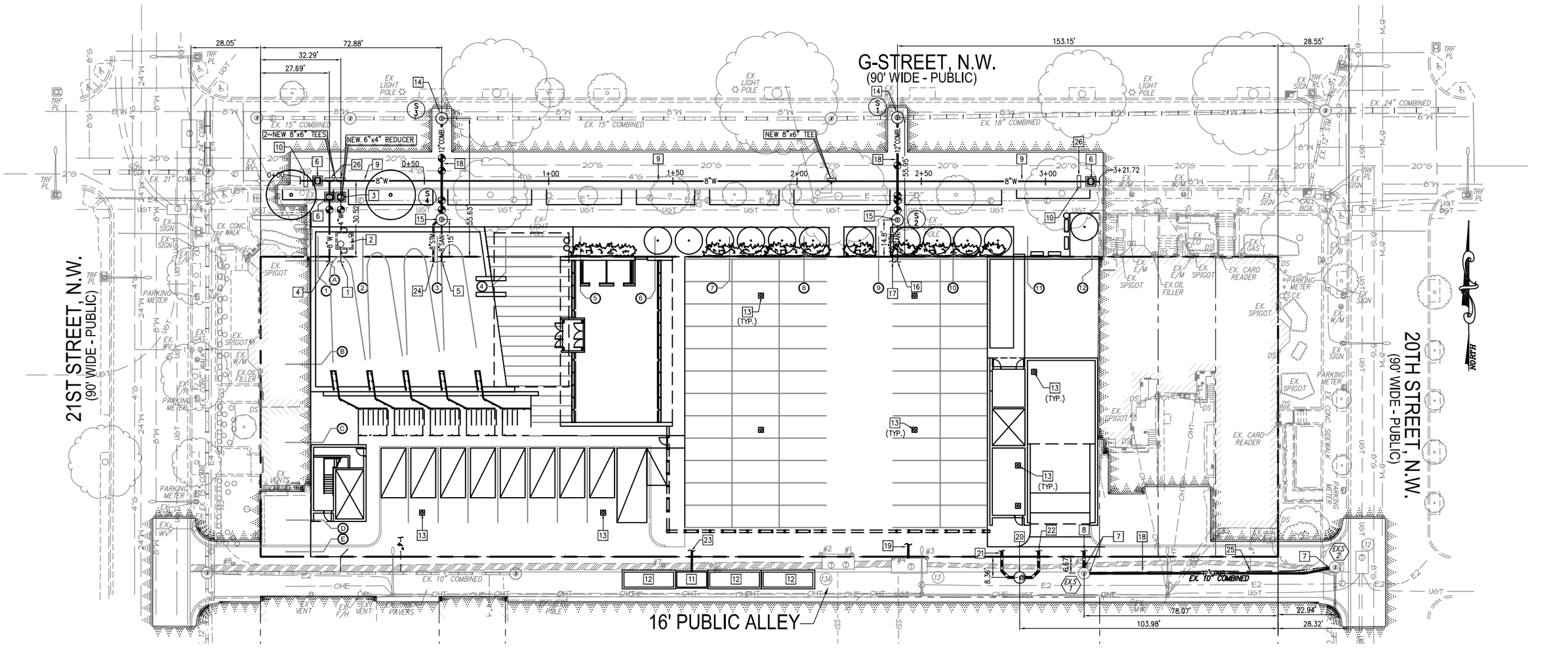


40' 30' 20' 10' 0 40' 80'

1" = 40'

SITE GRADING PLAN

C4

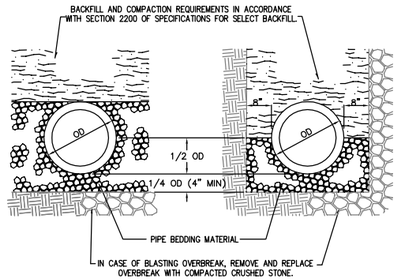


UTILITY KEYNOTES:

1. NEW 4" DIP CLASS 52 DOMESTIC WATER SERVICE LATERAL. BACKFLOW PREVENTER VALVE TO MEET ASSE-1015.
2. NEW 72"x72"x72" I.D. METER VAULT PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING DG-23.01.
3. NEW 6" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-20.01.
4. NEW 8" DIP CLASS 52 FIRE SERVICE LATERAL. BACKFLOW PREVENTER VALVE TO MEET ASSE-1048.
5. NEW 8" PVC SCH-40 SANITARY SEWER LATERAL.
6. NEW 8" WATER VALVE WITH 4.0' CASING PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-20.01.
7. NEW CONNECTION TO EXISTING MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS.
8. NEW 12" PVC SCH 40 STORM SEWER LATERAL OVERFLOW PIPE.
9. NEW 8" DIP CLASS 52 MECHANICAL JOINT PIPE WATER MAIN ON G-STREET, NW PER DC/WATER STANDARDS AND SPECIFICATIONS. RE-CONNECT ANY EXISTING WATER SERVICE TO THE NEW MAIN PER DC/WATER STANDARDS AND SPECIFICATIONS.
10. NEW IN-LINE THRUST BLOCK PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING W-40.02.
11. NEW 6'x12' I.D. BUS HOLE VAULT. COORDINATE REQUIREMENTS WITH PEPCO. REFER TO ELECTRICAL AND RICHTER AND ASSOCIATES DRAWINGS FOR DETAILS.
12. NEW 6'x20' I.D. TRANSFORMER VAULT. COORDINATE REQUIREMENTS WITH PEPCO. REFER TO ELECTRICAL AND RICHTER AND ASSOCIATES DRAWINGS FOR DETAILS.
13. NEW AREA DRAINS. SEE PLUMBING DRAWINGS FOR DETAILS.
14. NEW 4.0' DIAMETER MANHOLE WITH DOGHOUSE BASE PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING S-20.11.
15. NEW 4.0' DIAMETER CLEANOUT MANHOLE PER DC/WATER STANDARDS AND SPECIFICATIONS. REFER TO DC/WATER STANDARD DRAWING S-20.01.
16. NEW 6" PVC SCH-40 SANITARY SEWER LATERAL.
17. NEW 6" PVC SCH-40 STORM SEWER LATERAL.
18. NEW 12" PVC SCH-40 COMBINED SEWER.
19. NEW 3~4" TELEPHONE CONDUIT TO EXISTING STRUCTURE 13 ISS MANHOLE.
20. NEW STC 450i PRECAST CONCRETE STORMCEPTOR. REFER TO SHEET C1.11 STORMWATER MANAGEMENT PLAN FOR DETAILS.
21. NEW 12" PVC-SCH 40 STORM LATERAL OUTFLOW PIPE TO STORMCEPTOR.
22. NEW 12" PVC-SCH 40 STORM LATERAL INFLOW PIPE TO CISTERN. REFER TO PLUMBING DRAWING FOR DETAILS OF CISTERN INSIDE THE BUILDING.
23. NEW ELECTRICAL DUCTBANK TO ELECTRICAL ROOM. REFER TO ELECTRICAL AND RICHTER AND ASSOCIATES DRAWINGS FOR DETAILS.
24. NEW 8" PVC-SCH 40 STORM SEWER LATERAL.
25. RE-CONNECT EXISTING 4" LATERAL FROM THE EXISTING TOWNHOUSE PER DC/WATER STANDARDS AND SPECIFICATIONS.
26. NEW CONCRETE THRUST BLOCK PER DC/WASA STANDARDS AND SPECIFICATIONS. REFER TO DC/WASA STANDARD DRAWING W-40.01.

40' 30' 20' 10' 0 40' 80'

1" = 40'

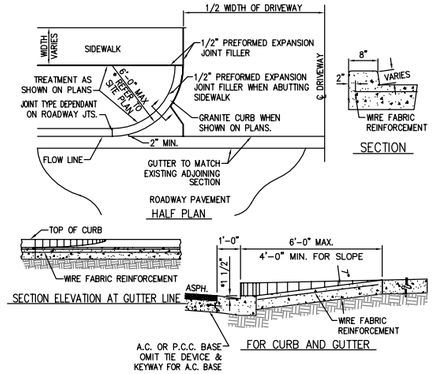


BACKFILL AT CROWN
(PIPE BEDDING FOR TRENCH WIDTH EXCEEDING WIDTH SPECIFIED)

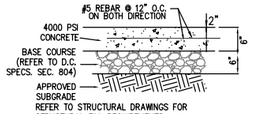
BACKFILL AT SPRINGLINE
(PIPE BEDDING FOR TRENCH WIDTH WITHIN WIDTH SPECIFIED)

TRENCHING METHODS MUST BE IN COMPLIANCE WITH OSHA REQUIREMENTS.
THE PIPE SHALL BE BEDDED IN CAREFULLY COMPACTED PIPE BEDDING MATERIAL PLACED ON A FLAT TRENCH BOTTOM. THE PIPE BEDDING MATERIAL SHALL HAVE A MINIMUM HORIZONTAL THICKNESS OF ONE-FOURTH THE OUTSIDE PIPE DIAMETER (8" MINIMUM) AND SHALL EXTEND VERTICALLY IN ACCORDANCE WITH SECTION SHOWN. IF THE MAXIMUM WIDTH OF THE TRENCH AT THE TOP OF THE PIPE EXCEEDS THOSE SPECIFIED, PIPE BEDDING MATERIAL WILL BE BROUGHT TO THE TOP OF THE PIPE FOR THE FULL WIDTH OF THE TRENCH. THE REMAINDER OF THE SIDE FILLS AND OVER THE TOP OF THE PIPE SHALL BE FILLED WITH SELECT BACKFILL MATERIAL. SHOULD THE CONTRACTOR ELECT TO USE LARGER STONE TO CARRY THE WATER, THE LARGER STONE IS TO BE PLACED BENEATH THE SPECIFIED AMOUNT OF PIPE BEDDING MATERIAL. THE LARGER STONE IS NOT IN ANY WAY TO AFFECT THE AMOUNT OF PIPE BEDDING TO BE USED.

TYPICAL TRENCH SECTIONS
(NOT TO SCALE)



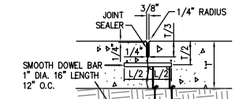
TYPICAL DRIVEWAY ENTRANCE
(NOT TO SCALE)



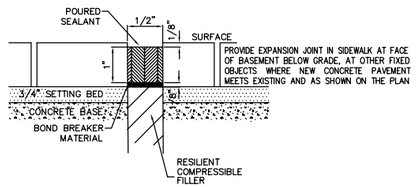
REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL FILL REQUIREMENTS.

NOTE:
1. REFER TO SITE PLAN FOR JOINT LOCATIONS
2. PROVIDE EXPANSION JOINTS ALONG FACE OF BUILDINGS, WHERE NEW CONCRETE PAVEMENT MEETS EXISTING AND AS SHOWN ON THE SITE PLAN
2. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECS FOR HEAT TRACE DETAILS.

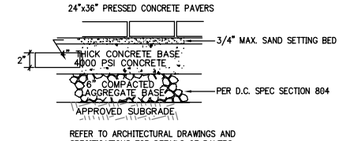
TYPICAL CONCRETE PAVEMENT DETAIL FOR DRIVEWAY ENTRANCE AND ALLEY PAVEMENT
(NOT TO SCALE)



CONTRACTION JOINT WITH LOAD TRANSFER FOR CONCRETE DRIVEWAY APRON AND ALLEY PAVEMENT
(NOT TO SCALE)



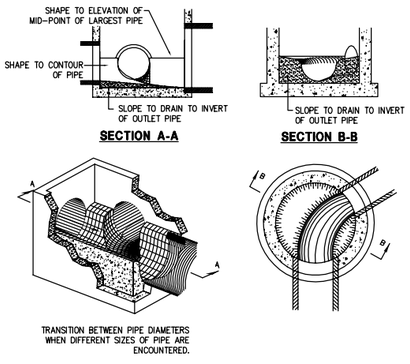
SIDEWALK EXPANSION JOINT DETAIL
(NOT TO SCALE)



REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILS OF PAVERS AND SETTING BED.

NOTE:

CONCRETE PAVERS ON SUBGRADE MATERIAL
(NOT TO SCALE)



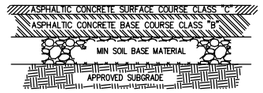
NOTES:

SHAPING OF MANHOLES AND INLET INVERTS IN ACCORDANCE WITH THIS DRAWING IS TO APPLY TO THOSE STRUCTURES SPECIFIED ON PLANS OR WHERE INVERT OF PIPE IS ABOVE INVERT OF STRUCTURE.

MANHOLE OR DROP INLET IS TO BE FORMED AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARD OR SPECIAL DRAWING. THE INVERT SHAPING AS DETAILED HEREON IS TO CONSIST OF A PORTLAND CEMENT CONCRETE MIX CONFORMING TO CLASS A3 OR CLASS C1, EXCEPT THAT 25% OF COARSE AGGREGATE MAY BE UP TO 4" DIAMETER AND CONSIST OF STONE, BROKEN BRICK, BROKEN CONCRETE, OR BROKEN CONCRETE BLOCK. THE SURFACE SHALL BE LEFT SMOOTH BY MEANS OF HAND TROWELLING. NONE OF THE COARSE AGGREGATE SHALL REMAIN EXPOSED.

DETAILS OF INVERT SHAPING AS SHOWN HEREON ARE FOR EXAMPLE PURPOSES ONLY. EACH MANHOLE OR DROP INLET IS TO BE SHAPED INDIVIDUALLY TO BEST FIT THE PARTICULAR INLET AND OUTLET CONFIGURATION AND FLOW LINES.

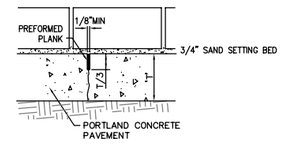
MANHOLE SHAPING METHOD
(NOT TO SCALE)



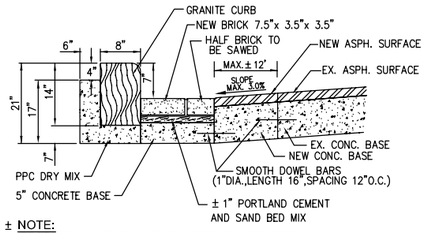
NOTE:
ASPHALT AND SOIL BASE MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS AND TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES LATEST EDITION AND SUPPLEMENTS.

RECOMMENDED PAVEMENT SECTIONS	
RECOMMENDED PAVEMENT SECTIONS	
BITUMINOUS CONCRETE SURFACE COURSE	1.5
BITUMINOUS CONCRETE BASE COURSE	2.5
SOIL BASE MATERIALS	8.0

NEW ASPHALT PAVEMENT
(NOT TO SCALE)

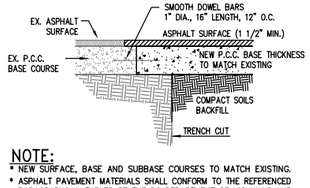


SIDEWALK CONTRACTION JOINT
(NOT TO SCALE)



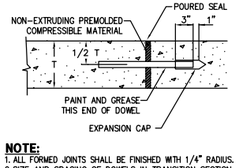
± NOTE:
1. NEW SURFACE, BASE AND SUBBASE COURSES TO MATCH EXISTING.
2. ASPHALT PAVEMENT MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS & TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.

GRANITE CURB & BRICK GUTTER DETAIL
(NOT TO SCALE)



NOTE:
* NEW SURFACE, BASE AND SUBBASE COURSES TO MATCH EXISTING.
* ASPHALT PAVEMENT MATERIALS SHALL CONFORM TO THE REFERENCED PARAGRAPHS & TABLES OF THE DC DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARDS & SPECIFICATIONS FOR HIGHWAYS & STRUCTURES LATEST EDITION & SUPPLEMENTS.

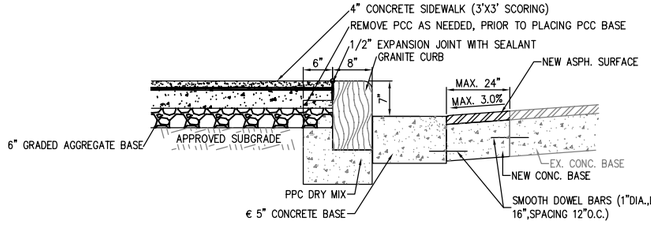
PAVEMENT REPAIR
(NOT TO SCALE)



NOTE:
1. ALL FORMED JOINTS SHALL BE FINISHED WITH 1/4" RADIUS.
2. SIZE AND SPACING OF DOWELS IN TRANSITION SECTION SHALL BE GOVERNED BT THICKEST EDGE.

THICKNESS OF SLAB	DOWELS		
	DIAMETER	LENGTH	SPACING
	1"	16"	12"

DOWELED TRANSVERSE EXPANSION JOINT FOR CONCRETE DRIVEWAY APRON AND ALLEY PAVEMENT
(NOT TO SCALE)

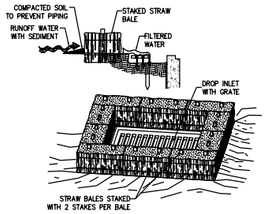


NOTE:
GRANITE CURB:
1. CONDITIONS AT BACK OF CURB VARY AND ARE AS SHOWN ON THE CONTRACT PLANS.
2. PCC DRY MIX SHALL BE PER DDOT STANDARD SPECIFICATIONS, SECTION 801. IT SHALL MAINTAIN WTHE SAME TIME LIMITS AS PCC AND SHALL BE WATERED DOWN AFTER SETTING OF GRANITE CURB.
3. THE MINIMUM DEPTH TO CONCAVE SURFACE ON ROUGH FINISH SHALL BE 10 IN.
4. GRANITE CURBS ARE SHOWN WITH A COMPOSITE PAVEMENT SECTION.
5. *LOW SIDE – 1 IN. PER FT. TOWARD CURB
*HIGH SIDE – 5/8 IN. PER FT. AWAY FROM CURB
6. A 6 IN. MIN. LAYER OF GRADED AGGREGATE BASE SHALL BE PLACED BENEATH THE ROADWAY AND CURB AND GUTTER AND IS NOT SHOWN FOR CLARITY.

PAVER SIDEWALK:
1. USE TRI-SECTED PATTERN. STARTING PERPENDICULAR AT CURB AND WORKING TOWARD BUILDING LINE.
2. PAVING BLOCKS SHALL BE CUT TO FIT AROUND MANHOLES, VAULTS, CATCH BASINS, CURBS, RAMPS, LIGHT POLES, KIOSKS AND FLAG POLES.
3. POURED CONCRETE SQUARE OR RECTANGULAR COLLARS AROUND SIDEWALK INTERRUPTIONS, USING AGGREGATE SIZE AND COLOR PER THE MANUFACTURER OF THE PRESSED CONCRETE PAVING BLOCKS. MAY BE USED SUBJECT TO APPROVAL BY THE ENGINEER.
4. USE PERPENDICULAR INTERSECTING PAVING PATTERN AT CORNERS.
5. PEPCO WILL FURNISH NEW STEEL VAULT COVERS IN LIEU OF THE EXISTING COVERS FILLED WITH CONCRETE. ONLY REMOVABLE TYPE VAULT COVERS WILL BE REPLACED. CONTRACTOR WILL INLAY PRESSED CONCRETE BLOCK PAVERS ON EPOXY MORTAR BED. JOINTS SHALL BE CONTINUOUS WITH SURROUNDING SIDEWALK PAVERS AS MUCH AS PRACTICABLE. LEVEL OF PAVERS SHALL BE FLUSH WITH ADJACENT GRADE.
6. CONTRACTOR SHALL NOTIFY PEPCO 3 WEEKS IN ADVANCE BEFORE PEPCO VAULT COVERS ARE READY TO BE REPLACED AND PAVED. ONLY PEPCO WILL REMOVE AND INSTALL THE STEEL AND VAULT COVERS.

GRANITE CURB & CONCRETE GUTTER DETAIL
(NOT TO SCALE)

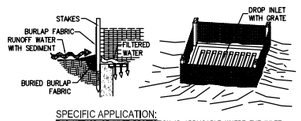
PERKINS + WILL | shalom baranes associates architects



SPECIFIC APPLICATION:
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

STRAW BALE DROP INLET SEDIMENT FILTER

(NOT TO SCALE)



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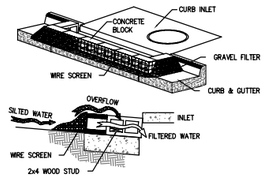
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

BURLAP DROP INLET SEDIMENT FILTER

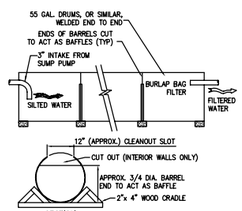
(NOT TO SCALE)



CURB INLET SEDIMENT FILTER

(NOT TO SCALE)

1. TWO CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING.
2. A 2 INCH BY 4 INCH STUD SHALL BE CUT AND PLACED THROUGH THE OUTER HOLES OF EACH SPACER BLOCK TO HELP KEEP THE FRONT BLOCKS IN PLACE.
3. CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ACROSS THE FRONT OF THE INLET AND ABUTTING THE SPACER BLOCKS AS ILLUSTRATED.
4. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEEPING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. CHICKEN WIRE OR HARDWARE CLOTH WITH 1/2-INCH OPENINGS SHALL BE USED.
5. TWO TO THREE INCH STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BARRIER AS SHOWN.
6. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.



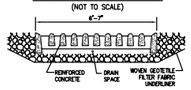
CONSTRUCTION NOTES:
1. THE STRUCTURE MAY BE CONSTRUCTED WITH STEEL DRUMS, STURDY WOOD OR OTHER MATERIAL SUITABLE FOR HANDLING THE PRESSURE EXERTED BY THE VOLUME OF THE WATER.
2. SEDIMENT TANKS WILL HAVE A MINIMUM DEPTH OF TWO FEET.
3. THE SEDIMENT TANK SHALL BE LOCATED FOR EASY CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE THE INTERFERENCE WITH CONSTRUCTION ACTIVITIES.
4. THE FOLLOWING FORMULA SHALL BE USED TO DETERMINE THE STORAGE VOLUME OF THE SEDIMENT TANK.
   PUMP DISCHARGE (G.P.M.)X16=CUBIC FEET OF STORAGE REQUIRED
5. ONCE THE WATER LEVEL NEARS THE TOP OF THE TANK, THE PUMP MUST BE SHUT OFF WHILE THE TANK DRAINS AND ADDITIONAL CAPACITY IS MADE AVAILABLE.
6. THE TANK SHALL BE DESIGNED TO ALLOW FOR EMERGENCY FLOW OVER TOP OF THE TANK.
7. CLEAN-OUT OF THETANK IS REQUIRED ONCE ONE-THIRD OF THE ORIGINAL CAPACITY IS DEPLETED DUE TO SEDIMENT ACCUMULATION. THE TANK SHALL BE CLEARLY MARKED SHOWING THE CLEAN-OUT POINT.

PORTABLE SEDIMENT TANK

(NOT TO SCALE)

VEHICLE WASH DETAIL

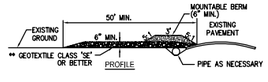
(NOT TO SCALE)

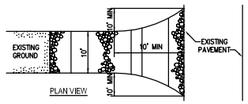


WASH RACK DETAIL

(NOT TO SCALE)

MAINTENANCE:
STABILIZED CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. CONSTRUCTION VEHICLES SHALL STOP WITH FIRST THE FRONT WHEELS, THEN THE REAR WHEELS ON THE WASH RACK IN ORDER TO BOTH SETS OF WHEELS TO BE HOSED OFF.

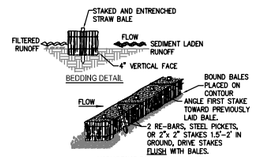




CONSTRUCTION RAMP SPECIFICATION:
1. STONE SIZE- USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
2. LENGTH- AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS- NOT LESS THEN SIX (6) INCHES.
4. WIDTH- TEN (10) FOOT MINIMUM, BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE FABRIC (FILTER CLOTH) WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. **THE PLAN APPROVAL AUTORITY MAY NOT BE REQUIRED SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING- WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

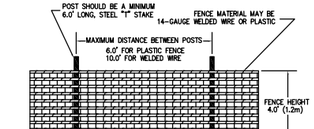
(NOT TO SCALE)



CONSTRUCTION SPECIFICATIONS:
1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THAE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

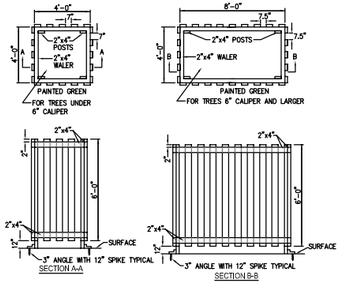
STRAW BALE DIKE

(NOT TO SCALE)



TREE PROTECTION FENCE INSTALLATION DETAIL

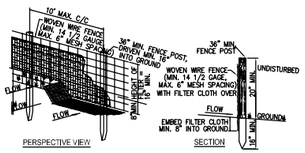
(NOT TO SCALE)



TREE PROTECTION NOTES:
1. TREES AS SHOWN ON THE PLAN TO REMAIN SHALL BE PROTECTED AS SHOWN TO PREVENT MECHANICAL INJURY. TREE PROTECTION MEASURES SHOULD BE AS CLOSE TO THE DRIP LINE OF THE TREE AS POSSIBLE AND AS SHOWN ON THE PLAN. FOR STREET TREES AT THE CURB, PROTECTION FENCING SHALL BE ERECTED AT EDGE OF PAVING.
2. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
3. NO STORAGE OF EQUIPMENT OR CONSTRUCTION MATERIALS SHALL BE ALLOWED WITHIN TREE PROTECTION FENCING.
4. HEAVEY EQUIPMENT OPERATORS WILL BE CAUTIONNED TO AVOID DAMAGE TO EXISTING TREE TRUNKS AND ROOTS DURING LAND LEVELING OPERATIONS. TUNNEL UNDER ROOT SYSTEM WHEN INSTALLING UTILITY LINES, IF POSSIBLE.
5. TREE TRUNKS AND EXPOSED ROOTS AND LIMBS DAMAGED DURING EQUIPMENT OPERATIONS WILL BE CARED FOR AS PRESCRIBED BY A FORESTER OR LICENSED TREE EXPERT.
6. THE USE OF HEAVY EQUIPMENT ON ROOT SYSTEMS OF DESIREABLE TREES MUST BE AVOIDED TO PREVENT SOIL COMPACTION. ALL CONSTRUCTION SHOULD BE KEPT OUT OF THE DRIP LINE OF PRETECTED TREES. PROTECTIVE FENCING SHALL BE UTILIZED FOR TREES BEING RETAINED AND SHALL BE LOCATED AT THE DRIP LINE AND AS SHOWN ON THE PLAN.
7. DURING THE FIRST TWO SUMMERS FOLLOWING CONSTRUCTION, IT IS DESIREABLE THAT THE TREES RECEIVE ADEQUATE AMOUNTS OF WATER.

TYPICAL TREE PROTECTION FENCING

(NOT TO SCALE)



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS:
STEEL EITHER T OR U TYPE OR 2" HARDWOOD

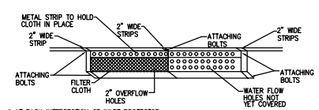
FENCE:
WOVEN WIRE, 14 1/2 GAGE 6" MAX. MESH OPENING

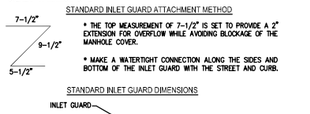
FILTER CLOTH:
FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT:
GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE

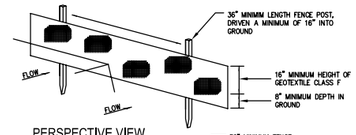
(NOT TO SCALE)



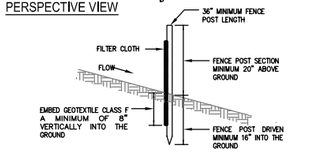


GRADE INLET GUARD

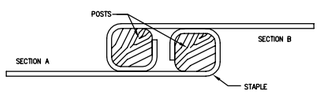
(NOT TO SCALE)



PERSPECTIVE VIEW



CROSS SECTION



TOP VIEW

JOINING TWO ADJACENT SILT FENCE SECTIONS

CONSTRUCTION SPECIFICATION:
1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 11/2"x 11/2" SQARE (MINIMUM) CUT, OR 13/4"DIAMETER (MINIMUM) ROUND AND SHALL BE OFF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHTING NOT LESS THAN 1.00 POND PER LINEAR FOOT.
2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STABLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TESILE STRENGH	50L BS/IN (MIN.)	TEST: ASTM D-4595
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: ASTM D-4595
FLOW RATE	0.3 GAL/FT2 (MAX.)	TEST: ASTM D-5141
FILTERING EFFICIENCY 75 % (MIN.)		TEST: ASTM D-5141

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STABLED TO PREVENT SEDIMENT BYPASS.
4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR 'X' OF WHEN SEDIMENT ACCUMULATION REACHED 30 THE FABRIC HEIGHT.

SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS:	SLOPE LENGTH (MAX.):	SILT FENCE LENGTH (MAX.):
FLATTER THAN 50:1	UNLIMITED	UNLIMITED
50:1 TO 10:1	125 FEET	1,000 FEET
10:1 TO 5:1	100 FEET	750 FEET
5:1 TO 3:1	60 FEET	500 FEET
3:1 TO 2:1	40 FEET	250 FEET
2:1 AND STEEPER	20 FEET	125 FEET

NOTE:
IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL REQUIRED.

SILT FENCE INSTALLATION DETAIL

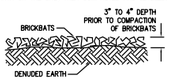
(NOT TO SCALE)

DEFINITION
TEMPORARY GROUND COVER CONSISTING OF BROKEN BRICK (1/2 PIECE OR SMALLER) PLACED OVER DENUDED EARTH.

PURPOSE
BRICKBATS PROVIDE A TEMPORARY GROUND COVER OVER DENUDED URBAN EARTH TO PREVENT THE TRANSPORTATION OF SEDIMENT FROM THE SITE.

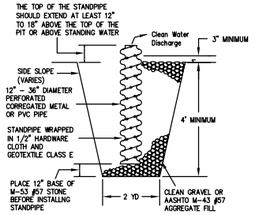
CONDITIONS WHEN PRACTICE APPLIES
BRICKBATS MAY BE USED ON ANY SITE IN NEED OF TEMPORARY GROUND COVER.

DESIGN CRITERIA
THE BRICKBATS SHALL BE PLACED TO A DEPTH OF 3 INCHES TO 4 INCHES COVERING THE DENUDED EARTH ON THE SITE, THEN COMPACTED AND LEVELED.



BRICKBAT DETAIL

(NOT TO SCALE)

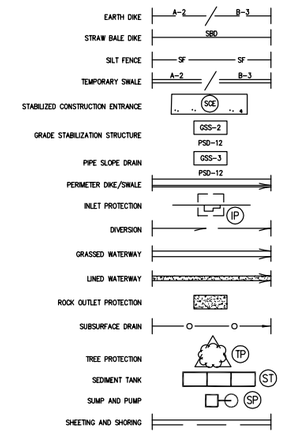


CONSTRUCTION SPECIFICATIONS:
1. PIT DIMENSIONS ARE OPTIONAL, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORREGATED OR PVC PIPE. THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE CLASS E. THE PERFORATING SHALL BE 1/2" x 6" SLITS OR 1" DIAMETER HOLES.
3. A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR #57 STONE SHOULD BE PALCED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.
4. THE STANDPIPE SHOULD EXTEND 12"-18" ABOVE THE LIP OF THE PIT OR THE RISER CREST ELEVATION (BASIN DEWATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTER CLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

SUMP PIT

(NOT TO SCALE)

LIST OF STANDARD SYMBOLS



STANDARD EROSION AND SEDIMENT CONTROL MEASURES AND SEQUENCE:
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
2. PROVIDE TEMPORARY STONE CONSTRUCTION ENTRANCE WHERE SHOWN. PROVIDE WATER SOURCE AND HOSE TO CLEAN ALL EQUIPMENT LEAVING SITE.
3. INSTALL SILT FENCE AS SHOWN.
4. NO DISTURBED AREA WILL BE DENUDED FOR MORE THAN 7 CALENDAR DAYS. INSTALL THE NECESSARY TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.
5. ALL CONSTRUCTION TO BE INSPECTED DAILY BY THE CONTRACTOR, AND ANY DAMAGED SILTATION OR EROSION CONTROL DEVICES OR MEASURES WILL BE REPAIRED AT THE CLOSE OF THE DAY.
6. ALL SILT FENCE TO BE MAINTAINED IN WORKING CONDITION.
7. STABILIZED CONSTRUCTION ENTRANCES TO BE PERIODICALLY SUPPLEMENTED WITH ADDITIONAL STONE AS NEEDED.
8. CONTROLS CAN BE REMOVED AFTER THEIR CONTRIBUTING BASINS HAVE BEEN PERMANENTLY STABILIZED, AND APPROVAL OF INSPECTOR IS OBTAINED.

SILTATION EROSION CONTROL NOTES:
1. ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR CONSTRUCTION AS PER STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE DISTRICT OF COLUMBIA. IF AN ON-SITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED.
2. ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
3. ALLEY AND / OR STREET SHALL BE SWEPT CLEAN AT ALL TIMES DURING EXCAVATION AND CONSTRUCTION.
4. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY BY THE CONTRACTOR. ANY DAMAGED DEVICE OR MEASURE WILL BE REPAIRED OR REPLACED BY THE CLOSE OF DAY OR AS DIRECTED BY THE ARCHITECT.
5. ALL VEHICLES LEAVING THE SITE SHALL EXIT THROUGH THE CONSTRUCTION ENTRANCE ONLY AND SHALL BE WASHED DOWN TO REMOVE MUD FROM TIRES BEFORE ENTERING THE STREET. CONSTRUCTION ENTRANCE TO BE MAINTAINED IN GOOD WORKING CONDITIONS.
6. ALL CATCH BASINS AND AREA DRAINS SHALL BE PROTECTED DURING EXCAVATION AND CONSTRUCTION.
7. IF ANY CATCH BASIN OR DRAIN BECOMES CLOGGED AS A RESULT OF EXCAVATION OR CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS IMMEDIATE CLEANING.
8. ALL DISTURBED AREAS WITHIN THE LIMIT OF DISTURBANCE BOUNDARY NOT SHOWN TO BE PAVED SHALL BE SEEDED OR SODDED AS PER DC SPECIFICATIONS WITHIN SEVEN DAYS OF DISTURBANCE.
9. WHEN SEDIMENT TRAP/SEDIMENT TANK HAS REACHED 67% CAPACITY, CLEAN OUT OF SAME IS REQUIRED
10. ANY STOCKPILING, REGARDLESS OF LOCATION ON SITE SHALL BE STABILIZED WITHIN 14 DAYS AND COVERED WITH PLASTIC OR CANVAS, AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT.
11. AFTER RAZE OR DEMOS, THERE IS NEED FOR GROUND COVER TO PREVENT EROSION AND SEDIMENT RUNOFF FROM OCCURRING. SUCH AS SEED, SOD, PAVING, BROCKBRACK OR MULCH, ETC.
12. AT THE COMPLETION OF CONSTRUCTION PROJECT AND AFTER THE D.C. EROSION AND SEDIMENT CONTROL INSPECTOR APPROVAL, ALL TEMPORARY SILTATION, SEDIMENTATION AND EROSION CONTROL MEASURES AND DEVICES SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE PERMANENTLY STABILIZED.