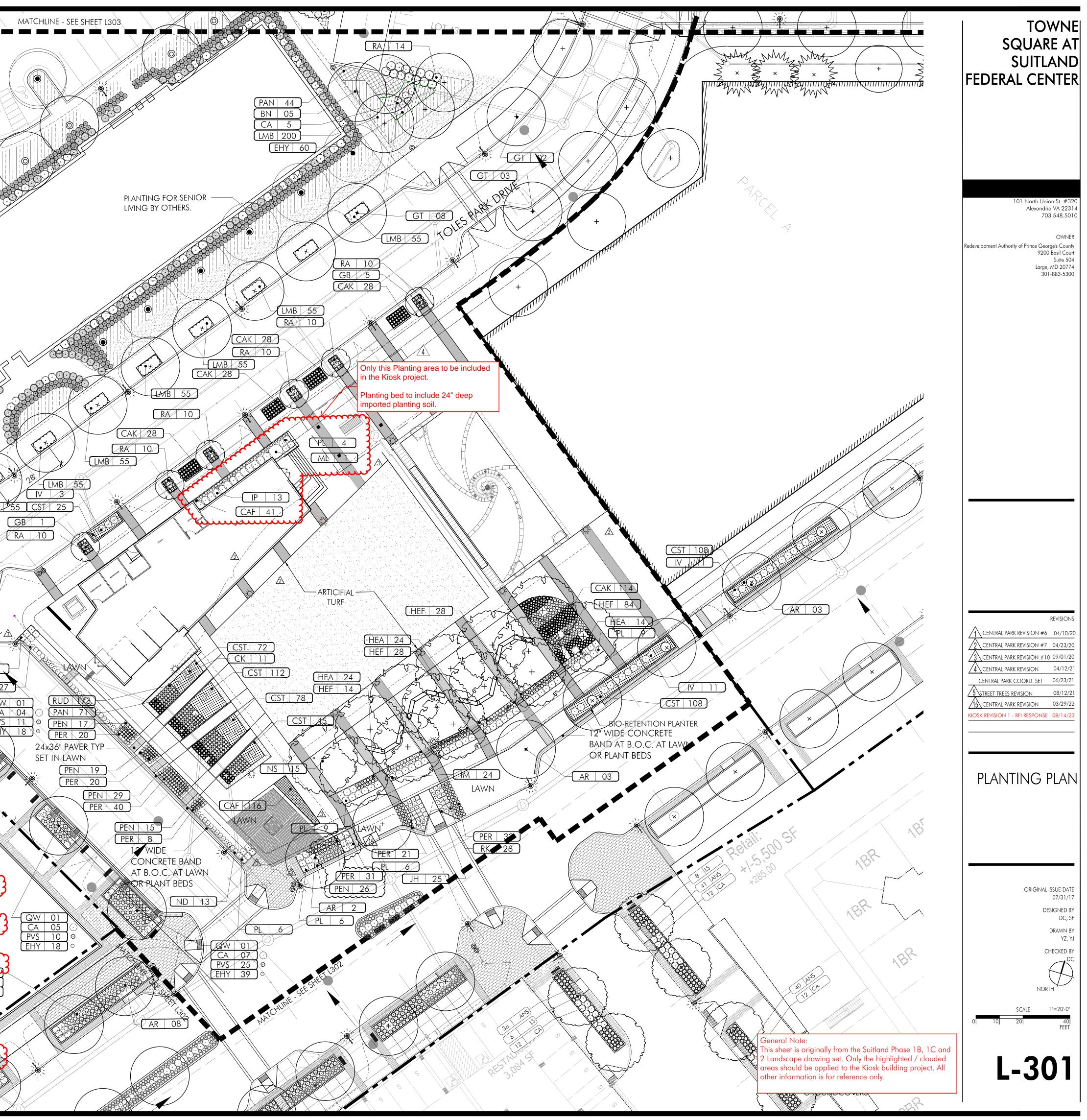
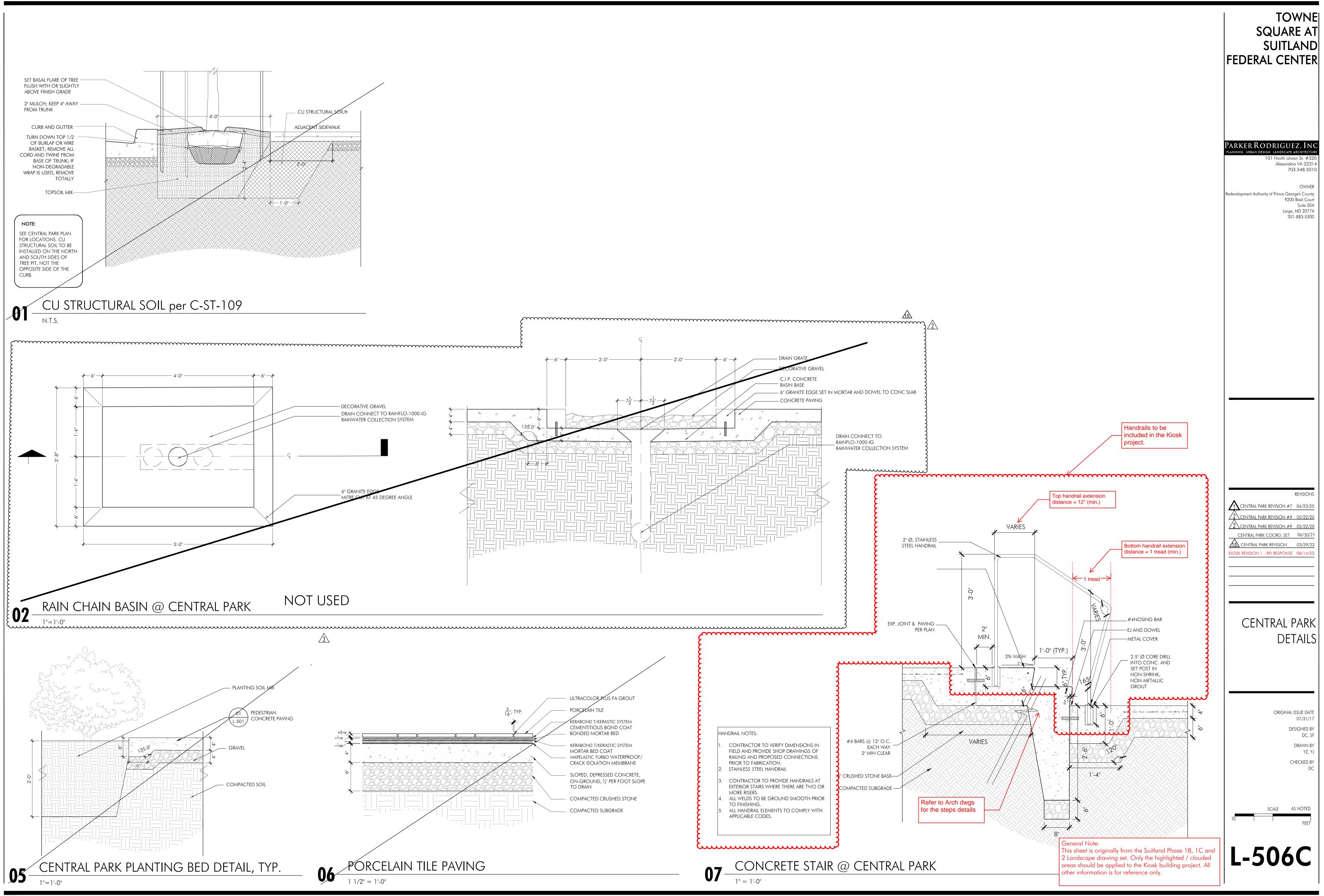
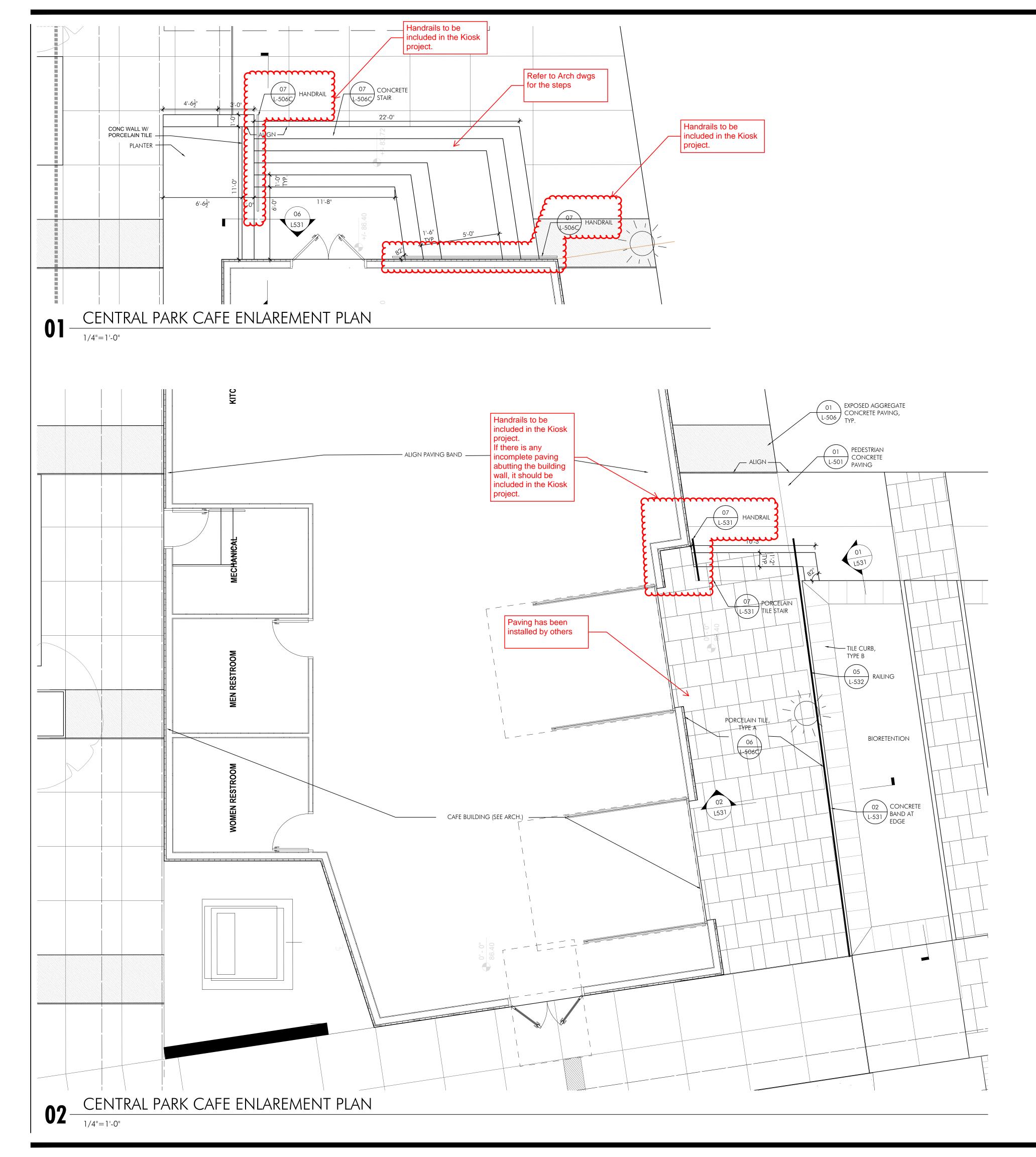
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PORCELAIN TILE PORCELAIN TILE

MATERIAL

TYPE SIZE TYPE A TYPE B

24" X 24" (AREA RATIO: 66.66%) 12" X 24" (AREA RATIO: 33.33%)

18" x 36"

COLOR BARGE GOLD

PIETRA DE BAGNOLO

FINISH

N/A

N/A

MANUF./SUPPLIER LANDMARK CERAMICS-FRONTIER 20

LANDMARK CERAMICS-FRONTIER 20

TOWNE SQUARE AT SUITLAND FEDERAL CENTER

PARKERRODRIGUEZ, INC. naing | Urben Design | Lendscope Architectur

> 01 North Union St. #320 Alexandria VA 22314 703.548.5010

OWNER Redevelopment Authority of Prince George's County

9200 Basil Court Suite 504 Large, MD 20774 301-883-5300

REVISIONS CENTRAL PARK REVISION #10 09/01/20

CENTRAL PARK COORD. SET 06/30/21 CENTRAL PARK REVISION 03/29/22 KIOSK REVISION 1 - RFI RESPONSE 08/14/23

CENTRAL PARK CAFE ENLARGEMENT PLAN

> ORIGINAL ISSUE DATE 05.01.17 DESIGNED BY DC, SF DRAWN BY YZ, YJ CHECKED BY

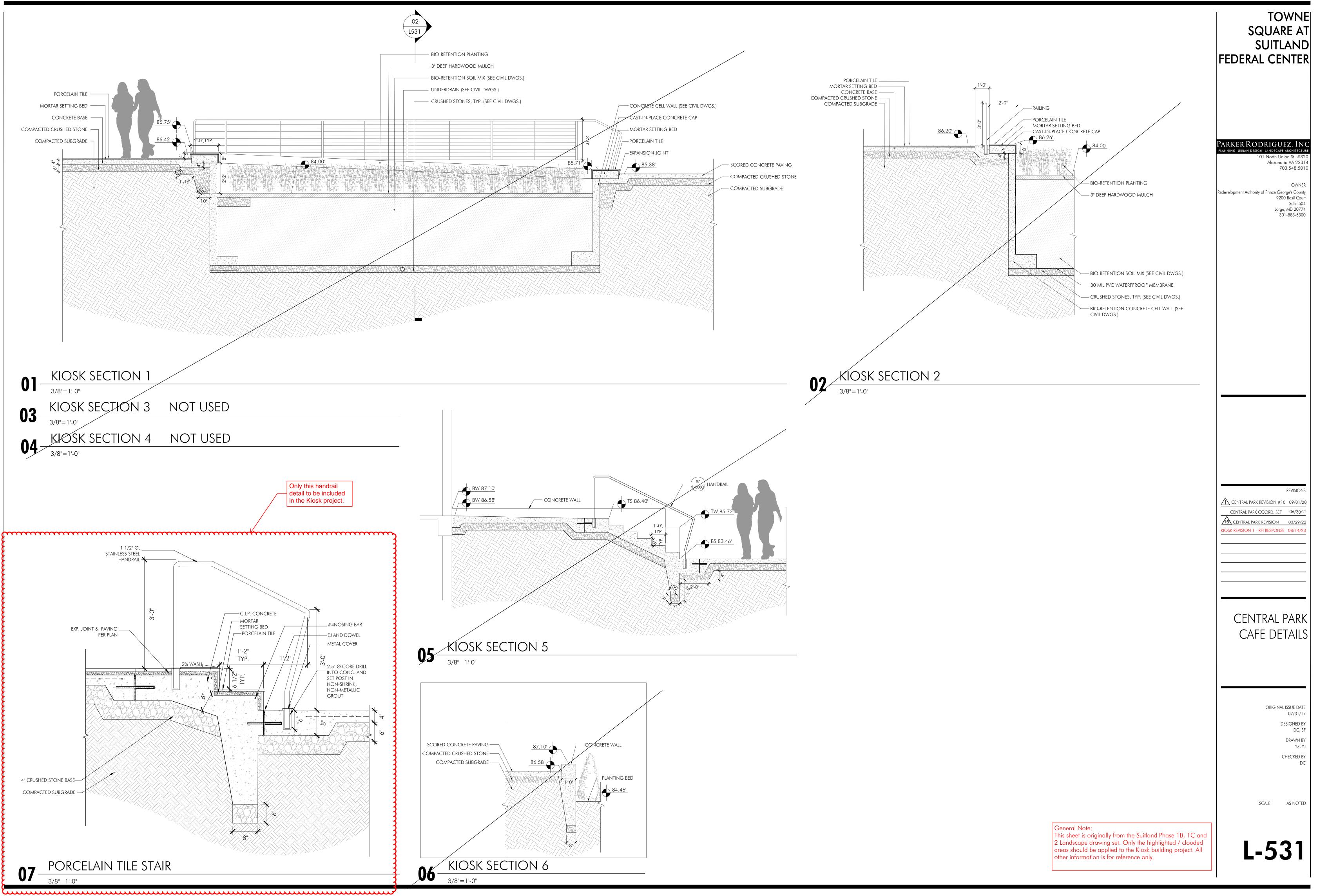
NORTH

SCALE 1/4"=1'-0"

L-530

General Note:

This sheet is originally from the Suitland Phase 1B, 1C and 2 Landscape drawing set. Only the highlighted / clouded areas should be applied to the Kiosk building project. All other information is for reference only.



SECTION 32 93 00 TREES, SHRUBS & GROUNDCOVER

PART 1 – GENERAL:

- 1.01 DESCRIPTION
 - A. This Section includes specifications for furnishing and planting of trees, shrubs, ground 1.03 SUBMITTALS cover, ornamental grasses and vines as indicated; furnishing and installation of all planting accessories; care and replacement during construction; and a one-year care and replacement period.
- 1.02 QUALITY ASSURANCE
 - A. All plants to be supplied shall be first class representatives of their normal species or varieties unless otherwise specified. All plant materials are to conform in size and grade as specified under the current edition of ANSI Z60.1 "American Standard for Nursery Stock." The current edition of "Hortus Third" shall be the authority for all plant
 - B. All plants shall be freshly dug at time of delivery and nursery grown unless otherwise specifically permitted, and shall have been growing for at least two years prior 1.04 HANDLING AND PROTECTION to award date of the contract within the state of Maryland.
 - C. All plant materials shall have normal, well developed branches and a vigorous root system. They shall be healthy, vigorous plants free from defects, decay, disfiguring roots, sunscald injuries, abrasions of the bark, plant diseases, insect pest eggs, borers, and all forms of infestations or objectionable disfigurements. Plant materials that are weak or which have been cut back from larger grades to meet certain specified requirements will be rejected.
 - Shade and flowering trees are to be symmetrically balanced according to their normal D habit of growth. Shade trees of standard variety shall have a single leader and shall be branched as indicated on the plans. Major branches shall not have V-shaped crotches capable of causing structural weakness. Trunks shall be free of unhealed branch removal wounds greater than a one inch diameter. Evergreens are to be full foliage, specimens of mature growth. Deciduous shrubs shall be well furnished with branches and have ample, well balanced root systems capable of sustaining vigorous growth. Vines and ground cover shall have been growing for at least three months in the size of container specified.
 - Prior to digging, plant materials will be inspected by the landscape architect. Plant material grown in fields or blocks which show evidence of containing any parts (seeds, rhizomes, roots) of Johnson Grass or Canada Thistle will not be accepted. An approval of material on such inspection shall not be construed as an acceptance of it. The plant materials will again be inspected at arrival on the subject site. Material arriving with broken seals, broken or loose balls, insufficient protection of roots or top, shriveled dry or insufficiently developed roots or which are weak and thin, or damaged or defective or which do not comply with the specifications will not be accepted. All container grown plants shall be well rooted, vigorous and established in the size container specified, shall have well balanced tops for the container size, and shall not be root
 - F Plant materials, represented by each shipment, invoice, or stock order shall be declared and certified free from disease of any kind. All necessary inspection certificates to the effect which are required by law for the necessary interstate or interdistrict transportation shall accompany each shipment, invoice, or order of stock.

TREES, SHRUBS & GROUNDCOVER 32 93 00 - 1

- Balled and burlapped plants and containerized plants shall be set verti-4 cally upon the bottom of the pits and the amended soil shall then be filled in around the plant balls to half the depth of the balls and tamped. The remaining burlap around the plant balls shall be loosened and spread out away from the plants, or if it is too bulky, cut away and removed. Thereafter, complete the backfilling. All rope or cord shall be completely removed from the root balls and disposed off site. When wire baskets are present, the Contractor shall bend or cut the basket so no portion extends above finished grade. Containers shall be carefully removed from potted plants prior to plant-
- Every care shall be taken during the backfilling, tamping, and watering to 6. avoid injuring the roots and to avoid air pockets. Any roots which are found to
- be bruised or broken before or during planting shall immediately be pruned to sound tissue with a clean cut. Watering shall mean full and thorough saturation of all backfill in the pits the 7.
- day the plants are planted. Water shall be applied only by an open end hose and at a very low pressure. When planted and watered, the plants shall be vertical and the ball shall have 1/8 of its height above finished grade. 8. Random root inspection will take place at the nursery and once the tree is planted.
- Major roots will be measured 4" from the trunk to assure that the major roots are within 1" of the surface. Trees found to be planted too deep or too high will be raised or lowered to an acceptable level without cost to the owner. Upon completion of planting, the outline of the planting beds shall be neatly 9.
- edged, except on lower edge of planting beds on slopes where a three inch depth shoulder of amended soil or excavated topsoil shall be placed. 10. Individual plant pits shall be furnished with a shoulder of soil placed outside
- the rim of the pits to form a saucer over the entire area of the pits. Trees on flat areas must be shouldered with amended soil or excavated soil. Trees on slopes may be shouldered with excavated soil with a minimum of two inches of amended soil placed over the excavated soil. On all slopes, the soil shall be formed into an adequate compacted dam or shoulder on the downhill side to catch and hold water and avoid erosion, and the slope on the uphill side shall be properly regraded, all as detailed on the plans and to the satisfaction of the Engineer. All disturbed slopes, shoulders, dams, or other damaged areas shall be seeded and repaired to the satisfaction of the Engineer at no cost to the Administration.

В. Supplemental Fertilizer

- Supplemental fertilizer shall be used at the discretion of the Contractor. Fertilizer packets shall be placed in the plant pits around the root balls follow-
- ing the manufacturer's written instructions.
- If and when it becomes necessary to remove and replace dead or unhealthy plants as specified under Article 3.05, Care and Replacement During Construction, care shall be exercised so as not to damage the packet when removing the dead tree or planting the replacement. Any packet which may become damaged shall be promptly removed, along with any loose fertilizer in the plant pit, and shall be replaced with a new packet.

C. Mycorrhizal Fungi

Mycorrhizal fungi and a water management gel shall be placed in tree planting pits only. Place the materials around the root balls following the manufacturer's written instructions.

32 93 00 - 6

TREES, SHRUBS & GROUNDCOVER

- All tree pruning shall conform to the current edition of the National Art G ation's "Pruning Standards for Shade Trees".
- Roots from trees shall conform to the standard root formation from that roots will be spot checked at the nursery and when planted. If roots are p or located too deep, the tree will be rejected. See spec section 3.03 A-8.

- Within thirty days of the Notice-to-Proceed, the Contractor shall submit А itemized list of sources of all plant items and shall give all necessary when inspections are made by landscape architect. The Contractor shall plant sources to a minimum; the cost of plant inspection and tagging trips the Contractor's initial source list shall be deducted from his invoices. tive samples of every shipment of plant materials shall be labeled as to g and specified size. No substitutions shall be made without the permission scape Architect.
- Provide samples of all products listed in Part 2 of this Specification Sect and visual inspection.

- A. All plant materials shall be dug immediately previous to the shipment. tions shall be taken to avoid any unnecessary injury to, or removal of, Each species or variety shall be handled and packed in the approve that plant, having regard to the soil and climatic conditions and the time that sumed in transit or delivery. All precautions that are customary in good shall be taken to insure the arrival of the plants at the destination in a good successful growth.
- All plants which are required to be balled and burlapped prior to shipm nated B&B in the itemized list of plant materials. Balled and burlappe be lifted so as to retain as many fibrous roots as possible. The burlap shall in place by wrapping of cord or wire. No imitation or artificial burlap mate used on any plant.
- Ball diameters and depths shall be in conformance with ANSI Z60.1 a C. sions given therein are the minimum which will be accepted and apply plants only. Oversized and exceptionally heavy plants are acceptable at r cost to the Administration.
- On receipt of nursery stock at the site, the Contractor shall notify the D. plant shipments shall be accompanied by an invoice, furnished to the En detailed description of the plant materials and the date of shipment.
- E Immediately following the delivery and inspection at the site, all p posed roots shall be heeled-in in moist soil and in a manner satisfactory to All plants heeled-in shall be properly maintained by the Contractor until r
- All rejected material shall be immediately removed by the Contractor. The balls of B&B plants shall, if not immediately planted after deliver G. tion, be adequately protected from heat, cold, and wind by covering until planting, in a manner appropriate to the conditions and satisfactory to The Contractor shall, in loading, unloading, or handling of plants, ex care to prevent injuries to the branches and roots of the plants. The balls of B&B plants shall be carefully preserved. Plants with exposed are being transported to and from "heel-in," being distributed in plant awaiting planting after distribution, shall have their roots protected fro

TREES, SHRUBS & GRO 32 93 00 - 2

- Mulching Material: All planting beds and pits shall be mulched with mu D al. The mulching material shall be spread to a depth of three inches over ea of all plant pits, including the saucer rim, and all planting beds. The raked to an even surface to the limits as indicated on the plans, or as o
 - Engineer. All mulch shall be applied within three days after planting. Prior to the application of mulch within a planting bed, 10 pou ureaform fertilizer per 1000 square feet shall be evenly spread

be mulched.

- Staking for Typical Planting: Typical deciduous trees shall be staked with vertical stakes. All installed within 24 hours of the day the trees are planted and as plans. Stakes shall be neat and secure, and shall evenly support true vertical line.
 - Deciduous trees less than 3 inch caliper shall have two eigh a. b. Deciduous trees between 3 inch and 4 inch caliper
- eight foot stakes. Evergreen trees 4 feet to 6 feet in height and all minor of more than six foot in height shall have two stakes 5 to 8
- Evergreen trees greater than 6 feet in height shall have to 8 feet long.
- 2. In driving stakes, the Contractor shall avoid damage to the branch particularly evergreen and low branched minor trees. All stakes s just outside the ball and to solid bearing below the pit bottom.
- Wires shall be covered with hose where in contact with trunk and be wrapped two full turns and around the stakes and secured so t firm and vertical. Tops of stakes shall be neatly trimmed to the when so required.
- Staking for Tree Pits and Planters
 - For evergreen trees in planters follow typical staking section E abov For trees surrounded by tree grates, cast eye bolts into the concrete 2. grate frame so as to not interfere with the placing of the frames of
 - vide four anchors per tree pit in 4 foot square with tree trunk in 3. Tie wire to eye bolts and pass wire through tree grate. Tie to tree
 - cal fashion. Tie white surveying tape to wire, 2 feet apart, two per wire (8 per tr
- G. General Pruning Trees and shrubs shall be pruned after inspection on the 1. rected by the landscape architect with care being taken to present appearance of the shrub or tree. Deciduous trees shall be prune tion on the site and before planting. Broken or badly bruised bra removed with a clean cut. The pruning shall be done by skille
- accordance with best horticultural practice, appropriate to the ty tree and to the special requirements of the individual shrub or tree H. Wrapping
 - Wrapping shall be performed at the discretion of the Contractor quences due to the elimination of the wrapping will be the sole r the Contractor.
 - Immediately before wrapping is installed, the trunks shall be thor with an approved insecticide for borer control applied with daubed into all cracks and crevices in the bark.

TREES, SHRUBS & GRO 32 93 00 - 7

			TOWN SQUARE A SUITLAN
rist Associ- means of "puddling," if necessary. The means employed shall be satisfactory to the En- gineer, and shall depend on weather condition and the length of time the roots must re- main out of ground.	2.09 PLANTING ACCESSORIES	1. When the landscape architect directs that any plant pit be abandoned after it is partially or fully excavated, due to conditions which were not reasonably deter-	FEDERAL CENTE
rly formed PART 2 – PRODUCTS:	A. Vertical Stakes: Vertical stakes shall be rough sawn straight grain oak or other wood approved by the Engineer, reasonably free from knot holes, bark, wane, warp, and	minable prior to excavation, the Contractor shall backfill the pit with the exca- vated soil, in well compacted in 8 inch deep layers, and finished by re-	
2.01 PLANT MATERIALS	splits, as determined by the Engineer.B. Staking Wire: Staking wire shall be either number 12 or 14 gauge, new annealed galva-	spreading the stripped topsoil to the compacted finished grade. Unsuita- ble material shall be removed from the project. The disturbed area shall	
A. Plant materials are defined as trees, shrubs, ground cover, vines, ornamental grasses, and plants of all descriptions.	nized wire. C. Wrapping Material: Wrapping material for trees shall be a waterproof duplex kraft	then be prepared, seeded and mulched or sodded, as directed and to the satis- faction of the landscape architect.	
his list of B. Collected plant material shall mean plants which are not nursery grown. No plant material shall be collected unless specifically indicated. Collected material shall be dug	paper crinkled to $33^{1}/3\%$ stretch, in strips 4 inches to 6 inches wide. D. Twine: The tying material to be used in wrapping trees shall be jute twine, not less 3.02	TYPICAL GROUND PREPARATION	
presenta- with a ball of earth and burlapped with the minimum diameter for nursery grown stock.	than two ply, as approved by the Engineer.E. Rubber Hose: Rubber hose for all trees shall be 5/8" or 3/4" black corded hose or ap-	 A. Laying Out and Starting Work 1. The Contractor shall provide the stakes and stake out the locations of all plant 	
, species, he Land- 2.03 SOIL A. Typical Amended Soil: See Planting Soil specification 02205, section 2.1.	proved equal.F. Water: All water for plants shall be obtained from fresh water sources and shall be free	pits and the outlines of all planting areas and beds as shown and detailed on the plans. No excavation or cultivation shall be started until the locations and out-	
A.Typical Amended Son: See Planting Son specification 02205, section 2.1.For testingB.Tree Pit and Planting Soil Mix: See Planting Soil specification 02205, section 2.2	from injurious chemicals and other toxic substances harmful to plant life. No water which is brackish will be permitted at any time. The Contractor shall identify to the	 lines have been approved by the landscape architect. Planting beds shall mean beds which are specified to be cultivated, edged, pre- 	Parker Rodriguez, II
2.04 ORGANIC COMPOST A. Organic compost shall be composted leaves as prepared by the Maryland Envi-	landscape architect all sources of water prior to use. The Contractor shall not use any water from any source which is disapproved by the landscape architect.	pared, and finished as specified. Individual pits shall be excavated for each plant within planting beds.	planning urban design landscape archite 101 North Union St. #
al precau- is roots.	G. Insecticide: A landscape architect - approved chemical which will provide protec- tion against pests.	3. Planting beds shall have all existing vegetation removed to the limits indicat- ed on the plans. These planting bed areas are then to receive two inches of or-	Alexandria VA 22 703.548.5
anner for 2.05 UREAFORM FERTILIZER ll be con- A. Shall be 38-0-0 (ureaform). Ureaform fertilizer shall be commercial grade con-	PART 3 – EXECUTION:	ganic compost spread upon their surfaces, followed by rototilling to a depth of six inches. The beds shall then be raked to create uniform surfaces acceptable to	
e practice forming to all State and Federal regulations and the Standards of the Association of Offi- cial Analytical Chemists.	3.01 GENERAL	the Landscape Architect prior to either planting or mulching operations.4. Rocks greater than 1-1/2 inches in any dimension, debris, roots and root mats,	OW Redevelopment Authority of Prince George's Co
	A. Planting Season	and weeds shall be removed from the site after raking.B.Excavation for Planting:	9200 Basil Co Suite
ants shall A. The fertilizer shall be a slow release type contained in a perforated polyethylene bag	1. All plant material shall be planted according to the following planting season schedule:	1. All pits shall be excavated as indicated on the plans; the bottoms of pits shall be horizontal. If augers or backhoes are used for excavation, the sides of the pits	Large, MD 207 301-883-53
rmly held with micropore holes for controlled feeding. Each bag shall contain four ounces of water soluble fertilizer analysis 16-8-16 minimum per unit to be effective for approximately eight years.	Deciduous Material: March 1 to June 1 October 1 to December 15	shall be scarified by a means acceptable to the Engineer.All plant pits shall be excavated to two times the root ball diameter.	
ne dimen- 1. Minimum guaranteed analysis: 16-8-16	Evergreen Material: March 15 to May 15 August 31 to November 15	3. Planting pit diameters may exceed the minimum diameters indicated at no ad- ditional cost.	
e nursery 2. Total Nitrogen (N): 16% comprised of 9% Ammonical Nitrogen (NH3PO4) and 7% Nitrate Nitrogen (NO3N) acrease in 7% Nitrate Nitrogen (NO3N) 3 Available Phosphoric Acid (P2O5): 8% from Ammonium Phosphote (NH4PO4))	Ornamental Grasses March 1 to May 15 September 15 to November 1	4. The Contractor shall use amended soil for backfilling plant pits. Shrubs which are located within planting beds do not require additional amended soil for back-	
3.Available Phosphoric Acid (P2O5): 8% from Ammonium Phosphate (NH4PO4))heer. All4.Soluble Potash (K2O): 16% from Potassium Chloride (KCL)Soluble Potash (K2O): 16% from Potassium Chloride (KCL)	2. The periods above may be extended or reduced according to weather and soil conditions at the time and at the discretion of the Landscape Architect. The	filling.5. Plant pits shall be backfilled with the amended soil within twenty-four hours	
er, giving 5. Potential Acidity equivalent to 850 lbs. Calcium Carbonate (CaCO3) per ton.	Contractor shall use his best judgment when scheduling the planting of decidu- ous and evergreen plant material, either B&B or containerized. Preparations for	of excavation.	
with ex- Engineer. 2.07 MYCORRHIZAL FUNGI A. Shall be live beneficial mycorrhizal fungi formulated for the inoculation of transplanted trees,	planting may begin earlier than the specified seasons, provided the staking of 3.03 plant locations has been approved.	PLANTING A. General	
including a water management gel. B. Shall be "DIEHARD" as provided by Horticultural Alliance, inc. or approved equal.	 B. Subsurface Conditions 1. When utility lines are encountered or other subsurface conditions in plant pits are 	1. No plants shall be planted until they have been inspected as specified under Article 1.02. All seals and tags shall remain intact unless otherwise directed by	
nd inspec- noved for 2.08 MULCHING MATERIAL FOR PLANTING	otherwise unsuitable for the particular varieties of plants to be planted, as de- termined by the Engineer, he will direct that the plants be relocated in satisfacto-	the landscape architect.2. Planting shall be in conformance with the planting details included in the Con-	
Engineer. A. Mulching material shall be shredded bark from hardwood trees which has been milled and screened to a maximum 2 inch particle size. When placed, the mulch shall provide	ry locations. 2. Test Pits: Test Pits shall be excavated, when directed by the Engineer, and	tract Documents. All root balls shall be placed on undisturbed soil at the bottom of the pit	
a uniform texture. The shredded hardwood bark shall not have been subjected to any conditions that would shorten its life or lose any of its value as a mulch. Mulch-	shall be a size necessary to locate and identify existing utility facilities or other obstructions.	3. All planting pits shall be deep enough to assure that 1/8 of the ball height is above the existing grade. Any loose soil at the bottom of the pit shall be com-	
beds, or ing material shall be free from leaves, twigs, wood shavings, sawdust, toxic substances, and any foreign materials.	C. Backfilling and Seeding Abandoned Planting Pits	pacted by hand or with the bucket of a backhoe. Compaction shall be sufficient to support the plant without future settlement.	
COVER 32 93 00 - 3 TREES, SHRUBS & GROUNDCOVER	32 93 00 - 4 TREES, SHRUBS & GROUNDCOVER	32 93 00 - 5 TREES, SHRUBS & GROUNDCOVER	
ng materi- entire ar- h shall be ted by the3.The wrapping shall be tied at places including the bottom, middle, and t with not more than two feet intervals between ties. The wrapping shall done before staking, but not before the condition of the tree trunks have be inspected and approved by the Engineer. Wrapping material shall be maintain in place until final acceptance of the Contract.	made, mulching material shall be replaced to its original specified depth at no additional cost to the Administration. 3.06 PARTIAL ACCEPTANCE	Note: Contractor to provide 1 year plant materials replacement warranty; starting from the substantial completion and acceptance by the owner and landscape architect.	
the area to 3.04 CLEAN-UP AFTER PLANTING A. During the course of planting, excess and waste material shall be continuously a	A. To be partially acceptable, each new planting shall be true to name and size, and in a healthy, thriving condition. Each plant pit or bed shall be properly filled and mulched,		
es shall be promptly removed, the turf areas kept clear, and all reasonable precautions taken avoid damage to existing structures plants and grass. When planting in an area h	o		
led on the rees to the waste materials shall be cleaned up and removed from the property. Existing turf are	d A. A ONE-YEAR care and replacement period shall commence after all plant		
t stakes. which have been injured by the work shall be regraded and seeded or sodded, a the entire area, when completed, shall be neat and clean to the satisfaction of the English	d 3.06.		REVISIO
neer.	¹⁻ B. The one-year care and replacement period will require the Contractor to properly and adequately care for all plant material from partial acceptance through final acceptance as specified in Article 3.08. This work will include weeding as specified in Paragraph		KIOSK REVISION 1 - RFI RESPONSE 08/14
accurate3.05CARE AND REPLACEMENT DURING CONSTRUCTIONlong.A.The care and replacement of planting shall begin immediately after each plant item	3.05.D.		
satisfactorily completed as specified under Article 3.03, Planting, and shall contin during the entire life of the Contract During such time, the Contractor shall do we	^{le} placement plants, shall be true to name and color and shall be in a healthy, thriving		
the trees, be drivenutility in contractor shall do we which is necessary to establish and keep the plants in a healthy, thriving condition.B.B.	meet these requirements shall be removed and replaced without additional payment. All		
ches shall Contractor shall manually apply water to all plant material, in the following quantities of water for each man	the original plants.		
ree is heldwatering are as follows:per height1.Deciduous trees20 gallons per pit	portant that care and replacement operations be vigorously prosecuted until comple-		
1.Decladous trees2.0 gations per pit2.Evergreen trees15 gallons per pit3.Shrubs2.5 gallons per pit	tion, as the failure to complete this work within the designated time limits can result in unsatisfactory plant establishment and unsatisfactory future performance of the plants.		
w the tree 4. Ornamental Grasses 40 gallons per 100 square feet 50 gallons per 100 square feet	E. Thirty days prior to the end of the one-year care and replacement period, the Con- tractor shall notify the landscape architect in writing when, in the Contractor's opinion,		
ates. Pro- 6. Vines 1 gallon per pit middle. All plant pits and beds not serviced by the irrigation system shall be watered manual	all work has been satisfactorily completed and the final cleaning-up performed.F. The Contractor shall remove all stakes, wires, hose, and plastic seals from all plant		
An prant pits and beds not serviced by the infigation system shan be watered manual throughout the life of the Contract, in the quantities identified above. C. The Contractor shall monitor the water needs of all plants throughout the life of t	disposed off site to the satisfaction of the landscape architect		KIOS
Contract. When the Contractor feels manual watering is necessary, the Engineer shall notified for his concurrence and approval. All manual watering shall be accomplish	3.08 FINAL ACCEPTANCE		PLANTIN
nd as di- ne natural notified for his concurrence and approval. All manual watering shall be accomplish using an open end hose. Water shall be applied at a low water pressure directly to ea plant pit allowing water to be absorbed into the plant pit soil until saturated but witho	h ance with the requirements of Articles 3.05. 3.06, and 3.07. If the landscape work is		SPEC
er inspec- s shall be plant pit, allowing water to be absorbed into the plant pit soil until saturated, but without runoff.	not acceptable to the Landscape Architect, the Contractor shall replace the re- jected work and continue specified maintenance until reinspected by the Landscape Ar-		
sonnel in branch or D. All plants, plant saucers, and all planting beds, including those on steep slopes, shall weeded of all weeds, vines, and grasses, at three to four week intervals during the gro	chitect and found to be acceptable.		
Each weeding shall be completed within five working days of the day on which weedi	g A The Contractor shall be responsible for replacing any plant material stolen or vandal-		
ny conse- sibility of was designated to begin. The Contractor may request in writing the use of herbicide approved by the Engineer, for the control of weeds and grasses. The Contractor sh	s, ized before the Partial Acceptance inspection is held with no additional cost. Any live		
E. All dead or unhealthy plants shall be promptly removed from the project; if this occu	rs placed by the Contractor and paid for at the unit price for the item.		ORIGINAL ISSUE D
brush and during the planting season, these plants shall be replaced at once; if between planti seasons, they shall be replaced within thirty days of the start of the next proper planti	g END OF SECTION		07/31
season. Plants that have sizable die-back beyond the normal pruning limit, as deter	r-		DESIGNED
COVER 32 93 00 - 8 TREES, SHRUBS & GROUNDCOVE			DRAWI
	K32 93 00 - 9TREES, SHRUBS & GROUNDCOVER		Y
			CHECKE
			SCALE AS NC
		General Note:	
		This sheet is created based on the Suitland Phase 1B, 1C and 2 Specification, and to be applied to the Kiosk	

This sheet is created based on the Suifland Phase TB, TC and 2 Specification, and to be applied to the Kiosk building project.

SECTION 32 91 10 PLANTING SOIL

PART 1 – GENERAL:

1.1 DESCRIPTION

- A. This section includes planting soils for trees, shrubs, groundcovers and lawn.
- 1.2 REFERENCES AND STANDARDS A. The following references and standards are used:
 - ASTM: American Society of Testing Materials
 - USDA: United States Department of Agriculture
 - 3. AASHTO: American Association of State Highway and Transportation Officials

1.3 SUBMITTALS

- A. Contractor to submit samples and soil tests for topsoil in accordance with Division 1 and the following. No material shall be ordered until the required samples, certificates, manufacturer's literature, and test results have been approved by the Engineer. Material delivered on site shall match the samples. Location of source of soil shall be labeled for each sample.
- B. Soil Testing shall be carried out by an approved Maryland soil testing laboratory. 1. The laboratory shall have a minimum 5 years' experience with the tests protocols of
- the USDA. 2. Provide a particle size analysis including the following gradient of mineral content: USDA Designation <u>Sieve in mm</u> Gravel + 2 mm Very Coarse Sand 1-2 mm Coarse Sand 0.5-1 mm Medium Sand 0.25-0.5 mm 0.1-0.25 mm Fine Sand
- Very Fine Sand 0.05-0.1 mm 0.002-0.05 mm Silt minus 0.002 Clay 3. Provide a chemical analysis including the following:
- a. pH and Buffer.
- b. Percent organic content by oven dried weight.
- c. Nutrient levels by parts per million including nitrogen, phosphorous, potassium, magnesium, manganese, iron, zinc and calcium. Nutrient test shall include the testing laboratory recommendations for supplemental additions to the soil. d. Soluble salts by electrical conductivity of a 1:2 soil water sample measured in
- Milliohm per cm. e. Cation Exchange Capacity.
- 4. Provide a physical analysis of the following:
- a. Water permeability in inches per hour with the sample compacted at a specific compaction.
- C. All testing and certification shall be the sole responsibility of the Contractor. D.
- Submit the particle size analysis for all sands and light weight aggregate. Submit the manufacturer's particle size analysis, pH, and certificate of length of composting period for organic materials.

1.4 DELIVERY, STORAGE AND HANDLING

E.

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PLANTING SOIL

- diately fill the hole with water and measure the rate of fall in the water. In the event the water drains at a rate of less than 1" per hour, till the soil to a depth to break the over compaction.
- 8. The Owner's Representative shall determine the required number and locations of nercolation tests
- Installation operation shall be stopped if subgrade is frozen or wet. 9.
- 10. Soil shall be thoroughly soaked after installation prior to planting and sodding. The standing period for the soaked soil shall be 3 days after which the initial settled grades shall be reset.
- 11. All final grades shall be as per the Contract Drawings and shall have positive drainage towards inlets and drainage structures.
- 12. All site grading shall be approved by the Owner's Representative before installation of mulch, sod and plants.

3.4 GENERAL CLEAN UP

A. Upon completion of this section, final cleaning shall be done within the limits of the project, and shall consist of completely cleaning the project of excess material, sweeping pavements and structure of rubbish, the removal of any unused material which will mar the appearance of the contract, and repairing any areas as determined by the Engineer as not meeting specifications.

END OF SECTION

A. Do not deliver or place soils in frozen, wet or muddy cond

1.5 EXAMINATION OF CONDITIONS A. All areas where planting mix is to be placed shall be i starting work and all defects such as incorrect grading,

PART 2 – PRODUCTS:

2.1	TOPSOIL 1.	To a.	-	all be original surface fria
			clods, lumps, plants, such as 2" or larger	nd stones retained on a 50 roots, sticks, and foreign r fragments of hot mix, co r germination of seeds and
		b.		all be 99.9% free of noxic
		υ.		ass (Sorghum halapense)
			tests.	uss (sorgnum numpense)
		c.	Topsoil shall contain	no less than 5% or more th
		d.	-	am to sandy clay loam so
			distribution:	
			Approximate Particle	
			Gravel	Less than 10%
			Coarse	30%-60%
			Fine Sand	5%-15%
			Very Fine Sand	5%-10%
			Silt	15%-25%
			Clay	25%-30%
		e.	Mineral Requirement	s as per AASHTO standar
			Magnesium – Mg	1
			Phosphorus - P205	1
			Potassium - K20	1
			Soluble salts/Conduct	tivity –
				000 ppm/0.9 mmhos/cm (ir
				3000 ppm/2.5 mmhos/cm (
				soil conditions, the foll
			mended with levels n	
			Boron	3 lbs per acre
			Manganese	50 lbs per acre
			Potassium (K ₂ O)	450 lbs per acre
			Sodium	20 lbs per acre
	B. ADI	DITI	VES	*
	1.	Mi	x Vitera Gelscape with	h backfill at the rate of 1 o

soil mixing and shredding equipment shall be the responsiquipment used shall be of adequate capacity and capability to ontrol

e is given for final quality control testing as work progress, rial shall be mixed in advance of the time the material is to be ximately 50 cubic yards shall be created to store the planting umber denoting the necessary test results for quality control ll be used to protect the soil piles from inclement weather confrom existing soils below.

Engineer of any subsurface conditions that might affect the equired to complete it. will be affected due to the work carried out shall be lo-

opsoil and planting mix. All new utility work shall be compsoil and planting mix. osed grade shall be carried out according to the Contract

n not to over excavate compacted subbases of adjacent hardsure the subgrade slopes parallel to the adjacent grade, or to

face drain lines, as shown on the Contract Drawings. tion lines, and risers shall be installed and tested prior to inand the installed drainage shall be approved by the Engineer

shall be protected from damage and/or staining from soil us-A clean-up process shall be carried out at the end of each om damaging the adjacent sidewalks. Any damage incurred process shall be repaired at the Contractor's expense.

and planting bed locations shown on the plans to a total depth and vines, and 24" total depth for all perennials, trees

a layer of the planting mix as follows:

subgrade to the depth indicated on the plans, or to a percentage of existing soil specified as part of the soil mix. part of the mix, provide enough loose existing soil for mixing. t mix over the existing loose soil. Thoroughly mix the plant

protected from compaction. In case compaction does occur,

I mix in lifts of 8-10" to the depths shown on the plans, or ifications. Soil mix shall be spread on these areas to a ater than that specified on the plans, so that after natural set-, the work will be in reasonable conformity with the lines, hown on the plans.

nake sure that equipment does not travel over already ompaction. of each lift shall be 85% and not less than 80%.

be determined by a field percolation test. Dig a hole 10" in Fill the hole with water and let it drain completely, imme-

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PLANTING SOIL

SQUARE AT SUITLAND FEDERAL CENTER

Parker Rodriguez, Inc NING URBAN DESIGN LANDSCAPE ARCHITECTU

l North Union St. #32 Alexandria VA 22314 703.548.5010

OWNER Redevelopment Authority of Prince George's County

9200 Basil Court Suite 504 Large, MD 20774 301-883-5300

(IOSK REVISION 1 - RFI RESPONSE 08/14/23

REVISIONS

KIOSK PLANTING SPECS

> ORIGINAL ISSUE DATE 07/31/17 DESIGNED BY DC, SF DRAWN BY YZ, YJ CHECKED BY

> > DC

SCALE AS NOTED



General Note:

This sheet is created based on the Suitland Phase 1B, 1C and 2 Specification, and to be applied to the Kiosk building project.