

CITY OF COLLEGE PARK, MARYLAND
Request for Bid Proposals CP-16-04
Duvall Field Concession Building and Recreation Plaza
Addendum #1 dated May 3, 2016
Change and Clarification of Bid Specs and Extension of Bid Submittal Date

This Addendum shall become a part of the Contract Documents dated April 13, 2016. It includes updated engineering specifications as well as written answers to questions raised at the mandatory pre-bid meeting on April 25, 2016. Bidder must acknowledge receipt of this Addendum in the space provided on the Bid Proposal Form. Failure to do so may subject Bidder to disqualification.

Addendum Items:

1. Dates for submission of technical questions and bid submission have been extended. New dates are:

TECHNICAL QUESTIONS DUE	May 11, 2016 at 3:00 pm
BID SUBMISSIONS DUE	May 16, 2016 at 2:00 pm

2. Estimated cost for this project is \$471,750.

3. Daily Work Hours: The daily work hours are Monday through Friday 7:00 a.m. - 5:00 p.m. per City Code. Arrangements for working out of this time period (mainly after) can be requested by formal request to the City of College Park in accordance with the general conditions of the contract as discussed during the pre-bid meeting. These arrangements will include Saturdays. There will be no work allowed on Sundays.

4. Temporary Electric: Temporary electric is allowed on the project and is the sole responsibility of the Contractor.

5. Site Construction Trailer/Site Security: A site construction trailer shall be allowed on the site. All security is the responsibility of the Contractor. The Contractor shall provide all site security including temporary fencing around the work areas for the duration of the project.

6. Wage Scale: There is no wage scale for this project.

7. Material and Compaction Testing: All material and compaction testing shall be completed by an independent testing firm. All costs for inspection and testing shall be borne by the Contractor.

8. Itemized Cost and Unit Prices Form: The form has been revised to remove the duplication of cast in place concrete for the seatwall (bid tab 600 and 1000). The bid form for tab 1000 seatwall has added slots for pricing all three seatwall Options A, B and C as shown on Sheet 11 of 23 with Option B representing the base bid.

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9. Sheet 9A: Has been reissued to the sharefile site to remove deduct alternate No. 4 and make clarifications on the deduct alternates.

10. Sheet 11 of 23 Irrigation: Has been reissued to the sharefile site with Addendum No. 1 shown and noted with the standard cloud and addendum no. in triangle.

11. Irrigation Box Relocation: See 'Exhibit A' for proposed location of the existing irrigation boxes.

12. Sheet 08 Demolition Plan: Has been modified along the south end to include the removal of the existing asphalt path and revise the LOD line.

13. Notice to Proceed: The dates shown in section 6. Contract Time are hereby removed. The City will issue a Notice to Proceed. No work shall begin prior to receiving the Notice to Proceed. The project schedule will be determined based on the date of the Notice to Proceed.

14. Seatwall Pricing: The Contractor shall provide pricing for all three seatwall typical sections (see bid tab 1000). A revised Itemized Cost and Unit Prices form is attached to this Addendum. Wall option B will be the base bid and options A and C shall be priced on the designated lines.

15. CU Structural Soil: A copy of the CU-Structural Soil specifications is attached to this Addendum.

16. Micro-Bioretenion Soil Media: The filter media shall be as written in Section 322 - Stormwater Drainage and Stormwater Management. It states "Filter media: All filter media shall confirm to the latest Prince George's County standards for the individual device". In this case it shall be Appendix 10-3 Bioretention Material and Construction Specifications. A copy is attached to this Addendum.

17. Roof Warranty: The standard manufacturer's warranty is attached to this Addendum.

18. Romtec Section 13 34 23 handout (distributed at the mandatory pre-bid meeting on April 25, 2016) is attached and incorporated in the Contract Documents.

THIS CONCLUDES ADDENDUM #1 TO RFP CP-16-04, issued May 3, 2016.

TO BE SUBMITTED WITH BID

DUVALL FIELD CONCESSION BUILDING AND RECREATION PLAZA ITEMIZED COST AND UNIT PRICES (revised by Addendum #1)

Do not write in gray shaded areas					
BID	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
001	BOND	1	LS		
100	SITE CLEARING, INITIAL SEDIMENT, DEMOLITION AND EROSION CONTROL	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Mobilization including electronic submittal review software and project identification signs.</p> <p>Maintenance of traffic including signage, markings, barriers, orange blaze safety fence, flagmen, etc.</p> <p>Construction stakeout. Clearing & grubbing.</p> <p>Tree protection & removal. Demolition including removal of all pavement, wood walls fencing, curbs, steps, buildings, concrete, pipes, stone, etc. as needed to complete overall work. Utility disconnections.</p>				
200	EARTHWORK, GRADING & DRAINAGE	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Site excavation and grading including stripping and stockpiling. Trenches for footings and utilities</p> <p>Building foundation excavation, dewatering,</p> <p>Hauling material off site. Imported fill.</p> <p>Compaction with geotechnical certification.</p>				
300	DRAINAGE	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Erosion & sediment control including control of water, perimeter controls, temporary piping, maintenance, sequencing, etc.</p> <p>On-site storm drainage system including all structures, connections, piping, outfalls, tie-ins, etc.</p> <p>Roof Drain cap</p> <p>Micro-bioretenention facilities, including all connections, openings and appurtenances required for complete installation.</p>				
350	PRE-ENGINEERED BUILDING CONSTRUCTION	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Foundations, construct building, masonry, carpentry, structural work, electrical, mechanical, plumbing – all work.</p>				
400	UTILITIES	1	LS		
	<p><i>Examples of items within this section include the following:</i></p>				

DUVALL FIELD CONCESSION BUILDING AND RECREATION PLAZA ITEMIZED COST AND UNIT PRICES (revised by Addendum #1)

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BID	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
	Water service connections including fees, cap/valve adjustments, valves, piping, backflow preventer, meter & appurtenances. Sanitary Sewer connections, pipe and cleanouts. Irrigation – relocation of components, valves , ocxes pipe , wire , controllers, refitting, new piping extensions, connections etc.				
500	PAVING	1	LS		
	<i>Examples of items within this section include the following:</i> Cast-in-place concrete curb and gutter including subgrade prep, subbase & jointing. Asphalt pavement patch & repair including sawcut, subgrade prep, subbase & tack coats. Asphalt paving mill & overlay including tack coat & milling at transitions. Pavement markings including lane divisions & crosswalks. Unit pavers, edging				
600	PAVED IN PLACE CONCRETE FEATURES	1	LS		
	<i>Examples of items within this section include the following:</i> Concrete sidewalk including subgrade prep, subbase & jointing. Sidewalk ramps including detectable warning surface. Bituminous HMA paving including subgrade prep, subbase & jointing. Planter walls and edging. NOTE: For cast-in-place concrete seatwall, see bid tab 1000.				
700	LANDSCAPING	1	LS		
	<i>Examples of items within this section include the following:</i> Imported landscape soil including testing, amendments, mixing & placement. Delivery and installation of trees, shrubs, ornamental grasses, herbaceous perennials & ground covers. SWM related plants including planting for bioretention areas. Sod. Turf seed and mulch including temporary seed & overseeding. Turf Mulch.				
800	TRAFFIC	1	LS		
	<i>Examples of items within this section include the following:</i> Permanent traffic signage including posts & footings. Pavement markings.				

DUVALL FIELD CONCESSION BUILDING AND RECREATION PLAZA ITEMIZED COST AND UNIT PRICES (revised by Addendum #1)

Do not write in gray shaded areas

BID	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1000	WALLS (Option B)	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Cast-in-place concrete retaining/seat wall at recreation plaza.</p> <p>Precast concrete seat walls including subbase prep, subgrade, plinth, terminus, wood bench connections, etc.</p> <p>Price for Wall Option A _____</p> <p>Price for Wall Option B _____ (enter above as base bid)</p> <p>Price for Wall Option C _____</p>				
1100	SITE AMENITIES & FURNISHINGS	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Trash receptacles & recycling receptacles.</p> <p>Benches, Bike racks. Picnic tables with shade structures, flag poles</p>				
1500	EXTERIOR LIGHTING	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>Exterior LED Strip at Seatwall power distribution, mounting, remote power supply connections, conduit & controls. Accessories.</p>				
1600	AS-BUILT DRAWINGS	1	LS		
	<p><i>Examples of items within this section include the following:</i></p> <p>As-built drawings for stormwater management facilities, underground utilities, site components.</p> <p>Support documentation, review submittals & permit releases.</p>				
		TOTAL LUMP SUM BASE BID			

ITEMIZED COST AND UNIT PRICES (continued)

1900	MASTER UNIT PRICE LIST ITEM	UNIT	UNIT PRICE	EXTENDED PRICE
1901	Tree protection fencing.	LF		
1902	Undercut unsuitable materials and replace with CR-6	CY		
1903	Rock excavation	CY		
1904	Miscellaneous non-reinforced concrete (SHA Mix #3)	CY		
1905	Miscellaneous reinforced concrete (SHA Mix #3)	CY		
1906	Sod	SY		
1907	Erosion control matting	SY		
1908	Silt fence	LF		
1909	Super silt fence	LF		
1910	Filter log	LF		
1911	Concrete Curb and Gutter	LF		
1912	4" Concrete Base	SF		
1913	Bioretention Soil Media	CY		
1914	Planting Bed Soil (for trees and shrubs)	CY		

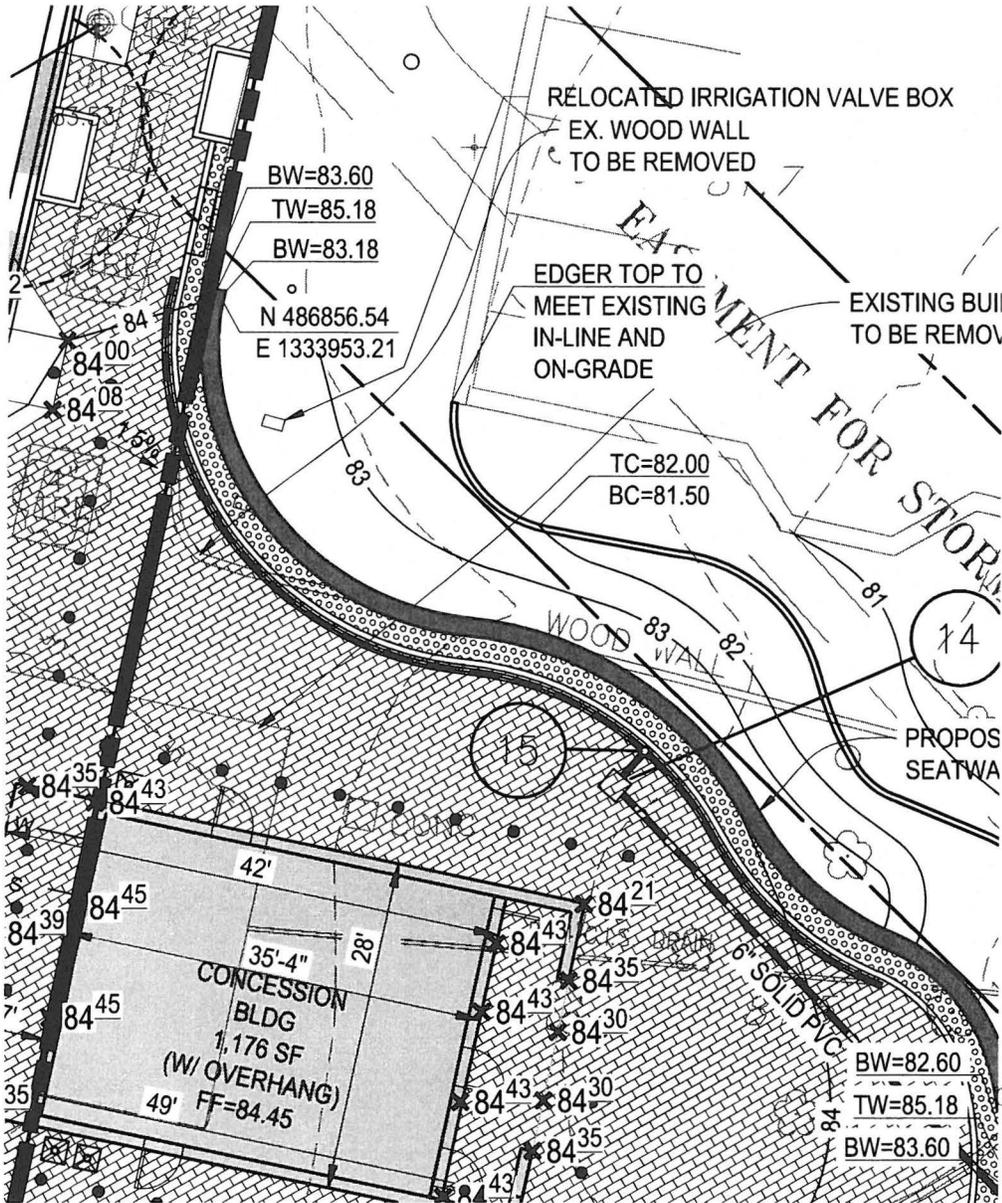


EXHIBIT A

Irrigation Valve Box Relocation Plan

Not to scale

Addendum #1

Duvall field Concession Stand and Recreation Plaza

RFP CP-16-04

Charles P. Johnson & Associates

Issued: 05/03/2016

1 of 1

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

PART 1 - DESCRIPTION AND SPECIFICATION

1.1 GENERAL

- A. The work of this section consists of all Structural Soil work and related items as indicated on the drawings or as specified herein and includes, but is not limited to, the following:

CU-Soil[™] is a proprietary material patented by Cornell University (US Patent #5,849,069) and marketed under the registered trademark, CU-Structural Soil[®]. Only licensed companies are authorized to produce this material, meeting the specifications described in this text. For a list of licensed CU-Soil[™] producers, call AMEREQ, INC. at 800-832-8788.

1.2 REFERENCES AND STANDARDS

- A. The following references are used herein and shall mean:

ASTM: American Society of Testing Materials

USDA: United States Department of Agriculture

AASHTO: American Association of State Highway and Transportation Officials

Standard Specifications: Regional or Municipal Standard Specifications Documentation for the location of proposed usage

AOAC: Association of Official Agricultural Chemists

1.3 SAMPLES AND SUBMITTALS

- A. At least 30 days prior to ordering materials, the installing contractor shall submit to the engineer representative samples, certificates, manufacturer's literature and test results for materials specified below. No materials shall be ordered until the required samples, certificates, manufacturer's literature, producer's current license and test results have been reviewed and approved by the landscape architect and/or engineer. The engineer reserves the right to reject any material that does not meet CU-Structural Soil[®] specifications. Delivered materials shall closely match the approved samples.
- B. Submit from licensed producer, 1/2 cubic foot representative sample of clay loam, one cubic foot representative sample of crushed stone, and one cubic foot representative sample of CU-Structural Soil[®] mix for approval. In the event of multiple source fields for clay loam, submit a minimum of one set of samples per source field or stockpile. The samples of all clay loam, crushed stone, and CU-Structural Soil[®] shall be submitted to the engineer as a record of the soil color and texture.
- C. Submit soil test analysis reports for sample of clay loam from an independent soil-testing laboratory. The testing laboratory for particle size and chemical analysis may include a public agricultural extension service agency.
1. Submit a mechanical analysis of the clay loam sample and particle size analysis including the following gradient of mineral content:

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

USDA Designation	Size in mm.
Gravel	+2 mm
Sand	0.05 – 2 mm
Silt	0.002-0.05 mm
Clay	minus 0.002 mm

Sieve analysis shall be performed and compared to USDA Soil Classification System.

Sieve analysis shall be done by a combined hydrometer and wet sieving using sodium hexametaphosphate as a dispersant in compliance with ASTM D422 after destruction of organic matter by hydrogen peroxide.

2. Submit a chemical analysis, performed in accordance with current AOAC Standards, including the following:
 - a. pH and buffer pH.
 - b. Percent organic matter as determined by the loss of ignition of oven dried samples. Test samples shall be oven dried to a constant weight at a temperature of 230 degrees F, plus or minus 9 degrees.
 - c. Analysis for nutrient levels by parts per million.
 - d. Soluble salt by electrical conductivity of a 1:2 soil/water sample measured in Millimho per cm.
 - e. Cation Exchange Capacity (CEC).
 - f. Carbon/Nitrogen Ratio.

- D. Submit one cubic foot sample of crushed stone which will be used in production of CU-Soil[™].
 1. Provide particle size analysis:

USDA Designation	Size in mm.
3"	+76 mm
2 1/2"	63-76 mm
2"	50-63 mm
1 1/2"	37-50 mm
1"	25-37 mm
3/4"	19-25 mm
Fine gravel	2-19 mm
 2. Provide the manufacturers analysis of the loose and rodded unit weight
 3. Losses from LA Abrasion tests- not to exceed 40%
 4. Minimum 90% with 2 or more fractured faces
 5. Percent pore space analysis

- E. At the engineer's discretion, the sample of CU-Structural Soil[®] may be tested for the following:
 1. Compaction in accordance with ASTM D698/AASHTO T99 without removing oversize aggregate
 2. California Bearing Ratio in accordance with ASTM D1883- soaked CBR shall equal or exceed a value of 50
 3. Measured dry-weight percentage of stone in the mixture

- F. The approved CU-Structural Soil[®] sample shall be the standard.

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

- G. Any deviation from the specified crushed stone and clay loam specifications shall be approved by Amereq, Inc.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Delivered CU-Structural Soil[®] shall be at or near optimum compaction moisture content as determined by AASHTO T 99 (ASTM D 698) and should not be placed in frozen, wet or muddy sites.
- B. Protect CU-Structural Soil[®] from exposure to excess water and from erosion at all times. Do not store CU-Soil[™] unprotected. Do not allow excess water to enter site prior to compaction. If water is introduced into the CU-Soil[™] after grading, allow water to drain to optimum compaction moisture content.

1.5 EXAMINATION OF CONDITIONS

- A. All areas to receive CU-Structural Soil[®] shall be inspected by the installing contractor before starting work and all defects such as incorrect grading, compaction, and inadequate drainage shall be reported to the engineer prior to beginning this work.

1.6 QUALITY ASSURANCE

- A. Qualifications of installing contractor: The work of this section should be performed by a contracting firm which has a minimum of five years experience. Proof of this experience shall be submitted as per paragraph, SAMPLES and SUBMITTALS, of this section.

PART 2 - MATERIALS

2.1 CLAY LOAM

- A. Soil shall be a “loam” with a minimum clay content of 20% or a “clay loam” based on the “USDA classification system” as determined by mechanical analysis (ASTM D-422) and it shall be of uniform composition, without admixture of subsoil. It shall be free of stones, lumps, plants and their roots, debris and other extraneous matter. It shall not contain toxic substances harmful to plant growth. Clay loam shall contain not less than 2% or more than 5% organic matter as determined by the loss on ignition of oven-dried samples. Test samples shall be oven-dried to a constant weight at a temperature of 230 degrees F., plus or minus 9 degrees.
- B. Mechanical analysis for the loam or clay loam shall be as follows:

<u>Textural Class</u>	<u>% of Total Weight</u>
Gravel	less than 5%
Sand	20-45%
Silt	20-50%
Clay	20-40%

- C. Chemical analysis: Meet, or be amended to meet the following criteria:
 - 1. pH between 5.5 to 6.5
 - 2. Percent organic matter 2% - 5% by dry weight

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

3. Adequate nutrient levels
 4. Soluble salt less than 1.0 mmho/cm
 5. Cation Exchange Capacity (CEC) greater than 10
 6. Carbon/Nitrogen ratio less than 33:1
- D. Loam or clay loam shall not come from USDA - classified prime farmland.

2.2 FERTILIZER (if needed)

- A. Should nutrient analysis suggest that the loam or clay loam need additional nutrients, it shall be amended by Amereq's licensed producer.

2.3 SULFUR (if needed)

- A. Sulfur shall be a commercial granular, 96% pure sulfur, with material and analysis appearing on the labeled container.
- B. Sulfur used to lower pH shall be a ferrous sulfate formulation.
- C. Application rates shall be dependent on soil test results.

2.4 LIME (if needed)

- A. Agricultural lime containing a minimum of 85% carbonates.
- B. Application rates shall be dependent on soil test results.

2.5 CRUSHED STONE

- A. The size of the crushed stone shall be 0.75 inches to 1.5 inches allowing for up to 10% being greater than 1.5 inches, and up to 10% less than 0.75 inches.
- B. Acceptable aggregate dimensions will not exceed 2.5:1.0 for any two dimensions.
- C. Minimum 90% with two or more fractured faces.
- D. Results of Aggregate Soundness Loss test shall not exceed 18%.
- E. Losses from LA Abrasion tests shall not exceed 40%.

2.6 HYDROGEL

- A. Hydrogel shall be a coated potassium propenoate-propenamide copolymer (Gelscape[®] Hydrogel Tackifier) as manufactured by Amereq, Inc. 800-832-8788.

2.7 WATER

- A. The installing contractor shall be responsible to furnish his own supply of water (if needed) free of impurities, to the site.

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

2.8 CU-STRUCTURAL SOIL[®]

- A. A uniformly blended urban tree mixture of crushed stone, clay loam and Gelscape[®] Hydrogel Tackifier, as produced by an Amereq-licensed company, mixed in the following proportion:

<u>Material</u>	<u>Unit of Weight</u>
specified crushed Stone	100 units dry weight
specified clay loam	20 – 25 units (to achieve minimum CBR of 50)
Gelscape [®] Hydrogel Tackifier	0.035 units dry weight
moisture	ASTM D698/AASHTO T-99 optimum moisture

PART 3 - PRODUCTION AND INSTALLATION GUIDELINES

3.1 CU-SOIL[™] MIXING AND QUALITY CONTROL TESTING

- A. All CU-Structural Soil[®] mixing shall be performed at the licensed producer's yard using appropriate soil measuring, mixing and shredding equipment of sufficient capacity and capability to assure proper quality control and consistent mix ratios. No mixing of CU-Structural Soil[®] at the project site shall be permitted.

Maintain adequate moisture content during the mixing process. Soils and mix components shall easily shred and break down without clumping. Soil clods shall easily break down into a fine crumbly texture. Soils shall not be overly wet or dry. The licensed producer shall measure and monitor the amount of soil moisture at the mixing site periodically during the mixing process.

- B. Raw materials shall be mixed off-site, only at the licensed producer's facility, on a flat asphalt or concrete paved surface to avoid soil contamination.
- C. Should the independent laboratory test results of the clay loam reveal a need to amend it, to meet specifications, the amending materials should be added to the clay loam following the rates and recommendations provided by Amereq.

3.2 UNDERGROUND UTILITIES AND SUBSURFACE CONDITIONS

- A. The installing contractor shall notify the engineer of any subsurface conditions which will affect the contractor's ability to install the CU-Soil[™].
- B. The installing contractor shall locate and confirm the location of all underground utility lines and structures prior to the start of any excavation.
- C. The installing contractor shall repair any underground utilities or foundations damaged during the progress of this work.

3.3 SITE PREPARATION

- A. Do not proceed with the installation of the CU-Structural Soil[®] material until all walls, curb footings and utility work in the area have been installed. For site elements dependent on CU-Structural Soil[®] for foundation support, postpone installation of such elements until

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

immediately after the installation of CU-Structural Soil[®].

- B. Install subsurface drain lines as shown on the plan drawings prior to installation of CU-Structural Soil[®] material.
- C. Excavate and compact the proposed subgrade to depths, slopes and widths as shown on the drawings. Maintain all required angles of repose of the adjacent materials as shown on the drawings. Do not over excavate compacted subgrades of adjacent pavement or structures.
- D. Confirm that the subgrade is at the proper elevation and compacted as required. Subgrade elevations shall slope parallel to the finished grade and/or toward the subsurface drain lines as shown on the drawings.
- E. Clear the excavation of all construction debris, trash, rubble and any foreign material. In the event that fuels, oils, concrete washout silts or other material harmful to plants have been spilled into the subgrade material, excavate the soil sufficiently to remove the harmful material. Fill any over excavation with approved fill and compact to the required subgrade compaction.
- F. Do not proceed with the installation of CU-Structural Soil[®] until all utility work in the area has been installed. All subsurface drainage systems shall be operational prior to installation of CU-Structural Soil[®].
- G. Protect adjacent walls, walks and utilities from damage. Use ½" plywood and/or plastic sheeting as directed to cover existing concrete, metal and masonry work and other items as directed during the progress of the work.
 - 1. Clean up all trash and any soil or dirt spilled on any paved surface at the end of each working day.
 - 2. Any damage to the paving or architectural work caused by the installing contractor shall be repaired, as directed by the engineer.
- H. Maintain all silt and sediment control devices required by applicable regulations. Provide adequate methods to assure that trucks and other equipment do not track soil from the site onto adjacent property and the public right of way.

3.4 INSTALLATION OF CU-STRUCTURAL SOIL[®] MATERIAL

- A. Install CU-Structural Soil[®] in 6 inch lifts and compact each lift.
- B. Compact all materials to at least 95% Proctor Density from a standard compaction curve AASHTO T 99 (ASTM D 698). No compaction shall occur when moisture content exceeds maximum as listed herein. Delay compaction if moisture content exceeds maximum allowable and protect CU-Structural Soil[®] during delays in compaction with plastic or plywood as directed by the engineer.
- C. Bring CU-Structural Soil[®] to finished grades as shown on the drawings. Immediately protect the CU-Structural Soil[®] from contamination by toxic materials, trash, debris, water containing cement, clay, silt or materials that will alter the particle size distribution of the mix with plastic or plywood as directed by the engineer.
- D. The engineer may periodically check the material being delivered, prior to installation for color and texture consistency with the approved sample provided by the installing contractor as part of the submittal for CU-Structural Soil[®]. If the engineer determines that the delivered CU-Soil[™] varies significantly from the approved samples, the engineer shall contact the

CU-STRUCTURAL SOIL[®] SPECIFICATIONS

licensed producer.

- E. Engineer shall ensure that the delivered structural soil was produced by the approved CU-Soil[™] licensee by inspecting weight tickets showing source of material.
- F. CU-Soil[™] should not be stockpiled long-term. Any CU-Soil[™] not installed immediately should be protected by a tarp or other waterproof covering.

3.5 FINE GRADING

- A. After the initial placement and rough grading of the CU-Structural Soil[®] but prior to the start of fine grading, the installing contractor shall request review of the rough grading by the engineer. The installing contractor shall set sufficient grade stakes for checking the finished grades.

- B. Adjust the finish grades to meet field conditions as directed.

Provide smooth transitions between slopes of different gradients and direction.

Fill all dips with CU-Soil[™] and remove any bumps in the overall plane of the slope.

- a. The tolerance for dips and bumps in CU-Structural Soil[®] areas shall be a 3" deviation from the plane in 10'.

All fine grading shall be inspected and approved by the engineer prior to the installation of other items to be placed on the CU-Structural Soil[®].

- C. The engineer will inspect the work upon the request of the installing contractor. Request for inspection shall be received by the engineer at least 10 days before the anticipated date of inspection.

3.6 ACCEPTANCE STANDARDS

- A. The engineer will inspect the work upon the request of the installing contractor. Request for inspection shall be received by the engineer at least 10 days before the anticipated date of inspection.

3.7 CLEAN-UP

- A. Upon completion of the CU-Structural Soil[®] installation operations, clean areas within the contract limits. Remove all excess fills, soils and mix stockpiles and legally dispose of all waste materials, trash and debris. Remove all tools and equipment and provide a clean, clear site. Sweep, do not wash, all paving and other exposed surfaces of dirt and mud until the paving has been installed over the CU-Structural Soil[®] material. Do no washing until finished materials covering CU-Structural Soil[®] material are in place.

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END OF SECTION

BIORETENTION MATERIAL AND CONSTRUCTION SPECIFICATIONS**TIMING**

1. A BIORETENTION FACILITY SHALL NOT BE PLACED IN SERVICE UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND INSTALLATION APPROVED BY THE INSPECTOR. PROVISIONS FOR SEDIMENT CONTROL SHALL BE IN PLACE AS SPECIFIED WITHIN THE SEDIMENT CONTROL PLAN.
2. DELIVERY OF MATERIALS SUCH AS SOIL MEDIA, PLANTS, GRAVEL, GEOTEXTILE FABRIC, AND UNDERDRAINS MUST BE COORDINATED TO AVOID STOCKPILING AND CONTAMINATION PROBLEMS. SOIL MEDIA SHOULD NOT BE DELIVERED UNTIL THE BIORETENTION FACILITY LOCATION HAS BEEN EXCAVATED OR GRADED TO THE DESIGN ELEVATIONS WITH THE GEOTEXTILE FABRIC AND UNDERDRAIN SYSTEM IN PLACE. PLANT MATERIALS SHOULD NOT BE DELIVERED UNTIL AFTER THE SOIL MEDIA HAS SETTLED AND BEEN TRIMMED TO THE PROPER GRADE ELEVATION.
3. PRIOR TO THE INSTALLATION OF SOIL MEDIA, UNDERDRAIN SYSTEM, GEOTEXTILE FABRIC AND PLANTING MATERIAL, THE COUNTY INSPECTOR MUST APPROVE THAT THE EXCAVATION HAS BEEN PREPARED PROPERLY.

EXCAVATION

3. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE FACILITY SIDES TO AVOID CONTAMINATION AND POSSIBLE SIDEWALL INSTABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE SIDEWALLS OF THE TRENCH USING ROOT PRUNING TECHNIQUES AND THE SIDEWALLS ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.

SOIL TEXTURE, STRUCTURE, AND PREPARATION

9. SOIL MEDIA SHALL MEET THE MSHA SPECIFICATIONS 920.01.02 AND SHALL HAVE A SANDY LOAM, LOAMY SAND, OR LOAM TEXTURE PER USDA TEXTURAL TRIANGLE.
10. THE SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN TWO (2) INCHES.
11. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS.
12. THE SOIL MEDIA SHALL BE FREE OF BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, MUGWORT, NUTSEGE, POISON IVY, CANADIAN THISTLE, TEARTHUB, OR OTHER NOXIOUS WEEDS.

BMP Specification**Issue Date: January 20, 2014**

13. THE SOIL MEDIA FOR BIORETENTION AREAS MUST BE TESTED PRIOR TO INSTALLATION FOR NUTRIENTS, PH AND ORGANIC MATTER. A SHOP DRAWING REVIEW AND APPROVAL OF THE SOIL MIX SHALL BE PROVIDED TO THE COUNTY SITE/ROAD INSPECTOR. THE SOIL SAMPLE MUST BE CERTIFIED AS MEETING THE CRITERIA ESTABLISHED FOR THE SOIL MEDIA
14. INSITU SOIL USED FOR BIORETENTION MUST ALSO BE PREPARED. SCARIFICATION OF SOIL SURFACES BY MANUALLY RAKING TO AERATE AND REDUCING SOIL COMPACTION IS RECOMMENDED.
15. SOIL MEDIA THAT DOES NOT CONFORM TO COMPOSITION REQUIREMENTS FOR PH OR NUTRIENT ANALYSIS SHALL BE AMENDED AS SPECIFIED BY THE NMP. SOIL MEDIA THAT EXCEEDS MAXIMUM PHOSPHORUS CONCENTRATION OR FAILS OTHER COMPOSITION REQUIREMENTS WILL NOT BE ACCEPTED, AND SHALL NOT BE DELIVERED OR USED AS SOIL MEDIA.
16. SOIL MEDIA SHALL BE STORED IN A STOCKPILE THAT IS PROTECTED FROM WEATHER UNDER TARP OR SHED. BSM STORED FOR 6 MONTHS OR LONGER SHALL BE RESAMPLED, RETESTED, AND REAPPROVED BEFORE USE.

SOIL TESTING

UNDERDRAINS AND FILTER MATERIALS

1. UNDERDRAIN PIPE JOINTS AND STORM DRAIN STRUCTURE CONNECTIONS MUST BE ADEQUATELY SEALED TO AVOID PIPING CONDITIONS. PIPE SECTIONS SHALL BE COUPLED USING SUITABLE CONNECTION RINGS, GASKETS, AND FLANGES. FIELD CONNECTIONS TO STORM DRAIN STRUCTURES AND PIPES SHALL BE SEALED WITH POLYMER GROUT MATERIAL THAT IS CAPABLE OF ADHERING TO SURFACES. UNDERDRAIN PIPE SHALL BE CAPPED (AT STRUCTURE) UNTIL COMPLETION OF SITE.
2. UNDERDRAIN PIPES MUST NOT BE WRAPPED IN FILTER FABRIC.
3. DURING GRAVEL BED INSTALLATION, GRAVEL SHALL BE SPILLED DIRECTLY OVER UNDERDRAIN AND SPREAD MANUALLY.

GEOTEXTILE SPECIFICATIONS

11. GEOTEXTILE FABRIC SHALL MEET:
 - A. ASTM D-751 (PUNCTURE STRENGTH - 125 LB)
 - B. ASTM D-1117 (MULLEN BURST STRENGTH - 400 PSI)

BMP Specification

Issue Date: January 20, 2014

- C. ASTM D-1682 (TENSILE STRENGTH - 300 LB)
- D. FABRIC SHALL HAVE 0.08" THICK E.O.S.OF#80 SIEVE, AND MAINTAIN 125 GPM PER SQ. FT. FLOW RATE.

SAND AND GRAVEL SPECIFICATIONS

1. UNDERDRAIN GRAVEL SHALL MEET MSHA TABLE 901A FOR NO. 57 STONE. PEA GRAVEL SHALL MEET SIZE 7 FROM MSHA TABLE 901A
2. PROVIDE CLEAN SAND, FREE OF DELETERIOUS MATERIALS. SAND SHALL MEET MSHA TABLE 901A FOR "FINE AGGRAGATE/LIGHTWEIGHT PORTLAND CEMENT CONCRETE. MANUFACTURED SAND IS NOT ACCEPTABLE.

SOIL INSTALLATION

7. AFTER SCARIFYING THE BOTTOM AREA OF THE PROPOSED FACILITY, PLACE SOIL AT 8"-12" LIFTS. LIFTS ARE NOT TO BE COMPACTED.
8. AVOID OVER-COMPACTION BY ALLOWING TIME FOR NATURAL COMPACTION AND SETTLEMENT. ADDITIONAL MANUAL SOIL COMPACTION MUST NOT BE PERFORMED. RAKE SOIL MATERIAL AS NEEDED TO LEVEL OUT. OVERFILL ABOVE THE PROPOSED SURFACE INVERT TO ACCOMMODATE UP TO 20% NATURAL SETTLEMENT TO PROPER GRADE.
9. PRESOAKING MAY BE PERFORMED TO HASTEN NATURAL COMPACTION, PREFERABLY BY RAIN EVENTS.
10. CONSTRUCTION ACTIVITIES MUST BE PLANNED SUCH THAT EQUIPMENT DOES NOT CROSS THE BIORETENTION AREA FOLLOWING SOIL INSTALLATION.
11. CONTRACTOR SHALL ARRANGE FOR AS-BUILT SURVEY PRIOR TO LANDSCAPE INSTALATION AND FINAL MULCHING OF AREA.

PLANT MATERIALS

7. IF PLANT MATERIALS ARE STOCKPILED ON SITE, ROOT BALLS MUST BE KEPT WET TO ENABLE PLANTS' SURVIVAL PRIOR TO INSTALLATION.
8. PLANT INSTALLATION SHOULD BE PLANNED TO MINIMIZE ADDITIONAL SOIL COMPACTION BY PERSONS ACCESSING THE BIORETENTION AREA.
9. SOD FOR SIDE SLOPES SHALL BE PLACED PRIOR TO FINAL MULCH INSTALLATION.

MULCH INSTALLATION

1. ACCEPTABLE MULCH SHALL BE SHREDDED HARDWOOD ONLY. MULCH MUST BE WELL AGED, UNIFORM IN COLOR, AND FREE OF FOREIGN MATERIAL INCLUDING

BMP Specification

Issue Date: January 20, 2014

PLANT MATERIAL. WELL AGED MULCH IS DEFINED AS MULCH THAT HAS BEEN STOCKPILED OR STORED FOR AT LEAST TWELVE (12) MONTHS.

2. MULCH SHALL BE PLACED AFTER TREES, SHRUBS, GROUND COVER, SOD, ETC. HAS BEEN INSTALLED. VEGETATION SHOULD BE PROTECTED AND LIFTED TO PLACE MULCH UNDERNEATH AND BETWEEN PLANTINGS.

MAINTENANCE

3. THE CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING PLANTS DURING THE PLANT ESTABLISHMENT PHASE.

Limited 30 Year Commercial Coating Warranty

Limited Warranty

Custom-Bilt Metals (hereinafter "CBM") hereby issues the following Limited 30 Year Commercial Coating Warranty ("Limited Warranty") exclusively to the original Owner named in the Warranty Registration Form (hereinafter "Owner") subject to the terms and conditions listed below.

For a period of 30 years, and as long as Owner owns the building described in the Warranty Registration Form, CBM warrants that the paint on its coated steel or aluminum panels, flashing, flat stock and coil ("Material") will not:

- (a) Peel, check, chip or crack. These terms shall not mean alterations to the paint as a result of exposed raw edges, embossing, end cutting, cut edge exposure or such crazing or slight cracking as may occur on tightly roll-formed edges or brake bends at the time of forming pre-painted sheet.
- (b) Fade or change color in excess of five (5) units of color difference (Hunter ΔE) calculated in accordance with ASTM D2244-02, paragraph 6.2.2 CIEL*a*b*, 10° Observer, specular included. Color Change is measured on an exposed painted surface that has been cleaned of surface soils and chalk and then compared to corresponding values measured on the original or unexposed coated surface. Fading and color changes may not be uniform, depending on sun and atmospheric exposure and CBM does not warrant that color changes will be uniform.
- (c) Chalk or oxidize in excess of a numerical rating of eight (8) when properly maintained as described herein as measured in accordance with the standard procedures specified in ASTM D4214-98.

Remedy

The sole and exclusive remedy under this Limited Warranty shall be one of the following to be chosen in CBM's sole discretion: repair, recoating, refinishing or one replacement of failed Material. The term "replacement" does not include labor costs of Material removal, fabrication or installation. Any repair, recoating, refinishing, or replacement is limited to the Material only; CBM will NOT pay, or otherwise be responsible for, any costs associated with or related to anything else affixed to the Material or building's roof, including, but not limited, to solar panels or television antennas, without its written consent prior to sale. Any repair, recoating, refinishing or replacement **WILL NOT** restart the warranty period. If repair, recoating, refinishing or replacement is not practical, CBM may elect, at its sole option, to refund the original purchase price of the Material paid to CBM. After any refunding of the original purchase price, CBM will cease to have any obligations under this Limited Warranty.

THIS LIMITED WARRANTY SUPERSEDES AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND CBM HEREBY DISCLAIMS ALL SUCH WARRANTIES. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

THIS LIMITED WARRANTY ALSO SUPERSEDES AND IS IN LIEU OF ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY IN CONTRACT OR TORT, WHETHER OR NOT ARISING FROM CBM'S NEGLIGENCE, ACTUAL OR IMPUTED, OR STRICT LIABILITY. THIS LIMITED WARRANTY SHALL BE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST CBM ARISING OUT OF OR RELATED TO THE MATERIAL OR THE ORDER OR DELIVERY OF THE MATERIAL.

UNDER NO CIRCUMSTANCES SHALL CBM BE LIABLE FOR ANY INCIDENTAL, SPECIAL, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION LOSSES, OR LOST USE OF THE BUILDING OR ITS CONTENTS, EVEN IF CBM HAS RECEIVED NOTICE OF THE POSSIBILITY OF SUCH DAMAGE OR LOSS. OWNER SPECIFICALLY WAIVES THE RIGHT TO ATTORNEY'S FEES, INCLUDING ANY CLAIM FOR ATTORNEY'S FEES PURSUANT TO CHAPTER 38 OF THE TEXAS CIVIL PRACTICE AND REMEDIES CODE, ANY OTHER STATUTE OR THE COMMON LAW.

CBM'S TOTAL LIABILITY FOR ANY AND ALL CLAIMS OF ANY KIND (WHETHER BASED ON CONTRACT, TORT OR OTHERWISE) ARISING OUT OF OR RELATING TO THE MATERIAL OR THE ORDER OR DELIVERY OF THE MATERIAL SHALL NOT EXCEED THE ORIGINAL PURCHASE PRICE OF THE MATERIAL PAID TO CBM.

Conditions, Limitations and Exclusions

1. This Limited Warranty shall apply only to products used in the Continental United States, Hawaii, Alaska, Canada and Mexico.
2. This Limited Warranty is extended only to the original Owner as stated in the Warranty Registration and shall not inure to the benefit of any other party. This Limited Warranty is non-transferrable and non-assignable.
3. This Limited Warranty applies to Material shipped by CBM after April 1, 2012.
4. The Material covered under this Limited Warranty must be installed within six (6) months from date of purchase.
5. This Limited Warranty does not cover industrial applications, including, but not limited to, steel mills, power generating stations, oil fields, oil refineries, ore mines, chemical plants, paper mills or other unusual environmental exposure. Customer is required to consult with CBM before installation of any industrial application to determine if a Site Specific Warranty may be available at CBM's discretion.

6. This Limited Warranty excludes any areas of the Material that are within 3/4-inch of any edge that has been cut subsequent to the application of the paint to the substrate.
7. This Limited Warranty is conditioned upon the proper installation of the Material. The Material must be installed on a surface which allows for adequate circulation and on which no standing water accumulates. CBM does not warrant Material that is in contact with, or subject to, runoff from lead, copper, pressure treated, green or wet lumber or wet insulation. The Material must not be installed on vertical trim or sidewall surface of an external architectural, commercial pre-engineered building. CBM does not warrant Material which has been modified without CBM's express written approval or which has been improperly used or applied. CBM does not warrant deterioration or damage to the panels caused directly or indirectly by panel contact with sealants or fasteners or by overdriving the fasteners. Selection of Material and proper long-lasting fasteners rests solely with Owner or his/her installer. In no event shall any information provided by CBM to assist in the selection of fasteners be an endorsement or warranty of performance of the Material with those fasteners, and Owner expressly acknowledges that Owner and his/her installer are not relying on such information in making any decision.
8. This Limited Warranty is limited to exposure to normal atmospheric conditions which term excludes corrosive or aggressive atmospheres such as those contaminated with chemical fumes, ash, volcanic smog, cement dust, animal waste, constant fresh water spray, chemical deposits or salt spray, including proximity within one thousand five hundred (1,500) feet of salt water.
9. This Limited Warranty does not cover Material located within one thousand five hundred (1,500) feet of a saltwater environment. For Material located further than one thousand five hundred (1,500) feet but closer than one (1) mile from salt water, Owner is required to perform annual maintenance of the building in the form of a sweet water rinse (tap water). Owner is required to keep records of such maintenance for the Limited Warranty to be enforceable.
10. CBM shall have no obligation under this Limited Warranty unless CBM has been paid in full for all Material covered by this warranty.
11. In no event will the original warranty period be extended by a warranty claim. The warranty for any repaired or replaced Material shall only be for the remainder of the original warranty period applicable to Owner.
12. This Limited Warranty does not extend to or cover damage to the Material caused by or as a result of: (a) improper handling, packaging, shipping, contamination, modification or storage of the painted Material prior to installation; (b) improper forming, fabrication or cutting of the Material; (c) improper installation of the Material, including, but not limited to, improper handling, scratching or abrading during or after installation; (d) mechanical damage or edge corrosion; (e) inadequate or improper drainage, venting or insulation, including, but not limited to, vapor barriers; (f) ponding or cascading water from upper to lower roof areas on the roof panels or components; (g) abusive foot traffic; (h) improper or deficient cleaning or maintenance, including, but not limited to, the use of high pressure washing systems; (i) any external contaminant or condition, including, but not limited to, chemical fumes, salt spray, animals, animal waste, vegetation, dirt, gravel or metal debris; (j) deterioration or failure of building components, including, but not limited to, the roof substrate, walls, mortar, HVAC units, or walk ways; (k) movement or settlement of the building; (l) condensation or infiltration in, through, or around the walls, copings, rooftop, flashing, hardware or equipment, building structure or underlying or surrounding materials; (m) any acid, oil, harmful chemical, chemical or physical reaction and the like which comes in contact with the Material, (n) additions, alterations (including antennas, snow guards and/or solar panels) or repairs to the Material that are not completed in accordance with standard roofing specifications by a licensed roofing contractor; (o) reactions due to dissimilar metals; (p) natural forces, disasters, or acts of nature, including, but not limited to, winds in excess of 55 MPH, fires, hurricanes, tornadoes, hail, wind-blown debris, lightning, earthquakes, volcanic activity, atomic radiation, insects, animals or animal droppings; (q) any act, conduct or omission by any person or action caused by any person's negligence; or (r) act(s) of war, terrorism or vandalism.

Registration

This Limited Warranty shall not become effective unless and until it is registered with CBM by returning the completed registration form within 150 days of the date of purchase. If registration is by mail, Owner shall mail signed copies by certified, return receipt mail, to verify delivery to CBM at 1333 Corporate Drive #103, Irving, TX 75038.

Maintenance

This Limited Warranty is conditioned upon proper maintenance of the Material which includes regular cleaning with sweet water rinses (tap water) or with 1/3 cup of Tide or other detergent containing less than 0.5% phosphate dissolved in one gallon of water followed immediately by a clear water rinse. The Material must not be cleaned with abrasive or chemical cleaners. All Material exposed to the weather, including the underside of any panel overhang, must be included in the cleaning. For cleaning instructions, please refer to CBM's Material Care and Maintenance Guide. **For all installations closer than one mile to salt water, Owner is required to perform annual maintenance in the form of sweet water rinses (tap water). Owner is required to keep records of such maintenance for the warranty to be enforceable. This maintenance is to be documented with written reports and date stamped pictures.**

Notice

Owner shall inspect Material received from CBM prior to installation so as to mitigate expenses related to repairing, recoating, refinishing or replacing defective Material. Any claim arising from an alleged Material defect or for any other cause whatsoever shall be deemed WAIVED by Owner unless written notice thereof is given to CBM within thirty (30) days after discovery of any alleged defect and within the applicable warranty period. All written notices given under this Limited Warranty shall be either personally delivered or sent by registered or certified mail, postage prepaid, return receipt requested, to Custom-Bilt Metals, 1333 Corporate Drive #103, Irving, TX 75038. To be effective, Owner's notice shall include such records as will enable CBM to establish the CBM invoice number and the date and address of installation.

Investigation

CBM has no obligations under this Limited Warranty unless and until CBM has been allowed a reasonable opportunity to inspect and, if necessary, obtain a sample of the Material.

Governing Law and Venue

This Limited Warranty shall be governed by and construed in accordance with the laws of the State of Texas without regard to choice of law rules. Any dispute, controversy or claim arising out of, related to, or in connection with this Limited Warranty shall be submitted to mediation prior to the commencement or filing of any action or legal claim in any forum. IN THE EVENT THAT OWNER AND CBM DO NOT RESOLVE THE DISPUTE, CONTROVERSY OR CLAIM IN MEDIATION, ANY ACTION, PROCEEDING OR LAWSUIT ARISING OUT OF OR RELATED TO THIS LIMITED WARRANTY MUST BE BROUGHT SOLELY AND EXCLUSIVELY IN THE STATE OR FEDERAL COURTS OF DALLAS COUNTY, TEXAS. VENUE IS IMPROPER IN ANY OTHER JURISDICTION. BY ACCEPTING THIS LIMITED WARRANTY, OWNER IRREVOCABLY CONSENTS TO THE JURISDICTION AND EXCLUSIVE VENUE OF THE ABOVE-IDENTIFIED COURTS.

Modification, Waiver and Severability

This Limited Warranty cannot be amended, altered or modified in any way except in writing signed by an authorized officer of CBM. No other person has any authority to bind CBM with any representation or warranty whether oral or written.

CBM's failure to enforce any of the terms or conditions stated herein shall not be construed as a waiver of any such condition or of any other term of this Limited Warranty. If any portion of this Limited Warranty is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force.

The supplier of the paint coating applied to CBM Material and the applicator of the paint coating have made certain warranties to CBM which are the same as (or substantially similar to) the warranties made by CBM under this Limited Warranty. This Limited Warranty shall be of no further force or effect if such supplier, or its successors or assigns, can no longer perform its obligations under the coating system warranties made to CBM.

End of Warranty

DUVALL FIELD CONCESSION/RESTROOM

SECTION 13 34 23 - PRE-ENGINEERED RESTROOM BUILDING

~~Specification Date: 4/11/2016~~

PART 1: GENERAL

1.1 SUMMARY

- A. The work shall include installing the structural, mechanical, and electrical building components as a complete, pre-designed, packaged restroom building as shown on drawings and as specified herein.

Note: The City of College Park has purchased the building package for installation by the bidding contractors.

- B. See Appendix: Romtec Scope of Supply and Design Submittal)

Note: The Scope of Supply and Design Submittal (SSDS) is the controlling document for the building package supply. The SSDS takes precedence if there are any discrepancies with the following specification.

- C. See the specification below and the SSDS for the materials supplied by the installing contractor.

1.2 SCOPE

- A. Packaged restroom building and all associated design and engineering, with all listed components supplied by Romtec, Inc., hereafter designated as the **building supplier**. The **building supplier** shall be a single source design, engineering, and manufacturer who shall supply the packaged restroom building and meet all the following scope requirements. Romtec's building package is defined in the Scope of Supply and Design Submittal that has been included in the project specifications.
- B. The contractor is responsible for building installation, hereafter designated as the **building installer**. **Building installer** work will generally include: site preparation and grading, excavations for structures, backfill and/or structural backfill, foundation and pad construction, and building construction.

*Note: Romtec Inc. does not serve as the **building installer**. Romtec Inc. is only the packaged restroom **building supplier**.*

- C. Typical fasteners such as nails, staples, and screws shall be supplied by **building installer**. Atypical fasteners shall be supplied by **building supplier**.

1.3 WARRANTY

- A. The building and all its associated components shall be warranted against defects in materials and workmanship for a period of not less than one (1) year from date of final acceptance.

1.4 MAINTENANCE

- A. The **building supplier** does not supply maintenance for the packaged restroom building.

PART 2: PRODUCTS

2.1 BUILDING DESCRIPTION

- A. Refer to plans for quantities, dimensions, locations, and installation methods for the materials and items described in this section.
- B. Building dimensions shall match what is indicated on drawings.

2.2 CAST IN-PLACE CONCRETE

- A. All equipment, labor, trades and materials shall be supplied by **building installer**.
 - 1. Includes all materials and labor for foundations/footings, interior slabs, exterior/entry slabs, and sidewalks.
- B. Engineered fill shall be ¾" minus crushed aggregate around footings, foundations, and slabs as required.
- C. Slab vapor barrier shall be 6-mil continuous plastic under the concrete slab.
- D. The foundation shall be installed as designed with all cast in-place concrete poured to dimensions specified in final plans.
 - 1. Footings will be built as shown on the plans.

2. Minimum compressive strength of 3000 psi at 28 days, 4+/-1" slump, with max 3/4" aggregate, cured in accordance with ACI 308.
 3. Slabs shall have a fine broom finish with joints required in flat work as shown on plans.
 4. Steel rebar shall be installed as specified in final plans.
- E. Concrete slab sealer shall be a water-based transparent curing, sealing and dust proofing compound with two (2) coats to be applied per manufacturer's instructions.

2.3 WALLS

- A. Concrete Masonry Units (CMU) shall be supplied by **building installer**.
1. Walls shall be constructed of 8"W x 16"L x 8"H mortar joint concrete masonry units (concrete blocks).
 2. Blocks shall be manufactured to ASTM C90 designation for load bearing concrete masonry units.
 3. Blocks have split-face exterior and smooth-face interior wall surfaces.
 4. Block color shall be EP Henry Earthtone Line, Color 24-B as supplied by Meier, Hyattsville, MD.
 5. Interior of exterior wall finish shall be insulation covered with FRP supplied by **building installer**.
 6. Interior walls without FRP finish shall be latex epoxy paint supplied by **building installer**.
- B. Masonry (concrete) grout shall be supplied by **building installer**.
1. Grout shall have a minimum compressive strength of 2500 psi at 28 days, 9+/-1" slump, with max 1/2" aggregate.
 2. Fine or coarse grout may be used in accordance with 2009 UBC.
 3. All CMU must be fully grouted and may not be wetted.
- C. Rebar in walls shall be supplied by **building installer**.
1. All walls have # 4 and # 5 rebar, see plans for spacing.
 2. All rebar used in building must meet ASTM A615 manufacturing standards and is to be placed per plans.

- D. Door system components shall be supplied by **building supplier**.
1. Door shall be Steelcraft® SL-20 Series honeycomb, 20-gauge galvanized steel, and powder coated black.
 2. Door frame shall be pre-welded Steelcraft® 3-Sided flush frame, 16-gauge galvanized A-60 steel, and powder coated black.
 3. Masonry door clips (3/16" dia.) for door frame shall be fitted between the doorframe and concrete blocks to bond frame to wall. Door clips allow full internal grouting of the frame during installation.
 4. Door hinge shall be ANSI A5112 with non-removable pin and two ball bearings.
 5. Door closer shall have double heat treated steel tempered springs, and a triple heat treated steel spindle.
 6. Kick plate shall be 34" x 10" with stainless steel finish, preinstalled on door.
 7. Threshold shall be 36" x 4".
 8. Door sweep shall be anodized aluminum.
 9. Door locks shall be ADA compliant, cylinder deadbolt with stainless steel pull plate and handle.
 10. Louvers shall be 18" x 18" and powder coated black.
- E. Steel framed gable windows shall be supplied by **building supplier**.
1. Steel frames shall be powder coated black.
- F. 6'-0" x 4'-0" stainless steel roll-up concession window with stainless steel countertop shall be supplied by **building supplier**.
- G. Restroom partitions shall be supplied by **building supplier**.
1. Partitions shall be solid phenolic core high pressure decorative laminate constructed of melamine face sheets bonded under heat and high pressure phenolic resin.
 2. Partition color shall be Gray Sand.
- H. Sherwin Williams non-sacrificial anti-graffiti coating shall be supplied by **building supplier**.
- I. Shelving, counters and storage cabinets shall be supplied by **building installer**.

2.4 ROOFING

- A. Roof shall be supplied by **building supplier** except where noted.
- B. SIP panels with tongue & groove decking finish.
 - 1. Decking shall be 1x6 V-edge deck boards, select deck Douglas fir.
 - 2. Sealant shall be supplied by **building installer**.
- D. Roofing-metal shall be Custom-Bilt Metals, 29-gauge metal roofing, with 36 in. coverage width.
 - 1. Roofing package shall include inside and outside foam closures, matching trim (eaves, gables and ridge) and fasteners, sheet metal flashing (all sides), and 30# felt (under metal).
 - 2. Roofing color shall be Pebblestone Clay.
- E. Deck mount skylights shall measure 15" x 46".
- F. Timber truss and columns roof extension.
 - 1. Truss plates shall be powder coated black.

2.5 PLUMBING

- A. Plumbing rough-in, installation and trim shall be supplied by **building installer**.
 - 1. All underground water service and sewer drain(s) from building to be as specified in final site plan.
 - 2. All floor drains shall be as shown on final building plans.
 - 3. Building water shutoff valve, drain, and all rough piping shall be as shown on final building plans. Final location to be set onsite.
 - 4. Minimum water pressure at toilet and urinal flush valves shall be 50 psi. with minimum pipe sizing as per 2009 Uniform Plumbing Code Section 610.
 - 5. Install the supplied fixtures and all other plumbing supplies as specified in final plans.
- B. Floor drain shall be supplied by **building installer**.
- C. Water line drain valve shall be supplied by **building installer**.
- D. Sewer line backflow check valve shall be supplied by **building installer**.

2.6 RESTROOM FIXTURES

- A. Restroom fixtures shall be supplied by **building supplier**.
- B. Toilets shall be floor mounted, white vitreous china.
 - 1. Flush valve shall be a chrome manual lever with ADA compliant metal oscillating non-hold-open handle.
- C. Urinals shall be top supply, bottom discharge, and white vitreous china.
 - 1. Flush valve shall be a chrome manual lever with ADA compliant metal oscillating non-hold-open handle.
- D. Lavatory shall be 19 in. x 17 in. white vitreous china, wall hung with anti-splash rim and concealed front overflow.
 - 1. Faucet shall have a pivot action lever style handle, temperature control through 180 degree arc, and third party certification to meet ASME A112.18.1M.
- E. Mop service basin 63M with faucet.
 - 1. Mop and broom hangers shall be supplied by **building installer**.
- F. Grab bars shall be Brey-Krause Mfg. Co. D-Series.
- G. Toilet paper dispenser shall be white with two roll capacity.
- H. Soap dispenser with refillable bottle, wall mount, black 1000mL.
- I. Mirrors shall be 18" x 36".
- J. Napkin disposal shall be stainless steel and wall mount.
- K. Toilet seat cover dispenser shall be stainless steel and wall mount.
- L. Drinking fountain shall be wall mounted, 18-gauge, type 304, stainless steel, refrigerated with safety bubbler.

2.7 CONCESSION FIXTURES

- A. The following concession fixtures shall be supplied by **building supplier**.
 - 1. Hand wash sink shall be 20 in. x 18 in. white, wall hung with anti-splash rim and concealed front overflow with faucet.
 - 2. Stainless steel 3-bay concession sink with pre-rinse faucet.
 - 3. **Appliances are existing and owned by the city.**

2.8 ELECTRICAL

- A. Electrical rough-in, installation and trim shall be supplied by **building installer**.
1. All underground and/or overhead service to building shall be as specified in the final site plan.
 2. Electric meter base and all rough wiring, switches, plugs and circuit breakers shall be as shown on final plans. The **building supplier** does not supply the meter base and meter.
 3. **Building installer** is responsible for all necessary wire, connectors, grounding, conduit etc. to install the components and meet national and local code. The installation of these components shall comply with all state and/or local codes.
- B. Light fixtures shall be supplied by **building supplier**.
1. Wall mounted LED light fixtures shall have a durable polycarbonate housing and high-impact polycarbonate refractor.
- C. 30 gallon electric tank water heater with 2 gallon expansion tank shall be supplied by **building supplier**.
- D. Mechanical exhaust system shall be supplied by **building supplier**.
- E. Hand dryers shall be supplied by **building supplier**.
1. Surface mount, stainless steel hand dryer with electronic infrared detection sensor with fully adjustable potentiometer. Automatic shut-off after 60 seconds.
- D. Wall heaters shall be supplied by **building installer**.
- E. Main breaker panel shall be supplied by **building supplier**.
1. Breaker Panel shall be 200 Amp, three-phase.
- Note: This panel has been sized to accept only the loads of the **building supplier** electrical fixture package. The **building supplier** has the right to modify the main breaker panel to be most efficient based on any changes.*

2.9 OTHER MATERIALS & EQUIPMENT

- A. Unless otherwise specified, the following products and materials are NOT supplied by Romtec.
1. All items not listed in Romtec Products.
 2. Any item listed as supplied by “installer”, “contractor”, “owner”, or “others”.

B. Unless specified in the plans or submittals, Romtec does not supply the following:

1. Building installation
2. Asphalt paving
3. Masonry pavers
4. Sidewalks
5. Landscaping
6. Site grading
7. Cast-in-place concrete foundations, footings, interior slabs and exterior/entry slabs
8. Concrete slab sealer
9. Mortar
10. Concrete grout
11. Rebar
12. Latex epoxy paint
13. Caulk for siding
14. Plumbing rough in, installation and trim
15. Electrical rough in, installation and trim
16. Drain valves and backflow check valves
17. Branch circuit breakers
18. Switches & outlets
19. Fluorescent tubes for light fixtures
20. Wall hangers for toilets
21. Typical fasteners; for example roofing nails, staples, etc.
22. Fasteners not included in product packaging
23. Irrigation Equipment
24. Gutters and downspouts
25. Fire alarm and fire suppression equipment
26. Lighting equipment not attached to the building
27. Clear coat finish for all decking, glulam beams, posts, and extensions
28. All other items indicated on final plans or required by building codes which are not specifically stated as supplied by Romtec.

PART 3: EXECUTION

3.1 SPECIAL INSPECTION

- A. If required, special inspection shall be ***owner supplied***.
- B. If special inspection is required per the building department or other regulatory agencies, then the ***building supplier*** can assist but NOT provide this service.

3.2 INSTALLATION

- A. All components to be installed according to the plan sets and/or manufacturer's instructions.

3.3 OPERATION & MAINTENANCE MANUALS

- A. Upon installation, do not throw away the Operations & Maintenance manuals that are provided by some manufacturers in their packaging. Requests for additional copies from the ***building supplier*** will result in subsequent charges.