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• A D D E N D U M # 2 •

TO ALL PLAN HOLDERS	DATE	JULY 10, 2015	JOB NO.:	2302-033
	ATTN	Plan Holders		
	RE	City of Newport Safe Haven Hill Tsunami Retrofit		

The following Addendum changes should be made to the referenced sections of the Contract Documents:

Clarification/Notifications Items

1. All utility relocation work, including but not limited to power poles, communication poles, and telephone pedestals, shall be done by the local utility company.
2. Sheet E1 where "NEW COBRA LIGHT POLE BASE BY PUD" is shown, this indicates that the wood pole and light arm will be provided and installed by Central Lincoln PUD and the handhole and associated conduit will be provided and installed by the contractor.
3. Sheet E1, "NEW ACORN LIGHT POLE BASE", indicates the light pole mounting base will be supplied by the City and installed by the contractor and the handhole and associated conduit will be supplied and installed by the contractor.
4. The handrail post on Detail A/D5 shall be set with native sand backfill.
5. The hiking trail shown on C5 shall be a maximum width of 3'. No additional clearing/widening for equipment shall be allowed.

Addenda Items

Volume 2 – Technical Specifications

1. Section 02775 Sidewalks, Driveway Approaches and Sidewalk Ramps- 4.01 Measurement and Payment- Add line "C. Measurement and Payment for ¾" -0 Aggregate Base material shall be incidental to the work. No additional compensation will be allowed."
2. Section 02720 Aggregate Base- 2.01 Materials- Add line "E. Clean Crushed Drain Rock Retaining Wall Backfill shall be ¾" – 3" angular crushed rock conforming to OSS Section 00640. Use clean, hard, durable aggregates, reasonably well-graded from the maximum size to minimum size.
3. Section 02720 Aggregate Base- 4.01 Measurement and Payment- Add line "F. Payment for Clean Crushed Drain Rock Retaining Wall Backfill will be incidental to retaining wall work, no additional compensation will be provided."

END OF ADDENDUM

Respectfully,

Civil West Engineering Services

Ralph R. Wenziger, P.E.

Project Manager

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SECTION 02720 – AGGREGATE BASE

PART 1 GENERAL

1.01 SUMMARY

- A. This section includes all work necessary for furnishing, placing, compacting and grading aggregate base and gravel shoulder on the prepared surface to the lines, grades, thicknesses and cross sections shown on the Plans or where indicated.

1.02 REFERENCES

- A. ASTM D698 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort
- B. OSS – Oregon Standard Specifications for Construction, most recent Edition.

1.03 SUBMITTALS

- A. Contractor shall furnish sample of proposed material for visual inspection by Engineer and Owner for approval prior to importing to site.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Aggregate base course rock shall be 1 ½" – 0 angular crushed rock conforming to OSS Section 00640. Use clean, hard, durable aggregates, reasonably well-graded from the maximum size to dust.
- B. Aggregate base leveling course rock shall be ¾" – 0 angular crushed rock conforming to OSS Section 00640. Use clean, hard, durable aggregates, reasonably well-graded from the maximum size to dust.
- C. Aggregate base shall conform to OSS Section 00640 or shall be obtained from a source pre-approved by the Owner.
- D. Geo-Fabrics
 - 1. Separation liner shall be provided beneath aggregate base and native bearing soil and shall have a mean average roll value (MARV) strength properties meeting the requirements of AASHTO M 288-2000 Class 2 geotextile (geotextile for separation) with a permittivity greater than 0.05 sec.⁻¹ and an apparent opening size less than 0.6 mm.
 - 2. Specification sheet to be provided on selected geotextiles for approval prior to order and delivery to site.
- E. Clean Crushed Drain Rock Retaining Wall Backfill shall be ¾" – 3" angular crushed rock conforming to OSS Section 00640. Use clean, hard, durable aggregates, reasonably well-graded from the maximum size to minimum size.

PART 3 EXECUTION

3.01 WORKMANSHIP

- A. Sequencing and Scheduling –
 - 1. Notify Owner 48-hours prior to any road closures and or disruption of flow of traffic.
 - 2. Notify Engineer 48-hours prior to placement of aggregate base to permit inspection.
- B. Excavate to proper sub-grade depths or elevations as shown on the Plans or as necessary to provide required thickness of aggregate base.
- C. Preparation of sub-grade – Provide a firm sub-grade surface on which aggregate base is to be placed.
 - 1. Sub-grade Over Excavation & Replacement – Remove and dispose of any unstable or unsuitable materials as directed by the Owners representative or Engineer. Replace any excavated materials with successive lifts of aggregate sub-base or other materials as directed by the Owners representative or Engineer. Grade and compact, as required, to provide a smooth surface that conforms to the surrounding grades.
 - 2. Sub-grade Compaction – compact exposed sub-grade by wetting or other means until it is firm and unyielding, per OSS 00344.45.
 - 3. Place geo-fabric separation liner over the entire area subgrade to provide a bridge over any soft native bearing soils. Liner shall be placed smooth and without wrinkles or folds in the direction of filling with a minimum 2 foot overlap between adjacent rolls.
- D. Mixing – Mix to provide a homogeneous mixture of unsegregated and uniformly dispersed materials. Add water or aerate, as necessary, during mixing to achieve optimum moisture content $\pm 2\%$ during placement.
- E. Placement
 - 1. When, in the judgment of the Engineer, the weather is such that satisfactory results cannot be achieved, operations shall be suspended. Owner shall not be liable for damages or claims of any kind or description due to the suspension of operations by the Engineer.
 - 2. Aggregate base materials shall be deposited on the sub-grade at a uniform quantity per linear foot so that the Contractor will not resort to spotting, picking up, or otherwise shifting material. Segregation of aggregates shall be avoided and material so spread shall be free of pockets of coarse or fine materials.
 - 3. Place aggregate base materials such that when compacted and finish graded it will conform to the grades and sections shown on the Plans. Aggregate base materials shall be placed in maximum lifts of 6-inches, or as approved by the Engineer. Place each layer in spreads as wide as practical and to the full width of the course before a succeeding layer is placed.
 - 4. Place shoulder rock materials such that when compacted and finish graded it will match final pavement grade. Shoulder rock materials should be 1 foot wide and depth as needed, or as approved by the Engineer.
- F. Compacting and Shaping

1. Aggregate base materials shall be compacted by self propelled, smooth drum, static or vibratory rollers capable of achieving the specified compaction.
 2. Shape and maintain the surface of each layer of aggregate base during compaction operations such the surface of each layer is parallel to the established grade and cross section for the finished surface within 0.05 foot.
 3. Aggregate base materials shall be compacted to 95% maximum dry density as determined by the ASTM D698 test method.
- G. Comply with Section 02321, Compaction Testing.

PART 4 SPECIAL PROVISIONS

4.01 MEASUREMENT AND PAYMENT

- A. Measurement and payment for Compacted 1 1/2" – 0 angular crushed rock Aggregate Base material shall be on a tonnage basis at the amount stated on the Bid Form. Payment shall include compensation for materials, hauling, placing, compacting, testing and all other incidental work.
- B. Measurement and payment for Compacted 3/4" – 0 angular crushed rock Aggregate Base material shall be on a tonnage basis at the amount stated on the Bid Form. Payment shall include compensation for materials, hauling, placing, compacting, testing and all other incidental work.
- C. Measurement and payment for geo-fabric separation liner shall be on a square yard basis at the amount stated on the Bid Form. Payment shall include compensation for materials, placement of materials and all other incidental work.
- D. Payment for Asphalt Concrete pavement shall be made in accordance with Section 02740.
- E. Payment for Foundation Stabilization shall be made in accordance with Section 02315.
- F. Payment for Clean Crushed Drain Rock Retaining Wall Backfill will be incidental to retaining wall work, no additional compensation will be provided.

END OF SECTION

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SECTION 02775 – SIDEWALKS, DRIVEWAY APPROACHES AND SIDEWALK RAMPS

PART 1 GENERAL

1.01 SUMMARY

- A. The work in this section includes the furnishing of all labor, materials, equipment and performing all work for the placement of new sidewalks, driveway approaches and sidewalk ramps using Portland cement concrete.

1.02 RELATED SECTIONS

- A. Section 02770 Curbs and Gutters
- B. Section 03300 Cast in Place Concrete

PART 2 PRODUCTS

2.01 MATERIALS

- A. Concrete shall be as specified in Section 03300.
- B. Expansion and joint filler shall be ½-inch thick preformed asphalt fiberboard conforming to ASTM D994.
- C. Poured joint sealer for expansion joints shall be polyurethane-base, non-sag elastomeric sealant, and gray in color. Sika Corporation "Sikaflex-1A" or approved equal.
- D. Handicap accessible ramps grades shall meet ADA Standards. Optional Calculation Tables for Point Elevations available in the Plan Details.
- E. If required or indicated on the plans, reinforcing steel shall be as specified in Section 03200.
- F. Aggregate base shall be as specified in Section 02720. If no specific size or grade is noted, furnish either 1"-0 or ¾"-0 as directed by the Engineer.
- G. Truncated Domes (Sidewalk Ramps) with detectable warning surfaces for sidewalk ramps shall be supplied by Armor-Tile, Detectable Warnings systems or other approved equal.

PART 3 EXECUTION

3.01 WORKMANSHIP

- A. Properly prepare bedding and foundations using appropriate materials and workmanship, depths, widths, and cross sections shown on the plans and details or as directed.
- B. Bring areas on which structures are to be constructed to established line, and make firm, dry and free of all unsuitable or deleterious materials before placing concrete. Existing concrete surfaces shall be clean and moist at the time of placing new concrete.
- C. Forms shall have sufficient strength to resist the pressure of the concrete and to prevent leakage. Forms shall extend for the full depth of concrete and shall be adequately braced. Forms shall be cleaned and coated with an appropriate release agent before concrete is placed against them. Face forms shall be removed as soon as possible to

- permit finishing of face. Front and back forms shall be removed, after concrete has set, without damage to the concrete.
- D. Concrete shall be deposited into the forms without segregation and then tamped and spaded for complete consolidation. Mechanical vibration may also be used.
1. Sidewalks shall be 4-inches thick Portland cement concrete placed on a minimum of four (4) inches of compacted $\frac{3}{4}$ "-0 aggregate base material and shall match existing sidewalks at limits of replacement.
 2. Handicap accessible ramps grades shall meet ADA Standards.
 3. Residential driveway approaches shall be a minimum of 6-inches thick Portland cement concrete as shown in project Details placed on a minimum of two (2) inches of compacted $\frac{3}{4}$ "-0 aggregate base material.
 - a. No rebar or wire mesh is required for residential driveways.
 - b. Transition flares shall be constructed to the same standards as residential driveway approaches.
 4. Commercial driveway approaches shall be a minimum of 8-inches thick reinforced Portland cement concrete as shown in project Details placed on a minimum of two (2) inches of compacted $\frac{3}{4}$ "-0 aggregate base material.
 - a. Transition flares shall be constructed to the same standards as residential driveway approaches.
 5. Scored joints shall be required at 5-foot centers.
 6. Protect and keep moist during curing.
- E. Joints shall be placed at appropriate intervals for the section replaced. Joints shall be the preformed filler type and shall be not less than $\frac{1}{2}$ inch wide and placed flush or no more than $\frac{1}{8}$ inch below the concrete surface.
- F. Construct suitable connections between new and existing concrete where existing driveways, walks, and other structures are cut back to permit the new construction or where the new construction abuts existing concrete. Unless shown or directed, otherwise, furnish and place minimum $\frac{1}{2}$ inch thick preformed expansion joint filler between new and existing concrete.
1. Between driveways, walks, monolithic curbs and sidewalks, and surfacing, provide expansion joints:
 2. Between driveways and concrete pavement.
 3. Transversely in walks opposite expansion joints in adjoining curbs and elsewhere so the distance between joints does not exceed 45 feet.
 4. Transversely in walks at a distance of 16 feet to 8 feet from the ends of walks which abut curbs.
 5. Around poles, fire hydrants, posts, boxes, and other fixtures which protrude through or against the structures.

- G. Stairs
 - 1. Provide expansion joints for stairs at the top and bottom landings as shown on the details.
- H. Surface Finishing
 - 1. Remove forms, if any, from structures after the concrete has taken its initial set and while the concrete is still green.
 - 2. Repair minor defects with mortar containing one part Portland cement and two parts sand. Do not plaster exposed surfaces.
 - 3. The top and face of the sidewalk shall be true and straight, free from humps, sags, or other irregularities. The surface shall not vary more than ¼ inch from the edge of a 12 foot long straightedge laid on the top or face of the structure, except in curves. Contractor shall furnish the straightedge and operate it for testing, if needed.
 - 4. Finish concrete surfaces to smooth and uniform texture by troweling, floating, and cross brooming. Lightly groove or mark surfaces into squares or other shapes to match markings on similar or existing surfaces in the vicinity, as directed.
 - 5. On all sidewalk ramps and accessible route islands, install truncated domes as shown. Place according to the manufacturer's recommendations.

3.02 Curing

- 1. Cure and protect concrete after placing and finishing.
- 2. Keep the concrete free from contact, strain, and public traffic for at least seven calendar days, or longer, as directed.
- 3. Do not apply curing compounds to the designated truncated dome areas of sidewalk ramps and accessible routes.

PART 4 SPECIAL PROVISIONS

4.01 MEASUREMENT AND PAYMENT

- A. Payment for Sidewalks, Driveway Approaches and Sidewalk Ramps shall be on a square foot basis for the amount as stated on the Bid Form for each type regardless of thickness. Payment shall include all necessary forms, backfilling, excavation, saw cutting, expansion joints, finishing and curing as required for complete placement of new sidewalks, driveways and ramps.
- B. Payment for Truncated Domes shall be on a square foot basis for the amount as stated on the Bid Form and shall include all necessary labor and materials for complete placement of the truncated domes.
- C. Measurement and Payment for ¾"-0 Aggregate Base Material shall be incidental to the work. No additional compensation will be allowed.

END OF SECTION

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