|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Key Number | Project Number | Project Name | | Contract Number | |
|  |  |  | |  | |
| Unique Mix Design Identifier | | Pay Item Number(s) | Class | | Supplier/Location |
|  | |  |  | |  |

Instructions: Please fill out all cells related to the item number. Attach all gradations, admixture material certificates, and testing information. Attach a completed ITD-0070 with the associated batch ticket.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Material** | **SSD Mix Design 1 CY (lbs)** | | **Relative Density**  **(SG)** | **Absorption %** | **Volume**  **(CF)** | **Source/Brand/Type** |
| Coarse Agg 1 |  | |  |  |  |  |
| Coarse Agg 2 |  | |  |  |  |  |
| Fine Agg 1 |  | |  |  |  |  |
| Fine Agg 2 |  | |  |  |  |  |
| Lithium Admixture |  | |  |  |  |  |
| Water |  | | 1.000 |  |  |  |
| Cement |  | |  |  |  |  |
| Fly Ash |  | |  |  |  |  |
| SCM |  | |  |  |  |  |
| Fiber |  | |  |  |  |  |
| **Admixture** | **Brand** | | | **Oz./ cwt** | **Oz/CY** | **Purpose** |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
| **Qualified Source:** | | **Source Identifier** | | **Yes** | **No** |  |
| Coarse Aggregate 1 | |  | |  |  |  |
| Coarse Aggregate 2 | |  | |  |  |  |
| Fine Aggregate 1 | |  | |  |  |  |
| Fine Aggregate 2 | |  | |  |  |  |
|  | | | | **Pass** | **Fail** |  |
| ASR Determination\* | | | |  |  |  |
|  | | | |  | |  |
| **Test** | | | | **Results** | |  |
| AASHTO T358 Electrical Resistivity (409) | | | |  | |  |
| ASTM C469 Static Modulus of Elasticity (409) | | | |  | |  |
| AASHTO T336 Coefficient of Thermal Expansion (409) | | | |  | |  |

\* Attach mitigation test results for failing ASR.

|  |  |
| --- | --- |
| Max Theoretical Density (lb/ft3) (no air) |  |
| Strength Required (psi) |  |
| Water/Cement Ratio (of design) |  |
| Slump (of design) |  |
| Design Air Content (%) (of design) |  |
| Final Set Time (ASTM T197) |  |
| Water Source |  |
| Curing Compound |  |
| Coarse Agg Size No. |  |
| Combined Gradation No. |  |
| Combined Aggregate Fineness Modulus |  |
| Aggregate Correction Factor (AASHTO T 152) |  |
| Sand Equivalent (SE) AASHTO T 176 |  |
| Percentage of Fracture AASHTO T335 Method 1 |  |
| **Self-Consolidating Concrete** |  |
| J-Ring |  |
| Static Segregation |  |

**Attachments**

🞏 Source Approval Letter

🞏 Admixture Certifications

🞏 Compressive Strength Testing

🞏 Gradations

🞏 Cement Certification

🞏 Fly Ash Certification

🞏 Other Testing

🞏 Completed ITD-0070 with the associated batch ticket.

|  |  |  |  |
| --- | --- | --- | --- |
| Comments | |  |  |
| Designed By | Date | Reviewed By | Date |
|  |  |  |  |