## PORTLAND CEMENT CONCRETE MIX DESIGN DOTD Form 03-22-0735

MATT MENU SELECTION - 30  LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  PORTLAND CEMENT CONCRETE MIX DESIGN	CRETE MIX DESIGN  CRETE MIX DESIGN  Ray 7469  Ray 7469
Material Material	Plant Code   C   S   O   S   D   O   O   O   O   O   O   O   O   O
od 🚺 1=Truck Mixer, 2=Central Mixer, 3=Site Mixer	Proj. Name Horish Kd. #25 F.A.P. BRD - DDIS (929)
	Mai Code Alk React Spac Gray Absom Factor Product Name
Compart 107/0 Lone Star Ind. Leeds, AL	1211.151 2.1.151
Slag	 
141134 TXI	
Coarse Aggr. 2	Set Retarder   Y = Yes N=A
Air Entrainer LILLI Chloride LIY = Yes N = No	Is N=No Non-Chloride \( \subseteq Y=Yes N=No \)
Superplasiicizer [	
Special Additive A L.	
Special Additive C L. L. L. L. L.	
Mixing Water:   1 = Clty, 2 = Well, 3 = Other	
Mix Proportions For One Cubic Meter (Cubic Yard) of Concrete	Departmental Use
2000 2000 2000 2000 2000 2000 2000 200	Vield 1200 m (CLe1200 J m) (cu ft)
Slad	Coment Factor (3314) kg/m³ (bag/cu yd)
Aggregate (SSD)	Fiy Ash
9 9	Slag
Water 1/17171 L (gal)	Water-Cement Ratio
(02)	Water-Cement Ratio
tor	Cement with 0.6% or less Alkalies required V= Y= Yes N= No
	•
Special Additive B Special Additive C Special Additive C	Date Received 12-12-12-98 ACCEPTED 17 REJECTED
Contractor Cypre 55 Const.	
Certified Concrete Technician Algonatule 101145	Strict Laboratory Engineer Code Date
	sentels sources, cement time, edinizium times, special additive. MATT codes & results of trial batches
Acceptance based on mix proposal meaning spec, requirements for year, centeen reach, research concern, special concern, speci	
Remarks	

The greater portion of this form is completed by the contractor. Once complete, the proposed mix design is submitted to the Project Engineer, then forwarded to the District Laboratory Engineer for approval.

Mix Designs are required when a plant produces Portland Cement concrete for structures or pavements for a Department project. A mix design is required for each class or type of concrete produced for each project and each plant. If any significant changes are made in the mixture, a new mix design must be submitted. This would include changes in materials, proportions, sources or modifications to equipment which may affect the mixture.

Refer to the Department's latest <u>Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures</u> for more detailed information and policy for PCC Mix Designs.

Metric / English M = MetricE = English This entry is located on the MATT Menu and is a required entry. Please note that results must be entered in the proper format based on the reporting unit selected.

PROJECT NO.

17/31-591-0104

Required entry, use leading zeros if necessary.

MATERIAL USE S

S (Pors)

Required entry, alphabetic. Enter <u>P</u> for Paving Concrete or <u>S</u> for Structural Concrete.

PLANT CODE C

C303

Required entry, alphanumeric. Must be a valid, certified ready mix plant.

MATERIAL CODE TYPE/CLASS 502 A

If material is a Paving Concrete, cross out CLASS and write in the pavement type. If the material is a Structural Concrete, cross out TYPE and write in the structural class.

Required entry, numeric. If Material Use is P, material code must be a valid PCC Paving for Surface Tolerance code. If Material Use is S, material code must be a valid Structural Concrete code.

Slip Form Paving

Y = Yes

N = No

Must be 'Y' or 'N'  $(Y = Yes \ N = No)$ Blanks are permitted and leading zeros may be omitted. Mixing Method

1 = Truck Mixer

2 = Central Mixer

3 = Site Mixer

Enter the appropriate mixing method. Must be 1, 2 or 3. Blanks are permitted and leading zeros may be omitted.

Parish Acadi
Proj. Name Parish
FAP No BRD - Or

Acadia Parish Rd.#25 BRD-0015 (929)

Record the FAP No., Project Name, and the Parish in which the project is located in the spaces provided

		MATER	RIALS				
Cement Fly Ash	Source Code Co. Name  O7/O LoneStor	Location Leeds, AL	Mat.Code	Alk. React. Y = Yes N = No	Spec.Grav.	Absorp. Factor	Product Name
Slag Fine Aggregate Coarse Aggr. 1 Coarse Aggr. 2	AI34 TXI AI34 TXI	Grangeville Grangeville		<b>¼</b> ¼i <b>¼</b> √i	2.64	Q.6 2.2	
Water Reducer Air Entrainer		Normal Set	Y = Yes N = No	Set Reta		= Yes = No	
Set Accelerator Superplasticizer	LLLL	Chloride L	Y = Yes N = No	Non-Chi		Yes _ No	
Special Additive A Special Additive B		•	سا		ست	· ·	· · · · · · · · · · · · · · · · · · ·
Special Additive C Mixing Wate		Other	تت	· · · · · · · · · · · · · · · · · · ·	ىىنى		

**Source Codes:** 

Source Codes for Cement, Fly Ash, Slag, Fine Aggr., Coarse Aggr. 1, Coarse Aggr. 2, Water Reducer, Air Entrainer, Set Accel., and Superplasticizer, must be active product source codes listed in the Qualified Products List Manual. Source Code fields for Special Additives A, B and C are reserved for additives or materials not identified above. Source codes for Special Additives must be a valid Non-QPL Approved Source code. Source Codes for Cement, Fine Aggregate and Coarse Aggregate 1 are required entries.

Company Name

Include the Source Company Name and Location in the spaces

& Location:

provided.

Admixtures:

Indicate the form of Admixture: Normal Set, Set Retarder, Chloride,

Non-Chloride (Y = Yes, N = No).

Material Codes: Codes for Cement, Fly Ash, Slag, Fine Aggr., Coarse Aggr.1, Coarse

Aggr.2, Admixtures and Special Additives A, B and C must all be valid

and active material codes in the proper Matt-Id. Material

Material Codes for Cement, Fine Aggregate and Coarse Aggregate 1 are

required entries.

**Alkali Reactive**: Required entries for Fine Aggr & Coarse Aggr 1. (Y = Yes, N = No)

**Spec. Grav. &** Indicate the proper Specific Gravity and Absorption Factor.

**Absorpt. Factor** Required entries for Cement, Fine Aggregate and Coarse Aggr 1.

Product Names: Product names must be indicated when materials for admixtures or

special additives are used.

Mixing Water: Indicate Source of Water Supply:

1 = City2 = Well

If Other, include source in space provided

3 = Other

Mix Proportions For One Cubic Meter (Cubic Yard) of Concrete Cement ا ka (اb) Fly Ash Slag Fine Aggregate (SSD) Coarse Aggregate 1 (SSD) Coarse Aggregate 2 (SSD) Water Water Reducer UNIT Air Entrainer mL (oz) kg, L, mL Set Accelerator J mL (oz) (lb, gal, oz) Superplasticizer mL (oz) Special Additive A Special Additive B Special Additive C Contractor <u>CUDIESS</u> ignature Certified Concrete Technician 1/121-1/121-1918 Date Submitted

**Mix Proportions:** Indicate the proper proportions for the design. Mix proportions for

Cement, Fine Aggregate and Coarse Aggregate 1 are required

entries.

Contractor, Cert.
Concrete Tech.:

Include the name of the Contractor and the signature of

the Cert. Concrete Technician.

**Contractor Code:** Required numeric entry. Must be a valid Contractor code.

**Date Submitted:** Required entry. Use leading zeros if necessary. (Ex. 08-23-98)

Departmental Use							
Yield	1/1.10101 m³ (cu ft)						
Cement Factor	1 <u>314</u> 1 kg/m³ (bag/cu yd)						
Fly Ash	└── % By Mass (Wt)						
Slag	└── % By Mass ( Wt)						
Water-Cement Ratio	1/17171 L/m³ (gal/bag)						
Water-Cement Ratio	1-1513  By Mass (Wt)						
Cement with 0.6% or less Alkalies required $V = Ves N = No$							
Date Received 121-1/21-98 ACCEPTED REJECTED							
Dignature District Laboratory Engineer	0304 12-12-98 Code Date						

The District Laboratory shall complete the <u>Departmental Use</u> portion of this worksheet verifying if the mix complies with specification requirements. Enter Date Received, Accepted or Rejected, Dist Lab Engr Submitter Code and Date of acceptance or rejection. The worksheet must be signed by the District Laboratory Engineer.

Enter any applicable comments pertaining to the mix in the <u>Remarks</u> field. This is a 54 character alphanumeric field.