

PROCEDURAL RESEARCH FOR REPORTING OF MATERIAL TEST DATA
USING COMPUTER SYSTEMS

THE MATT SYSTEM

VOLUME 1

USER MANUAL

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The most cumbersome effort during preparation of this manual was the drafting and typing of the various work-test report forms which are presented as exhibits in this manual. Repeated revisions meant "back to the drawing board." The patience of Ms. Debbie Melancon in drafting, and Ms. Helene Melancon and Ms. Marilyn Marlett in typing these various forms is acknowledged and appreciated.

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IMPLEMENTATION

A full-scale implementation of the MATT System went into effect in June 1978. This implementation was accomplished through a four-hour workshop in each of the nine districts and the Central Laboratory. An overview of the system was also presented to FHWA area engineers. The workshops were conducted through visual aids and User Manual.

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- + On-line* data entry
- + On-line error correction
- + On-line inquiry
- + Off-line processing of test data
- + On-line printing of exception and logging reports
- + On-line request for special reports

The above capabilities can be translated in terms of the following benefits the system will provide.

- + A continuous log of major construction materials and tests at a centralized location (computer tapes).
- + Assistance in monitoring construction projects for compliance with specifications.
- + Less duplication of effort and standardized reporting procedure relative to materials and tests.
- + Accelerated preparation of final certification (Form 2059).
- + Data base for review and analysis with respect to:
 - * Process variability
 - * Sampling and testing frequency
 - * Producer profiles
 - * Specification revisions and/or updates

Design and Development of the System

The design and development of the MATT System was accomplished through task groups' approach. These task groups (one each for soil and base course, concrete, and hot mix) consisted of personnel from the Construction, Materials, Research and Development, and Data Processing Sections. Their primary function was to define user requirements with respect to input forms, map formats and output reports for various materials. The task group approach

*On-line signifies that the operation is performed on the terminal at the instant. Off-line, on the other hand, signifies that the operation is performed some time later.

combines user needs and knowledge with data processing expertise to provide an efficient, user-oriented system.

The total MATT System is composed of a number of small subsystems. Figure 1 depicts the compositional make-up of the MATT System. The three subsystems, Project, Specification, and Name, provide support to the total system and are basic to the Material subsystem. In other words, no data can be entered on any of the materials included in the MATT System unless the project information, the specifications governing the materials to be used on that project, and the names of the project engineer, contractors, and material producers are already on file in the computer.

Each of the subsystems defined in Figure 1 is represented on the computer video terminal as a Map. Thus there is a Project Information Map, a Name Map, an Asphalt Cement Test Map, and so on. Furthermore, each map is a replica of the input data form. In other words, when you look at a certain map on the display screen, it will look similar to the input data form. This similarity provides for easy and rapid entry of test data.

As with any new system, there are some changes that the user will have to get accustomed to. One of the major changes is the input form for recording test data. All forms are combination work-report forms. Data from these forms will

be used as input to the computer through the district display terminals. Other changes are reflected in the size of the forms, which are 8-1/2" by 11", and the presence of grey-black open ended blocks for certain fields or items. Those in black signify mandatory entry. Another change will be the entry of numbered codes for project engineers, contractors, material suppliers, etc. In a majority of cases, form 800 will not be needed for sample identification. These and other changes are geared towards easy and rapid entry of test data with a minimum of transfer or duplication. Above all, the changes will standardize the reporting procedures throughout the state.

This manual discusses, in detail, each of the subsystems shown in Figure 1 with emphasis on how to fill out the input forms, how to access each map on the display terminal, how to enter test data, how to delete or update existing data and, finally, how to inquire upon existing data.

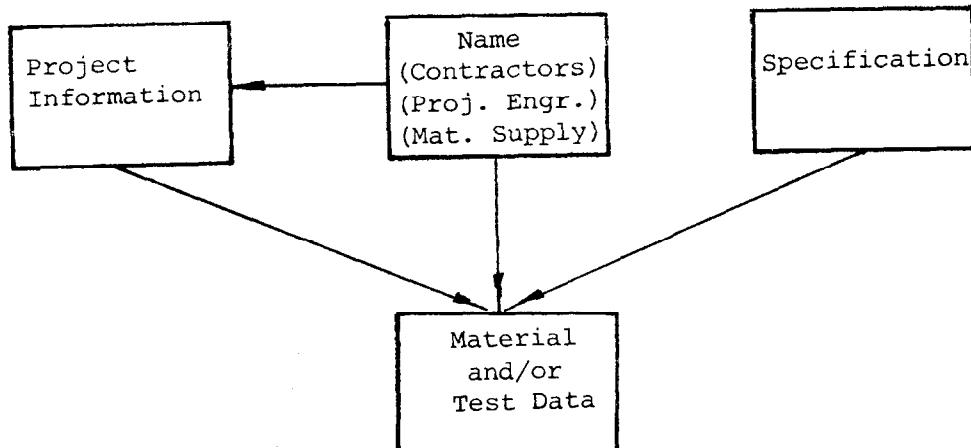


FIGURE 1

1 NAME SUBSYSTEM

As was discussed in the preceding section, there are some subsystems that provide basic support to the entire MATT System. Name is one such subsystem. The Name file contains names of persons responsible for monitoring construction projects (project engineers) and those responsible for providing construction services (contractors) and materials (material producers, suppliers, etc.). This file should be considered basic to the other support subsystem, namely, Project Information. If the names of persons or companies mentioned above are not in this file, you will not be able to enter data on the Project Information (PI) subsystem. This will become obvious later on when we discuss the PI subsystem.

The Name subsystem will let you browse through the existing records and, if need be, add to, inquire upon, update or delete any of these records. The Name file is subdivided into three categories of names, and each category has been assigned a Type Code as follows:

Type Codes { B = Contractors
 C = Material Suppliers
 D = Submitters

All contractors that provide contracting services for the State's construction program are assigned numeric codes from 0001 through 9999. A complete listing appears in Chapter 6.

The material suppliers are also listed as four-character codes as follows:

The first character stands for type of material, either Aggregate, Bituminous Material, Concrete, Hot Mix, or Reinforcing Steel, and is represented by letter A, B, C, H, or R, respectively. The second character in the four-character code represents the location as follows:

- 0 - Out-of-State
- 1 - Hammond District
- 2 - New Orleans District
- 3 - Lafayette District
- 4 - Shreveport District
- 5 - Monroe District
- 6 - Baton Rouge District
- 7 - Lake Charles District
- 8 - Alexandria District
- 9 - Chase District

The last two characters are assigned numbers. For suppliers of other materials, the first two characters are either numbers or letter designations and the last two numbers are sequentially assigned numbers. See Chapter 7 for complete listing.

The submitters are those individuals who submit samples for testing. The project engineers, who are principal submitters, are represented by the gang numbers to which they are assigned. Other submitters in this list include consulting engineers, prestress plant inspectors, laboratory engineers, etc. Each submitter is represented by a four-character code. Chapter 8 lists the various submitters.

Depending on whether you want to enter a new record, update or delete an existing record, or inquire upon or browse through existing records, you will need to know a one-letter Action Code as follows:

Action Codes

N = New Record I = Inquiry D = Delete U = Update L = List or Browse

The information that must be entered on the keyboard to bring the Name File to the display station screen varies with the Type Code and Action Code. Therefore, we will discuss each action code separately.

A. New Record (N)

Following is the step-by-step procedure for entering new records:

(1) Key the Transaction Line as follows:

- + For Type Code B, enter MTNM/B/N
- + For Type Code C, enter MTNM/C/N
- + For Type Code D, enter MTNM/D/N

After you have keyed any one of the above transaction lines,

(2) Depress the ENTER Key

(3) When the formatted map appears on the screen, key the following:

+ For Type Code B

* Name - 70 characters

+ For Type Code C

* Name - 70 characters

* Number - First two characters of the four character codes

+ For Type Code D

* Name - 70 characters

* Number - All four characters of gang number or sequence number

After you have performed any one of the above operations,

- (4) Depress ENTER Key

The map will appear on the screen with name and sequence number assigned for Type Codes B and C. If the entry is error free,

- (5) Depress CLEAR Key

B. Inquiry on Name File (I)

Since you want to inquire upon a certain record, you also need to key the sequence number of that record, along with the type and action codes.

- (1) Key the Transaction Line as follows:

- + For Type Code B, enter MTNM/B/I/Sequence Number
- + For Type Code C, enter MTNM/C/I/Sequence Number
- + For Type Code D, enter MTNM/D/I/Gang or Sequence Number

- (2) Depress the ENTER Key

If the record is found, it will appear on the screen showing the name corresponding to the sequence numbers above. If you desire a copy of this record, depress the PA2 Key.

If the record is missing in the files, a message "RECORD NOT FOUND" will appear on the screen, in which case,

- (3) Depress CLEAR Key

C. Update Existing Record (U)

There will be occasions when you may want to update an existing record as when there is a change in the gang assignment of a project engineer or when you want to correct the name of the supplier. This

can be accomplished with the following sequence of operations on the terminal keyboard:

(1) Key the Transaction Line as follows:

- + For Type Code B, enter MTNM/B/U/Sequence Number
- + For Type Code C, enter MTNM/C/U/Sequence Number
- + For Type Code D, enter MTNM/D/U/Gang Number or Sequence Number

(2) Depress ENTER Key

When the formatted map appears on the screen, key the following:

(3) A four digit Security Code

(4) Update the Name

(5) Depress ENTER Key

The update map will appear on the screen.

(6) Depress CLEAR Key

D. Delete Existing Record (D)

The procedure for deletion of existing record is similar to the procedure for updating existing record except that D should be substituted for U for the Action Code and step 4 should be skipped.

E. List or Browse (L)

This Action Code will let you browse through the existing Name list in the computer files.

(1) Key Transaction Line as follows:

- + For Type Code B, enter MTNM/B/L/SEQUENCE NO (optional)
- + For Type Code C, enter MTNM/C/L/SEQUENCE NO (optional)
- + For Type Code D, enter MTNM/D/L/SEQUENCE NO (optional)

(2) Depress the ENTER Key

The data map will appear on the screen beginning with the first sequence number. If the above transaction lines are entered with the entire sequence number, the map will begin at that sequence number and continue till the last name.

(3) Depress the ENTER Key to browse through each successive map.

(4) If a copy of any map is desired, depress the PA2 Key.

Error Messages

For various reasons an error message may appear on the screen. The field in which the error message occurred will be highlighted, and the cursor will be positioned at the location of the first error.

Outlined below are the error messages which may appear when you are working with the Name File maps. Listed below each error message is a list of possible causes for the error. The fields in which the error may occur are underlined.

(1) Invalid Type Code

If the type code is not a B, C, or D, this error message will appear on the screen.

(2) Invalid Action Code

If an N, I, D, U, or L is not entered in the action code field, this error message will appear on the screen.

(3) Seq-Number Not Entered

If the action code is either an I, U, or D, then a sequence number must be entered.

(4) That Sequence Code Is Full

Each entry is assigned a sequence number. If the sequence number field is filled to maximum capacity, this error message will appear on the screen.

(5) No Name Entered

If the action code is either an N or a U, then a name must be entered.

(6) Invalid Sequence Number Entered

If the action code is a D, then a four digit numeric sequence number must be entered.

(7) Invalid Two-Character Sequence Identifier Entered

If the type code is a C, then the first two characters of the sequence number must be entered.

(8) Sequence Is Already on File

If the type code is a D and action code is an N and the sequence number entered is already on the file, this message will appear.

2.1 PROJECT INFORMATION

The Project Information (PI) subsystem contains all the information pertinent to the project. This subsystem is a prerequisite for entry of other material test data. The entire MATT System depends on some of the basic data entered in the fields defined in this subsystem. If some of the basic data are not entered in the fields displayed on the terminal screen, then it will not be possible to enter any of the material test data. As an example, suppose you want to enter data on structural concrete cylinder strengths. The first thing you will be required to enter for these tests is the project number. The moment you enter this project number, the MATT System will go to the PI file to check the validity of the project, or, in other words, to see if a construction project bearing this number exists. If this information is missing, you will not be able to enter any strength data until after the PI file contains the necessary information on this project.

In the following paragraphs, the various fields that make up the PI subsystem are discussed in detail with respect to their formats and constraints. All required fields are indicated with an asterisk. The N in parenthesis signifies that the entry is numeric data only and that the terminal keyboard will automatically shift to numeric.

For each project you will have the project information form like the one shown as Exhibit PI-1. This form will be filled out from contract documents. The information on this form will then be used

as input to the PI map on the terminal. Exhibit PI-2 is an example of the map as will be projected on the terminal screen. The dark or black-colored fields in Exhibit PI-1 are required fields and must be recorded.

Project Number*

846-10-06

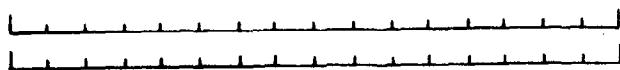
Although at the present time only nine spaces (maximum) are needed to identify a construction project, the sixteen spaces that are provided for this field are for possible future expansion which the Department is considering. Only numeric data is allowed. The project number that you insert in this field will be the governing project and all future sample identification will have to be identified by this number. This is important for contracts that have dual or triple project numbers.

FAP Number

BRS-624-2(001)

The FAP Number is the Federal Aid Project Number and can be alphanumeric.

Associated Projects



*Required Entry

Since many contracts have dual or even triple project numbers, the secondary numbers must be entered in the associated projects field. It is important to note that these associated numbers can not be used as lead project numbers on sample identifications.

Route Number

L A , 4 3 , 2 ,

District* (N)

6 2

The district number in which the project is located, 02, 03, 04, 05, 07, 08, 58, 61 or 62, must be entered in this field.

Parish* (N)

4 6

The parish field must contain a number from 1 to 64.

Project Engineer* (N)

0 6 2 2

Insert the gang number to which this project is assigned.

(N) - Numeric Key Shift

Contractor* (N)

0.1.7.7

Insert the contractor's number from the contractor's name list.

Highway Name (From-To)

AMITE RIVER BRIDGES & APPROACHES (FELIXVILLE)

This field is provided to identify the location of the construction.

Beginning Milepost (N)

002.01

Ending Milepost (N)

002.80

If information on the above two fields is not available, leave it blank and update it after the mile markers are posted.

Beginning Point

ON ROUTE LA 432 APPROX 1.4 M.I. EAST OF FELIXVILLE

Insert abbreviated description of the beginning point of location of construction. The description should be confined to 52 characters maximum.

Ending Point

A.T. MILE MARKER 3.0 IN ST
HELENA PARISH

This field should describe, in 52 characters, the ending point of construction.

System Code * (N)

4

One of the following system codes must be entered:

<u>Code</u>	<u>State System</u>	
1	Interstate	Code 1, 2, 3, or 4 should be used when work is performed on any roadway or structure in the state highway system. Color coded maps are available to show the official system designation for all highways. Revised maps will be distributed periodically to show changes in the system.
2	Primary	
3	Secondary	
4	Farm-to-Market	
5	Buildings and Grounds	Code 5 should be used when working on the buildings or grounds of the Department of Transportation and Development, Office of Highways.

<u>Code</u>	<u>State System</u>	
6	Overhead and Undistributed Expense	Code 6 should be used for over-head and undistributed work functions (i.e., leave, material handling, radio communications, administration, etc.)
		<u>Off System</u>
7	Parish Road	
8	City Street	
9	Parking Lot, Driveway, etc.	Code 7, 8, or 9 should be used when work is on a parish road, city street, parking lot, driveway, or any other facility that is not related to the state highway system or on the Department of Transportation and Development's buildings and grounds.

Location* (U or R)

R

In the location field, enter a U if the construction is in an urban area or an R if the construction is in a rural location. If the construction is both urban and rural, enter the predominant location.

Work Order Date* (N)

08-04-76

The work order date must be numeric and written as month-day-year.

Bid Cost* (N)

001282852.020

This field defines the total bid cost of the construction. Do not enter commas between numbers.

Acceptance Date (N)

11-08-77

Since information on this field will not be made available till after the completion of the project, it will have to be entered as an update. The format should be month-day-year.

Final Cost (N)

001280177.030

This field will have to be entered as an update also. No commas between digits are allowed.

Contract Days Allocated* (N)

10.275

OR 1275

Contract Days Used (N)

10,200

OR 200

This field will have to be entered upon completion of the project.

Construction Type * (N)

09 or 9

The construction type codes to be inserted are as follows:

<u>Code</u>	<u>Type of Construction</u>
0	New Construction - Portland Cement Concrete (PCC)
1	New Construction - Hot Mix Asphaltic Concrete (HMAC) with base
2	New Construction - Bridges
3	Reconstruction - HMAC with base
4	Reconstruction - HMAC widening and overlay
5	Reconstruction - HMAC overlay
6	Reconstruction - ACFC overlay
7	Reconstruction - PCC
8	Reconstruction - Asphaltic Surface Treatment
9	Reconstruction - Bridges
10	Rest Areas
11	Safety
12	Signing
13	Drainage related improvements
14	Landscaping
15	Buildings
16	Other

For this field, combinations of the code numbers may also be used.

For example, if the contract is for the reconstruction of a bridge with an HMAC overlay, you would use code number 95. If a new bridge is constructed with Portland Cement Concrete, code number 20 would be used.

Number of Lanes (N)

10.2

or 2

If the number of lanes varies over the length of the project, insert typical or predominant value.

One Lane Width, Feet (N)

11.0

Enter single lane width in this field. If the width varies over the length of the project, enter predominant or typical value.

Total Project Length, Miles (N)

0.000794

This field defines the total length of the construction project.

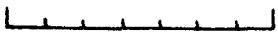
Average Daily Traffic (N)

000620

or 620

Record the average daily traffic in vehicles per day.

Median Type



If data is entered in this field, it must be one of the four types shown on the form. Otherwise leave the field blank.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PROJECT INFORMATION

Project No.* 846-10-06F. A. P. No.* BRS-624-2(001)Associated Projects* 1. _____
2. _____Route No.* LA 432District 62Parish 46Project Engineer Lee MabesContractor Spohrer Constr. Co.Project Engineer Code O622Contractor Code 0177Name of Highway (From-To)* AMITE RIVER BRIDGES & APPROX
OACHES (FELIXVILLE)Beginning Milepost 002.01 Ending Milepost 002.80Beginning Point* ON ROUTE LA 432, APPROX 1.4
MI EAST OF FELIXVILLEEnding Point* AT MILE MARKER 3.0 IN ST
HELENA PARISHSystem Code 4Location* R (U=Urban, R=Rural)Work Order Date 08-04-76Bid Cost 001,282,852.20Acceptance Date 11-08-77Final Cost 001,280,177.30Contract Days Allocated 127.5Contracted Days Used 200Construction Type Code 9Number of Lanes 2One Lane Width, ft. 11.0Total Project Length, mi. 000.794Average Daily Traffic 620Median Type* None (Barrier, Sod, Paved, Gravel)

EXHIBIT PI-1

MTPI/

***** PROJECT INFORMATION *****

PROJECT NUMBER : FAP NUMBER :

ASSOC. PROJECTS :

ROUTE NUMBER :

DISTRICT :

PROJECT ENGINEER :

HWY NAME(FROM-TO) :

BEGINNING MILEPOST:

BEGINNING POINT :

ENDING POINT :

ENDING MILEPOST:

SYSTEM CODE : LOCATION(U OR W) :

WORK UNDER DATE : BID COST :

ACCEPTANCE DATE : FINAL COST :

CONT. DAYS ALLOC. :

CONSTRUCTION TYPE :

NUMBER OF LANES : LANE WIDTH :

TOTAL LENGTH :

MEDIAN TYPE :

Avg Daily Traffic :

EXHIBIT PI-2

2.2 ROADWAY CROSS SECTION

The Roadway Cross Section subsystem is a continuation of the Project Information subsystem discussed before. The form that will be filled out is shown as Exhibit RC-1. Exhibit RC-2 is the corresponding map as will be seen on the terminal. Following is a discussion of each of the fields shown on the form:

Project Number*

See Section 2.1.

Misc. Info. (Miscellaneous Information)

THE PROJ. IS LOCATED IN PARISH, I
46 E. 19; 1-5.B.C E. 1-5.W.C.,

Use this field to enter any information that can not be discussed in other fields and yet is important enough to be noted. One use of this field would be to indicate any major changes that may have occurred in personnel relative to the contract. For example, if the contractor changes during the course of the project construction, this field can be used to note such a change.

Roadway Surface

H.M.A.C.

*Required Entry

This field defines the final roadway surface on which traffic will travel. Use one of the abbreviations listed on the form.

Thickness, Inches (N)

0.30.00

This field is for roadway surface thickness and is recorded in inches. If the thickness varies over the length of the project, enter typical or predominant value.

Joint Interval, Feet (N)

This field will only be filled out if the Roadway Surface entered above was PCCP.

If PCCP

Again, if the Roadway Surface entered was PCCP, enter the letters indicated on the form.

(N) - Numeric Key Shift

Load Transfer Device

Enter appropriate abbreviation for either of the load transfer devices used in the PCCP construction.

Construction Type

O

Enter the applicable letter for the type of construction.

Existing Surface

A.S.T.

This field will be entered if an O for overlay was entered in the preceding field. The abbreviations to be used are the same as for Roadway Surface.

Original Surface as Constructed

A.S.T.

This field will also be filled out if the construction is a second overlay. If so, then we would want to know the original surface before the first overlay was put down. Again, use the same abbreviations as for Roadway Surface.

Base

S.C.

Enter any one of the listed abbreviations for different types of base courses.

Thickness, Inches (N)

0.8-.50

If the thickness of the base course varies over the length of the project, enter typical or predominant value in inches.

Subbase



If a subbase is constructed, enter any one of the applicable abbreviations listed under Base including Lime.

Thickness, Inches (N)



The thickness in inches should be entered if the above field was entered.

Subgrade Soil Classification

A.2.6.

This field defines the AASHTO soil classification for subgrade.

Shoulder: Surface

OTHER

Enter any one of the abbreviations listed under Roadway Surface. If the shoulder is aggregate or sod, enter Other.

Shoulder: Width, Feet (N)

0.6.0.

If the width varies over the length of the project, enter typical or predominant value.

Shoulder: Base

OTHER

Enter any one of the abbreviations listed under Base.

Shoulder: Thickness, Inches (N)

0.4 • 0.0

The thickness should be the total thickness, in inches, of surface and base. If this thickness varies over the length of the project, enter typical or predominant value.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

ROADWAY CROSS-SECTION

Project No.* 846-10-06Misc. Info: THE PROJ. IS LOCATED IN PARIS
H. 46. E. 19; 1.5 BC E. 1.5 NCRoadway Surface* HMAC

(AST=Asphaltic Surface Treatment,
 CRCP=Continuous Reinforced Concrete Pavement,
 HMAC=Hot Mix Asphaltic Concrete,
 ACWFC=Asphaltic Concrete with Friction Course
 PCCP=Portland Cement Concrete Pavement,
 ACFC=Asphaltic Concrete Friction Course
 OTHER=Any Material Not Listed)

Thickness,in. 03.0 Joint Interval,ft. 1.0
(for ACWFC enter the Hot Mix Thickness only)If PCCP* U Load Transfer Device* U
(R=Reinforced, U=Unreinforced) (DB=Dowel Bar, SL=Starlug)Construction Type* O Existing Surface* AST
(N=New, O=Overlay) (Same as Roadway Surface above)Original Surface as Constructed* AST
(Same as Roadway Surface above)Base* SC Thickness,in. 08.5
(BLACK=Black Base,
 GRAN=Granular,
 SS= Sand Shell,
 STSS=Stab. Sand Shell,
 SCG= Sand Clay Gravel,
 STSCG=Stab. Sand Clay Gravel,
 SC= Soil Cement,
 OTHER=Any Material Not Listed)Subbase* LIME Thickness,in. 1.0
(Same as Base above plus LIME=Lime Treated)Subgrade Soil Classification* A26Shoulder: Surface* OTHER Width,ft. 06.0
(Same as Surface above) (Outside Shoulder)Base* OTHER Thickness,in. 04.00
(Same as Base above) (Surface + Base)

EXHIBIT RC-1

MERC/

9696 ROADWAY CROSS SECTION 9696

SECTION C: NUDGEY RD.

DESIGN: 1970

STRUCTURE: SLAB

SLAB THICKNESS:

IF FCCP:

CONSTRUCTION TYPE:

ORIGINAL SURFACE:

JOINT INTERVAL:

LOAD TRANSFER:

EXISTING SURF.:

BASE:

THICKNESS:

SUBBASE:

THICKNESS:

SUBGRADE SOIL:

SHOULDER: SURFACE:

THICKNESS:

BASE:

THICKNESS:

EXHIBIT RC-2

3.1 HEADER INFORMATION

The header fields are those fields, or items, that appear on the top portion of each test report form. These fields are the familiar Form 800 fields. A number of these fields are common to almost all of the test report forms. Therefore, rather than repeat these items each time, we will discuss them individually in this section and refer to them whenever individual forms, in which they appear, are discussed. Exhibit HI-1 is an example of the revised Form 800.

Filling out the various fields properly is of utmost importance. The information provides a direct link between the sample, the test, the purpose of the test and the specification item number for which the sampling and/or testing is performed. This last link determines whether the sampling and testing frequencies for that item are satisfied. This is necessary for final certification of construction projects.

Project Number*

8.4.6.-1.0..06.....

0.07.-0.5.-2.1.....

and not 7.-0.5.-2.1.....

Although at the present time only nine spaces (maximum) are needed to identify a construction project, the sixteen spaces that

* Required entry

3.1 HEADER INFORMATION

The header fields are those fields, or items, that appear on the top portion of each test report form. These fields are the familiar Form 800 fields. A number of these fields are common to almost all of the test report forms. Therefore, rather than repeat these items each time, we will discuss them individually in this section and refer to them whenever individual forms, in which they appear, are discussed. Exhibit HI-1 is an example of the revised Form 800.

Filling out the various fields properly is of utmost importance. The information provides a direct link between the sample, the test, the purpose of the test and the specification item number for which the sampling and/or testing is performed. This last link determines whether the sampling and testing frequencies for that item are satisfied. This is necessary for final certification of construction projects.

Project Number*

846-10-06

007-05-21

and not 17-05-21

Although at the present time only nine spaces (maximum) are needed to identify a construction project, the sixteen spaces that

* Required entry

are provided for this field are for future expansion which the Department is considering. The project number "GENERAL" is to be used by the central laboratory only. If the project has dual or triple numbers, enter only the lead project number. This lead project number must be the same as the one that was entered in the PI file. (See Section 2.1)

Material Code* (N)¹

102

All materials have been assigned numbered codes. For example, Grade A Coarse Aggregate (Gravel) for concrete is represented by the number 102. Class AA Concrete is assigned the number 101, Class A Concrete for minor structures the number 111, and so on. A list of codes for each category of materials appears in the respective material subsection.

If an erroneous code is entered, the computer will either reject the test if the code is not in the specification file, or it will check against the specifications representing the erroneous

¹ The data is considered numeric and the terminal key will automatically shift to numeric mode.

code number. For example, for structural concrete material codes, if you enter 111 (Class A Concrete for minor structures), when in reality you meant to enter 101 (Class AA Concrete), the computer will accept this as a valid number. However, the specification check will be made against 111 and not 101. This would result in an erroneous report.

Laboratory Number*

62-207696
OR 622515CA

Generally, these numbers are generated by the various districts and the central laboratory. The first two spaces represent the district or section number and the other six spaces after the dash are assigned numbers from 1 to 999999. A dash must be entered after the district number.

In cases where the laboratory number is not assigned, as in field testing, use the first three spaces for gang number and the last five spaces for sample identification. No dash is allowed if this format is used.

Date Sampled* (N)

02-14-77

This field represents the date the sample was taken in the field.
It should always be entered as month-day-year.

Submitted By* (N)

0622

This field is also entered as a four-digit numeric code. All project engineers are represented by their gang numbers. Check the submitters list for other codes.

Note: Since projects entered as "GENERAL" may not have a submitter, a dummy code 9999 can be entered.

Quantity (N)

5000

In this field, enter the quantity of material the sample represents.
If the quantity to be represented is "AMPLE," leave this field

blank. Decimal is not allowed. Also do not enter units of measurements like C.Y., GAL, LBS., etc., in any of the first six blocks. The three blocks after the six blocks are to be used for units of measurements for miscellaneous materials only (GAL., C.Y., etc.).

Purpose Code* (N)

1

Materials are sampled and/or tested for any one of the following purposes and should be coded accordingly.

Code

- 1 Project Control - material that is sampled for the purpose of making adjustments in field construction operations such as mixing, proportioning, temperature control, moisture contents, etc.
- 2 Verification - material that is sampled for the purpose of verifying that correct and accurate procedures and equipment are being used by field personnel and ascertaining whether materials used are of the same quality as the previously tested materials.
- 3 Acceptance - material that is sampled for the purpose of determining conformance to contract requirements or specifications.
- 4 Check - if the first material test failed, then another sample must be taken from the same area to determine conformance to contract requirements or specifications.
- 5 Resample - if an area was reworked after the first test was run, then the material must be resampled for the purpose of determining conformance to contract requirements or specifications.
- 6 Source Approval - formal approval of a specific source of material. This approval must be obtained at regular intervals.
- 7 Design - material that is sampled for the purpose of design. This would include samples for mix proportions, etc.
- 8 Record Test - test for the Federal Highway Administration for approval of projects receiving federal aid.

Code

- 9 Preliminary Source Test - preliminary test representing a specified quantity of material sampled at the source by the supplier or the Department. This is performed for quality control verification and/or to provide reference data for comparison with a subsequent verification or acceptance test. The preliminary source test does not constitute acceptance of materials.

Source Code*

A.1.3.5

This field represents the source of material, raw or manufactured. A source and supplier list contains a complete list of all sources and suppliers of various materials. If for any reason the source code can not be assigned to a material, enter the dummy code 9999. If a 9999 code is entered it is assumed to be supplied by the contractor. Refer to the Name Subsection (Section 1) for different formats for this field.

Specification Code* (N)

1

The specification code informs the computer which specifications the test should be checked against. The following codes are permitted.

- 1 - Check against standard specifications.
- 2 - Check against contract (special provisions) or supplementary specifications.
- 3 - Do not check against any specifications.
- 4 - Do not check against any specifications but pass the test.
- 5 - Do not check against any specifications but fail the test.

If you use a 4 or a 5, you are doing your own checking against any applicable specifications. Code 3 should only be used for verification testing (Purpose Code 2).

P.O. or CDO Number

Date Tested* (N)

02-17-77

The date of the sample test should be entered in this field as month-day-year.

Identification

S-1 SCA

This field is an important link between the submitted sample and its corresponding test reports. In view of this, samples must be numbered in such a way as to distinguish them from any other sample. This field can not exceed six digits and can be composed of letters and numbers. However, do not insert the character # to signify number.

Item Number*

301(1), 805(3), 810(1), 805(1)

Probably no field is more critical for data entry than this one. During construction, all materials are sampled and/or tested to satisfy the requirements defined in Standard Specification items. For example, concrete cylinders for acceptance may be tested for items 702, 707, 805, etc. During preparation of Form 2059, all materials and/or tests are compiled according to item numbers for which they were sampled and/or tested. This field will provide a key to preparation of Form 2059. When the material is tested for multiple item numbers, separate each item by a comma.

Remarks

RUN GRADATION ON STOCKPILE
MATERIAL

This field is provided so you may enter information relative to the sample. Sometimes clarification may be necessary or special instructions may be needed with respect to the sample or the test to be performed on that sample. This same field also appears again at the bottom of each material work - test report form. This second field should be considered more critical than the top one as it is geared towards providing a mechanism for explanation of failing samples during compilation of Form 2059. This field is explained in detail under material subsystems.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SAMPLE IDENTIFICATION

Received 2 - 15 - 77

Project No. *846-19-06

Material Grade A Gravel for Conc. 202
Code

Lab No. *62-207696

F.A.P. No. BRS-624-2 (001)

Date Sampled 02-14-77

Submitted By Leey Mabes 0622

Address Route La 16, Amite Code

Quantity 5000 Units (For Misc only)

Purpose Code 1

Material Source Frank Powers, *A135
Code

Address Grangeville, La

Sample Taken From Stockpile

Specification Code 1

P.O. No. *

Date Tested 02-17-77

Ident *S-1 SCA

District C2 Hammond

Use Structural Conc. Class A, AA, & R

Remarks * RUN GRADATION STOCKPILE
MATERIAL @ READY MIX PLANT

Remarks 2 For Central Lab only

Item No *3.0, 1,(1),,8.0, 5,(8),,8,1,0,(1,),,8.0, 5,(1),

(For multiple Item Nos, you must separate each Item No by a comma.
Do not leave any blanks within Item No or between Item Nos.)

PURPOSE CODES

1. Proj. Cont.
2. Verif
3. Acceptance
4. Check
5. Resample
6. Source Appr.
7. Design
8. Rec Test
9. Preliminary Source Test

SPECIFICATION CODES

1. Standard (1977)
2. Sp. Prov., Supplementary, etc
3. None
4. None but pass the test
5. None but fail the test

3.2 AGGREGATE

The aggregate test report form is shown as Exhibit AG-1. The form is a combination work-report form. The data will be filled out by either the field or the laboratory personnel. The information on this form will become input to the Aggregate Test Map on the display terminal. (Exhibit AG-2).

For instructions to fill out the header information, refer to Section 3.1. The following paragraphs discuss the formats for sieve analysis and physical tests on aggregate.

Sieve Tests (N)

100
0.95 OR 9.5
4 OR 0.4

All fields are to be entered as whole numbers (no decimals) with 100 as the maximum allowable. For values less than 100 either a left justified or right justified is permitted. However, the left justified format is recommended since leading zeros are not required.

Physical Tests (N)

All physical tests appear on the right half of the test form. The tests are self-explanatory except that for Plasticity Index enter zero for non-plastic material. Do not enter NP. Furthermore, since the decimals are pre-positioned, leading zeros will be required in some cases.

Remarks

S.E.F. LAB. NO. 62-207344, OF. 2-7-7
7, FOR CHECK RESULTS.

The field is specifically assigned to note explanations required in Form 2059 for failing samples. For example, if the sample had failed to meet the stated requirements, remarks as to how the sample was disposed of should be made in this field. Such explanation will expedite preparation of the certification document. Remarks such as "This sample conforms to specifications" should not be inserted in this field. The computer will generate such remarks. Occasionally, this field may have to be entered later on as an update. Regardless of when it is entered, any pertinent explanation should be in the record prior to compilation of 2059.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
AGGREGATE TEST REPORTProject No.* 8.4.6.-1.0-0.6.Date Sampled 10.1.-0.6-7.71Purpose Code 3P.O. No.* 1111111Remarks* T.O. B.E. U.S. E.D. A.S. BACKFILL UNDERTA P.P.R.O.A.C.H. SLABS.Item No.* 18113.111Tested By oleChecked By linMaterial Code 1119Submitted By 106221Source Code* 1A1.0.51Lab No.* 16.2-2069.3.1Quantity, cu. 11.50Spec Code 111Ident? G-1

- PURPOSE CODES
- 1 Proj. Cont
 - 2 Test
 - 3 Acceptance
 - 4 Check
 - 5 Resample
 - 6 Source Appr
 - 7 Design
 - 8 Rec Test
 - 9 Preliminary
 - Source Test

Sieve	Wt. Ret.	% Ret.	% Coarser	% Passing
2 1/2 inch				
2 inch				
1 1/2 inch				
1 1/4 inch				
1 inch				
3/4 inch				
5/8 inch				
1/2 inch				
3/8 inch				
No. 4				
Pass No.				
Total				
Wt. before sieving			% Diff	

Sieve	Wt. Ret.	% Ret.	% Coarser	% Passing
No. 8				
No. 10				
No. 16				
No. 20				
No. 30				
No. 40				
No. 50				
No. 80				
No. 100				
No. 200				
No. 270				
Pass No.				
Decant Loss				
Total				
Wt. before sieving			%Diff	
Dry wt. after washing				

ENTER APPROPRIATE DATA HERE

ABSORPTION, %
FINE AGG.
wt. of oven dry sample
in air,g
COARSE AGG.
wt. of oven dry sample
in air,g
wt. of SSD sample
in air,g
SPECIFIC GRAVITY, gm/cc
FINE AGG. (SSD)
wt of pyrometer
+ H₂O,g
wt of pyrometer + spl.
+ H₂O,g
COARSE AGG. (SSD) (APP)
wt of sample in air,g
wt of sample in H₂O,g

UNIT WEIGHT, lb/cu. ft., Dry
RODDED WT., lb
Net wt of agg
Factor
LOOSE WT., lb
Net wt of agg
Factor

Remarks* SEE LAB #6.2-2073.44 O.F. 2-17-77 FOR CHECK RESULTS

Absorption, %	<u>11.01</u>
Spec. Grav., gm/cc SSD	<u>1.51</u>
Wt./cu.ft. Dry	<u>111.01</u>
loose,lb	<u>111.01</u>
Wt./cu.ft. Dry rodded,lb	<u>111.01</u>
Colorimetric test	
1= pass 2= fail	<u>1</u>
Clay lumps, %	<u>1.01</u>
Deleterious Mat'l's, %	<u>1.01</u>
Decantation Loss, %	<u>3.01</u>
Liquid Limit	<u>111.01</u>
Plasticity Index, %	<u>111.01</u>
Foreign Matter	<u>111.01</u>
Sand Equivalent, %	<u>111.01</u>
Glassy Particles, %	<u>111.01</u>
Polish Value	<u>111.01</u>
Alkalinity	
1= pass 2= fail	<u>1</u>
Spec. Grav., gm/cc APP	<u>1.51</u>
Abrasions, % loss	<u>111.01</u>
Coating on Particles	<u>111.01</u>
Soundness, % loss	<u>111.01</u>
Asphalt Content, %	<u>111.01</u>
Percent Crushed	<u>111.01</u>
Soft Fragments	<u>111.01</u>

MTAG

*** AGGREGATE TESTS ***

ACTION CODE:

PROJECT NO. :		MATERIAL CODE:		LAB NO. :
DATE SAMPLED:		SUBMITTED BY:		QUANTITY:
PURPOSE CODE:		SOURCE:		SPEC. CODE:
PO OR CDO NO.:		DATE TESTED:		IDENT.:
REMARKS:				
ITEM NUMBER:				
2 1/2":	2":	1 1/2":	1 1/4":	1":
3/4":	5/8":	1/2":	3/8":	NO. 4:
NO. 8:	NO. 10:	NO. 16:	NO. 30:	NO. 40:
NO. 50:	NO. 80:	NO. 100:	NO. 200:	NO. 270:
ABSORPTION, %		SPECIFIC GRAVITY SSD		:
WEIGHT/CU. FT., DRY LOOSE:		WEIGHT/CU. FT., DRY RODDED:		:
COLORIMETRIC TEST		CLAY LUMPS, %		:
DELETERIOUS MATERIALS, %		DECANTATION LOSS, %		:
LIQUID LIMIT		PLASTICITY INDEX		:
FOREIGN MATTER, %		SAND EQUIVALENT, %		:
GLASSY PARTICLES, %		POLISH VALUE		:
ALKALINITY		SPECIFIC GRAVITY APP		:
ABRASION, % LOSS		COATING ON PARTICLES, %		:
SOUNDNESS, % LOSS		ASPHALT CONTENT, %		:
% CRUSHED		SOFT FRAGMENTS		:
REMARKS:				

EXHIBIT AG-2

3.3 ASPHALT CEMENT

The asphalt cement test report form is shown as Exhibit AC-1. Exhibit AC-2 is the map of this form as will be seen on the terminal. The combination work-report form (Exhibit AC-1) will be generated by the district and/or the central laboratory. Discussion of most of the header fields was covered in Section 3.1. Two fields, Unit of Pay and Spec Code, need clarification.

Unit of Pay* (N)

1

A 1 in this field will inform the computer that the asphaltic material is used in asphaltic concrete, while a 2 will denote that it is to be paid for as a separate item. This input is vital because of different pay schedules in the specifications. This field will provide appropriate remarks, with respect to this pay schedule, on each test report.

Spec Code* (N)

2

You must always enter a 2 whenever the Project Number is GENERAL. The literal "GENERAL" for Project Number is to be used by the central laboratory and only when the sample is a refinery sample.

Test Fields (N)

The various test fields can be filled out either right or left justified. If right justified, then leading zeros will be required. Ductility values in excess of 100 will be entered as 100. However, the printed report will show this value as 100+.

Remarks

See Section 3.2, Aggregate, for explanation of this field.

% Pay (N)

100

Enter a 100, 99 or a 90 if the asphalt cement is intended for use in asphaltic concrete mixtures. If, on the other hand, the asphalt cement is to be paid for as a separate item, insert appropriate reduction in pay (100, 80, or 50).

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
ASPHALT CEMENT TEST REPORT

Project No.* 846-10-06
 Material Code 140
 Date Sampled 08-08-77
 Quantity, gal 65.00
 Source Code* B602
 PO or CDO No.*
 Ident* S-3
 Remarks* RANDOM SAMPLE APPROVED LAB
 Item No.* 501(1)

PURPOSE CODES	
1.	Proj. Cont.
2.	Verif
3.	Acceptance
4.	Check
5.	Resample
6.	Source Appr.
7.	Design
8.	Rec Test
9.	Preliminary Source Test

TEST RESULTS

Pen. @ 25C	Penetration @ 25C	<u>52</u>
Determination 1		
Determination 2		
Determination 3		
Total	Viscosity @ 135C, SSF	<u>31.6</u>
Time S	Viscosity Kin. @ 135C, CS	<u>67.1</u>
Time S	Visc. ABS. @ 60C Poises	<u>41.48</u>
Wt of Flask + Sample, gm	Solubility In Trichlor	<u>99.99</u>
Wt of Flask, gm	Flash Point C.O.C., F	<u>68.0</u>
Wt of Sample, gm		
Wt of Cru + Mat After Filtration, gm		
Wt of Crucible + Material, gm		
Wt Insoluble, gm		
Wt Soluble, gm		
Time S	Res. Visc. @ 60C Poises	<u>59.77</u>
Specific Gravity @ 60F	Res. Ductility @ 25C	<u>100</u>
Wt of PYC + St	Spot Test (Std. Naptha Solvent)	<u>1</u> = Pass
Wt of PYC + Water, gm		<u>2</u> = Fail
Wt of PYC + St + Asphalt, gm		
Wt of PYC + St + Asphalt + Water, gm	Specific Gravity @ 60F	<u>1.0</u>
Remarks* <u>RANDOM SAMPLE LAB #62-21262</u>		
<u>0</u>		
% Pay <u>100</u>		
Tested by <u>abc</u>		
Checked by <u>mzb</u>		

EXHIBIT AC-1

MTAC

ACTION CODE:

* * * * * SPHALT CEMENT * * * * *

PROJ. NO.:
DATE SAMPLED :
PURPOSE CODE :
PO. OR C. D. O. NO.:
UNIT OF PAY:
REMARKS:
ITEM NO.:

* * * ASPHALT CEMENT TESTS * * *

PENETRATION @ 25C(77F) :
VISCOSITY KIN. @ 135C(275F), CS :
SOLUBILITY IN TRICHLOR., % :
RES. VISC. @ 60C(140F), POISES :
SPOT TEST(STD. NAFTHA SOLVENT)

REMARKS:
PERCENT PAY:

EXHIBIT AC-2

3.4 LIQUID ASPHALT

Exhibit LA-1 is a completed work - test report form. The upper portion of the form is to be filled out in a manner discussed in Section 3.1. This form is to be used for all bituminous materials other than asphalt cements. All cutbacks and emulsion test data will be recorded on this form. The map on the terminal screen will look like Exhibit LA-2.

Unit of Pay* (N)

1

Enter a 1 if the sample represents a refinery sample or a 2 if it represents a destination (transport) sample respectively. Refinery samples will usually have GENERAL in the Project No. field.

Test Field (N)

The test fields are self-explanatory and will not be discussed individually. Refer to the exhibit for entry format.

Remarks

Refer to Section 3.2 for explanation of this field.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

LIQUID ASPHALT TEST REPORT

Project No.* GENERAL
 Material Code 113
 Date Sampled 11-27-77
 Quantity, gal
 Source Code* B.G.O.3
 PO or CDO No.*
 Ident: R-1
 Remarks*

Lab. No.* 22-272174
 Submitted By 9999
 Purpose Code 9
 Spec. Code 1
 Date Tested 11-29-77

PURPOSE CODES
 1. Proj. Cont.
 2. Verif.
 3. Acceptance
 4. Check
 5. Resample
 6. Source Appr.
 7. Design
 8. Rec. Test
 9. Preliminary
 Source Test

Item No.* Unit of Pay 1 1=Delivery, 2=Destination

Flame Pt. Tag Open Cup 178
 Viscosity @ 250, SSF 125 Viscosity @ 500, SSF
 Viscosity @ 600, SSF Viscosity @ 600, SSF

Gravity, API @ F	Vol of Dist @ 190C	% Off @ 190C
Gravity, API @ 60F	Vol of Dist @ 225C	% Off @ 225C
Spec. Grav. @ 60F	Vol of Dist @ 260C	% Off @ 260C
Wt of 200 Mi, gm (S.C. @ 60F x 200)	Vol of Dist @ 316C	% Off @ 316C
Wt/Gal @ 60F, lb	Vol of Dist @ 360C	

Wt of Still + Equip., gm	Residue From Dist.% By Vol.
Wt of Sample, gm	Residue By Dist., % By Wt.
Wt of Still + Sample, gm	Oil Dist., % By Vol.
Wt of Still + Equip. + Res., gm	
Wt Loss, gm	Particle Charge <u> </u> (1=Pos, 2=Neg)
Wt of Distillate, ml	
Wt of Residue, gm	

Wt of Sieve + Pan + Res., gm	Sieve Test (Ret. on No. 20) <u> </u>
Wt of Sieve + Pan, gm	
Wt of Residue, gm	
Wt of Sieve + Pan + Res., gm	Cement Mixing, % <u> </u>
Wt of Sieve + Pan, gm	
Wt of Residue, gm	

Top of Sample Bottom of Sample

Wt of Beaker, gm	Settlement 5 Days <u> </u>
Wt of Sample, gm	1=Pass Mixing Property <u> </u>
Total Wt, gm	2=Fail Setting Property <u> </u>
Wt of Beak. + Res., gm	
Loss, gm	Penetration @ 25C <u>187</u>
Wt of Flask + Sample, gm	
Wt of Flask, gm	
Wt of Sample, gm	Res. Sol. In Trichlor, % <u>99.93</u>
Wt of Cru. + Mat. After Filtration, gm	
Wt of Crucible, gm	Res. Ductility @ 25C <u>100</u>
Wt Insoluble, gm	
Wt Soluble, gm	Res. Ductility @ 15.5C <u> </u>

Time S <u> </u> C <u> </u>	Res. Viscosity @ 135C <u> </u>
Percent Pay <u> </u>	Spec. Grav. @ 60F <u> </u>
Remarks* <u> </u>	

Tested By Ale Checked By Jm

MTLA

ACTION CODE:

LIQUID ASPHALT TESTS

PROJECT NO. :	MATERIAL CODE :	LAB NUMBER :
DATE SAMPLED :	SUBMITTED BY :	QUANTITY :
PURPOSE CODE :	SOURCE CODE :	SPEC CODE :
PO. OR C.D.O. NO. :	DATE TESTED :	IDENT CODE :
REMARKS :		
ITEM NO. :		UNIT OF PAY:
FLASH PT. OPEN TAG, F :	VISC. @ 50C(122F), SSF	:
VISC. @ 25C(77F), SSF :	VISC. @ 60C(140F), SSF	:
DIST. % OF TOTAL TO 360C(680F)	% OFF @ 190C(374F):	:
% OFF @ 225C(437F):	% OFF @ 260C(500F):	:
% OFF @ 315C(600F):	RESIDUE, % BY VOL.:	:
RES. BY DIST., % BY WT.:	OIL DIST., % BY VOL.:	:
PARTICLE CHARGE :	STIEVE TEST (RET. ON NO. 20):	:
CEMENT MIXING, % :	SETTLEMENT, 5 DAYS, %	:
MIXING PROPERTY :	SETTING PROPERTY	:
RES. PEN. @ 25C(77F) :	RES. SOL. IN TRICHLOR., %	:
RES. DUCT. @ 25C(77F) :	RES. DUCT. @ 15.5C(60F)	:
RES. VISC. @ 135C(275F):	SPECIFIC GRAVITY @ 60F	:
PERCENT PAY:		
REMARKS :		

EXHIBIT LA-2

3.5 CEMENT

This report is generated by the Central Laboratory only. Exhibit CT-1 is an example of the combination work-report form. For header information refer to Section 3.1. Data from Exhibit CT-1 will become input to the terminal map shown in Exhibit CT-2.

Physical Tests (N)

These tests are performed by the physical laboratory of the Materials Section. The individual test values should be entered in a manner shown in the exhibit. Where decimals are not shown enter the values left justified.

Chemical Tests (N)

This portion of the testing is performed by the chemical laboratory. The data format is shown by the position of the decimal. Follow the entry format shown in the example.

Remarks

Refer to Section 3.2 for definition of this field.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
CEMENT REPORT

Project No.*	<u>8.4.6.-1.0.-0.6</u>	PURPOSE CODES
Material Code	<u>11.6.3</u>	1. Proj. Cont.
Date Sampled	<u>07-22-77</u>	2. Verif
Quantity, lb	<u>3.576.94</u>	3. Acceptance
Source Code*	<u>0.7.1.5</u>	4. Check
Date Tested	<u>07-29-77</u>	5. Resample
Remarks*		
Lab. No.*	<u>2.2-266.196</u>	6. Source Appr.
Submitted By	<u>0.6.2.2</u>	7. Design
Purpose Code	<u>2</u>	8. Rec Test
Spec. Code	<u>1</u>	9. Preliminary
Ident.*	<u>S.-1</u>	Source Test
Item No.*	<u>8.0.5.(1), 8.0.5.(3)</u>	

PHYSICAL TESTS

Time Set hr:min Vicat Initial 0:45 Vicat Final 8:00
 Heat of Hydration 7 Days Heat of Hydration 28 Days
 (R1 - R2) x 10) Autoclave Expansion, % 0.0, 0.9
 (Water, ml /Cement, grm) x 100 Normal Consistency, % 24.0
 (Fineness, sq cm/gm √T(sec) x F) Turbidmeter
 (100 - w x 0.1105 for 240 ml) Air Permeability 3.65.6
 (100 - w x 0.1106 for 242 ml)
 (100 - w x 0.1108 for 244 ml) Air Content, % 09.7
 (Wt. of Cement, gm /Displaced Vol., cc) Specific Gravity, gm/cc
 (Final Pen. /Initial Pen.) x 100 False Set, %
 (RC = RS x (100 + C)) No. 325 Sieve Passing
 Compressive Strength, PSI
 24 hrs 72 hrs 7 Days 28 Days
 24 hrs 72 hrs 26.20 7 Days 36.30 28 Days

Tested By _____ Date _____ Checked By _____ Date _____

CHEMICAL TESTS

(W1 <u> </u> - W2 <u> </u>) ÷ (WS <u> </u>) X 100	Loss on Ignition, % <u>0.9</u>
(W(BASO4) <u> </u> / WS <u> </u>) X 34.3	Sulphur Trioxide, % <u>2.4</u>
(W(SIO2) <u> </u> / WS <u> </u>) X 100	Silicon Dioxide, % <u> </u>
(W(CAO) <u> </u> / WS <u> </u>) X 100	Fe & Al Oxide, % <u>0.7.1</u>
(PPM <u> </u> X 6.6316)	Calcium Oxide, % <u> </u>
(W <u> </u> : WS <u> </u>) X 100	Magnesium Oxide, % <u>0.3.4</u>
(Refer to AASHTO M25)	Total Oxides <u> </u>
(Refer to AASHTO M35)	Insoluble Residue, % <u>0.3.1</u>
(PPM <u> </u> X 0.57188)	Tricalcium Aluminate, % <u>0.8.9</u>
(PPM <u> </u> X 0.7558)	Tricalcium Silicate, % <u> </u>
	Ferric Oxide, % <u>0.2.4</u>
	Aluminum Oxide, % <u>0.4.9</u>
	Al Oxide/Fe Oxide <u>0.2.0</u>
	Alkalies, % <u> </u>

Remarks* _____

Tested By RBS Date 7/29/77 Checked By Daryl Date 7-29-77

EXHIBIT CT-1

MICT

CEMENT TESTS

ACTION CODE

PROJECT NO. :	MATERIAL CODE:	LAB NUMBER:
DATE SAMPLED:	SUBMITTED BY:	QUANTITY :
PURPOSE CODE:	SOURCE CODE :	SPEC. CODE:
DATE TESTED :		IDENT . . . :
REMARKS:		
ITEM NO.:		
TIME OF SET, VICAT INITIAL:	TIME OF SET, VICAT FINAL:	
GILMORE INITIAL	GILMORE FINAL	
HEAT OF HYDRATION, 7 DAYS:	HEAT OF HYDRATION 28 DAYS:	
AUTOCLAVE EXPANSION	NORMAL CONSISTENCY	
TURBIDIMETER	AIR PERMEABILITY	
AIR CONTENT	SPECIFIC GRAVITY	
FALSE SET	NO. 325 SIEVE P:	RE:
AVG. COMP. STRENGTH, 24-HRS:	72-HRS:	7-DAYS: 28-DAYS:
LOSS ON IGNITION, %		SULPHUR TRIOXIDE, %
SILICON DIOXIDE, %		IRON & ALUMINUM OXIDE
CALCIUM OXIDE		MAGNESIUM OXIDE
TOTAL OXIDES		INSOLUBLE RESIDUE, %
TRICALCILUM ALUMINATE		TRICALCILUM SILICATE
FERRIC OXIDE, %		ALUMINUM OXIDE, %
AL. OXIDE/FE OXIDE		ALKALIES
REMARKS:		

EXHIBIT CT-2

3.6 REINFORCING STEEL BAR

The combination work-report form that will be used to record test data on Reinforcing Steel is shown as Exhibit SB-1. This form will be used by the central and district 02 laboratories.

Exhibit SB-2 is a form that will be used to report test data on Spiral Reinforcing Steel or, specifically, Cold Drawn Steel Wire for Concrete Reinforcement. This form will be generated by the central laboratory only. Data from these two forms will be entered on the terminal map similar to the one shown as Exhibit SB-3.

The header fields on both the forms have been defined in detail in Section 3.1 and, therefore, will not be repeated here. Likewise, the test fields are self-explanatory, except for the following:

Steel Type

1

Enter one of the three codes shown on form SB-1. On form SB-2, a 3 is preprinted for you.

Nominal Size

8..... OR .08.....

If the steel type entered above was a 1 or a 2 (form SB-1), then this field must have one of the following sizes:

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, & 18

For steel type 3 (Exhibit SB-2) or 4, enter applicable alpha-numeric designations.

Maximum Difference, in.

.0..0.01

The first block in this field on form SB-2 is reserved for a minus (-) sign only. If plus, do not enter in this block. Other blocks after the decimal must be numeric.

Remarks

Refer to Section 3.2 for definition of this field.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PLAIN OR DEFORMED REINFORCING STEEL

Project No.* 846-10-06 Material Code F60
 Lab. No.* 22-251695 Date Sampled 12-03-76
 Submitted By 0622 Quantity 15,000
 Purpose Code 3 PURPOSE CODES
 1. Proj. Contr. 6. Source Assn.
 2. Verif 7. Design
 3. Acceptance 8. Rec Test
 4. Check 9. Preliminary
 5. Resample Source Test
 Spec. Code 1 Date Tested 12-12-76
 Ident.* S.11
 Remarks*
 Item No.* 19.06(1)

Steel Type (1=Def. 2=Pl. 4=Hot Rolled Spiral) 1
 Nominal Size* (Bar No) 8
 Nominal Area, sq.in 0.79
 Nominal Wt., lb/ft 02.670

Actual Wt., lb/ft (gr 1808 /in 18.40 x 0.0265) 02.604

Difference from Nominal Wt. 0.066

Percent Under Nominal Wt. (Diff./Nominal Wt.) x 100 2.47

Deformations: Height _____

Average Deformation Height, in. 0.055

Average Deformation Spacing, in. 0.690

Yield Load, lb. _____ X Act. Wt./Nom. Wt. = _____ (Reduced Spec. Only)

Yield Strength, PSI (Yield Load/Nominal Area) 63,600

Method:

Tensile Load, lb. _____ X Act. Wt./Nom. Wt. = _____ (Reduced Spec. Only)

Tensile Strength, PSI (Tensile Load/Nominal Area) 117,100

Elongation in 2", % 1.9

Elongation in 8", % 1.3.0

Position of Fracture:

Cold Bend Code 1 1=Pass, 2=Fail

Phosphorus, % 0.11

Remarks*

Tested By _____ Date _____ Checked By _____ Date _____
 Notified By _____ Date _____

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPIRAL REINFORCING STEEL

Project No.* 846-10-06 Material Code O.B.2
 Lab. No.* 22-250462 Date Sampled 11-05-76
 Submitted By O.G.22 Quantity, lb 300
 Purpose Code 3 PURPOSE CODES
 1.Praj. Cont. 6.Source Appr.
 2.Verif 7.Design
 3.Acceptance 8.Rec. test
 4.Check 9.Preliminary
 5.Resample Source Test
 Spec. Code 1
 Ident.* S-6 Date Tested 11-14-76
 Remarks* QUANT. REPRESENT. TURNS & NOT
POUNDS; 18 IN CONC. PILE BLD UP
 Item No.* B.0.4.(1),(D)

Steel Type 3
 Nominal Size* W-5
 Nominal Diameter, in. 0.252
 Nominal Area, sq. in. _____

Measured Diameter, in. X-Sect.-1 X-Sect.-2

Actual Diameter, in. (Avg. of 4 measurements) 0.253

Maximum Difference, in. (Actual - Nominal) 0.001

Max. Out of Roundness (Diff. btwn. measured Dia. for a X-Sect.) 0.001

Yield Load, lb.: .005 in./in. EUL
 Half of gage
 Yield Strength, PSI (Yield Load/Nominal Area) 80000

Tensile Load, lb. _____

Tensile Strength, PSI (Tensile Load/Nominal Area) 94000

Reduction of Area: Final Diameter, in. _____
 Final Area, in. _____
 Diff. (Final-Nom. Area) _____
 % Reduction of Area (Diff./Nominal Area X 100) 36

Bend Test 1 1=Pass, 2=Fail

Remarks* L

EXHIBIT SB-2

Tested By _____ Date _____
 Checked By _____ Date _____
 Notified By _____ Date _____

MTSE

STRUCTURAL STEEL BAR

PROJECT NO. : ACTION CODE:
 DATE SAMPLED: LAB NUMBER:
 PURPOSE CODE: QUANTITY:
 DATE TESTED: SPEC. CODE:
 REMARKS: IDENT.

ITEM NO. :	NOMINAL SIZE:
STEEL TYPE :	ACTUAL DIAMETER, IN.:
NOMINAL DIAMETER, IN. :	MAX. OUT OF ROUNDNESS :
DIFFERENCE FACT., % NOM. :	ACTUAL WEIGHT, LB./FT.:
NOMINAL WEIGHT, LB./FT. :	Avg. DEF. HEIGHT, IN.:
PERCENT UNDER WEIGHT :	YIELD STRENGTH, PSI:
Avg. DEF. SPACING, IN. :	ELONGATION IN 2", %:
TENSILE STRENGTH, PSI :	REDUCTION OF AREA, %:
ELONGATION IN 6", % :	POROSITIES, %:
COLD BEND, CODE :	REMARKS:

EXHIBIT SB-3

3.7 STEEL WIRE

There are two forms for two wire types. Exhibit SW-1 will be used for Stress Relieved Strand for Prestressed Concrete, and Exhibit SW-2 for Stress Relieved Wire for Prestressed Concrete (post tension wire). The header information is the same as in the previous section, Steel Bar. A detailed discussion of the various fields is contained in Section 3.1. The map projection on the terminal will look like Exhibit SW-3.

Wire Type (N)

1

This field will always have a 1 on form (exhibit) SW-1 and a 2 on form SW-2. It is preprinted for convenience.

Strand Size

1/2

In Exhibit SW-1 the permissible values are 1/4, 5/16, 3/8, 7/16, and 1/2.

Nominal Diameter, in. (N)

0.0500

For wire type 1 the permissible values are 0.250, 0.313, 0.375, 0.438, 0.500, and 0.600. For wire type 2 (Exhibit SW-2), the permissible values are 0.192, 0.196, 0.250, and 0.276.

Difference, in. (Actual - Nominal)

0.013

The first block in this field is reserved for a negative (-) sign only. If positive (+), do not enter in this block. Other blocks after the decimal must be numeric.

Difference, in. (Center - Largest Outer)

0.004

This field which appears in Exhibit SW-1 should be entered as discussed above.

Breaking Strength, lb.

390.00 □

If the material was not tested to fracture, enter a plus (+) in the disjointed sixth block shown in Exhibit SW-1.

% Elongation in 24"

% Elongation in 10"

04.0 +

The above two fields appear in Exhibit SW-1 and SW-2, respectively.

Insert a plus (+) sign in the last disjointed block if the material was not tested to its terminal failure value.

Remarks

This field should be filled in as discussed in Section 3.2.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
STRESS-RELIEVED STRAND FOR PRESTRESSED CONCRETEProject No.* 0.3.1,-0.4,-1.3 Material Code 250Lab. No.* 22-2728.00Date Sampled 11-16-77Submitted By 0221Quantity, lb 10,000.0Purpose Code 3

PURPOSE CODES

1. Proj. Cont. 6. Source Appr.
2. Verif. 7. Design
3. Acceptance 8. Rec Test
4. Check 9. Preliminary
5. Resample Source Test

Source Code* R.06.3Spec. Code 1Date Tested 11-18-77Ident.* S-49Remarks* C.O.I L #S 31, 33, 36, 48 @ PREST
LESS PLANTItem No.* 18.0.5.(8.)Wire Type 1 Strand Size* 1/12Number of Wires 7Pitch 7.0.7.5Nominal Diameter, in. 0.05Actual Diameter, in. 0.0487Difference, in. (Actual - Nominal) 0.0013Diameter of Center Wire, in. 0.0165Diameter of Outer Wires, in. Diameter of Largest Outer Wire, in. 0.0161Difference, in. (Center-Lrgst Outer) 0.004Yield Strength, lb. (1% EUL) 35000Breaking Strength, lb. 39000*

Elongation:

New Base Length, in. Initial Reading Final Reading Difference % Elongation in 24" (Diff/New Length X 100 + 1%) 07.4*

Position of Fracture:

Remarks* Tested By Date Checked By Date

EXHIBIT SW-1

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
STRESS-RELIEVED WIRE FOR PRESTRESSED CONCRETEProject No.* 031-04-13 Material Code 4,2,1Lab. No.* 22-27,28,09 Date Sampled 11-16-77Submitted By 0221 PURPOSE CODESPurpose Code 3 1. Proj. Cont. 6. Source Appr.

2. Verif. 7. Design

3. Acceptance 8. Rec Test

4. Check 9. Preliminary

5. Resample Source Test

Spec. Code 1Quantity, lb 20000Source Code* R,0,6,3Ident* S-53 Date Tested 11-18-77Remarks* SAMPLED FROM STOCKPILE @PRESTRESS PLANTItem No.* 805(8)Wire Type 2Nominal Diameter, in. .192

Nominal Area, sq. in. _____

Diameter Measurements

X-Sect.-1 X-Sect.-2

_____ _____

Actual Diameter, in (Avg. of 4 meas.) .192Difference, in. (Actual - Nominal) .0.0Maximum Out of Roundness, in. .0.001

Yield Load, lb. (1% EUL) _____

Yield Strength, PSI (Yield Load/Nom. Area) 210000

Tensile Load, lb _____

Tensile Strength, PSI (Tensile Load/Nom. Area) 252000% Elongation in 10", % 0.4.0 ±*

Position of Fracture:

Phosphorus, % 0.040Sulfur, % 0.050Remarks* L _____

Tested By _____ Date _____

Checked By _____ Date _____

EXHIBIT SW-2

TEST

ACTION CODE:

PROJECT NO. :	STRUCTURAL STEEL WIRE	ACTION CODE:
DATE SAMPLED:	MATERIAL CODE:	LAB NUMBER:
PURPOSE CODE:	SUBMITTED BY:	QUANTITY:
DATE TESTED :	SOURCE CODE :	SPEC. CODE:
REMARKS :	IDENT	
ITEM NO. :		
WIRE TYPE:	STRAND SIZE:	NUMBER OF WIRES:
FITCH	:	NOMINAL DIAMETER, IN.
ACTUAL DIAMETER, IN.	:	DIFFERENCE (ACT. - NOM.)
MAX. OUT OF ROUNDNESS	:	DIAMETER OF CENTER WIRE
DIA. LARGEST OUTER WIRE:	:	DIFFERENCE (CENTER - OUTER)
YIELD STRENGTH, LB.	:	YIELD STRENGTH, PSI
BREAKING STRENGTH, LB.	:	TENSILE STRENGTH, PSI
ELONGATION IN 10", %	:	ELONGATION IN 24", %
PHOSPHORUS, %	:	SULFUR, %
REMARKS:		

EXHIBIT SW-3

3.8 PORTLAND CEMENT CONCRETE JOB MIX RELEASE

The PCC Job Mix Release form is shown as Exhibit CJ-1. Only approved job mixes will be entered into the system through the map on the terminal (Exhibit CJ-2).

Project No.*

18,4,6,-10,-0,6,

Refer to Section 3.1.

Matt ID*

S

Enter a letter S for structural concrete and P for paving concrete.

Material Code*

1,0,1,

See Section 3.1.

Minimum Cement Factor* (N)

6.05

Maximum Water-Cement Ratio* (N)

5.0

Admixture: Air

Y

*Required Entry
(N) - Numeric Key Shift

If an air admixture or water reducing admixture is added to the concrete, enter a Y for Yes. If not added, enter an N for No, or leave it blank.

Central Mix Plant

N

Enter a Y or an N depending on whether the concrete mix is from a central plant or not from a central plant, respectively.

Intended for Slip Form Paving

Once again, enter a Y if the mix is a paving mix and is intended for slip form paving; otherwise leave it blank.

Source Code*

C107

See Section 3.1.

Coarse Aggregate: Type (N)

102

Enter the three-digit material code for coarse aggregate.

Coarse Aggregate: Producer

A.1.3.5.

The four-character producer code should be entered in this field.

Refer to the list of sources and the suppliers list.

Coarse Aggregate: Specific Gravity (N)

2.053

Coarse Aggregate: Absorption Factor (N)

2.02

Enter the absorption factor of the coarse aggregate.

Fine Aggregate: Type 10.1

Fine Aggregate: Producer A.1.3.5.

Fine Aggregate: Specific Gravity 2.062

Fine Aggregate: Absorption Factor 0.05

Enter the appropriate codes and/or values as discussed above
for coarse aggregate.

Cement: Brand

0716

Refer to the source and suppliers list for the source of cement.

Cement: Type (N)

156

This field is the material code for the type of cement. Refer to the material code listings for various types of cements.

Mixing Water: Source (N)

2

Enter the applicable codes listed on the form (Exhibit CJ-1).

Water Reducing Admixture: Manufacturer

0109

If a water reducing admixture is used in concrete, enter the four-character manufacturer code listed in the sources and suppliers list.

Normal Set

Y

Set Retarder

If a normal set or a set retarder water reducing admixture is used, enter a Y for Yes. If not used, either leave the field blank or enter an N for No.

Air Entraining Admixture: Manufacturer

0.117

If used, enter the code for the maufacterer of the air entraining admixture from the list of sources and suppliers.

Mix Proportions* (N)

The next six fields represent quantity of each component material to produce one cubic yard of concrete. Of the six, the first four are required fields. See example in the Exhibit.

Date* (N)

03-23-771

Enter the date the mix design was submitted for approval. Enter it as month-day-year in numeric format.

The three fields listed under "For Departmental Use" are to be filled in by the Department. They represent the computed values of Yield, Cement Factor, and Water-Cement Ratio. All are numeric and required entries.

Approved BY* (N)

0635

Date* (N)

03-28-77

The code for the person approving the job mix release, and the date if approved, should be entered in this field. Refer to the submitters list for appropriate codes.

Remarks

MNF RECOMMENDS MECH. AGITATION
ON MONTHLY ON AIR ENT AGENT

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PORTLAND CEMENT CONCRETE JOB MIX RELEASE

Proj. No. 846-10-06
 F. A. P. BRS - 624-2 (001)
 Name of Highway Amite River Bridge
 Parish St. Helena
 Source Sel. Ready Mix
 Project Engineer Levy Mapes

Matt ID*S Material Code 101
 Min. Cement Factor 6.5 sacks/cu. yd.
 Max. Water-Cement Ratio 5.0 gal./sack
 Admixture: Air* Y Water Reducing* Y
 Central Plant Mix* N Y=Yes
N=No
 Intended for Slip Form Paving* L
 Source Code* C107

MATERIALS

Coarse Aggregate: Type 102 Grade A Producer* A.1.3.5 Frank Powers
 Specific Gravity 2.63 Absorption Factor 2.2
 Pit Location Grengeville, La
 Fine Aggregate: Type 101 Conc. sand Producer* A.1.3.5 Frank Powers
 Specific Gravity 2.62 Absorption Factor 0.9
 Pit Location Grengeville, La
 Cement: Brand* 0716 Louisiana Mill Location N.O., La Type 156
 Mixing Water: Source of Supply 2 1=city, 2=Well, 3=Other
 Water Reducing Admixture: Brand Tricene Mfg'r* 0109 Const. Chem.
 Normal Set* Y Y=Yes
N=No Set Retarder* L
 Air Entraining Admixture: Brand Septair Mfg'r* 0117 Const. Chem.

Mix Proportions
For 1 cu. yd. of Concrete

Cement	<u>6.11</u>	lbs.
Fine Aggregate (SSD)	<u>9.73</u>	lbs.
Coarse Aggregate (SSD)	<u>19.35</u>	lbs.
Water	<u>3.203</u>	gal.
Water Reducing Admixture	<u>16.3</u>	oz.
Air Entraining Admixture	<u>2.7</u>	

Submitted for the Contractor by _____

Date 03-23-77

For Departmental Use

Yield 26.99 cu. ft.
 Cement Factor 6.5 sacks/cu. yd.
 Water Cement Ratio 5.0 gal./sack

Approved Disapproved By 0635

Title _____

Date 03-28-77Remarks* M.N.F. RECOMMENDS. MR. C.H. AGIATI
ON MONTHLY ON AIR ENTR. AGENT

MICD

AUGUST 2004

Portland Cement Concrete Job Mix Release
PROJECT NUMBER: MATERIAL ID: MATERIAL CODE :
MINIMUM CEMENT FACTOR: MAX. WATER/CEMENT :
ADITIVES: AIR: WATER REDUCING: CENTRAL PLANT MIX :
INTENDED FOR SLIP FORM PAVING: SOURCE CODE :

*** MATERIALS ***

COARSE AGGREGATE: TYPE: PRODUCER:
SPECIFIC GRAVITY: ABSORPTION FACTOR :
FINE AGGREGATE : TYPE: PRODUCER:
SPECIFIC GRAVITY: ABSORPTION FACTOR :
CEMENT BRAND: CEMENT TYPE :

MIXING WATER: SOURCE OF SUPPLY:

WATER REDUCING ADMIXTURE: MANUFACTURER:

NORMAL SET : SET RETARDER :

AIR ENTRAINING ADMIXTURE: MANUFACTURER:

*** MIX PROPORTIONS ***

CEMENT: FINE AGGREGATE : COARSE AGGREGATE :
WATER : WATER REDUCING ADMIX: AIR ENTRAINING ADMIX:
YIELD : CEMENT FACTOR : DATE SUBMITTED :
APPROVED BY : WATER-CEMENT RATIO :
DATE APPROVED :

REMARKS:

EXHIBIT CJ-2

3.9 MAJOR AND MINOR STRUCTURAL CONCRETE

The form that will be used for data recording is shown as Exhibit SC-1. Part of this form will be filled out by the project engineer's personnel in the field and the remaining part by the laboratory. The project engineer will generally complete the upper portion of the form, which is essentially the existing form 800, and send this completed form, with the cylinders appropriately identified. The laboratory will conduct the required tests on these cylinders and record the test results on the same form. This approach will minimize transfer of information by the laboratory from form 800 to their work card. The recorded data will then be keyed in on the structural concrete map like the one shown in Exhibit SC-2.

Project Number* 846-10-06

Material Code* (N) 101

See Section 3.1 for these header items.

Lot No.* (N)

028

and not 28

This is the lot number assigned to the batch (or batches) of concrete.

*Required Entry
(N) - Numeric Key Shift

Date Sampled* (N) 04-13-77

Submitted By* (N) 0622

See Section 3.1 for a detailed description of these fields.

Quantity* (N)

100.47.4

This field represents the quantity of concrete, in cubic yards, represented by the lot. It should be reported to the nearest tenth of a cubic yard.

Purpose Code* (N) 3

Source Code* C107

Spec. Code* (N) 1

Item No.* 805(2) //

See Section 3.1 for discussion on these fields.

Admixture: Air

WR-NS (Water Reducing - Normal Set)

WR-SR (Water Reducing - Set Retarder)

Y

If air entraining or water reducing admixtures are used, enter a Y for YES. If not, then enter an N for NO, or leave it blank.

Remarks

DECK SPAN 11.8 + 0.6 - 11.8 + 5.6
DIAPH 11.8 + 5.0

Date Tested (N)

05-11-77

Slump, Inches (N)

4.00

Air Content, % (N)

5.5

Sample No.

28A

This field represents the sample ID number generally assigned by the field personnel to each concrete cylinder.

Laboratory No.

62-209437

Refer to Section 3.1.

Condition Code (N)

1

Use any one of the condition codes shown on the test form (Exhibit SC-1).

Break Code (N)

1

Either a 1 or a 2 must be entered in this field to represent the type of break defined in Exhibit SC-1.

Age, Days (N)

28

Strength, psi (N)

4130

or 04130

If more than three samples are entered, the date tested, slump and air content is must be entered again for the second batch.

Conforms to* (N)

9.8 or 0.98

Enter the percent pay for the lot as defined by specification for lot average.

Remarks

Refer to Section 3.2 for definition of this field.

I.P.A.I.D. FOR AT 9.8% PAY UNDER
ITEM 8.05(2)(Y)

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
STRUCTURAL CONCRETE TESTS

Project No.* 846-10-06 Material Code 101 Lot No. 028
 Date Sampled 04-13-77 Submitted By 0622 Quantity 0047.4
 Purpose Code 3 Source Appr. C.107 Spec Code 1
 1. Proj. Cont. 6. Source Appr.
 2. Verif. 7. Design
 3. Acceptance 8. Rec Test
 4. Check 9. Preliminary
 5. Resample Source Test
 Remarks* DECK SPAN 118+06-118+56; WR-NS Y = Yes
DIAPH 118+50 WR-SR N = No
 Item No.* 903C

Cylinders Made By alcDate Tested 05-11-77 Slump, in. 4.00 Air Content, % 5.5

Sample No.*	Laboratory No.*	Cond	Break	Age, Days	Diam, in.	Max Load Strength, PSI
<u>28-1A</u>	<u>62-209432</u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>28</u>	<u>4130</u>
<u>28-1B</u>	<u>62-209433</u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>28</u>	<u>4290</u>
<u>28-1C</u>	<u>62-209434</u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>28</u>	<u>3980</u>
Average Strength						<u>4133</u>

Cond Code: 1=Good, 2=Improperly Made
3=Damaged, 4=FrozenDate Tested 05-11-77 Slump, in. 3.50 Air Content, % 4.5

Sample No.*	Laboratory No.*	Cond	Break	Age, Days	Diam, in.	Max Load Strength, PSI
<u>28-2A</u>	<u>62-209435</u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>28</u>	<u>4350</u>
<u>28-2B</u>	<u>62-209436</u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>28</u>	<u>4290</u>
<u>28-2C</u>	<u>62-209437</u>	<u>1</u>	<u>1</u>	<u>28</u>	<u>28</u>	<u>4060</u>
Average Strength						<u>4233</u>

Break Code:

1=Satisfactory

2=Unsatisfactory

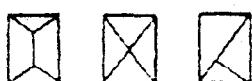
Average Strength for Lot 4183
Conforms to 98 % PayRemarks* PAID FOR @ 98% PAY UNDER
805(2)(Q)Tested By 2478 Checked by lunDistrict Lab Engineer Q

EXHIBIT SC-1

MTSC

*** STRUCTURAL CONCRETE TESTS ***

ACTION CODE:

PROJECT NUMBER:
DATE SAMPLED:
PURPOSE CODE:

REMARKS:

ITEM NO:

DATE TESTED:
SAMPLE :
LAB NO. :

COND :

BREAK :

SLUMP :

AIR CONTENT :

STRENGTH :

LOT NUMBER:
SUBMITTED BY:
SOURCE CODE :

QUANTITY:
SPEC. CODE:
ADMIXTURE: AIR:
WR-NS:
WR-SR:

AGE:
STRENGTH:

PERCENT PAY:
REMARKS:

DATE TESTED:
SAMPLE :
LAB NO. :

COND :

BREAK :

SLUMP :

AIR CONTENT :

STRENGTH :

EXHIBIT SC-2

3.10 PAVING CONCRETE

This subsystem will let you enter acceptance data generated on paving concrete. This would include measurements on compressive strength and thickness of hardened concrete. The form for recording such data is shown as Exhibit PC-1. The data will be recorded and entered by the Central Laboratory. The map on the terminal will look like Exhibit PC-2. In Exhibit PC-1, fields in black color are required fields. Definition of each field shown on the form is given below:

Project No.* 208-01-10.....

Material Code* (N) 10.1

Refer to Section 3.1 for definition of these fields.

Lot No.* (N)

002, and not 2.....

Each form will have a unique lot number. The lot numbers are assigned to segments of pavements as defined in Section 601.21 of the Standard or other applicable specifications.

*Required Entry
(N) - Numeric Key Shift

Spec. Code* (N)

1

Submitted By* (N)

10329

Refer to Section 3.1 for discussion of these fields.

Plan Thickness, Inches* (N)

0.8 .00

Enter the plan thickness of the pavement. Any thickness between zero and 99.99 inches is allowed. If the thickness varies over the length of the project, enter predominant value. Do not enter the word VARY in the blocks.

Section Length, Feet (N)

149.0

Enter the length of the section from which pavement cores are drilled. If data is not available, leave it blank.

Section Width, Feet

17.0

The maximum number allowed is 99.9 feet. If the width varies over the segment length (lot), write the word VARY.

Approximate Area, Square Yard (N)

2.0001

Enter the area of the segment in square yards. This can be computed from the previous two fields.

From Station*

To Station*

00.40+12

00.55+22

Enter the segment boundaries in terms of stations. The numerical difference between the station boundaries should, in most cases, approximate the section length.

Purpose Code* (N)

3

Refer to Section 3.1 for various codes and their definitions.

Remarks

N.O. S.P.E.C.I.F.I.C. C O M M E N T S. O N. T.H.I
S. L. O. T.

Any comments for clarification should be handled through this field.

Item No.*

16.01(.1.)

Enter the pay item number for which the sampling and testing is performed.

Air*

Y

Enter a Y if an air entraining admixture was added to the concrete. If no air was added, enter an N or leave it blank.

Core Ident.

S-C-11

Enter the core identification number for each core.

Station

0.042+0.0

This is the station number where the core was drilled.

Position

This field will define the location of the core. Use the following abbreviations for location.

R.R.

RRRL = Right Roadway Right Lane

RRLL = Right Roadway Left Lane

LRRL = Left Roadway Right Lane

LRLL = Left Roadway Left Lane

RR = Right Roadway

LR = Left Roadway

RPXX = RamP with XX representing numbers or letter designations or combination of both

PLXX = Parking Lot with XX representing same designations as above

Date Poured (N), Date Cored (N), Date Tested (N)

07-26-77

11-01-77

11-04-77

Enter the appropriate dates in the month-day-year numeric format.

Thickness, Inches (N)

08.52

The measured average thickness should be entered as any number between 0 and 99.99.

Strength, PSI (N)

5510 OR 05510

Enter the corrected strength of each cylinder between 0 and 99,999 PSI.

Remarks

PAYMENT WAS MADE UNDER 601(1) SURFACE SMOOTHNESS PASSED.

This field is reserved for comments that may have a direct bearing on the final disposition of the lot. Refer to Section 3.2 for further discussion of this field.

% Pay

100

Enter the percent pay for the lot based on thickness and strength measurements, and as defined in standard or other applicable specifications.

MTPC/PROJ NO/MAT CODE/LOT NO/ACTION CODE

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DRILLED PAVING CONCRETE CORES

Project No.* 208-01-10
 Material Code 101 Lot No. 002
 Spec. Code 1 Submitted By 0329
 Plan Thickness 08.00 Section Length 1490
 Section Width* 12.0 Approximate Area 2000
 From Station* 0040+12 To Station* 0055+22
 Purpose Code 2
 Remarks* NO SPECIFIC COMMENTS ON TH
 This Lot 1 Air Y Y=Yes
 Item No* 601(1) X=No

Core Ident*	Station*	Position*	Date Poured
1. <u>6-C</u>	<u>42+00</u>	<u>R.R.</u>	<u>07-26-77</u>
2. <u>7-C</u>	<u>45+00</u>	<u>R.R.</u>	<u>07-26-77</u>
3. <u>8-C</u>	<u>48+00</u>	<u>R.R.</u>	<u>07-26-77</u>
4. <u>9-C</u>	<u>51+00</u>	<u>R.R.</u>	<u>07-26-77</u>
5. <u>10-C</u>	<u>54+00</u>	<u>R.R.</u>	<u>07-20-77</u>

	Date Cored	Date Tested	Thickness	Strength
1.	<u>11-01-77</u>	<u>11-04-77</u>	<u>08.52</u>	<u>5510</u>
2.	<u>11-01-77</u>	<u>11-04-77</u>	<u>07.70</u>	<u>5960</u>
3.	<u>11-01-77</u>	<u>11-04-77</u>	<u>08.62</u>	<u>5180</u>
4.	<u>11-01-77</u>	<u>11-04-77</u>	<u>07.75</u>	<u>5430</u>
5.	<u>11-01-77</u>	<u>11-04-77</u>	<u>08.12</u>	<u>6690</u>

	Thickness, Inches									Avg.
	1	2	3	4	5	6	7	8	9	
1.										<u>8.52</u>
2.										<u>7.70</u>
3.										<u>8.62</u>
4.										<u>7.75</u>
5.										<u>8.12</u>

Total Load	Load, PSI	Capped Length	Correction Factor
1.			
2.			
3.			
4.			
5.			

Fill in Strength data
Lot Avg. _____, in. Lot Avg. _____, PSI Corrected Lot Avg. _____, PSI

Remarks* _____

Percent Pay _____

MTPC

ACTION CODE:

* DRILLED PAVING CONCRETE CORES *

PROJECT NO. :	MATERIAL :	LOT NO. :	
SPEC CODE :	SUBMITTER :	PLAN THICK. :	
SEC. LENGTH :	SEC. WIDTH :	APPROX. AREA:	
FROM STATION:	TO STATION:	PURPOSE CO. :	
REMARKS :			
ITEM NO. :		AIR ENT. ADD:	
CORE IDENT.	STATION	POSITION	DATE POURED
1 :	:	:	:
2 :	:	:	:
3 :	:	:	:
4 :	:	:	:
5 :	:	:	:
DATE CORED	DATE TESTED	THICKNESS	STRENGTH
1 :	:	:	:
2 :	:	:	:
3 :	:	:	:
4 :	:	:	:
5 :	:	:	:
	Avg. Thickness:		Avg. Stree:

REMARKS:
PERCENT PAY:

EXHIBIT PC-2

3.11 ASPHALTIC CONCRETE JOB MIX RELEASE

This form, which in most cases is filled out by the contractor, is shown as Exhibit HJ-1. Because of the large number of fields appearing on this form, the corresponding projection on the terminal screen has to be broken down into two separate maps. Exhibits HJ-2 and HJ-3 are the two maps. Following is a discussion on the various fields appearing on the form. Once again, the fields shown in black color are required fields.

Project No.

See Section 3.1 for entry format.

Sequence No.* (N)

01
and not 1

If this is the first job mix form submitted by the contractor for the type of mix, place a 1 in this block. All subsequent job mixes should be assigned sequential numbers from here on.

Plant Type* (N)

2

*Required Entry
(N) - Numeric Key Shift

Enter any one of the codes shown on the form for the type of production process used in hot mix production.

Type (N), Source, Percent (N)

For each of the materials listed on the left, enter the type, source, and percent (whichever is applicable) of that material.

For HMAC, the code for the type of mix produced should be entered. Thus, if a type 1 wearing course mix is used for type 1 binder course, enter the code 01 (and not 02). Refer to the list of codes below. If the source codes for coarse and fine sands are not readily available, write the source name in the adjacent lines.

Note that material type codes are not required for sands, silicon, anti-strip, and other. Although the percentage of material will not be entered in the system, except asphalt cement, it should be indicated on the space provided. Other codes may be found in the material type and sources and suppliers list.

01 = 1WC, 02 = 1BC, 03 = 2WC, 04 = 2BC
05 = 3WC, 06 = 3BC, 07 = 4WC, 08 = 4BC
09 = 5A. 10 = 5B, 11 = Lt Wt FC, 12 = Slag FC
13 = Limestone FC, 14 = Gravel FC

Contractor's and Department's Average Results* (N)

The series of blocked fields under the above titled columns are the average test results on Marshall test properties. The items are required and should be filled out as shown on the form (Exhibit HJ-1).

Recommended Formula and Loose Mix Results (Average) (N)

Fill in the blocks under the titled columns with test values submitted by the contractor and those determined by the Department. Refer to the Exhibit for guidance in filling out these fields.

Submitted for Contractor by* (N)

0.064

Date* (N)

08-08-77

If the mix design is submitted by the contractor, enter the contractor code. If the mix is designed and submitted by a private testing lab, enter its code as listed in the contractors list.

The date is the date the mix design was submitted for verification and/or approval. It should be numeric and in the month-day-year format.

Approved for the Laboratory by* (N)

0615

Date* (N)

08-10-77

Enter the district laboratory engineer's code and the date of approval.

Remarks

THE MIX WAS APPROVED BY DIS
T 61 LAB ENG

Any specific comments pertinent to the mix design may be entered in this 54-character field.

Use

THE MIX IS FOR RDWY 1WC WILL
BE USED AS 1BC

Enter where the mix is going to be used (roadway, shoulder, patching, etc.). If the mix is for a miscellaneous purpose, identify the specific miscellaneous use (curb, parking lot, etc.).

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
ASPHALTIC CONCRETE JOB MIX RELEASEProject No.* 846-10-06Sequence No. 10.1Plant Type 1 1=Batch Screenless 2=Batch Hot Bin
3=Drier Drum 4=ContinuousParish St. HelenaF. A. P. No. BRS-624-2 (001)Contractor Dunham for AtlasName of Hwy. Amite Rvr Bridge ApproachesProj. Engineer Levy Mapes

	TYPE	SOURCE*	PERCENT	SPEC. GRAV.
HMAC	<u>0.1</u>	<u>IWC for IBC</u>	<u>H.G.C.4</u>	<u>Dunham</u>
Asphalt	<u>14.0</u>	<u>AC-40</u>	<u>B.G.O.2</u>	<u>Exxon</u>
Coarse Agg.	<u>—</u>	<u>—</u>	<u>A.G.I.0</u>	<u>Thomas Sand</u>
Coarse Sand	<u>—</u>	<u>—</u>	<u>A.G.I.0</u>	<u>S. Gravel</u>
Fine Sand	<u>—</u>	<u>—</u>	<u>A.G.I.0</u>	<u>—</u>
Mineral Filler	<u>1.4.6</u>	<u>Silica Dust</u>	<u>1.0.1.2</u>	<u>Winn Park</u>
Silicone	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Anti-Strip	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Other	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

CONTRACTOR'S RESULTS

Marshall Test Properties

	Average
Spec. Grav.	<u>2.434</u>
Th. Gr.	<u>2.44</u>
% Th. Gr.	<u>95.9</u>
% Voids	<u>0.4.1</u>
% V. F. A.	<u>7.4.0</u>
Stability Lbs.	<u>1700</u>
Flow, 1/100 in.	<u>1.0</u>

DEPARTMENT VERIFICATION

Marshall Test Properties

	1	2	3	4	Average
	<u>2.35</u>	<u>2.34</u>	<u>2.33</u>	<u>2.34</u>	<u>2.34</u>
	<u>2.44</u>	<u>2.44</u>	<u>2.44</u>	<u>2.44</u>	<u>2.44</u>
	<u>96.3</u>	<u>95.9</u>	<u>95.5</u>	<u>95.9</u>	<u>95.9</u>
	<u>3.7</u>	<u>4.1</u>	<u>4.5</u>	<u>4.1</u>	<u>4.1</u>
	<u>75.0</u>	<u>74.0</u>	<u>72.0</u>	<u>74.0</u>	<u>74.0</u>
	<u>1522</u>	<u>1574</u>	<u>1460</u>	<u>1535</u>	<u>1523</u>
	<u>10</u>	<u>12</u>	<u>11</u>	<u>12</u>	<u>11</u>

Design Criteria
For Approval of
Job Mix Formula95-97
3-5
70-80
1650 min
15 max

RECOMMENDED FORMULA

U.S. Sieve	1 1/4 inch	1 inch	3/4 inch	1/2 inch	3/8 inch	No. 4	No. 10	No. 40	No. 80	No. 200	Asphalt Cement	% Crushed	Mix Temp
	<u>—</u>	<u>—</u>	<u>1.0.0</u>	<u>9.1</u>	<u>—</u>	<u>5.2</u>	<u>4.0</u>	<u>2.5</u>	<u>1.2</u>	<u>7</u>	<u>0.5.0</u>	<u>8.0</u>	<u>3.2.5</u>

LOOSE MIX RESULTS

	1	2	Average
	<u>100</u>	<u>95</u>	<u>98</u>
	<u>92</u>	<u>83</u>	<u>88</u>
	<u>—</u>	<u>—</u>	<u>—</u>
	<u>57</u>	<u>53</u>	<u>55</u>
	<u>42</u>	<u>43</u>	<u>42</u>
	<u>24</u>	<u>29</u>	<u>26</u>
	<u>11</u>	<u>14</u>	<u>12</u>
	<u>7</u>	<u>8</u>	<u>8</u>
	<u>4.9</u>	<u>4.8</u>	<u>4.8</u>
	<u>80</u>	<u>84</u>	<u>82</u>
	<u>3.2.5</u>	<u>3.2.5</u>	<u>3.2.5</u>

Control Limits

1 Test	2 Tests
<u>100</u>	<u>100</u>
<u>91-100</u>	<u>94-100</u>
<u>79-100</u>	<u>82-100</u>
<u>—</u>	<u>—</u>
<u>42-62</u>	<u>45-59</u>
<u>31-49</u>	<u>34-46</u>
<u>18-32</u>	<u>20-30</u>
<u>7-17</u>	<u>8-16</u>
<u>4-10</u>	<u>5-9</u>
<u>4.4-5.6</u>	<u>4.6-5.4</u>
<u>80</u>	<u>80</u>
<u>300-350</u>	<u>—</u>

Submitted for the contractor by 10.0.6.4Date 10.8.-08.-77Approved for the laboratory by 06.1.5Date 10.8.-10.-77Remarks* T H E M I X W A S A P P R O V E D B Y D I S
T G I L L A B E N G .Use* T H E M I X I S F O R R D W C I W C W I L L
L B E U S C D A S I B C .

MTHJ

GROUTING CURE : HOT MIX ASPHALTIC CONCRETE JAR MIX RELEASE

SCREEN NO 4

PROJ. NO.

TYPE SOURCE PERCENT

HMAC

ASPHALT

COARSE AGGREGATE

COARSE SAND

FINE SAND

MINERAL FILLER

SILICONE

ANTI-STRIP

OTHER

	CONTRACTOR'S RESULTS MARSHALL TEST PROPERTIES	DEPI. WEAKENING TESTS	PERCENT
SPECIFIC GRAVITY			
THEORETICAL GRAVITY			
% THEORETICAL GRAVITY			
% Voids			
% V ^a F ^b A ^c			
MARSHALL STABILITY LBS.			
FLOW, 4/100 INCH			

EXHIBIT HJ-2

MTHJ

HOT MIX ASPHALTIC CONCRETE JOB MIX RELEASE

SCREEN NO 2

PROJ. NO. : RECOMMENDED FORMULA
SEQUENCE NO. : LOOSE MIX AMT

INCH INCH

1 1/4 INCH :
1 INCH :
3/4 INCH :
1/2 INCH :
3/8 INCH :

NO. 4 :
NO. 10 :
NO. 40 :
NO. 80 :
NO. 200 :

ASPHALT CEMENT :
PERCENT CRUSHED :
MIX TEMPERATURE :
DRY MIXING TIME-SEC :
WET MIXING TIME-SEC :

SUBMITTED FOR :
APPROVED BY :
REMARKS :
USE :

DATE SUBMITTED :
DATE APPROVED :

EXHIBIT HJ-3

3.12 ASPHALTIC CONCRETE PLANT AND ROADWAY INSPECTION REPORT

Exhibit HM-1 is an example of the report form that will be used to report hot mix data generated in the field for each lot. The form is a replacement of Form 2025. The data on this form will be recorded from the Daily Asphalt Plant Inspection Report, Form 2026. The fields shown on this form are the familiar Form 2025 fields, except that their locations have been shifted to conform to their positions on the terminal map which is shown as Exhibit HM-2. The definition and data entry format of each field follows:

Project No.*

1846-10-06

See Section 3.1 for entry format.

Lot No.*

001

and not 1

The lot numbers are assigned by the project engineer's personnel. To standardize the number assigning procedure, the following guidelines should be used:

- + Use only the first three blocks for numbers.
- + The fourth block is reserved for letter designations (A, B, C, etc.). The letter designation may be used when the mix on a job is delivered from two separate plants. In this case the lot number will be the same with a suffix A for one plant and a letter B for the mix from the other plant.
- + Start with a 001 whenever the Mix Use and/or Mix Type changes.

*Required Entry

Mix Use* (N)

1

Enter any one of the designated code numbers corresponding to the mix usage. This information is necessary for checking against corresponding specifications.

Mix Type* (N)

01 As 02 or 02 As 02

Since substitutions of some mix types are allowed, with or without the approval of the engineer, the two fields will help identify such an occurrence. The above example indicates that the wearing course mix was used as binder course mix. This substitution occurs more frequently than others. If the mixture is used as defined in the contract document, then the first field and the second field will have the same numeric code, as is indicated above on the right. This coding shows that binder course mix was used as binder course. Codes 11 through 14 are assigned to different types of aggregate friction courses.

Date Laid* (N)

08-08-77

(N) - Numeric Key Shift

Enter the date the mix was laid on the road or the date on which the lot was sampled and tested. The date format should be month-day-year and all numeric.

Adjst Period (Adjustment Period)* (N)

2

The specifications allow the contractor two days for adjustment of his process before any reduction in pay applies for deficiency in quality criteria. This field will identify if the adjustment period applies or not. Generally, for a given mix, the first two lots will have a 1 recorded in this field. After the first two days (or two lots), the field should show a 2. Refer to specifications for a definition of adjustment period and when and how it is applied.

Duration, hours* (N)

0.8.06

In this field enter the number of hours the plant was in operation and supplying the mix on the project. Do not include time during which the plant was in operation but mix was not being laid on that project because of equipment breakdowns or any such reasons. This is a common occurrence for plants supplying mixes on a number of projects. If the construction was halted after only two hours of

operation, for example, enter a 2, since no mix went on that project after the breakdown. The hours entered in this field can be directly correlated with the number of Marshall stabilities and/or gradations tested for the lot.

Source Code*

H.6.04

Enter the plant code delivering the hot mix. All plants delivering hot mix have been assigned codes with prefix H.

JMF Seq. No. (Job Mix Formula Sequence No.)* (N)

1

OR 01

Enter the job mix formula sequence number applicable to this lot. Each job mix release form is assigned a number. Thus, if the second job mix release issued on the project is applicable to this lot, enter a 2.

<u>From Station</u>	<u>To Station</u>	<u>Location</u>
<u>107+25</u>	<u>148+00</u>	<u>LL</u>
<u>106+00</u>	<u>148+00</u>	<u>RL</u>

These three fields will identify the length and location of the paving operation for the day. Use abbreviations in the location field as follows:

RL = Right Lane
LL = Left Lane
RRRL = Right Roadway Right Lane
RRLL = Right Roadway Left Lane
LRLR = Left Roadway Right Lane
LRLL = Left Roadway Left Lane

For ramps use RMP and letter or number designation. For turnouts and intersections use acceptable abbreviations within the confines of four blocks.

If the paving operation was at different locations, enter the appropriate station numbers, etc., on the second line, as shown in the example.

Purpose Code* (N)

3

Samples tested at the plant for stability, etc., will generally have a code 3. However, samples submitted to the district laboratory for verification should have a 2 in this block. The lot number, however, should be the same. If the samples are tested for an FHWA Record Test, indicate an 8 in this field with the lot number being the same as the field-assigned number. Refer to Section 3.1 for a detailed definition of each purpose.

Spec Code* (N)

Refer to Section 3.1 for definition of codes.

N Grad (No. of Gradations)* (N)

2

This field defines the number of extraction tests for the lot.

TEST DATA FIELDS (N)

Marshall Tests

Specific Gravity, Stability Corrected, % VFA

2.035

1.522

75

Enter the values of these properties in their respective blocks. A maximum of four briquette values and a minimum of one will be entered in this field.

Roadway Tests (N)

Thickness, % Briq Grav

2.00

098.07

Record the thickness and percent of briquette gravity (percent compaction) data in the columns indicated on the form. The thickness is to be recorded in hundredths (1.63) and not fractions (1 5/8).

% Pay (N)

1.00

Enter percent pay according to stated requirements for stability and density.

Extracted Gradation (N)

Average

Enter the average of one or two extraction results in the blocks shown under "Average."

Avg Dev (N)

Entries in the blocks in this column will be required for No. 4, 40, and 80 sieves only, and only when the average extraction results discussed above are outside the specified control limits. For computation of this field, refer to Section 501.22 (d) or other applicable specifications.

% Pay (N)

1.00

Enter the percent pay based on the specifications requirement for average deviation for gradation discussed above.

Surface Tolerance (N)

Tolerance

3

Enter a 1, 2, or 3 for 1/8", 3/16" or greater than 3/16" tolerance setting, respectively. Do not enter the fraction 1/8 or 3/16 in the block.

Linear Ft (N)

3,1,2,8,

This is the linear feet of roadway (represented by the lot) tested for surface tolerance. Decimal is not allowed.

Ft Outside Tolerance (N)

4

The number of linear feet (in 3128 feet) outside the set tolerance should be entered in this field.

% Outside (N)

10.0,13

This field represents the linear feet of roadway outside the tolerance (4 feet), expressed as percent of the total length of the section (3128).

% Pay Tolerance (N)

100

Wt/cu ft (N)

142.3

Enter the average density of roadway cores. This is the specific gravity of the average roadway cores x 62.4.

Square Yards (N)

6530

Enter the square yard of roadway covered by the material represented by the lot. Decimal is not allowed.

Theoretical Yield (N)

Actual Yield (N)

160.1

183.8

Enter the two yields computed using standard acceptable procedure.

Tons Current (N) Pay Item*

600 5011B

the three series of rows provided for the above fields are for reporting breakdown in tonnage in the event the penalty was applicable to portion of the tonnage in that lot. For example, part of the lot (tonnage) may be paid according to density and stability test for that lot and the remaining portion of the total tonnage may be based on surface tolerance parameter. Note that parenthesis in Item No. field is not allowed. For example, Item 501(1)(B) will be written as 5011B, or 5011BX if the item is to be paid for at 95 percent pay. For friction courses, be sure to enter the square yards field since the payment is based on this unit of measurement.

Remarks

SURF. TOL. WAS TESTED @ 1/4 IN.

Any pertinent remarks, with respect to the lot, can be made in this 54-character field. Refer to Section 3.2 for further definition of this field.

MTHM/PROJ NO/LOT NO/MIX USE/MIX TYPE/PURP CODE/ACTION CODE

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DAILY ASPHALTIC CONCRETE INSPECTION REPORTProj. No.* 8.4.6-10.-06 Lot No.* 1001 Mix Use 1 Mix Type 0.11 As 10.21

1-Roadway, 2-Pitch,
 3-Level, 4-Airbearing,
 5-Shoulder, 6-Interseal & Turnouts,
 7-Airport, 8-Miscellaneous

1-LWC, 2-LBC, 3-Zone, 4-ZBC, 5-SBC, 6-EGC,
 7-4WB, 8-4BC, 9-54, 10-55, 11-56 EGC,
 12-Slag EG, 13-Ton, 14-Ton EG, 14-Covered EG

Date Laid 10.8.10.8.11 Ajust. Period 12 Duration 10.8.16 Source Code* 116.04 JMF Seq. No. 11From Station* 01.07.145 To Station* 01.48.100 Location LL Purpose Code 3 Spec. Code 1From Station* 01.06.100 To Station* 01.48.100 Location RL N Grad. 12

1-Proj. Contr., 2-Verif.
 3-Accept., 4-Rec Test

3
12-11

Sample ID	TEST DATA				EXTRACTED GRADATION						Avg Dev	JMF	
	Spec Grav	Stability % VFA Corrected	ROADWAY TESTS	Spec. Grav.	Thick.	% Briquet Gravity	Sieve Test 1	Dev 1	Test 2	Dev 2	Average		
1-1	12.03.5	15.3	2.74	2.91	16.00	10.98.0.7	1 1/4				11.0		
1-2	12.03.4	15.7	4.75	2.74	16.63	10.95.0.7	1				11.0		100
1-3	12.03.3	12.3	2.72	2.28	16.7.5	10.97.0.4	3/4	100	100	11.0	11.0	94-100	
1-4	12.03.4	11.5.0	1.74	2.30	26.00	10.98.0.3	1/2	92	89	9.0	9.0	82-100	
1-5				2.26	16.5.0	10.96.0.6	3/8	-	-	-	-	-	
AVG	2.34	14.5	7.74	2.28		97.3	# 4	57	54	5.6	5.6	45-59	
% Pay		11.00			11.00		# 10	42	40	4.1	4.1	34-46	
							# 40	24	25	2.5	2.5	20-30	
							# 80	11	13	1.2	1.2	8-16	
							# 200	7	7	1.7	1.7	5-9	
Tolerance (3)	1 1/8, 2-3/16, 3 G.T. 3/16	Linear Ft	31.28				% A.C.	4.8	4.9	0.4	0.4	4.6-5.4	
Ft Outside Tolerance (4)		% Outside	10.1.3				Prntr	5.0	5.0	0.5	0.5		
% Pay Tolerance (1.00)		Sq Yds	65.30				Crushd	80	80	8.0	8.0	75 min	
Wt/cu ft (1.42.3)		Actual Yield	18.3.8				% Pay			11.0	11.0		
Theor Yield (1.60.1)													

Tons Previous	Tons Current	Tons To Date	Pay Item*
0.0	16.00	600	15.01.11B

Signature & Title abcSignature & Title xyzRemarks* SURFACE TOL WAS TESTED @
1/4 IN.Project Engineer's Signature Dfr

MTHM ***ASPHALTIC CONCRETE INSPECTION REPORT*** ACTION CD:

PROJ NO :	LOT NO:	MIX USE:	MIX TYPE:	AS:
DATE Laid:	PROJECT PER:	DURATION:	SOURCE:	OFF NO:
FROM STA :	TO STA :	LOC:	PURPOSE:	SPEC CODE:
FROM STA :	TO STA :	LOC:		N GRAD:
*** MARSHALL TESTS ***			ROADWAY ***	
SP.GR.	STAB	VFA	THICK	% BRIQ
:	:	:	:	:
:	:	:	:	1 1/4":
:	:	:	:	1":
:	:	:	:	3/4":
:	:	:	:	1/2":
:	:	:	:	3/8":
			#4:	
% PAY:			% PAY:	
SURFACE TOLERANCE				
TOL:	LN FT	:	#200:	
FT OUTSIDE:	% OUTSIDE:		%	
% PAY TOL:			PRNTR:	
WT/CU FT:	SQ YDS	:	CRUSHD:	
THEOR YIELD:	ACTUAL YIELD:		% PAY:	
TONS: ITEM:	TONS: ITEM:		TONS: ITEM:	
REMARKS:				

EXHIBIT HM-2

3.13 SOIL ANALYSIS

The data reported on this subsystem is geared towards providing information relative to the suitability of soil for earthwork construction. The form for reporting the data, which is generated by the district laboratory, is shown as Exhibit SA-1. It replaces the currently used work-report card. This revised form does not reflect any changes in test fields except that less information is required for entry of header fields than the other subsystems. The map that will appear on the terminal screen will look like Exhibit SA-2. Once again, only the blocked items or test fields will be entered on the map.

For discussion on header fields refer to Section 3.1 and Exhibit SA-1. The important thing to remember is that all black-colored fields must have values recorded in them.

Test Fields

Refer to the Exhibit for data entry format. All test fields are numeric except the last three items, Soil Group A, Class, and Remarks. Do not put NP for non-plastic material in the Plasticity Index field. If non-plastic, enter zero.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SOIL ANALYSIS

Project No.* 846-10-06
 Lab No.* 62-211392
 Submitted By 0622
 Spec. Code 3
 Ident* S-4
 Sample No.
 Pit No.
 Depth
 Remarks* DETERMINE % CEMENT & O.P.T. MC
 Item No.* 301(1)

PURPOSE CODES
 1. Proj. Cont.
 2. Verif.
 3. Acceptance
 4. Check
 5. Resample
 6. Source Appr.
 7. Design
 8. Rec Test
 9 Preliminary
 Source Test

Dry Wt. of Sample, gm _____ Graduate No. _____

TEMP, F	TIME	ELAPSED TIME	HYDRO. READING	CORRECTION	CORRECTED	% FINER
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Retained on 40	SIZE	WEIGHT	
Wt Cup + Soil	Total	_____	% Retained 5/4
Cup No.	3/4	_____	% Retained # 4
Wt. Cup	# 4	_____	% Retained # 10
Wt. Soil	# 10	_____	% Retained # 40
Retained on 200	# 40	_____	% Retained # 200
Wt. Cup + Soil	# 200	_____	% Silt
Cup No.	Silt	_____	% Clay & Colloids
Wt. Cup	% Clay &	_____	% Pass #10
Wt. Soil	Colloids	_____	% Pass #40
Liquid Limit			% Pass #200
No. Blows			% Organic Matter
Wt. Cup + Wet Soil			
Wt. Cup + Dry Soil			
Wt. Water			
Factor			
Wt. Cup + Dry Soil			Liquid Limit
Cup No.			Plasticity Index
Wt. Cup			Natural M. C., %
Wt. Dry Soil			Optimum M. C., %
% Moisture			Max. Density

PLASTIC LIMIT			
Wt. Cup + Wet Soil			% Cement/Lime
Wt. Cup + Dry Soil			Soil Group A*
Wt. Water			Class*
Wt. Cup + Dry Soil			PH
Cup No.			Resistivity
Wt. Cup			
Wt. Dry Soil			

PLASTIC LIMIT			
Wt. Cup + Wet Soil			% Cement/Lime
Wt. Cup + Dry Soil			Soil Group A*
Wt. Water			Class*
Wt. Cup + Dry Soil			PH
Cup No.			Resistivity
Wt. Cup			
Wt. Dry Soil			

Remarks* STABILIZE WITH 8% CEMENT BY VOL

Tested By abcChecked By lm

WTS-A

ACTION CODE:
SOIL ANALYSIS

PROJECT NO. :
LAB NO. :
SUBMITTED BY :
SPEC. CODE :
IDENT :
REMARKS:

ITEM NO.:
% RET. NO. 4
% SILT :
LIQUID LIMIT :
PLASTICITY INDEX :
OPTIMUM M. G., % :
MAX. DENSITY :
%CEMENT/LIME :
SOIL GROUP :
CLASS :
REMARKS:

DATE SAMPLED:
PURPOSE CODE:
DATE TESTED:
STATION :

EXHIBIT SA-2

3.14 DENSITY AND MOISTURE

This subsystem is geared towards providing entry, storage and retrieval of data on densities and moisture contents of embankment, base and subbase courses. One of the major changes is reflected in the test data form shown as Exhibit DM-1. The form, as shown, replaces the currently used volumeter, sand cone and nuclear test data forms. The form will be filled out by the field personnel in the appropriate fields for the method used for determination of density. Nonapplicable methods should be crossed out as shown in the Exhibit. The completed form will then be used to enter data in the various fields on the density-moisture map shown as Exhibit DM-2. Only data appearing in the open-ended blocks will be entered through the keyboard terminal. Discussion of each of the fields follows:

Project No.* 18.46 - 10 - 06

Same format as discussed in Section 3.1 should be used.

Date* (N)

07 - 18 - 77

This is the date the test was performed on the material.

*Required Entry
(N) - Numeric Key Shift

Material* (N)

10.3

Enter any one of the material codes listed on the form.

- 1 = Embankment
- 2 = Select material
- 3 = Soil-cement
- 4 = Stabilized sand-clay-gravel
- 5 = Stabilized sand-shell
- 6 = Lime stabilized sand-clay-gravel
- 7 = Sand-clay-gravel
- 8 = Shell
- 9 = Sand-shell
- 10 = Backfill material
- 11 = Other than those listed above

Purpose Code* (N)

3

Spec. Code* (N)

1

Refer to Section 3.1 for various codes on these items.

Item No.*

3.01.(1.)

See Section 3.1 and Exhibit DM-1.

Station Tested*

0,1,4,5,+3,0

For each test location, record the station number where the test was taken.

Zone and Test No.*

99-007

99-007A

99-007B

Entry in this field should be considered critical since it will provide the only link between passing and failing tests at a given location. The seven-block field is composed of zone number in the first two blocks, a dash in the third block followed by a three-digit test number, and a letter designation in the last block.

Explanation of each of these subfields is given below:

Zone No.: Use any letter designation from A to Z or numeric designation from 1 to 99 or a combination of alphabet letter and number. However, consistency should be maintained throughout the project.

Test No.: Use sequential numbering procedure from 1 to 999. The last block is reserved for letter designation only. This letter designation should be used only when the test represents a check or resample of the previous (original) failing test. Thus, in the example shown above, the second and third tests with letter designations A and B, respectively, signify that two check samples were taken to reinforce the finding indicated by the first sample. Notice that the zone number and test number in all three cases remain the same. This procedure will provide an easy system of cross referencing passing and failing locations.

Test Fields (N)

Enter appropriate computed value of each field in the space provided.

Only values in the open-ended blocks will be transmitted and stored in the computer system. Notice the three new fields, Optimum Moisture Content, Field Moisture Content at Compaction, and Percent Pulverization, the values for which were not required to be recorded on the old forms.

Remarks

A.V.G. O.F. T.E.S.T.S. 5., 6., 7., 8., 9.= 9.4. . 3
P.A.L.D. F.O.R. @ 7.5% U.N.D. E.R. 3.0.1.(1). (Y.)

This field should be used for the purpose discussed in Section 3.2.

WTDM / PROJ NO / MAT CODE /
DNE & TEST NO / ACTION CODE

**LA. DEPARTMENT OF TRANSPORTATION & DEVELOPMENT
DENSITY & MOISTURE CONTENT WORK SHEET**

Project No.* 846-10-06

Date 07-18-77

Material (1=Emb, 2=Sel, 3=SC, 4=ST SCG, 5=ST SS, 6=Lime SCG, 7=SCG, 8=Shell, 9=SS, 10=BF, 11=Other) Q31

Purpose Code 3

Spec Code 44

Item No.* 13.01.(1.)

Station tested*	145+30	145+35	145+75
Location	Rt 8'	Rr 7'	Rr 8'
Elevation of lift	190.0	190.0	190.0
Zone & Test Number*	99-007	99-007A	99-007B
SACD METHOD	NUCLEAR METHOD		
a: Wt. of sand in cylinder	b: Density Standard		
c: Vol. of cylinder	NB: Density Test		
d: Grav. wt. of sand (S1/SB)	NC: Count. Ratio (NB/NB)		
e: Grav. t. of sand	ND: Lbs. Wet density		
f: Final wt. of sand	NE: Moisture Standard		
g: Wt. of sand in cone	NF: Moisture Test		
h: Grav. wt. of sand	NG: Count. Ratio (WF/NE)		
i: Final wt. of sand	NH: Lbs. H ₂ O/cu.in.		
j: Wt. of sand in cone & hole	T: Dry wt. density (ND-NH)		
k: Wt. of sand in hole (S1-SF)			
l: Vol. of hole (SJ/SC)			
VOLUMETER METHOD			
VA: Volumeter final reading	0.0765		
VB: Volumeter zero reading	0		
V: Volume of hole	0.0765		
m: Net wt. of material in hole	8.87		
n: Net wt. of plus no. 4 material	0		
o: Net wt. of minus no. 4 material	8.87		
p: Net wt. of fine soil	271.0		
q: Net wt. of fine soil	246.4		
r: Net wt. of water	24.0		
s: Moisture content	10.0		
t: Net wt. of minus no. 4 material	8.06		
u: Net wt. of plus no. 4 material	0		
v: DRY WT. OF MATERIAL IN HOLE (N+1)	8.06		
w: DRY volume of plus no. 4 material (100V/160V)			
x: Dry wt. density from curve	113.4		
y: DRY PHYSICAL DENSITY			
z: DRY WEIGHT DENSITY OF TEST	105.4		
A: DRY COMPACTION	0.929	0.950	0.939
B: DRY MOISTURE CONTENT	112.0		
C: DRY AT COMPACTION	114.3		
D: DRY DENSIFICATION	178.		
E: Compacted volume. See Test No.			
Station Tested	145+30	145+30	
a: Wt. of mold & soil	13.56	13.48	
b: Wt. of mold	9.20	9.20	
c: Wt. of compacted soil a-b	4.36	4.28	
d: Wet wt. density c x 30	130.8	128.4	
e: Wt. of wet soil	289.4	288.4	
f: Wt. of dry soil	253.4	252.1	
g: Wt. of water e-f	36.0	36.3	
h: * Moisture content (106W/V) or (160WN/T)	14.2	14.4	
i: Dry wt. density 100d/100+e	114.5	112.2	
J: NO. OF CURVES NUMBER*			

REMARKS: AVG OF TESTS 5, 6, 7, 8, 9 = 94.3
PAID FOR @ 15% UNDER 301(1)(Y)

EXHIBIT DM-1

INSPECTOR

lin

DM-104

ACTION CODE:

DENSITY AND MOISTURE CONTENT

PROJECT NO. :

DATE:

MATERIAL TESTED :

PURPOSE CODE :

SPEC. CODE

ITEM NUMBER :

STATION TESTED :

ZONE AND TEST NO. :

DRY THEORETICAL DENSITY :

DRY WEIGHT DENSITY OF TEST :

PERCENT COMPACTION :

OPTIMUM MOISTURE CONTENT :

FIELD M. C. AT COMPACTION :

PERCENT PULVERIZATION :

FAMILY OF CURVES :

REMARKS :

EXHIBIT DM-2

3.15 THICKNESS AND WIDTH MEASUREMENTS OF BASE, SUBBASE AND AGGREGATE SURFACE COURSES

This subsystem will provide the capability for entry, storage, and retrieval of data on final corrected acceptance measurements of thickness and width of base and subbase courses, and of aggregate surface courses, as defined in test procedure LDOTD 602. The form that will be used for recording these measurements is shown as Exhibit TW-1. This form, which will be generated by the district laboratory, parallels the presently used pre-printed form 4195. The fields that will be entered through the terminal will be recorded in the blocked area. Notice that individual blocks within the blocked area are not shown. This had to be done for lack of sufficient space to include all the items shown. Within the blocked area, you are required to record the values within the constraint shown in parenthesis below each column heading. Thus Section No. cannot exceed 999, Plan Thickness cannot be greater than 99.99 inches, and so on. An example in the exhibit further clarifies this constraint.

Project No.*

18.46 - 10 - 06

See Section 3.1 for definition and data entry format.

*Required Entry
(N) ~ Numeric Key Shift

Material Code* (N)

103

The following materials and their codes are allowed:

- 1 = Embankment
- 2 = Select material
- 3 = Soil-cement
- 4 = Stabilized sand-clay-gravel
- 5 = Stabilized sand-shell
- 6 = Lime stabilized sand-clay-gravel
- 7 = Sand-clay-gravel
- 8 = Shell
- 9 = Sand-shell
- 10 = Backfill material
- 11 = Asphaltic concrete
- 12 = Aggregate surface course
- 13 = Total
- 14 = Other

Specification Code* (N)

1

Item No.*

301(1)

See Section 3.1 for definition of these fields.

Unit of Pay* (N)

1

Enter applicable Unit of Pay codes shown on the form.

Section No. (N)

100

Enter the assigned number to each 3000-foot section. The maximum number you can assign to the section is 999.

Section Length, ft (N)

10.00

Record the length of the section excluding lengths covered by bridges, etc. This length will be used to compute the quantity specified for the pay item.

Plan Thickness, in (N)

8.50

The maximum allowable number in this field can be 99.99. The thickness cannot be carried to more than two decimals.

Average Thickness, in (N)

9.17

This field requires entry of the average thickness for the section. The value, once again, cannot exceed 99.99 inches.

Plan Width, ft (N)

23.0

No more than one decimal place is allowed. The maximum number is 99.9 feet.

Average Width, ft (N)

23.2

Same constraint as above.

Remarks

S.E.C. 1.0.0.-7.9.2.F.T. E S.E.C. 1.0.1.-6.9.2.F.T.
B.R.1.D.G.E.S.

Record any remarks you may care to make for clarification of test data. See Section 3.2 for further details on this field.

MTTW/PROJ NO/MAT CODE/ACTION CODE

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
THICKNESS AND WIDTH MEASUREMENTS OF BASE AND SUB-BASE COURSES

Project No. 846-10-06

Material Code (1=Emb, 2=Sel, 3=SC, 4=ST SCG, 5=ST SS, 6=Lime SCG, 7=SCG, 8=Shell,

9=SS,10=BF,11=HMAC,12=Agg Surface Course,13=Total,14=Other 3

Spec. Code **1**

Item No. 301.(1.)

Unit of

1=Cu Yd
2=Sq Yd
3=Tea

Remarks: SEC 100 - 792 FT. & SEC 102 - 692 FT.
BRIDGES

EXHIBIT TW-1

MFTW

ACTION CODE:
THICKNESS AND WIDTH MEASUREMENTS OF BASE AND SUB-BASE COURSES

PROJECT NO.: 1

ITEM NO. 1

SECTION

LENGTH

MATERIAL CODE:

SPEC CODE

UNIT OF PAY

PL. 264-265

REMARKS:

EXHIBIT TW-2

3.16 MISCELLANEOUS MATERIALS

This is probably the most comprehensive of all the subsystems. It is designed to handle more than 70 different miscellaneous materials. The Central Laboratory in Baton Rouge will be the prime user of this subsystem. A complete list of all materials and their respective codes is included in this section. Because of the large number of miscellaneous material forms involved, they are not included in this manual. An example of one of the forms that will be used to record the test data is, however, included as Exhibit MS-1. Exhibit MS-2 is a corresponding map on the terminal screen.

Header Information

The header information will be provided by the submitter, on form 800, with appropriate data (or information) filled in the blocked fields according to requirements specified in Section 3.1. The information on form 800, as received, will be used for entry through the computer terminal. If proper entries are not made on form 800, the laboratory will have to complete these entries, as per requirements in Section 3.1, prior to data entry. This would mean, in some cases, generating new forms through transfer of information.

Test Data

The test data will be recorded on the forms specifically designed as work-test report sheets. As shown in Exhibit MS-1, the laboratory will fill out the data in the open-ended single-blocked areas shown under the column heading TEST RESULTS. No more than 15 characters

(test values, etc.) are allowed in this area. The last block, under the column heading P/F, is reserved for passing or failing comment in terms of P or F, respectively. The comment made in this column will determine the final remarks for disposition of the sample. You may leave any of the blocks blank.

Remarks

This field is reserved for specific comments of the type discussed in Section 3.2. Do not record comments such as: THIS SAMPLE CONFORMS (OR DOES NOT CONFORM) TO SPECIFICATIONS. This field should be used to cross reference failing samples, or the manner in which the failing sample was disposed as shown in the above example.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SAMPLE IDENTIFICATION

Received _____

Project No. *1846-10-06.....

Material Temporary Marking Tape 1.6.3
Code

Lab No. *22-266973

F.A.P. No. _____

Date Sampled 108-09-77

Submitted By Leey Mapes 10627
Gang No

Address _____

Quantity 1000 Units (For Misc only)

Purpose Code 3

Material Source Atlas Cons. Co. *9999
Code

Address _____

Sample Taken From Job Site

Specification Code S

P.O. No. *

Date Tested 108-115-77

Ident *ITM1

District _____

Use For Hot Mix Pavement Marking

Remarks* _____

Remarks 2 For Central Lab only

Item No *713121

(For multiple Item Nos, you must separate each Item No by a comma.
Do not leave any blanks within Item No or between Item Nos.)

EXHIBIT MS-1

PROJECT NO. 846-10-06

DATE TESTED 08-15-77

LAB. NO. 22-266873

TEMPORARY PAVEMENT MARKING TAPE

TEST RESULTS
(Max. of 15 characters)

P/F

COLOR

YELLOW

WIDTH, IN.

3 7/8

THICKNESS, MILS

16.0

REFLECTIVITY, AV. CP/FOOT CANDLE/SQ. FT. ($E_r d^2 / (E_r d^2 + EsA)$)

0.57

F
P
P

E_r = Illumination incident upon the specimen

E_s = Illumination incident upon the receiver

d = Distance in feet from the specimen to the projector

A = Area in square feet of the test surface

E_r _____ E_s _____
 d^2 _____ A _____
 $E_r d^2$ _____ EsA _____

REMARKS: _____

TESTED BY: abc

CHECKED BY: lmn

EXHIBIT MS-1

EXHIBIT MS-2

4 DATA HANDLING AND ERROR MESSAGES

General

In the preceding sections we had discussed how data is to be entered or recorded on the test report forms. Emphasis was also placed on the definition of different fields appearing on these test reports. This section attempts to discuss the procedure for entry of this recorded data through the district computer terminals. Once the data is entered into the system, how to inquire upon this data and also how to update or delete such existing data is likewise discussed in this section.

As you enter data through the terminal keyboard, edit checks are made to verify that the data as entered conform to the required format. If an error is detected, a message will be flashed on the terminal screen. Furthermore, all fields with error will be highlighted (will appear brighter than the other fields). The types of error messages and how to rectify them are also discussed in this section.

Data Sorting Before Entry

For rapid entry of data, the terminal operator should receive all test reports sorted by gang, projects within gang, and materials within projects. If this sorting is not done, and the different material test reports are intermixed, the operator will have to enter the transaction line numerous times on a given material. On the other hand, if they are sorted by gang, project and materials within project, the operator will have to enter the transaction line only

one time for that material. This will minimize the entry time considerably. The other reason for presorting before entry is that the summary reports you will get the next morning will be printed according to gang, projects within the gang, and materials within the project number. This will provide for easy check if the original test reports were sorted accordingly. The output report format is discussed in detail in the next chapter.

Data Transaction Through the Terminal

To accomplish any data transaction through the terminal, the first step is to key in the transaction line for that material. A transaction line is a composition of some of the key items or fields that are unique to a test report. For example, project number, material code, laboratory number, etc., are uniquely assigned to a given test or sample. On a given test report, one of these key items will be different than on any other test report. The transaction line for each material is preprinted in the upper left corner of that material test report form. Table DE-1 is a list of the transaction lines for each material subsystem we had discussed in the preceding sections. For Name subsystem transaction, refer to Section 2.

In each of the transaction lines listed in the table, and on each test report form, you are required to substitute the actual numbers for all items except the first and the last ones. Furthermore, these values should correspond to the format defined in Section 3.1, Header Information. The Action Code should be any one of the

characters shown in the table. Thus, if you are entering a new test record on a material, the Action Code would be an N. Likewise, you will key in the letter I if you are inquiring upon an existing record, or a U or a D if you are updating or deleting an existing record, respectively. Following is a step-by-step procedure for data entry, inquiry, update, and deletion through the computer terminal.

A. New Record (Action Code N)

1. Key in the transaction line for any of the subsystems listed in Table DE-1.
2. Depress the ENTER key.
 - a. If an error message appears on the screen, depress the CLEAR key and re-enter the transaction line. The various error messages are listed at the end of this subsection.
 - b. When the transaction line is error free, a formatted map for the subsystem will be projected to you on the terminal. An example of the formatted map for each subsystem listed in Table DE-1 appears in the preceding sections.
3. Key the value of each field from the form, making sure that the required fields (red color) are entered.
4. Depress the ENTER key after all the fields have been entered. If an error occurs, it will be highlighted. Move the cursor to the field of error. Key the corrections and depress ENTER. When the map is error free, a new blank map of the same subsystem will appear on the screen with a message ENTER NEW RECORD at the top of the screen. For some subsystems, instead of the blank map, you may get the map with the data of the previously entered test left in. In such cases enter new data in place of the existing ones (like an update). This capability will prove to be a great time-saver in instances where repetitious information has to be entered on a set of tests for a material.

B. Inquiry (Action Code I)

To inquire upon existing record (test, etc.), the following steps are necessary:

1. Key in the transaction line.
2. Depress the ENTER key.
 - a. If an error message appears on the screen, depress the CLEAR key and re-enter the transaction line. A list of error messages appears at the end of this subsection.
 - b. When the transaction line is error free, a data map of the inquired record is returned to you. If a copy of this test report is needed, depress the PA-2 key.

C. Update (Action Code U) (Transaction Items Cannot Be Updated)

1. Key in the transaction line.
2. Depress ENTER key.
 - a. If an error message appears on the screen, depress the CLEAR key and re-enter the transaction line.
 - b. When the transaction line is error free, a data map of the test record will be projected on the screen.
3. Key in the four-digit security code. If the error message INVALID SECURITY CODE appears on the screen, go to step 1 above.
4. Move the cursor to the field(s) to be updated or corrected.
5. Depress the ENTER key. If an error occurs, the error will be highlighted. Move the cursor to the error field, key in the corrections and once again depress the ENTER key. When the message RECORD UPDATED appears on the screen, go to step 6.
6. Depress CLEAR key.

D. Delete (Action Code D)

Follow the same steps listed under item C, Update, except that D should be substituted for U for the Action Code and step 4 should be skipped. Also the message in step 5 would read RECORD DELETED.

Multiple Maps

There are two subsystems, Asphaltic Concrete Job Mix Release and Miscellaneous Materials, that require two maps to complete data entry. The retrieval of the second portion of the map for the above subsystems is accomplished by pressing the ENTER key upon completion of the first portion of the map. When this is done the Asphaltic Concrete Job Mix Release subsystem will project only the remaining portion of the map with the cursor set at the first field, namely, 1 1/4 inch. In the case of Miscellaneous Material, pressing the ENTER key will project the second half of the map for that material including the entire header information that was also on the first portion of the map. However, the cursor will be positioned at the first test field on this second map. No entry will have to be made in the header information.

Miscellaneous Maintenance Map

For miscellaneous subsystem, it is possible for the user to create a map for any new material that may have to be added to the list. For example, if material A has to be added to the existing list shown on page 3.16-7, the terminal operator needs to first enter MTMM/N for transaction line. A blank map with the material code already assigned will appear on the screen. The operator will then enter the name or title of this new material and the test properties applicable to this material. After all the entries are made, the ENTER key is pressed and the new material goes into the system file as material 205. To retrieve this map for actual data entry, the appropriate transaction

line (MTMS..., etc.) is entered with the new material code 205 and the map created previously for this material will appear on the screen for data entry.

TABLE DE-1: LIST OF TRANSACTION LINES FOR VARIOUS MATT SUBSYSTEMS

SUBSYSTEM NAME	MATT ID	TRANSACTION LINE
NAME	....	MTNM SOURCE TYPE CODE/ACTION CODE (N,I,U,D,L)/SEQUENCE NO
PROJECT INFORMATION	....	MTPI, PROJ NO/ACTION CODE (N,I,U)
ROADWAY XSECTION	....	MTRC, PROJ NO/ACTION CODE (U,I)
AGGREGATE	B	MTAG, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
ASPHALT CEMENT	C	MTAC, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
Liquid ASPHALT	D	MTLA, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
CEMENT	E	MTCT, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
STEEL BAR	F	MTSB, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
STEEL WIRE	G	MTSW, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
CONCRETE JOBMIX	A,I	MTCU, PROJ NO/MATERIAL ID/MATERIAL CODE/ACTION CODE (N,I,U,D)
STRUCTURAL CONCRETE	A	MTSC, PROJ NO/MATERIAL CODE/LOT NO/ACTION (N,I,U,D)
PAVING CONCRETE	I	MTPC/PROJ NO/MATERIAL CODE/LOT NO/ACTION (N,I,U,D)
ASPHALT CONCRETE JOBMIX	H	MTUJ, PROJ NO/SEQUENCE NO/ACTION CODE (N,I,U,D)
ASPHALT CONCRETE INSPECTION	H	MTHM, PROJ NO/LOT NO/MIX USE/MIX TYPE/PURPOSE CODE/ACTION CODE (N,I,U,D)
SOIL ANALYSIS	L	MTSA, PROJ NO/LAB NO/ACTION CODE (N,I,U,D)
DENSITY/MOISTURE	J	MTDM, PROJ NO/MATERIAL CODE/ZONE & TEST NO/ACTION NO (N,I,U,D)
THICKNESS/WIDTH	K	MTTW, PROJ NO/MATERIAL CODE/ACTION CODE (N,I,U,D)
MISCELLANEOUS DATA ENTRY	M	MTHS, PROJ NO/MATERIAL CODE/LAB NO/ACTION CODE (N,I,U,D)
MISCELLANEOUS MAINTENANCE	....	MTMM, ACTION CODE (N,I,U,D)
REPORT REQUEST	....	MTRP, DISTRICT NO/PROJ NO/REPORT TYPE CODE/OPTION CODE/ACTION CODE (N,I,D)
REPORT RETRIEVAL	....	MTLE/DISTRICT NO/1=LOG, 2=EXCEPTION, 3=2059
NOTE.....	.....	SOURCE TYPE CODES ARE: B=CONTRACTORS,C=MATERIAL PRODUCERS,D=SUBMITTERS REPORT TYPE CODES ARE: 1=COMPLETE LOGGING, 2=2059,3=STAX SUMMARY OPTION CODES ARE: 1=ON-LINE,2=OFF-LINE(MAILED) ACTION CODES ARE: N=NEW, I=INQUIRY, U=UPDATE, D=DELETE & L=BROWSE

Error Messages

1. PROJECT NOT ON FILE

This message will appear when you attempt to enter new record (N) on a project number that is not in Project Information file.

2. RECORD NOT FOUND

This will happen whenever the action code is an I, U, or D.

3. INVALID PROJECT NO.,

INVALID MATERIAL CODE,

INVALID LAB. NO., or

INVALID.....any one of the key items listed on the transaction lines.

Check the required format and/or the material codes.

4. INVALID SECURITY CODE

5. REQUIRED FIELD NOT ENTERED

6. NOT ON FILE

Check the material codes and the source, supplier, and submitter list.

7. INVALID DATA IN ERROR FIELD

Check the format and other requirements for the error field.

8. PARISH ENTERED IS NOT WITHIN THE DISTRICT ENTERED

This message will appear when you are entering new data on Project Information map.

5 TEST REPORTS

All data entered through the terminal will be processed that night at the central computer center in Baton Rouge. This processing will involve checking of each material test against its applicable specifications, and creating computer file with a pass/fail key for that material. The next morning you will be able to retrieve the following types of reports:

- + Logging Reports
- + Exception Reports

Logging Reports

The logging reports are the summary type reports consisting of information relative to the project, identification, purpose, material, quantity, item number and pass/fail comment. In some cases (structural concrete, asphaltic concrete, density/moisture tests) critical numerical values of the measured acceptance criteria will also be printed. Exhibit TR-1 is an example of logging report for Soils Analysis Tests and miscellaneous materials for gang 623 on a project. Exhibit TR-2 is similar logging report for hot mix and density/moisture. Notice that values of the measured variables are printed in this report.

Exception Reports

The above logging reports will be supplemented with exception reports on failing materials or tests. In other words, you will not get a

standard report on passing materials or tests.* An example of an exception report is shown as Exhibit TR-3. This sample had appeared as failing sample on the logging report in Exhibit TR-1.

In addition to printing logging reports on materials entered by your district, the system will also provide you with similar reports on materials submitted by your district but tested and transmitted elsewhere. This means that all testing and reporting that is done by the Central Laboratory for your district will be printed on your terminal printer. This will greatly minimize delays associated with mailing of such reports to the various districts.

Special Reports

Special reports are reports other than those listed above. These reports will be issued at the user's request. At the present time three types of special reports will be provided:

- + Complete logging report
- + Partial or final document for project certification (2059)
- + Statistical summary report**

*The Central Laboratory will get all reports, passing and failing. Furthermore, the districts will also get, at their terminal, reports on failing samples tested by the Central Laboratory.

**Not operational.

Complete Logging Report

This report will be similar to the daily logging report discussed above except that it will be on the entire project. This report will be preliminary to the 2059 report. The major thrust towards issuance of this logging report is to allow the project engineers to ascertain that all test data have been entered into the system and that they are error free. For example, disposition of all failing samples will have to be indicated in the REMARKS field of each test record (see Section 3.2). Furthermore, these logging reports will also be thoroughly reviewed to make sure that the ITEM NO. entry has been made according to the required format.

Document for Certification (2059)

This report should be considered the end result of the MATT System. The report will be issued only after the complete logging report has been retrieved, reviewed and updated.

The basic format of this 2059 report will be similar to the logging report except that it will be item no. oriented. In other words, all materials will be reported under the item no. for which they were sampled and tested. Furthermore, all coded fields will appear decoded in the report.

The 2059 will be composed of three parts. Part one will consist of a listing of all materials and/or tests under their respective item

4. If the transaction line is error-free, you will receive a map, such as the one shown in Exhibit 6, on the terminal screen with all the transaction information filled in appropriate places on the map.
 - a. If the section code was 'N', you will receive a message 'REQUEST ACKNOWLEDGED' at the upper left corner of the screen.
 - b. If the Action Code was an 'I', you will receive a map of information such as in Exhibit 6. Depressing the ENTER key again will project the next map, and so on. This action code will let you browse through the file.
However, this browsing will be effective for that day only.
 - c. If the Action Code was a 'D', you will receive the message (in the upper left corner) 'TO DELETE HIT ENTER** TO ABORT HIT CLEAR'. This action code will allow you to delete your request if, for any reason, you do not desire the complete logging or 2059 report.
However, you should request this deletion the same day.
5. If a type 3 report is requested, additional information must be entered. This information will be entered on the screen after you have received the message 'ENTER MATT ID AND MATERIAL CODE'
6. Next day these reports can be retrieved as discussed in the next subsection.

Retrieval of Test Reports

Following is a step-by-step procedure for retrieving and printing the above test reports on the terminal screen and printer, respectively.

1. Key in any one of the following transaction lines:
 - + MTLE/DIST NO/1 - for all Logging Reports
 - + MTLE/DIST NO/2 - for Exception Reports
 - + MTLE/DIST NO/3 - for 2059
2. Depress ENTER key.
If any logging or exception reports are ready, the first will appear on the screen.
3. Move the printer paper to the top of a new page.
4. Depress PA2 key to print the map of the report projected on the screen.
5. Depress ENTER key when the above printing is finished.
This will project the next map of the report. If this map has the DOTD header, then go to step 3; otherwise, go to step 4.
6. Repeat step 5 for additional reports.
7. When the message NO ADDITIONAL RECORDS FOR THIS DISTRICT appears on the screen, you are through receiving all of your reports.

If you want to look at any gang's reports, you may do so by putting the gang number on the transaction line as follows:

MTLE/DIST NO/1/GANG NO

or MTLE/DIST NO/2/GANG NO

The above option is not available for 2059.

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
LOGGING REPORT FOR
GANG 623

69-05-78

713-40-55 SOILS ANALYSIS TESTS

LAB. NUMBER	DATE SAMPLED	P S C C	IDENT	STATION	ITEM NUMBER	PL	OPT M.C.	CHT/ SOIL LIKE GROUP
62-221238	07-31-78	3 1	S-4	264+50	301(1)	C7	11.6	10 4(B)
62-221239	07-31-78	3 1	S-2	273+00	301(1)	C8	11.6	10 4(B)
62-221240	07-31-78	3 1	S-3	284+00	301(1)	C3	11.6	10 4(B)
62-221241	07-31-78	3 1	S-4	291+00	301(1)	C4	11.6	10 4(B)
62-221242	08-07-78	1 1	S-3A	286+00	301(1)	OO	21.6	10 4(B)

713-40-56 MISCELLANEOUS MATERIAL TESTS

MAT. CODE NUMBER	LAB. CODE	PURP CODE	SPEC CODE	DATE SAMPLED	ITEM NUMBER	QTY	UNIT	PASS	
136	22-282630	3	1	MW-1	05-12-78	705(2)	20	ROL	PASS
106	22-282631	3	1	EU-1	05-12-78	705(2)	40	ROL	FAIL
158	22-282632	3	1	MW-1	05-12-78	705(2)	1000	EA	PASS
155	22-282644	3	1	S-1	05-15-78	705(2)	50	LBS	PASS
149	22-282645	3	1		05-16-78	705(2)			PASS
139	22-282647	3	1	C-1	05-12-78	705(2)	7000	EA	PASS
106	22-283422	3	1	EU2	05-24-78	705(1)	40	RLS	PASS
						705(2)			
169	22-288328	3	1	W-1	08-07-78	301(1)			PASS
105	22-289283	3	1	CS1	08-17-78	501(1)(A)	7200	LBS	PASS

EXHIBIT TR-1

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
LOGGING REPORT FOR
GANG 623

69-05-78

713-40-56 HOT MIX ASPHALTIC CONCRETE TESTS

LOT NO.	MIX USE TYPE AS	PURP CODE	DATE LAID	ADJUST PER.	JMP SEQ	ITEMS	TONS	SPEC VALUE	PAY
601	1 01 01	3	08-17-78	1	01	5011A	627	STAB: 1739	100
								COMP: 96.6	100
								TOL : 9.17	100
								GRAD:	100
601	1 01 01	2	08-17-78	1	01	5011A		STAB: 1768	
								COMP: 96.8	
								TOL :	
								GRAD:	
602	1 01 01	3	08-18-78	1	01	5011A	166	STAB: 1801	100
								COMP: 97.4	100
								TOL : 0.32	100
								GRAD:	100
602	1 01 01	2	08-18-78	1	01	5011A		STAB: 1674	
								COMP: 96.0	
								TOL :	
								GRAD:	

713-40-56 DENSITY AND MOISTURE CONTENT TESTS

MAT. CODE	ZONE TEST	PURP CODE	SPEC CODE	DATE TESTED	STATION	ITEM NUMBER	COMP.	M.C.	PASS
01	01-001	3	1	06-24-78	265+50	203(4)	96.8		PASS
01	02-001	3	1	07-05-78	279+50	203(4)	101.8		PASS
01	03-001	3	1	07-05-78	269+15	203(4)	100.2		PASS
01	04-001	3	1	07-10-78	292+00	203(4)	98.2		PASS
03	01-001	3	1	08-08-78	267+00	301(1)	96.2	11.6	PASS

EXHIBIT TR-2

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
EXCEPTION REPORT FOR THE TEST OF
BAKED WIRE(106)
DISTRICT 62

PROJECT NUMBER..213-40-56 DATE SAMPLED..05-12-78
LAB NUMBER....22-202631 DATE TESTED..05-17-78
IDENT...EW-1 QUANTITY.....40 ROL
PURPOSE..ACCEPTANCE SPEC CODE.....1
SUBMITTED BY..H. P. DEKERLEGAND-PROJECT ENGINEER
SOURCE..LA. FAVING CO., INC.
REMARKS..
MTL NOT USED, REPLACED BY LAB NO 22-263427.

ITEM NO.	TEST PROPERTY	VALUE	REMARKS
	SPACING OF BARS, IN.	5.200	FAIL
	NO. OF POINTS PER BARB	4 POINTS	PASS
	TYPE OF BARS	DOUBLE WRAPPED	PASS
	GAGE OF BARS	14	PASS
	GAGE OF WIRE	12	PASS
	BREAKING STRENGTH/LBF.	975	PASS
	SPELTER COATING/DZ./SQ. FT.	0.22	FAIL

REMARKS..THE ABOVE TEST RESULTS DO NOT CONFORM TO SPECIFICATIONS

COPIES TO:
H. P. DEKERLEGAND-PROJECT ENGINEER
DISTRICT LAB ENGINEER
DISTRICT ENGINEER

HOLLIS B. RUSHING BY
MATERIALS ENGINEER

EXHIBIT TR-3

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
MATERIAL TESTING SYSTEM
SPECIAL REPORT FOR 2059
PROJECT NO. 276-05-09

ITEM NO. 401(2)
MATERIAL CODE 221 - SHELL FOR SURFACE COURSE

LAB. NUMBER	PURP. CODE	SPEC. CODE	IDENT	DATE SAMPLED	PASS QTY.	FAIL
62-220432	ACCEPT.	1	3	07-05-78	1000	FAIL
62-220433	ACCEPT.	1	4	07-05-78	1300	FAIL
62-220653	ACCEPT.	1	5-5	07-13-78	1000	PASS
62-220705	ACCEPT.	1	5-6	07-14-78	1000	PASS
62-223706	ACCEPT.	1	5-7	07-14-78	1000	PASS
62-220767	ACCEPT.	1	5-8	07-17-78	1000	FAIL

TOTAL QUANTITY 3000

ITEM NO. 501(1)(A)
MATERIAL CODE 248 - CEMENT STACK DUST MINERAL FILLER

LAB. NUMBER	PURP. CODE	SPEC. CODE	IDENT	DATE SAMPLED	PASS QTY.	FAIL
62-219590	ACCEPT.	1	S-1	06-05-78	21	PASS
62-220654	ACCEPT.	1	S-2	07-07-78	21	FAIL

TOTAL QUANTITY 21

MATERIAL CODE 259 - SAND EQUIVALENT FOR FINE SAND

62-220346	ACCEPT.	1	S-1	06-27-78	PASS
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MATERIAL CODE 230 - ASPHALT CEMENT GRADE AC-30

LAB. NUMBER	PURP. CODE	SPEC. CODE	IDENT	DATE SAMPLED	PASS QTY.	FAIL
22-284404	ACCEPT.	1	S-2	06-01-78	5992	100
62-219587	ACCEPT.	1	S-1	05-30-78	5162	100
62-219589	ACCEPT.	1	S-3	06-05-78	5644	100
62-220509	ACCEPT.	1	S-11	06-30-78	5627	100
62-220510	ACCEPT.	1	S-12	06-30-78	5338	100
62-220511	ACCEPT.	1	S-13	06-30-78	5549	100
62-270622	ACCEPT.	1	S-14	06-30-78	5347	100
62-220623	ACCEPT.	1	S-15	07-07-78	5166	100
62-220625	ACCEPT.	1	S-17	07-08-78	5719	100

DISPOSITION OF FAILING TESTS ON PROJECT 276-05-09

ITEM NO 401(2)
MATERIAL CODE 221 - SHELL FOR SURFACE COURSE

LAB NO : 62-220432 ID:3
REMARKS: SEE SAMPLE ID 5, LAB NO 62-220653, FOR PASSING RESULTS

LAB NO : 62-220433 ID:4
REMARKS: SEE SAMPLE ID S-8 LAB NO 62-220705, FOR PASSING RESULTS

LAB NO : 62-220767 ID:S-8
REMARKS: NOT USED ON PROJECT

ITEM NO 501(1)(A)
MATERIAL CODE 248 - CEMENT STACK DUST MINERAL FILLER

LAB NO : 62-220654 ID:S-2
REMARKS: SEE ATTACHED LETTER OF 07-28-78 FOR DETAIL EXPLANATION

JOB MIX RELEASES ON PROJECT 276-05-09

JOB MIX RELEASE SEQUENCE NO : 1
MATERIAL CODE 01 - TYPE 1 WEARING COURSE

EXHIBIT TR-4

GANG	CLASS	PROJECT	VARIANCE	NUR	Avg MEAN	CV
521	A N	4510651	79	74	4943	1.6
521	A N	4510717	93	35	3911	2.4
521	A N	4510722	142	3	4501	3.2
521	A N	8370406	156	8	3892	4.0
522	AA	3310106	108	60	4632	2.3
522	AA	8340803	133	50	4661	3.0
522	A C	3310106	130	39	4811	2.7
522	A C	8340803	126	22	4670	2.7
522	A N	0010940	247	4	4503	5.5
522	A N	0160112	93	5	4260	2.2
522	A N	3150105	33	2	4252	0.8
522	A N	3310106	93	3	4617	2.6
525	AA	0700615	108	89	4527	2.4
525	AA	3140110	109	20	4892	2.2
525	AA	8310716	143	44	4353	3.3
525	A C	0700615	107	32	4598	2.2
525	A C	3140110	71	8	4982	1.4
525	A C	8310716	131	18	4391	3.0
525	A C	8340803	98	2	4298	2.3
525	A N	3140110	50	2	4605	1.1
525	A N	8310716	111	9	4296	2.6
525	R N	0700421	80	4	3923	2.0
525	R N	0700615	95	3	2069	4.6
525	R N	4510529	97	15	2696	3.6
525	R N	8310716	71	2	3157	2.2
527	AA	0160112	146	80	4690	3.1
527	AA	0230619	189	2	4627	4.1
527	AA	3310106	106	4	4585	2.3
527	A C	0150822	189	2	4142	4.6
527	A C	0160112	122	44	4593	2.7
527	A C	0160113	76	10	5325	1.6
527	A C	3310106	139	4	5113	2.7
527	A C	8340803	100	2	4372	2.3
527	A N	0010940	124	1	4047	3.1
527	A N	0160112	148	9	4292	3.5
527	A N	3150105	134	32	3586	3.7
527	A N	315105	83	1	3707	2.2
527	A N	4510639	24	1	4050	0.6
527	R N	0160113	77	2	3397	2.3
528	AA	0230619	108	54	4921	2.2
528	AA	0230626	123	8	4233	2.9
528	AA	0230629	111	10	4743	2.3
528	AA	0670515	132	55	4744	2.8
528	AA	3310106	59	2	4327	1.6
528	A C	0230619	110	57	4466	2.5
528	A C	0230626	177	10	4329	4.1
528	A C	0230629	85	26	4572	1.9
528	A C	0670515	174	59	4454	3.9
528	A C	230619	118	1	4307	2.7
528	A C	3310106	53	2	4622	1.2
528	A N	0230619	107	169	4043	2.6
528	A N	0230629	137	5	4850	2.8
528	A N	0670416	59	1	4420	1.3

EXHIBIT TR-5

MTRR

*** MATERIAL TESTING SYSTEM ***

REPORT REQUEST SCREEN

ACTION CODE : D

TO DELETE HIT ENTER**TO ABORT HIT CLEAR

REQUESTOR DISTRICT : 22

PROJECT NUMBER : 111-11-11

REPORT TYPE CODE NO. : 1 (1-COMPLETE LOGGING, 2-2059,) (3-STATISTICAL SUMMARY)

TRANSMIT OR MAIL (1 OR 2) : 1

*** FOR STATISTICAL SUMMARY ONLY ***

MATT-ID :

MATERIAL CODE :

REQUESTOR NAME :

EXHIBIT TR-6

6. LIST OF CONTRACTORS

LIST OF MATT SYSTEM CONTRACTORS

NAME	CODE
A & R FENCE CO.	0694
A T & SANTA FE PR	0442
A.F. BLAIR CO., INC.	0469
AAB ELECTRICAL IND., INC.	0684
ACADIA PARISH POLICE JURY	0517
ACADIAN ENGR CO	0303
ACDO ENGINEERS, INC	0566
ADH SYSTEMS INC.	0567
AILLET PENNER JOLLY & MCCLELLAND INC	0402
AIRTROL ENGR CO INC	0325
ALA. GREAT SOU. RR	0337
ALDER ELECTRIC CO.	0641
ALDRICH, W R & CO	0001
ALEXANDER, EARL	0333
ALEXANDRIA CONST CO	0538
ALLEN BROTHERS, INC.	0003
ALLEN H L & SONS INC	0002
ALLIED CH. LK. FENCE	0006
ALLIED STRUCT. STEEL	0004
ALPHA CONSTR. CO., INC.	0473
AMBERG TRUCKING, INC	0467
AMBERG, J. C.	0008
AMERIC CONSTRUCTORS OF N.D., INC	0533
AMERICAN BR DIV US ST	0010
AMERICAN CREOSOTE WK	0009
AMERICAN UNITED PRODUCTS CORP.	0659
AMERICAN UNITED PRODUCTS CORPORATION	0658
AMITE SAND & GRAVEL	0011
AMYX GRAVEL CO.	0012
ANDERSON - DUNHAM	0022
ANDERSON GRAVEL CO	0014
ANDERSON STANLEY CTR	0015
ANTHONY J. GENDUSA, JR.	0514
ANTHONY J. BERTUCCI CONST. CO., INC.	0607
ARGONAUT INSURANCE CO.	0500
ARK & LA MJ. RR	0371
ARNOLD CONST CO.	0017
ARNOLD, C. A.	0016
ARROW CONST CO INC	0383
ASPHALTIC MATERIALS, INC	0471
ASSOCIATED WATERPROOFING CORP.	0508
ATLAS CONST CO INC & JAHNKE SERVICE INC	0429
ATLAS CONST. CO., INC & BARBER BROS. CON	0463
ATLAS CONST CO.	0005
ATLAS CONST. CO AND YATES & PATTERSON A	0455
ATWOOD FENCE CO., KOSCILSKO, MISS.	0700
ATWOOD FENCE CO., KOSCILSKO, MISS	0683
AUCOIN, L J & ASSOC.	0263
AUCOIN, ROY A., INC.	0019
AUCOIN, ROY CTRS INC	0018
AUSTIN BRIDGE CO	0020
AVONDALE SHIPYARDS	0279
AYERS MATERIALS CO	0021
B & T ENGINEERING CO	0281

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NAME	CODE
B. F. DIAMOND CONSTRUCTION COMPANY, INC.	0638
BABIN, LOGAN H.	0318
BAGWELL COATINGS	0531
BAGWELL-NEAL, INC	0023
BAILEY, ROY, CONTRACTORS, INC., CREOLE, LA.	0656
BAKER-WISSELER ASSOC	0205
BAMBER CTRS. INC.	0024
BARBER BROS CTR. CO	0025
BARNARD & BURK	0211
BARNARD, BROUILLETTE & THOMAS	0568
BARRIERE CONST CO INC	0527
BARTLEY, INC.	0494
BATON ROUGE CONSTRUCTORS, INC.	0595
BAUER DREDGING	0026
BD OF COMM PORT NO	0320
BEALL ENGRS., INC.	0374
BEASLEY JOHN F CONST	0027
BEISWENGER, HOCH & ASSOC., INC.	0462
BELL CONSTRUCTION CO.	0696
BENTZ & ELMORE	0192
BERGERON AND LANG	0486
BERNARD BURK HOWARD NEEDLES TAMMEN & BER	0411
BERNSTEIN, ERNEST R.	0331
BERRY BROTHERS GENERAL CONTRACTORS, INC.	0640
BETHLEHEM STEEL CO.	0029
BI-CO PAVERS, INC.	0328
BIENVENU H L	0410
BIENVILLE PH. P JURY	0323
BINDER J H GRAVEL	0403
BLOUNT BRC'S. CORP.	0030
BOARD OF OPERATORS OF BELLE CHASSE FERRY	0543
BOARD OF OPEATORS POINTE A LA HACHE FY	0440
BOB FINLEY	0534
BOB JONES CONST CO INC	0542
BOQUE CHITTO S/G CO.	0031
BOH BROS CONST CO	0032
BOLT, BEVANEK & NEWMAN INC	0525
BOSSIER, CITY OF	0344
BOSSIER, L. H. INC.	0033
BOUDREAU PAUL ASSOC	0282
BOVAY ENGRS. INC.	0510
BRASWELL SAND & GRAVEL CO, INC.	0477
BREIT & GARCIA, NAVAL ARCHITECTS	0635
BREIT ENGINEERING, INC.	0552
BROADMOOR CORPORATION	0642
BROUSSARD, A B	0443
BROWN & BUTLER ENGRS	0198
BROWN & GRUBE CONST	0345
BROWN & ROOT, INC.	0035
BROWN F. NELSON & PAMPER CORP., A JOINT	0610
BROWN, L T CTR. INC.	0034
BUCHART-HORN	0430
BUQUET & LEBLANC, INC.	0475
BURK & ASSOC. AND FROMHERZ ENGRS	0482

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BURK & ASSOC., INC.
BURTON, W. T. CO INC
C. E. EVANS & CO., INC.
C. H. FENSTERMAKER & ASSOC.
C. O. CONSTR CO
C.G. SMITH CO
C.G. SMITH CO
C.R.I. & P. RR
CADDY PH POLICE JURY
CADDY ROAD CO., INC.
CADDY-BOSSIER COUNCIL OF LOCAL GOVERN.
CAFFERY, D. RALPH
CALCASIEU PARISH POLICE JURY
CALDWELL, E. A. CIR.
CAMPBELL CONSTR. CO.
CANUS ELEC. CO. INC.
CAPITAL REGION PLANNING COMMISSION
CARRERE, E. A. SONS
CARROLL S/G CO.
CEMENT PRODUCTS SERVICES INC., BR. LA.
CEMENT PRODUCTS SERVICES, INC.
CENLIA ASPHALT CORP.
CENTRAL CNSTR. CO
CHANDLER TESTING LABORATORY, INC.
CHANAY FENCE CORP.
CHARVES CARTER & CO.
CHEVALIER, W. T.
CHIJSUM, A. B. GRAVEL
CHOCTAW CONSTRUCTION & SUPPLY COMPANY
CIRCLE, INC.
CITY OF EUNICE
CITY OF LAKE CHARLES
CITY OF MONROE
CITY OF SHREVEPORT
CLAIBORNE PH P. JURY
CLARAY AND ASSOCIATES INC
CLEMENT, DONALD M.
CLK, 1ST JUD DIST CT
COAST ELEC POWER
COASTAL CTRS.* INC
COASTAL ENVIRONMENTS, INC.
COASTAL LISP & DVG
COASTAL TIMBERS, INC.
COBB, W. P.
COLFAX GEOSEATING CO
COLLIER AUTOMATIC FIRE SYSTEM, INC.
COMMERCIAL & MARINE ELECTRIC CO., INC.
CON-RECO INC.
CONCORONA CONTRACTING CO., INC.

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COOK CONST. CO.	0051
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CORE CONTRACTOR, INC	0057
CORE, W. R., INC.	0056
COPPINNEY COSTR. CO.	0054
COURTFNEY, E. J.	0055
COVINGTON S. L INC	0400
COX, ROSS E. GEN CTR	0270
CRAIG LAIRD PEARSON	0200
CRAYON BROTHERS INC.	0536
CROWN - ZELLERBACH	0319
CRUSKE CONST. CO.	0381
CUNNINGHAM MCCULLEN	0058
CURTIS & DAVIS ARCHITECTS & PLANNERS, IN	0570
CYPRESS CONST. CO., INC	0465
D & J CONST CG INC	0446
D. A. DALTON CONTRACTORS	0496
DALIGRE L.J. ASSO	0419
DANIEL-RYDER, INC.	0377
DANIEL, J. W.	0059
DAVID H. STIEL, JR.	0470
DAVIS NURSERY	0644
DAWSON ENGINEERS	0551
DEFRAITES ASSOCIATES	0210
DELAUREAL ENGRS., INC	0195
DELTA CONSTRUCTION	0389
DELTA GRAVEL, INC.	0060
DELTA PAVING CO.	0061
DELTA TESTING & INSPI	0230
DELTA UTILITY CONSTRUCTION CO., INC.	0596
DEMELLO & FERGUSON	0206
DESOTO PH B. BURY	0348
DIAPOLA S. S. CO., INC.	0062
DIVERSACON INDUSTRIES	0495
DIVISION OF STATE POLICE, STATE OF LA.	0609
DIXIE CONTRACTORS	0503
DIXIE COV'R INC	0395
DOLPHIN CONST	0547
DOMINIQUE, AZAD	0290
DORNBLATT, B. M.	0365
DRAVO CORPORATION	0063
DUNHAN CILLS., INC.	0664
DURABLE, INC.	0688
DURR & WOGTY, INC.	0362
DYNAMIC PAINTING AND DEC. CO.	0698
E.B.R. PUBLISH	0276
E.C.SCHAFFER CONST. CO.	0722
EARL CLAYMAN CONC. PROJECTS	0460
EARNEST, L. J.	0278
EAST SIDE GRAVEL CO.	0264
EASTON STEWART & ASSOC	0526
EDISON FENCE CO., INC.	0603
EDGAR M. WILLIAMS	0602
EDWARD SPARKS & ASSOCIATES	0571

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ENDICON, DIVISION U. S. INDUSTRIES, INC.	0645
ENOS FANGUE CONSTRUCTION CO.	0622
ENVIRONMENTAL PLANNERS & ASSOC., INC.	0616
EQUIPABLE EQUIPMENT CO., INC.	0592
EQUITABLE SHIPYARDS , INC.	0691
ERASIE FONTENOT	0537
ERNEST P. BREAUX ELECTRIC, INC.	0648
ERNST & ERNST	0259
ESTAN LEBLANC	0633
EUSTIS ENGR. CO.	0194
EVANS, EDWARD E.	0207
EWIN ENGR. CORP. OF LA, INC.	0481
EWING, J. B. & SONS	0065
EXXON COMPANY, U.S.A.	0528
F. C. BARRON, GENERAL CONTRACTOR	0597
F. G. SULLIVAN	0680
FAIRBANKS MORSE, INC.	0387
FAIRCHILD, W. R.	0066
FALCO, C. S. & CO.	0067
FARVER CONSTRA CO., INC	0479
FARNSWORTH, PRATT	0068
FELICIANA S/G CO.	0071
FENET, INC.	0069
FHWA	0603
FINLEY, SAM INC.	0070
FLENNICKEN CNSTR. CO	0072
FORREST HALL FLEC CO	0302
FORTE & TABLADA INC	0418
FOSCO FABRICATORS	0073
FOSTER & CREIGHTON	0074
FDALEE, H B & CO INC	0438
FRANCIS, JOE M.	0257
FRANKLAND & LEIANHARD AND McDUESKI & MASTERS	0572
FRAZIER EQUAL L	0412
FRED H. MCRAE CONSTR. CO.	0076
FREEMAN'S SIGN ERECTION & FVT. MARKINGS, BR. LA.	0681
FREMINT-SWIFT SERVICE	0075
FRIECE & GOLDMAN, INC	0573
FRISCHHERZ ELECTRIC	0280
FRWHERZ ENGRS., C.E.	0251
FRUIN-CJLNCN CTR. CO	0077
GANDOLFO KUHN & ASSO	0320
GENERAL S/G CO.	0271
GEO CAMPBELL PAINT	0078
GEORGE CONSOLIDATED	0079
GEORGIA PACIFIC GRP.	0501
GIFFORD HILL CO.	0080
GILLEN ENGINEERING CO., INC	0575
GIRD MOTOR CO., INC	0081
GIRROD S/G CO., INC	0082
GORDON WALKER CONTR.	0386
GOSSETT DEMOLISHING	0380
GOURDON, LEROY E. CONST.CO., INC., OAKDALE, LA.	0693
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INDEPENDENCE S.G.CO.	0C99	LA. BOGD. DISTRICT 02, BRIDGE CITY	0672
INDUSTRIAL ENTERPRISES	0100	LA. BOGD. DISTRICT 03, LAFAYETTE	0673
INDUSTRIAL CONSTR	0335	LA. BOGD. DISTRICT 04, BOSSIER CITY	0674
INVEST SIGN ERECTOR	0101	LA. BOGD. DISTRICT 05, NOKRDE	0675
ISABEL SANE & G CO.	0423	LA. BOGD. DISTRICT 07, LAKE CHARLES	0677
J & N INDUSTRIAL PAINTING CO., INC.	0F63	LA. BOGD. DISTRICT 08, ALEXANDRIA	0678
J. BRIANT FICHINET & ASSOC.	C515	LA. BOGD. DISTRICT 58, CHASE	0679
J. W. FITZGERALD CONST	0105	LA. BOGD. DISTRICT 61, EATON ROUGE	0676
JACKSON PH P. JURRY	0242	LA. ELECTRA CO., INC.	0650
JAPCAE SERVICE	0102	LA. INDUSTRIES	0121
JAMES CORP OF OPELOUSAS	0532	LA. INDUSTRIES, INC.	0122
JAMES AGENT CONTRACTOR, INC.	0719	LA. INDUSTRIES	0124
JAMES, J. S. CONSTR.	0103	LA. PAYING CO., INC.	0631
JAMES, T. L. & CO	0104	LA. POWER & LIGHT CO.	0659
JASKIN CONTRACTORS, INC.	0702	LA. SAND AND GRAVEL CO.	0235
JEFFERSON DAVIS COMMUNITY ACTION ASSOC.	0643	LA. STATE UNIVERSITY	0499
JEFFERSON FH P. JURRY	0354	LA. TESTING & INSPECTION, INC.	0113
JENKINS AND HADDEN ENGINEERING COMPANY	0521	LA. FAYETTE REGIONAL PLANNING COMM.	0356
JENKINS CONSTRUCTION CCRP	0632	LA. FAYETTE, CITY OF	0352
JESSEN, D. K. & ASSOC	0106	LA. FOGGARD PH P. JURRY	0311
JIMMIE L. KEPPER CONST., INC	0364	LA. FOGGARD CONTRACTOR, INC.	0454
GFFEIRION & ASSOC INC	0605	LA. FOGGARD CO. INC.	0401
JOHN H. WOLF ASSOC.	0204	LA. GALT ELECTRIC CO.	0238
JOHNSON GEN PAINTING	0651	LA. GALT GRANITE CO.	0114
JOHNST. UPAGE & PIPER	0109	LA. GALT, GALT & G.	0115
JOHNSTON, AL CONSTR. COMPANY	0108	LA. GALT, P. GALT, JR.	0116
K.C.F. CORP.	0107	LA. GALT, INC.	0117
K.C.S. SR	0513	LAND E&P SERVICE	0357
KACUCH & JONES ELECTRIC CO., INC.	0110	LANDIS CONSTRUCTION	0364
KELLEHER NURSERY & LANDSCAPE, INC.	0593	LANDRY SILEX DR BR WKS	0229
KELLEN & ASSOC, INC.	0506	LANDRY, ROBERT J.	0292
KENNEDY SAW MILLS	0321	LANE AND CO INC	0329
KENTWOOD S & G CO	0439	LANSING INC.	0370
KERTIENS, J. C.	0407	LAZARUS LOGISTICS CO	0313
KEY CONSTRUCTORS INC	0239	LAZALEE PH P. JURRY	0353
KIEWIT, PETER & SONS	0620	LAZERT, RICHARD W.	0222
KING LBR. INDUSTRIES	0111	LEGACY STCS. & CO.	0119
KINGSTON CONST. CO	0247	LEGISLATOR ENT'N., INC.	0627
KLEINSETTER, T. W.	0362	LEWIS, LEWIN PARTNERSHIP	0626
KRAMER & MILLER	0112	LINDSEY BUSINESS	0711
KREBS, J. J. & SONS	0581	LINDSEY BUILDERS INC.	0755
L & A CONTRACTING CO	0272	LINDSEY, AMB. JURRY	0253
L & A PR CO.	0260	LINGEN, ALFRED	0224
L & NW RR CO.	0624	LIVE OAK S & G CO. INC	0119
L.D. DUGGAN, INC.	0197	LIVINGTON S & G	0120
LA CONC. PRODUCTS CO	0338	LOUISIANA DOCD, P. O. BOX 280, HAMMOND	0663
LA METAL CLVT CO.	0707	LOUISIANA TECH UNIVERSITY	0564
LA SCU, RR CO.	0125	LOCATE, INC.	0243
LA SOUTHERN CONST. CO.	0123	LOYAL SUBJECTS, INC.	0344
LA WILDLIFE & FISH	0266	LUKE CONSTRUCTION COMPANY, INCORPORATED	0656
LA. DCTD PURCHASE ORDER	0530	LUTESVILLE S & G CO.	0231
M.R. RR CO.	0399	N. P. JONESVILLE CONSTRUCTION COMPANY, INC	0637
	0692		0196

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MACOMB COUNT. CORP.	0670	NASHVILLE BR. CO.	C142
MADDEN CONTRACTING	0201	NATCH. PH. P. JURY	C359
MADEEN J. C.	0128	NATIONAL ADVERTISING	0143
MANIFEST GRAVEL CO	0383	NETHERTON COMPANY, INC.	0539
MANIFEST GRAVEL CO CLAUDE TERRELL	0406	NEW ORLEANS, CITY OF	C376
MARCELITO CO. INC & COMPUTER SYSTEMS ENG	0416	NEWSOME BROTHERS	C144
MASSMAN CONSTR. CO.	0509	NICHOLS ST. COLLEGE	C233
MAILAB - GENERAL SAMPLE	0129	NO 6 LIGER COST RR	C249
MCCAIN. J J & ASSOC	0669	NO 8 NE RR	C355
MCCULLOUGH, DAVE	0433	NOLAN CONTRACTING, INC., SLIDELL, LA.	C745
MCDONALD, J. W.	0126	NOLAN, NORMAN & NOLAN ARCHITECTS	0523
MCINNIS BROS. INC.	0223	NORTH LA. AND GULF R.R. CO.	C135
MCMICHAEL, J. L.	0350	O.S. JOHNSON DIRT CONTRACTOR	C232
MCRAE A DUANE	0332	OGDEN & HALL, C.E.	C199
MCRAY CONSTR. CO INC.	0420	OLIVER TREATED FROGS	C145
MEADOWS CONC. & GRAVEL CO. INC.	0127	OLIVER, A S LAB & HOW	C350
NEARICK CONSTR. CO.	0458	OSTERTUITS INDUSTR	C269
NETAIRIE ELEC. CO.	0262	ORLEAN'S ELECTRIC CONSTR. INC.	C504
MEYER, MEYERS, FARRAR & LACROIX	0342	ORLEAN'S PARISH	C197
MICA CORPORATION	0358	OJACHITA COUNCIL OF GOVERNMENTS	C557
MICHELLI, G T	0130	OUACHITA GRANITE CO.	C146
MID GULF CONSTR. INC.	0617	OUACHITA PH P. JURY	C347
MID-STATE MILLS. INC.	0131	OWEN & WHITE, INC.	C273
MID-STATE PAVING CO.	0122	PALMER & BAKER	C578
MID-STATE PSTR CONC	0133	PAMPER CORP & J. A. HARPER	C126
MID-STATE S/G	0134	PAMPER CORPORATION	0147
MILLER, F. & SONS	0135	PATRICK CONSTR. CO.	C148
MILLERVILLE CONSTR.	0218	PATTERSON & EDMONSON	C149
MINDEN CONSTR. CO.	0141	PATTERSON, A. H.	C150
MINORITY ENGINEERS OF LA. INC.	0288	PAUL N. FONTE, CT	C574
MISS. STATE HWY DEPT	0561	PAVEMENT-MARKINGS CO.	C151
MISS. VALLEY SILICA	0424	PAVLO, E. LICEL ENGR	0613
MOHR & ASSOC. INC.	0136	PEARSON CONST. CO., INC.	C238
MOJESKI & MASTERS	0507	PEARSON CONSTRUCTION COMPANY	C649
MONCLA CONSTR. CO., INC.	0193	PEE WEE S/G CO.	C336
MONOTOLE BLDRS., INC.	0493	PENS ELECTRIC CO	C341
MONOTOLE BUILDERS, INC.	0667	PEPPER & ASSOC INC & J J KREES & SONS IN	C358
MONROE S/G CO.	0590	PEPPER & ASSOCIATES	C234
MONSOMERY CONSTR CO	0139	PERCY J MATHERNE	C208
MONTGOWERY, J. T.	0372	PERKINS & JAMES ARCHITECTS, INC	C320
MORRSE & ASSOCIATES INSPECTION & TESTING CO.	0653	PERMA-LINE CCPG OF AMERICA	C579
MORGAN CITY, CITY OF	0315	PERREAU & PERRAULT	C259
MORRISON ENGR & SONS	0140	PERIN & ASSOCIATES	C338
MOSES, J. L.	0214	PETE ALFORD FENCING CONTRACTOR	C721
MULLER ELECTRIC CORP.	0447	PHELPS, SPITZ, AMERMAN, THOMAS, INC	C691
MUNSON, G K PRATT	0432	PICCIOLA & ASSO INC	C128
MUNSON, G. K. PRATT	0234	PICCO BROTHERS CONSTR. CO	C545
MURPHY DREHER	0448	PITTMAN CONSTRUCTION	C152
MURPHY ENGINEERING	0562	PITT'S-DESTORNES STL.	C153
MURPHY OIL COMPANY	0228	PLAISANCE, J. WAYNE	C255
N. O. TERMINAL CO.	0361	PLAQ. PH. HWY. ENGR & CONSTR AGENCY	C233
N.O. PUBLIC SERVICE	0378	PLAQUEMINE. CITY OF	C237
N-Y ASSOC.. INC.	0563	PLATER, RICHARD C.	0283

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POHLMAN & ALLEGANS	0478	SEWERAGE & WATER BOARD OF NEW ORLEANS	C-59
PORT CLINTON CONSTR. CO.	0155	SHARP ELECTRIC, INC.	C-59
POTASHNIK, R. B.	0154	SHIEL LINE FLOORING & INSPECTION, INC.	C-58
PRairie CONSTR. CO.	0209	SHILOH CONTRACTORS, INC.	C-58
PRE-STR. CONC PRODS	0156	SHOCKLEY SHELLS YARD	C-49
PRESOTTI, FEDALLET	0221	SHERVE AREA COUNCIL OF LOCAL GOVERNMENT	C-25
PRESSURE COOP. PROCES	0263	SICKEY INC., GRAVEL	C-70
PRIMED UNIVERSAL CORP.	0614	SIGMA SERVICE COOP.	C-73
PROFESSIONAL CONST. SERVICE, INC.	0720	SIGNS, OIL & GAS LA.	C-12
PURKEY'S NURSERY & LANDSCAPE CO., INC.	0550	SIVS, ACBIE &	C-35
R. C. ASPHALT CO.	0710	SIXTY EASY & C. TEEBELL	C-31
R. J. HANSEN ASSOCIATES, INC.	0161	SIZLING EGGS, INC.	C-26
R. J. LICHSTEIN CO., INC.	0577	SITH L. SAKRE & SON,	C-14
R. L. REIL AND ASSOC., C.E.	0686	SHADEN, G. W. CONSTR.	C-61
R. S. VAUGHAN COFFING CO.	0445	SDU RAILWAY SYSTEM	C-18
RACCLIFF WATERIAUS	0697	SDU, PAVERS & AGGREGATE	C-18
RACER & ASSOCIATES	0159	SCOTT CENTRAL REED	C-12
RAGUSA EGGS INC	0254	SCOTT EGGS GRAVEL CO.	C-12
RAPIDES AREA PLANNING COMM.	0396	SCOTT RAILBEDS GRAVEL	C-18
RAPIDES GRAVEL CO.	0558	SCOTTUREZ GRAVEL	C-17
RAPIDES PH P. JURY	0157	SOUTHERN BRIDGE CO.	C-15
RASBERRY & CLARKE	0355	SOUTHERN EXCAVATION CO.,	C-19
RAY S & G CO.	0158	SOUTHERN EXCAVATION	C-31
RAYMOND INTERNATIONAL	0436	SOUTHERN NATIONAL SAW	C-16
RAYNER & MORENZ EASTON STEWART ASSO	0160	SOUTHERN STATE CONTRACTORS, INC.	C-17
REBEL S. G CO., INC.	0417	SOUTHERN STATE CONSTR. CO.	C-17
REC R. PH. P. JURY	0277	SOUTHERN STATE CONSTR.	C-17
REQ PLAN COMM JEFF ORL ST BER ST TAM PAR	0240	ST. CATHERINE GRAVEL	C-12
REYNOLDS & WILLIAMS	0559	ST. HELENA CO.	C-12
RICHARD P. BROWNE ASSOCIATES	0162	ST. MARY PARTITION UTILITIES	C-18
RICHARDSON, J. T. CO.	0588	ST. MARY PH. EXCAVATION JURY	C-18
RICKER & GARRETT	0163	ST. MARY WATER SYSTEMS	C-12
RITTER, L. D., INC.	0165	ST. GEORGE SOUTHWESTERN RR CO.	C-18
ROBERT H. GATTI	0166	ST. JAMES GRAVEL CO.	C-18
ROBICHAUX, D. J. JR.	0739	STATE CABLES OF ST. HELE	C-18
ROGERS SAND & GRAVEL	0437	STEINKE, SCHROEDER, SMALLER & ASSOCIATES	C-12
ROGERS, J. J. GRAVEL	0164	STEPHEN LANGERT, CONTRACTOR	C-17
RONALD AZARS CONTRACTOR, INC.	0167	ST. LOUIS SAW MILLS	C-18
ROY AUCOIN CONTRACTORS, INC. & LUKE CONS	0427	ST. LOUIS SAW MILLS	C-18
ROY JORGENSEN	0716	STOKE STAINLESS, U.S.	C-21
RUSHING PASS & CO.	0560	SUPERIOR MANUFACTURING	C-21
S.W.K. CONSTR. CO.	0405	SURFACE & PARCEL	C-19
S.P. TRANSPORTATION	0183	SURFACE & PARCEL CO.	C-19
S.P.R.R.	0328	SW LA ELEC. MEMBERSHIP.	C-21
SACIIE ELEC INC	0202	SWITZER, ALBERT	C-18
SAM J. DUPREE	0413	SYLVESTER'S READY MIX	C-20
SAMPLE & JENKINS	0529	T & P RR	C-20
SAND PRODUCTS CO	0367	T. & J. SERVICES, INC.	C-20
SANTEE CONTRACTING CO	0163	T. BAKER SMITH & SON AND MODJESKI & MAST	C-20
SELLERS BARNES ASSO & LUBROC & SELLERS	0548	TALBOT, COUGLAS S.	C-34
SELLERS, SCHEMNAIDER	0431	TALLEY, J. B.	C-34
SERVITRON, INC.	0265	TECH ELECTRIC COOP.	C-91
	0505	TELLEPSSEN CONSTR. CO.	C-12
		TENNESSEE ROAD SUPPLIES, INC., KNOXVILLE, TENNESSEE	C-12

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TERREBONNE PARISH	0623
TEX & P-N-O PAC RR	0393
TEXAS & PACIFIC RAILWAY CO	0806
THE HAMMET CO., INC.	0685
THE HUDSON MAINT. CORP.	0666
THE HUDSON MAINTENANCE CORPORATION	0634
THERIOT, ALEX JR.	0267
THOMAS CONTRACTORS, MANSFIELD, LA.	0671
THOMAS SAND & GRAVEL	0713
THOMAS SAND & GRAVEL CO. INC.	0522
THOMAS SAND & GRAVEL NO. 1	0714
THOMPSON & STIRLING	0584
THOMPSON, HAROLD L.	0324
TIDELANDS EQUIPMENT	0359
TOBIAR, INC.	0660
TOOMER ELECT. CO. INC & BOB FINLEY INC.	0499
TOOMER ELECTRICAL CO	0286
TRANSCONTINENTAL GAS PIPELINE CORP.	0327
TREAS. U. S., BRANCH OF BUDGET & FINANCE	0264
TRI-CITY CONST CO	0421
TRINITY CONC PRODUCT	0241
TRIO BUILDING CO	0185
TRIPLE "H" CGRP	0618
TULANE UNIVERSITY	0585
TYLER, R. B. COMPANY	0186
U.S. DEPT OF INTERIOR GEOLOGICAL SURVEY	0459
U.S. STEEL CORP.	0188
UNION PH P. JURY	0403
UNITED BRIDGE CO., INC.	0549
UNITED CINCO, INC.	0227
UNITED CONTRACTORS CORPORATION	0466
UNITED GAS PIPELINE COMPANY	0518
UNIVERSAL ENGRS.	0373
URBAN TRANSPORTATION & PLANNING ASSOC. I	0484
URS/FOREST AND COTTON, INC	0586
US ENGRS NO DISTRICT	0187
USS ENGRS & CONSULT.	0306
VALLEY SAND & GRAVEL	0137
VANCOUVER PLYWOOD CO., INC.	0468
VERMILION SHELL COMPANY, INC.	0519
VERNON PH P. JURY	0349
VI CON, INC.	0544
VIDALIA DOCK STORAGE	0256
VULKERT ASSO & DEMOPULOS & FERGUSON	0422
VULKERT, DAVID	0209
VTN LOUISIANA, INC	0565
W D BERGERON CONST CO	0524
W. E. BLAIN & SONS, INC.	0657
W. E. BLAIN & SONS, INC.	0662
W. E. MC DONALD AND SON, INC.	0687
W. FELIC. PH P. JURY	0299
W. J. RUNYON AND SON, INC.	0512
WALDEMAR, S. NELSON	0339
WALKER & WELLS CONTRACTORS, INC.	0701

LIST OF MATT SYSTEM CONTRACTORS

NAME	CODE
WALL SHIPYARD	0310
WALLACE C. DRENNAR, INC.	0450
WAPCO CONSTRUCTORS, INC.	0474
WASKEY BRIDGES, INC.	0301
WATERWAYS EXPERIMENT STATION	0535
WEBSTER PH P. JURY	0357
WEILL CONST. CO., INC.	0502
WHITE, HOWARD C.	0275
WILBUR SMITH & ASSOC.	0483
WILLIAM R. BAKER ASSOCIATES	0587
WILLIAMS BROTHERS CONST CO INC	0541
WILLIAMS-MCWILLIAMS	0190
WILSON, GAINES P.	0189
WINFORD COMPANY	0191
WINN PH P. JURY	0346
WOODLAND, LEON	0219
WTR WKS DIST 1 HOUMA	0334

N=719

7. LIST OF MATERIAL SOURCES AND SUPPLIERS

LIST OF ALL QPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

LOCATION=DISTRICT 02

NAME	CODE
BOH BROS.	GOLDEN MEADOWS, LA.
BOH BROS.	LULING, LA.
BOH BROS. (BULLARD RD.)	MANCHAC, LA.
BOH BROS.	HOJMA, LOUISIANA
BROWN & ROOT (TLC-II)	MANCHAC, LA.
BROWN & ROOT (LB-18)	MANCHAC, LA.
CARLO DITTA	HARVEY, LA.
CONSOLIDATED MATERIALS	BELLE CHASE, LA.
CONSOLIDATED MATERIALS	NEW ORLEANS, LA.
F & M CONCRETE	LAPLACE, LA.
H CONSTRUCTION SUPPLIES	GRAMERCY, LA.
J. B. TALLEY	HOJMA, LA.
JIMCO	METAIRIE, LA.
LOUISIANA INDUSTRIES	KENNER, LA.
LOUISIANA INDUSTRIES	LULING, LA.
LOUISIANA INDUSTRIES	NEW ORLEANS, LA.
LOUISIANA INDUSTRIES	TAFT, LA.
M & H BUILDING SUPPLIES	VACHERIE, LA.
MARINE CONC.STRUCT. (BELDEN)	METAIRIE, LA.
NAIRN CONCRETE	NAIRN, LA.
QUALITY READY MIX	HOJMA, LA.
STEVENS READY MIX	LULING, LA.
T. L. JAMES	DESTREHAN, LA.
T. L. JAMES	HOJMA, LA.
TERREBONNE LMBR. & SUPPLY	HOJMA, LA.
KEY CONSTRUCTION	RACELAND, LA.
GATOR READY MIX	LAROSE, LA.
HENRY INDUSTRIES	HOJMA, LA.
LOUISIANA INDUSTRIES	LAPLACE, LOUISIANA
KING KONGCRETE	HOJMA, LOUISIANA
NAIRN CONCRETE PRODUCTS	NAIRN, LOUISIANA
SOUTH LAFOURCHE READY MIX	GALIANO, LOUISIANA
BOH BROS CONSTRUCTION CO.	BELLE CHASSE, LA. CONCRETE
BARRIERE CONST. (HARVEY CANAL)	HARVEY, LA.
BARRIERE CONST. (IND. CANAL)	NEW ORLEANS, LA.
BOH BROS. CONST. (FRANCE RD.)	NEW ORLEANS, LA.
LEBLANC BROS.	SCHRIEVER, LA.
T. L. JAMES	KENNER, LA.
T. L. JAMES	PARADIS, LA.
VICON, INC.	KENNER, LA.

N=40

LIST OF ALL OPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

----- LOCATION=DISTRICT 03 -----

NAME		CODE
ANGELLE CONCRETE	CROWLEY, LA.	C301
BALAIN READY MIX		C302
BARRY CONCRETE	LAFAYETTE, LA.	C303
BOSTIC CONCRETE CO.	LAFAYETTE, LA.	C304
CALLAHAN CONCRETE	MORCAN CITY, LA.	C305
CHARCHE CONCRETE PLANT	CHURCH POINT, LA.	C306
CHECKVATE CONCRETE	RAYNE, LA.	C307
CONCRETE SERVICE	DELOUSAS, LA.	C308
DUBOIS CONCRETE CO.	ABBEVILLE, LA.	C309
D. FRUGE & SONS	EUNICE, LA.	C310
FONSEEN, BLACKIE CONCRETE	MORCAN CITY, LA.	C311
JANET & TAYLOR	FORT BARRE, LA.	C312
LAFAYETTE CONCRETE		C313
WILLIAMS BROS. PLANT	BERWICK, LA.	C314
ROY YOUNG	ABBEVILLE, LA.	C315
LOUISIANA PAVING CO., INC.	BERVENTAU, LA. X	C316
BOSTIC CONCRETE CO. #2	NEW IBERIA, LA.	C317
J. B. TALLEY	PATTERSON, LA. X	C318
J. B. TALLEY	ST. MARTINVILLE, LOUISIANA	C319
BARBER BROS.	LAFAYETTE, LA.	H301
FENET INC.	EUNICE, LA.	H302
H & S CONST. CO.	LAFAYETTE, LA.	H303
LOUISIANA PAVING	BALDWIN, LA.	H304
PELTIER BROS.	ABBEVILLE, LA.	H305
PELTIER BROS.	LAFAYETTE, LA.	H306
PELTIER BROS.	CLIVIER, LA.	H307

N=26

----- LOCATION=DISTRICT 04 -----

NAME		CODE
BRASWELL SAND & GRAVEL	DIXIE INN	SAND & GRAVEL
BRASWELL SAND & GRAVEL	SIBLEY	SAND & GRAVEL
GIFFORD-HILL & CO.	SIBLEY	SAND & GRAVEL
MADDEN PIT	MINDEN	SAND
TRI-STATE	SIBLEY	SAND & GRAVEL
SOUTHERN EXCAVATION	SIBLEY	SAND
ALLEN BROS.	JUNCTION CITY, ARK.	C401
ARK-LA	SPRINGHILL, LA.	C402
BRASWELL SAND & GRAVEL	BOSNIER CITY, LA.	C403
BRASWELL SAND & GRAVEL	SHREVEPORT, LA.	C404
BUILDERS SUPPLY CO.	SHREVEPORT, LA.	C405
C & S REDI-MIX	SPRINGHILL, LA.	C406
CONCRETE PROD. OF NORTH CADDO	VIVIAN, LA.	C407
COUSHATTA CONCRETE CO.	COUSHATTA, LA.	C408
EXPRESS READY MIX	SHREVEPORT, LA. LINWOOD AVE	C409
GIFFORD-HILL READY MIX	S. SHREVEPORT, LA.	C410
GIFFORD-HILL READY MIX	SHREVEPORT, LA.	C411

LIST OF ALL QPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

----- LOCATION=DISTRICT 04 -----

NAME		CODE
LOUISIANA IND.	BOSSIER CITY, LA.	C412
MINDEN CONCRETE PLANT	MINDEN, LA.	C413
VALENTINE READY MIX	MANSFIELD, LA.	C414
C&S REDI-MIX HOMER, LA	X	C415
ALLEY BROTHERS, INC	HOMER, LOUISIANA	X
HAYNESVILLE CONC. CO. HAYNSEVILLE, LA.	X	C417
CENTURY REDI MIX	GIBSLAND, LOUISIANA	X
EXPRESS READY MIX #2	S'PORT LA BROOKS RDX	C418
HUDNALL & EARNEST, INC.	HOMER, LA.	C419
JAMES WINFORD	CONCRETE	C420
MADDEN CONSTRUCTION CO.	BOSSIER CITY, LA.	H401
ROY COOK & SONS	MINDEN, LA.	H402
SOUTHERN EXCAVATION	SHREVEPORT, LA.	H403
MADDEN CONSTRUCTION	BOSSIER CITY, LA.	H404
ASPHALT MATERIALS INC.	READHEIMER, LA	H405
	LEWISVILLE	ARKANSAS
		H406

N=32

----- LOCATION=DISTRICT 05 -----

NAME		CODE
CENTURY READY MIX	MONROE	SAND
LOUISIANA INDUSTRIES	PERRYVILLE	SAND & GRAVEL
MEADOWS CONCRETE & GRAVEL	LAKE PROVIDENCE	SAND & GRAVEL
MONROE SAND & GRAVEL	PERPYVILLE	SAND & GRAVEL
MONROE SAND & GRAVEL	WEST MONROE	SAND & GRAVEL
RUNYON SAND & GRAVEL	MOULD	SAND & GRAVEL
JONES PIT	LUNA	GRAVEL
MATHIS PIT	W. MONROE	SAND & GRAVEL
CENTURY READY MIX	MONACE, LA., NO.1	C501
CENTURY READY MIX	RUSTON, LA.	C502
CENTURY READY MIX, PORT.	RUSTON, LA.	C503
CENTURY READY MIX	WEST MONROE	C504
JONESBORO CONCRETE CO	MONACE, LA.	C505
LOUISIANA IND.	DELHI, LA.	C506
MONRAY	RAYVILLE, LA.	C507
MONRAY	BASTROP	C508
MONROE CONCRETE CO.	FARNERVILLE, LA.	C509
MONROE CONCRETE CO.	MONACE, LA.	C510
MONROE CONCRETE CO.	RUSTON, LA.	C511
MONROE CONCRETE CO.	WEST MONROE, LA.	C512
MONROE CONCRETE CO.	DAKGROVE, LA.	C513
TRIPLE E CONC.	TALLULAH, LA.	C514
VICO CONCRETE	VICKSBURG, MISS.	C515
VICO CONCRETE	MONACE, LA.	C516
ASPHALT MATERIALS	PERRYVILLE, LA.	H501
LOUISIANA IND.	LAKE PROVIDENCE, LA.	H502
L. D. RITTER	SIMSBORO, LA.	H503
SOUTHERN EXCAVATION		H504

LIST OF ALL QPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

----- LOCATION:DISTRICT 05 -----

NAME		CODE
W. J. RUNYON D & J CONST CO.	MOUND, LA. WEST MONROE, LA	H505 HS06
HOT MIX PLANT		
N=30		

----- LOCATION:DISTRICT 07 -----

NAME		CODE
GIFFORD-HILL & CO.	INDIAN VILLAGE	SAND & GRAVEL
TRINITY	INDIAN VILLAGE	SAND
TRINITY	LONGVILLE	SAND & GRAVEL
CONCRETE PIPE PRODUCTS	LAKE CHARLES, LA.	C701
DEQUINCY REDI MIX	DEQUINCY, LA.	C702
DEQUINCY REDI MIX	WEST LAKE, LA.	C703
DOISE CONCRETE	KINDER, LA.	C704
DOISE CONCRETE	OAKDALE, LA.	C705
DUNHAM-PRICE, INC. #1	WEST LAKE, LA.	C706
DUNHAM-PRICE, INC. #2	LAKE CHARLES, LA.	C707
DUNHAM-PRICE, INC. #3	LAKE CHARLES, LA.	C708
EVANS CONCRETE	JENNINGS, LA.	C709
SEWELL CONCRETE	DERIDDER, LA.	C710
VORISE CONCRETE	OAKDALE, LA.	C711
DYSON REDI-MIX, INC.	CAMERON, LA.	X
BUNKIE READY MIX	VILLE PLATTE, LA	C713
LOUISIANA PAVING, KINDER PLANT	KINDER, LOUISIANA	X
BI-CO PAVERS, INC.	LAKE CHARLES, LA.	C715
JAMES CORP.	LONGVILLE, LA.	H701
RE. HEIDT	INDIAN VILLAGE, LA.	H702
RE. HEIDT	WEST LAKE, LA.	H703
JAMES CORP., PLANT NO 2	LONGVILLE, LA	X
		H704

N=22

----- LOCATION:DISTRICT 08 -----

NAME		CODE
ARNOLD'S GRAVEL	MERRYVILLE	SAND & GRAVEL
BARTLETT PIT(JAMES CORP.)	FOREST HILL	SAND & GRAVEL
GIFFORD-HILL & CO.	GLENDORA	SAND & GRAVEL
GRAVEL PRODUCTS(JOSHLIN PIT#2)	MERRYVILLE	SAND & GRAVEL
LIBUSE GRAVEL CO.	LIBUSE	SAND & GRAVEL
LOUISIANA INDUSTRIES	FISHVILLE	SAND & GRAVEL
LOUISIANA INDUSTRIES(DYSON PIT)	PROSPECT	GRAVEL
LOUISIANA INDUSTRIES	PARADISE	SAND
LUTESVILLE SAND & GRAVEL	BENTLEY-WALLACE RI.	SAND & GRAVEL
LUTESVILLE SAND & GRAVEL	COLFAX	SAND & GRAVEL
L. H. BOSSIER	GARDNER	SAND & GRAVEL
		A801
		A802
		A803
		A804
		A805
		A806
		A807
		A808
		A809
		A810
		A811

LIST OF ALL QPL (#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

LOCATION=DISTRICT 08

NAME	CODE
L. H. BOSSIER SEWELL'S PIT WESTERN GRAVEL CO.	A812
D. PRUSS SAND & GRAVEL CO.	A813
ACME CEMENT PRODUCTS CO., INC.	A814
ALEXANDRIA CONCRETE ALEXANDRIA CONCRETE LEESVILLE, LA.	A815
ALLEN BEOS, CONSTRUCTION CO.	C801
DIXIE READY-MIX INC.	C802
LEESVILLE CONCRETE LOUISIANA IND. (PLANT #1)	C803
LOUISIANA IND. (PLANT #5)	C804
LUTESVILLE SAND & GRAVEL CO.	C805
MARKSVILLE READY-MIX	C806
MID-STATE PRESTRESSED CONCRETE ALEXANDRIA, LA.	C807
MCGREAUVILLE CONCRETE WORKS	C808
VALENTINE READY-MIX	C809
A & A CONCRETE PRODUCTS INC.	C810
LOUISIANA IND. (PLANT NO. 4)	C811
H. C. BARNHILL PLANT	C812
K. & M. CONSTRUCTION PLANT	C813
L. H. BOSSIER PLANT	C814
L. H. BOSSIER PLANT	C815
LOUISIANA IND. PLANT	H801
LUTESVILLE SAND & GRAVEL PLANT COLFAX, LA.	H802
LOUISIANA PAVING CO. PLANT	H803
LUTESVILLE SAND & GRAVEL PLANT COLFAX, LA.	H804
LOUISIANA PAVING CO. PLANT	H805
LUTESVILLE SAND & GRAVEL PLANT COLFAX, LA.	H806
	H807

N=37

LOCATION=DISTRICT 58

NAME	CODE
AMYX SAND & GRAVEL	A901
CHISIUM SAND & GRAVEL	A902
SICILY ISLAND SAND & GRAVEL	A903
AMYX SAND & GRAVEL	C901
AMYX SAND & GRAVEL	C902
HATFIELD HARDWARE & LUMBER CO.	C903
HEAD'S READY MIX	C904
MACK & ANDERS CULVERTS	C905
MACK & ANDERS CULVERTS	C906
LOUISIANA PAVING INC.	H901
LOUISIANA PAVING INC.	H902
L.D. RITTER INC.	H903
T. L. JAMES INC.	H904

N=13

LIST OF ALL QPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

----- LOCATION-DISTRICT 61 -----

NAME			CODE
ACE SAND & GRAVEL	BAYWOOD	SAND & GRAVEL	A601
ACME GRAVEL PRODUCTS	BAYWOOD	SAND & GRAVEL	A602
ALF'S GRAVEL	BLUFF CREEK	GRAVEL	A603
B & B GRAVEL CO.	BLUFF CREEK	SAND & GRAVEL	A604
DIXIE SAND & GRAVEL	STARHILL	SAND & GRAVEL	A605
LAMBERT SAND & GRAVEL	ST. FRANCISVILLE	SAND & GRAVEL	A606
RED STICK NO. 1	BAYWOOD	SAND & GRAVEL	A607
RED STICK NO. 2	BAYWOOD	SAND & GRAVEL	A608
RESOURCE MATERIAL CO.	BLUFF CREEK	SAND & GRAVEL	A609
THOMAS SAND & GRAVEL NO. 1	BAYWOOD	SAND & GRAVEL	A610
THOMAS SAND & GRAVEL NO. 2	BAYWOOD	SAND & GRAVEL	A611
TIFFIN SAND & GRAVEL	BLUFF CREEK	SAND & GRAVEL	A612
PLAQUEMINES SAND & GRAVEL	BLUFF CREEK	SAND & GRAVEL	A613
BIG RIVER INDUSTRIES, INC.	ERWINVILLE	EXPANDED CLAY LT.WT	A614
LOUISIANA LIMESTONE AGGREGATES	BATON ROUGE	STONE (LIMESTONE)	A615
ALTEX READY MIX	BATON ROUGE, LA.	C601	
CLEGG CONCRETE	BATON ROUGE, LA.	C602	
DOLESE	BATON ROUGE, LA.	C603	
ELRAY KOCKE SERVICE INC.	DONALDSONVILLE, LA.	C604	
FELICIANA REDI-MIX	JACKSON, LA.	C605	
GONZALES CONCRETE WORKS	CONZALES, LA.	C606	
LA. CONC. PRODUCTS	BATON ROUGE, LA.	C607	
LAMBERT REDI-MIX	ST. FRANCISVILLE, LA	C608	
SORRENTO LUMBER CO.	SORRENTO, LA.	C609	
STEVENS	BATON ROUGE, LA.	C610	
ALEXANDRIA CONSTRUCTION CO.	LETTSWORTH, LA.	H601	
BARBER BROS.	BATON ROUGE, LA.	H602	
W. E. BLAIN & SONS	BURNSIDE, LA.	H603	
DUNHAM	BATON ROUGE, LA.	H604	
LEBLANC BROS.	ST. GABRIEL, LA.	H605	
STEVENS ASPHALT	BATON ROUGE, LA.	H606	

N=31

----- LOCATION-DISTRICT 62 -----

NAME			CODE
A-1 SAND & GRAVEL CO.	MAGNOLIA BEACH	SAND	A101
ADDISON'S PIT	WATSON	SAND & GRAVEL	A102
ALESSI PIT	INDEPENDENCE	S & G (INACTIVE)	A103
AMITE SAND & GRAVEL	DENNIS MILLS	SAND & GRAVEL	A104
LOUISIANA PAVING	SHILOH	SAND & GRAVEL	A105
B. B. DEVELOPMENT	PEARL RIVER	SAND & GRAVEL	A106
A & R AGG., INC. (FORMERLY BDT)	SUN	SAND & GRAVEL	A107
BOGALUSA MATERIALS(C.Z. PIT)	ANGIE	SAND & GRAVEL	A108
BOGALUSA MATERIALS(LAKEVIEW)	BOCALUSA	SAND & GRAVEL	A109
BOGALUSA MATERIALS(PIGOTT)	BOGALUSA	SAND & GRAVEL	A110
MCKAY SAND & GRAVEL	INDEPENDENCE	SAND & GRAVEL	A111
OWENS SAND & GRAVEL	INDEPENDENCE	SAND & GRAVEL	A112

LIST OF ALL OPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

-- LOCATION=DISTRICT 62 --

NAME		CODE
CORE CONTRACTING	HICKORY	SAND & GRAVEL A114
CORE CONTRACTING	ISABEL	GRAVEL A115
W. R. CORE(PIERCE)	SUN	SAND (INACTIVE) A116
CROW SAND & GRAVEL	ENON	GRAVEL A117
CROW SAND & GRAVEL	ISABEL	S & G (INACTIVE) A118
DIAL SAND & GRAVEL	ISABEL	SAND & GRAVEL A119
LUKE DUNAWAY GRAVEL	CLIFTON	SAND & GRAVEL A120
FRAZIER SAND & GRAVEL	DARLINGTON	SAND & GRAVEL A121
GIFFORD-HILL & CO.	ARCOLA	SAND & GRAVEL A122
GIFFORD-HILL & CO.	FLUKER-TANGIPAHOA	SAND & GRAVEL A123
PEARL RIVER SAND & GRAVEL	PEARL RIVER	SAND & GRAVEL A124
HORNISBY SAND & GRAVEL	GRANGEVILLE	SAND & GRAVEL A125
HOWARD CONSTRUCTION	INDEPENDENCE	S & G (INACTIVE) A126
I.C. SAND & GRAVEL	TYNES ISLAND	SAND & GRAVEL A127
J&J SAND & GRAVEL	VARNADO	SAND & GRAVEL A128
FRANK JONES ENTERPRISE, INC.	VARNADO	S & G (INACTIVE) A129
LA 37 SAND & GRAVEL	ROSELAND	SAND & GRAVEL A131
LOUISIANA INDUSTRIES	ISABEL	SAND & GRAVEL A132
LOUISIANA SAND & GRAVEL	DENNIS MILLS	SAND & GRAVEL A133
MAGNOLIA SAND & GRAVEL	GRANGEVILLE	SAND & GRAVEL A134
MEARS SAND & GRAVEL	DENNIS MILLS	SAND & GRAVEL A135
MISSISSIPPI VALLEY SILICA CO.	SUN	S & G (INACTIVE) A136
MURPHY MATERIALS	PEARL RIVER	SAND & GRAVEL A137
P & D SAND & GRAVEL	WATSON	SAND & GRAVEL A138
POWERS SAND & GRAVEL	GRANGEVILLE	SAND & GRAVEL A139
REBEL SAND & GRAVEL	DENNIS MILLS	SAND & GRAVEL A140
JESSE ROGERS GRAVEL PRODUCTS	ARCOLA	SAND & GRAVEL A141
SMALL GRAVEL(PIERCE & LEBLANC)	GRANGEVILLE	SAND & GRAVEL A142
SMITH SAND & GRAVEL PIT NO. 2	MT. HERMAN	SAND & GRAVEL A143
SPELL SAND & GRAVEL	FRANKLINTON	SAND & GRAVEL A144
STANDARD GRAVEL	CLIFTON	SAND & GRAVEL A145
STANDARD GRAVEL	PEARL RIVER	SAND & GRAVEL A146
STRAIN SAND & GRAVEL	WARNERTON	GRAVEL (INACTIVE) A147
3D SAND & GRAVEL	ANGIE	S & G (INACTIVE) A149
VICKS SAND & GRAVEL	INDEPENDENCE	SAND & GRAVEL A150
STANDARD MATERIALS, INC	ENON	SAND & GRAVEL A151
LA. PAVING	HONEY ISLAND, LA.	SAND & GRAVEL A152
SANDY HOOK GRAVEL CO.	ANGIE, LA.	A153
B. F. DIAMOND CONST. CO	MANCHAC, LA.	C101
B & G CONCRETE	KENTWOOD, LA.	C102
BROWN & ROOT	MANCHAC, LA.	C103
BROWN & ROOT	MANCHAC, LA.	C104
COAST MATERIALS CO.	BILOXI, MISS.	C105
ENDICON	MANCHAC, LA.	C106
FELICIANA READY MIX	MCMANUS, LA.	C107
GULF COAST PRESSTRESSED	PASS CHRISTIAN, MISS	C108
GULF COAST PRESSTRESSED	PASS CHRISTIAN, MISS	C109
LAKEVIEW CONCRETE	BOGALUSA, LA.	C110
MARINE CONC. STRUCTURES	PEARLINGTON, MISS.	C111
MISSISSIPPI MATERIALS	JACKSON, MISS.	C112
PRESIRESSED CONC. PROD.	MANDEVILLE, LA.	C113

LIST OF ALL QPL(e2) AGGREGATE SOURCES AND CONC & HGT/MIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

LOCATION DISTRICT 62

NAME	CODE
STANDARD MATERIALS	C114
STANDARD MATERIALS	C115
TATE READY MIX	C116
TEGER REACTOR MIX	C117
TRANSITION CONCRETE INC., CONSTRUCTION CO.	C118
TRANSITION CONCRETE PROJECTS CO.; FRANKLIN, LA.	X
HAMMOND READY MIX HAMMOND, LA. X	X
ATLAS CONSTRUCTION	X
ATLAS CONSTRUCTION	X
ALEXANDRIA CONSTRUCTION CO.	X
VICON	X
LA. PAVING CO., AMITE, LA.	X

N=75

LOCATION=DIST-OF-STATE

NAME	CODE
AMERICAN SAND & GRAVEL	AC01
ANCIENT RIVERS MINING CO.	AC02
ATLAS BIT (MIKE'S ISLAND)	AC03
BRASHELL INDUSTRIES	AC04
ROY COOK & SONS	AC05
DELIGHT GRAVEL CO.	AC06
FAIRCHILD PIT	AC07
GARNER PIT	AC08
GIFFORD-HILL & CO., HOT PLANT	AC09
GREEN BROS. SAND & GRAVEL	AC10
HORTON & HORTON	AC11
IDEAL BASIC INDUSTRIES-ARENAL	AC12
L&H SAND & GRAVEL	AC13
LONE STAR IND-BUE ROAN BEND	AC14
LONE STAR IND.	AC15
MADDEN CONTRACTING CO.	AC16
PERKINSTON SAND & GRAVEL	AC17
PREScott SAND & GRAVEL	AC18
RUNYON PIT	AC19
ST. CATHERINE GRAVEL CO.	AC20
ST. FRANCIS MATERIALS	AC21
SAMCO	AC22
SOUTHERN EXCAVATION	AC23
TRAXLER SAND & GRAVEL	AC24
TRIANGLE GRAVEL CO.	AC25
JOHNNY WALTER GRAVEL CO.	AC26
ARBY INDUSTRIAL MINERALS CORP.	AC27
ARBY INDUSTRIAL MINERALS CORP.	AC28
GIFFORD-HILL & CO., INC.	AC29
GIFFORD-HILL & CO., INC.	AC30
ALLAMORE, TEXAS	AC31
STONE(RHYOLITE)	AC32

LIST OF ALL QPL(#2) AGGREGATE SOURCES AND CONC & HOTMIX PRODUCERS

19:32 MONDAY, MAY 14, 1979

LOCATION=CUT-OF-STATE

NAME		CODE
GRANITE MOUNTAIN QUARRIES	SWEET HOME ARK.	A033
MCDONOUGH BROTHERS, INC.	STONE(SYENITE)	
MURRAY QUARRY	SAN ANTONIO, TEXAS STONE(LIMESTONE)	A035
REED CRUSHED STONE CO.	ARKADELPHIA, ARK. STONE(SANDSTONE)	A036
SOUTHERN STONE CO., INC.	GILBERTSVILLE, KY. STONE(LIMESTONE)	A037
SOUTHERN STONE CO., INC.	BIRMINGHAM, ALA. SLAG(GODWIN, TENN.)	A038
THREE RIVERS ROCK CO.	BIRMINGHAM, ALA. SLAG(SIGLO, TENN.)	A039
VULCAN MATERIALS CO.	SMITHLAND, KY. STONE(LIMESTONE)	A040
VULCAN MATERIALS CO.	BIRMINGHAM, ALA. SLAG(ENSLEY PLANT)	A041
WEST LAKE QUARRY & MATERIALS	CALERA, ALA. STONE(LIMESTONE)	A042
WEST LAKE QUARRY & MATERIALS	ILLMO, MISSOURI STONE,NEELY'S LANDING	A043
ARKADELPHIA SAND & GRAVEL	ILLMO, MISSOURI STONE(GRAY'S POINT)	A044
SANDY HOOK GRAVEL CO.	ARKADELPHIA, ARK. GRAVEL	A045
E. L. SMITH SAND & GRAVEL	SANDY HOOK, MISS. SAND & GRAVEL	A046
H.M.B. CONSTRUCTION CO.	HAMPTON, ARK. GRAVEL	A048
STANDARD GRAVEL CO.	DEQUEEN, ARK. GRAVEL	A049
	HARRELL, ARK. GRAVEL	A050

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LIST OF QPL MATERIAL SOURCES

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QPL_NO=01

MAT_NAME=ADMIXTURES FOR PTC

NAME	CODE
CONCRETE CONTROLS INC.	NEW ORLEANS AUSTIN, TX.
CONCRETE CONTROLS INC.	AIR WRSR 0101
CONSTRUCTION CHEMICALS	AUSTIN, TX.
CONSTRUCTION CHEMICALS	WRNR 0109
ECCOLOID CHEMICAL CO.	AUSTIN, TX.
ECCOLOID CHEMICAL CO.	WRSR 0103
GEFFED-CHILL & CO.	CLEVELAND, OHIO
GEFFED-CHILL & CO.	AIR WRSR 0120
HUNT PROCESS CORP.	CLEVELAND, OHIO
HUNT PROCESS CORP.	AIR WRSR 0111
HUNT PROCESS CORP.	DALLAS, TX.
HUNT PROCESS CORP.	AIR WRSR 0121
MASTER BUILDERS	DALLAS, TX.
MASTER BUILDERS	WRSR 0104
MASTER BUILDERS	DALLAS, TX.
MASTER BUILDERS	AIR WRSR 0119
PROTEX INDUSTRIES INC.	RIDGELAND, MISS.
PROTEX INDUSTRIES INC.	AIR WRSR 0110
PROTEX INDUSTRIES INC.	RIDGELAND, MISS.
SIKA CHEMICAL CORP.	CLEVELAND, OHIO
SIKA CHEMICAL CORP.	AIR WRSR 0102
SIKA CHEMICAL CORP.	CLEVELAND, OHIO
SIKA CHEMICAL CORP.	AIR WRSR 0123
SIKA CHEMICAL CORP.	CLEVELAND, OHIO
SIKA CHEMICAL CORP.	AIR WRSR 0114
SIKA CHEMICAL CORP.	CLEVELAND, OHIO
SIKA CHEMICAL CORP.	AIR WRSR 0106
SIKA CHEMICAL CORP.	DENVER, CO.
SIKA CHEMICAL CORP.	AIR WRSR 0124
SIKA CHEMICAL CORP.	DENVER, CO.
SIKA CHEMICAL CORP.	AIR WRSR 0115
SIKA CHEMICAL CORP.	DENVER, CO.
SIKA CHEMICAL CORP.	AIR WRSR 0107
W. R. GRACE & CO.	LYNDHURST, N.J.
W. R. GRACE & CO.	AIR WRSR 0125
W. R. GRACE & CO.	LYNDHURST, N.J.
W. R. GRACE & CO.	AIR WRSR 0116
W. R. GRACE & CO.	HOUSTON, TX.
W. R. GRACE & CO.	AIR WRSR 0108
W. R. GRACE & CO.	HOUSTON, TX.
W. R. GRACE & CO.	AIR WRSR 0122
W. R. GRACE & CO.	HOUSTON, TX.
W. R. GRACE & CO.	AIR WRSR 0113
W. R. GRACE & CO.	AIR WRSR 0105

N=25

QPL_NO=03 MAT_NAME=NEOPRENE BRIDGE-BEARING PADS

NAME	CODE
ACME-HAMILTON MFG. CORP.	TRENTON, N.J.
ANCHOR PACKING CO	METAIRIE, LA.
B. U. RUBBER PRODUCTS	LOS ANGELES, CALIF.
FEL-PRO BUILDING PRODUCTS	SKOKIE, ILL.
FIRESTONE INDUSTRIAL	NOBLESVILLE, IND.
GENERAL TIRE & RUBBER CO.	WABASH, IND.
HUNTINGTON RUBBER CO.	PORRTLAND, ORE.
OIL STATES RUBBER CO.	ARLINGTON, TEX.
W. R. GRACE & COMPANY	CHICAGO, ILL.

N=9

QPL_NO=04 MAT_NAME=FLEXIBLE PLASTIC GASKETS

NAME	CODE
HAMILTON KENT MFG. CO.	KENT, OHIO
K. T. SNYDER COMPANY INC.	HOUSTON, TEX.

LIST OF QPL MATERIAL SOURCES

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----- QPL_NO=05 MAT_NAME=POLYURITHANE POURD JT-SEALERS -----

	NAME	CODE
EDOCO TECHNICAL PROD. INC.	LONG BEACH, CALIF.	0501
SPECIALTY PRODUCTS DIST. CO.	GLENDALE, CALIF.	0502

N=2

----- QPL_NO=06 MAT_NAME=PREFORMED ELAST COMP JT SEALS -----

	NAME	CODE
ACME HIGHWAY PROD. CORP	BUFFALO, N.Y.	0601
D. S. BROWN CO.	N. BALTIMORE, OHIO	0602
W. R. GRACE & CO.	CHICAGO, ILL.	0603
WATSON-BOWMAN ASSOC.	BUFFALO, N.Y.	0604

N=4

----- QPL_NO=07 MAT_NAME=PORTLAND CEMENT & POZZ CEMENT -----

	NAME	CODE
ALPHA PORTLAND CEMENT CO.	BIRMINGHAM, ALA.	CEMENT 0725
ALPHA PORTLAND CEMENT CO.	ORANGE, TEX.	CEMENT 0701
ARKANSAS CEMENT CORP.	FOREMAN, ARK.	CEMENT 0702
BAHAMA CEMENT CO.	FREEFCRT, GR. BAHAMA	CEMENT 0726
BLUE CIRCLE GROUP	NORTH FLEET, ENGLAND	CEMENT 0703
CEMENTOS ANAHUAC DEL GOLFO	TAMUIN, S.L.P., MEX.	CEMENT 0720
CITADEL CEMENT CORP.	DEMOPOLIS, ALA.	CEMENT 0723
DUNDEE CEMENT CO.	CLARKSVILLE, MO.	CEMENT 0704
DUNDEE CEMENT CO.	CLARKSVILLE, MO.	POZZOLAN CEMENT 0721
GENERAL PORTLAND INC.	FORT WORTH, TEX.	CEMENT 0706
GENERAL PORTLAND INC.	HOUSTON, TEX.	CEMENT 0705
GENERAL PORTLAND INC.	TAMPA, FLORDIA	CEMENT 0727
GIFFORD-HILL PORTLAND CEMENT	MIDLOTHIAN, TEX.	CEMENT 0707
IDEAL BASIC INDUSTRIES, INC.	ADA, CALAHOMA	CEMENT 0711
IDEAL BASIC INDUSTRIES, INC.	FLORENCE, COL.	CEMENT 0710
IDEAL BASIC INDUSTRIES, INC.	GALENA PARK, TEX.	CEMENT 0713
IDEAL BASIC INDUSTRIES, INC.	KNOXVILLE, TENN.	CEMENT 0712
IDEAL BASIC INDUSTRIES, INC.	MOBILE, ALA.	CEMENT 0708
IDEAL BASIC INDUSTRIES, INC.	SARATOGA, ARK.	CEMENT 0709
LONE STAR INDUSTRIES, INC.	HOUSTON, TEX.	CEMENT 0714
LONE STAR INDUSTRIES, INC.	NEW CRLEAN, LA.	CEMENT 0715
LOUISIANA CEMENT CO.	NEW CRLEAN, LA.	CEMENT 0716
MISSOURI PORTLAND CEMENT CO.	JOPPA, ILLINOIS	CEMENT 0724
RIVER CEMENT CO.	FESTUS, MO.	CEMENT 0717
TEXAS INDUSTRIES, INC.	MIDLOTHIAN, TEX.	CEMENT 0718
TEXAS INDUSTRIES, INC.	MIDLOTHIAN, TEX.	POZZOLAN CEMENT 0722
UNITED CEMENT CO. (TXI)	ARTESIA, MISS.	CEMENT 0719

QPL_ND=08

MAT_NAME=LUMIFLICANT ADHES FOR BR SEALS

NAME	CODE
ACME HIGHWAY PROD. CORP. D. S. BROWN CO. RCB5CH CORPORATION	BUFFALO, N.Y. N. BALTIMORE, OHIO OXFORD, MO.

N=3

QPL_ND=09 MAT_NAME=RAISED TRAFFIC MARKERS

NAME	CODE
AMERACE CORP. GULF INDUSTRIES, INC. INTERNATIONAL PLASTICS INC. RAY-C-LITE INC.	NILES, ILL. METAIRIE, LA. COLDWICH, KANSAS HUNTINGTON BCH, CALIF.

N=4

QPL_ND=10

MAT_NAME=MINERAL FILLER FOR ASPH CONC

NAME	CODE
ARKANSAS LIME CO. CALCITE INC. DOLCITE QUARRY CO. DRESSER MINERALS DIVISION GEORGIA MARBLE CO. GIFFORD-HILL & CO., INC. IDEAL CEMENT CO. LCNE STAR INDUSTRIES, INC. LOUISIANA CEMENT CO. NATIONAL CEMENT CO., INC. TEXAS INDUSTRIES, INC. TEXAS LIME CO. TRINITY MATERIALS INC. WINN ROCK	BATESVILLE, ARK. BERWICK, LA. BIRMINGHAM, ALA. HOUSTON, TEX. ATLANTA, GA. CASON, TEX. SARATOGA, ARK. NEW ORLEANS, LA. NEW ORLEANS, LA. RAGLAND, ALA. ARLINGTON, TEX. CLEBURNE, TEX. HATTIESBURG, MISS. WINNFIELD, LA.

N=14

QPL_ND=11

MAT_NAME=PATNT-INDRG ZINC PRIVERS & TC

NAME	CODE
AMERICAN CORROSION CONTROL DIV. BREA, CALIF. BYWATER SALES & SERVICE CO INC BELIE CHASSE, LA. EXXON CHEMICAL CO. IMPERIAL PROFESSIONAL COATINGS NEW ORLEANS, LA. MOBIL CHEMICAL CO.	1103 1106 1101 1104 1105

LIST OF QPL MATERIAL SOURCES

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---- QPL_NO=11 MAT_NAME=PAINT-INORG ZINC PRIMERS & TC -----

NAME CODE

SIGMA COATINGS, INC. HARVEY, LA. 1107

I=6

---- QPL_NO=12 MAT_NAME=PAINT-ORG ZINC PRIMERS & TC -----

NAME	CODE
ADMIRAL PAINT CO.	LAKE CHARLES, LA. 1201
AMERON CORROSION CONTROL DIV.	BREA, CALIF. 1202
EXXON CHEMICAL CO	BATON ROUGE, LA. 1203
FARBOIL COMPANY	BALTIMORE, MD. 1211
GROW CHEMICAL CO.	BATON ROUGE, LA. 1204
IMPERIAL PROFESSIONAL COATINGS	NEW ORLEANS, LA. 1209
MOBIL CHEMICAL CO.	BEAUMONT, TEX. 1205
NAPKO CORP.	HOUSTON, TEX. 1206
OFFSHORE COATINGS CORP.	NEW ORLEANS, LA. 1207
RELIANCE UNIVERSAL, INC.	HOUSTON, TEX. 1212
SIGMA COATINGS, INC.	HARVEY, LA. 1210

N=11

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---- QPL_NO=13 MAT_NAME=REFLECTIVE SHEETING -----

NAME	CODE
SEIBU POLYMER CHEMICAL CO.	TOKYO, JAPAN 1302
3M CO.	ST. PAUL, MINN. 1301

N=2

---- QPL_NO=14 MAT_NAME=SPECIAL CONC MASONRY FINISHES -----

NAME	CODE
CHEMREX SPECIALTY COATINGS INC.	EL PASO, TEX. 1401
KENITEX CHEMICALS INC.	TORRANCE, CALIF. 1403
NAPKO CORP.	HOUSTON, TEX. 1404
RUSSO PAINT MFG. CO.	BEAUMONT, TEX. 1405
SONNEBORN BUILDING PRODUCTS	HOUSTON, TEX. 1406
STANDARD DRY WALL PRODUCTS INC.	MIAMI, FLA. 1407
STANDARD T CHEMICAL CO.	DALLAS, TEX. 1408
TEXTURED COATINGS OF AMERICA	LOS ANGELES, CALIF. 1409
W. R. GRACE & CO.	HOUSTON, TEX. 1402

N=9

LIST OF QPL MATERIAL SOURCES

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---- QPL_NO=15 MAT_NAME=STARLUGS-LOAD TRANS DEVICES -----

NAME	CODE
TEXAS FOUNDRIES	LUFKIN, TEX. 1501
N=1	

---- QPL_NO=16 MAT_NAME=FARRICADE WARNING LITES -----

NAME	CODE
ELECTRADE CORP.	KANSAS CITY, MO. 1602
EMPCO-LITE	ELGIN, ILL. 1603
PROTECTION SERVICE INC.	HARRISBURG, PA. 1604
R.E. DIETZ CO.	SYRACUSE, N.Y. 1601
ROYAL INDUSTRIES	SOUTH HOLLAND, ILL. 1605

N=5

---- QPL_NO=17 MAT_NAME=PLASTIC FILTER CLOTH -----

NAME	CODE
CARTHAGE MILLS INC.	CINCINNATI, OHIO 1701
UNITED STATES TEXTURE SALES	BATON ROUGE, LA. 1702

N=2

---- QPL_NO=18 MAT_NAME=PREFORM CLSD CELL POLY JT SEAL -----

NAME	CODE
DOW CHEMICAL, USA	MIDLAND, MICH. 1804
SAF-T-GRIP	FARMINGDALE N. Y. 1803
W. R. GRACE & CO.	CHICAGO, ILL. 1801
W. R. MEADOWS INC.	ELGIN, ILL. 1802

N=4

---- QPL_NO=19 MAT_NAME=ANTISTRIPPING ADDITIVES -----

NAME	CODE
ARMAK CO.	CHICAGO, ILL. 1901
CINCINNATI MILACRON CHEMICALS	READING, OHIO 1902
DASCH OIL & CHEMICAL CO.	SHREVEPORT, LA. 1903
LANCASTER CHEMICAL CO.	NEWARK, N.J. 1904
NATIONAL RESEARCH & CHEMICAL	HAWTHORNE, CALIF. 1905
WESTVACO	NORTH CHARLESTON, S.C. 1906

N=6

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LIST OF QPL MATERIAL SOURCES

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---- QPL_NO=20 MAT_NAME=SELF LEVELING LEVELS ----

NAME	CODE
KEUFFEL & ESSER CO.	MORRISTOWN, N.J. 2001
TELEDYNE GURLEY	TROY, N.Y. 2002
WILD HEERBRUGG INSTRUMENTS	FARMINGDALE, N.Y. 2003

N=3

---- QPL_NO=21 MAT_NAME=METALLIC DETECTION TAPE & WIRE ----

NAME	CODE
ALLEN SYSTEMS INC.	WHEATON, ILL. 210
COMPLETE READING ELECTRIC CO.	HOUSTON, TEX. 2101
GRIFFOLYN CO. INC.	HOUSTON, TEX. 2103

N=4

---- QPL_NO=22 MAT_NAME=SILICON ADDITIVES FOR ASP CEM ----

NAME	CODE
DOW CORNING CORP.	DALLAS, TEX. 2201

N=1

---- QPL_NO=23 MAT_NAME=COLD GALVANIZING REPAIR COMPDS ----

NAME	CODE
BASF WYANDOTTE CORP.	CARLSTADT, N.J. 2303
BOWMAN PRODUCTS DIV.	CLEVELAND OHIO 2302
CRC CHEMICALS	WARMINISTER, PA. 2304
CROWN MFG. CO.	HEBRON, ILL. 2301
RUST OLEUM CORP.	EVANSTON, ILL. 2305

N=5

---- QPL_NO=24 MAT_NAME=RAPID SET PATCH MAT FOR CONC ----

NAME	CODE
A.C. HORN, INC.	NORTH BERGEN, N.J. 2402
GARON PRODUCTS, INC	EDISON, N.J. 2401
HURON CEMENT DIV.	ALPENA, MICH. 2406
LONE STAR LAFARGE CO.	NORFOLK, VA. 2407
MASTER BUILDERS	CLEVELAND, OHIO 2403
SOUTHERN QUIKRETE PRODUCTS	HARAHAN, LA. 2404
THE UPCO COMPANY	CLEVELAND, OHIO 2405

LIST OF QPL MATERIAL SOURCES

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QPL_NO=24

MAT_NAME=RADIO SET PATCH MAT FOR CONC

NAME	CODE
UNITED STATES GYPSUM CO.	CHICAGO, ILL. 2403

N=2

--- QPL_NO=25 MAT_NAME=ASPHALT MIX RELEASE AGENTS ---

NAME	CODE
DUBBIS CHEMICALS GLOSS CHEMICALS, INC. HUNTINGTON LABORATORIES INC. JACCO INC. UNITECH CHEMICAL INC.	CINCINNATI, OHIO TOLEDO, OHIO HUNTINGTON, I.O. GREENVILLE, S.C. CHICAGO, ILL.

N=5

--- QPL_NO=26 MAT_NAME=MANHOLE STEPS ---

NAME	CODE
ALUMINUM CO. OF AMERICA CONSTRUCTION PRODUCTS CORP. DELTA PIPE PRODUCTS M.A. IND. INC. UTILITY PRODUCTS INC.	PITTSBURGH, PA. INDIANAPOLIS, IND. ATLANTA, GA. PEACHTREE CITY, GA. SAN ANTONIO, TEX.

N=5

--- QPL_NO=27 MAT_NAME=PAINT-ACTIVATED EPOXY PRIM &TC ---

NAME	CODE
FAREDIL COMPANY RELIANCE UNIVERSAL INC. SIGMA COATINGS, INC.	BALTIMORE, MD. HOUSTON, TEX. HARVEY, LA.

N=3

--- QPL_NO=28 MAT_NAME=SOIL STERILANTS ---

NAME	CODE
CIBA-SEIGY CORPORATION E.I. DUPONT DE NEMOURS & CO.	ARDSLEY, N.Y. WILMINGTOM, DEL.

N=2

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LIST OF QPL MATERIAL SOURCES

QPL_NO=29

MAT_NAME=FORM RELEASE AGENTS

NAME	CODE
CITIES SERVICE OIL CO.	2901
EXXON CO. U.S.A.	2902
FORRER CHEMICAL	2903
HUNT PROCESS CORP.-SOUTHERN	2904
L & M CONSTRUCTION CHEMICALS	2905
LOUISIANA CONCRETE PRODUCTS	2906
NOX-CRETE CHEMICALS INC.	2907
STUTTON NORTH CORPORATION	2908

N=8

QPL_NO=30 MAT_NAME=ALL PURPOSE BLASTING SAND

NAME	CODE
COBB INDUSTRIAL CORPORATION	3001
JAHNCKE SERVICE INC.	3002
LONE STAR INDUSTRIES INC.	3003
SOUTHERN SILICA OF LA.	3004

J=4

QPL_NO=31 MAT_NAME=PAINT-HIGH BUILD WATERBNE TRAF

NAME	CODE
COUSHATA, LA.	3101
NEW ORLEANS, LA.	3102
HOUSTON, TEX.	
ALEXANDRIA, LA.	

N=2

QPL_NO=32 MAT_NAME=EPoxy RESIN SYSTEMS FOR CONC

NAME	CODE
DURAL INTERNATIONAL CORP.	3205
HUNT PROCESS CORP.-SOUTHERN	3201
SIKA CHEMICAL CORP.	3202
SINMAST OF AMERICA, INC.	3203
TOCH DIV., CARBOLINE CO.	3204

N=5

QPL_NO=33 MAT_NAME=PVC EXTENDED COAL TAR JT SEALS

NAME	CODE
SUPERIOR PROD. CO. INC.	3301
SPARKS NEVADA	

LIST OF QPL MATERIAL SOURCES

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---- QPL_NO=34 MAT_NAME=HYDRATED & QUICK LIME -----

ARKANSAS LIME COMPANY
 AUSTIN WHITE LIME CO.
 CHEMICAL LIME, INC..
 DRAVO LIME CO.
 MISSISSIPPI LIME CO.
 MISSISSIPPI LIME CO.
 PELICAN STATE LIME
 PELICAN STATE LIME
 ROUND ROCK LIME CO.
 TEXAS LIME CO.
 UNITED STATES GYPSUM CO.
 UNITED STATES GYPSUM CO.
 UNITED STATES GYPSUM CO.

NAME	CODE
BATESVILLE, ARK.	HYDRATED LIME 3401
AUSTIN, TX.	HYDRATED LIME 3402
CLIFTON, TX	HYDRATED LIME 3403
MAYSVILLE, KY.	QUICKLIME 3409
ALTON, ILL.	QUICKLIME 3410
ST. GENEVIEVE, MO.	HYDRATED LIME 3413
MORGAN CITY, LA.	HYDRATED LIME 3404
MORGAN CITY, LA.	QUICKLIME 3411
BLUM, TX.	HYDRATED LIME 3405
CLESURNE, TX.	HYDRATED LIME 3406
NEW BRAUNFELS, TX.	HYDRATED LIME 3408
NEW ORLEANS, LA.	HYDRATED LIME 3407
NEW ORLEANS, LA.	QUICKLIME 3412

N=13

---- QPL_NO=35 MAT_NAME=ELASTOMERIC RR GRADE XINGS -----

NAME	CODE
STRUCTURAL RUBBER PROD. CO. SPRINGFIELD, ILL.	3503
THE GENERAL TIRE & RUBBER CO. WABASH, IND.	3501
THE GOODYEAR TIRE & RUBBER CO. ST. MARYS, OHIO	3502

N=3

---- QPL_NO=99 MAT_NAME= -----

NAME	CODE
	9999

N=1

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LIST OF NON-QPL MATERIAL SOURCES

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MAT NAME=AGGREGATE NON QPL

NAME	CODE
BADALAMENTI PIT BELLE CHASSE, LA. (SAND) (02)	AG18
BELL PIT, INDIAN VILLAGE, LA (07), FINE SAND	AG02
BURMASTER FINE SAND WESTWEGO, LA. (02)	AG14
BURNETT PIT, LONGVILLE, LA (07), FINE SAND	AG01
COLLETTA PENERSON LAKE CHARLES (SAND)	AG24
DELUNAY PIT LAKE PROVIDENCE FINE SAND	AG21
E. A. GRAVOIS & SON VACHERIE, LA. (SAND) (02)	AG19
GIFFORD-HILL & CO., INC. BRIDGEPORT, TX. LIMESTONE	AG22
HIGGINBOTHAM INC. BATON ROUGE, LA.	AG25
J. B. TALLEY PARKS, LOUISIANA	AG37
J. C. GEORGE WEST MONROE S/C GRAVEL	AG39
J.P. MESSINA PLAQUEMIN, LA.	AG26
JAMES WINFORD CO. MINDEN, LA. SAND CLAY GRAVEL	AG28
JOE WITHROW PIT SHREVEPORT FINE SAND FOR HOTMIX	AG08
JOGS, INC. PEARL RIVER, LOUISIANA	AG34
KENNER LANDING KENNER, LOUISIANA	AG23
KINCHEN PIT METAIRIE, LA.	AG36
LAKE CHARLES DREDGING CO., LAKE CHARLES, LA (07), SHELL	AG03
LAMAR HADDOX CONTRACTING INC RUSTON, LA. SAND CLAY GRAVEL	AG31
LEON GRAY MINDEN S/C GRAVEL	AG07
LOUISIANA MATERIALS NEW ORLEANS, LA. (SHELLS) (02)	AG16
LOUISIANA PAVING KILLOWA, LA. (02) (FINE SAND)	AG15
MADDEN CONTRACTING MINDEN, LA. SAND CLAY GRAVEL	AG29
P. J. RUDOLPH BELLE CHASSE, LA. CLAM SHELLS	AG38
P. R. RUDOLPH & SONS BELLE CHASSE, LOUISIANA	AG27
PELICAN LIME CO. MORGAN CITY, LA. (HYDRATED LIME)	AG17
PHILLIPS BROS. WAGGAMAN, LA.	AG40
PONTCHARTRAIN MATERIALS NEW ORLEANS, LA. (SHELLS) (02)	AG10
RAOCLIFF MATERIALS NEW ORLEANS, LA. (SHELLS) (02)	AG11
RODOSTA BROS. FINE SAND (HOT MIX)	AG33
ROY COOK & SONS BOSSIER CITY, LA SAND CLAY GRAVEL	AG32
ROY SHARP, TURKEY CREEK (07), HMAC SAND	AG05
SOUTHERN EXCAVATION BOSSIER CITY, LA. SAND CLAY GRAVEL	AG30
SPILLWAY FINE SAND NORCO, LA. (02)	AG13
TEMPLETON PIT RAYVILLE FINE SAND, HOT MIX	AG06
THIBOUT PIT-SMOKE BEND DONALDSONVILLE, LA. (FINE SAND) (02)	AG12
TRIANGLE SHELL, MERMONTAU, LA (03)	AG04
VICON, INC. NAIRN, LOUISIANA	AG35
W. T. BURTON WESTLAKE, LA.	AG20

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LIST OF NON-QPL MATERIAL SOURCES

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---- MAT_NAME=BITUMINOUS MATERIALS ----

NAME		CODE
BERRY PRODUCTS CO.	STEVENS ARK,	LIQUID ASPHALT
BERRY REFINING CO.	STEVENS, AR,	ASPHALT CEMENT
BITUCOTE PRODUCTS CO.	ELDORADO, AR,	LIQUID ASPHALT
BITUCOTE PRODUCTS CO.	LAKE CHARLES,	LIQUID ASPHALT
CALUMET REFINING CO.	PRINCETON,	ASPHALT CEMENT
CHEVRON ASPHALT CO.	BATON ROUGE,	LIQUID ASPHALT
CHEVRON ASPHALT CO.	PRINCETON(CALUMET),	LIQUID ASPHALT
DIXIE MATERIALS INC.	PORT NECHES, TX,	LIQUID ASPHALT
EXXON OIL & REFINING CO.	BATON ROUGE,	ASPHALT CEMENT
EXXON OIL & REFINING CO.	BATON ROUGE,	LIQUID ASPHALT
GLOBE ASPHALT CO.	YAZOO CITY, MS,	LIQUID ASPHALT
GULF STATES ASPHALT CO OF LA.	WESTWEGO,	LIQUID ASPHALT
LION OIL CO.	ELDORADO, AR,	LIQUID ASPHALT
LION OIL CO.	ELDORADO, AR,	ASPHALT CEMENT
MCMILLAN RING FREE OIL CO.	NORFLEET, AR,	ASPHALT CEMENT
MCMILLAN RING FREE OIL CO.	NORFLEET, AR,	LIQUID ASPHALT
ROADWAYS INTERNATIONAL CORP.	BATON ROUGE	LIQUID ASPHALT
SHELL OIL CO.	NORCO,	ASPHALT CEMENT
SHELL OIL CO.	NORCO,	LIQUID ASPHALT
SOUTHLAND OIL CO.	SANDERSVILLE, MS	LIQUID ASPHALT
SOUTHLAND OIL CO.	YAZOO CITY, MS,	ASPHALT CEMENT
TEXACO OIL & REFINING CO.	PORT NECHES, TX,	ASPHALT CEMENT
TEXACO OIL & REFINING CO.	PORT NECHES, TX,	LIQUID ASPHALT

N=23

---- MAT_NAME=CATTLE GUARDS ----

NAME		CODE
CARBO FOUNDRY	ALEXANDRIA, LA.	CG01
CHACHERE CONST. CORP.	CHURCH POINT, LA.	CG02
FLYNN MFG., CO.	ALEXANDRIA, LA	CG03
L.H. BOSSIER, CO.	ALEXANDRIA, LA.	CG04

N=4

---- MAT_NAME=CONCR & CLAY PIPE & CONC BLKS ----

NAME		CODE
ANDERSON DUNHAM COMPANY	BATON ROUGE, LA.	CP21
BARRY CONCRETE PIPE CO.	LAFAYETTE, LA.	CP01
BOSTIC CONCRETE PIPE CO.	LAFAYETTE, LA.	CP02
BRASWELL CONCRETE CO	SHREVEPORT, LA.	CP03
CASHIO CONCRETE PRODUCTS	BATON ROUGE, LA.	CP04
CONCRETE PIPE PRODUCTS	LAKE CHARLES, LA.	CP05
CONCRETE PRODUCTS	ST. MARTINVILLE, LA.	CP06
CONSOLIDATED MATERIALS	NEW ORLEANS, LA.	CP07
DICKEY CLAY PIPE CO.	BESSEMER, ALA.	CP24

LIST OF NON-QPL MATERIAL SOURCES

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-- MAT_NAME=CONCR & CLAY PIPE & CONC' ELKS --

NAME	CODE
DICKEY CLAY PIPE CO.	CP25
DICKEY CLAY PIPE CO.	CP26
DOLESE CONCRETE COMPANY	CP08
DUNHAN PRICE COMPANY	CP09
DUFACRETE, INC.	CP10
GIFFORD HILL PIPE CO.	CP11
GIFFORD HILL PIPE CO.	CP12
LOUISIANA CONCRETE PRODUCTS	CP27
LOUISIANA CONCRETE PRODUCTS	CP28
LOUISIANA CONCRETE PRODUCTS	CP29
LOUISIANA INDUSTRIES, INC.	CP22
LOUISIANA INDUSTRIES, INC.	CP13
LOUISIANA INDUSTRIES, INC.	CP14
LOUISIANA INDUSTRIES, INC.	CP15
LOUISIANA SALES & MFG. CO.	CP16
MACK & ANDERS CONCRETE CO.	CP23
MID-STATE PRESTRESS CO.	CP17
NEW ORLEANS CEMENT PRODUCTS	CP18
PRESTRESSED CONCRETE PRODUCTS	CP19
STEVENS CONCRETE PIPE PRODS.	CP20
TEXARKANA CONCRETE PRODUCTS	CP30

N=30

-- MAT_NAME=CURING COMPOUNDS --

NAME	CODE
CHEMREX	CC04
CROWN-PACIFIC CHEMICAL CO.	CC02
HUNT PROCESS CORP.	CC01
NOX-CRETE CHEMICALS, INC.	CC05
OFFSHORE COATINGS	CC03

N=5

-- MAT_NAME=FENCING MATERIALS --

NAME	CODE
ACADIAN FENCE CO.	FM01
ALLIED TUBE & CONDUIT CORP.	FM02
ALLSTATE FENCE CO.	FM03
AMERICAN WHOLESALE FENCE CO.	HM04
ANCHOR POST FENCE PRODUCTS	HM05
ATLANTIC STEEL CO., INC.	FM06
BEAN SUPPLY CO., INC.	FM07
BEKMAN BARBED WIRE	FM08
DAIRYMAN INC.	FM09
EAST FELICIANA CO-OP	FM10
LAFAYETTE, LA	
HARVEY, IL	
HAMMOND, LA	
NEW ORLEANS, LA	
RIDGEFIELD, MISS.	
OMAHA, NEB.	
ATLANTA, GA	
BATON ROUGE, LA	
VAN BUREN, AK	
LAFAYETTE, LA	
SLAUGHTER, LA	

LIST OF NON-QPL MATERIAL SOURCES

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----- MAT_NAME=FENCING MATERIALS -----

NAME	CODE
ED'S FENCE CO.	FM11
EVANGELINE BROKERAGE	FM12
FARMER'S CO-OP	FM13
FELICIANA FARMER'S CO-OP	FM14
FELTUS BROS.	FM15
HALCO	FM16
HEARNE STEEL CO.	FM17
HOLMES & BARNES	FM18
HURRICANE STEEL	FM19
KENTWOOD CO-OP	FM20
LAFAYETTE FENCE CO.	FM21
LAWSON BROS.	FM22
MACK & ANDERS	FM23
MISSOURI ROLLING MILL	FM24
NATIONAL FENCE CORP.	FM25
GILCIE HOWE	FM26
ROBBINSON FENCE CO.	FM27
ROYAL FEED & SEED	FM28
SCOTT FENCE CO.	FM29
SOUTHERN STEEL & ALUM. CO.	FM30
SOUTHWESTERN CO-OP, INC.	FM31
STANDARD SUPPLY CO.	FM32
TITAN FENCE CO	FM33
TRI-PARISH CO-OP	FM34
U.S. STEEL CORP.	FM36
UNITED FENCE CO	FM35

N=36

----- MAT_NAME=HERBICIDES -----

NAME	CODE
AMCHEM CO.	HE01
CHEVRON CORP.	HE02
CIBA-GEIGY CORP	HE03
CRYSTAL CORP.	HE04
DIAMOND SHAMROCK	HE05
DOW CHEMICAL CO	HE06
DUPONT CHEMICAL CO	HE07
HERCULES, INC.	HE08
MONSANTO CHEM CO.	HE09
NALCO CHEM. CO.	HE10
RHOdia CORP.	HE11
SELLERS CHEM. CO.	HE12
THOMPSON-HAYWARD	HE13
U.S. BORAX	HE14
VELSICOL CHEM. CORP.	HE15
VINELAND CORP.	HE16

N=16

LIST OF NON-QPL MATERIAL SOURCES

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----- MAT_NAME=METAL PIPE -----

NAME	CODE
ANDERSON DUNHAM, INC.	BATON ROUGE, LA.
BAYOU CULVERT	CROWLEY, LA.
CALDWELL CULVERT	GREENVILLE, MISS.
CALDWELL CULVERT	JACKSON, MISS.
COASTAL CULVERT & SUPPLY	EUNICE, LA.
LOUISIANA INDUSTRIES	ALEXANDRIA, LA.
LOUISIANA METAL CULVERT(ARMCO)	BATON ROUGE, LA.
MACK & ANDERS CULVERTS	FERRIDAY, LA.

N=8

----- MAT_NAME=NON-QPL PAINTS -----

NAME	CODE
ADMIRAL PAINT CO., INC.	LAKE CHARLES, LA.
BALTIMORE PAINT & VARNISH CORP	BALTIMORE, MD
BYWATER SALES & SERVICE CO.	BELLE CHASSE, LA.
CATAPHOTE CORP.	JACKSON, MS
COATINGS DIV. OF PORTER PAINT CO.	BATON ROUGE, LA.
FARSCIL CO.	NEW ORLEANS, LA.
GLIDDEN-DURKEE	BATON ROUGE, LA.
IMPERIAL PROF. COATINGS CORP.	NEW ORLEANS, LA.
MATCOTE COMPANY, INC.	BATON ROUGE, LA.
MOBIL PAINT MFG. CO. INC.	THEODORE, AL.
NAPKO CORP.	NEW ORLEANS, LA.
OFFSHORE COATINGS CORP.	NEW ORLEANS, LA.
PPG INDUSTRIES, INC.	BATON ROUGE, LA.
PRISMO UNIVERSAL CORP.	PARISPPANY, NJ
SHERWIN-WILLIAMS CO.	BATON ROUGE, LA.
SIGMA COATINGS, INC.	HARVEY, LA.
SOUTHERN COATINGS & CHEMICAL	SLIDELL, LA.
WILLIAM ARMSTRONG SMITH	EAST POINT, GA

N=18

----- MAT_NAME=PAPER PRODUCTS -----

NAME	CODE
AMERICAN CAN CO.	GREENWICH, CONN.
BROWN COMPANY	BERLIN, N.H.
CAROLINA PAPER MILLS	ROCKINGHAM, N.C.
CLEVELAND COTTON CO.	CLEVELAND, OHIO
CROWN ZELLERBACH CORP.	SAN FRANCISCO, CALIF
ERVING PAPER MILLS	ERVING, MAINE
FORT HOWARD PAPER CO.	GREEN BAY, WISC.
GEORGIA PACIFIC PAPER CO.	STANFORD, CONN.
KIMBERLY CLARK CORP.	NEENAH, WISC.
SCOTT PAPER CO.	PHILADELPHIA, PENN.

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LIST OF NON-QPI MATERIAL SOURCES

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----- MAT_NAME=PAPER PRODUCTS -----

NAME	CODE
THE KENDALL COMPANY	BOSTON, MASS. PR11

N=11

----- MAT_NAME=PETROLEUM PRODUCTS -----

NAME	CODE
EXXON COMPANY	BATON ROUGE, LA. PP01

N=1

----- MAT_NAME=PLASTIC PIPE -----

NAME	CODE
ADVANCED DRAINAGE SYSTEMS MANCOR, INC.	ENNIS, TX PLO1 FINDLAY, OH PLO2

N=2

----- MAT_NAME=REINF & STRUCT STEEL & CASTING -----

NAME	CODE
ALABAMA STEEL CO.	BIRMINGHAM, ALA. R001
ALEXANDRIA IRON WORKS	BIRMINGHAM ALA. R002
ARMCO STEEL	CINCINNATI, OHIO R004
ARMCO STEEL	KANSAS CITY, MO. R003
ARMCO STEEL CORP.	HOUSTON, TX R019
ATLANTIC STEEL	ATLANTA, GEORGIA R022
ATLANTIC STEEL	X X R001
ATLANTIC STEEL	X X R002
ATLANTIC STEEL	X X R003
B. R. STEEL	SEATTLE, WASH. R008
BETHLEHEM STEEL	BETHLEHEM, PA. R005
BETHLEHEM STEEL	LOS ANGELES, CALIF. R006
BETHLEHEM STEEL	SEATTLE, WASH. R007
C F & I	PUEBLO, COLO. R009
CAPITOL STEEL	PUEBLO, COLO. R010
CARBO FOUNDRY	ALEXANDRIA, LA. (CASTINGS) R801
CHAPARRAL STEEL	MIDLOTHIAN, TX. R011
CONFASCO. PO BOX 3098	NEW ORLEANS, LA R201
DIBERT, BANCROFT & ROSS CO.	AMITE, LA. R102
FLORIDA STEEL	TAMPA, FLORIDA R021
GEORGETOWN STEEL	GEOGETOWN, S. C. R012
HARPER FOUNDRY	JACKSON, MISS. (CASTINGS) R018
KAWATETSU WIRE PRODUCTS CO.	CHIBA, JAPAN R020
LACLEDE STEEL SERVICE	ST. LOUIS, MO. R013

LIST OF NON-QPL MATERIAL SOURCES

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----- MAT_NAME=PEINF & STRUCT STEEL & CASTING -----

NAME	CODE	
LAFAYETTE STEEL SERVICE	ST. LOUIS, MO.	R014
LULICH STEEL CORP.	NEW ORLEANS, LA.	R203
MISSISSIPPI STEEL	JACKSON, MISS.	R015
NORTHWESTERN STEEL & WIRE CO.	STERLING, ILLINOIS	R023
NORTHWESTERN STEEL AND WIRE CO.	STERLING, ILLINOISX	R004
SOUTHEAST STEEL AND WIRE CO.	JEFFERSON, LOUISIANA	R202
SOUTHERN INDUSTRIAL FAB.	JACKSON, MISS.	R017
SOUTHERN INDUSTRIAL STEEL	JACKSON, MISS.	R016
VULCAN FOUNDRY	DENHAM SPRINGS, LA. (CASTINGS)	R101

N=33

----- MAT_NAME=RUBBER GASKETS -----

NAME	CODE	
BLUE RIDGE RUBBER CO.	HENDERSONVILLE, N. C.	RG01
HAMILTON KENT OF GEORGIA	STONE MOUNTAIN, GA.	RG02
OLIVER TIRE & RUBBER CO.	OAKLAND, CALIF.	RG03
SELLER-GLOBE CORP.	DORAVILLE, GA.	RG04

N=4

----- MAT_NAME=TIMBER PLANTS -----

NAME	CODE	
A & M WOOD TREATING	GREENWOOD, LA.	TP21
AMERICAN CREOSOTING WORKS	LOUISVILLE, MISS.	TP01
BENTON CREOSOTING WORKS	BENTON, LA.	TP02
COLFAX CREOSOTING	PINEVILLE, LA.	TP03
COLFAX LUMBER	COLFAX, LA.	TP20
DELTA TREATING CO.	GAUTIER, MISS.	TP04
DICKSON TREATING COMPANY	WINNFIELD, LA.	TP05
ELCO FOREST PRODUCTS	OPELOUSAS, LA.	TP18
EV-WOOD CREOSOTING	JENNINGS, LA.	TP06
FERNWOOD INDUSTRIES	FERNWOOD, MISS.	TP07
HOLLAND WOOD PRESERVERS	LEARNED, MISS.	TP08
INTERNATIONAL PAPER CO.	DERIDDER, LA.	TP09
INTERNATIONAL PAPER CO.	WIGGINS, MISS.	TP22
JASPER CREOSOTING CO.	JASPER, TEXAS	TP10
KOPPERS COMPANY	GRENADA, MISS.	TP11
MADISONVILLE CREOSOTING WORKS	MADISONVILLE, LA.	TP12
MARION PRESSURE TREATING CO.	MARION, LA.	TP13
MAURIN LUMBER COMPANY	HAMMOND, LA.	TP14
MISSISSIPPI WOOD PRESERVING	BROOKHAVEN, MISS.	TP15
OLIVER TREATING COMPANY	HAMMOND, LA.	TP16
R & K CREOSOTE	NATALBANY, LA.	TP23
REDDELL CREOSOTED PRODUCTS	REDDELL, LA.	TP17
TEXARKANA WOOD PRESERVERS	TEXARKANA, TEX.	TP24

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LIST OF NON-QPL MATERIAL SOURCES

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----- MAT_NAME=TIMBER PLANTS -----

NAME	CODE
WOOD TREATING INC.	PICAYUNE, MISS.
N=24	TP19

----- MAT_NAME=TRAFFIC CONES -----

NAME	CODE
A & B REFLECTORIZING CO.	ONTARIO, CALIF.
AMERICAN MOLDED PRODUCTS	SAUSALITO, CALIF.
CARSON MFG. CO.	SAUSALITO, CALIF.
EECOLITE DIVISION OF DPS, INC.	FOUNTAIN VALLEY, CALIF.
INTERSTATE DIV. ROYAL IND.	LOS ANGELES, CALIF.
RADIATOR SPECIALTY CO.	CHARLOTTE, N. C.
RICE MANUFACTURING CO.	VAN NUYS, CALIF.
TRI-TIX DIV. OF KELCH CORP	MEQUON, WISC.
WORK AREA PROTECTION CORP.	ADDISON, ILL.

N=9

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8. LIST OF SUBMITTERS

LIST OF MATT SYSTEM SUBMITTERS

19:32 MONDAY, MAY 14, 1979

CODE	NAME
0001	ADCO ENGRS. & PLANNERS
0002	AUCOIN, LINDSEY J. & ASSOCIATES
0033	BAKER-WIBBERLY & ASSOCIATES
0004	BARNARD, BURK, INC.
0005	BARNARD & BURK, HOWARD, NEEDLES, TAMMEN & BERGENDOFF
0006	BARNARD & THOMAS ENGINEERING, INC.
0007	BARRY, SIMMONS J.
0008	BEISWENDER, HCH & ASSOCIATES, INC.
0009	BERGEON & LANG
0010	BREIT & GRACIA
0011	BROWN & BUTLER
0012	BOUDREAUX, PAUL C. & ASSOCIATES
0013	BUKHART, HORN
0014	BURK & ASSOCIATES, INC.
0015	BURK & ASSOCIATES, INC & FROMHERZ ENGINEERS
0016	W. T. BURT III, ASST. MATERIALS ENGINEER
0017	CAFFERY, D. RALPH DR ASSOCIATES, INC.
0018	MATLAB INSPECTION UNIT - L. L. CAMARDELLE
0019	DAIGRE, LOUISE J. & ASSOCIATES OR DAIGRE, MEYERS & WATTS
0020	DAWSONS ENGINEERS, INC.
0021	DELAUREAL ENGINEERS, INC.
0022	DEMOPULOS-FERGUSON
0023	MATLAB INSPECTION UNIT - S. DICKSON
0024	DOMINGUE, SZABO & ASSOCIATES, INC.
0025	DORNBALTT, B. M. & ASSOCIATES, INC.
0026	EUSTIS ENGINEERING COMPANY
0027	EVANS, E. E. & ASSOCIATES, INC.
0028	FORTE & TABALADA
0029	FENSTERMAKER, C. H. & ASSOCIATES
0030	FOURNET, J. BRIANT & ASSOCIATES
0031	FRANKLIN & LIENHARD & McDUESKI & MASTERS
0032	FRANTZ, W. K. JR.
0033	FRIEDE & GOLDEN, INC.
0034	FROMHERZ, ENGINEERS
0035	GANDOLFO, KUHN & ASSOCIATES
0036	GOLEAUX, MORGAN & ASSOCIATES
0037	GULF SOUTHERN ENGINEERS, INC.
0038	HACKETT & BAILEY
0039	MATLAB INSPECTION UNIT - H. HARVEY
0040	HARRIS & VARISCO
0041	MATLAB INSPECTION UNIT - L. J. TULLIER
0042	HECK, CARL ENGINEERS, INC.
0043	HEFT, G. A. & COMPANY
0044	MATLAB INSPECTION UNIT - ROY HICKS
0045	CHARLES M. HIGGINS, CONSTRUCTION MATERIALS ENGINEER
0046	HOWARD, NEEDLES, TAMMEN & BERGENDOFF
0047	JOFFRION & ASSOCIATES
0048	KERSTENS, J. C. & ASSOCIATES
0049	KREBS, J. J. & SONS, INC.
0050	LOWERY, JOHN L. & ASSOCIATES
0051	LYONS, J. W., RESEARCH & DEVELOPMENT ENGINEER
0052	MCCAIN, JOHN I. & ASSOCIATES
0053	MATLAB INSPECTION UNIT - A. MILLER, JR.
0054	MILLER, THOMAS & MILLER, INC.

LIST OF MATT SYSTEM SUBMITTERS

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CODE NAME

0055	MINORITY ENGINEER OF LA., INC
0056	MODJESKI & MASTERS
0057	MORR & ASSOCIATES
0058	MUNSON, G. K. PRATT
0059	N-Y ASSOCIATES
0060	NELSON, VALEMAR S. & CO., INC.
0061	PALMER & BAKER ENGINEERS, INC.
0062	PAVLO, E. LIONEL ENGINEER CO.
0063	PEPPER & ASSOCIATES, INC.
0064	PERRAULT & PERRAULT, INC.
0065	PERRIN & ASSOCIATES, INC.
0066	PICCIOLA & ASSOCIATES
0067	PLAISANCE, J. WAYNE, INC.
0068	PROFESSIONAL ENGINEERING CONSULTANTS CORPORATION
0069	REAMES, ELWOOD & ASSOCIATES
0070	REID, R. L. & ASSOCIATES
0071	RUSHING, H. B., MATERIALS ENGINEER
0072	SELLERS, DUBROC & ASSOCIATES, INC.
0073	SMITH, T. BAKER & SONS, INC.
0074	STEWART, EASTON & ASSOCIATES
0075	SWITZER, ALBERT & ASSOCIATES
0076	TALBOT, DOUGLAS S.
0077	THERIOT, ALEX JR.
0078	THOMPSON & STIRLING
0079	VOLKERT, DAVID & ASSOCIATES
0080	THERIOT, HARRY, PROJECT ENGINEER
0081	MATLAB INSPECTION UNIT - ROBERT GUIN
0082	MATLAB INSPECTION UNIT - W. O. BLOCKER
0083	MATLAB INSPECTION UNIT - PHILLIP LOBELL
0084	MATLAB INSPECTION UNIT - WILLIAM DRAKE
0085	MATLAB INSPECTION UNIT - BILLY LAIRD
0086	MATLAB INSPECTION UNIT - LAWRENCE LAMBERT
0087	MATLAB INSPECTION UNIT - BEN NOUARD
0088	MATLAB INSPECTION UNIT - H. B. DUNCAN, JR.
0089	CENTRAL WAREHOUSE, BATON ROUGE
0090	TRAFFIC SERVICES, BATON ROUGE
0091	CENTRAL PURCHASING, BATON ROUGE
0100	LDOTD RES. INSP., C/O BELDEN CONC. PROD. CO., BARGE PLANT, METARIE, LA.
0101	LDOTD RES. INSP., C/O BELDEN CONC. PROD. CO., MAIN PLANT, METARIE, LA.
0102	LDOTD RES. INSP., C/O CONC. PIPE PROD. CO., LAKE CHARLES, LA.
0103	LDOTD RES. INSP., C/O CON-PLEY, INC., JACKSON, MISS.
0104	LDOTD RES. INSP., C/O DIAMOND CONSTRUCTION CO.
0105	LDOTD RES. INSP., C/O DUNHAM FRICE, INC., LAKE CHARLES, LA.
0106	LDOTD RES. INSP., C/O F & S PRESTRESS, INC., HAMPTON, ARK.
0107	LDOTD RES. INSP., C/O F & S PRESTRESS, INC., HATTIESBURG, MISS.
0108	LDOTD RES. INSP., C/O F & S PRESTRESS, INC., PRINCETON, LA.
0109	LDOTD RES. INSP., C/O F & S PRESTRESS, INC., SHREVEPORT, LA.
0110	LDOTD RES. INSP., C/O GULF COAST PRESTRESS, PASS CHRISTIAN, MISS.
0111	LDOTD RES. INSP., C/O LA. CONC. PROD. CO., PERKINS RD., BATON ROUGE, LA.
0112	LDOTD RES. INSP., C/O LA. CONC. PROD. CO., PORT ALLEN, BATON ROUGE, LA.
0113	LDOTD RES. INSP., C/O LA. IND. PRESTRESS PLANT, HARAHAN, LA.
0114	LDOTD RES. INSP., C/O LA. IND., SHREVEPORT, LA.
0115	LDOTD RES. INSP., C/O MID-STATE PRESTRESS, WOODWORTH, LA.
0116	LDOTD RES. INSP., C/O PRESTRESSED CONC. PROD. CO., MANDEVILLE, LA.

LIST OF MATT SYSTEM SUBMITTERS

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CODE	NAME
0117	LDOTD RES. INSP., C/O J. T. RICHARDSON CO., RUSTON, LA.
0118	LDOTD RES. INSP., C/O BILOXI FESTRESS CORP., BILOXI, MISS.
0119	LDOTD RES. INSP., C/O BOBBITT CORP., MANCHAC, LA.
0120	LDOTD RES. INSP., C/O MARINE CONCRETE STRUCT., INC., PORT BIENVILLE, MISS.
0121	LDOTD RES. INSP., C/O WASKEY BRIDGES, INC., BATON ROUGE, LA.
0122	LDOTD RES. INSP., C/O HELDENFELS BROS., CORPUS CHRISTI, TEXAS
0123	LDOTD RES. INSP., C/O LA. PAVING CO., MANCHAC, LA.
0200	J. C. McGREW, DISTRICT ENGINEER
0202	WILLIE T. TAYLOR, JR., ASST. DISTRICT ENGINEER (CONSTRUCTION)
0203	NATHAN M. CHILDS, ASST. DISTRICT ENGINEER (MAINTENANCE)
0204	L. A. TROCQUET, JR., ASST. MAINTENANCE ENGINEER (DISTRICT)
0205	JARVIS J. POCHE, DISTRICT LAB ENGINEER
0206	DISTRICT 02, FHWA AREA ENGINEER
0207	DISTRICT 02 BUSINESS MANAGER
0220	ROBERT ROTH-PROJECT ENGINEER
0222	JARVIS J. POCHE, DISTRICT LABORATORY ENGINEER
0223	STUART MCCARDLE-PROJECT ENGINEER
0224	ROBERT E. GUNTER-PROJECT ENGINEER
0225	RICHARD DOOD-PROJECT ENGINEER
0226	R. KENT DOYLE-RESIDENT CONSTRUCTION ENGINEER
0227	STUART MCCARDLE-PROJECT ENGINEER
0229	BOBBY HEBERT-RESIDENT CONSTRUCTION ENGINEER
0231	HERIBERTO RIVERA-PROJECT ENGINEER
0232	A. V. FLOTTE-RESIDENT CONSTRUCTION ENGINEER
0233	CITY OF NEW ORLEANS
0234	BEALL ENGINEERS
0300	W. C. VINCENT, DISTRICT ENGINEER
0301	JAMES R. NEEF, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0302	ALEX F. WATKINS, ASST. DISTRICT ENGINEER (MAINTENANCE)
0303	FRANCIS H. WYBLE, ASST. MAINTENANCE ENGINEER (DISTRICT)
0304	F. S. MOORE, DISTRICT LAB ENGINEER
0305	DISTRICT 03, FHWA AREA ENGINEER
0306	DISTRICT 03 BUSINESS MANAGER
0321	JOHN LEBLANC-RESIDENT CONSTRUCTION ENGINEER
0322	ALFRED FUSELIER-RESIDENT CONSTRUCTION ENGINEER
0323	WAGEE J. MOSS-RESIDENT CONSTRUCTION ENGINEER
0324	IRVIN L. LERANGER-RESIDENT CONSTRUCTION ENGINEER
0325	JOHN LEBLANC-RESIDENT CONSTRUCTION ENGINEER
0326	ANDREW G. QUIRK-PROJECT ENGINEER
0328	TEDDY J. BABIN-PROJECT ENGINEER
0329	JOHN W. ANDRUS-RESIDENT CONSTRUCTION ENGINEER
0374	BEALL ENGINEERS
0400	ROY E. MITCHELL, DISTRICT ENGINEER
0401	R. E. DILLON, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0402	WAYNE YATES, ASST. DISTRICT ENGINEER (MAINTENANCE)
0403	A. G. GARRETT, ASST. MAINTENANCE ENGINEER (DISTRICT)
0404	CHARLES ADCOX, DISTRICT LAB ENGINEER
0405	DISTRICT 04, FHWA AREA ENGINEER
0406	DISTRICT 04 BUSINESS MANAGER
0420	HARRISON HANNON PROJECT ENGINEER
0421	JERRY BLACKBURN-RESIDENT CONSTRUCTION ENGINEER
0422	OLIVER BUHLS-RESIDENT CONSTRUCTION ENGINEER
0423	WARREN S BAUGH-ASSISTANT CONSTRUCTION ENGINEER
0424	OLIVER BUHLS-PROJECT ENGINEER

LIST OF MATT SYSTEM SUBMITTERS

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CODE	NAME
0425	HARRISON HANNON PROJECT ENGINEER
0428	JERRY BLACKBURN-RESIDENT CONSTRUCTION ENGINEER
0500	VAN WESTBROOK, DISTRICT ENGINEER
0501	LEWIS B. HOWE, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0502	R. K. MCKNEELEY, ASST. DISTRICT ENGINEER (MAINTENANCE)
0503	ASST. MAINTENANCE ENGINEER (DISTRICT)
0504	DONALD L. TOLAR, DISTRICT LAB ENGINEER
0505	DISTRICT 05, FHWA AREA ENGINEER
0506	DISTRICT 05, BUSINESS MANAGER
0521	JAMES HOODGLAND-RESIDENT CONSTRUCTION ENGINEER
0522	RICHARD B. PAULUS-RESIDENT CONSTRUCTION ENGINEER
0524	E. E. HALE, JR., RESIDENT CONSTRUCTION ENGINEER, OAK GROVE
0525	JIMMY C. WILLIAMS-RESIDENT CONSTRUCTION ENGINEER
0527	E. E. HALE JR.-RESIDENT CONSTRUCTION ENGINEER
0529	E. E. HALE, JR.,-RESIDENT CONSTRUCTION ENGINEER, TALLULAH
0581	SAM D. COLE, III - PROJECT ENGINEER
0582	W. T. KAUFMAN-PROJECT ENGINEER
0584	PERRY APLIN, JR.-PROJECT ENGINEER
0585	EDGAR MITCHELL, DISTRICT ENGINEER
0590	HOUSTON CHAMPLIN, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0591	BILLY C. SHARP,ASST. DISTRICT ENGINEER (MAINTENANCE)
0592	C. N. WEST, DIST. LAB. ENGINEER IN TRAINING
0593	DISTRICT 58, FHWA AREA ENGINEER
0594	DISTRICT 58, BUSINESS MANAGER
0595	JOHN W. STARRING-RESIDENT CONSTRUCTION ENGINEER
0603	FREDRICK G. LANDRY-PROJECT ENGINEER
0604	FREDRICK G. LANDRY-PROJECT ENGINEER
0605	SYLVESTER ARNOLD-PROJECT ENGINEER
0607	FREDRICK G. LANDRY-PROJECT ENGINEER
0608	ROY J. DEJEAN, JR., PROJECT ENGINEER
0609	CARLISLE S. RICHARD, DISTRICT ENGINEER
0610	C. O. BEZARD, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0611	ROBERT MORALES, ASST. DISTRICT ENGINEER (MAINTENANCE)
0612	LOUIS WITTE, ASST. MAINTENANCE ENGINEER (DISTRICT)
0613	EVERETT L. AUSTIN-PROJECT ENGINEER
0614	CECIL M. WATSON, DISTRICT LAB ENGINEER
0615	W. L. LANDON, JR.-RESIDENT CONSTRUCTION ENGINEER
0616	H. W. BIGGS-PROJECT ENGINEER
0617	DISTRICT 61 BUSINESS MANAGER
0618	GERALD FUSSELL-PROJECT ENGINEER
0619	JAMES A. LITTLE - PROJECT ENGINEER
0620	LEEVY WAPEZ-PROJECT ENGINEER
0621	H. P. DEKERLEGAND-PROJECT ENGINEER
0622	DAVID LANIER-PROJECT ENGINEER
0623	GERALD FUSSELL-RESIDENT CONSTRUCTION ENGINEER
0625	WALLACE L. ADAMS-RESIDENT CONSTRUCTION ENGINEER
0627	JAMES C. MOORE, DISTRICT ENGINEER
0630	ROBERT COOPER, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0631	MARION K. JOHNSTON, ASST. DISTRICT ENGINEER (MAINTENANCE)
0632	MAURICE JORDAN, ASST. MAINTENANCE ENGINEER (DISTRICT)
0633	EARL F. WILSON, DISTRICT LAB ENGINEER
0634	DISTRICT 62, FHWA AREA ENGINEER
0635	
0636	

LIST OF MATT SYSTEM SUBMITTERS

19:32 MONDAY, MAY 14, 1979

CODE	NAME
0637	DISTRICT 62 BUSINESS MANAGER
0700	OLIVIER BROUSSARD III, DISTRICT ENGINEER
0701	F. L. COX, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0702	GEORGE W. BASS, ASST. DISTRICT ENGINEER (MAINTENANCE)
0703	M. M. CRYER, ACTING DISTRICT LAB ENGINEER
0704	DISTRICT 07, FHWA AREA ENGINEER
0705	DISTRICT 07 BUSINESS MANAGER
0706	B J LANDRY, DISTRICT PUBLIC WORKS ENGINEER
0722	FITZHUGH L COX, RESIDENT CONSTRUCTION ENGINEER
0724	FITZHUGH L COX, RESIDENT CONSTRUCTION ENGINEER
0725	BURTON A. PLATT-PROJECT ENGINEER
0726	WILLIAM FONTEGNT, JR., PROJECT ENGINEER
0728	LESTER J. LEBLANC, PROJ. ENGR.
0800	W. M. BYLES, DISTRICT ENGINEER
0801	BILLY C. DANIELS, ASST. DISTRICT ENGINEER (CONSTRUCTION)
0802	MELVYN JACKSON, ASST. DISTRICT ENGINEER (MAINTENANCE)
0803	WILLIE E. PUGH, JR., ASST. MAINTENANCE ENGINEER (DISTRICT)
0804	KENNETH J. ROY, DISTRICT LAB ENGINEER
0805	DISTRICT 08, FHWA AREA ENGINEER
0806	DISTRICT 08 BUSINESS MANAGER
0820	CLAYTON C. WEBB-PROJECT ENGINEER
0821	WAYNE MARCHAND-PROJECT ENGINEER
0822	DANIEL W. BRADFORD-PROJECT ENGINEER
0826	JESSIE LACHNEY - PROJECT ENGINEER
0827	T. G. WATTS-PROJECT ENGINEER
0828	BERNARD L. MAYEAUX, JR.-PROJECT ENGINEER
0903	WILLIAM L HAYMON, SRD PROJECT DIRECTOR
9999	

N=244

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-7

9. LIST OF MATERIAL CODES

TABLE R-1: AGGREGATE CODES

NAME	CODE
FINE AGGREGATE FOR CONCRETE	201
GRADE A COARSE AGGREGATE (GRAVEL) FOR CONCRETE	202
GRADE A COARSE AGGREGATE (CRUSHED STONE) FOR CONCRETE	203
GRADE A COARSE AGGREGATE (CRUSHED SLAG) FOR CONCRETE	204
GRADE B COARSE AGGREGATE (GRAVEL) FOR CONCRETE	205
GRADE B COARSE AGGREGATE (CRUSHED STONE) FOR CONCRETE	206
GRADE B COARSE AGGREGATE (CRUSHED SLAG) FOR CONCRETE	207
GRADE D COARSE AGGREGATE (GRAVEL) FOR CONCRETE	208
GRADE D COARSE AGGREGATE (CRUSHED STONE) FOR CONCRETE	209
GRADE D COARSE AGGREGATE (CRUSHED SLAG) FOR CONCRETE	210
GRADE E COARSE AGGREGATE (GRAVEL) FOR CONCRETE	211
GRADE E COARSE AGGREGATE (CRUSHED STONE) FOR CONCRETE	212
GRADE Y LIGHTWEIGHT AGGREGATE FOR CONCRETE	213
SAND CLAY GRAVEL FOR BASE COURSE	214
SAND CLAY GRAVEL FOR BASE COURSE WITH CEMENT STABILIZATION	215
SAND CLAY GRAVEL BASE COURSE WITH LIME TREATMENT	216
SHELL FOR BASE COURSE	217
BINDER FOR SHELL BASE COURSE	218
WASHED GRAVEL FOR SURFACE COURSE	219
CRUSHED STONE FOR SURFACE COURSE	220
SAND CLAY GRAVEL FOR SURFACE COURSE	221
SHELL FOR SURFACE COURSE	222
BINDER FOR SHELL SURFACE COURSE	223
BINDER FOR GRAVEL OR CRUSHED STONE SURFACE COURSE	224
SIZE 1 CRUSHED GRAVEL FOR SURFACE TREATMENT	225
SIZE 1 CRUSHED STONE FOR SURFACE TREATMENT	226
SIZE 1 CRUSHED SLAG FOR SURFACE TREATMENT	227
SIZE 1 UNCRUSHED GRAVEL FOR SURFACE TREATMENT	228
SIZE 1 EXPANDED CLAY FOR SURFACE TREATMENT	229
SIZE 2 CRUSHED GRAVEL FOR SURFACE TREATMENT	230
SIZE 2 CRUSHED STONE FOR SURFACE TREATMENT	231
SIZE 2 CRUSHED SLAG FOR SURFACE TREATMENT	232
SIZE 2 UNCRUSHED GRAVEL FOR SURFACE TREATMENT	233
SIZE 2 EXPANDED CLAY FOR SURFACE TREATMENT	234
SIZE 3 CRUSHED GRAVEL FOR SURFACE TREATMENT	235
SIZE 3 CRUSHED STONE FOR SURFACE TREATMENT	236
SIZE 3 CRUSHED SLAG FOR SURFACE TREATMENT	237
SIZE 3 UNCRUSHED GRAVEL FOR SURFACE TREATMENT	238
SIZE 3 EXPANDED CLAY FOR SURFACE TREATMENT	239
SIZE 2 CRUSHED GRAVEL FOR SHOULDERS	240
SIZE 2 CRUSHED STONE FOR SHOULDERS	241
SIZE 2 CRUSHED SLAG FOR SHOULDERS	242
SIZE 2 UNCRUSHED GRAVEL FOR SHOULDERS	243
SIZE 2 EXPANDED CLAY FOR SHOULDERS	244
LIMESTONE DUST MINERAL FILLER	245
SILICA DUST MINERAL FILLER	246
SHELL DUST MINERAL FILLER	247
CEMENT STACK DUST MINERAL FILLER	248
SAND FOR MORTAR	249
GRANULAR MATERIAL	250
COARSE AGGREGATE (CRUSHED GRAVEL) FOR ASPHALTIC CONCRETE MIX	251
COARSE AGGREGATE (CRUSHED STONE) FOR ASPHALTIC CONCRETE MIX	252
COARSE AGGREGATE (CRUSHED SLAG) FOR ASPHALTIC CONCRETE MIX	253
CRUSHED CLAM SHELL FOR ASPHALTIC CONCRETE MIX	254

NAME	CODE
CRUSHED REEF SHELL FOR ASPHALTIC CONCRETE MIX	255
CRUSHED CLAM & REEF FOR ASPHALTIC CONCRETE MIX	256
EXPANDED CLAY FOR ASPHALTIC CONCRETE MIX	257
SCREENINGS FOR TYPE 3 WEARING COURSE	258
SAND EQUIVALENT FOR FINE SAND	259
SAND FOR SPECIAL EMBANKMENT	260
SHELL FOR SPECIAL EMBANKMENT	261
GRAVEL FOR SPECIAL EMBANKMENT	262
BIN NO. 1 FOR ASPHALTIC CONCRETE	263
BIN NO. 2 FOR ASPHALTIC CONCRETE	264
BIN NO. 3 FOR ASPHALTIC CONCRETE	265
BIN NO. 4 FOR ASPHALTIC CONCRETE	266
PEA GRAVEL FOR BACKFILL	267
BAG HOUSE DUST MINERAL FILLER	268
COARSE AGGREGATE FOR CLASS P MODIFIED CONCRETE FOR COMPOSITE DECK UNITS	269
FLY ASH MINERAL FILLER	270

TABLE R-2: ASPHALT CEMENT AND LIQUID ASPHALT CODES

----- MAT_NAME=ASPHALT CEMENT -----	
NAME	CODE
ASPHALT CEMENT GRADE AC-5	205
ASPHALT CEMENT GRADE AC-20	220
ASPHALT CEMENT GRADE AC-30	230
ASPHALT CEMENT GRADE AC-40	240

----- MAT_NAME=LIQUID ASPHALT -----	
NAME	CODE
RC-70 CUTBACK LIQUID ASPHALT	201
RC-250 CUTBACK LIQUID ASPHALT	202
RC-800 CUTBACK LIQUID ASPHALT	203
MC-30 CUTBACK LIQUID ASPHALT	211
MC-70 CUTBACK LIQUID ASPHALT	212
MC-250 CUTBACK LIQUID ASPHALT	213
SS-1 ANIONIC EMULSIFIED LIQUID ASPHALT	221
SS-1H ANIONIC EMULSIFIED LIQUID ASPHALT	222
CRS-2 CATIONIC EMULSIFIED LIQUID ASPHALT	231
CQS-1H CATIONIC EMULSIFIED LIQUID ASPHALT	241
CSS-1H CATIONIC EMULSIFIED LIQUID ASPHALT	251
CMS-2 CATIONIC EMULSIFIED LIQUID ASPHALT	261

TABLE R-3: CEMENT, STEEL BAR AND STEEL WIRE CODES

----- MAT_NAME=CEMENT -----	
NAME	CODE
TYPE I PORTLAND CEMENT(MORE THAN 1 SAMPLE)	056
TYPE II PORTLAND CEMENT(MORE THAN 1 SAMPLE)	057
TYPE III PORTLAND CEMENT	058
TYPE IV PORTLAND CEMENT(MORE THAN 1 SAMPLE)	059
TYPE V PORTLAND CEMENT(MORE THAN 1 SAMPLE)	060
MASONRY CEMENT	061
TYPE IB PORTLAND CEMENT(MORE THAN 1 SAMPLE)	062
TYPE IP PORTLAND-POZZOLAN CEMENT(MORE THAN 1 SAMPLE)	063
TYPE I PORTLAND CEMENT(1 SAMPLE)	150
TYPE II PORTLAND CEMENT(1 SAMPLE)	157
TYPE IV PORTLAND CEMENT(1 SAMPLE)	159
TYPE V PORTLAND CEMENT(1 SAMPLE)	161
TYPE IB PORTLAND CEMENT(1 SAMPLE)	162
TYPE IP PORTLAND-POZZOLAN CEMENT(1 SAMPLE)	163

----- MAT_NAME=STEEL BAR -----	
NAME	CODE
COLD DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT	082
GRADE 40 STEEL BAR FOR CONCRETE REINFORCEMENT	540
GRADE 60 STEEL BAR FOR CONCRETE REINFORCEMENT	560
GRADE 50 RAIL-STEEL BAR FOR CONCRETE REINFORCEMENT	650
GRADE 60 RAIL-STEEL BAR FOR CONCRETE REINFORCEMENT	660
GRADE 40 AXLE-STEEL BAR FOR CONCRETE REINFORCEMENT	740
GRADE 60 AXLE-STEEL BAR FOR CONCRETE REINFORCEMENT	760

----- MAT_NAME=STEEL WIRE -----	
NAME	CODE
GRADE 250 SEVEN-WIRE STRAND FOR PRESTRESSED CONCRETE	250
GRADE 270 SEVEN-WIRE FOR PRESTRESSED CONCRETE	270
STRESS-RELIEVED WIRE PRESTRESSED CONCRETE	421

TABLE R-4: STRUCTURAL AND PAVING CONCRETE CODES

----- MAT_NAME=PAVING CONCRETE -----	
NAME	CODE
TYPE B PAVING CONCRETE	101
CLASS A STRUCTURAL CONCRETE FOR PAVING	102
TYPE C PAVING CONCRETE	103
TYPE D PAVING CONCRETE	104
TYPE E PAVING CONCRETE	105
CLASS A MINOR CONCRETE FOR PAVING	111

----- MAT_NAME=STRUCTURAL CONCRETE -----	
NAME	CODE
COMPRESSIVE STRENGTH FOR CLASS 'AA'	201
COMPRESSIVE STRENGTH FOR CLASS 'A'	202
COMPRESSIVE STRENGTH FOR CLASS 'D'	203
COMPRESSIVE STRENGTH FOR CLASS 'P'	204
COMPRESSIVE STRENGTH FOR CLASS 'R'	205
COMPRESSIVE STRENGTH FOR CLASS 'S'	206
COMPRESSIVE STRENGTH FOR CLASS 'W'	207
COMPRESSIVE STRENGTH FOR CLASS 'X'	208
COMPRESSIVE STRENGTH FOR CLASS 'Y'	209
COMPRESSIVE STRENGTH FOR CLASS 'AA'(MINOR)	210
COMPRESSIVE STRENGTH FOR CLASS 'A'(MINOR)	211
COMPRESSIVE STRENGTH FOR CLASS 'D'(MINOR)	212
COMPRESSIVE STRENGTH FOR CLASS 'P'(MINOR)	213
COMPRESSIVE STRENGTH FOR CLASS 'R'(MINOR)	214
COMPRESSIVE STRENGTH FOR CLASS 'S'(MINOR)	215
COMPRESSIVE STRENGTH FOR CLASS 'W'(MINOR)	216
COMPRESSIVE STRENGTH FOR CLASS 'X'(MINOR)	217
COMPRESSIVE STRENGTH FOR CLASS 'Y'(MINOR)	218
COMPRESSIVE STRENGTH FOR CLASS 'A'(APPROACH SLAB)	219
COMPRESSIVE STRENGTH FOR CLASS 'AA(M)'	221
COMPRESSIVE STRENGTH FOR CLASS 'A(M)'	222

TABLE R-5: MISCELLANEOUS MATERIAL CODES

NAME	CODE	NAME	CODE
ADMIXTURES FOR CONCRETE	101	MESH WIRE FOR FENCING	136
ALUMINUM	102	METAL PIPE	137
ALUMINUM PASTE	103	MINERAL FILLER	138
ALUMINUM VEHICLE	104	MISCELLANEOUS FENCE PARTS	139
ANTI-STRIPPING ADDITIVE	105	MISCELLANEOUS HARDWARE	198
ASPHALT JOINT SEALER WITH MINERAL FILLER	181	NAILS	140
ASPHALT RELEASE AGENT	176	NUTS	141
BARBED WIRE	106	DIL	188
BARBED WIRE ARM	107	PAINTS	142
BITUMINOUS PIPE COATING	108	PAPER TOWEL	180
BLOCKS & BRICKS	109	PLAIN WELDED WIRE FABRIC	143
BOLTS	110	PLASTIC PIPE	196
BRUSH	200	PLASTIC PIPE	199
CANTILEVER LOAD TRANSMISSION DEVICE	111	POLYETHYLENE FILM	144
CAST IRON BAR	112	POLYETHYLENE STRIP	145
CATALYTICALLY BLOWN ASPHALT SEALER	182	POLYURETHANE JOINT SEALANT	189
CATTLE GUARD	202	PREFABRICATED MASONRY PADS	146
CHAIN LINK FABRIC	113	PREFORMED POLYETHYLENE JOINT FILLER	147
CHAIR/BOLSTER	114	PVC-COAL TAR ELASTIC TYPE JOINT SEALER	148
CLEANING COMPOUND	194	RAIL SLEEVE COUPLING	149
CLOTH	115	RAISED PAVEMENT MARKERS	150
CONCRETE COMPRESSION TEST	193	ROOFING FELT	151
CONCRETE CYLINDER MOLDS	116	RUBBER GASKET	152
CONCRETE PIPE	195	SIGNING MATERIAL	153
CREOSOTE	183	SILICONE ADDITIVE	173
CURING COMPOUND	117	SOLVENT	190
DEFORMED WELDED WIRE FABRIC	118	SPECIAL CONCRETE MASONRY FINISH	154
DIESEL FUEL	174	STAPLES	155
DOWEL BAR	175	STARLUG ASSEMBLY	156
DOWEL RACK ASSEMBLY	119	STEEL	157
ELASTOMERIC BRIDGE BEARING PAD	120	STEEL FENCE POST	158
ELASTOMERIC COMPRESSION JOINT SEAL	121	STEEL PIPE	159
EPOXY	122	STEEL SHEETING	160
EPOXY ADHESIVE FOR PAVEMENT MARKERS	123	STEEL SIGN POST	161
EXPANDED METAL (CARBON STEEL)	184	STRETCHER BAR	162
FAERIC BAND	124	TEMPORARY PAVEMENT MARKING TAPE	163
FENCE POST	125	TENSION WIRE	164
FENCE POST CAP	126	TOILET TISSUE	191
FERTILIZER	127	TOP RAIL	165
FIBERGLASS ROVING	128	TORQUE WRENCH CALIBRATION	166
FLEXIBLE PLASTIC GASKET	129	TOTAL ASH CONTENT	172
FORM RELEASE AGENT	203	TRAFFIC CONES	192
FUEL OIL	179	TRAFFIC PAINT	197
GREASE	185	UNDERSEALING ASPHALT	167
GROUND ROD ASSEMBLY	177	VITRIFIED CLAY PIPE	201
HERBICIDES - BRUSH AND WEED KILLER	178	WASHERS	168
HOT POURED ELASTIC TYPE JOINT SEALER	130	WATER	169
HYDRAULIC JACK CALIBRATION	131	WIRE ROPE	170
INDUSTRIAL WIPER	186	WIRE TIES	171
JOINT FILLER	132	ZINC COATED STEEL WIRE STRAND	204
LIME	133		
LUBRICANT ADHESIVE	134		
MANHOLE STEPS	135		
MECHANICAL BUTT SPLICE-REBAR	187		