DEVELOPMENT OF AN AUTOMATED PRE-SAMPLING PLAN FOR CONSTRUCTION PROJECTS

FINAL REPORT

BY

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ABSTRACT

The development of an automated pre-sampling plan was undertaken to free the district construction personnel from the cumbersome and time-consuming task of preparing such plans manually. A computer program was written and linked to a data file which contained the information needed by the program to develop such an automated plan.

This report documents the development of the program and the final output of the automated pre-sampling plan.

METRIC CONVERSION FACTORS*

| To Convert from | <u>To</u> | Multiply by | | | | |
|--|--|--|--|--|--|--|
| | Length | | | | | |
| foot inch yard mile (statute) | <pre>meter (m) millimeter (mm) meter (m) kilometer (km)</pre> | 0.3048 25.4 0.9144 1.609 | | | | |
| | Area | | | | | |
| square foot square inch square yard | square meter (m ²) square centimeter (cm ²) square meter (m ²) | 0.0929 6.451 0.8361 | | | | |
| | Volume (Capacity) | | | | | |
| <pre>cubic foot gallon (U.S. liquid)** gallon (Can. liquid)** ounce (U.S. liquid)</pre> | cubic meter (m³) cubic meter (m³) cubic meter (m³) cubic centimeter (cm³) | 0.02832 0.003785 0.004546 29.57 | | | | |
| <u>Mass</u> | | | | | | |
| ounce-mass (avdp) pound-mass (avdp) ton (metric) ton (short, 2000 lbs) | gram (g) kilogram (kg) kilogram (kg) kilogram (kg) | 28.35 0.4536 1000 907.2 | | | | |
| | Mass per Volume | | | | | |
| <pre>pound-mass/cubic foot pound-mass/cubic yard pound-mass/gallon (U.S.)** pound-mass/gallon (Can.)**</pre> | kilogram/cubic meter (kg/m³) kilogram/cubic meter (kg/m³) kilogram/cubic meter (kg/m³) kilogram/cubic meter (kg/m³) | 16.02 0.5933 19.8 99.78 | | | | |
| Temperature | | | | | | |
| deg Celsius (C) deg Fahrenheit (F) deg Fahrenheit (F) | kelvin (K) kelvin (K) deg Celsius (C) | $t_k = (t_c + 273.15)$ $t_k = (t_F + 459.67)/1.8$ $t_c = (t_F - 32)/1.8$ | | | | |

^{*}The reference source for information on SI units and more exact conversion factors is "Metric Practice Guide" ASTM E 380.

^{**}One U.S. gallon equals 0.8327 Canadian gallon.

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INTRODUCTION

As a part of the construction process, the district construction personnel are required to prepare a sampling plan upon receipt of plans and contract for a project. This sampling plan is a list of materials to be sampled for a given contract item, and the minimum number of documents or samples required to insure the alequacy of the sampling and testing frequencies and quality control requirements defined by the contract. This plan is presently developed manually by the Project Engineer and the District Laboratory Engineer checking each item in the contract against sampling requirements for that item as listed in the Materials Sampling Manual (1)*. This nanual is a list of each contract item showing all documents and/or tests required to insure adequate quality control of the materials used to construct the item. The time and effort required in the preparation of this plan is directly associated with the length or size of the project. The larger the project in terms of items, the more complex and time-consuming the effort. This report relates the findings of a study to automate the process of developing the sampling plan for quality assurance.

^{*}Underlined numbers in parentheses refer to entries in the Bibliography section of this report.

OBJECTIVE

The major objective of this project was to develop an off-line computer-oriented system that would generate a pre-sampling plan based on contract items.

SCOPE

The scope of the project involved:

- 1. Observation of current practices in developing pre-sampling plans.
- 2. Developing and testing a computer system to create presampling plans.
- 3. Implementing a computer system.

METHOD OF PROCEDURE

Before actual work could begin on the automated pre-sampling plan, a guide had to be found by which to create the plan. Representatives of the Data Analysis Unit of La. DOTD went out to the various district offices to obtain examples of sampling plans from their engineers.

All of these plans varied in style and format, but all were basically the same in terms of the general information they contained. The guide which the engineering personnel used to obtain this information was the Materials Sampling Manual.

The <u>Materials Sampling Manual</u> is published by the Department and reflects the schedule of bid items, shown in Appendix A. The schedule contains a list of all sections and items that can be included in a contract (2). The manual contains only those sections and items that are subjected to some type of sampling during the construction life of a project. A list of these is shown in Appendix B.

There are basically six types of samples taken during the construction of a project. These are: (1) acceptance, (2) design, (3) project control, (4) preliminary source test, (5) record test, and (6) verification. Of the six, the most important is the acceptance sampling. It is defined as a "determination of conformance to contract requirements or specifications." (1) It is this type of sampling that determines the percentage pay for a contract item. Because of its importance, acceptance sampling was the initial choice for the sampling in the automated pre-sampling plan. To insure "project control" the project control sampling was also included. Additionally, the district laboratory engineers encouraged the inclusion of the design, record test and verification sampling in the plan. With a guide and a list of what to include, the actual program work could now begin.

The first step was to establish the format of the program and then to develop any needed formulas. This was to be done section by section. Section 501, Asphaltic Concrete Mixtures, was chosen first for two reasons. These reasons are: (1) the section is one of the largest, and (2) it is one of the most widely used.

The formatting was done by the author and is basically the same for all the sections. The formats were designed to be easy to read and to contain all information pertinent to the section.

The formulas that were derived came from several sources. The first of these was a list of sampling plan factors; see Appendix C. The second was dialogue with members of the La. DOTD Bituminous Research Unit. The third source was the <u>Materials Sampling Manual</u>. Section 501 of this manual is shown in Appendix D. The manual dictates the frequency with which the varying materials making up the item are to be sampled. The list of sampling plan factors is used to convert from one unit to another.

When the program was finished, a source for the information the program would require was sought. The program would need the item number, the quantity of the item, the contract and project number of the item, the Federal Aid Project (F.A.P.) number, the funding and the description of the project. La. DOTD has a computer system under the name of the Construction Estimates System which contains all this information.

The program was designed to print out a pre-sampling plan for each new project. When it starts a new project, it prints out the information unique to that project, this information being the contract number, the F.A.P. number, the funding and the project description.

As a verification of the usefulness of the program, nine pre-sampling plans of actual projects were generated. There was one plan for each

of the DOTD districts. These were given to each of the respective district laboratory engineers with the understanding that the engineers were to examine the plans and make comments on changes which they would like. When these comments were received, the finalization of the program was begun.

Originally the program was written in FORTRAN. This was later changed to SAS $(\underline{4})$ due to several factors, the main ones being: (1) SAS handles information more efficiently, and (2) changes to the program are simpler in SAS. The use of SAS makes the program very flexible and easy to update whenever it is necessary. This literally makes the program incapable of being outdated if work is maintained on it.

COMPUTATION OF NUMBER OF SAMPLES FOR AN ITEM

An example of sample computation is asphalt cement (AC). This material is sampled "1/transport" while the quantity of asphaltic concrete is given in tons. From the list of sampling plan factors the conversion of Types 1 and 3 asphaltic concrete to gallons of AC is found. This formula is:

13.50 x (tons of asphaltic concrete) = gallons of AC

Now the number of gallons which a transport can carry is needed.

Consulting the Bituminous Research Unit, it was found that a

transport can carry approximately 6500 gallons. From this
information came the formula:

(gallons of AC)/6500 = number of samples required

A worked example using the quantity of asphaltic concrete from contract number 451-30-06 is shown in Appendix E. (The presampling plan for this contract is shown in Appendix F.)

The entire development of the program used the same three sources:

(1) the <u>Materials Sampling Manual</u>, (2) the list of sampling plan factors, and (3) the expertise of personnel within La. DOTD.

The formulas are documented within the program in the form of comment statements. These comments do not show the source of the formulas, but they do explain what the formulas do.

RESULTS

The automated pre-sampling plan is designed to do several things. It will print out a header sheet for each new project it encounters. On this header sheet are printed the contract number, the project number, the Federal Aid Project (F.A.P.) number, the funding and the description of the project. An example of a header sheet is shown in Figure 1 on page 9.

A typical output is shown in Figure 2 on page 10. The "material" and the "frequency" depend upon the item being sampled. The quantity of the item is printed, as are the units of the quantity. Also printed is the purpose of the testing and the number of samples required or the type of certificates required. The number of samples taken may be determined by the judgment of the engineer. In Appendix F there is a pre-sampling plan for a contract.

The overall automated pre-sampling plan is to deliver the plan to the districts when they receive the contracts on projects within that district. These plans will save the district personnel much time and free them for other duties. A flowchart showing the comparison of how the manual and computer generated plans are developed is shown in Figure 3 on page 11. Comparative evaluation of time for the two plans shows that it requires several hours or even days for the manual plan as compared to several minutes for the computer generated plan.

The plan is basically a simple one. A flowchart which shows the basics of how the program generates the sampling plans is shown in Figure 4 on page 12. This is a generalized plan as the actual program is a lot more detailed.

Copies of the sampling plan program are available in SAS. The program is self-explanatory and contains complete documentation regarding the generation of the plan and the associated formulas

utilized in the computations. Enhancements could be easily made if changes are encountered as a result of revisions in the specifications. Copies of the program are also available in FORTRAN; however, the documentation is not as comprehensive as the SAS program.

THIS IS THE SAMPLING PLAN FOR

CONTRACT NUMBER 451-30-06 AND

PROJECT NUMBER 451-30-06

LOCATED AT

THE F.A.P. NUMBER 1S 220-1(073)012

AND

THE FUNDING IS I

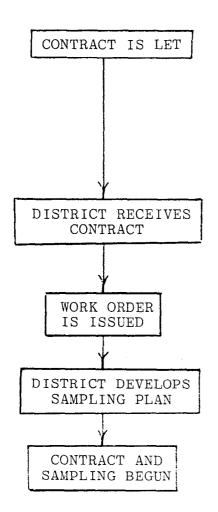
Header Sheet

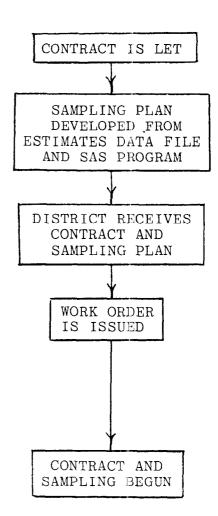
FIGURE 1

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED | ES 38 TAKEN |
|---|--------------------------|------------------|-------------------|----------------|
| ITEM 701(13) Q REINFORCED CONCRETE PIPE 1242.00 L GO" DIA | NO OF SAMPLES MAY BE CHA | ANGED ON THE JUI | DGEMENT OF THE EI | NGR |
| ASBESTOS CEMENT PIPE | VISUAL INSPECTION BY PE | ACCEPTANCE | сс з | |
| BACKEILL (SOIL) | SEE ITEM 723(2) | | | |
| BEDDING MATERIAL | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| CAST IRON PIPE | VISUAL INSPECTION BY PE | | сс э | |
| CONCRETE PIPE | | | | |
| NONREINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY PE | | CD 1 8 7 | |
| CONDUIT PLUG | VISUAL INSPECTION BY PE | ACCEPTANCE | | a a |
| GASKET MATERIAL (FOR PIPE) | | | | |
| FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 | |
| RUBBER GASKETS | | ACCEPTANCE | CA 7 | |
| SEALANTS O | | ACCEPTANCE | QPL 4 | |
| METAL PIPE | | | | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 8 7 | |
| BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 8 7 | |
| STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 8 7 | |
| VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | | |

Typical Output

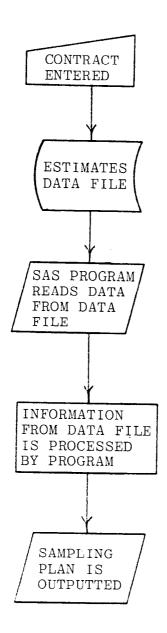
FIGURE 2





Comparison of
Manual Development to Computer Development
of a Sampling Plan

FIGURE 3



Flowchart of Sampling Plan Procedure

FIGURE 4

CONCLUSIONS AND RECOMMENDATIONS

An automated pre-sampling plan has been developed into a computer program. This program was developed to free the district construction personnel from developing such plans by hand. The program draws its information from the Construction Estimate computer files of La. DOTD. From this information the program prints out the presampling plan for each project. The entire process takes no more than a couple of minutes.

Due to the time saved in the development of the pre-sampling plan, it is recommended that the program be put into everyday use. The plans should be generated at the start of each project and additional plans generated with each revision to the project. It is further recommended that the plan generation should be the responsibility of the section which first sees the contract.

BIBLIOGRAPHY

- 1. Materials Sampling Manual, published by State of Louisiana
 Department of Transportation and Development, Office of Highways,
 April, 1982.
- 2. Highway Specifications Workbook, published by State of Louisiana Department of Transportation and Development, Office of Highways, Baton Rouge, March, 1982.
- 3. Louisiana Standard Specifications for Roads and Bridges, published by State of Louisiana Department of Transportation and Development, Office of Highways, Baton Rouge, 1977 Edition.
- 4. SAS User's Guide, published by SAS Institute Inc., Cary, North Carolina, 1979 Edition.

APPENDIX A

SCHEDULE OF BID ITEMS

SCHEDULE OF BID ITEMS - 1977 STANDARD SPECIFICATIONS

| SECTION 201 - CLEARING AND GRUBBING | Item No. | Pay Item | Pay Unit | Decima |
|--|-------------------------|--|----------------------|----------------|
| 201(1) Clearing and Grubbing Lump Sum Lump Sum Lump Sum Lump Sum Lump Sum Lump Sum Atrports 201(1) Clearing and Grubbing Acre 201(2) Selective Clearing and Grubbing Acre Clearing Acre SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS 202(1) Removal of Structures and Obstructions Lump Sum 202(2) Removal of Lump Sum, Square Yard 202(2)(A) Removal of Bridges Each 202(2)(B) Removal of Concrete Box Culverts Each 202(2)(C) Removal of Portland Cement Concrete Pavement Square Yard 202(2)(C) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs 202(2)(F) Removal of Concrete Combination Curb and Gutter 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | SECTION 201 - CLEARING AND GRUBBING | ; | |
| 201(2) Selective Clearing and Grubbing Lump Sum Atrports 201(1) Clearing and Grubbing Acre 201(2) Selective Clearing and Grubbing Acre 201(3) Clearing Acre SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS 202(1) Removal of Structures and Obstructions 202(2) Removal of Each, Linear Foot, Lump Sum, Square Yard 202(2)(A) Removal of Bridges 202(2)(B) Removal of Concrete Box Culverts 202(2)(C) Removal of Portland Cement Concrete Pavement 202(2)(D) Removal of Concrete Walks and Drives 202(2)(E) Removal of Concrete Curbs 202(2)(F) Removal of Concrete Combination Curb and Gutter 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | a section of the second | | | |
| Airports 201(1) Clearing and Grubbing Acre 201(2) Selective Clearing and Grubbing Acre SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS 202(1) Removal of Structures and Obstructions Lump Sum 202(2) Removal of Each, Linear Foot, Lump Sum, Square Yard 202(2)(A) Removal of Concrete Box Culverts Each 202(2)(B) Removal of Concrete Walks and Drives Square Yard 202(2)(B) Removal of Concrete Walks and Drives Square Yard 202(2)(C) Removal of Concrete Curbs Linear Foot 202(2)(C) Removal of Concrete Curbs Square Yard 202(2)(C) Removal of Concrete Curbs Linear Foot 202(2)(C) Removal of Concrete Combination Curb and Cutter Linear Foot 202(2)(C) Removal of Surfacing and Stabilized Base Square Yard | | | Lump Sum | _ |
| Clearing and Grubbing 201(2) Selective Clearing and Grubbing Acre Clearing SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS Removal of Structures and Obstructions Removal of Bridges 202(2) Removal of Bridges 202(2)(A) Removal of Concrete Box Culverts 202(2)(B) Removal of Portland Cement Concrete Pavement 202(2)(C) Removal of Concrete Walks and Drives 202(2)(E) Removal of Concrete Curbs 202(2)(F) Removal of Concrete Combination Curb and Cutter Linear Foot Linear Foot Linear Foot Square Yard Linear Foot Linear Foot Linear Foot Linear Foot Linear Foot Square Yard | 201(2) | Selective Clearing and Grubbing | Lump Sum | - |
| Selective Clearing and Grubbing Clearing SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS 202(1) Removal of Structures and Obstructions Removal of Bridges 202(2) Removal of Bridges 202(2)(A) 202(2)(B) Removal of Concrete Box Culverts 202(2)(C) Removal of Portland Cement Concrete Pavement 202(2)(C) Removal of Concrete Walks and Drives 202(2)(E) Removal of Concrete Curbs 202(2)(F) Removal of Concrete Combination Curb and Gutter 202(2)(C) Removal of Surfacing and Stabilized Base Section Acre Acre Acre Acre Acre Acre Acre Acre | | | | |
| Clearing SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS 202(1) Removal of Structures and Obstructions Each, Linear Foot, Lump Sum, Square Yard Each, Linear Foot, Lump Sum, Square Yard 202(2)(A) Removal of Bridges 202(2)(B) Removal of Concrete Box Culverts Each 202(2)(C) Removal of Portland Cement Concrete Pavement 202(2)(C) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | * * | _ | Acre | 2 |
| SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS 202(1) Removal of Structures and Obstructions Lump Sum Each, Linear Foot, Lump Sum, Square Yard 202(2)(A) Removal of Bridges Each 202(2)(B) Removal of Concrete Box Culverts Each 202(2)(C) Removal of Portland Cement Concrete Pavement Square Yard 202(2)(D) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | Selective Clearing and Grubbing | Acre | 2 |
| 202(1) Removal of Structures and Obstructions 202(2) Removal of Each, Linear Foot, Lump Sum, Square Yard 202(2)(A) Removal of Bridges 202(2)(B) Removal of Concrete Box Culverts 202(2)(C) Removal of Portland Cement Concrete Pavement 202(2)(D) Removal of Concrete Walks and Drives 202(2)(E) Removal of Concrete Curbs 202(2)(F) Removal of Concrete Combination Curb and Cutter 202(2)(C) Removal of Concrete Combination Curb and Cutter 202(2)(C) Removal of Surfacing and Stabilized Base Lump Sum Each, Linear Foot, Lump Sum, Square Yard Each Square Yard Each Square Yard Square Yard Square Foot Linear Foot Square Yard | 201(3) | Clearing | Acre | 2 |
| Removal of | | SECTION 202 - REMOVAL OF STRUCTURES AND OBS | STRUCTIONS | |
| Lump Sum, Square Yard 202(2)(A) Removal of Bridges Each 202(2)(B) Removal of Concrete Box Culverts Each 202(2)(C) Removal of Portland Cement Concrete Pavement Square Yard 202(2)(D) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | 202(1) | Removal of Structures and Obstructions | Lump Sum | _ |
| 202(2)(A) Removal of Bridges Each 202(2)(B) Removal of Concrete Box Culverts Each 202(2)(C) Removal of Portland Cement Concrete Pavement Square Yard 202(2)(D) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | 202(2) | Removal of | Each, Linear Foot, | |
| 202(2)(B) Removal of Concrete Box Culverts Each 202(2)(C) Removal of Portland Cement Concrete Pavement Square Yard 202(2)(D) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | | Lump Sum, Square Yar | d - |
| 202(2)(C) Removal of Portland Cement Concrete Pavement Square Yard 202(2)(D) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | Removal of Bridges | Each | - |
| 202(2)(D) Removal of Concrete Walks and Drives Square Yard 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | Removal of Concrete Box Culverts | Each | - |
| 202(2)(E) Removal of Concrete Curbs Linear Foot 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | Removal of Portland Cement Concrete Pavement | Square Yard | 1 |
| 202(2)(F) Removal of Concrete Combination Curb and Gutter Linear Foot 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | | Square Yard | 1 |
| 202(2)(G) Removal of Surfacing and Stabilized Base Square Yard | | Removal of Concrete Curbs | Linear Foot | 1 |
| | | | | 1 |
| 202(2)(H) Removal of Guard Rail Linear Foot | | - | | 1 |
| | | | | 0 |
| 202(3) Hauling Salvaged Material Lump Sum | 202(3) | Hauling Salvaged Material | Lump Sum | _ |

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SECTION 203 - EXCAVATION AND EMBANKMENT

| 203(1) | Unclassified Excavation | Cubic Yard | 0 |
|--------|--|-------------------|--------|
| 203(2) | Drainage Excavation | Cubic Yard | 0 |
| 203(3) | Muck Excavation | Cubic Yard | 0 |
| 203(4) | Embankment in Place | Cubic Yard | . 0 |
| 203(5) | Special Embankment (Nonplastic) in Place | Cubic Yard | 0 |
| 203(6) | Excavation and Embankment | Station, Lump Sum | 2 or 0 |
| 203(7) | Borrow (Vehicular Measurement) | Cubic Yard | 0 |

| Item No. | Pay Item | Pay Unit | Decimals |
|-----------|---|----------------------------|----------|
| | SECTION 204 - TEMPORARY EROSION CONTROL | | |
| 204(1) | Mulching (Temporary) | Square Yard | 1 |
| 204(2)(A) | Grassing (Temporary) | Pound | 0 |
| 204(3) | Sandbagging (Temporary) | Cubic Yard | 1 |
| 204(4) | Baled Hay (Temporary) | Ton | 2 |
| 204(5) | Slope Drains (Temporary) | Linear Foot | 1 |
| 204(6) | Sediment Basins | Each | - |
| 204(7) | Sediment Check Dams | Each | _ |
| 204(8) | Silt Fencing | Linear Foot | 0 |
| | SECTION 301 - BASE COURSE | | |
| 301(1) | Base Course | Cubic Yard, Square Yard | 1 |
| 301(2) | Sterilization of Shoulder Base Course | Square Yard | 0 |
| ~ | SECTION 302 - SCARIFYING AND COMPACTING ROA | DBED | |
| HI ghways | | | |
| 302(1) | Scarifying and Compacting Roadbed | Mile | 3 |
| Airports | | | |
| 302(1) | Scarifying and Compacting Roadbed | Square Yard | 1 |
| | SECTION 303 - IN-PLACE CEMENT STABILIZED BASE | COURSE | |
| 303(1) | In-Place Cement Stabilized Base Course (" Thick) | Square Yard | 1 |
| | SECTION 304 - LIME TREATMENT | | |
| 304(1) | Lime | Ton | 2 |
| 304(2) | Lime Treatment (Type A)("Thick) | Square Yard | 1 |
| • • | | • | - |

1

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| Item No. | | Pay Item | Pay Unit | Decimals | | | |
|--|---|--|---------------|----------|--|--|--|
| | | SECTION 304 - LIME TREATMENT (Cont'd) | | | | | |
| | 304(3) | Lime Treatment (Type B)("Thick) | Square Yard | 1 | | | |
| | 304(4) | Lime Treatment (Type C)("Thick) | Square Yard | 1 | | | |
| | 304(5) | Lime Treatment (Type D)("Thick) | Square Yard | 1 1 | | | |
| | 304(6) | Lime (Type E Treatment) | Ton | 2 | | | |
| | | SECTION 305 - SUBBASE TREATMENT | | | | | |
| | 305(1) | Subbase Treatment (" Thick) | Square Yard | 1 | | | |
| | | SECTION 401 - AGGREGATE SURFACE COURSE | | | | | |
| | 401(1) | Aggregate Surface Course (Net Section) | Cubic Yard | 1 | | | |
| | 401(2) | Aggregate Surface Course (Adjusted Vehicular Measurement) | Cubic Yard | 0 | | | |
| 19 | SECTION 501 - ASPHALTIC CONCRETE MIXTURES | | | | | | |
| | 501(1) | Asphaltic Concrete (Course) | Ton | 1 | | | |
| | 501(2) | Asphaltic Concrete (Course) | Cubic Yard | 1 | | | |
| | 501(3) | Asphaltic Concrete (Course)("Thick) | Square Yard | 1 | | | |
| | 501(4) | Mineral Filler (Commercial Grade) | Ton | 1 | | | |
| Letter designation shall be used for the various courses as follows: A - Wearing Course $B \sim Binder$ Course | | | | | | | |
| Example: Item 501(1)(B), Asphaltic Concrete (Binder Course) C - Base Course | | | | | | | |
| | | SECTION 502 - ASPHALTIC CONCRETE FRICTION COU | RSE | | | | |
| | 502(1)(A) | Asphaltic Concrete Friction Course (Exp. Clay, Slag or Stone |) Square Yard | 1 | | | |

| | Item No. | Pay Item | Pay Unit | Decimals |
|----|---------------------|---|----------------------------|----------|
| | | SECTION 503 - TACK COAT | | |
| | 503(1) | Tack Coat | Gallon | 0 |
| · | (This is normally " | No Direct Pay" work - do not use this item for routine | construction) | |
| | | SECTION 504 - PRIME COAT | | |
| | 504(1) | Prime Coat | Gallon | 0 |
| | (This is normally " | No Direct Pay" work - use this item only with recompact | ed existing base course) | |
| | | SECTION 505 - ASPHALTIC SURFACE TREATME | NT | |
| | 505(1) | Asphalt | Gallon Gallon | 0 |
| | 505(2) | Coarse Aggregate (Size 1) | Cubic Yard | 0 |
| 20 | 505(3) | Fine Aggregate (Size 2) | Cubic Yard | 0 |
| | 505(4) | Seal Coat Aggregate (Size 3) | Cubic Yard | 0 |
| | | SECTION 601 - PORTLAND CEMENT CONCRETE | PAVEMENT | |
| | 601(1)(A) | Portland Cement Concrete Pavement (6" Thick) | Square Yard | 1 |
| | 601(1)(B) | Portland Cement Concrete Pavement (7" Thick) | Square Yard | 1 |
| | 601(1)(C) | Portland Cement Concrete Pavement (8" Thick) | Square Yard | 1 |
| | 601(1)(D) | Portland Cement Concrete Pavement (9" Thick) | Square Yard | 1 |
| | 601(1)(E) | Portland Cement Concrete Pavement (10" Thick) | Square Yard | 1 |
| | 601(1)(-)(1) | Portland Cement Concrete Pavement (Thick) | 0 V 1 | • |
| | | (Turnouts and Crossovers) | Square Yard | 1 |
| | 601(2) | Portland Cement Concrete Pavement (Thick) | Causes Vard | 1 |
| | (01/01 | (Continuously Reinforced) | Square Yard Linear Foot | 1 1 |
| | 601(3) | Wide Flange Installations | Pound | 0 |
| | 601(4) | Bar Reinforcing | Pound | 0 |
| | 601(5) | Fabric Reinforcing | Logitu | ~ |

| Item No. | Pay Item | Pay Unit | Decimals |
|----------------------|---|-------------|----------|
| · | SECTION 701 - CULVERTS AND STORM DRAINS | | |
| 701(1) | Structural Plate Pipe (Size) | Linear Foot | 0 |
| 701(2) | Structural Plate Pipe Arch (Size) | Linear Foot | 0 |
| 701(3) | Corrugated Steel Pipe (Size) | Linear Foot | 0 |
| 701(4) | Corrugated Steel Pipe Arch (Size) | Linear Foot | 0 |
| 701(5) | Bituminous Coated Corrugated Steel Pipe (Size) | Linear Foot | 0 |
| 701(6) | Bituminous Coated Corrugated Steel Pipe Arch (Size) | Linear Foot | 0 |
| 701(7) | Asbestos Bonded Corrugated Steel Pipe (Size) | Linear Foot | 0 |
| 701(8) | Asbestos Bonded Corrugated Steel Pipe Arch (Size) | Linear Foot | 0 |
| 701(9) | Asbestos Bonded Corrugated Steel Pipe (Size)(Smooth Lined) | Linear Foot | 0 |
| 701(10) | Asbestos Bonded Corrugated Steel Pipe Arch (Size)(Smooth Lined) | Linear Foot | 0 |
| 701(11) | Corrugated Aluminum Pipe (Size) | Linear Foot | 0 |
| 701(12) | Corrugated Aluminum Pipe Arch (Size) | Linear Foot | 0 |
| [№] 701(13) | Reinforced Concrete Pipe (Size) | Linear Foot | 0 |
| 701(14) | Reinforced Concrete Pipe Arch (Size) | Linear Foot | 0 |
| 701(15) | Concrete Sewer Pipe (Size) | Linear Foot | 0 |
| 701(16) | Vitrified Clay Pipe (Size) | Linear Foot | 0 |
| 701(17) | Asbestos Cement Pipe (Size) | Linear Foot | 0 |
| 701(18) | Cast Iron Pipe (Size) | Linear Foot | 0 |
| 701(19) | Culvert Pipe (Size) | Linear Foot | 0 |
| 701(20) | Pipe Arch (Size) | Linear Foot | 0 |
| 701(21) | Pipe Conduit (Sizes and Types) | Linear Foot | 0 |
| 701(22) | Pipe Arch Conduit (Sizes and Types) | Linear Foot | 0 |
| 701(23) | Corrugated Metal Pipe (Size) | Linear Foot | 0 |
| 701(24) | Corrugated Metal Pipe Arch (Size) | Linear Foot | 0 |
| 701(25) | Relaying Conduit | Linear Foot | 0 |
| 701(26) | Conduit Backfill | Cubic Yard | 0 |
| 701(27) | Fabricating Conduit Fittings | Each | - |
| 701(28) | Slotted Drain Pipe (Size) | Linear Foot | 0 |

LETTER DESIGNATION SYSTEM FOR NEW PIPE ARCH DIMENSIONS

SECTION 701 - CULVERTS AND STORM DRAINS (Cont'd)

Letter Designations shall be used for the various pipe sizes as follows.

| Circular Pipe (Inches) | Arch Pipe (Inches) |
|------------------------|--|
| | Metal (CMPA) Concrete Equivalent Letter |
| 4A 42N | 1/2" Corr. 1" Corr. (RCPA) Diameter Designation |
| 6B 480 | $17x13 \dots - 18x11 \dots 15 \dots \Lambda$ |
| 8c 54p | 21×15 $ 22 \times 13$ 18 B |
| 10D 60Q | 24x18 $26x15$ 21 C |
| 12E 66R | $28 \times 20 \dots - 28 \times 18 \dots 24 \dots D$ |
| 15F 72S | 35x24 = $36x22$ 30 E |
| 18G 78T | $42x29 \dots 40x31 \dots 43x26 \dots 36 \dots F$ |
| 21U 84U | $49x33 \dots 46x36 \dots 51x31 \dots 42 \dots G$ |
| 24I 90V | $57 \times 38 \dots 53 \times 41 \dots 58 \times 36 \dots 48 \dots H$ |
| 27J 96W | $64x43 \dots 60x46 \dots 65x40 \dots 54 \dots 1$ |
| 30K 102X | $71 \times 47 \dots 66 \times 51 \dots 73 \times 45 \dots 60 \dots J$ |
| 33L 108Y | $77 \times 52 \times \times 73 \times 55 \times \times 66 \times \times K$ |
| 36M 114Z | $83x57 \dots 81x59 \dots 88x54 \dots 72 \dots L$ |
| | 87x63 78 M |
| | $95x67$ $102x62$ 84 N |
| | $103x71$ $115x72$ 90 0 |
| | 112x75 122x77 96 P |
| | $117x79$ 102 Q |
| | 128x83 138x87 108 R |
| | 137x87 114 S |
| | $142x91$ $154x96$ 120 T |

Examples: Item 701(13)(I), Reinforced Concrete Pipe (24")

Item 701(14)(F), Reinforced Concrete Pipe Arch (36" Equiv.)

Item 701(20)(B), Pipe Arch (18" Equiv.)

Item 701(21)(K-M), Pipe Conduit (30" RCP or 36" CMP)

Item 701(22)(D-E), Pipe Arch Conduit (24" Equiv. RCPA or 30" Equiv. CMPA)

Item 701(24)(H), Corrugated Metal Pipe Arch (48" Equiv.)

LETTER DESIGNATION SYSTEM FOR OLD PIPE ARCH DIMENSIONS

SECTION 701 - CULVERTS AND STORM DRAINS (Cont'd)

Letter Designations shall be used for the various pipe sizes as follows.

| Circular Pipe | | | | Arch Pipe | | |
|---------------|--------|------|-------|-----------|----------|-----------|
| 4" | 21"Н | 48"0 | 84"U | 18"x11"A | 50"x31"G | 91"x64"M |
| 6"B | 24"I | 54"P | 90"V | 22"x13"B | 58"x36"H | 99"x67"N |
| 8"C | 27"J | 60"Q | 96"W | 25"x16"C | 65"x40"I | 105"x72"0 |
| 10"D | 30"K | 66"R | 102"X | 29"x18"D | 72"x44"J | 111"x79"P |
| 12"E | 33"L | 72"S | 108"Y | 36"x22"E | 74"x55"K | 118"x82"Q |
| 15"F | 36"M | 78"T | 114"z | 43"x27"F | 83"x60"L | 125"x87"R |
| 18" C | 7.2" N | | | | | |

Examples: Item 701(13)(I), Reinforced Concrete Pipe (24")

Item 701(20)(B), Pipe Arch (22"x13")

Item 701(21)(K-M), Pipe Conduit (30" RCP or 36" CMP)

Item 701(21)(D-E), Pipe Arch Conduit (29"x18" RCPA or 36"x22" CMPA)

CORRELATION TABLE FOR OLD AND NEW PIPE ARCH DIMENSIONS (INCHES)

| | | STEEL PI | PE ARCII | | ALUMINUM PI | PE ARCH |
|--------|-----------|----------|----------|----------|----------------|---------|
| Round | 2 2/3 x 1 | /2 Corr. | 3 x 1 0 | Corr. | 2 2/3 x 1/ | 2 Corr. |
| Equiv. | OLD | NEW | OLD | NEW | OLD | NEW |
| 15 | 18 x 11 | 17 x 13 | | | 18 x 11 | 17 x 13 |
| 18 | 22 x 13 | 21 x 15 | ſ | | 22 x 13 | 21 x 15 |
| 21 | 25 x 16 | 24 x 18 | | 1 | 25 x 16 | 24 x 18 |
| 24 | 29 x 18 | 28 x 20 | 1 | 1 | 29 x 18 | 28 x 20 |
| 30 | 36 x 22 | 35 x 24 | 1 | 1 | 36 x 22 | 35 x 24 |
| 36 | 43 x 27 | 42 x 29 | 43 x 27 | 40 x 31 | 43 x 27 | 42 x 29 |
| 42 | 50 x 31 | 49 x 33 | 50 x 31 | 46 x 36 | 50 x 31 | 49 x 33 |
| 48 | 58 x 36 | 57 x 38 | 58 x 36 | 53 x 41 | 58 x 36 | 57 x 38 |
| 54 | 65 x 40 | 64 x 43 | 65 x 40 | 60 x 46 | 65 x 40 | 64 x 43 |
| 60 | 72 x 44 | 71 x 47 | 72 x 44 | 66 x 51 | 72 x 44 | 71 × 47 |
| 66 | 79 x 49 | 77 x 52 | 73 x 55 | 73 x 55 | - - | |
| 72 | 85 x 54 | 83 x 57 | 81 x 59 | 81 x 59 | 84 x 56 | 83 x 57 |
| 78 | , | J | 87 x 63 | 87 x 63 | | |
| 84 | 1 | 1 | 95 x 67 | 95 x 67 | | |
| 90 | i | . 1 | 103 x 71 | 103 x 71 | | |
| 96 | Í | İ | 112 x 75 | 112 x 75 | | |
| 102 | i | 1 | 117 x 79 | 117 x 79 | | |
| 108 | i | į | 128 x 83 | 128 x 83 | | |
| 114 | j | İ | 137 x 87 | 137 x 87 | | |
| 120 | İ | İ | 142 x 91 | 142 x 91 | İ | |

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| | Item No. | Pay Item | Pay Unit | Decimals |
|---|-----------|---|---------------|----------|
| | | SECTION 702 - MANHOLES, INLETS AND CATCH BASINS | | |
| | 702(1) | Junction Boxes | Each | _ |
| | 702(2) | Manholes | Each | - |
| | 702(3) | Inlets | Each | ~ |
| | 702(4) | Catch Basins | Each | - |
| | 702(5) | Adjusting | Each | _ |
| | 702(5)(A) | Adjusting Manholes | Each | - |
| | 702(5)(B) | Adjusting Catch Basins | Each | - |
| | 702(5)(C) | Adjusting Junction Boxes | Each | |
| | 702(5)(D) | Adjusting Inlets | Each | - |
| | | SECTION 703 - UNDERDRAINS | | |
| | 703(1) | Perforated Corrugated Steel Pipe (Size) | Linear Foot | 0 |
| _ | 703(2) | Perforated Bituminous Coated Corrugated Steel Pipe (Size) | Linear · Foot | 0 |
| 2 | 703(3) | Perforated Concrete Pipe (Size) | Linear Foot | 0 |
| | 703(4) | Perforated Asbestos Cement Pipe (Size) | Linear Foot | 0 |
| | 703(5) | Perforated Corrugated Aluminum Pipe (Size) | Linear Foot | . 0 |
| | 703(6) | Perforated Bituminized Fiber Pipe (Size) | Linear Foot | 0 |
| | 703(7) | Perforated Clay Pipe (Size) | Linear Foot | 0 |
| | 703(8) | Asbestos Cement Pipe (Size) | Linear Foot | 0 |
| | 703(9) | Bituminized Fiber Pipe (Size) | Linear Foot | 0 |
| | 703(10) | Perforated Plastic Pipe (Size) | Linear Foot | 0 |
| | 703(11) | Perforated Pipe Underdrains (Size) | Linear Foot | 0 |
| | 703(12) | Nonperforated Pipe Underdrains (Size) | Linear Foot | 0 |
| | | SECTION 704 - GUARD RAIL | | |
| | 704(1) | Guard Rail | Linear Foot | 1 |
| | 704(2) | Guard Rail (Double Faced) | Linear Foot | 1 |
| | 704(3) | Blocked Out Guard Rail | Linear Foot | 1 |
| | 704(4) | Blocked Out Guard Rail (Double Faced) | Linear Foot | 1 |
| | 704(5) | Guard Rail Anchor Sections (BCT) | Linear Foot | 1 |
| | | | | |

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| | Item No. | Pay Item | Pay Unit | Decimals |
|--------|------------------|--|-------------|----------|
| | | SECTION 704 - GUARD RAIL (Cont'd) | | |
| | 704(6) | Guard Rail Anchor Sections (Trailing End) | Linear Foot | 1 |
| | 704(7) | Guard Rail Bridge Attachments | Linear Foot | 1 . |
| | 704(8) | Guard Rail Transitions | Linear Foot | 1 |
| | | SECTION 705 - FENCES | , | |
| | 705(1) | Barbed Wire Fence | Linear Foot | 0 |
| | 705(2) | Combination Mesh and Barbed Wire Fence | Linear Foot | 0 |
| | 705(3) | Single Swinging Walk Gates | Each | |
| | 705(4) | Single Swinging Driveway Gates | Each | - |
| | 705(5) | Double Swinging Driveway Gates | Double Gate | - |
| | 705(6) | Chain Link Fence (-Foot Height) | Linear Foot | 0 |
| | 705(6)(A) | Chain Link Fence (4-Foot Height) | Linear Foot | 0 |
| | 705(6)(B) | Chain Link Fence (5-Foot Height) | Linear Foot | 0 |
|) 1 | 705(6)(C) | Chain Link Fence (6-Foot Height) | Linear Foot | 0 |
| • | 705(6)(D) | Chain Link Fence (7-Foot Height) | Linear Foot | . 0 |
| | 705(7) | - Foot Gates for Chain Link Fence (- Foot Height |) Each | - |
| | 705(7)(B) | 3-Foot Gates for Chain Link Fence (5-Foot Height) | Each | - |
| | 705(8) | Foot Double Gates for Chain Link Fence | Double Gate | - |
| | | (- Foot Height) | | |
| | 705(9) | Rebuilt Fence | Linear Foot | 0 |
| | | SECTION 706 - CONCRETE WALKS, DRIVES AND INCIDENTAL | PAVING | |
| | 706(1) | Concrete Walk (" Thick) | Square Yard | 1 |
| | 706(2) | Concrete Drive ("Thick) | Square Yard | 1 |
| | 706(3) | Incidental Concrete Paving (" Thick) | Square Yard | 1 |
| | Letter Designat: | ions for various thicknesses shall be used as follows: 4"A 5"B | | |
| | | 6"C | | |
| | | | | |

(Example) Item 706(2)(C), Concrete Drive (6" Thick)

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| Item No. | Pay Item | Pay Unit | Decimals |
|----------|---|-----------------|----------|
| | SECTION 707 - CURBS AND GUTTERS | | |
| 707(1) | Concrete Curb | Linear Foot | 1 |
| 707(2) | Concrete Gutter | Linear Foot | 1 |
| 707(3) | Combination Curb and Gutter | Linear Foot | 1 |
| 707(4) | Asphaltic Curb | Linear Foot | 1 |
| | SECTION 708 - RIGHT OF WAY MARKERS | 3 | |
| 708(1) | Right-of-Way Marker | Each | ~ |
| | SECTION 709 - STEEL RAIL CATTLE GUAR | RDS | |
| 709(1) | Steel Rail Cattle Guard | Each | - |
| | SECTION 710 - REMOVING, RELOCATING AND DEMOLISH | HING STRUCTURES | |
| 710(1) | Removing and Relocating Structures | Unit | - |
| 710(2) | Moving Structures | Structure Foot | 0 |
| 710(3) | Demolishing Structures | Unit | - |
| | SECTION 711 - RIPRAP | | |
| 711(1) | Random Riprap | Cubic Yard | 0 |
| 711(2) | Riprap for Sinking Mattresses | Ton | 2 |
| 711(3) | Heavy Deposited Riprap | Ton | 2 |
| | SECTION 712 - REVEIMENTS | | |
| 712(1) | Concrete Cast-in-Place Revetment ("Thick) | Square Yard | 0 |
| 712(2) | Cellular Concrete Block Revetment | Square Yard | 0 |
| 712(3) | Sacked Concrete Revetment | Square Yard | 0 |
| 712(4) | Stone Revetment | Square Yard | 0 |
| 712(5) | Flexible Revetment | Square Yard | 0 |
| | | | |

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| | Item No. | Pay Item | Pay Unit | Decimals |
|----|------------------|--|-----------------------|----------|
| | | SECTION 713 - TEMPORARY SIGNS, BARRICADES | AND PAVEMENT MARKINGS | |
| | 713(1) 713(2) | Temporary Signs and Barricades Temporary Pavement Markings | Lump Sum Lump Sum | - |
| | | | | |
| | | SECTION 714 - SLAB SODD | ING | |
| | 714(1) | Slab Sodding | Square Yard | 1 |
| | 714(2) | Water | M Gallons | 0 |
| | | SECTION 715 - TOPSOIL | | |
| | 715(1) | Topsoil | Cubic Yard | 0 |
| | | SECTION 716 - VEGETATIVE M | ULCII | |
| 27 | 716(1) | Vegetative Mulch | Ton | 2 |
| | 716(2) | Emulsified Asphalt | Gallon | 0 |
| | | SECTION 717 - SEEDING | | |
| | 717(1) | Seeding | Pound | 0 |
| | | SECTION 718 - FERTILIZER AND AGRIC | CULTURAL LIME | |
| | 718(1) | Fertilizer | Pound | 0 |
| | 718(2) | Agricultural Lime | Ton | 2 |
| | | SECTION 719 - LANDSCAPIN | IG . | |
| | 719(1) | Plants (Type, Size) | Each | _ |
| | 719(2) | Pine Bark Mulch ("Depth) | Square Yard | 1 |
| | 719(3) | Bed Preparation (Depth) | Square Yard | 1 |
| | | SECTION 720 - FIBER GLASS R | OVING | |
| | 720(1) | Fiber Glass Roving | Pound | 0 |
| | 720(2) | Asphaltic Material | Gallon | 0 |

| | Item No. | Pay Item | Pay Unit | Decimals |
|----------|------------------|--|--|----------|
| | | SECTION 721 - ASPHALT MULCH | | |
| | 721(1) | Asphalt Mulch | Gallon | 0 |
| | | SECTION 722 - FIELD LABORATORIES | | |
| | 722(1) | Project Site Laboratory | Each | - |
| | | SECTION 723 - GRANULAR MATERIAL | | |
| | 723(1) 723(2) | Granular Material (Net Section) Granular Material (Vehicular Measurement) | Cubic Yard Cubic Yard | 1 0 |
| | | SECTION 724 - PATCHING AND WIDENING PAVEMENTS | | |
| 22 28 | 724(1) 724(2) | Pavement Patching Pavement Widening | Square Yard Square Yard | 0 1 |
| | | SECTION 725 - TEMPORARY DETOUR ROADS AND BRIDGES | | |
| | 725(1) 725(2) | Temporary Detour Roads Temporary Detour Bridging | Linear Foot, Square Yard Linear Foot | 1 2 |
| | 163(2) | SECTION 726 - BEDDING MATERIAL | | |
| | 726(1) | Bedding Material | Cubic Yard | 1 |
| | 720(1) | SECTION 727 - MOBILIZATION | | _ |
| | | | | |
| | 727(1) | Mobilization | Lump Sum | - |
| | | SECTION 728 - JACKED OR BORED PIPE | | |
| | 728(1) | Jacked or Bored Pipe (size, type, class or thickness) | Linear Foot | 0 |

| | Item No. | Pay Item | Pay Unit | Decimals |
|----|------------|---|-------------|----------|
| | | SECTION 729 - TRAFFIC SIGNS AND DEVICES | | |
| | 729(1) | Sign (Type A) | Square Foot | 1 |
| | 729(2) | Sign (Type B) | Square Foot | 1 |
| | 729(3) | Sign (Type C) | Square Foot | 1 |
| | 729(4) | Sign (Type D) | Square Foot | 1 |
| | 729(5) | Sign (Type E) | Square Foot | 1 |
| | 729(6) | Sign (Overhead Mounted) | Square Foot | 1 |
| | 729(7) | Mounting (Size Post) | Each | - |
| | 729(8) | Mounting (Overhead Truss)(Ground Mounted) | Each | |
| | 729(9) | Mounting (Overhead Truss)(Structure Mounted) | Each | - |
| | 729(10) | Mounting (Overhead Cantilever)(Ground Mounted) | Each | - |
| | 729(11) | Mounting(Overhead Cantilever)(Structure Mounted) | Each | ~ |
| | 729(12) | Delineator Assembly (Ground Mounted) | Each | - |
| | 729(13) | Delineator Assembly (Structure Mounted) | Each | - |
| 29 | 729(14) | Hazard Marker Assembly | Each | - |
| | 729(15) | Milepost Assembly (Ground Mounted) | Each | - |
| | 729(16) | Milepost Assembly (Structure Mounted) | Each | - |
| | 729(17)(A) | Dead End Road Installation (Type Λ) | Each | - |
| | 729(17)(B) | Dead End Road Installation (Type B) | Each | - |
| | 729(17)(C) | Dead End Road Installation (Type C) | Each | |
| | 729(18) | Footings for Overhead Mountings (Type) | Each | _ |
| | 729(19) | Mounting (Fascia Mounted Sign Bracket) | Each | - |
| | 729(20) | Sign Overlay Panels | Square Foot | 1 |
| | | SECTION 731 - RAISED PAVEMENT MARKERS | | |
| | 731(1) | Nonreflectorized Raised Pavement Markers (Class) | Each | ~- |
| | 731(2) | Reflectorized Raised Pavement Markers (Class) | Each | <u></u> |
| | | SECTION 732 - THERMOPLASTIC PAVEMENT MARKINGS | | |
| | 732(1) | Thermoplastic Pavement Striping ("Width) | Linear Foot | 0 |
| | 732(2) | Thermoplastic Pavement Legends and Symbols | Each | |
| | 732(3) | Skip-Line Thermoplastic Pavement Striping ("Width) | Mile | 3 |
| | 732(4) | Solid-Line Thermoplastic Pavement Striping (" Width) | Mile | 3 |

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| Item No. | Pay Item | Pay Unit | Decimals |
|-------------------|---|-------------|----------|
| | SECTION 733 - MEDIAN ROADWAY BARRIERS | | |
| 733(1) | Median Roadway Barrier (Type) | Linear Foot | 1 |
| | SECTION 734 - BREAKING AND SEATING PAVEMENT | | |
| 734(1) | Rolling and Seating Pavement | Square Yard | 0 |
| 734(2) | Breaking Pavement | llour | 0 |
| | SECTION 735 - UNDERSEALING PAVEMENT | | |
| 735(1) | Undersealing Pavement | CWT | 1 |
| 735(2) | Holes for Underseal | Each | - |
| | SECTION 802 - STRUCTURAL EXCAVATION AND BACKFIL | L | |
| 802(1) | Structural Excavation | Cubic Yard | 1 |
| 802(2) | Structural Excavation for Intermediate Bents | Cubic Yard | 1 |
| 802(3) | Structural Excavation for Piers (Dry) | Cubic Yard | 1 |
| 802(4) | Structural Excavation for Piers (Wet) | Cubic Yard | 1 |
| | SECTION 803 - SHEET PILES | | |
| 803(1) | Untreated Timber Sheet Pile Wall | Square Foot | 1 |
| 80 3(2)(A) | Treated Timber Sheet Pile Wall (Noncoastal Treatment) | Square Foot | 1 |
| 803(2)(B) | Treated Timber Sheet Pile Wall (Coastal Treatment) | Square Foot | 1 |
| 803(3) | Concrete Sheet Pile Wall | Square Foot | 1 |
| 803(4) | Steel Sheet Pile Wall | Square Foot | 1 |
| | SECTION 804 - BEARING PILES | | |
| 804(1)(A) | Precast Concrete Piles (12") | Linear Foot | 0 |
| 804(1)(B) | Precast Concrete Piles (14") | Linear Foot | 0 |
| 804(1)(C) | Precast Concrete Piles (16") | Linear Foot | 0 |
| 804(1)(D) | Precast Concrete Piles (18") | Linear Foot | • 0 |
| 804(1)(E) | Precast Concrete Piles (20") | Linear Foot | 0 |

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| Item No. | Pay Item | Pay Unit | Decimals |
|----------------|---|-------------|----------|
| | SECTION 804 - BEARING PILES (Cont'd) | | |
| 804(1)(F) | Precast Concrete Piles (24") | Linear Foot | 0 |
| 804(1)(G) | Precast Concrete Piles (30") | Linear Foot | 0 |
| 804(1)(H) | Precast Concrete Piles (36") | Linear Foot | 0 |
| 804(1)(1) | Precast Concrete Piles (54") | Linear Foot | 0 |
| 804(2) | Untreated Timber Piles | Linear Foot | 0 |
| 804(3)(A) | Treated Timber Piles (Noncoastal Treatment) | Linear Foot | 0 |
| 804(3)(B) | Treated Timber Piles (Coastal Treatment) | Linear Foot | 0 |
| 804(4)(A) | Steel Bearing Piles (HP 8x36) | Linear Foot | 0 |
| 804(4)(B) | Steel Bearing Piles (HP 10x42) | Linear Foot | 0 |
| 804(4)(C) | Steel Bearing Piles (HP 10x57) | Linear Foot | 0 |
| 804(4)(D) | Steel Bearing Piles (NP 12x53) | Linear Foot | 0 |
| 804(4)(E) | Steel Bearing Piles (HP 12x74) | Linear Foot | 0 |
| 804(4)(F) | Steel Bearing Piles (HP 14x73) | Linear Foot | 0 |
| 804(4)(G) | Steel Bearing Piles (HP 14x89) | Linear Foot | 0 |
| 804(4)(II) | Steel Bearing Piles (HP 14x102) | Linear Foot | 0 |
| 804(4)(1) | Steel Bearing Piles (HP 14x117) | Linear Foot | 0 |
| 804(5) | Cast-in-Place Concrete Piles (Size) | Linear Foot | 0 |
| Note: See "Pre | cast Concrete Piles" for letter designations to be used. | | |
| | 804(5)(D), Cast-in-Place Concrete Piles (18") | | |
| 804(6) | Concrete Piles (Size) | Linear Foot | 0 |
| Note: See "Pre | ecast Concrete Piles" for letter designations to be used. | | |
| Example: Item | 804(6)(B), Concrete Piles (14") | | |
| 804(7) | Precast Concrete Test Piles | Each | _ |
| 804(8) | Timber Test Piles | Each | - |
| 804(9) | Steel Bearing Test Piles | Each | |
| 804(10) | Cast-in-Place Concrete Test Piles | Each | - |
| 804(11) | Concrete Test Piles | Each | - |
| 804(12) | Loading Test Piles | Each | _ |
| 804(13) | Reloading Test Piles | Each | - |
| 804(14) | Redriving Test Piles | Each | |
| 804(15) | Loading Permanent Piles | Each | |
| | | | - |

32

| | Item No. | Pay Item | Pay Unit | Decimals |
|---|----------------------|---|-------------|----------|
| | | SECTION 805 - STRUCTURAL CONCRETE | | |
| | 805(1) | Class A Concrete | Cubic Yard | 2 |
| | 805(1)(A) | Class A Concrete (Pipe Headwalls) | Cubic Yard | 2 |
| | 805(1)(B) | Class A Concrete (Box Culverts) | Cubic Yard | 2 |
| | 805(1)(C) | Class A Concrete (Retaining Walls) | Cubic Yard | 2 |
| | 805(1)(D) | Class A Concrete (Footings) | Cubic Yard | 2 |
| | 805(1)(E) | Class A Concrete (Piers) | Cubic Yard | 2 |
| | 805(1)(F) | Class A Concrete (Bents) | Cubic Yard | 2 |
| | 805(1)(G) | Class A Concrete (Box Girders) | Cubic Yard | 2 |
| | 805(1)(H) | Class A Concrete (Counterweights) | Cubic Yard | 2 |
| | 805(2) | Class A(M) Concrete | Cubic Yard | 2 |
| | | Concrete" for letter designations to be used. , Class A(M) Concrete (Piers) | | |
| | 13.43mpre: 005(2)(L) | , orass A(II) concrete (ITELS) | | |
| | 805(3) | Class AA Concrete | Cubic Yard | 2 |
|) | 805(4) | Class AA(M) Concrete | Cubic Yard | 2 |
| , | 805(5) | Class D Concrete | Cubic Yard | 2 |
| | 805(6) | Class R Concrete | Cubic Yard | 2 |
| | 805(7) | Class S Concrete | Cubic Yard | 2 |
| | 805(8)(A) | Precast-Prestressed Concrete Girders (Type I) | Linear Foot | 1 |
| | 805(8)(B) | Precast-Prestressed Concrete Girders (Type II) | Linear Foot | 1 |
| | 805(8)(C) | Precast-Prestressed Concrete Girders (Type III) | Linear Foot | 1 |
| | 805(8)(D) | Precast-Prestressed Concrete Girders (Type IV) | Linear Foot | 1 |
| | 805(8)(E) | Precast-Prestressed Concrete Girders (Type V) | Linear Foot | 1 |
| | 805(8)(F) | Precast-Prestressed Concrete Girders (Type VI) | Linear Foot | 1 |
| | 805(9) | Expansion Joint Seal | Linear Foot | 1 |
| | 805(10) | Steel Reinforced Elastomeric Expansion Joint Seal (Size) | Linear Foot | 1 |
| | | SECTION 806 - REINFORCEMENT | | |
| | 806(1) | Deformed Reinforcing Steel | Pound | 0 |
| | | SECTION 807 - STRUCTURAL METALS | | |
| | 807(1) | Steel (A 36) | Pound | 0 |
| | 807(2) | Steel (A 440) | Pound | 0 |
| | 807(3) | Steel (A 441) | Pound | 0 |
| | 807(4) | Steel (A 572) | Pound | 0 |
| | 807(5) | Steel (A 588) | Pound | 0 |
| | 807(6) | Structural Metalwork | Lump Sum | - |
| | | | | |

| | Item No. | Pay Item | Pay Unit | Decimals |
|-------------------------|-----------|--|-------------|----------|
| | | SECTION 808 - STEEL GRID FLOORING | | |
| | 808(1) | Steel Grid Flooring | Square Foot | 1 |
| | | SECTION 809 ~ MOVABLE BRIDGES | | |
| | 809(1) | Movable Bridge Machinery | Lump Sum | - |
| | 809(2) | Traffic Barriers | Lump Sum | - |
| | 809(3) | Power Plant | Lump Sum | - |
| | 809(4) | Operating House | Lump Sum | - |
| | 809(5) | Machinery Houses | Lump Sum | _ |
| | | SECTION 810 - BRIDGE RAILINGS AND BARR | IERS | |
| | 810(1) | Concrete Railing (Type) | Linear Foot | 2 |
| | 810(2) | Steel Railing | Linear Foot | 2 |
| | 810(3) | Steel Channel Railing | Linear Foot | 2 |
| $\frac{\omega}{\omega}$ | 810(4) | Pipe Railing | Linear Foot | 2 |
| ω | 810(5) | Steel and Concrete Railing | Linear Foot | 2 |
| | 810(6) | Pipe and Concrete Railing | Linear Foot | 2 |
| | | SECTION 812 - UNTREATED AND TREATED TI | MBER | |
| _ | 812(1) | Untreated Timber | MFBM | 3 |
| | 812(2)(A) | Treated Timber (Noncoastal Treatment) | MFBM | 3 |
| | 812(2)(B) | Treated Timber (Coastal Treatment) | MFBM | 3 |
| | | SECTION 813 - CONCRETE APPROACH SLAB | S | |
| | 813(1) | Concrete Approach Slabs | Square Yard | 2 |
| | 813(2) | Concrete Approach Slabs (Pile Supported) | Square Yard | 2 |
| | | SECTION 814 - DRILLED SHAFT FOUNDATIO | NS | |
| | 814(1) | Drilled Shaft (Diameter) | Linear Foot | 1 |
| | 814(2) | Bell Footing | Cubic Yard | 2 |
| | 814(3) | Test Hole (Diameter) | Linear Foot | 1 |
| | 814(4) | Test Bell (Diameter) | Each | _ |
| | | | | |

Schedule of Bid Items 1977 Standard Specifications

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|-------|----|-----|----|
| Page | 17 | of. | 18 |

| 1 /// Dettindar | ta becareasis | | 6 |
|-----------------|--|-------------|----------|
| Item No. | Pay Item | Pay Unit | Decimals |
| | SPECIAL ITEMS | | |
| TP-100 | Trainee Reimbursement | Trainee | |
| | | Hour | 0 |
| | ystem: Road and Airport special items should start with Item No. S-1. Lal items should start with Item Np. S-101. | | |
| | Adjusting Gas Lines (Size) | Linear Foot | 0 |
| | Adjusting Sanitary Sewer House Connections | Each | - |
| | Adjusting Sanitary Sewer Service Lines | Linear Foot | 0 |
| | Adjusting Water House Connections | Each | - |
| | Adjusting Water House Service Lines | Linear Foot | 0 |
| | Adjusting Water Lines (Size) | Linear Foot | 0 |
| | Aircraft Tiedowns | Each | - |
| | Asphalt Treated Drainage Blanket | Ton | 1 |
| | Bridge Ballast | Cubic Yard | 1 |
| | Bridge Superstructure and Substructure | Span | - |
| | Cable Guard Barrier | Linear Foot | 1 |
| | Chain Fence | Linear Foot | 0 |
| | Cleaning and Painting (Bridge Repair Projects) | Lump Sum | - |
| | Cleaning and Replacing Joints | Ton | 1 |
| | Clearance Gages | Each | - |
| | Cold Planing Asphaltic Pavement | Square Yard | 0 |
| | Construction Layout | Lump Sum | |
| | Deck Drainage System | Lump Sum | _ |
| | Drilled Wells (size, depth) | Linear Foot | 0 |
| | Driving Shoes | Each | - |
| | Dug Wells (size, depth) | Linear Foot | 0 |
| | Expanded Metal Glare Screen | Linear Foot | 1 |
| | Handrail (Deep Beam) | Linear Foot | 1 |
| | Headlands | Station | 2 |
| | | | |

Schedule of Bid Items 1977 Standard Specifications

Item No.

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| Pay Item | Pay Unit | Decimals |
|---|--------------|----------|
| SPECIAL ITEMS | | |
| Impact Attenuators (Hi-Dro Cell) | Each | - |
| Impact Attenuators (Inertial Barrier) | Each | |
| Irrigation Canals | Station | 2 |
| Mucking Existing Ditches | Station | 2 |
| Paved Drives | Ton | 1 |
| Planing and Recycling Pavement: | | _ |
| Cold Planing Asphaltic Pavement | Square Yard | 0 |
| Asphalt Cement (AC-30) | Ton | 0 |
| New Aggregate Material | Ton | 0 |
| Recycled Asphaltic Concrete | Ton | 1 |
| Plastic Filter Cloth | Square Yard | 0 |
| Precast Concrete Curb | Linear Foot | 1 |
| Railroad Grade Crossings | Square Foot | 1 |
| Raised Asphaltic Concrete Median (Thick) | Square Yard | 1 |
| Reusing Existing Guard Rail | Linear Foot | 1 |
| Rice Levees | Station | 2 |
| Scarifying, Shaping & Compacting Roadbed | Mile | 3 |
| Shaping Roadway Shoulder Drains: | Mile | 3 |
| Shoulder Drainage System | Linear Foot | 0 |
| Outlet Drainage System | Each | - |
| Signing | Each | - |
| Subbase Treatment (RR-Highway Grade Crossings) | Square Yard, | |
| Subbase Iteatment (KK-HIghway Grade Grossings) | Cubic Yard | 1 |
| Traffic Maintenance Aggregate (Vehicular Measurement) | Cubic Yard | 0 |
| Wood Fencing | Linear Foot | 0 |
| | | |

APPENDIX B

LIST OF SECTIONS SAMPLED

| SECTION | DESCRIPTION | | | | | | |
|---------|---|--|--|--|--|--|--|
| 203 | Excavation and Embankment | | | | | | |
| 204 | Temporary Erosion Control | | | | | | |
| 301 | Base Course | | | | | | |
| 302 | Scarifying and Compacting Roadbed | | | | | | |
| 303 | In-place Cement Stablized Base Course | | | | | | |
| 304 | Lime Treatment | | | | | | |
| 305 | Subbase Treatment | | | | | | |
| 401 | Aggregate Surface Course | | | | | | |
| 501 | Asphaltic Concrete Mixtures | | | | | | |
| 502 | Asphaltic Concrete Friction Course | | | | | | |
| 503 | Tack Coat | | | | | | |
| 504 | Prime Coat | | | | | | |
| 505 | Asphaltic Surface Treatment | | | | | | |
| 601 | Portland Cement Concrete Pavement | | | | | | |
| 701 | Culverts and Storm Drains | | | | | | |
| 702 | Manholes, Inlets, and Catch Basins | | | | | | |
| 703 | Underdrains | | | | | | |
| 704 | Guard Rail | | | | | | |
| 705 | Fences | | | | | | |
| 706 | Concrete Walks, Drives and Incidental Paving | | | | | | |
| 707 | Curbs and Gutters | | | | | | |
| 708 | Right-of-Way Markers | | | | | | |
| 709 | Steel Rail Cattle Guards | | | | | | |
| 711 | Riprap | | | | | | |
| 712 | Revetments | | | | | | |
| 713 | Temporary Signs, Barricades and Pavement Markings | | | | | | |
| 714 | Slab Sodding | | | | | | |
| 715 | Topsoil | | | | | | |
| 716 | Vegetative Mulch | | | | | | |
| 717 | Seeding | | | | | | |
| 718 | Fertilizer and Agricultural Lime | | | | | | |
| 719 | Landscaping | | | | | | |
| 720 | Fiberglass Roving | | | | | | |
| 721 | Asphalt Mulch | | | | | | |
| 723 | Granular Material | | | | | | |
| | | | | | | | |

LIST OF SAMPLED SECTIONS

| SECTION | DESCRIPTION |
|---------|------------------------------------|
| 707 | Detaking and Midening Daysment |
| 724 | Patching and Widening Pavement |
| 725 | Temporary Detour Roads and Bridges |
| 726 | Bedding Material |
| 728 | Jacked or Bored Pipe |
| 729 | Traffic Signs and Devices |
| 731 | Raised Pavement Markers |
| 732 | Thermoplastic Pavement Markings |
| 733 | Median Roadway Barriers |
| 734 | Breaking and Seating Pavement |
| 735 | Undersealing Pavement |
| 802 | Structural Excavation and Backfill |
| 803 | Sheet Piles |
| 804 | Bearing Piles |
| 805 | Structural Concrete |
| 806 | Reinforcement |
| 807 | Structural Metals |
| 808 | Steel Grid Flooring |
| 809 | Movable Bridges |
| 810 | Bridge Railings and Barriers |
| 812 | Untreated and Treated Timber |
| 813 | Concrete Approach Slabs |
| 814 | Drilled Shaft Foundations |

APPENDIX C

LIST OF SAMPLING PLAN FACTORS

SAMPLING PLAN FACTORS

| Т | YPE OF MIX (ITEM 501) | MINIMUM % A.C. | (2000 X % A.C.) = FACTOR 7.85 |
|-----|--|----------------|--|
| T | YPE 1 W.C. (shoulder mix, curbs, & medians | 5.3% | 13.50 X Tons = Gallons of AC |
| T | YPE 1 W.C. | 5.3% | 13.50 X Tons = " |
| T | YPE 3 W.C. | 5.3% | 13.50 X Tons = " |
| T | YPE 1 B.C. & TYPE 3 B.C. | 4.7% | 11.97 X Tons = " |
| T | YPE 4 W.C. & TYPE 4 B.C. | 6.5% | 16.56 X Tons = " |
| . 5 | A BASE & 5B BASE | 4.7% | 11.97 X Tons = " |
| | LANT MIX SEAL (5/8" Thick) (ITEM 502) 65 lbs/sq. yd.) | 6.0% | .0325 X Sq.Yds. = TONS 15.29 X Tons = Gallons of A.C. .000952 X TONS = # SAMPLES AGGREGATE |
| A | NTI-STRIP PING | | .005 X Gals A.C. = Gallons Anti-Stri |
| H | OT MIX (1" Thick = 110 lbs/sq.yd. | | |
| P | ORTLAND CEMENT (94 lbs/cu.ft.) (253 | 8 lbs/cu.yd.) | |
| | Type B Concrete | 5.8 Sacks | 545.2 X CU. YDS. = LBS of CEMENT |
| | Class A | 6.0 Sacks | 564 X CU, YDS. = " |
| | Class A(A) | 6.5 Sacks | 611 X CU. YDS. = " |
| S | IDEWALK (ITEM 706) | (4" Thick) | SQ. YDS. X .111 = CU. YDS. |
| | | (6" Thick) | SQ. YDS. X .1667 = " |
| | | | |

| | | Y |
|---|---|--|
| (ITEM 601) | | · |
| PORTLAND CEMENT CONCRETE PAVEMENT | 8"Thick | .222 X Sq.Yds. = CU.YDS. |
| | 9" Thick | .250 X Sq.Yds. = CU.YDS. |
| | 10" Thick | .278 X Sq.Yds. = CU.YDS. |
| | | $(\frac{\text{Sq.Yds}}{\text{X(9)}})$ = Gallons Curing Compou |
| (ITEM 804) CAST-IN-PLACE CONCRETE PILES | 12" | .0291 X Lin.Ft. = CU.YDS |
| (Thin Shell) | 14" | .0396 X Lin.Ft. = CU.YDS. |
| | 16" | .0517 X Lin.Ft. = CU.YDS. |
| | 24" | .1164 X Lin.Ft. = CU.YDS. |
| Cu.Yds of Concrete | ea in Sq.In.) 👉 (1 | • |
| ITEM 704(3) BLOCKED OUT GUARD RAIL Posts & Spacer Blocks | s on 6' 3" Centers | Lin. Ft 6.25 = #Posts, Blocks |
| ITEM 704(8) GUARD RAIL TRANSITION Posts on 3' 1½" Center | (25' PAY LENGTH) ers EACH UNIT | LIN.FT. ÷ 25' = # of Units (25' ÷ 3.125) = 7 Posts, 7 Blocks |
| · · · · · · · · · · · · · · · · · · · | Posts, 1 Spacer B 24" Diameter Footi | NGTH) LIN.FT. ÷ 12½' = # of Units lock ngs (Approx5 Cu.Yds. Concrete) BREAKAWAY CABLE TERMINAL) |

APPENDIX D

SECTION 501 OF THE MATERIALS SAMPLING MANUAL

SECTION 501 ASPHALTIC CONCRETE MIXTURES

ITEM 501 (1-4)

| ITAM | ERIAL | REFERENCE | PURPOSE | SAMPLED BY | MUMINIM | MIN. QUANTITY | CERT. | REMARKS |
|-------------------------|----------------|-------------------------------|---------|--------------|------------------------|---------------------------|--------|---|
| | | TESTED BY | | METHOD | FREQUENCY | CONTAINER | DISTR. | |
| AODITIVES | Anti-Stripping | 501.03 Mat. Lab | Accept. | PE S 601 | 1/batch or shipment | l pt. Friction top can | | (QPL 19) |
| | Silicone | 501.03 PE | Accept. | | | | | (QPL 22) PE to verify that viscosity indicated on container conforms to QPL requirements. |
| AGGREGATES (Coarse) | Expanded Clay | 1003.07 PE | Accept. | | | | | (QPL 2) Visual inspection by PE. |
| | Gravel | 1003.07 PE or Dist. Lab | Accept. | PE* S 101 | 1/source |] ful] sample sack | | (QPL 2) Yisual inspection by PE. *Sample when used for screenings. |
| | Shell | 1003.07 (b) Dist. Lab | Accept. | PE S 101 | 1/source | l full sample sack | | |
| , | Slag | 1003.07(a)(3) Dist. Lab | Accept. | PE S 101 | | l full sample sack | | (QPL 2) |
| | Stone | 1003.07 Mat. Lab | | PE \$ 101 | | l full sample sack | | (QPL 2) |
| AGGREGATES (General) | Crushed Gravel | 1003.07(a)(1) Dist. Lab | | PE \$ 101 | 1/source | l full sample sack | | (QPL 2) For % crushed. Sample if questionable. |
| | Fine Sand | 1003.07(a)(4) Dist. Lab | | PE S 101 | | l full sample sack | | Check for PI. |

SECTION 501 ASPHALTIC CONCRETE MIXTURES

ITEM 501 (1-4) CONT'D.

| MATE | RIAI | REFERENCE | PURPOSE | SAMPLED BY | MUMINIM | MIN. QUANTITY | CERT. | REMARKS |
|------------------------------|-------------------------|--------------------------------|------------|--------------------------------|------------------------------|---------------------------------------|--------|---|
| | MATERIAL | | ן טווי טוב | METHOD | FREQUENCY | CONTAINER | DISTR. | REMARKS |
| ASPHALT MEX RELEASE AGENT | | 501.07 PE | Accept. | | | | | (QPL 25) Visual inspection by PE. |
| BITUMINOUS MIXTURE | Job Mix Release form | 501.04 Contractor | | | l/mix type/ source | | | Contractor shall submit for approval by the PE, the standard job mix release form indicating his intended source of all materials and his mix design prior to starting work. Final approval is by the Dist. Lab Engineer. |
| | Loose Mixture | 501.04 501.23 Contractor | | Contractor S 203 & S 605 | l/half day's plant oper. | 2 gal. Suitable sampling bucket | | DOTD will use contractor's project control test results for gradation acceptance. |
| | | 501.04 501.23 Dist. Lab | Verif. | Contractor S 203 & S 605 | 1/day | l gal. Friction top can | | Representative portion of the first loose mix sample obtained for project control and acceptance by the contractor. |
| | | 501.23 Dist. Lab | | Dist. Lab S 203 | | | | See Record Test Program S 701. Whenever possible, sample at same time acceptance sampling is done. |
| | Briquettes | 501.22 (a) PE | ' | | 2/half day's plant oper., | | | , |
| | | 501.22 (a) Dist. Lab | | | 1/half day's plant oper. | Sultably wrapped | | Shall be a companion sample of an acceptance sample representing each half day's plant operation. (Submit the second briquette.) |

SECTION 501 ASPHALTIC CONCRETE MIXTURES ITEM 501 (1-4) CONT'D.

| MATI | ERIAL | REFERENCE | PURPOSE | SAMPLED BY | мимим | MIN, QUANTITY | CERT. | REMARKS | |
|------------------------------|---------------------------------|--|---------------------------|------------------------|-------------------|---------------------------------------|-------------|---|--|
| | | TESTED BY | | METHOD | FREQUENCY | CONTAINER | DISTR. | NEMARK) | |
| BITUMINOUS MIXTURE (cont'd.) | Thickness | Supp. Spec. 501.22 (e) Dist. Lab | Accept. | Dist. Lab TR 602 | | | | Applies to mixtures epecified for payment on a cubic yard or square yard basis. | |
| | Thickness | Supp. Spec. 501.22 (e) PE | Verif. | PE S 203 & S 605 | 5/lot | 1 in. x 1 in. nq. or 1 in. diam. core | | Applies to mixtures specified for payment on a cubic yard or square yard basis. The thickness of the lot will be the average of the 5 thicknesses of roadway density samples for the lot. | |
| | Width | 501.22(e)(2) Dist. Lab | Accept. | Dist. Lab TR 602 | | | | Applies to mixtures specified for payment on a cubic yard or square yard basis. | |
| PRIME COAT | Cutback (Medium curing) | 1002.04 Mat. Lab | Prelim. Source Test | Refinery S 201 | l/storage tank | l qt. Screw top can | | | |
| ! | | PE | Accept. | | | | CD 1 & 7 | | |
| TACK COAT | Cutback (Rapid curing) | | Prelim. Source Test | Supplier \$ 201 | l/storage tank | l gt. Screw top can | | | |
| | | PE | Accept. | | | | CO 1 & 7 | | |
| į | Emulsified Asphalt (Anionic) | Mat. Lab | Prelim. Source Test | Supplier S 201 | l/storage tank | 1 gal. Plastic bottle | | | |
| | | PE | Accept. | | | | CD 1 & 7 | | |

APPENDIX E

WORKED EXAMPLE

QUANTITY OF ASPHALTIC CONCRETE = 5681.8 TONS

COMPUTATION OF GALLONS OF ASPHALTIC CEMENT

 $13.5 \times 5681.8 = 76704.3$ gallons of AC

COMPUTATION OF NUMBER OF SAMPLES USING AN ESTIMATE OF 6500 GALLONS PER TRANSPORT

76704.3 / 6500 = 11.80 samples

.8 samples cannot be taken so the number is rounded up.

TOTAL NUMBER OF SAMPLES = 12

APPENDIX F

PRE-SAMPLING PLAN FOR CONTRACT 451-30-06

THIS IS THE SAMPLING PLAN FOR

CONTRACT NUMBER 451-30-06 AND

PROJECT NUMBER 451-30-06

LOCATED AT

THE F.A.P. NUMBER IS 220-1(073)012

AND

THE FUNDING IS I

Ŋ

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMPLES REQUIRED 1 |
|-------------------------------------|------------------|--|----------------------------|----------------------|
| ITEM 203(04) EMBANKMENT IN PLACE | 444314.00 CU YDS | NO OF SAMPLES MAY BE CHA | INGED ON THE JUD | GEMENT OF THE ENG |
| AGGREGATES | <u>,</u> | • | | |
| GRAVEL, SAND, SHELL | | 1 / 1000 CUBIC YARDS 1 / 1000 LIN FT / RDWY | ACCEPTANCE PROJ. CONT. | 445 |
| EMBANKMENT | | | | |
| DENSITY | | 1 / LIFT / RDWY IN EACH 1000 FT ZONE | ACCEPTANCE | |
| LIME (HYDRATED AND QUICKLIME) | | | | |
| TYPE E TREATMENT | | 1 / LOAD 1 / SOURCE / PROJECT | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 34 |
| SOILS (SELECT) | | | | |
| IN-PLACE ON ROADWAY | | 1 / 1000 LIN FT / RDWY 0 1 / 2000 LIN FT / SH | ACCEPTANCE | |
| SOILS (USABLE) | | | | |
| BORROW PIT (NON-HYDRAULIC) | | 1 / BORING / ACRE | ACCEPTANCE | |
| HYDRAULIC | | 1 / 8 HR SHIFT | ACCEPTANCE | 1 |
| REQUIRED (COMMON) EXCAVATION | | AS REQUIRED | | |

| MATERIAL AND CONTRACT QUANTITY | , | FREQUENCY | PURPOSE | SAMF REQUIRED | LES 2 |
|--|---|----------------------|----------------|------------------|-------|
| ITEM 204(01) A MULCHING (TEMPORARY) | 128.46 SQ YDS | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| ARTIFICAL COVERINGS | ======================================= | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| FERTILIZER | | VISUAL INSPECTION BY | PE ACCEPTANCE | CA 1 | |
| GRASS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| MULCHES | | VISUAL INPSECTION BY | PE ACCEPTANCE | | |
| SILT FENCING | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| SLOPE DRAINS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
|--|---------------|----------------------|----------------|------------------|-------|
| ITEM 204(02) A GRASSING (TEMPORARY) | 386.00 SQ YDS | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | NGR |
| ARTIFICAL COVERINGS | | VISUAL INSPECTION BY | PE ACCEPTANCE | ł | |
| FERTILIZER | | VISUAL INSPECTION BY | PE ACCEPTANCE | CA 1 | |
| GRASS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| MUL CHE'S | | VISUAL INPSECTION BY | PE ACCEPTANCE | [1 | |
| SILT FENCING | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| SLOPE DRAINS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | * |

| | | | | | | | SAM | PLES 4 |
|--|----------------|-----------|------------|---------|----------------|-----------|--------|--------|
| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | | PURPOSE | REQ | UIRED | TAKEN | |
| ITEM 204(05) SLOPE DRAINS (TEMPORARY) | 1900.00 LIN FT | NO OF | SAMPLES M | AY BE | CHANGED ON THE | JUDGEMENT | OF THE | ENGR |
| ARTIFICAL COVERINGS | 55225555555 | VISUAL | . INSPECTI | ON BY | PE ACCEPTANCE | | | |
| FERTILIZER | | VISUAL | INSPECTI | ON BY | PE ACCEPTANCE | CA | 1 | |
| GRASS | | VISUAI | INSPECTI | ON BY | PE ACCEPTANCE | | | |
| MULCHES | | | . INPSECTI | - | | | | |
| SILT FENCING | | | INSPECTI | | | | | |
| SLOPE DRAINS | | VISUAL | . INSPECTI | ON BY | PE ACCEPTANCE | | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
|-----------------------------------|------|----------------------|----------------|------------------|-------|
| ITEM 204(06) SEDIMENT BASINS | 1.00 | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| ARTIFICAL COVERINGS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| FERTILIZER | | VISUAL INSPECTION BY | PE ACCEPTANCE | CA 1 | |
| GRASS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| MULCHES | | VISUAL INPSECTION BY | PE ACCEPTANCE | | |
| SILT FENCING | | VISUAL INSPECTION BY | PE ACCEPTANCE | | 1 |
| SLOPE DRAINS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMF REQUIRED | LES 6 |
|----------------------------------|--------|----------------------|-------------------|------------------|-------|
| ITEM 204(07) SEDIMENT CHECK DAMS | 488.00 | NO OF SAMPLES MAY BE | CHANGED ON THE JU | IDGEMENT OF THE | ENGR |
| ARTIFICAL COVERINGS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | · |
| FERTILIZER | | VISUAL INSPECTION BY | PE ACCEPTANCE | CA 1 | |
| GRASS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| MULCHES | | VISUAL INPSECTION BY | PE ACCEPTANCE | | |
| SILT FENCING | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| SLOPE DRAINS | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMPLES 7 REQUIRED TAKEN |
|--------------------------------|----------------|----------------------|------------------|-----------------------------|
| ITEM 204(08) SILT FENCING | 1125.00 LIN FT | NO OF SAMPLES MAY BE | CHANGED ON THE J | UDGEMENT OF THE ENGR |
| ARTIFICAL COVERINGS | | VISUAL INSPECTION BY | PE ACCEPTANCE | |
| FERTILIZER | | VISUAL INSPECTION BY | PE ACCEPTANCE | CA 1 |
| GRASS | | VISUAL INSPECTION BY | PE ACCEPTANCE | |
| MULCHES | | VISUAL INPSECTION BY | PE ACCEPTANCE | |
| SILT FENCING | | VISUAL INSPECTION BY | PE ACCEPTANCE | |
| SLOPE DRAINS | | VISUAL INSPECTION BY | PE ACCEPTANCE | İ |

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| TAM 1000 SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ASSECTIONS SASE COURSE SASE COURSE SASE COURSE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE SASE COURSE SASE | MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMI REQUIRED |
|--|---|----------------|--|-------------------|------------------|
| AGGREGATE BASES BINDER OR SAND 1 / 1000 CUBIC YARDS ACCEPTANCE 8 | ITEM 301(01) BASE COURSE | 7421.10 CU YDS | | CHANGED ON THE JU | DGEMENT OF THE |
| CRUSHED STONE GRAVEL | | | | | |
| SAND CLAY GRAVEL ((NATURAL OR ARTIFICAL MIX) SHELL 1 / 4000 CUBIC YARDS ACCEPTANCE 2 LANES OF ROADWAY SELL 1 / 4000 CUBIC YARDS ACCEPTANCE 2 ASPHALTIC CONCRETE CEMENT (PORTLAND) 1 / LOAD 1 / SOURCE / PROJECT CEMENT (PORTLAND) 1 / LOAD 1 / SOURCE / PROJECT CLASS R DETERMINED BY PE ACCEPTANCE CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) DENSITY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE PROJECT PROJ. CONT. 9 MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH SOURCE IN-PLACE ON ROADWAY SILLS IN-PLACE ON ROADWAY STOCKPILE STECLIANT (SHOULDER BASE) MICHIBACK ASCEPTANCE 1 / 1000 CUBIC YARDS ACCEPTANCE PROJECT PROJECT PROJECT PROJ. CONT. 9 ACCEPTANCE 9 STOCKPILE STECLIANT (SHOULDER BASE) 1 / SOURCE 1 / SOURCE STERLIANT (SHOULDER BASE) 1 / SOURCE 1 / SOURCE STERLIANT (SHOULDER BASE) 1 / SOURCE STERLIANT (SHOULDER BASE) | BINDER OR SAND | | 1 / 1000 CUBIC YARDS | ACCEPTANCE | 8 |
| (NATURAL OR ARTIFICAL MIX) 2 LANES OF ROADWAY ACCEPTANCE 13 SHELL | CRUSHED STONE GRAVEL | | 1 / 1000 CUBIC YARDS | ACCEPTANCE | 8 |
| ASPHALTIC CONCRETE CEMENT (PORTLAND) TYPES I,I(B),II | | | • | • | 13 |
| CEMENT (PORTLAND) TYPES I.1(B).II 1 / SOURCE / PROJECT CONCRETE-FRESH (MINOR STRUCTURE) CLASS R CUTING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) DENSITY DENSITY MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH THICKNESS & WIDTH IN-PLACE ON ROADWAY STOCKPILE IN-PLACE ON ROADWAY STOCKPILE IN-PLACE ON ROADWAY STOCKPILE IN-PLACE ON ROADWAY STOCKPILE IN-PLACE ON ROADWAY STOCKPILE ACCEPTANCE I / 1000 CUBIC YARDS ACCEPTANCE STERILANT (SHOULDER BASE) I / SOURCE I / 1000 CUBIC YARDS ACCEPTANCE STERILANT (SHOULDER BASE) I / SHIPMENT ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) ACCEPTANCE SERILANT (SHOULDER BASE) | SHELL | | 1 / 4000 CUBIC YARDS | ACCEPTANCE | 2 |
| TYPES 1,1(B),11 1, LUAD 1/SOURCE / PROJECT RESPICATION OF CC 1 & 7 CONCRETE-FRESH (MINOR STRUCTURE) CLASS R DETERMINED BY PE ACCEPTANCE CUTBACK ASPHALT (MEDIUM CURING) ACCEPTANCE EMULSIFIED ASPHALT (ANIONIC & CATIONIC) ACCEPTANCE LIME (HYDRATED AND QUICKLIME) 1/LOAD 1/SOURCE / PROJECT RESPICATION OF PROJECT RESPIRACE RESPICATION OF PROJECT RESPIRACE | ASPHALTIC CONCRETE | | SEE ITEM 501(1-4) | | |
| CONCRETE-FRESH (MINOR STRUCTURE) CLASS R DETERMINED BY PE ACCEPTANCE CUTING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) DENSITY DENSITY MOISTURE CONTENT MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH THICKNESS & WIDTH SOME AS DENSITY PROJ. CONT. 1 / 1000 LIN FT / RWY OR ACCEPTANCE PROJ. CONT. PROJ. | CEMENT (PORTLAND) | | | | |
| CLASS R CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) DENSITY DENSITY DENSITY MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH THICKNESS & WIDTH SOME AS DENSITY IN-PLACE ON ROADWAY STOCKPILE IN-PLACE ON ROADWAY STOCKPILE STOCKPILE STOCKPILE STOCKPILE DETRMINED BY PE ACCEPTANCE ACCEPTANCE ACCEPTANCE PROJ. CONT. 9 ACCEPTANCE 9 SAME AS DENSITY PROJ. CONT. 9 ACCEPTANCE 9 SAME AS DENSITY ACCEPTANCE 9 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SOURCE | TYPES I,I(B),II | | | | |
| CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) DENSITY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SH PROJ. CONT. 9 MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH ACCEPTANCE SAME AS DENSITY PROJ. CONT. 9 SAME AS DENSITY ACCEPTANCE 9 SOILS IN-PLACE ON ROADWAY STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 9 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SOURCE | CONCRETE-FRESH (MINOR STRUCTURE) | | | | |
| CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) DENSITY DENSITY MOISTURE CONTENT MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH IN-PLACE ON ROADWAY SAME AS DENSITY IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE PULVERIZATION SAME AS DENSITY PROJ. CONT. ACCEPTANCE PROJ. CONT. PROJ. | CLASS R | | DETERMINED BY PE | ACCEPTANCE | |
| EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) MIXTURE ON ROADWAY DENSITY MOISTURE CONTENT MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH IN-PLACE ON ROADWAY STOCKPILE IN-PLACE ON ROADWAY STERILANT (SHOULDER BASE) MOISTURE (ANIONIC & CATIONIC) ACCEPTANCE PROJ. CONT. PROJ. CONT. PROJ. CONT. ACCEPTANCE PROJ. CONT. | CURING MEMBRANE (ASPHALT) | | | | |
| LIME (HYDRATED AND QUICKLIME) 1 / SOURCE / PROJECT VERIFICATION CD 1 & 7 QPL 34 7 Q | CUTBACK ASPHALT (MEDIUM CURING) | | | ACCEPTANCE | |
| MIXTURE ON ROADWAY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 9 MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 9 PULVERIZATION SAME AS DENSITY PROJ. CONT. 9 THICKNESS & WIDTH ACCEPTANCE 9 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 9 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SOURCE S | EMULSIFIED ASPHALT (ANIONIC & CATIONIC) | | | ACCEPEPTANCE | |
| DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SH 9 MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 9 PULVERIZATION SAME AS DENSITY PROJ. CONT. 9 THICKNESS & WIDTH ACCEPTANCE SOILS IN-PLACE ON ROADWAY STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER | LIME (HYDRATED AND QUICKLIME) | | The state of the s | | |
| MOISTURE CONTENT MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH IN-PLACE ON ROADWAY STOCKPILE STOCKPILE STERILANT (SHOULDER BASE) 1 / SOURCE 1 / SOURCE 1 / SOURCE | MIXTURE ON ROADWAY | | | | |
| PULVERIZATION SAME AS DENSITY PROJ. CONT. 9 THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY STOCKPILE STOCKPILE STERILANT (SHOULDER BASE) MATER SAME AS DENSITY ACCEPTANCE 9 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT SOURCE | DENSITY | | | OR ACCEPTANCE | 9 |
| THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY STOCKPILE STOCKPILE STERILANT (SHOULDER BASE) MACCEPTANCE 9 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE 1 / SOURCE | MOISTURE CONTENT | | SAME AS DENSITY | PROJ. CONT. | 9 |
| SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER | PULVERIZATION | | SAME AS DENSITY | PROJ. CONT. | 9 |
| IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE 9 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER | THICKNESS & WIDTH | | | ACCEPTANCE | |
| STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 8 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER 1 / SOURCE | SOILS | | | | |
| STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER 1 / SOURCE | IN-PLACE ON ROADWAY | | SAME AS DENSITY | ACCEPTANCE | 9 |
| WATER 1 / SOURCE | STOCKPILE | | 1 / 1000 CUBIC YARDS | ACCEPTANCE | 8 |
| . , , , , , , , , , , , , , , , , , , , | STERILANT (SHOULDER BASE) | | 1 / SHIPMENT | ACCEPTANCE | |
| | WATER | | | ACCEPTANCE | |

| SAMPLES 9 D TAKEN THE ENGR | | | | | |
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| SAMPL REQUIRED UUDGEMENT OF THE E | | | | | |
| SAMPLES SAMPLES NAPES NO DE SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | PROJ. CONT. | PROJ. CONT. | PROJ. CONT. | PROJ. CONT. | PROJ. CONT. |
| | 2 / DAY | 2 / DAY | 2 / DAY | 2 / DAY | 2 / DAY |
| MATERIAL AND CONTRACT QUANTITY ITEM 301(01) PUGMILL MIXING OF BASE | AGGREGATE | CEMENT (PORTLAND) | E.IME (HYDRATED) | MIXTURE PRIUR TO PLACING ON ROADWAY | SOILS |

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| ILEM 201(02) BASE COURSE A490.00 CU VDS AGRECATE BASES BINDER OR SAND CRUSHED STONE GRAVEL SAND CLAY GRAVEL (NATURAL OR ARTIFICAL MIX) TYPES 1,1(B),11 COURSEE FRESH (MINOR STRUCTURE) CLASS R CUITING MEMBRANE (ASPHALT) CUTAKK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MINOR S CATIONIC) LIME (HYDRATED AND OUTOKLIME) ACCEPTANCE ACCEPTANCE LIME (HYDRATED AND OUTOKLIME) ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE CUTAKK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (MEDIUM CURING) EMULSIFIED AND OUTOKLIME) ACCEPTANCE ACCEPTANCE 1 / LDAD 1 / SOURCE / PROJECT ACCEPTANCE | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED |
|--|---|-------------------------|-------------------|---------------|
| ### BINDER OR SAND ### 1 / 1000 CUBIC YARDS ACCEPTANCE 5 CRUSHED STONE GRAVEL CRUSHED STONE GRAVEL CRUSHED STONE GRAVEL (INATURAL OR ARTIFICAL MIX) SHELL ASPHALTIC CONCRETE CEMENT (PORTLAND) TYPES I.I(B).II 1 / LOAD 1 / LOAD 1 / SOURCE / PROJECT CUTBACK ASPHALT) CUTBACK ASPHALT (ANIONIC & CATIONIC) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) MIXTURE ON ROADWAY DENSITY DENSITY MOISTURE CONTENT MOISTURE CONTENT MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH THICKNESS & WIDTH SAME AS DENSITY PROJ. CONT. 6 STERTLANT (SHOULDER BASE) 1 / 1000 CUBIC YARDS ACCEPTANCE 5 | ITEM 301(02) STERILIZATION OF SHOULDER | NO OF SAMPLES MAY BE CH | ANGED ON THE JUDG | GEMENT OF THE |
| CRUSHED STONE GRAVEL SAND CLAY GRAVEL (INATURAL OR ARTIFICAL MIX) SHELL ASPHALTIC CONCRETE CEMENT (PORTLAND) TYPES I.I(B).II 1 / 1000 LINEAR FEET / 2 LANES OF ROADWAY ACCEPTANCE SEE ITEM 501(1-4) TYPES I.I(B).II 1 / LOAD | | ======= | | |
| SAND CLAY GRAVEL (INATURAL OR ARTIFICAL MIX) SHELL 1 / 4000 CUBIC YARDS ACCEPTANCE 2 LANSS OF ROADWAY ACCEPTANCE 3 SEE ITEM 501(1-4) CEMENT (PORTLAND) TYPES I,I(B),II 1 / LOAD TYPES I,I(B),II 1 / LOAD TYPES I,I(B),II 1 / LOAD TYPES I,I(B),II 1 / LOAD TYPES I,I(B),II 1 / SOURCE / PROJECT ACCEPTANCE CLASS R CURING MEMBRANE (ASPHALT) CUBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) 1 / LOAD TYPES I,I(B),II 1 / LOAD TYPES I,I(B),II ACCEPTANCE EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) 1 / LOAD TYPES I,I(B) TYPES I,I(B),II ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I,I(B) ACCEPTANCE TYPES I, | BINDER OR SAND | 1 / 1000 CUBIC YARDS | ACCEPTANCE | 5 |
| (NATURAL OR ARTIFICAL MIX) SHELL ASPHALTIC CONCRETE CEMENT (PORTLAND) TYPES I,I(B),II CLASS R DETERMINED BY PE ACCEPTANCE CUTING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND OUICKLIME) DENSITY DENSITY MOISTURE CONTENT MOISTURE CONTENT MOISTURE CONTENT MOISTURE CONTENT MOISTURE CONTENT THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY STOCKPILE STOCKPILE STERTLANT (SHOULDER BASE) ACCEPTANCE 1 / 1000 CUBIC YARDS ACCEPTANCE ACCEPTANCE CC 1 8 7 CC | CRUSHED STONE GRAVEL | 1 / 1000 CUBIC YARDS | ACCEPTANCE | 5 |
| ASPHALTIC CONCRETE CEMENT (PORTLAND) TYPES I,I(B),II | | · | ACCEPTANCE | 8 |
| TYPES I,I(B),II 1 1 / LOAD 1 / SOURCE / PROJECT VERIFICATION CC 1 8 7 CONCRETE-FRESH (MINOR STRUCTURE) CLASS R DETERMINED BY PE ACCEPTANCE CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC 8 CATIONIC) LIME (HYDRATED AND QUICKLIME) 1 / LOAD 1 / SOURCE / PROJECT VERIFICATION QPL 34 MIXTURE ON ROADWAY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SWY OR ACCEPTANCE 6 MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 6 MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 6 THICKNESS 8 WIDTH SAME AS DENSITY PROJ. CONT. 6 THICKNESS 8 WIDTH SAME AS DENSITY ACCEPTANCE SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE 5 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STEFRILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE 5 STEFRILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE 5 | SHELL | 1 / 4000 CUBIC YARDS | ACCEPTANCE | 2 |
| TYPES I, I (B), II 1 1 / LOAD 1 / SOURCE / PROJECT CEPTANCE CRITICATION CC 1 & 7 CONCRETE FRESH (MINOR STRUCTURE) CLASS R DETERMINED BY PE ACCEPTANCE CURING MEMBRANE (ASPHALT) CUTBACK ASFHALT (MEDIUM CURING) ACCEPTANCE EMULSIFIED ASPHALT (ANIONIC & CATIONIC) ACCEPTANCE LIME (HYDRATED AND QUICKLIME) 1 / LOAD 1 / SOURCE / PROJECT CRITICATION CPL 3 / OPEN 1 / SOURCE / PROJECT CRITICATION CPL 3 / OPEN 1 | ASPHALTIC CONCRETE | SEE ITEM 501(1-4) | | |
| CONCRETE-FRESH (MINOR STRUCTURE) CLASS R DETERMINED BY PE ACCEPTANCE CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) ACCEPTANCE LIME (HYDRATED AND QUICKLIME) DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SHY OR ACCEPTANCE MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH THICKNESS & WIDTH SAME AS DENSITY PROJ. CONT. 6 THICKNESS & WIDTH SOULS IN-PLACE ON ROADWAY STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) MATER 1 / SOURCE 1 / SOURCE VERIFICATION ACCEPTANCE CD 1 & 7 CCEPTANCE CD 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC PTANCE 5 STERILANT (SHOULDER BASE) 1 / SOURCE UN SOURCE CURING MEMBRANE (ACCEPTANCE) CC 1 & 7 CCEPTANCE CC 1 & 7 CC 1 & 7 CCEPTANCE CC 1 & 7 CCEPTANCE CC 1 & 7 CCEPTANCE CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 CC 1 & 7 | CEMENT (PORTLAND) | | | |
| CLASS R CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) MIXTURE ON ROADWAY DENSITY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE / QPL 34 MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH SAME AS DENSITY PROJ. CONT. 6 THICKNESS & WIDTH SAME AS DENSITY PROJ. CONT. 6 THICKNESS & WIDTH SAME AS DENSITY ACCEPTANCE G THICKNESS & WIDTH SAME AS DENSITY PROJ. CONT. 6 THICKNESS & WIDTH SAME AS DENSITY PROJ. CONT. 6 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERTILANT (SHOULDER BASE) MATER 1 / SOURCE | TYPES I,I(B),II | | | |
| CURING MEMBRANE (ASPHALT) CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) MIXTURE ON ROADWAY DENSITY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SH PULVERIZATION SAME AS DENSITY PROJ. CONT. 6 HICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE THOCKNESS & WIDTH SAME AS DENSITY ACCEPTANCE TO STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) MATER ACCEPTANCE TI / SOURCE | CONCRETE FRESH (MINOR STRUCTURE) | | | |
| CUTBACK ASPHALT (MEDIUM CURING) EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) 1 / LOAD 1 / SOURCE / PROJECT VERIFICATION ACCEPTANCE CD 1 & 7 QPL 34 MIXTURE ON ROADWAY MIXTURE ON ROADWAY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SWY OR ACCEPTANCE 6 MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 6 PULVERIZATION SAME AS DENSITY PROJ. CONT. 6 THICKNESS & WIDTH SOURCE IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE TIN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE STERILANT (SHOULDER BASE) WATER 1 / SOURCE | CLASS R | DETERMINED BY PE | ACCEPTANCE | |
| EMULSIFIED ASPHALT (ANIONIC & CATIONIC) LIME (HYDRATED AND QUICKLIME) 1 / LOAD 1 / SOURCE / PROJECT MIXTURE ON ROADWAY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SH MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 6 PULVERIZATION THICKNESS & WIDTH THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE FOR STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) MATER ACCEPTANCE 1 / SOURCE ACCEPTANCE 5 STERILANT (SHOULDER BASE) ACCEPTANCE ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SOURCE | CURING MEMBRANE (ASPHALT) | | | |
| LIME (HYDRATED AND QUICKLIME) 1 / LOAD 1 / SOURCE / PROJECT VERIFICATION QPL 34 7 Q | CUTBACK ASPHALT (MEDIUM CURING) | | ACCEPTANCE | |
| MIXTURE ON ROADWAY DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SH PROJ. CONT. 6 MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY STOCKPILE STOCKPILE STERILANT (SHOULDER BASE) MIXTURE ON ROADWAY ACCEPTANCE TO SOURCE / PROJECT VERIFICATION OPL 34 ACCEPTANCE SAME AS DENSITY ACCEPTANCE FOR STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE STERILANT (SHOULDER BASE) MATER | EMULSIFIED ASPHALT (ANIONIC & CATIONIC) | | ACCEPEPTANCE | |
| DENSITY 1 / 1000 LIN FT / RWY OR ACCEPTANCE 1 / 2000 LIN FT / SH 6 MOISTURE CONTENT SAME AS DENSITY PROJ. CONT. 6 PULVERIZATION THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE 1 / SOURCE | LIME (HYDRATED AND QUICKLIME) | | | |
| MOISTURE CONTENT MOISTURE CONTENT PULVERIZATION THICKNESS & WIDTH IN-PLACE ON ROADWAY STOCKPILE STERILANT (SHOULDER BASE) 1 / SOURCE 1 / SOURCE 5 SOURCE 1 / SOURCE 6 SAME AS DENSITY ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SOURCE | MIXTURE ON ROADWAY | | | |
| PULVERIZATION SAME AS DENSITY PROJ. CONT. 6 THICKNESS & WIDTH ACCEPTANCE SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE 6 STOCKPILE 1/1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1/SHIPMENT ACCEPTANCE WATER 1/SOURCE | DENSITY | | R ACCEPTANCE | 6 |
| THICKNESS & WIDTH SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE 6 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER | MOISTURE CONTENT | SAME AS DENSITY | PROJ. CONT. | 6 |
| SOILS IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE 5 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER | PULVERIZATION | SAME AS DENSITY | PROJ. CONT. | 6 |
| IN-PLACE ON ROADWAY SAME AS DENSITY ACCEPTANCE 5 STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER | THICKNESS & WIDTH | | ACCEPTANCE | |
| STOCKPILE 1 / 1000 CUBIC YARDS ACCEPTANCE 5 STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER 1 / SOURCE | SOILS | | | |
| STERILANT (SHOULDER BASE) 1 / SHIPMENT ACCEPTANCE WATER 1 / SOURCE | IN-PLACE ON ROADWAY | SAME AS DENSITY | ACCEPTANCE | 6 |
| WATER 1 / SOURCE | STOCKPILE | 1 / 1000 CUBIC YARDS | ACCEPTANCE | 5 |
| · · | STERILANT (SHOULDER BASE) | 1 / SHIPMENT | ACCEPTANCE | |
| | WATER | | ACCEPTANCE | |

| SAMPLES 11 D TAKEN | ENGR | | | | | | | _ |
|--------------------------------|---|------------------------|-------------|-------------------|------------------|-------------------------------------|-------------|---|
| SAMP REQUIRED | JUDGEMENT OF THE | | - | | | | | |
| PURPOSE | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | | PROJ. CONT. | PROJ. CONT. | PRUJ. CONT. | PROJ. CONT. | PROJ. CONT. | |
| | | | 2 / DAY | 2 / DAY | 2 / DAY | 2 / DAY | 2 / DAY | |
| MAJERIAL AND CONTRACT QUANTITY | METERS 301(02) | PUGMILL MIXING OF BASE | AGGREGAFE | CEMENT (PORTLAND) | I IME (HYDRATED) | MIXTURE PRIOR TO PLACING ON ROADWAY | SOLLS | |

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| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQL | SAMP JIRED | TA |
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| TEM 501(01) A SPHALTIC CONCRETE (WEARING COURSE) | 5681.80 TONS | NO OF SAMPLES MAY BE CHA | ANGED ON THE | JUDGEMENT | OF THE | ENGR |
| ADDITIVES | | : a | | | Ì | 1 |
| ANTI-STRIPPING | | 1 / BATCH OR SHIPMENT | ACCEPTANCE | QPL | 19 | |
| SILICONE | | | ACCEPTANCE | QPL | 22 | |
| AGGREGATES (COARSE) | | | | | | |
| EXPANDED CLAY | | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL | 2 | |
| GRAVEL | | 1 / SOURCE | ACCEPTANCE | QPL | 2 | |
| SHELL | | 1 / SOURCE | ACCEPTANCE | | · | |
| SLAG | | 1 / SOURCE | ACCEPTANCE | QPL | 2 | |
| STONE | | 1 / SOURCE | ACCEPTANCE | QPL | 2 | |
| AGGREGATES (GENERAL) | | | | | | |
| CRUSHED GRAVEL | | 1 / SOURCE | ACCEPTANCE | QPL | 2 | |
| FINE SAND | | 1 / SOURCE | ACCEPTANCE | * | | |
| MINERAL FILLER | | SEE ITEM 501(04) | | | | |
| PLANT BINS OR COLD FEED | | DET. BY DIST. LAB. | PROJ. CONT | | | |
| SCREENINGS | | 1 / SOURCE | ACCEPTANCE | QPL | 2 | |
| ASPHALT CEMENT | | 1 / TRANSPORT OR PLANT STORAGE TANK | ACCEPTANCE | CD 1 | 8.7 | |
| ASPHALT MIX RELEASE AGENT | | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL | 25 | } |
| BITUMINOUS MIXTURÉ | | | | | į | - |
| JOB MIX RELEASE FORM | | 1 / MIX TYPE / SOURCE | | | | 1 |
| LOOSE MIXTURE | | i / HALF DAY 1 / DAY | ACCEPTANCE VERIFICATION | 14 N 7 | | |
| BRIQUETTES | | 2 / HALF DAY 1 / HALF DAY | ACCEPTANCE VERFICATION | 27 14 | | |
| ROADWAY | | 5 / LOT 2 / LOT | ACCEPTANCE VERIFICATION | 34 N 14 | | |
| SURFACE TOLERANCE | | EACH LOT EACH LOT | ACCEPTANCE VERIFICATION | 7 7 | | |
| THICKNESS & WIDTH | | ONLY IF PAID BY CUBIC OR SQUARE YDS. | ACCEPTANCE | | } | |

| MAIERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAME | SAMPLES 13 D II TAKEN |
|--------------------------------|---|---|-----------------|--------------------------|
| | *************************************** | | | |
| | NO OF SAMPLES MAY | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | UDGEMENT OF THE | ENGR |
| | | | | |
| CUIBACK (MEDIUM CURING) | | ACCEPTANCE | CD 187 | |
| | | | | |
| CUTBACK TRAPID CURITM.) | | ACCEPTANCE | CD 1 8 7 | |
| EMULSIFIED ASPHALT (ANIONIC) | | ACCEPTANCE | CD 187 | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMF REQUIRED |
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| ITEM 501(01) B ASPHALTIC CONCRETE (BINDER COURSE) 2188.20 TO | | ANGED ON THE JU | JDGEMENT OF THE |
| ADDITIVES | ======= | | |
| ANTI-STRIPPING | 1 / BATCH OR SHIPMENT | ACCEPTANCE | QPL 19 |
| SILICONE | | ACCEPTANCE | QPL 22 |
| AGGREGATES (COARSE) | | | |
| EXPANDED CLAY | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL 2 |
| GRAVEL | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| SHELL | 1 / SOURCE | ACCEPTANCE | |
| SLAG | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| STONE | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| AGGREGATES (GENERAL) | | | |
| CRUSHED GRAVEL | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| FINE SAND | 1 / SOURCE | ACCEPTANCE | |
| MINERAL FILLER | SEE ITEM 501(04) | | |
| PLANT BINS OR COLD FEED | DET. BY DIST. LAB. | PROJ. CONT. | |
| SCREENINGS | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| ASPHALT CEMENT | 1 / TRANSPORT OR PLANT STORAGE TANK | ACCEPTANCE | CD 1 & 7 5 |
| ASPHALT MIX RELEASE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL 25 |
| BITUMINOUS MIXTURE | , | | |
| JOB MIX RELEASE FORM | 1 / MIX TYPE / SOURCE | | |
| LOOSE MIXTURE | 1 / HALF DAY 1 / DAY | ACCEPTANCE VERIFICATION | 3 6 |
| BRIQUETTES | 2 / HALF DAY 1 / HALF DAY | ACCEPTANCE VERFICATION | 11 6 |
| ROADWAY | 5 / LOT 2 / LOT | ACCEPTANCE VERIFICATION | 13 6 |
| SURFACE TOLERANCE | EACH LOT EACH LOT | ACCEPTANCE VERIFICATION | 3 3 |
| THICKNESS & WIDTH | ONLY IF PAID BY CUBIC OR SQUARE YDS. | ACCEPTANCE | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED TAKEN | SAMPLES 15 D TAKEN |
|--------------------------------|---|--------------------|---------------------------|-----------------------|
| 501(01) B | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | HANGED ON THE JUDG | EMENT OF THE | ENGR |
| PRIME COAT | | | | |
| CUIBACK (MEDIUM CURING) | | ACCEPTANCE | CD 1 & 7 | |
| FACK COAT | | | | |
| CUTBACK (RAPID CURING) | | ACCEP LANCE | CD 1 & 7 | |
| EMULSIFIED ASPHALT (ANIONIC) | | ACCEPTANCE | CD 1 & 7 | |

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| TEM SOLICOZ C 14866.40 CU YOS ADDITIVES ANTI-STRIPPING SILICONE AGREGATES (COARSE) EXPANDED CLAY GRAVEL SILICONE ACCEPTANC | MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAM REQUIRED |
|--|--|-----------------|--|-----------------|-----------------|
| ANTI-STRIPPING 1 / BATCH OR SHIPMENT ACCEPTANCE 0PL 19 SILICONE ACCEPTANCE 0PL 22 AGGREGATES (COARSE) EXPANDED CLAY VISUAL INSPECTION BY PE ACCEPTANCE 0PL 2 GRAVEL 1 / SQURCE ACCEPTANCE 0PL 2 SHELL 1 / SQURCE ACCEPTANCE 0PL 2 SHELL 1 / SQURCE ACCEPTANCE 0PL 2 STONE 1 / SQURCE ACCEPTANCE 0PL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SQURCE ACCEPTANCE 0PL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SQURCE ACCEPTANCE 0PL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SQURCE ACCEPTANCE 0PL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SQURCE ACCEPTANCE 0PL 2 AGGREGATES (GENERAL) FINE SAND 1 / SQURCE ACCEPTANCE 0PL 2 ANDREAL FILLER 5SE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SQURCE ACCEPTANCE 0PL 2 ASPHALT CEMENT 1 / TRANSPORT OR ACCEPTANCE 0PL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE 0PL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SQURCE LOOSE MIXTURE 1 / MALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 2 / HALF DAY ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIQUETTES 3 & WIDTH ACCEPTANCE 0PL 25 BRIDER 3 & ACCEPTANCE 0PL 25 BRIDER 3 & ACCEPTANCE 0PL 25 BRIDE | TTEM 501(02) C ASPHALTIC CONCRETE (BASE COURSE) | 14866.40 CU YDS | NO OF SAMPLES MAY BE CHA | ANGED ON THE JU | DGEMENT OF THE |
| SILICONE AGGREGATES (COARSE) EXPANDED CLAY VISUAL INSPECTION BY PE ACCEPTANCE QPL 2 GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 STONE 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 ACCEPTANCE QPL 2 ASPHALT FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / TRANSPORT OR ACCEPTANCE QPL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIATURE 1 / DAY ACCEPTANCE 1 / HALF DAY VERIFICATION ROADWAY 5 / LOT 2 / HALF DAY ACCEPTANCE VERIFICATION ROADWAY 5 / LOT CACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT EACH LOT ACCEPTANCE VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | | | | | |
| AGGREGATES (COARSE) EXPANDED CLAY VISUAL INSPECTION BY PE ACCEPTANCE QPL 2 GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE ACCEPTANCE QPL 2 ASPHALT GENERO 1 / SOURCE ACCEPTANCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / SOURCE ACCEPTANCE ACCEPTANCE QPL 2 ASPHALT GENERO 1 / TRANSPORT OR ACCEPTANCE QPL 25 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIATURE 1 / ADAY ACCEPTANCE 1 / ADAY VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT EACH LOT ACCEPTANCE VERIFICATION THICKNESS & MIDTH ONLY IF PAID BY ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION | ANTI-STRIPPING | | 1 / BATCH OR SHIPMENT | ACCEPTANCE | QPL 19 |
| EXPANDED CLAY GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE QPL 2 STONF 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE ACCEPTANCE MINERAL FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / TRANSPORT OR PLANT STORAGE TANK ACCEPTANCE QPL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 2 ASPHALT MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / DAY VERIFICATION BRIQUETTES 2 / HALF DAY VERFICATION ROADWAY 5 / LOT 2 / LOT VERFICATION SURFACE TOLERANCE EACH LOT VERFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | SILICONE | | | ACCEPTANCE | QPL 22 |
| GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 SHELL 1 / SOURCE ACCEPTANCE SLAG 1 / SOURCE ACCEPTANCE QPL 2 STONE 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / DAY ACCEPTANCE BRIQUETTES 2 / HALF DAY ACCEPTANCE BRIQUETTES 2 / HALF DAY VERIFICATION BRIQUETTES 2 / HALF DAY ACCEPTANCE BRIQUETTES 2 / HALF DAY VERIFICATION ROADWAY 5 / LOT ACCEPTANCE 2 / LOT VERIFICATION SURFACE TOLERANCE EACH LOT ACCEPTANCE VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | AGGREGATES (COARSE) | | | | |
| SHELL 1 / SOURCE ACCEPTANCE QPL 2 STONE 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE MINERAL FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE BRIQUETTES 1 / HALF DAY ACCEPTANCE BRIQUETTES 2 / HALF DAY ACCEPTANCE BRIQUETTES 2 / HALF DAY ACCEPTANCE SURFACE TOLERANCE EACH LOT ACCEPTANCE SURFACE TOLERANCE EACH LOT ACCEPTANCE THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | EXPANDED CLAY | | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL 2 |
| SLAG 1 / SOURCE ACCEPTANCE QPL 2 STONE 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE QPL 2 FINE SAND 1 / SOURCE ACCEPTANCE QPL 2 MINERAL FILLER SETTEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / TRANSPORT OR ACCEPTANCE QPL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE VERTFICATION BRIQUETTES 2 / HALF DAY ACCEPTANCE PRINCE PR | GRAVEL | | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| STONE 1 / SOURCE ACCEPTANCE QPL 2 AGGREGATES (GENERAL) CRUSHED GRAVEL 1 / SOURCE ACCEPTANCE OPL 2 FINE SAND 1 / SOURCE ACCEPTANCE MINERAL FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE OPL 2 ASPHALT CEMENT 1 / TRANSPORT OR ACCEPTANCE OPL 2 ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE OPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY VERIFICATION BRIQUETTES 2 / HALF DAY VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | SHELL | | 1 / SOURCE | ACCEPTANCE | |
| AGGREGATES (GENERAL) CRUSHED GRAVEL FINE SAND 1 / SOURCE ACCEPTANCE MINERAL FILLER PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE OPL 2 ASPHALT CEMENT ASPHALT MIX RELEASE AGENT DIANT STORAGE TANK VISUAL INSPECTION BY PE ACCEPTANCE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY VERIFICATION BRIQUETIES 1 / HALF DAY ACCEPTANCE VERIFICATION ROADWAY 5 / LOT SURFACE TOLERANCE EACH LOT EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE ACCEPTANCE ACCEPTANCE EACH LOT VERIFICATION ACCEPTANCE | SLAG | | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| CRUSHED GRAVEL FINE SAND 1 / SOURCE ACCEPTANCE MINERAL FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE OPL 2 ASPHALT CEMENT 1 / TRANSPORT OR PLANT STORAGE TANK ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE UOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE UOB MIXTURE LOOSE MIXTURE 1 / HALF DAY VERIFICATION BRIQUETTES 2 / HALF DAY VERFICATION ROADWAY 5 / LOT SURFACE TOLERANCE SURFACE TOLERANCE EACH LOT EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE VERIFICATION THICKNESS & WIDTH ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION THICKNESS & WIDTH | STONE | | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| FINE SAND 1 / SOURCE ACCEPTANCE MINERAL FILLER SEE ITEM 501(04) PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / TRANSPORT OR ACCEPTANCE CD 1 & 7 PLANT STORAGE TANK ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE 1 / HALF DAY VERIFICATION BRIQUETTES 2 / HALF DAY VERFICATION ROADWAY 5 / LOT ACCEPTANCE SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | AGGREGATES (GENERAL) | | | | |
| MINERAL FILLER PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE OPL 2 ASPHALT CEMENT ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE OPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE VERIFICATION BRIQUETIES 2 / HALF DAY VERIFICATION ROADWAY 5 / LOT VERFICATION SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE VERIFICATION ONLY IF PAID BY ACCEPTANCE VERIFICATION ONLY IF PAID BY ACCEPTANCE | CRUSHED GRAVEL | | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| PLANT BINS OR COLD FEED DET. BY DIST. LAB. PROJ. CONT SCREENINGS 1 / SOURCE ACCEPTANCE QPL 2 ASPHALT CEMENT 1 / TRANSPORT OR PLANT STORAGE TANK ASPHALT MIX RELEASE AGENT BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE VERIFICATION BRIQUETTES 2 / HALF DAY VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE SURFACE TOLERANCE FACH LOT VERIFICATION THICKNESS & WIDTH DET. BY DIST. LAB. PROJ. CONT ACCEPTANCE QPL 25 THE ACCEPTANCE VERIFICATION DONLY IF PAID BY ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION THICKNESS & WIDTH | FINE SAND | | 1 / SOURCE | ACCEPTANCE | |
| SCREENINGS 1 / SOURCE ACCEPTANCE OPL 2 ASPHALT CEMENT 1 / TRANSPORT OR PLANT STORAGE TANK ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE OPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY VERIFICATION BRIQUETTES 2 / HALF DAY VERFICATION ROADWAY SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE VERIFICATION ONLY IF PAID BY ACCEPTANCE VERIFICATION ONLY IF PAID BY ACCEPTANCE | MINERAL FILLER | | SEE ITEM 501(04) | | |
| ASPHALT CEMENT 1 / TRANSPORT OR PLANT STORAGE TANK ASPHALT MIX RELEASE AGENT BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE VERIFICATION BRIQUETTES 2 / HALF DAY VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ACCEPTANCE VERIFICATION ONLY IF PAID BY ACCEPTANCE | PLANT BINS OR COLD FEED | | DET. BY DIST. LAB. | PROJ. CONT | |
| PLANT STORAGE TANK ASPHALT MIX RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE QPL 25 BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE LOOSE MIXTURE 1 / HALF DAY ACCEPTANCE VERIFICATION BRIQUETTES 2 / HALF DAY VERFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | SCREENINGS | | 1 / SOURCE | ACCEPTANCE | QPL 2 |
| BITUMINOUS MIXTURE JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE 1 / HALF DAY ACCEPTANCE VERIFICATION BRIQUETTES 2 / HALF DAY ACCEPTANCE VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | ASPHALT CEMENT | | | ACCEPTANCE | CD 1 & 7 |
| JOB MIX RELEASE FORM 1 / MIX TYPE / SOURCE 1 / HALF DAY ACCEPTANCE VERIFICATION BRIQUETTES 2 / HALF DAY ACCEPTANCE VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT ACCEPTANCE VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | ASPHALT MIX RELEASE AGENT | | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL 25 |
| LOOSE MIXTURE 1 / HALF DAY VERIFICATION BRIQUETTES 2 / HALF DAY ACCEPTANCE VERIFICATION ROADWAY 5 / LOT ACCEPTANCE VERIFICATION SURFACE TOLERANCE EACH LOT VERIFICATION THICKNESS & WIDTH ACCEPTANCE ONLY IF PAID BY ACCEPTANCE | BITUMINOUS MIXTURE | | | | |
| 1 / DAY VERIFICATION BRIQUETTES 2 / HALF DAY 1 / HALF DAY VERFICATION ROADWAY 5 / LOT 2 / LOT VERIFICATION SURFACE TOLERANCE EACH LOT EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE ONLY IF PAID BY ACCEPTANCE | JOB MIX RELEASE FORM | | 1 / MIX TYPE / SOURCE | | |
| THICKNESS & WIDTH 1 / HALF DAY VERFICATION 1 / HALF DAY VERFICATION ACCEPTANCE 2 / LOT VERIFICATION ACCEPTANCE EACH LOT VERIFICATION ONLY IF PAID BY ACCEPTANCE | LOOSE MIXTURE | | | | |
| 2 / LOT VERIFICATION SURFACE TOLERANCE EACH LOT EACH LOT VERIFICATION THICKNESS & WIDTH ONLY IF PAID BY ACCEPTANCE | BRIQUETTES | | | | |
| THICKNESS & WIDTH EACH LOT VERIFICATION ONLY IF PAID BY ACCEPTANCE | ROADWAY | | | | |
| | SURFACE TOLERANCE | | | | |
| Total direction of the state of | THICKNESS & WIDTH | | ONLY IF PAID BY CUBIC OR SQUARE YDS | ACCEPTANCE | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED | ES 17 TAKEN |
|--------------------------------|----------------------|----------------|-------------------|----------------|
| ITEM 501(02) C | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | NGR |
| PRIME COAT | | | | |
| CUIBACK (MEDIUM CURING) | | ACCEPTANCE | CD 1 & 7 | |
| TACK COAT | | | | |
| CUIBACK (RAPID CURING) | | ACCEPTANCE | CD 1 8 7 | |
| EMULSIFIED ASPHALT (ANIONIC) | | ACCEPTANCE | CD 1 & 7 | |
| | | | [1] | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRE | SAMPLES 18 D TAKEN |
|---|---------|----------------------|------------------|-------------|-------------------------|
| ITEM 501(04) MINERAL FILLER (COMMERICAL GRADE) 314. | 80 TONS | NO OF SAMPLES MAY BE | CHANGED ON THE C | UDGEMENT OF | THE ENGR |
| MINERAL FILLER | | 1 / 100 TONS | ACCEPTANCE | 4 | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAM REQUIRED |
|---|--|-----------------------------|-------------------------------|
| ITEM 601(01) C PORTLAND CEMENT CONCRETE PAVEMENT 3391.60 SQ YDS 8.00" THICK | NO OF SAMPLES MAY BE CHA | ANGED ON THE JUDG | SEMENT OF THE |
| ADMIXTURES (AIR-ENTRAINING, WATER REDUCING (NORMAL & RETARDING) | | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / DAY FOR MOISTURE 2 / DAY FOR GRADATION 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKING MATERIALS FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| UPHOLSTERY ROVING CORD | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| CEMENT (PORTLAND) - TYPES 1(B) & II | 1 / LOAD | 10050711105 | QPL 7 |
| | 1 / SOURCE / PROJ. | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 CC 1 & 7 |
| ONCRETE-FRESH (PAVEMENT) | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| AIR | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT. | |
| FLEXURE AND COMPRESSION | WHEN SPECIFIED | VERIFICATION | |
| SLUMP | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT | |
| UNIT WEIGHT | | PROJ. CONT | |
| CONCRETE-CURED (PAVEMENT) | | | |
| CORES | 5 / LOT | ACCEPTANCE | 24 |
| SURFACE TEST | EACH LOT | ACCEPTANCE | 5 |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT | 10 |
| CURING MATERIALS | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATER PROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| LIQUID MEMBRANE FORMING COMPOUNDS | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESIN SYSTEMS | | | |
| EPOXY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| EPOXY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | · |
| JOINT FILLERS | | | |

| | ONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMF REQUIRED | LES TAKE |
|--------------------------------------|----------------------------|---|-----------------|------------------|-------------|
| ITEM 601(01) C CELLULAR POLYSTYRE | | NO OF SAMPLES MAY BE CH 1 / 5000 LIN FT | ACCEPTANCE | JUDGEMENT OF THE | ENGR |
| PREFORMED CLOSED C | ELL POLYETHYLENE | 1 / 5000 LIN FT | ACCEPTANCE | QPL 18 | |
| PREFORMED NON-BITU | MINOUS CELLULAR | 1 / 5000 LIN FT | ACCEPTANCE | | |
| PREFORMED POLYVINY | L CHLORIDE | 1 / 5000 LIN FT | ACCEPTANCE | CA 3 | |
| SELF EXPANDING COR | K | 1 / 5000 LIN FT | ACCEPTANCE | | |
| SPONGE RUBBER | | 1 / 5000 LIN FT | ACCEPTANCE | | |
| DOOW | | 1 / 5000 LIN FT | ACCEPTANCE | | |
| JOINT SEAL | | | | | |
| ELASTIC | | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 | |
| PVC EXTENDED COAL | TAR | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 | |
| JOINT SEAL (LIQUID POUR) | ED) - POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | | CA 3 QPL 5 | |
| JOINT SEAL (PREFORMED) | - ELASTORMERIC COMPRESSION | 1 / 6000 LIN FT / SEAL LOT / SIZE / TYPE | / ACCEPTANCE | CA QPL 6 | |
| LUBRICANT ADHESIVE | | 1 / ADHESIVE LOT | ACCEPTANCE | QPL 18 | |
| PRIMER | | | ACCEPTANCE | QPL 5 | |
| REINFORCEMENT | | | | | |
| LOAD TRANSMISSION D | DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 | |
| TIE BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| WIRE FABRIC | | 1 / SHIPMENT | ACCEPTANCE | | |
| WATER | | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED TAKEN |
|---|--|-----------------------------|--------------------|
| ITEM 601(01) C PORTIAND CEMENT CONCRETE PAVEMENT 625.60 8.00" | THICK | HANGED ON THE JUD | GEMENT OF THE ENGR |
| ADMIXTURES (AIR-ENTRAINING, WATER REDUCING (NORMAL & RET | | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / DAY FOR MOISTURE 2 / DAY FOR GRADATION 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKING MATERIALS FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| UPHOLSTERY ROVING CORD | VISUAL INSPECTION BY P | E ACCEPTANCE | |
| CEMENT (PORTLAND) - TYPES I(B) & II | 1 / LOAD | ACCEPTANCE | OPL 7 CC 1 & 7 |
| | 1 / SOURCE / PROJ. | VERIFICATION | QPL 7 CC 1 & 7 |
| NEW LE COLOR (DAVENCE) | | VENTIONITE | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| AIR | 1 / HALF DAY | VERIFICATION | |
| AIN | 2 / HALF DAY | PROJ. CONT. | |
| FLEXURE AND COMPRESSION | WHEN SPECIFIED | VERIFICATION | . |
| SLUMP | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT. | |
| UNIT WEIGHT | | PROJ. CONT. | |
| CONCRETE-CURED (PAVEMENT) | | | |
| CORES | 5 / LOT | ACCEPTANCE | 5 |
| SURFACE TEST | EACH LOT | ACCEPTANCE | 1 |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | 2 |
| CURING MATERIALS | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATER PROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| LIQUID MEMBRANE FORMING COMPOUNDS | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESIN SYSTEMS | | | |
| EPOXY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| EPOXY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | |
| JOINT FILLERS | | | |

| ======== | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMP REQUIRED | LES TAKEN |
|----------|---|--|---------------------------|------------------|--------------|
| ITEM 60 | O1(O1) C CELLULAR POLYSTYRENE | NO OF SAMPLES MAY BE | CHANGED ON THE ACCEPTANCE | JUDGEMENT OF THE | ENGR |
| | PREFORMED CLOSED CELL POLYETHYLENE | 1 / 5000 LIN FT | ACCEPTANCE | QPL 18 | |
| | PREFORMED NON-BITUMINOUS CELLULAR | 1 / 5000 LIN FT | ACCEPTANCE | | |
| | PREFORMED POLYVINYL CHLORIDE | 1 / 5000 LIN FT | ACCEPTANCE | CA 3 | [|
| | SELF EXPANDING CORK | 1 / 5000 LIN FT | ACCEPTANCE | | |
| | SPONGE RUBBER | 1 / 5000 LIN FT | ACCEPTANCE | | |
| | WOOD | 1 / 5000 LIN FT | ACCEPTANCE | | |
| JOINT | SEAL | | | | |
| | ELASTIC | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 | ļ |
| | PVC EXTENDED COAL TAR | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 | |
| JOINT | SEAL (LIQUID POURED) - POLYURETHANE POLYMER | 1 / BAICH OR SHIPMENT | | CA 3 QPL 5 | |
| TNIOL | SEAL (PREFORMED) - ELASTORMERIC COMPRESSION | 1 / 6000 LIN FT / SEA LOT / SIZE / TYPE | L / ACCEPTANCE | CA QPL 6 | |
| LUBRI | CANT ADHESIVE | 1 / ADHESIVE LOT | ACCEPTANCE | QPL 18 | |
| PRIME | R | | ACCEPTANCE | QPL 5 | |
| REINF | ORCEMENT | | | | |
| | LOAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 | |
| • | TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| , | WIRE FABRIC | 1 / SHIPMENT | ACCEPTANCE | |] |
| WATER | | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | PURPOSE | REQUIRED |
|---|---|--------------------------|-------------------|
| TIEM 601(01) D PORTLAND CEMENT CONCRETE PAVEMENT | 17640.80 SQ YDS 9.00" THICK | BE CHANGED ON THE JUD | GEMENT OF THE |
| ADMIXTURES (AIR-ENTRAINING, WATER REDUCIN | | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & CDARSE) | 1 / DAY FOR MOISTU 2 / DAY FOR GRADAT 1 / DAY | | QPL 2 QPL 2 |
| BACKING MATERIALS FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| UPHOLSTERY ROVING CORD | VISUAL INSPECTION | BY PE ACCEPTANCE | |
| CEMENT (PORTLAND) - TYPES I(B) & II | 1 / LOAD | ACCEPTANCE | QPL 7 |
| | 1 / SOURCE / PROJ. | | CC 1 & 7 QPL 7 |
| | | VERIFICATION | CC 1 & 7 |
| NCRFTE-FRESH (PAVEMENT) | 4 / MIV TVDE / 501 | IDOL | |
| MIX RELEASE | 1 / MIX TYPE / SOL | VERIFICATION | |
| AIR | 1 / HALF DAY 2 / HALF DAY | PROJ. CONT. | |
| FLEXURE AND COMPRESSION | WHEN SPECIFIED | VERIFICATION | |
| SLUMP . | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT. | |
| UNIT WEIGHT | | PROJ. CONT. | |
| CONCRETE-CURED (PAVEMENT) | | | |
| CORES | 5 / LOT | ACCEPTANCE | 123 |
| SURFACE TEST | EACH LOT | ACCEPTANCE | 25 |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | 50 |
| CURING MATERIALS | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETH WATER PROOF PAPER, WHITE POLYETHYLEN | | ACCEPTANCE | |
| LIQUID MEMBRANE FORMING COMPOUNDS | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESIN SYSTEMS | | | |
| EPOXY | 1 / LOT OR SHIPMEN | IT ACCEPTANCE | QPL 32 |
| EPOXY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | |

| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED | PLES TAP |
|---|---|--|---------------------------|------------------|----------------|
| | EM 601(01) D CELLULAR POLYSTYRENE | NO OF SAMPLES MAY BE | CHANGED ON THE ACCEPTANCE | JUDGEMENT OF THE | II ENGR |
| | | | | 221 | |
| | PREFORMED CLOSED CELL POLYETHYLENE | 1 / 5000 LIN FT | ACCEPTANCE | QPL 18 | |
| | PREFORMED NON-BITUMINOUS CELLULAR | 1 / 5000 LIN FT | ACCEPTANCE | | } } |
| | PREFORMED POLYVINYL CHLORIDE | 1 / 5000 LIN FT | ACCEPTANCE | CA 3 | |
| | SELF EXPANDING CORK | 1 / 5000 LIN FT | ACCEPTANCE | | |
| | SPONGE RUBBER | 1 / 5000 LIN FT | ACCEPTANCE | | |
| | WOOD | 1 / 5000 LIN FT | ACCEPTANCE | | |
| · | JOINT SEAL | | | | |
| | ELASTIC | 1 / BATCH OR SHIPMENT | T ACCEPTANCE | CA 3 | |
| | PVC EXTENDED COAL TAR | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 | |
| · | OINT SEAL (LIQUID POURED) - POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | г | CA 3 QPL 5 | |
| · | DOINT SEAL (PREFORMED) - ELASTORMERIC COMPRESSION | 1 / 6000 LIN FT / SEA LOT / SIZE / TYPE | AL / ACCEPTANCE | CA QPL 6 | |
| L | UBRICANT ADHESIVE | 1 / ADHESIVE LOT | ACCEPTANCE | QPL 18 | |
| Р | RIMER | | ACCEPTANCE | QPL 5 | |
| R | EINFORCEMENT | | | | |
| | LOAD TRANSMISSION DEVICES | 1 / TMAMQIHZ / 1 JULY TMICE | ACCEPTANCE | QPL 15 | |
| | TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| | WIRE FABRIC | 1 / SHIPMENT | ACCEPTANCE | | |
| W | ATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED |
|---|--|-----------------------------|-------------------------------|
| PURILAND CEMENT CONCRETE PAVEMENT 45128.10 SQ YE 10.00" THIC | NO OF SAMPLES MAY BE CH | 'ANGED ON THE J | SUDGEMENT OF THE ENG |
| ADMIXTURES (AIR-ENTRAINING, WATER REDUCING (NORMAL & RETARDIN | | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & CDARSE) | 1 / DAY FOR MOISTURE 2 / DAY FOR GRADATION 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKING MATERIALS FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| UPHOLSTERY ROVING CORD | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| CEMENT (PORTLAND) - TYPES I(B) & II | 1 / LOAD | | QPL 7 |
| | 1 / SOURCE / PROJ. | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 CC 1 & 7 |
| CONCRETE-FRESH (PAVEMENT) | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| AIR | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT. | |
| FLEXURE AND COMPRESSION | WHEN SPECIFIED | VERIFICATION | |
| SLUMP | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT. | |
| UNIT MEIGHL | | PROJ. CONT. | |
| CONCRETE-CURED (PAVEMENT) | | | |
| CORES | 5 / LOT | ACCEPTANCE | 314 |
| SURFACE TEST | EACH LOT | ACCEPTANCE | 63 |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | 126 |
| CURING MATERIALS | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATER PROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| LIQUID MEMBRANE FORMING COMPOUNDS | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESIN SYSTEMS | | | |
| EPOXY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| EPOXY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | [] |
| JOINT FILLERS | | | |

| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQU | SA JIRED | MPLES |
|-----------------|---|---|---------------------------|-------------|-------------|--------|
| ITEM 601(CE | | NO OF SAMPLES MAY BE CHA 1 / 5000 LIN FT | NGED ON THE ACCEPTANCE | JUDGEMENT | OF TH | E ENGR |
| PR | REFORMED CLOSED CELL POLYETHYLENE | 1 / 5000 LIN FT | ACCEPTANCE | QPL | 18 | |
| PF | REFORMED NON-BITUMINOUS CELLULAR | 1 /.5000 LIN FT | ACCEPTANCE | | | |
| PR | REFORMED POLYVINYL CHLORIDE | 1 / 5000 LIN FT | ACCEPTANCE | CA : | 3 | |
| SE | ELF EXPANDING CORK | 1 / 5000 LIN FT | ACCEPTANCE | | | |
| SF | PONGE RUBBER | 1 / 5000 LIN FT | ACCEPTANCE | | | |
| WC | DOD | 1 / 5000 LIN FT | ACCEPTANCE | | | |
| JOINT S | SEAL | | | | | |
| E L | ASTIC | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA : | 3 | |
| P۷ | /C EXTENDED COAL TAR | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA : QPL | | |
| JOINT S | SEAL (LIQUID POURED) - POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | | CA : QPL | | |
| JOINT S | SEAL (PREFORMED) - ELASTORMERIC COMPRESSION | 1 / 6000 LIN FT / SEAL / LOT / SIZE / TYPE | ACCEPTANCE | CA QPL | 6 | |
| LUBRICA | ANT ADHESIVE | 1 / ADHESIVE LOT | ACCEPTANCE | QPL | 18 | |
| PRIMER | | | ACCEPTANCE | QPL | 5 | |
| REINFOR | RCEMENT | | | | | |
| LO | DAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL | 15 | |
| TI | E BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | |
| WI | RE FABRIC | 1 / SHIPMENT | ACCEPTANCE | | | |
| WATER | | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SA REQUIRED |
|---|--|-----------------------------|-------------------------------|
| TIEM GO1(O1) E PORTLAND CEMENT CONCRETE PAVEMENT 872.60 SQ YDS 10.00" THICK | NO OF SAMPLES MAY BE CHA | ANGED ON THE JUD | GEMENT OF TH |
| ADMIXTURES (AIR-ENTRAINING, WATER REDUCING (NORMAL & RETARDING) | | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / DAY FOR MOISTURE 2 / DAY FOR GRADATION 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKING MATERIALS FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| UPHOLSTERY ROVING CORD | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| CEMENT (PORTLAND) - TYPES I(B) 8 11 | 1 / LOAD | | QPL 7 |
| | 1 / SOURCE / PROJ. | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 CC 1 & 7 |
| ICRETE-PRESH (PAVEMENT) | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| AIR | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT. | |
| FLEXURE AND COMPRESSION | WHEN SPECIFIED | VERIFICATION | |
| SLUMP | 1 / HALF DAY 2 / HALF DAY | VERIFICATION PROJ. CONT | |
| UNIT WEIGHT | | PROJ. CONT | |
| CONCRETE-CURED (PAVEMENT) | | | |
| CORES | 5 / LOT | ACCEPTANCE | 7 |
| SURFACE TEST | EACH LOT | ACCEPTANCE | 2 |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT | 3 |
| CURING MATERIALS | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATER PROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| LIQUID MEMBRANE FORMING COMPOUNDS | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESIN SYSTEMS | | | |
| EPOXY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| EPOXY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | |
| JOINT FILLERS | | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMP REQUIRED | LES TA |
|---|---|-----------------|------------------|-------------|
| ITEM GO1(O1) E CELLULAR POLYSTYRENE | NO OF SAMPLES MAY BE CH 1 / 5000 LIN FT | ANGED ON THE | JUDGEMENT OF THE | ENGR |
| PREFORMED CLOSED CELL POLYETHYLENE | 1 / 5000 LIN FT | ACCEPTANCE | QPL 18 | |
| PREFORMED NON-BITUMINOUS CELLULAR | 1 / 5000 LIN FT | ACCEPTANCE | | |
| PREFORMED POLYVINYL CHLORIDE | 1 / 5000 LIN FT | ACCEPTANCE | CA 3 | |
| SELF EXPANDING CORK | 1 / 5000 LIN FT | ACCEPTANCE | | |
| SPONGE RUBBER | 1 / 5000 LIN FT | ACCEPTANCE | | 1 |
| WOOD | 1 / 5000 LIN FT | ACCEPTANCE | | |
| JOINT SEAL | | | | |
| ELASTIC | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 | |
| PVC EXTENDED COAL TAR | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 | |
| JOINT SEAL (LIQUID POURED) - POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | | CA 3 QPL 5 | |
| JOINT SEAL (PREFORMED) - ELASTORMERIC COMPRESSION | 1 / 6000 LIN FT / SEAL LOT / SIZE / TYPE | / ACCEPTANCE | CA QPL 6 | |
| LUBRICANT ADHESIVE | 1 / ADHESIVE LOT | ACCEPTANCE | QPL 18 | |
| PRIMER | | ACCEPTANCE | QPL 5 | |
| REINFORCEMENT | | | | |
| LOAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 | |
| TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| WIRE FABRIC | 1 / SHIPMENT | ACCEPTANCE | | |
| WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |

| MATERIAL AND CUNHRACH QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED TAM | LES 29 TAKEN |
|--|-------------------------|---------------------------------|-------------------------|-----------------|
| ITEM 701(07) G ASBESTOS BONDED CORRUGATED STEEL PIPE 18" DIA | NO OF SAMPLES MAY BE | CHANGED ON THE JUDGEMENT OF THE | SEMENT OF THE | ENGR |
| ветельного применения применения в применения в применения в применения в применения в применения в применения В SBESTOS CEMENT PIPE | VISUAL INSPECTION BY PE | ACCEPTANCE | £ 23 | |
| BACKFILL (SDIL) | SEE ITEM 723(2) | | | |
| BEDDING MAIFRIAL | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| CAST IRON PIPE | VISUAL INSPECTION BY PE | | e 22 | |
| CONCRETE PIPE | | | | |
| NONREINFORCED, REINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY PE | | CD 187 | |
| CONDUIT PLUG | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| GASKET MATERIAL (FOR PIPE) | | | | |
| FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | OPL 4 | |
| RUBBER GASKETS | | ACCEPTANCE | CA 7 | |
| SEALANIS | | ACCEPTANCE | QPL 4 | |
| METAL PIPE | | | | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 8 7 | |
| BITUMINDUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 187 | |
| CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 8 7 | |
| STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | | |
| | | | • | |

| MATERIAL AND CONTRACT QUANTITY | | SAMPLES 30 POSE REQUIRED TAKEN |
|--|------------------------------|----------------------------------|
| ITEM 701(07) I ASBESTOS BONDED CORRUGATED STEEL PIPE 24" DIA 71.00 | NO OF SAMPLES MAY BE CHANGED | ON THE JUDGEMENT OF THE ENGR |
| ASBESTOS CEMENT PIPE | VISUAL INSPECTION BY PE ACCE | EPTANCE CC 3 |
| BACKFILL (SOIL) | SEE ITEM 723(2) | |
| BEDDING MATERIAL | VISUAL INSPECTION BY PE ACCE | EPTANCE |
| CAST IRON PIPE | VISUAL INSPECTION BY PE | сс з |
| CONCRETE PIPE | | |
| NONREINFORCED, REINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY PE | CD 1 & 7 |
| CONDUIT PLUG | VISUAL INSPECTION BY PE ACCE | EPTANCE |
| GASKET MATERIAL (FOR PIPE) | | |
| FLEXIBLE PLASTIC GASKET | ACCE | EPTANCE QPL 4 |
| RUBBER GASKETS | ACCE | EPTANCE CA 7 |
| SEALANTS | ACCE | EPTANCE QPL 4 |
| METAL PIPE | | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY PE ACCE | EPTANCE CD 1 & 7 |
| BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE ACCE | EPTANCE CD 1 & 7 |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE ACCE | EPTANCE CD 1 & 7 |
| CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE ACCE | EPTANCE CD 1 & 7 |
| SLOTTED DRAIN PIPE | SAME AS ABOVE ACCE | EPTANCE CD 1 & 7 |
| STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE ACCE | EPTANCE CD 1 & 7 |
| VITRIFIED CLAY PIPE | SAME AS ABOVE ACCE | EPTANCE |

| MAIERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLE REQUIRED | S 31 TAKEN |
|---|------------------------|----------------|---------------------|---------------|
| ITEM 701(13) F REINFORCED CONCRETE PIPE 334.00 LIN FT 15" DIA | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE EN | GR |
| | | | | |
| ASBESIOS CEMENT PIPE | VISUAL INSPECTION BY | PE ACCEPTANCE | CC 3 | |
| BACKFILL (SOIL) | SEE ITEM 723(2) | | | |
| BEDDING MATERIAL | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| CAST IRON PIPE | VISUAL INSPECTION BY | PE | сс э | |
| CONCRETE PIPE | | | | |
| NONREINFORCED, REINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY | PE | CD 1 & 7 | |
| CONDUIT PEUG | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| GASKET MATERIAL (FOR PIPE) | | | | |
| FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 | |
| RUBBER GASKETS | | ACCEPTANCE | CA 7 | |
| SEAL ANTS | | ACCEPTANCE | QPL 4 | |
| METAL PIPE | | | | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY F | PE ACCEPTANCE | CD 1 & 7 | |
| BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | | |

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| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES 3: REQUIRED TAKEN |
|--------|---|-------------------------|---------------|--------------------------------|
| 1 | ITEM 701(13) G REINFORCED CONCRETE PIPE 978.00 LIN FT | NO OF SAMPLES MAY BE C | HANGED ON THE | JUDGEMENT OF THE ENGR |
| ==: | ASBESTOS CEMENT PIPE | VISUAL INSPECTION BY P | E ACCEPTANCE | cc 3 |
| | BACKFILL (SOIL) | SEE ITEM 723(2) | | |
| | BEDDING MATERIAL | VISUAL INSPECTION BY P | E ACCEPTANCE | |
| | CAST IRON PIPE | VISUAL INSPECTION BY PI | E | сс з |
| | CONCRETE PIPE | | | |
| | NONREINFORCED, REINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY PE | <u>.</u> | CD 1 & 7 |
| | CONDUIT PLUG | VISUAL INSPECTION BY PE | E ACCEPTANCE | |
| | GASKET MATERIAL (FOR PIPE) | | | |
| | FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 |
| | RUBBER GASKETS | | ACCEPTANCE | CA 7 |
|) O | SEALANTS | | ACCEPTANCE | QPL 4 |
| 0 | METAL PIPE | | | |
| | ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 |
| | BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| | CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| | CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| | SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| | STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| | VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | |

| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
|----|--|-------------------------------|---------------|------------------|-------|
| | LIEM 701(13) I REINFORCED CONCRETE PIPE 174.00 L 24" DIA | IN FT NO OF SAMPLES MAY BE CO | HANGED ON THE | JUDGEMENT OF THE | ENGR |
| = | ASBESTOS CEMENT PIPE | VISUAL INSPECTION BY P | E ACCEPTANCE | сс з | |
| | BACKFILL (SOIL) | SEE ITEM 723(2) | | | j |
| | BEDDING MATERIAL | VISUAL INSPECTION BY P | E ACCEPTANCE | | |
| | CAST TRON PIPE | VISUAL INSPECTION BY P | Ē | сс з | |
| | CONCRETE PIPE | | | | ļ |
| | NONREINFORCED, REINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY P | | CD 1 & 7 | |
| | COMPUTE PLUG | VISUAL INSPECTION BY P | E ACCEPTANCE | | |
| | GASKET MATERIAL (FOR PIPE) | | | | |
| | FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 | |
| | RUBBER GASKETS | | ACCEPTANCE | CA 7 | |
| | SEAL ANTS | | ACCEPTANCE | QPL 4 |] |
| | METAL PIPE | | | | ļ |
| 90 | ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY P | E ACCEPTANCE | CD 1 & 7 | |
| | BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | ļ |
| | SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | ļ. |
| | STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | | |
| | | | | 1 | 1 |

SAMPLES

| ITEM 701(13) K REINFORCED CONCRETE PIPE 30" DIA | 551.00 LIN F | | HANGED ON THE | ODDGEMENT OF THE |
|---|----------------|------------------------|---------------|------------------|
| ASBESTOS CEMENT PIPE | | VISUAL INSPECTION BY P | E ACCEPTANCE | сс з |
| BACKFILL (SOIL) | | SEE ITEM 723(2) | | |
| BEDDING MATERIAL | | VISUAL INSPECTION BY P | E ACCEPTANCE | |
| CAST IRON PIPE | | VISUAL INSPECTION BY P | E | сс з |
| CONCRETE PIPE | | | | |
| NONREINFORCED, REINFORCED, REINFOR | CED ARCH | VISUAL INSPECTION BY P | Ε | CD 1 8 7 |
| CONDUIT PLUG | | VISUAL INSPECTION BY P | E ACCEPTANCE | |
| GASKET MATERIAL (FOR PIPE) | | | | |
| FLEXIBLE PLASTIC GASKET | | | ACCEPTANCE | QPL 4 |
| RUBBER GASKETS | | | ACCEPTANCE | CA 7 |
| SEALANTS | | | ACCEPTANCE | QPL 4 |
| METAL PIPE | | | | |
| ASBESTOS BONDED CORRUG. STEEL PIPE | & PIPE ARCH | VISUAL INSPECTION BY P | E ACCEPTANCE | CD 1 & 7 |
| BITUMINOUS COATED CORRUG. STEEL PI | PE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| CORRUG. STEEL PIPE & PIPE ARCH | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| SLOTTED DRAIN PIPE | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| STRUCTURAL PLATE PIPE & PIPE ARCH | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| VITRIFIED CLAY PIPE | | SAME AS ABOVE | ACCEPTANCE | |

MATERIAL AND CONTRACT QUANTITY

FREQUENCY

SAMPLES 34
REQUIRED | TAKEN

PURPOSE

| MATERIAL AND CUNTRACT QUANTITY | FREQUE | NCY | PURPOSE | REQUIRED | TAKE |
|---|----------------|-----------------|----------------|--------------------|------|
| ITEM 701(13) M REINFURCED CONCRETE PIPE 36" DTA | 104.00 LIN FT | SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE E | NGR |
| ASBESIOS CEMENT PIPE | | INSPECTION BY | PE ACCEPTANCE | сс з | |
| BACKFILL (SOIL) | SEE IT | TEM 723(2) | | | |
| BEDDING MATERIAL | VISUAL | INSPECTION BY | PE ACCEPTANCE | | |
| CASI IRON PIPE | VISUAL | INSPECTION BY | PE | сс з | |
| CONCRETE PIPE | | | | | |
| NONREINFORCED, REINFORCED, REINFORCED ARCH | 1 VISUAL | . INSPECTION BY | PE | CD 1 & 7 | |
| CONDUIT PLUG | VISUAL | INSPECTION BY | PE ACCEPTANCE | | |
| GASKET MATERIAL (FOR PIPE) | | | | | |
| FLEXIBLE PLASTIC GASKET | | | ACCEPTANCE | QPL 4 | |
| RUBBER GASKETS | | | ACCEPTANCE | CA 7 | |
| SEALANIS | | | ACCEPTANCE | QPL 4 | |
| METAL PIPE | | | | H | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE | ARCH VISUAL | INSPECTION BY | PE ACCEPTANCE | CD 1 & 7 | |
| BITUMINOUS COATED CORRUG. STEEL PIPE & PIF | PE ARCH SAME A | S ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME A | S ABOVE | ACCEPTANCE | CD 1 & 7 | |
| CORRUG. STEEL PIPE & PIPE ARCH | SAME A | S ABOVE | ACCEPTANCE | CD 1 & 7 | |
| SLOTTED DRAIN PIPE | SAME A | S ABOVE | ACCEPTANCE | CD 1 & 7 | |
| STRUCTURAL PLATE PIPE & PIPE ARCH | SAME A | S ABOVE | ACCEPTANCE | CD 1 & 7 | |
| VITRIFIED CLAY PIPE | SAME A | S ABOVE | ACCEPTANCE | | |

| -= == | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED TAK | EN |
|-------|--|-------------------------|------------------|---------------------|----|
| | ITEM 701(13) P REINFORCED CONCRETE PIPE 1152.00 LIN FT 54" DIA | | ANGED ON THE JUI | DGEMENT OF THE ENGR | |
| | ASBESTOS CEMENT PIPE | VISUAL INSPECTION BY PE | ACCEPTANCE | сс з | |
| | BACKFILL (SOIL) | SEE ITEM 723(2) | | [] | |
| | BEDDING MATERIAL | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| | CAST IRON PIPE | VISUAL INSPECTION BY PE | | сс з | |
| | CONCRETE PIPE | | | | |
| | NONREINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY PE | | CD 1 & 7 | |
| | CONDUIT PLUG | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| | GASKET MATERIAL (FOR PIPE) | | | | |
| | FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 | |
| | RUBBER GASKETS | | ACCEPTANCE | CA 7 | |
| 93 | SEALANTS | | ACCEPTANCE | QPL 4 | |
| | METAL PIPE | | | | |
| | ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| | BITUMINOUS COATED CORRUG. STEEL FIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | | |
| | | | | ff | |

SAMPLES

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMPLES REQUIRED TAK |
|---|---------------|---------------------------|----------------|------------------------|
| ITEM 701(13) Q REINFORCED CONCRETE PIPE 60" DIA | 820.00 LIN FT | | CHANGED ON THE | JUDGEMENT OF THE ENGR |
| ASBESTOS CEMENT PIPE | | = VISUAL INSPECTION BY | PE ACCEPTANCE | сс з |
| BACKFILL (SOIL) | | SEE 1TEM 723(2) | | |
| BEDDING MATERIAL | | VISUAL INSPECTION BY | PE ACCEPTANCE | |
| CASI IRON PIPE | | VISUAL INSPECTION BY | PE | сс з |
| CONCRETE PIPE | | | | |
| MONREINFORCED, REINFORCED, REINFORCED ARC | н | VISUAL INSPECTION BY | PE | CD 1 & 7 |
| COMPUIT PLUG | | VISUAL INSPECTION BY | PE ACCEPTANCE | |
| GASKET MATERIAL (FOR PIPE) | | | | |
| FLEXIBLE PLASTIC GASKET | | | ACCEPTANCE | QPL 4 |
| RUBBER GASKETS | | | ACCEPTANCE | CA 7 |
| SEALANIS | | | ACCEPTANCE | QPL 4 |
| METAL PIPE | | | | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE | ARCH | VISUAL INSPECTION BY | PE ACCEPTANCE | CD 1 & 7 |
| BITUMINOUS COATED CORRUG. STEEL PIPE & PI | PE ÁRCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| CORRUG. ALUMINUM PIPE & PIPE ARCH | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| CORRUG. STEEL PIPE & PIPE ARCH | | SAME AS ABOVE | ACCEPTANCE | CD 1 8 7 |
| SLOTTED DRAIN PIPE | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| STRUCTURAL PLATE PIPE & PIPE ARCH | | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 |
| VITRIFIED CLAY PIPE | | SAME AS ABOVE | ACCEPTANCE | |

| ITEM 701(13) Q REINFORCED CONCRETE PIPE 1242.00 LIN FT GO* DIA ASBESTOS CEMENT PIPE ASBESTOS CEMENT PIPE BACKFILL (SOIL) BEDDING MATERIAL CAST IRON PIPE NONREINFORCED, REINFORCED ARCH CONCRETE PIPE NONREINFORCED, REINFORCED ARCH VISUAL INSPECTION BY PE CC 3 CONCRETE PIPE NONREINFORCED, REINFORCED ARCH VISUAL INSPECTION BY PE CC 3 CONDUIT PLUG GASKEI MAIERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. ALUMINUM PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CD 1 & 7 CD 1 & 7 CD 1 & 7 CD 1 & 7 CD 1 & 7 CD 1 & 7 CD 1 & 7 CD 1 & | | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 38 TAKEN |
|---|----|--|----------------------|----------------|------------------|-----------------|
| ASBESTOS CEMENT PIPE BACKFILL (SOIL) BEDDING MATERIAL CAST IRON PIPE CONCRETE PIPE NONREINFORCED, REINFORCED ARCH CONDUIT PLUG GASKET MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CC 3 CC 4 CC 3 CC 3 CC 3 CC 3 CC 3 CC 4 CC 3 CC 4 CC 7 CONDUIT PLUG GASKET MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS ACCEPTANCE CC 4 ACCEPTANCE CD 1 & 7 CORRUG. ALUMINUM PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | ITEM 701(13) Q REINFORCED CONCRETE PIPE 1242.00 LIN FT | | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| BEDDING MATERIAL CAST IRON PIPE CONCRETE PIPE NONREINFORCED, REINFORCED ARCH VISUAL INSPECTION BY PE CODUIT PLUG GASKET MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 | == | | | PE ACCEPTANCE | CC 3 | |
| CAST IRON PIPE CONCRETE PIPE NONREINFORCED, REINFORCED ARCH NONREINFORCED, REINFORCED ARCH VISUAL INSPECTION BY PE ACCEPTANCE GASKEI MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINGUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | BACKFILL (SOIL) | SEE ITEM 723(2) | | | |
| CONCRETE PIPE NONREINFORCED, REINFORCED ARCH NONREINFORCED, REINFORCED ARCH VISUAL INSPECTION BY PE ACCEPTANCE GASKET MAIERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE OPL 4 ACCEPTANCE CD 1 & 7 CORRUG. ALUMINUM PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | BEDDING MATERIAL | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| NONREINFORCED, REINFORCED ARCH CONDUIT PLUG GASKET MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | CAST IRON PIPE | VISUAL INSPECTION BY | PE | сс з | |
| CONDUIT PLUG GASKET MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SLOTTED DRAIN PIPE COR 1 & 7 | | CONCRETE PIPE | | | | |
| GASKET MATERIAL (FOR PIPE) FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SLOTTED DRAIN PIPE CD 1 & 7 | | NONREINFORCED, REINFORCED ARCH | VISUAL INSPECTION BY | PE | CD 1 & 7 | |
| FLEXIBLE PLASTIC GASKET RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SLOTTED DRAIN PIPE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | CONDUIT PLUG | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| RUBBER GASKETS SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | GASKET MATERIAL (FOR PIPE) | | | | |
| SEALANTS METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 | |
| METAL PIPE ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | RUBBER GASKETS | | ACCEPTANCE | CA 7 | |
| ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 | 9 | SEALANTS | | ACCEPTANCE | QPL 4 | |
| BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SAME AS ABOVE ACCEPTANCE CD 1 & 7 SLOTTED DRAIN PIPE SAME AS ABOVE ACCEPTANCE CD 1 & 7 | O | METAL PIPE | | | | |
| CORRUG. ALUMINUM PIPE & PIPE ARCH CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SLOTTED DRAIN PIPE SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | ASBESTOS BONDED CORRUG. STEEL PIPE & PIPE ARCH | VISUAL INSPECTION BY | PE ACCEPTANCE | CD 1 & 7 | |
| CORRUG. STEEL PIPE & PIPE ARCH SAME AS ABOVE ACCEPTANCE CD 1 & 7 SLOTTED DRAIN PIPE SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | BITUMINOUS COATED CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| SLOTTED DRAIN PIPE SAME AS ABOVE ACCEPTANCE CD 1 & 7 | | CORRUG. ALUMINUM PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| | | CORRUG. STEEL PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| STRUCTURAL DIATE DIDE & DIDE ADOLL SAME AS AROVE ACCEPTANCE ON 1 & 7 | | SLOTTED DRAIN PIPE | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| SINUCIONAL FLAIL FIFE & PIFE ARCH SAME AS ABOVE ACCEPTANCE OD 1 & 7 | | STRUCTURAL PLATE PIPE & PIPE ARCH | SAME AS ABOVE | ACCEPTANCE | CD 1 & 7 | |
| VITRIFIED CLAY PIPE SAME AS ABOVE ACCEPTANCE | | VITRIFIED CLAY PIPE | SAME AS ABOVE | ACCEPTANCE | | |

| | CONCRETE FRESH (MINOR STRUCTURE) | | |
|----|-----------------------------------|--|----------------|
| | MIX RELEASE | 1 / MIX TYPE / SOURCE MOT REQUIRED IF QUAN PER CLASS LESS | THAN 50 CU YDS |
| | COMPRESSIVE STRENGTH | 3 CYL / 50 CU YDS ACCEPTANCE | |
| | COVERS, FRAMES, GRATES | ACCEPTANCE | CA 6 |
| | GASKET MATERIALS | | |
| | FLEXIBLE PLASTIC GASKET | ACCEPTANCE | QPL 4 |
| | MARHOLE STEPS | 1 / TYPE ACCEPTANCE | QPL 26 |
| | MORTAR | | |
| | CEMENT, SAND, & WATER | VISUAL INSPECTION BY PE ACCEPTANCE | |
| 96 | PRECAST REINFORCED CONCRETE UNITS | VISUAL INSPECTION BYPE | CD 1 & 7 |
| | REINFORCEMENT | | |

14.00

FREQUENCY

1 / SHIPMENT

SEE ITEM 723(02)

1 / 25,000 / TYPE

1 / SIZE / TYPE / SHIPMENT

1 / SIZE / TYPE / SHIPMENT OF NOT MORE THAN 50 TONS

1 / TYPE

OF NOT MORE THAN 50 TONS ACCEPTANCE

PURPOSE

NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR

ACCEPTANCE

ACCEPTANCE

ACCEPTANCE

MATERIAL AND CONTRACT QUANTITY

ITEM 702(04) A CATCH BASINS

BRICK

ASPHALTIC VARNISH

BACKFILL (SOIL)

BARS

CHAIRS

TIE BARS

ELLULULULUUN EED DAA BAADADA BAADA B

SAMPLES 39

REQUIRED _ | TAKEN

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 40 |
|-----------------------------------|--|------------------|------------------|--------|
| ITEM 702(04) B CATCH BASINS 4.00 | NO OF SAMPLES MAY BE | CHANGED ON THE J | UDGEMENT OF THE | ENGR |
| ASPHALTIC VARNISH | 1 / SHIPMENT | ACCEPTANCE | | |
| BACKFILL (SOIL) | SEE ITEM 723(02) | | | |
| BRICK | 1 / 25,000 / TYPE | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURC NOT REQUIRED IF QUAN | | HAN 50 CU YDS | |
| COMPRESSIVE STRENGTH | 3 CYL / 50 CU YDS | ACCEPTANCE | | |
| COVERS, FRAMES, GRATES | • | ACCEPTANCE | CA 6 | |
| GASKET MATERIALS | | | | |
| FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | QPL 4 | |
| MANHOLE STEPS | 1 / TYPE | ACCEPTANCE | QPL 26 | |
| MORTAR | | | | |
| CEMENT, SAND, & WATER | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| PRECAST REINFORCED CONCRETE UNITS | VISUAL INSPECTION BY | PE | CD 1 & 7 | |
| REINFORCEMENT | | | | |
| BARS | 1 / SIZE / TYPE / SH OF NOT MORE THAN 50 | | | |
| CHAIRS | f / TYPE | ACCEPTANCE | | |
| TIE BARS | 1 / SIZE / TYPE / SH OF NOT MORE THAN 50 | | | |

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| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMI REQUIRED | LES TAKE |
|-----------------------------------|------|--|-------------------|------------------|----------------|
| ITEM 702(04) C CATCH BASINS | 8.00 | NO OF SAMPLES MAY | BE CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| ASPHALTIC VARNISH | | 1 / SHIPMENT | ACCEPTANCE | | |
| BACKFILL (SDIL) | | SEE ITEM 723(02) | | | |
| BRICK | | 1 / 25,000 / TYPE | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | | | | |
| MIX RELEASE | | 1 / MIX TYPE / SOUI NOT REQUIRED IF QUA | | THAN 50 CU YDS | |
| COMPRESSIVE STRENGTH | | 3 CYL / 50 CU YDS | ACCEPTANCE | | |
| COVERS, FRAMES, GRATES | | | ACCEPTANCE | CA 6 | |
| GASKET MATERIALS | | | | | |
| FLEXIBLE PLASTIC GASKET | | | ACCEPTANCE | QPL 4 | |
| MANHOLE STEPS | | 1 / TYPE | ACCEPTANCE | QPL 26 | |
| MORTAR | | | | | |
| CEMENT, SAND, & WATER | , | VISUAL INSPECTION E | BY PE ACCEPTANCE | | |
| PRECAST REINFORCED CONCRETE UNITS | , | VISUAL INSPECTION E | 3YPE | CD 1 & 7 | |
| REINFORCEMENT | | | | | |
| BARS | | 1 / SIZE / TYPE / S OF NOT MORE THAN 50 | | | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | | |
| TIE BARS | | 1 / SIZE / TYPE / S OF NOT MORE THAN 50 | | | |

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| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES TAKE |
|-----------------------------------|------------------------------------|--|----------------|------------------|-------------|
| ITEM 702(04) D CATCH BASINS | 1.00 | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| ASPHALTIC VARNISH | # = = = = = = = = = = = = = | 1 / SHIPMENT | ACCEPTANCE | | |
| BACKFILL (SOIL) | | SEE ITEM 723(02) | | Ì | |
| BRICK | | 1 / 25,000 / TYPE | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | | | | |
| MIX RELEASE | | 1 / MIX TYPE / SOURCE NOT REQUIRED IF QUAN (| PER CLASS LESS | THAN 50 CU YDS | |
| COMPRESSIVE STRENGTH | , | 3 CYL / 50 CU YDS | ACCEPTANCE | } | |
| COVERS, FRAMES, GRATES | | | ACCEPTANCE | CA 6 | |
| GASKET MATERIALS | | | | | |
| FLEXIBLE PLASTIC GASKET | | | ACCEPTANCE | QPL 4 | |
| MANHOLE STEPS | | 1 / TYPE | ACCEPTANCE | QPL 26 | |
| MORTAR | | | | | |
| CEMENT, SAND, & WATER | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| PRECAST REINFORCED CONCRETE UNITS | | VISUAL INSPECTION BYPE | E | CD 1 & 7 | |
| REINFORCEMENT | | | | | |
| BARS | | 1 / SIZE / TYPE / SHIP OF NOT MORE THAN 50 TO | | | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | | |
| TIE BARS | | 1 / SIZE / TYPE / SHIF OF NOT MORE THAN 50 TO | | | |

| 1 | FREQUENCY | PURPOSE | SAMPLES REQUIRED TAK | LES 43 TAKEN |
|---|---|-------------------------|-------------------------|-----------------|
| 11 13 16 10 11 11 | 00 · T | CHANGED ON THE J | UDGEMENT OF THE | ENGR |
| essessingeneralisessessessessessessessessessessessesses | 1 / SHIPMENT | ACCEPTANCE | | |
| BACKFILL (SOIL) | SEE ITEM 723(02) | | | |
| витск | 1 / 25,000 / TYPE | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE NOT REQUIRED IF QUAN PER CLASS LESS THAN 50 CU YDS | : PER CLASS LESS T | HAN 50 CU YDS | |
| COMPRESSIVE STRENGTH | 3 CYL / 50 CU YDS | ACCEPTANCE | | |
| COVERS, FRAMES, GRATES | | ACCEPTANCE | CA 6 | |
| GASKET MATERIALS | | | | |
| FLEXIBLE PLASTIC GASKET | | ACCEPTANCE | 0PL 4 | |
| MANNOLE STEPS | 1 / TYPE | ACCEPTANCE | 0PL 26 | |
| MORTAR | | | | |
| CEMENT, SAND, & WATER | VISUAL INSPECTION BY PE | PE ACCEPTANCE | | |
| PRECASI REINFORCED CONCRETE UNITS | VISUAL INSPECTION BYPE | ū | CD 1 & 7 | |
| REINFORCEMENT | | | | |
| BARS | 1 / SIZE / TYPE / SHIPMENT OF NOT MORE THAN 50 TONS ACCEPTANCE | PMENT ONS ACCEPTANCE | | |
| CHAIRS | 1 / TYPE | ACCEPTANCE | | |
| TIE BARS | 1 / SIZE / TYPE / SHIPMENT OF NOT MORE THAN 50 TONS | PMENT ONS | | |
| | | | = | |

| MATERIAL AND CONTRACT QUANTITY | ¢ | FREQUENCY | PURPOSE | SAMF REQUIRED |
|--------------------------------------|----------------|-------------------------------------|---------------|------------------|
| | | | | |
| ITEM 704(03) BLOCKED OUT GUARD RAIL | 2262.50 LIN FT | NO OF SAMPLES MAY BE CH | IANGED ON THE | JUDGEMENT OF THE |
| CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | |
| GALVANIZING REPAIR COMPOUND | | 1 / TYPE VISUAL INSPECTION BY PE | ACCEPTANCE | |
| HARDWARE | | | | |
| ACCESSORIES, BOLTS, END ANCHOR RODS, | | | | |
| FITTINGS, NUTS, AND WASHERS | | 1 / SIZE / TYPE / SHIPM | ACCEPTANCE | |
| METAL BEAM RAIL | | | ACCEPTANCE | CA 3 |
| POSTS AND SPACER BLOCKS | | | | |
| CONCRETE | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 |
| STEEL | | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 |
| WOOD | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 |
| TIMBER RAIL | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 |
| WIRE ROPE AND FITTINGS | | VISUAL INSPECTION BY PE | ACCEPTANCE | сс з |
| | | | | , |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED 17 | LES 45 TAKEN |
|--|---|-------------------|------------------------|-----------------|
| 112.50 | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | IANGED ON THE JE | JOGEMENT OF THE | ENGR |
| ## ## ## ## ## ## ## ## ## ## ## ## ## | see ITEM 805(1-8) | ACCEPTANCE | | |
| GALVANÍZING REPAIR COMPOUND | 1 / TYPE VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| HARDWARF | | | | |
| ACCESSORIES, BOLTS, END ANCHOR RODS, | | | | |
| FITTINGS, NUTS, AND WASHERS | 1 / SIZE / IYPE / SHIPMENT A | ENT ACCEPTANCE | | |
| METAL BEAM RAIL | | ACCEPTANCE | CA 3 | |
| PUSIS AND SPACER BLOCKS | | | | |
| CONCRETE | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| SIEEL | VISUAL INSPECTION BY PE | ACCEPTANCE | C A 3 | |
| WOOD | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| IIMBER RAIL | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| WIRE ROPE AND FITTINGS | VISUAL INSPECTION BY PE | ACCEPTANCE | e 22 | |
| | | | _ | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPI REQUIRED | LES 4 |
|--|-------------------------------------|---------------|-------------------|--------------|
| ITEM 704(06) GUARD RAIL ANCHOR SECTIONS (TRAILING END) 6.20 LIN FT | == NO OF SAMPLES MAY BE CH | HANGED ON THE | JUDGEMENT OF THE | ENGR |
| CONCRETE-FRESH (MINOR STRUCTURE) | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| GALVANIZING REPAIR COMPOUND | 1 / TYPE VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| HARDWARE | | | | |
| ACCESSORIES, BOLTS, END ANCHOR RODS, | A (0175 / TVD5 / 014704 | ICA T | | |
| FITTINGS, NUTS, AND WASHERS | 1 / SIZE / TYPE / SHIPM | ACCEPTANCE | | |
| METAL BEAM RAIL | | ACCEPTANCE | CA 3 | |
| POSTS AND SPACER BLOCKS | | | | |
| CONCRETE | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| STEEL | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | 1 |
| WOOD | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| TIMBER RAIL | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| WIRE ROPE AND FITTINGS | VISUAL INSPECTION BY PE | ACCEPTANCE | CC 3 | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 47 TAKEN |
|---|-------------------------------------|--------------|------------------|-------------------|
| ITEM 704(07) GUARD RAIL BRIDGE ATTACHMENTS 37.50 LIN F | NO OF SAMPLES MAY BE CH | ANGED ON THE | JUDGEMENT OF THE | ENGR |
| CONCRETE-FRESH (MINOR STRUCTURE) | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| GALVANIZING REPAIR COMPOUND . | 1 / TYPE VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| HARDWARE | | | | |
| ACCESSORIES, BOLTS, END ANCHOR RODS, | | | | |
| FITTINGS, NUTS, AND WASHERS | 1 / SIZE / TYPE / SHIPM | ACCEPTANCE | | |
| METAL BEAM RAIL | | ACCEPTANCE | CA 3 | |
| POSTS AND SPACER BLOCKS | | | | |
| CONCRETE | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| STEEL | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | } |
| WOOD | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| TIMBER RAIL | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| WIRE ROPE AND FITTINGS . | VISUAL INSPECTION BY PE | ACCEPTANCE | сс з | |

| | | | | | 9 | AMPLES 48 |
|---|---------------------------------------|---------------|-------------------------------|---------------------|----------------|-----------|
| | MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
| | TEM 704(08) GUARD RAIL TRANSITIONS | 450.00 LIN FT | NO OF SAMPLES MAY | BE CHANGED ON THE | JUDGEMENT OF T | HE ENGR |
| | CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| | GALVANIZING REPAIR COMPOUND | | 1 / TYPE VISUAL INSPECTION | ACCEPTANCE BY PE | | |
| | HARDWARE | | | | | |
| | ACCESSORIES, BOLTS, END ANCHOR RODS, | | . / 2275 / 7475 / | 0.11.04.54.5 | | |
| | FITTINGS, NUTS, AND WASHERS | | 1 / SIZE / TYPE / | ACCEPTANCE | | |
| | METAL BEAM RAIL | | | ACCEPTANCE | CA 3 | |
| | POSTS AND SPACER BLOCKS | | | | | |
| | CONCRETE | | VISUAL INSPECTION | BY PE ACCEPTANCE | CD 1 & 7 | |
| | STEEL | | VISUAL INSPECTION | BY PE ACCEPTANCE | CA 3 | |
| | WOOD | | VISUAL INSPECTION | BY PE ACCEPTANCE | CD 1 & 7 | |
| 1 | TIMBER RAIL | | VISUAL INSPECTION | BY PE ACCEPTANCE | CD 1 & 7 | |
| ภ | WIRE ROPE AND FITTINGS | | VISUAL INSPECTION | BY PE ACCEPTANCE | CC 3 | |
| | | | | | | 11 |

| | GATES | VISUAL INSPECTION BY PE | ACCEPTANCE |
|-----|--|-------------------------|------------|
| | GATE HARDWARE | 1 / TYPE | ACCEPTANCE |
| | MESH (WOVEN) WIRE | 1 / LOT OR SHIPMENT | ACCEPTANCE |
| 10 | METAL FASTENERS | 1 / TYPE / SHIPMENT | ACCEPTANCE |
| 000 | STEEL: BRACES, GATE POSTS, GATE STOPS, | 1 / TYPE / LOT | |

FREQUENCY

1 / LOT OR SHIPMENT

VISUAL INSPECTION BY PE ACCEPTANCE

VISUAL INSPECTION BY PE ACCEPTANCE

VISUAL INSPECTION BY PE ACCEPTANCE

1 / TYPE / SIZE

1 / TYPE / LOT OR SHIPMENT

1 / TYPE / LOT OR SHIPMENT

1 / LOT OR SHIPMENT

OR SHIPMENT

1 / ITEM

14265.00 LIN FT

PURPOSE

NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR

ACCEPTANCE

ACCEPTANCE

ACCEPTANCE

ACCEPTANCE

ACCEPTANCE

ACCEPTANCE

ACCEPTANCE

CC 1

CD 1 & 7

QPL 23

MATERIAL AND CONTRACT QUANTITY

POSTS WITH ANCHOR PLATES

WOOD: BRACES, GATE POSTS, GATE STOPS POSTS, STOP POSTS

HOG RINGS, TENSION WIRE, WIRE FABRIC TIES, WIRE TIES

ITEM 705(06) B

CHAIN LINK FENCE

(___-F00T_HEIGHT)

FABRIC

CHAIN LINK FENCE AND GATES

FITTINGS AND MISC HARDWARE

GATES FRAMES, POSTS, RAILS

CONCRETE-FRESH (MINOR STRUCTURE)

FIELD & LINE TYPE FENCE
BARBED WIRE

GALVANIZING REPAIR COMPOUND

GROUND ROD, WIRE & CLAMP

GROUND ROD ASSEMBLY

SAMPLES

REQUIRED | TAKEN

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| _ = = | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPI REQUIRED | LES 50 TAKEN |
|-------|---|-------------------------------|--------------|-------------------|-----------------|
| | ITEM 705(06) C CHAIN LINK FENCE 700.80 LIN FT (F00T HEIGHT) | NO OF SAMPLES MAY BE CHA | ANGED ON THE | JUDGEMENT OF THE | ENGR |
| | CHAIN LINK FENCE AND GATES | - | | | |
| | FABRIC | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| | FITTINGS AND MISC. HARDWARE | 1 / TYPE / SIZE | ACCEPTANCE | | i |
| | GATES FRAMES, POSTS, RAILS | 1 / TYPE / LOT OR SHIPMENT | ACCEPTANCE | | |
| | HOG RINGS, TENSION WIRE, WIRE FABRIC TIES, WIRE TIES | 1 / TYPE / LOT OR SHIPMENT | ACCEPTANCE | | |
| | CONCRETE-FRESH (MINOR STRUCTURE) | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| | FIELD & LINE TYPE FENCE | | | | } |
| | BARBED WIRE | 1 / LOT OR SHIPMENT | ACCEPTANCE | | <u>.</u> |
| | GATES | VISUAL INSPECTION BY PE | ACCEPTANCE | CC 1 | |
| 10 | GATE HARDWARE | 1 / TYPE | ACCEPTANCE | Ī | } |
| 7 | MESH (WOVEN) WIRE | 1 / LOT OR SHIPMENT | ACCEPTANCE | | i L |
| | METAL FASTENERS | 1 / TYPE / SHIPMENT | ACCEPTANCE | | } |
| | STEEL: BRACES, GATE POSTS, GATE STOPS, POSTS WITH ANCHOR PLATES | 1 / TYPE / LOT OR SHIPMENT | ACCEPTANCE | | |
| | WOOD: BRACES, GATE POSTS, GATE STOPS POSTS, STOP POSTS | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| | GALVANIZING REPAIR COMPOUND | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL 23 | ļ |
| | GROUND ROD ASSEMBLY | | | | |
| | GROUND ROD, WIRE & CLAMP | 1 / ITEM | ACCEPTANCE | | |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAM REQUIRED | PLES TAKEN |
|---|-------------------------------|--------------|------------------|------------------|
| ITEM 705(08) FOOT DOUBLE GATES FOR CHAIN LINK FENCE 4.00 (FOOT HEIGHT) | NO OF SAMPLES MAY BE CH | ANGED ON THE | JUDGEMENT OF THE | ENGR |
| CHAIN LINK FENCE AND GATES | | | | |
| FABRIC | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| FITTINGS AND MISC. HARDWARE | 1 / TYPE / SIZE | ACCEPTANCE | | |
| GATES FRAMES, POSTS, RAILS | 1 / TYPE / LOT OR SHIPMENT | ACCEPTANCE | | |
| HOG RINGS, TENSION WIRE, WIRE FABRIC TIES, WIRE TIES | 1 / TYPE / LOT OR SHIPMENT | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| FIELD & LINE TYPE FENCE | | | | |
| BARBED WIRE | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| GATES | VISUAL INSPECTION BY PE | ACCEPTANCE | CC 1 | |
| GATE HARDWARE | 1 / TYPE | ACCEPTANCE | | |
| MESH (WOVEN) WIRE | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| METAL FASTENERS | 1 / TYPE / SHIPMENT | ACCEPTANCE | | |
| STEEL: BRACES, GATE POSTS, GATE STOPS, POSTS WITH ANCHOR PLATES | 1 / TYPE / LOT OR SHIPMENT | ACCEPTANCE | | |
| WOOD: BRACES, GATE POSTS, GATE STOPS POSTS, STOP POSTS | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 8 7 | |
| GALVANIZING REPAIR COMPOUND | VISUAL INSPECTION BY PE | ACCEPTANCE | QPL 23 | |
| GROUND ROD ASSEMBLY | | | | |
| GROUND ROD, WIRE & CLAMP | 1 / ITEM | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAM REQUIRED | PLES TAKE | 52 N |
|--|----------------|----------------------|------------------|------------------|-----------------|---------|
| ITEM 706(01) A CONCRETE WALK (4" THICK) | 1205.10 SQ YDS | NO OF SAMPLES MAY BE | E CHANGED ON THE | JUDGEMENT OF THE | ENGR | |
| CONCRETE~FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | | | |
| CURING MATERIALS | | SEE ITEM 601(01) | ACCEPTANCE | | | |
| JOINT FILLER | | | | | | |
| PREFORMED EXPANSION TYPE | | 1 / 5000 LIN FT | ACCEPTANCE | | | |
| REINFORCEMENI | | SEE ITEM 601(01) AND | 0 601(02) | | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED 11 | SAMPLES 53 |
|----------------------------------|--|--------------------|----------------------|------------|
| | ======================================= | | | |
| 11EM 706(02) C | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE FINGR | CHANGED ON THE JUD | GEMENT OF THE | NGR |
| (6" THICK) | | | | |
| | n n | | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| CURING MATERIALS | SEE ITEM 601(01) | ACCEPTANCE | | |
| JOINT FILLER | | | | |
| PREFORMED EXPANSION TYPE | 1 / 5000 LIN FT | ACCEPTANCE | | |
| RE INFORCEMENT | SEE ITEM 601(01) AND 601(02) | 01(02) | | |
| | | | | |

| | | | | SAMF | LES 5 | 4 |
|---|----------------|----------------------|--------------------|---------------|-------|---|
| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN | |
| ITEM 706(03) A INCIDENTAL CONCRETE PAVING (4" THICK) | 3572.00 SQ YDS | NO OF SAMPLES MAY BE | CHANGED ON THE JUD | GEMENT OF THE | ENGR | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | Ţ | | |
| CURING MATERIALS | | SEE ITEM 601(01) | ACCEPTANCE | | | |
| JOINT FILLER | | | | | | |
| PREFORMED EXPANSION TYPE | | 1 / 5000 LIN FT | ACCEPTANCE | | | |
| REINFORCEMENT | | SEE ITEM 601(01) AND | 601(02) | | | |
| | | | | ! | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 55 TAKEN |
|----------------------------------|----------------|--------------------------------------|-----------------|------------------|-----------------|
| ITEM 707(01) CONCRETE CURB | 6149.10 LIN FT | NO OF SAMPLES MAY BE | CHANGED ON THE | UDGEMENT OF THE | ENGR |
| BACKFILL | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | | - |
| CURING MATERIALS | | SEE ITEM 601(01) | ACCEPTANCE | | İ |
| JOINI FILLER | | SEE 11EM 601(1-2) | ACCEPTANCE | | |
| JOINT SEALS (PREFORMED) | | | | | |
| ELASTOMERIC COMPRESSION | | 1 / 6000 LIN FT / LOT SIZE / TYPE | / ACCEPTANCE | CA QPL 6 | |
| STEEL REINFORCED ELASTOMERIC | | | ACCEPTANCE | CC & CA 3 | |
| LUBRICANT ADHESIVE | | 1 / ADHESIVE LOT | ACCEPTANCE | | |
| REINFORCEMENT | | | | | |
| DOWEL BARS AND ASSEMBLIES | | 1 / SHIPMENT / JOINT | TYPEACCEPTANCE | | |
| SEALANI | | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES TAKEN |
|--|----------------|-------------------------------------|------------------|------------------|--------------|
| ITEM 707(03) COMBINATION CURB AND GUTTER | 1165.00 LIN FT | NO OF SAMPLES MAY BI | E CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| BACKFILL | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| CURING MATERIALS | | SEE ITEM 601(01) | ACCEPTANCE | | |
| JOINT FILLER | | SEE ITEM 601(1-2) | ACCEPTANCE | | |
| JOINT SEALS (PREFORMED) | | | | | |
| ELASTOMERIC COMPRESSION | | 1 / 6000 LIN FT / LO SIZE / TYPE | OT / ACCEPTANCE | CA QPL 6 | |
| STEEL REINFORCED ELASTOMERIC | | | ACCEPTANCE | CC & CA 3 | |
| LUBRICANT ADHESIVE | | 1 / ADHESIVE LOT | ACCEPTANCE | | |
| REINFORCEMENT | | | | | |
| DOWEL BARS AND ASSEMBLIES | | 1 / SHIPMENT / JOIN | TYPEACCEPTANCE | | |
| SEALANT | | 1 / BATCH OR SHIPMEN | IT ACCEPTANCE | CA | |
| RIGHT-OF-WAY MARKER | 77.00 | | | | |
| RIGHT-OF-WAY MARKERS | | VISUAL INSPECTION BY | PE ACCEPTANCE | . CD 1 & 7 | Ì |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUI | - | PLES TAKE | 57 EN |
|--|---|---------------------------|---------|-----|-----------------|----------|
| ITEM 712(01) CONCRETE CAST-IN-PLACE REVETMENT 6528.00 SQ YDS | NO OF SAMPLES MAY BE CHAI | NGED ON THE JUDGE | MENT OF | THE | ENGR | |
| CELLULAR CONCRETE BLOCKS | 1 / 50,000 / TYPE | ACCEPTANCE | CD 1 8 | 7 | | |
| CELLULAR CONCRETE BLOCK MATTRESS | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 8 | . 7 | | |
| CONCRETE-FRESH (MINOR SIRUCTURE) | | | | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | | | | |
| CAST-IN-PLACE (CLASS R) DR SACKED (CLASS R OR OTHER) | 3 CYL / MIX | ACCEPTANCE | | | | |
| JOINT FILLER | 1 / 5000 LIN FT / TYPE | | | | | |
| PLASTIC FILTER CLOTH | 1 / TYPE | ACCEPTANCE | QPL 17 | , | | |
| SACKS | 1 / TYPE / SOURCE | ACCEPTANCE | | | | |
| SIONE | DOCUMENTED VISUAL INSPEC GRADATION CHECK | TION AND/OR Acceptance | QPL 2 | 2 | | |

| | | | SAME | |
|--|--------------------------|----------------|------------------|-------|
| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
| ITEM 713(01) TEMPORARY SIGNS AND BARRICADES 1 | .00 NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| ALIGNMENT DELINEATORS | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| BARRICADE WARNING LIGHTS | 1 / TYPE | ACCEPTANCE | CC 1 QPL 16 | |
| DRUMS | VISUAL INSPECTION BY | PE ACCEPTANCE | i | |
| PORTABLE FLASHER SUPPORTS | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| TEMPORARY PAVEMENT MARKINGS | | | i | |
| STRIPING TAPE | 1 / SHIPMENT | ACCEPTANCE | | |
| TEMPORARY SIGNS & BARRICADES | | | | |
| BACKING MATERIALS | VISUAL INSPECTION BY | PE ACCEPTANCE | ! | |
| BARRICADES | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| SHEETING MATERIAL | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| | | | | |

| | | | | | | SAM | PLES | 59 |
|---|----------|---------------------|--------|--------------|-------------|--------|----------------|----|
| MATERIAL AND CONTRACT QUANTITY | <u> </u> | FREQUENCY | | PURPOSE | REQL | IRED | TAK | EN |
| ITEM 713(02) TEMPORARY PAVEMENT MARKINGS | 1.00 | NO OF SAMPLES MAY | ВЕ СНА | ANGED ON THE | JUDGEMENT | OF THE | ENGR | |
| ALIGNMENT DELINEATORS | | VISUAL INSPECTION | BY PE | ACCEPTANCE | 9 | | | |
| BARRICADE WARNING LIGHTS | | 1 / TYPE | | ACCEPTANCE | CC 1 QPL | | | |
| DRUMS | \ | VISUAL INSPECTION | BY PE | ACCEPTANCE | | | | |
| PURTABLE FLASHER SUPPORTS | • | VISUAL INSPECTION | вү ре | ACCEPTANCE | | | | |
| TEMPORARY PAVEMENT MARKINGS | | | | | | | | |
| STRIPING TAPE | 1 | 1 / SHIPMENT | | ACCEPTANCE | * | | , | |
| TEMPORARY SIGNS & BARRICADES | | | | | | | | |
| BACKING MATERIALS | • | VISUAL INSPECTION | ВУ РЕ | ACCEPTANCE | | | | |
| BARRICADES | V | VISUAL INSPECTION | ВУ РЕ | ACCEPTANCE | | | | |
| SHEETING MATERIAL | V | /ISUAL INSPECTION (| BY PE | ACCEPTANCE | | | | |
| | | | | | | | ı | |

| SAMPLES 60 REQUIRED TAKEN | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | | ш |
|---------------------------|---|--|-------------------------------|
| PURPOSE | ES MAY BE CHANGED ON TH | VISUAL INSPECTION BY PE ACCEPTANCE OR ROADWAY DEVELOPMENT PERSONNEL | ACCEPTANCE |
| į | <u> </u> | | 1 / SOURCE IF QUESTIONABLE |
| | M 00.88 | | WATER |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | S REQUIRED | AMPLES 61 |
|------------------------------------|------------|--|----------------|----------------|-----------|
| IIEM 716(01) VEGALATIVE MULCH | 171.28 GAL | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF T | HE ENGR |
| EMULSIFIED ASPHALT | | • | | | |
| ANIONIC & CATIONIC | | | ACCEPTANCE | CD 1 & 7 | |
| VEGATIVE MULCH | | VISUAL INSPECTION BY ROADSIDE DEVELOPMENT | = | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMF REQUIRED | PLES 62 |
|---------------------------------|---|--|----------------|------------------|---------|
| ITEM 716(02) EMULSIFIED ASHPLAT | 25650.00 GAL | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| EMULSIFIED ASPHALT | ======================================= | = | | | |
| ANIONIC & CATIONIC | | | ACCEPTANCE | CD 1 & 7 | |
| VEGATIVE MULCH | | VISUAL INSPECTION BY ROADSIDE DEVELOPMENT | | 9 | |

| MATERIAL AND CONTRA | ACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES 63 REQUIRED TAKEN |
|-------------------------|--------------|--|----------------|-----------------------------|
| ITEM 717(O1) SEEDING | 2672.00 LBS | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE ENGR |
| SEED | | ANALYSIS TAG FROM LA DEPT OF AGRICULTUR | RE ACCEPTANCE | |
| WATER | | 1 / SOURCE IF QUESTIONABLE | ACCEPTANCE | |

| MATERIAI AND CONTRACT CHANTITY | | | SAME | SAMPLES 64 |
|---|---|------------------|----------------|--------------|
| ###################################### | FREQUENCY | PURPOSE | REQUIRED TAKEN | TAKEN |
| ITEM 718(O1) FERTLIZER | ND OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | ANGED ON THE JUD | GEMENT OF THE | ENGR |
| полительный применени | "= VISUAL INSPECTION BY PE | | | |
| | PE TO RECIEVE CA | ACCEPTANCE | CA 1 | |
| LIME, AGRICULTURAL | 1 / SOURCE / SHIPMENT | ACCEPTANCE | | |

| | | | SAME | SAMPLES 65 |
|--|---|-------------------|---------------|------------|
| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
| | Ħ | | - | |
| 720(01) | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | HANGED ON THE JUI | GEMENT OF THE | ENGR |
| FIBER GLASS ROVING 14541.00 LBS | | | | |
| RADIO BURGO BURGO PUNTO CONTROLO BURGO PUNTO BURGO BURGO BURGO PUNTO BURGO BURGO PUNTO BURGO BURGO PUNTO BURGO BURGO BURGO PUNTO BURGO BUR | | | (| |
| ASPIALT CEMENT | | ACCEPTANCE | CD 1 8 7 | |
| | | | | |
| EMULSIFIED ASPHALT | | | | |
| ANIONIC AND CAIIONIC | | ACCEPTANCE | CD 187 | |
| | | 1000 | | |
| FIBER GLASS ROVING | 1 / LOI OR SHIPMENI | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | | PURPOSE | REQU | | SAMP D | LES TAKE | 66 N |
|--------------------------------------|--------------|-----------------|--------|----------------|-----------|------|-----------|---------------|---------|
| ITEM 720(02) ASPHALTIC MATERIAL | 14541.00 GAL | NO OF SAMPLES M | MAY BE | CHANGED ON THE | JUDGEMENT | OF 1 | THE | ENGR | |
| ASPHALT CEMENT | | • | | ACCEPTANCE | CD 1 | 8 7 | 7 | | |
| EMULSIFIED ASPHALT | | | | | | | | | |
| ANIONIC AND CATIONIC | | | | ACCEPTANCE | CD 1 | 8 7 | 7 | 1 | |
| FIBER GLASS ROVING | | 1 / LOT OR SHIP | MENT | ACCEPTANCE | | | | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMPLES 67 REQUIRED TAKEN |
|--|---------|--|--------------------|-----------------------------|
| ITEM 725(01) TEMPORARY DETOUR BRIDGES | 1158.30 | NO OF SAMPLES MAY BE | CHANGED ON THE JUD | DEMENT OF THE ENGR |
| BASE COURSE (ROADWAY) | | MATERIAL SHALL CONFO REQUIREMENTS FOR TYP | | 1 |
| SURFACE COURSE (ROADWAY) | | MATERIAL SHALL CONFO REQUIREMENTS FOR TYP | | |
| LEMPURARY PAVEMENT MARKINGS | | 1 / SHIPMENT | ACCEPTANCE | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMPLE REQUIRED | S 68 TAKEN |
|------------------------------------|--------------|----------------------|----------------|---------------------|---------------|
| ITEM 728(01) JACKED OR BORED PIPE | 71.00 LIN FT | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE EN | IGR |
| MORTAR | | | | | |
| CEMENT, SAND AND WATER | | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| PIPE | | SEE ITEM 701(1-28) | ACCEPTANCE | 11 | |

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| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 69 TAKEN |
|--|-------------|-------------------------------|--------------|------------------|-----------------|
| ITEM 729(14) HAZARD MARKER ASSEMBLY | 34.00 SQ FT | NO OF SAMPLES MAY BE CH | ANGED ON THE | JUDGEMENT OF THE | I ENGR |
| BACKFILL (SOIL) | | : VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | | | | |
| MIX RELEASE | | 1 / MIX TYPE / SOURCE | | | |
| COMPRESSIVE STRENGTH | | 3 CYL / 50 CU YD\$ | ACCEPTANCE | | |
| DELINEATORS | | 1 / TYPE / SHIPMENT | ACCEPTANCE | | |
| GALVINIZING REPAIR COMPOUND | | 1 / TYPE | ACCEPTANCE | | |
| GROUND ROD ASSEMBLY (GROUND ROD, WIRE & CLAMP) | | 1 / ITEM | ACCEPTANCE | | |
| GUARD RAIL & DEAD END ROAD INSTALLATION | | | | } | |
| CONCRETE POSTS & SPACER BLOCKS | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| HARDWARE | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| METAL BEAM RAIL | | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | |
| STEEL POSTS | | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | |
| TIMBER | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| WOOD POSTS & SPACE BLOCKS | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| HARDWARE (BOLTS, FASTENERS, FITTINGS, NUTS, WASHERS & MISC.) | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| HAZARD MARKERS | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 6 | |
| MILEPOST MARKERS | | 1 / SHIPMENT | ACCEPTANCE | CC 1 | |
| MOUNTING (OVERHEAD) | | INSPECTED PRIOR TO USE | ACCEPTANCE | | |
| PAINT (FIELD & SHOP) | | 1 / BATCH OR 500 GALS | ACCEPTANCE | QPL 12 QPL 37 | |
| PILING (TIMBER) | | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| REINFORCEMENT | | | | ì | |
| BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCPETANCE | | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | | |
| STIRRUPS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |

| | | | | SAMP | LES | 70 |
|---|---|--------------------------------|-------------|--------|------|----|
| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQU | IRED | TAK | EN |
| ITEM 729(14) SIGN LIGHTING MATERIALS | NO OF SAMPLES MAY BE CHASEE SECTION 730 | ANGED ON THE JUD ACCEPTANCE | GEMENT | OF THE | ENGR | |
| STEEL POSTS (SIGN, MARKER & DELINEATOR) | 1 / SHIPMENT | ACCEPTANCE | | | | |
| TRAFFIC SIGNS | | | | , | | |
| ALUMINUM PANELS | 1 / THICKNESS / HEAT | ACCEPTANCE | CA 6 | | | |
| SIGN & MARKER SHEETING | INSPECTED PRIOR TO USE | ACCEPTANCE | CA 6 QPL | | | |
| STEEL PANELS | 1 / THICKNESS / HEAT | | CA 6 | | | |
| STRUCTURAL ALUM. & STEEL | INSPECTETED PRIOR TO USE 1 / GRADE | ACCEPTANCE VERIFICATION | CA 6 | | | |
| WELDING (FIELD & SHOP) | INSPECTED PRIOR TO USE 1 / WELDING PROCESS | ACCEPTANCE VERIFICATION | | | | |
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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLE REQUIRED | S 71 TAKEN |
|--|-------------------------------|--------------|---------------------|---------------|
| ITEM 729(17) B DEAD END ROAD INSTALLATIONS 1.00 | NO OF SAMPLES MAY BE CH | ANGED ON THE | JUDGEMENT OF THE EN | NGR |
| BACKFILL (SOIL) | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | | [] | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | | |
| COMPRESSIVE STRENGTH | 3 CYL / 50 CU YDS | ACCEPTANCE | }} | |
| DELINEATORS | 1 / TYPE / SHIPMENT | ACCEPTANCE | | |
| GALVINIZING REPAIR COMPOUND | 1 / TYPE | ACCEPTANCE | | |
| GROUND ROD ASSEMBLY (GROUND ROD, WIRE & CLAMP) | 1 / ITEM | ACCEPTANCE | | |
| GUARD RAIL & DEAD END ROAD INSTALLATION | | | | |
| CONCRETE POSTS & SPACER BLOCKS | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| HARDWARE | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| METAL BEAM RAIL | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | |
| STEEL POSTS | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | |
| TIMBER | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| WOOD POSTS & SPACE BLOCKS | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| HARDWARE (BOLTS, FASTENERS, FITTINGS, NUTS, WASHERS & MISC.) | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| HAZARD MARKERS | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 6 | |
| MILEPOST MARKERS | 1 / SHIPMENT | ACCEPTANCE | CC 1 | |
| MOUNFING (OVERHEAD) | INSPECTED PRIOR TO USE | ACCEPTANCE | | |
| PAINT (FIELD & SHOP) | 1 / BATCH OR 500 GALS | ACCEPTANCE | QPL 12 QPL 37 | |
| PILING (TIMBER) | VISUAL INSPECTION BY PE | ACCEPTANCE | CD 1 & 7 | |
| REINFORCEMENT | | | | |
| BARS | 1 / SIZE / TYPE / SHIPMENT | ACCPETANCE | | |
| CHAIRS | 1 / TYPE | ACCEPTANCE | | |
| STIRRUPS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIR | SAMP ED | LES TAK | 72 (EN |
|---|---|-------------------------------|----------------|------------|--------------|-----------|
| ITEM 729(17) B SIGN LIGHTING MATERIALS | NO OF SAMPLES MAY BE CHA SEE SECTION 730 | NGED ON THE JUD ACCEPTANCE | GEMENT OF | THE | ENGR | |
| STEEL POSTS (SIGN, MARKER & DELINEATOR) | 1 / SHIPMENT | ACCEPTANCE | | Ì | | |
| TRAFFIC SIGNS | | | | | } | |
| ALUMINUM PANELS | 1 / THICKNESS / HEAT | ACCEPTANCE | CA 6 | ļ | | |
| SIGN & MARKER SHEETING | INSPECTED PRIOR TO USE | ACCEPTANCE | CA 6 QPL 13 | . | | |
| STEEL PANELS | 1 / THICKNESS / HEAT | | CA 6 | | 1 | • |
| STRUCTURAL ALUM. & STEEL | INSPECTETED PRIOR TO USE 1 / GRADE | ACCEPTANCE VERIFICATION | CA 6 | | | |
| WELDING (FIELD & SHOP) | INSPECTED PRIOR TO USE 1 / WELDING PROCESS | ACCEPTANCE VERIFICATION | | | | |

| | | | | SAMP | PLES 73 |
|----------------------------------|----------------|------------------------|-------------------|------------------|-----------|
| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
| # # 1 | | | | . ======== | 1-12/12/1 |
| ITEM 733(01) A | ŧ | NO OF SAMPLES MAY BE | CHANGED ON THE | NIDCEMENT OF THE | ENICO |
| | 661.30 LIN FT | NO OF SAMELES MAT BE | CHANGED DIV THE U | ODGEMENT OF THE | ENGR |
| MEDIAN KONDEN UNKKER | BOI. SO LIN FI | | | i | |
| | | | | | i |
| BARRIER (PRECAST) | | VISUAL INSPECTION BY | PE ACCEPTANCE | CD 1 | |
| | | | | h | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | 1 | 1 |
| | | 000 11200 000(1 0) | ACCEL TANCE | 1 | |
| CURING MATERIALS | | CEE 1754 005(1 0) | | Ī | 1 |
| CONTING MATERIALS | | SEE ITEM 805(1-8) | ACCEPTANCE | 1 | 1 |
| | | | | i | Ì |
| JUINI MATERIALS | | SEE ITEMS 601(1) AND | | 1 | ì |
| | | 805(1-8) | ACCEPTANCE | 1 | ľ |
| | | | ACCE TARGE | 1 | 1 |
| REINFORCEMENT | | | | | l . |
| NE THE GROUP INTO | | | | | İ |
| DECOMED DESCRIPTION | | | | Į. | 1 |
| DEFORMED STEEL BARS | | 1 / SIZE / TYPE / | | j | 1 . |
| | | SHIPMENT | ACCEPTANCE | ţ | |
| | | | | ŀ | |
| SPECIAL SURFACE FINISH | | | | 1 | } |
| | | | | i | |
| MASONRY FINISH | | 1 / 107 08 01/10/15/17 | |) | 1 |
| MA JOHN I TIMI 311 | | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 14 | |
| | | | | ļ | 1 |
| | | | | • | • |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | LES 74 |
|---------------------------------------|---------------|-------------------------------|---------------|------------------|----------|
| ITEM 733(01) B MEDIAN ROADWAY BARRIER | 222.50 LIN FT | NO OF SAMPLES MAY BE C | HANGED ON THE | JUDGEMENT OF THE | ENGR |
| BARRIER (PRECAST) | | VISUAL INSPECTION BY P | E ACCEPTANCE | CD 1 | |
| CONCRETE-FRESH (MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| CURING MATERIALS | | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| JOINT MATERIALS | | SEE ITEMS 601(1) AND 805(1-8) | ACCEPTANCE | | |
| REINFORCEMENT | • | | | | |
| DEFORMED STEEL BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| SPECIAL SURFACE FINISH | | | | | |
| MASONRY FINISH | | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 14 | |

| SAMPLES 75 D TAKEN | ENGR | | | |
|--------------------------------|---|----------|-------------------------------------|-----------------|
| SAMP | JUDGEMENT OF THE | | | |
| PURPOSE | BE CHANGED ON THE | | CATION ACCEPTANCE | ACCEPTANCE |
| FREQUENCY | NO DF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | | 1 / TOP LAYER / LOCATION ACCEPTANCE | 1 / 1000 CU YDS |
| ANTITY | 477.00 CU YDS | 1 | | |
| MATERIAL AND CUNIRACT QUANTITY | IIEM 802(01) SIRUGIURAL EXCAVATION | BACKFILL | DENSITY | S011. |

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| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED |
|---|-------------|----------------------------------|-----------------------------|-------------------|
| M 805(01) SS A CONCRETE 15 | 5.97 CU YDS | NO OF SAMPLES MAY BE CHA | ANGED ON THE JUD | GEMENT OF THE |
| DMIXTURES (AIR-ENTRAINING, WATER-REDUCING (NORMAL 8 | | 1 / ADMIXTURE / LOT | ACCEPTANCE | QPL 1 |
| GGREGATES (FINE & COARSE) | | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| ACKFILL | | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| ACKING MATERIAL FOR JOINT SEALS | | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| EARING AND EXPANSION PLATES (BRONZE & ROLLED COPPER | R-ALLOY) | | ACCEPTANCE | CA 2 OR 4 |
| EARING PADS | | | | |
| ELASTOMERIC | | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| MASONRY | | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 |
| EMENT (HYDRAULIC) | | | | |
| TYPES I(B), II, IP (STRUCTURAL) I, I(B), II, IP (PRECAST) | | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 |
| TYPE III (PRECAST) | | 1 / SHIPMENT | ACCEPTANCE | |
| DNCRETE-FRESH (STRUCTURAL) | | | | |
| MIX RELEASE | | 1 / MIX TYPE / SOURCE | | |
| AIR | | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 1 |
| SLUMP | | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 1 1 |
| FLEXURE | 1 | WHEN SPECIFIED | VERIFICATION | |
| TEMPERATURE | | | PROJ. CONT. | |
| COMPRESSIVE STRENGTH | | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 1 |
| ONCRETE-CURED (STRUCTURAL) | | | | |
| SURFACE TEST | 1 | EACH DECK | PROJ. CONT. | |
| SURFACE TEXTURE | : | 2 / LOT | PROJ. CONT. | |
| DNCRETE-FRESH (MINOR STUCTURE) | | | | |
| MIX RELEASE | | 1 / MIX / SOURCE | | |
| COMPRESSIVE STRENGTH' | ; | 3 CYL / MIX | ACCEPTANCE | |

| SAMPLES 77 REQUIRED TAKEN | DGEMENT OF THE ENGR | | | | | QPL 32 | | | CD 1 8 6 | | | | CA 3 QPL 5 | | CA QPL 6 | 9 Jdb | | | CD 1 & 6 | | | | | | |
|------------------------------|---|------------------|---|----------------------------------|---------------------|---------------------|----------------|-------------------------|------------------------|---------------|---|----------------------------|-----------------------|------------------------|--|--------------------|---------------------------|---------------------------|------------------------|------------|---------------|--------------|-------------------------------|------------|---------------------------|
| PURPOSE | NGED ON THE JU | | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | ! |
| | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE | | 1 / SHIPMENT | 1 / BATCH | | 1 / LOT OR SHIPMENT | 1 / MIX DESIGN | VISUAL INSPECTION BY PE | INSPECTED PRIOR TO USE | | 1 / 5000 LIN FT | | 1 / BATCH OR SHIPMENT | | 1 / 6000 LIN FT / LOT / SIZE / TYPE | 1 / 101 | | VISUAL INSPECTION BY PE | INSPECTED PRIOR TO USE | | | 1 / SHIPMENT | t / SIZE / TYPE / SHIPMENT | 1 / TYPE | 1 / SHIPMENT / |
| | оветительный приментический как в приментический в приментический в предоставлений в приментический в предоставлений в предоставлений в предоставлений в предоставлений в предоставлений в предоставлений в приментический в предоставлений в приментический в приме | CURING MATERIALS | BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WAIERPRUOF PAPER, WHITE POLYETHYLENE SHEETING | LIQUID MEMBRANE FORMING COMPOUND | LPUXT RESIN SYSTEMS | EPXOY | EPXOY CONCRETE | FORM RELEASE AGENT | GIRDERS (CONCRETE) | JOINT FILLERS | PREFORMED BITUMINOUS & MON-BITUMINOUS CELLULAR, PREFORMED RESILIENI BITUMINOUS & NON-BITUMINOUS | JOINT SEAL (LIQUID POURED) | POLYURETHANE POLYMER | JOINI SEAL (PREFORMED) | ELASIOMERIC COMPRESSION | LUBRICANT ADHESIVE | PRECAST PRESTRESSED FORMS | BEARING STRIPS & ADHESIVE | CONCRETE FORMS | PRIMER | REINFORCEMENT | BAR MATS | BARS | CHAIRS | LOAD TRANSMISSION DEVICES |

| | | | | SAME | | 78 |
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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUI | RED _ | TAKE | N |
| | = | - | | | | |
| ITEM 805(01) TIE BARS | NO OF SAMPLES MAY BE C 1 / SIZE / TYPE / | CHANGED ON THE | JUDGEMENT D | F THE | ÉNGR | |
| | SHIPMENT | ACCEPTANCE | | | ļ | |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 1 | 4 | | |
| STEEL JOINT | INSPECTED PRIOR TO USE | ACCEPTANCE | | | | • |
| WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | | | |
| WATER STOPS | | | | | | |
| COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY P | E ACCEPTANCE | CA 3 | | | |
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| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAM REQUIRED |
|-----------------|--|----------------------------------|-----------------------------|-------------------|
| I I Ct BC | TEM 805(01) B SLASS A CONCRETE 751.91 CU Y SOX CULVERTS | DS NO OF SAMPLES MAY BE CH | ANGED ON THE JUD | GEMENT OF THE |
| _ | ADMIXTURES (AIR-ENTRAINING, WATER-REDUCING (NORMAL & RETARDI | | ACCEPTANCE | QPL 1 |
| | AGGREGATES (FINE & COARSE) | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| | BACKETTI | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| | BACKING MATERIAL FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| | BEARING AND EXPANSION PLATES (BRONZE & ROLLED COPPER-ALLOY) | | ACCEPTANCE | CA 2 DR 4 |
| | BEARING PADS | | | |
| | ELASTOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| | MASUNRY | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 |
| | CEMENT (HYDRAULIC) | | | |
| | <pre>fypes I(B), II, IP (STRUCTURAL) I, I(B), II, IP (PRECAST)</pre> | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 |
| | TYPE III (PRECAST) | 1 / SHIPMENT | ACCEPTANCE | |
| | CONCRETE-FRESH (STRUCTURAL) | | | |
| | MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| | AIR | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 4 8 |
| | SLUMP | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 4 8 |
| | FLEXURE | WHEN SPECIFIED | VERIFICATION | |
| | TEMPERATURE | | PROJ. CONT. | |
| | COMPRESSIVE STRENGTH | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 23 |
| | CONCRETE-CURED (STRUCTURAL) | | | |
| | SURFACE TEST | EACH DECK | PROJ. CONT. | |
| | SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | |
| | CONCRETE-FRESH (MINOR STUCTURE) | | | |
| | MIX RELEASE | 1 / MIX / SOURCE | | |

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| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED |
|--|---|--|----------------------------|--------------------|
| | ITEM 805(01) B COMPRESSIVE STRENGTH | NO OF SAMPLES MAY BE CHA | ANGED ON THE ACCEPTANCE | JUDGEMENT OF THE E |
| | CURING MATERIALS | | | İ |
| | BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| | LIQUID MEMBRANE FORMING COMPOUND | 1 / BATCH | ACCEPTANCE | |
| | EPOXY RESIN SYSTEMS | | | |
| | EPXOY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| | EPXOY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | |
| | FORM RELEASE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| | GIRDERS (CONCRETE) | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| | JOINT FILLERS | | | |
| | PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS | 1 / 5000 LIN FT | ACCEPTANCE | |
| | JOINT SEAL (LIQUID POURED) | | | |
| | POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 |
| | JOINT SEAL (PREFORMED) | | | |
| | ELASTOMERIC COMPRESSION | 1 / GOOO LIN FT / LOT / SIZE / TYPE | ACCEPTANCE | CA QPL 6 |
| | LUBRICANT ADHESIVE | 1 / LOT | ACCEPTANCE | QPL 8 |
| | PRECAST PRESTRESSED FORMS | | | |
| | BEARING STRIPS & ADHESIVE | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| | CONCRETE FORMS | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| | PRIMER | | ACCEPTANCE | |
| | REINFORCEMENT | | | |
| | BAR MATS | 1 / SHIPMENT | ACCEPTANCE | |
| | BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | |
| | CHAIRS | 1 / TYPE | ACCEPTANCE | |
| | LOAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 |

| MATERIAL AND CONIRACT QUANTITY | FREQUENCY | PURPOSE | SAMF REQUIRED | SAMPLES 81 D TAKEN |
|----------------------------------|---|---------------|------------------|--------------------------|
| FILE BOS (O.1) B | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | NGED ON THE J | UDGEMENT OF THE | ENGR |
| TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 14 | |
| STEEL JOINE | INSPECTED PRIOR TO USE | ACCEPTANCE | | |
| WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |
| WAFER STOPS | | | | |
| COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY PE ACCEPTANCE | ACCEPTANCE | CA 3 | |

| | MATERIAL AND CONTRA | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 82 TAKEN |
|-----|--|-------------------------------------|----------------------------------|-----------------------------|-------------------|-----------------|
| | ITEM 805(01) F CLASS A CONCRETE BENTS | 2283.90 CU YDS | NO OF SAMPLES MAY BE CHA | ANGED ON THE JUDG | GEMENT OF THE | ENGR |
| = = | | WATER-REDUCING (NORMAL & RETARDING) | | ACCEPTANCE | QPL 1 | ĺ |
| | AGGREGATES (FINE & COARSE) | | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 | |
| | BACKFILL | | VISUAL INSPECTION BY PE | ACCEPTANCE | |] |
| | BACKING MATERIAL FOR JOINT S | SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 | |
| | BEARING AND EXPANSION PLATES | G (BRONZE & ROLLED COPPER-ALLOY) | | ACCEPTANCE | CA 2 OR 4 | |
| | BEARING PADS | | | | | |
| | ELASTOMERIC | | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 | |
| | MASONRY | | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 | ļ |
| | CEMENT (HYDRAULIC) | | | | | |
| 139 | TYPES I(B), II, IP (STR I, I(B), II, IP (| | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 | |
| | TYPE III (PRECAST) | | 1 / SHIPMENT | ACCEPTANCE | | |
| | CONCRETE-FRESH (STRUCTURAL) | | | | | } |
| | MIX RELEASE | | 1 / MIX TYPE / SOURCE | | } | |
| | AIR | | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 12 23 | |
| | SLUMP | | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 12 23 | |
| | FLEXURE | | WHEN SPECIFIED | VERIFICATION | | |
| | TEMPERATURE | | | PROJ. CONT. | | |
| | COMPRESSIVE STRENGTH | | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 69 | |
| | CONCRETE-CURED (STRUCTURAL) | | | | | |
| | SURFACE TEST | | EACH DECK | PROJ. CONT. | | |
| | SURFACE TEXTURE | | 2 / LOT | PROJ. CONT. | | |
| | CONCRETE-FRESH (MINOR STUCTU | URE) | | | | |
| | MIX RELEASE | | 1 / MIX / SOURCE | | | |

| SAMPLES B3 REQUIRED TAKEN | THE ENGR | | · · · · · · · · · · · · · · · · · · · | | | | | | 9 | | | | | | | | | | 9 | | | | | | |
|-----------------------------|--|------------------|---|----------------------------------|---------------------|---------------------|----------------|-------------------------|------------------------|---------------|---|----------------------------|-----------------------|------------------------|--|--------------------|---------------------------|---------------------------|------------------------|------------|---------------|--------------|-------------------------------|------------|------------------------------|
| REQUIRE | JUDGEMENT OF THE | | | | | QPL 32 | | | CD 1 & | | | | CA 3 QPL 5 | | CA QPL 6 | 0P1 8 | | | CD 1 8 | | | | | | 9PL 15 |
| PURPOSE | CHANGED ON THE ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE | ACCEPTANCE |
| FREQUENCY | NO OF SAMPLES MAY BE 3 CYL / MIX | | 1 / SHIPMENT | 1 / BATCH | | 1 / LOT OR SHIPMENT | 1 / MIX DESIGN | VISUAL INSPECTION BY PE | INSPECTED PRIOR TO USE | | 1 / 5000 LIN FT | | 1 / BATCH OR SHIPMENT | | 1 / 6000 LIN FT / LOT / SIZE / TYPE | 1 / 101 | | VISUAL INSPECTION BY PE | INSPECTED PRIOR TO USE | | | 1 / SHIPMENT | 1 / SIZE / TYPE / SHIPMENT | 1 / TYPE | 1 / SHIPMENT / JOINT TYPE |
| ERIAL AND CUNIRACI QUANTITY | TIEM 805(01) F CUMPRESSIVE STRENGTH | CURING MATERIALS | BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING | LIQUID MEMBRANE FORMING COMPOUND | EPOXY RESIN SYSTEMS | Ł PXOY | EPXOY CONCRETE | FORM RELEASE AGENT | GIRDERS (CONCRETE) | JOINF FILLERS | PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENI BITUMINOUS & NON-BITUMINOUS | JOINI SEAL (LIQUID POURED) | POLYURETHANE POLYMER | JOINT SEAL (PREFORMED) | ELASTUMERIC COMPRESSION | LUBRICANT ADHESIVE | PRECAST PRESTRESSED FORMS | BEARING STRIPS & ADHESIVE | CONCRETE FORMS | PRIMER | REINFORCEMENT | BAR MATS | BARS | CHAIRS | LOAD TRANSMISSION DEVICES |

| | | | | SAME | PLES | 84 |
|----------------------------------|--------------------------------|----------------|-------------|-------|----------|----|
| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUI | RED | TAK | EN |
| ITEM 805(01) F | = NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT O | F THE | ENGR | |
| TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | | |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 1 | 4 | | |
| STEEL JOINT | INSPECTED PRIOR TO US | E ACCEPTANCE | | | | |
| WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | | | |
| WATER STOPS | | | | | | |
| COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY | PE ACCEPTANCE | CA 3 | | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMI REQUIRED |
|---|---------------------------------|--------------------------------|-------------------|
| TEM 805(03) CLASS AA CONCRETE | 3065 CU YDS NO OF SAMPLES I | MAY BE CHANGED ON THE JUDG | GEMENT OF THE |
| ADMIXTURES (AIR-ENTRAINING, WATER-REDUCING (NORM | | / LOT ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKFILL | VISUAL INSPECT | ION BY PE ACCEPTANCE | |
| BACKING MATERIAL FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| BEARING AND EXPANSION PLATES (BRONZE & ROLLED CO | IPPER-ALLOY) | ACCEPTANCE | CA 2 OR 4 |
| BEARING PADS | | | |
| ELASTOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| MASONRY | 1 / TYPE / SIZ | E ACCEPTANCE | CA 5 |
| CEMENT (HYDRAULIC) | | | |
| TYPES I(B), 1I, IP (STRUCTURAL) I, I(B), II, IP (PRECAST) | 1 / LOAD 1 / SOURCE / PI | ACCEPTANCE ROJ VERIFICATION | CC 1 & 7 QPL 7 |
| TYPE III (PRECAST) | 1 / SHIPMENT | ACCEPTANCE | |
| CONCRETE FRESH (STRUCTURAL) | | | |
| MIX RELEASE | 1 / MIX TYPE / | SOURCE | |
| AIR | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 16 31 |
| SLUMP | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 16 31 |
| FLEXURE | WHEN SPECIFIED | VERIFICATION | |
| TEMPERATURE | | PROJ. CONT. | |
| COMPRESSIVE STRENGTH | 3 CYL / BATCH 2 BATCHES / LO | ACCEPTANCE T | 92 |
| CONCRETE-CURED (STRUCTURAL) | | | |
| SURFACE TEST | EACH DECK | PROJ. CONT. | |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | |
| CONCRETE-FRESH (MINOR STUCTURE) | | | |
| MIX RELEASE | 1 / MIX / SOUR | CE | |
| COMPRESSIVE STRENGTH | 3 CYL / MIX | ACCEPTANCE | |

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| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMF REQUIRED | LES TAK |
|------|---|--|----------------|------------------|------------|
| | 805(03) | NO OF SAMPLES MAY BE CHA | NGED ON THE JU | JOGEMENT OF THE | ENGR |
| CUR | RING MATERIALS | | | | |
| | BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | | |
| | LIQUID MEMBRANE FORMING COMPOUND | 1 / BATCH | ACCEPTANCE | | |
| EPO | XY RESIN SYSTEMS | | | | |
| | EPXOY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 | |
| | EPXOY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | | |
| FOR | M RELEASE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| GIR | DERS (CONCRETE) | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 | 1 |
| J0 I | NT FILLERS | | | • | |
| | PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS | 1 / 5000 LIN FT | ACCEPTANCE | | |
| 101 | NT SEAL (LIQUID POURED) | | | | |
| | POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 | |
| 101 | NT SEAL (PREFORMED) | | | | |
| | ELASTOMERIC COMPRESSION | 1 / 6000 LIN FT / LOT / SIZE / TYPE | ACCEPTANCE | CA QPL 6 | |
| LUB | RICANT ADHESIVE | 1 / LOT | ACCEPTANCE | QPL 8 | |
| PRE | CAST PRESTRESSED FORMS | | | | |
| | BEARING STRIPS & ADHESIVE | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| | CONCRETE FORMS | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 | |
| PRI | MER | | ACCEPTANCE | | |
| REI | NFORCEMENT | • | | | |
| | BAR MATS | 1 / SHIPMENT | ACCEPTANCE | | |
| | BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| | CHAIRS | 1 / TYPE | ACCEPTANCE | | |
| | LOAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAM REQUIRED | TAKEN |
|----------------------------------|---|-----------------|-----------------|-------|
| EM 805(03) [IE BARS | NO OF SAMPLES MAY BE CHA 1 / SIZE / TYPE / SHIPMENT | ANGED ON THE JU | DGEMENT OF THE | ENGR |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 14 | |
| SIEEL JOINT | INSPECTED PRIOR TO USE | ACCEPTANCE | | |
| WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |
| WATER STOPS | | | | |
| COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLE REQUIRED |
|---|----------------------------------|-----------------------------|--------------------|
| TEM 805(04) CLASS AA(M) CONCRETE 1064 CU YD | NO OF SAMPLES MAY BE CH | ANGED ON THE JUD | GEMENT OF THE EN |
| ADMIXTURES (AIR-ENTRAINING, WATER-REDUCING (NORMAL & RETARDIN | | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKFILL | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| BACKING MATERIAL FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| BEARING AND EXPANSION PLATES (BRONZE & ROLLED COPPER-ALLOY) | | ACCEPTANCE | CA 2 OR 4 |
| BEARING PADS | | | |
| ELASTOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| MASONRY | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 |
| CEMENT (HYDRAULIC) | | | |
| TYPES I(B), II, IP (STRUCTURAL) I. I(B), II, IP (PRECAST) | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 |
| TYPE III (PRECAST) | 1 / SHIPMENT | ACCEPTANCE | |
| CONCRETE-FRESH (STRUCTURAL) | | | 11 |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| AIR | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 6 |
| SLUMP | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 6 |
| FLEXURE | WHEN SPECIFIED | VERIFICATION | |
| TEMPERATURE | | PROJ. CONT. | |
| COMPRESSIVE STRENGTH | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 32 |
| CONCRETE-CURED (STRUCTURAL) | | | |
| SURFACE TEST | EACH DECK | PROJ. CONT. | |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | |
| CONCRETE-FRESH (MINOR STUCTURE) | | | 11 |
| MIX RELEASE | 1 / MIX / SOURCE | | |
| COMPRESSIVE STRENGTH | 3 CYL / MIX | ACCEPTANCE | |

| | AFERIAL AND CONFRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED TA |
|-------------|--|--|----------------|--------------------------|
| TEM 805(04) | | NO OF SAMPLES MAY BE CHA | NGED ON THE JU | DGEMENT OF THE ENGR |
| CURING MAT | ERIALS | | | |
| | P CLOTH, BURLAP & WHITE POLYETHYLENE, PROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| FIGUI | D MEMBRANE FORMING COMPOUND | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESI | N SYSTEMS | | | |
| FEXOX | | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| EPXOY | CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | |
| FORM RELEA | SE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| GIRDERS (C | ONCRETE) | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| JOINT FILL | ERS | | | |
| | RMED BITUMINOUS & NON-BITUMINOUS CELLULAR, RMED RESILIENT BITUMINOUS & NON-BITUMINOUS | 1 / 5000 LIN FT | ACCEPTANCE | |
| JOINE SEAL | (LIQUID POURED) | | | |
| POLYU | RETHANE POLYMER | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 |
| JOINT SEAL | (PREFORMED) | | | |
| ELAST | DMERIC COMPRESSION | 1 / 6000 LIN FT / LOT / SIZE / TYPE | ACCEPTANCE | CA QPL 6 |
| LUBRICANT | ADHESIVE | 1 / LOT | ACCEPTANCE | QPL 8 |
| PRECAST PR | ESTRESSED FORMS | | | |
| BEARI | NG STRIPS & ADHESIVE | VISUAL INSPECTION BY PE | ACCEPTANCE | <u> </u> |
| CONCR | ETE FORMS | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| PRIMER | | | ACCEPTANCE | |
| REINFORCEM | ENT . | | | |
| BAR M | ATS | 1 / SHIPMENT | ACCEPTANCE | |
| BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | |
| CHAIR | S | 1 / TYPE | ACCEPTANCE | . [] |
| LOAD | TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 |

| | MATERIAL AND CONTRACT CHANTELY | EDECHENOV | DUDDOCE | BEOU | _ | MPLES 90 TAKEN | |
|----|----------------------------------|---|----------------|----------|--------|----------------------|----|
| | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQU | IRED | IAK | EN |
| 11 | TEM 805(04) TIE BARS | NO OF SAMPLES MAY BE CHA 1 / SIZE / TYPE / SHIPMENT | NGED ON THE JU | JDGEMENT | OF THE | ENGR | |
| | SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL | 14 | | |
| | STEEL JOINT | INSPECTED PRIOR TO USE | ACCEPTANCE | | | | |
| | WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | | | |
| | WATER STOPS | | | | | | |
| | COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | | | |
| | POLYVINYL CHLORIDE | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | | | |
| | | | | | | | |

| QPL | 1 | - [|
|------------|-----|-----|
| QPL QPL | 2 2 | |
| QPL | 5 | |
| CA 2 | OR | 4 |
| | | |
| CA 5 | _ | |
| QPL | 3 | Ì |
| CA 5 | | - 1 |
| | | - 1 |

SAMPLES 91

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES 91 REQUIRED TAKEN |
|---|----------------------------------|-----------------------------|-----------------------------|
| ITEM 805(08) B PRECAST-PRESTRESSED CONCRETE GIRDERS 1389.10 LIN FT TYPE I | NO OF SAMPLES MAY BE CHA | NGED ON THE JUDGER | MENT OF THE ENGR |
| ADMIXTURES (AIR-ENTRAINING, WATER-REDUCING (NORMAL & RETARDING)) | 1 / ADMIXTURE / LOT | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKETUT | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| BACKING MATERIAL FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 |
| BEARING AND EXPANSION PLATES (BRONZE & ROLLED COPPER-ALLOY) | | ACCEPTANCE | CA 2 OR 4 |
| BEARING PADS | | | |
| ELASTOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| MASUNRY | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 |
| CEMENT (HYDRAULIC) | | | |
| TYPES I(B), II, IP (STRUCTURAL) I, I(B), II, IP (PRECAST) | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 |
| TYPE III (PRECAST) | 1 / SHIPMENT | ACCEPTANCE | |
| CONCRETE-FRESH (STRUCTURAL) | • | | \ |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | |
| AIR | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 7 |
| SLUMP | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 7 14 |
| FLEXURE | WHEN SPECIFIED | VERIFICATION | |
| TEMPERATURE | | PROJ. CONT. | |
| COMPRESSIVE STRENGTH | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 42 |
| CONCRETE-CURED (STRUCTURAL) | | | |
| SURFACE TEST | EACH DECK | PROJ. CONT. | |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | |
| CONCRETE-FRESH (MINOR STUCTURE) | | | |
| MIX RELEASE | 1 / MIX / SOURCE | | |

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| IND OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE E COMPRESSIVE STRENGTH CURING MATERIALS BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING LIGUID MEMBRANE FURMING COMPOUND 1 / BAICH ACCEPTANCE EPOXY RESIN SYSTEMS FPXOY 1 / LOT OR SHIPMENT ACCEPTANCE PORM RELEASE AGENT 1 / MIX DESIGN ACCEPTANCE FORM RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE CONCRETE INSPECTED PRIOR TO USE ACCEPTANCE OPL 8 6 JOINT FILLERS PREFORMED BITUMINOUS & NON-BITUMINOUS I / BAICH OR SHIPMENT ACCEPTANCE CD 1 8 6 JOINT SEAL (LIQUID PURRED) POLYURETHANE POLYMER JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / GOOD LIN FT ACCEPTANCE CA 3 OPL 5 LUBNICANT ADHISTIVE LUBNICANT ADHISTIVE VISUAL INSPECTION BY PE ACCEPTANCE OPL 6 LUBNICANT ADHISTIVE VISUAL INSPECTION BY PE ACCEPTANCE OPL 6 PRIMER BEARING STRIPS & ADHESIVE VISUAL INSPECTION BY PE ACCEPTANCE OPL 6 PRIMER REINFORCEMENT BARS 1 / SHIPMENT ACCEPTANCE CONCRETE FORMS 1 / SHIPMENT ACCEPTANCE CONCRETE FORMS ACCEPTANCE CD 1 8 6 PRIMER REINFORCEMENT LOAD TRANSMISSION DEVICES 0PL 15 | MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPI REQUIRED |
|--|----------------------------------|--------------------------|------------|-------------------|
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING LIQUIO MEMBRANE FORMING COMPOUND 1 / BAICH ACCEPTANCE EPOXY RESIN SYSTEMS FPXOY 1 / LOT OR SHIPMENT ACCEPTANCE 1 / MIX DESIGN ACCEPTANCE FORM RELEASE AGENT GIRDERS (CONCRETE) 1 / MIX DESIGN ACCEPTANCE FORM RELEASE AGENT GIRDERS (CONCRETE) 1 / MIX DESIGN ACCEPTANCE FORM RELEASE AGENT GIRDERS (CONCRETE) 1 / SIDELLERS PAPEDDIALD BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS SIDELLULAR, PREFORMED RESILIENT BITUMINOUS SIDELLULAR, PREFORMED SIDELLULAR, PREFOR | ITEM 805(08) B | NO OF SAMPLES MAY BE CHA | | JUDGEMENT OF THE |
| WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING LIQUID MEMBRANE FORMING COMPOUND 1 / BATCH ACCEPTANCE EPOXY RESIN SYSTEMS EPXOV 1 / LOT OR SHIPMENT ACCEPTANCE 1 / MIX DESIGN ACCEPTANCE FORM RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE GIRDERS (CONCRETE) JOINT FILLERS PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS JOINT SEAL (LIQUID POURED) POLYURETHANE POLYMER LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS REINFORCEMENT REINFORCEMENT REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SCCEPTANCE CD 1 & 6 ACCEPTANCE ACCEPTANCE CD 1 & 6 ACCEPT | CURING MATERIALS | | | |
| EPXDY RESIN SYSTEMS EPXDY | | 1 / SHIPMENT | ACCEPTANCE | |
| EPXOY EPXOY CONCRETE 1 / LOT OR SHIPMENT ACCEPTANCE FORM RELEASE AGENT VISUAL INSPECTION BY PE ACCEPTANCE GIRDERS (CONCRETE) JOINT FILLERS PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED BITUMINOUS & NON-BITUMINOUS POLYURETHANE POLYMER JOINT SEAL (LIQUID POURED) POLYURETHANE POLYMER ELASTOMERIC COMPRESSION LOT / SIZE / TYPE ACCEPTANCE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / SHIPMENT ACCEPTANCE 1 / SHIPMENT ACCEPTANCE COCEPTANCE COL 1 & 6 PRIMER ACCEPTANCE CD 1 & 6 CD | LIQUID MEMBRANE FORMING COMPOUND | 1 / BATCH | ACCEPTANCE | |
| FPXOY CONCRETE FORM RELEASE AGENT GIRDERS (CONCRETE) JOINT FILLERS PREFORMED BITUMINOUS & NON BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS POLYURETHANE POLYMER LOSTO SEAL (PREFORMED) ELASTOMERIC COMPRESSION LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS BARS 1 / SHIPMENT ACCEPTANCE LODA TRANSMISSION DEVICES 1 / SHIPMENT ACCEPTANCE LODA TRANSMISSION DEVICES 1 / SHIPMENT / LOT SHIPMENT ACCEPTANCE COL 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE ACCEPTANCE CD 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE CD 1 & 6 ACCEPTANCE CHAIRS LOAD TRANSMISSION DEVICES 1 / SHIPMENT ACCEPTANCE LOAD TRANSMISSION DEVICES | EPOXY RESIN SYSTEMS | | | |
| FORM RELEASE AGENT GIRDERS (CONCRETE) JOINT FILLERS PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR. PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS JOINT SEAL (LIQUID POURED) POLYURETHANE POLYMER LEASTOMERIC COMPRESSION LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE LUBRICANT ADIREST ACCEPTANCE LISTANCE LISTANCE ACCEPTANCE CD 1 & 6 CD 1 & CD 1 & CD CD 1 & CD 1 & CD CD 1 & CD 1 & CD CD 1 & CD 1 & CD CD 1 & CD 1 & C | EPXOY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| GIRDERS (CONCRETE) JOINT FILLERS PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS JOINT SEAL (LIQUID POURED) POLVURETHANE POLYMER JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / 6000 LIN FT / LOT / SIZE / TYPE ACCEPTANCE QPL 6 LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE LODA TRANSMISSION DEVICES 1 / SHIPMENT ACCEPTANCE ACCEPTANCE LODA TRANSMISSION DEVICES 1 / SHIPMENT / ACCEPTANCE LODA TRANSMISSION DEVICES 1 / SHIPMENT / | EPXOY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | |
| DOINT FILLERS PREFORMED BITUMINOUS & NON BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS JOINT SEAL (LIQUID POURED) POLYURETHANE POLYMER 1 / BATCH OR SHIPMENT ACCEPTANCE CA 3 OPL 5 JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / 6000 LIN FT / ACCEPTANCE OPL 6 LUDRICANT ADHESIVE 1 / LOT ACCEPTANCE OPL 8 PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE REINFORCEMENT BAR MATS 1 / SIZE / TYPE / ACCEPTANCE TO 1 & 6 PRIMER ACCEPTANCE CHAIRS 1 / SIZE / TYPE / ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SIZE / TYPE / ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | FORM RELEASE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS JOINT SEAL (LIQUID POURED) POLYURETHANE POLYMER 1 / BATCH OR SHIPMENT ACCEPTANCE CA 3 QPL 5 JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / GOOO LIN FT / LOT / SIZE / TYPE ACCEPTANCE QPL 8 PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE LODD TRANSMISSION DEVICES 1 / STIZE / TYPE / ACCEPTANCE LODD TRANSMISSION DEVICES 1 / SHIPMENT / | GIRDERS (CONCRETE) | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS JOINT SEAL (LIQUID POURED) PDLYURETHANE POLYMER 1 / BATCH OR SHIPMENT ACCEPTANCE CA 3 QPL 5 JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / 6000 LIN FT / LOT / SIZE / TYPE ACCEPTANCE QPL 6 LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | JOINT FILLERS | | | |
| POLYURETHANE POLYMER 1 / BATCH OR SHIPMENT ACCEPTANCE CA 3 QPL 5 JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / 6000 LIN FT / LOT / SIZE / TYPE ACCEPTANCE QPL 6 LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES ACCEPTANCE 1 / SHIPMENT ACCEPTANCE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | | 1 / 5000 LIN FT | ACCEPTANCE | |
| JOINT SEAL (PREFORMED) ELASTOMERIC COMPRESSION 1 / 6000 LIN FT / LOT / SIZE / TYPE ACCEPTANCE QPL 6 LUBRICANT ADHESIVE PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | JOINT SEAL (LIQUID POURED) | | | |
| ELASTOMERIC COMPRESSION 1 / 6000 LIN FT / LOT / SIZE / TYPE ACCEPTANCE QPL 6 LUBRICANT ADHESIVE 1 / LOT ACCEPTANCE QPL 8 PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | ACCEPTANCE | |
| LOT / SIZE / TYPE ACCEPTANCE QPL 6 LUBRICANT ADHESIVE 1 / LOT ACCEPTANCE QPL 8 PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE VISUAL INSPECTION BY PE ACCEPTANCE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE CD 1 & 6 PRIMER ACCEPTANCE REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | JOINT SEAL (PREFORMED) | | | |
| PRECAST PRESTRESSED FORMS BEARING STRIPS & ADHESIVE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE ACCEPTANCE REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | ELASTOMERIC COMPRESSION | | ACCEPTANCE | |
| BEARING STRIPS & ADHESIVE CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE CD 1 & 6 PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE 1 / STEE / TYPE / SHIPMENT ACCEPTANCE 1 / TYPE ACCEPTANCE 1 / STEE / TYPE / SHIPMENT / | LUBRICANT ADHESIVE | 1 / LOT | ACCEPTANCE | QPL 8 |
| CONCRETE FORMS INSPECTED PRIOR TO USE ACCEPTANCE ACCEPTANCE REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | PRECAST PRESTRESSED FORMS | | | |
| PRIMER REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | BEARING STRIPS & ADHESIVE | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| REINFORCEMENT BAR MATS 1 / SHIPMENT ACCEPTANCE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | CONCRETE FORMS | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| BAR MATS 1 / SHIPMENT ACCEPTANCE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | PRIMER | | ACCEPTANCE | į |
| BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | REINFORCEMENT | | | |
| SHIPMENT ACCEPTANCE CHAIRS 1 / TYPE ACCEPTANCE LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | BAR MATS | 1 / SHIPMENT | ACCEPTANCE | |
| LOAD TRANSMISSION DEVICES 1 / SHIPMENT / | BARS | | ACCEPTANCE | |
| | CHAIRS | 1 / TYPE | ACCEPTANCE | |
| · · · · · · · · · · · · · · · · · · · | LOAD TRANSMISSION DEVICES | | ACCEPTANCE | QPL 15 |

| MATERIAL AND CONTRACT QUANTILY ITEM 805(08) B | FREQUENCY NO OF SAMPLES MAY BE (| PURPOSE CHANGED ON THE | | IRED | PLES TAKE ENGR | 93 N |
|--|----------------------------------|------------------------|------|------|--------------------------|---------|
| TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | | |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL | 14 | | |
| STEEL JOINT | INSPECTED PRIOR TO USE | ACCEPTANCE | | | }} | |
| WAITK | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | | | |
| WATER STOPS | | | | | | |
| COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY F | PE ACCEPTANCE | CA 3 | | | |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPI REQUIRED | LES TAK |
|---|----------------------------------|-----------------------------|-------------------|------------|
| ITEM 805(08) C PRECAST-PRESTRESSED CONCRETE GIRDERS 2578.80 LIN FT TYPE I | NO OF SAMPLES MAY BE CH | ANGED ON THE JUDG | GEMENT OF THE | ENGR |
| ADMIXTURES (AIR-ENTRAINING, WATER-REDUCING (NORMAL & RETARDING)) | 1 / ADMIXTURE / LOT | ACCEPTANCE | QPL 1 | |
| AGGREGATES (FINE & COARSE) | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 | |
| BACKFILL | VISUAL INSPECTION BY PE | ACCEPTANCE | | ĺ |
| BACKING MATERIAL FOR JOINT SEALS | 1 / SHIPMENT | ACCEPTANCE | QPL 5 | |
| BEARING AND EXPANSION PLATES (BRONZE & ROLLED COPPER-ALLOY) | | ACCEPTANCE | CA 2 OR 4 | |
| BEARING PADS | | | | |
| ELASTOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 | |
| MASONRY | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 | |
| CEMENT (HYDRAULIC) | | | | |
| TYPES I(B). II. IP (STRUCTURAL) I, I(B), II, IP (PRECAST) | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 & 7 QPL 7 | |
| TYPE III (PRECAST) | 1 / SHIPMENT | ACCEPTANCE | | |
| CONCRETE-FRESH (STRUCTURAL) | | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | | | |
| AIR | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 13 26 | |
| SLUMP | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 13 26 | |
| FLEXURE | WHEN SPECIFIED | VERIFICATION | | |
| TEMPERATURE | | PROJ. CONT. | | |
| COMPRESSIVE STRENGTH | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 78 | |
| CONCRETE-CURED (STRUCTURAL) | | | | |
| SURFACE TEST | EACH DECK | PROJ. CONT. | | |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | | |
| CONCRETE-FRESH (MINOR STUCTURE) | | | j | |
| MIX RELEASE | 1 / MIX / SOURCE | | | |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED |
|---|--|---------------------------|-------------------|
| ITEM 805(08) C COMPRESSIVE STRENGTH | NO OF SAMPLES MAY BE CHA | NGED ON THE ACCEPTANCE | JUDGEMENT OF THE |
| CURING MATERIALS | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | |
| LIQUID MEMBRANE FORMING COMPOUND | 1 / BATCH | ACCEPTANCE | |
| EPOXY RESIN SYSTEMS | | | |
| EPXOY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 |
| EPXOY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | 1 |
| FORM RELEASE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| GIRDERS (CONCRETE) | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| JOINT FILLERS | | | |
| PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS | 1 / 5000 LIN FT | ACCEPTANCE | |
| JOINT SEAL (LIQUID POURED) | | | } |
| POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 |
| JOINI SEAL (PREFORMED) | | | Į. |
| ELASTOMERIC COMPRESSION | 1 / 6000 LIN FT / LOT / SIZE / TYPE | ACCEPTANCE | CA QPL 6 |
| EUBRICANT ADHESIVE | 1 / LOT | ACCEPTANCE | QPL 8 |
| PRECAST PRESTRESSED FORMS | | | |
| BEARING STRIPS & ADHESIVE | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| CONCRETE FORMS | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 |
| PRIMER | | ACCEPTANCE | |
| REINFORCEMENT | | | |
| BAR MATS | 1 / SHIPMENT | ACCEPTANCE | } } |
| BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | |
| CHAIRS | 1 / TYPE | ACCEPTANCE | 11 |
| LOAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 |
| | | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES SAMPLES SEQUIRED | SAMPLES 96 D TAKEN |
|----------------------------------|---|----------------|--------------------------|-----------------------|
| ITEM 805(08) C | NO OF SAMPLES MAY BE CHANGED ON THE JUDGEMENT OF THE ENGR | NGED ON THE JU | DGEMENT OF THE | ENGR |
| TIE BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 14 | s |
| STEEL JOINT | INSPECTED PRIOR TO USE | ACCEPTANCE | | |
| WATER | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |
| WATER STOPS | | | | |
| COPPER & RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY PE | ACCEPTANCE | CA 3 | |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED |
|--|----------------------------------|-----------------------------|-------------------|
| TIEM 805(08) D PRECASI PRESTRESSED CONCRETE GIRDERS TYPE I | NO OF SAMPLES MAY BE CHA | INGED ON THE JUDG | SEMENT OF THE EN |
| ADMIXIURES (AIR-ENTRAINING, WAIER-REDUCING (NORMAL & RETARDING)) | 1 / ADMIXTURE / LOT | ACCEPTANCE | QPL 1 |
| AGGREGATES (FINE & COARSE) | 1 / LOT 1 / DAY | PROJ. CONT. VERIFICATION | QPL 2 QPL 2 |
| BACKETET | VISUAL INSPECTION BY PE | ACCEPTANCE | |
| BACKING MATERIAL FOR JOINT SEALS | 1 / SHIPMENI | ACCEPTANCE | QPL 5 |
| BEARING AND EXPANSION PLATES (BRONZE & ROLLED COPPER-ALLOY) | | ACCEPTANCE | CA 2 DR 4 |
| BEARING PADS | | | |
| ELASTOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| MASONRY | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 |
| CEMENT (HYDRAULIC) | | | |
| TYPES I(B), II, IP (STRUCTURAL) I, I(B), II, IP (PRECAST) | 1 / LOAD 1 / SOURCE / PROJ | ACCEPTANCE VERIFICATION | CC 1 8 7 QPL 7 |
| TYPE III (PRECAST) | 1 / SHIPMENT | ACCEPTANCE | |
| CONCRETE-FRESH (STRUCTURAL) | | | |
| MIX RELEASE | 1 / MIX TYPE / SOURCE | |] } |
| AIR | 1 / LUT 2 / LOT | VERIFICATION PROJ. CONT. | 30 30 |
| SLUMP | 1 / LOT 2 / LOT | VERIFICATION PROJ. CONT. | 90 30 |
| FLEXURE | WHEN SPECIFIED | VERIFICATION | |
| TEMPERATURE | | PROJ. CONT. | |
| COMPRESSIVE STRENGTH | 3 CYL / BATCH 2 BATCHES / LOT | ACCEPTANCE | 180 |
| CONCRETE-CURED (STRUCTURAL) | | | |
| SURFACE TEST | EACH DECK | PROJ. CONT. | |
| SURFACE TEXTURE | 2 / LOT | PROJ. CONT. | |
| CONCRETE-FRESH (MINOR STUCTURE) | | | |
| MIX RELEASE | 1 / MIX / SOURCE | | |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED | ES TAK |
|---|--|---------------|-------------------|-----------|
| ITEM 805(08) D COMPRESSIVE STRENGTH | NO OF SAMPLES MAY BE CHA | NGED ON THE J | UDGEMENT OF THE E | NGR |
| CURING MATERIALS | | | | |
| BURLAP CLOTH, BURLAP & WHITE POLYETHYLENE, WATERPROOF PAPER, WHITE POLYETHYLENE SHEETING | 1 / SHIPMENT | ACCEPTANCE | | |
| LIQUID MEMBRANE FORMING COMPOUND | 1 / BATCH | ACCEPTANCE | | |
| EPOXY RESIN SYSTEMS | | | | |
| EPXOY | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 32 | |
| EPXOY CONCRETE | 1 / MIX DESIGN | ACCEPTANCE | | |
| FURM RELEASE AGENT | VISUAL INSPECTION BY PE | ACCEPTANCE | | |
| GIRDERS (CONCRETE) | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 | |
| JOINT FILLERS | | | | |
| PREFORMED BITUMINOUS & NON-BITUMINOUS CELLULAR, PREFORMED RESILIENT BITUMINOUS & NON-BITUMINOUS | 1 / 5000 LIN FT | ACCEPTANCE | | |
| JOINT SEAL (LIQUID POURED) | | | | |
| POLYURETHANE POLYMER | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA 3 QPL 5 | |
| JOINT SEAL (PREFORMED) | | | | |
| ELASTOMERIC COMPRESSION | 1 / 6000 LIN FT / LOT / SIZE / TYPE | ACCEPTANCE | CA QPL 6 | |
| LUBRICANT ADHESIVE | 1 / LOT | ACCEPTANCE | QPL 8 | |
| PRECAST PRESTRESSED FORMS | | | | |
| BEARING STRIPS & ADHESIVE | VISUAL INSPECTION BY PE | ACCEPTANCE | | ļ |
| CONCRETE FORMS | INSPECTED PRIOR TO USE | ACCEPTANCE | CD 1 & 6 | , |
| PRIMER | | ACCEPTANCE | | |
| REINFORCEMENT | | | | l |
| BAR MATS | 1 / SHIPMENT | ACCEPTANCE | | |
| BARS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | ļ |
| CHAIRS | 1 / TYPE | ACCEPTANCE | | ĺ |
| LOAD TRANSMISSION DEVICES | 1 / SHIPMENT / JOINT TYPE | ACCEPTANCE | QPL 15 | |
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| MAIFRIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED TAKEN | SAMPLES 99 D TAKEN |
|----------------------------------|---|-------------------|---------------------------|--------------------|
| | NO OF SAMPLES MAY BE CHANGED ON THE JÜDGEMENT OF THE ENGR | ANGED ON THE JUDG | SEMENT OF THE | ENGR |
| | \$ / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| SPECIAL SURFACE FINISH (MASONRY) | 1 / LOT OR SHIPMENT | ACCEPTANCE | 0PL 14 | |
| | INSPECTED PRIOR TO USE | ACCEPTANCE | | |
| | 1 / SOURCE IF NOT DRINKABLE | ACCEPTANCE | | |
| | | | | |
| COPPER 8 RUBBER | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| POLYVINYL CHLORIDE | VISUAL INSPECTION BY PE ACCEPTANCE | ACCEPTANCE | CA 3 | |

| | | | | | | | | | SAMP | LE2 | 100 |
|--------------------------------|---|---------|------------|------|---------|--------|-----------|-------|------|------|-----|
| MATERIAL AND CONTRACT QUANTITY | | FREQUEN | NC Y | | PUR | POSE | REC |)UIRE | ED | TAKE | N |
| | | : | | | | | | | | | |
| ITEM 805(09) | | NO OF S | SAMPLES MA | Y BE | CHANGED | ON THE | JUDGEMENT | OF | THE | ENGR | |
| EXPANSION JOINT SEAL | 1227,10 LIN FT | | | | | | | | } | | |
| FOR DETAILS SEE ITEM 601(1) | ======================================= | : | | | | | | | | | |
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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPLES REQUIRED TAKEN | 101 |
|---|-----------------------|----------------|--------------------------|-----|
| ITEM 805(10) A STEEL REINFORCED ELASTOMERIC EXPANSION JOINT SEAL 26.70 LIN FT | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE ENGR | |
| OOINT SEAL | | | | |
| STEEL REINFORCED ELASTOMERIC | | ACCEPTANCE | CC & CA 3 | |
| SEALANT | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA | |

| | | | | SAM | PLES 102 |
|--|---------------|-----------------------------|----------------|------------------|----------|
| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
| ITFM 805(10) B STEEL REINFORCED ELASTOMERIC EXPANSION JOINT SEAL | 199.40 LIN FT | = NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| JOINT SEAL | | • | | | |
| STEEL REINFORCED ELASTOMERIC | | | ACCEPTANCE | CC & CA 3 | |
| SEALANT | | 1 / BATCH OR SHIPMENT | ACCEPTANCE | CA | |
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| MATERIAL AND CUNTRACT QUANTIT | Υ | FREQUENCY | PURPOSE | SAMF REQUIRED | PLES TAKE | 103 EN |
|---|----------------|-------------------------------|----------------|------------------|--------------|-----------|
| TIEM 806(01) DEFORMED REINFORCING STEEL | 1527224.00 LBS | NO OF SAMPLES MAY BE C | CHANGED ON THE | JUDGEMENT OF THE | ENGR | |
| REINFORCEMENT | | · - | | | | |
| BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | | | |
| STIRRUPS, 11E BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | |
| SPLICING | | | | | | |
| MECHANICAL AND THERMIT BUTT SPLIC | E | 1 / SIZE / 25 SPLICES | ACCEPTANCE | | | |
| WELDED BUTT SPLICE | | INSPECTED PRIOR TO USE | ACCEPTANCE | | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIR | | LES TAKE | 104 N |
|----------------------------------|--|---|---|---|---|---|---|
| O1) X REINFORCING STEEL | 1.00 LBS | NO OF SAMPLES MAY B | E CHANGED ON THE | JUDGEMENT OF | THE | ENGR | |
| CEMENT | | | | | | | |
| RS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | | |
| HAIRS | | 1 / TYPE | ACCEPTANCE | | | | |
| IRRUPS, TIE BARS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | | |
| IG . | | | | | | | |
| CHANICAL AND THERMIT BUTT SPLICE | | 1 / SIZE / 25 SPLIC | ES ACCEPTANCE | | | | |
| LDED BUTT SPLICE | | INSPECTED PRIOR TO | USE ACCEPTANCE | | | | |
| | O1) X REINFORCING STEEL CEMENT RS AIRS IRRUPS, TIE BARS G CHANICAL AND THERMIT BUTT SPLICE | O1) X REINFORCING STEEL 1.00 LBS CEMENT RS AIRS IRRUPS, TIE BARS G CHANICAL AND THERMIT BUTT SPLICE | O1) X REINFORCING STEEL 1.00 LBS 1 / SIZE / TYPE / SHIPMENT AIRS 1 / TYPE IRRUPS, TIE BARS 1 / SIZE / TYPE / SHIPMENT 1 / SIZE / TYPE / SHIPMENT 1 / SIZE / TYPE / SHIPMENT 1 / SIZE / TYPE / SHIPMENT G CHANICAL AND THERMIT BUTT SPLICE 1 / SIZE / 25 SPLIC | NO OF SAMPLES MAY BE CHANGED ON THE REINFORCING STEEL 1.00 LBS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE IRRUPS, TIE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / 25 SPLICES ACCEPTANCE | O1) X REINFORCING STEEL 1.00 LBS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE ACCEPTANCE IRRUPS, TIE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / 25 SPLICES ACCEPTANCE | MATERIAL AND CONTRACT QUANTITY O1) X REINFORCING STEEL 1.00 LBS CEMENT RS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE IRRUPS, TIE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE | O1) X REINFORCING STEEL 1.00 LBS CEMENT RS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE IRRUPS, TIE BARS 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE 1 / SIZE / TYPE / SHIPMENT ACCEPTANCE |

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| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | REQUIRED |
|--|--|----------------------------|------------------|
| TEM 807(06) TRUCTURAL METALWORK 1.00 | NO OF SAMPLES MAY BE CH | IANGED ON THE JUD | GEMENT OF TH |
| BEARING & EXPANSION PLATES | :==== | | |
| BRONZE OR COPPER-ALLOY (ROLLED) | | ACCEPTANCE | CA 2 DR 4 |
| BEARING PLATES | | | |
| ELASIOMERIC | 1 / 100 PADS / TYPE / LOT | ACCEPTANCE | CA 5 QPL 3 |
| MASONRY | 1 / TYPE / SIZE | ACCEPTANCE | CA 5 |
| CANVAS | 1 / SHIPMENT | ACCEPTANCE | |
| CASTINGS | | | |
| DUCTILE & GRAAY IRON, MALLEABLE, STEEL | | ACCEPTANCE | CA 4 |
| CONCRETE ANCHOR STUDS | | ACCEPTANCE | CA 4 |
| FASTENERS (SHOP FABRICATION) | | | |
| BOLIS, NUTS, AND WASHERS | 1 / SIZE / SHIPMENT | ACCEPTANCE | CC 6 |
| HIGH STRENGTH BOLTS, NUTS, AND WASHERS | 1 / LOT | ACCEPTANCE | CC 6 |
| RIVEIS | 1 / LOT | ACCEPTANCE | cc e |
| STEEL LOCKPINS AND COLLARS | 1 / LOT | ACCEPTANCE | CC 6 |
| FASTENERS (FIELD FABRICATTION) | | | |
| BOLTS, NUTS AND WASHERS | 1 / LOT OR SHIPMENT | ACCEPTANCE | CC 2 |
| HIGH STRENGTH BOLTS, NUTS AND WASHERS | 1 / LOT | ACCEPTANCE | CC 2 |
| RIVETS | 1 / LOT | ACCEPTANCE | CC 2 |
| STEEL LOCKPINS AND COLLARS | 1 / LOT | ACCEPTANCE | CC 2 |
| PAINT (FIELD OR SHOP) | 1 / BATCH OR 500 GALS | ACCEPTANCE | QPL 12 QPL 37 |
| SHEAR CONNECTORS | | ACCEPTANCE | CA 4 |
| STEEL FORGINGS AND SHAFTING | | ACCEPTANCE | CA 6 |
| STRUCTURAL STEEL | 1 / GRADE | ACCEPTANCE VERIFICATION | CA 6 |
| TORQUE WRENCH | CAL, BY MAT, LAB. | ACCEPTANCE | |
| WELDING (FIELD OR SHOP) | INPSECTED PRIOR TO USE 1 / WELDING PROCESS | ACCEPTANCE VERIFICATION | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMPL REQUIRED |
|--|---|----------------------------|-------------------|
| ITEM 810(01) CONCRETE RAILING 5576.08 L | NO OF SAMPLES MAY BE C | CHANGED ON THE JU | DGEMENT OF THE |
| CONCRETE | SEE ITEM 805(1-8) | | |
| GALVANIZING REPAIR COMPOUND | 1 / TYPE | ACCEPTANCE | [] |
| HARDWARE (ALUMINUM AND GALVANIZED) | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | |
| METAL CASTINGS, FITTINGS, POSTS & RAILINGS | | | |
| STEEL, STEEL CHANNEL, ALUMINUM AND GALVINIZED PIPE | INSPECTED PRIOR TO USE | ACCEPTANCE | CA 6 |
| PAINT (FIELD & SHOP) | 1 / BATCH OR 500 GALS | ACCEPTANCE | QPL 12 QPL 37 |
| REINFORCEMENT (DEFORMED STEEL BARS) | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | |
| WELDING (FIELD & SHOP) | INSPECTED PRIOR TO USE 1 / WELDING PROCESS | ACCEPTANCE VERIFICATION | |

| | | | SAM | PLES 107 |
|---|---|----------------------------|------------------|------------|
| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | _ REQUIRED | TAKEN |
| # T = 6 = 8 = 1 = 1 = 2 = 2 = 4 = 2 = 4 = 2 = 4 = 2 = 4 = 4 | === | | | |
| ITEM 810(04) | NO OF SAMPLES MAY BE C | HANGED ON THE | JUDGEMENT OF THE | ENGR |
| PIPE RAILING 0.00 LIN F | | | | 1 |
| | === | | | i 1 |
| CONCRETE | SEE ITEM 805(1-8) | | | |
| GALVANIZING REPAIR COMPOUND | 1 / TYPE | ACCEPTANCE | | |
| HARDWARE (ALUMINUM AND GALVANIZED) | 1 / SIZE / TYPE / SHIPMENI | ACCEPTANCE | | |
| METAL CASTINGS, FITTINGS, POSTS & RATEINGS | | | | |
| STEEL, STEEL CHANNEL, ALUMINUM AND GALVINIZED PIPE | INSPECTED PRIOR TO USE | ACCEPTANCE | CA 6 | |
| PAINT (FIELD & SHOP) | 1 / BATCH OR 500 GALS | ACCEPTANCE | QPL 12 QPL 37 | |
| REINFORCEMENT (DEFORMED STEEL BARS) | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| WELDING (FIELD & SHOP) | INSPECTED PRIOR TO USE 1 / WELDING PROCESS | ACCEPTANCE VERIFICATION | V | |
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| | MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 108 TAKEN |
|-----|--|----------------|--------------------------------------|-------------------|------------------|------------------|
| | TEM 813(Q1) ONCRETE APPROACH SLABS | 1914.52 SQ YDS | NO OF SAMPLES MAY BE | CHANGED ON THE | JUDGEMENT OF THE | ENGR |
| ==: | ADMIXTURES | | SEE ITEM 601(1) | ACCEPTANCE | | |
| | AGGREGATE (CONCRETE) (FINE & COARSE) | | SEE ITEM 805(1-8) | | ì | |
| | AGGREGATE (SUBGRADE) (CLAM SHELL, CRUSHED STONE, | WASHED GRAVEL) | 1 / 1000 CU YDS | ACCEPTANCE | |] |
| | BEARING PILE | | | ACCEPTANCE | | ł |
| | CEMENT (PORTLAND) | | SEE ITEM 601(1) | | 1 | |
| | CONCRETE (STRUCTURAL & MINOR STRUCTURE) | | SEE ITEM 805(1-8) | ACCEPTANCE | | } |
| | CONCRETE-CURED | | | | | ļ |
| • | SURFACE TEST | | EACH SLAB | PROJ. CONT. | 1 | |
| | SURFACE TEXTURE | | 2 / LOT | PROJ. CONT. | | |
| | CURING MATERIALS | | SEE ITEM 601(1) | | | } |
| | JOINT FILLER | | | | | |
| | PREFORMED CLOSED CELL POLYETHYLENE | | 1 / 5000 LIN FT / TH | ACCEPTANCE | QPL 18 | |
| | PERFORMED URETHANE FOAM | | 1 / 5000 LIN FT / TH | ACCPETANCE | | |
| | JOINT SEAL (PREFORMED) (ELASTOMERIC COMPRESSION) | | 1 / 6000 LIN FT / LOT SIZE / TYPE | T / ACCEPTANCE | QPL 6 | |
| | LUBRICANT ADHESIVE | | 1 / LOT OR SHIPMENT | ACCEPTANCE | QPL 18 QPL 8 | |
| | POLYETHYLENE FILM | | 1 / LOT OR SHIPMENT | ACCEPTANCE | | |
| | REINFORCEMENT | | SEE ITEM 601(1-2) | ACCEPTANCE | Ì | |
| | TAR PAPER | | VISUAL INSPECTION BY | PE ACCEPTANCE | | { |
| | WATER | | 1 / SOURCE IF NOI DRINKABLE | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | | PURPOSE | SAMF REQUIRED | LES TAKE | 109 N |
|------------------------------------|----------------|-------------------------------|--------|--------------|------------------|---------------|----------|
| TTEM 814(01) A DRILLED SHAFT " DIA | 2270.00 LIN FT | NO OF SAMPLES MAY | BE CHA | ANGED ON THE | JUDGEMENT OF THE | ENGR | |
| BACKFILL MATERIAL | | | | * | | | |
| PEA GRAVEL OR GRANULAR MATERIAL | | VISUAL INSPECTION | BY PE | ACCEPTANCE | | | |
| CONTRACT (STRUCTURAL) (CLASS D) | | SEE ITEM 805(1-8) | | ACCEPTANCE | | | |
| REINFORCEMENT | | | | | | | |
| BARS AND/OR SPIRAL HOOPING | | 1 / SIZE / TYPE / SHIPMENT | | ACCEPTANCE | | | |
| CHAIRS | | 1 / TYPE | | ACCEPTANCE | | | |
| DOWELS . | | 1 / SIZE / TYPE / SHIPMENT | | ACCEPTANCE | | | |

| | | | | SAME | LES 110 |
|--|----------------|-------------------------------|-------------------|---------------|---------|
| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | REQUIRED | TAKEN |
| ITEM 814(O1) B DRILLED SHAFT DIA BACKFILL MATERIAL | 1215.80 LIN FT | NO OF SAMPLES MAY BE CH | HANGED ON THE JUD | GEMENT OF THE | ENGR |
| PEA GRAVEL OR GRANULAR MATERIAL | | VISUAL INSPECTION BY PE | ACCEPTANCE | | } |
| CONCRETE (STRUCTURAL) (CLASS D) | | SEE ITEM 805(1-8) | ACCEPTANCE | | |
| REINFORCEMENT | | | | | |
| BARS AND/OR SPIRAL HOOPING | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | | |
| DOWELS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |

| MATERIAL AND CONTRACT QUANTITY | 22224=2254=2254 | FREQUENCY | PURPOSE | SAMPLES 1111 REQUIRED TAKEN |
|---------------------------------|-----------------|-------------------------------|--------------------|-------------------------------|
| ITEM 814(01) C DRILLED SHAFT | 932.50 LIN FT | NO OF SAMPLES MAY BE | CHANGED ON THE JUD | GEMENT OF THE ENGR |
| BACKFILL MATERIAL | | | | |
| PEA GRAVEL OR GRANULAR MATERIAL | | VISUAL INSPECTION BY | PE ACCEPTANCE | |
| CONCRETE (STRUCTURAE) (CLASS D) | | SEE TIEM 805(1-8) | ACCEPTANCE | |
| REINFORCEMENT | | | | |
| BARS AND/OR SPIRAL HOOPING | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | |
| DOWELS | | 1 / SIZE / TYPE / SHIPMENI | ACCEPIANCE | |

| MATERIAL AND CONTRACT QUANTITY | | FREQUENCY | PURPOSE | SAMP REQUIRED | LES TAK | 112 EN |
|----------------------------------|---|-------------------------------|-------------------|------------------|--------------|-----------|
| ITEM 814(O1) D DRILLED SHAFT DIA | 256.00 LIN FT | NO OF SAMPLES MAY BE | CHANGED ON THE JU | DGEMENT OF THE | ENGR | |
| BACKFILL MATERIAL | ======================================= | | | | | |
| PEA GRAVEL OR GRANULAR MATERIAL | | VISUAL INSPECTION BY | PE ACCEPTANCE | | } | |
| CONCRETE (STRUCTURAL) (CLASS D) | | SEE ITEM 805(1-8) | ACCEPTANCE | | | |
| REINFORCEMENT | | | | | | |
| BARS AND/OR SPIRAL HOOPING | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | |
| CHAIRS | | 1 / TYPE | ACCEPTANCE | | | |
| DOWELS | | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | | |

| MATERIAL AND CONTRACT QUANTITY | FREQUENCY | PURPOSE | SAMP REQUIRED | LES 113 |
|------------------------------------|---|---------------------|------------------|---------|
| ITEM 814(O1) E DRILLED SHAFT " DIA | NO OF SAMPLES MAY BE | E CHANGED ON THE JU | DGEMENT OF THE | ÉNGR |
| BACKFILL MATERIAL | ======================================= | | | |
| PEA GRAVEL OR GRANULAR MATERIAL | VISUAL INSPECTION BY | PE ACCEPTANCE | | |
| CONCRETE (STRUCTURAL) (CLASS D) | SEL ITEM 805(1-8) | ACCEPTANCE | | |
| REINFORCEMENT | • | | | |
| BARS AND/OR SPIRAL HOOPING | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |
| CHAIRS | 1 / TYPE | ACCEPTANCE | .] | |
| DOWELS | 1 / SIZE / TYPE / SHIPMENT | ACCEPTANCE | | |