

NTTA Projects	Original Issue Date: 12/11//2009	CRV-01-A1
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Title: Attachment A – Sample and Test Identification System		

This system of sample and test identification is a key component of the NTTA provided Electronic Data Management System (EDMS) which will be used to manage and analyze test results. Proper identification of the samples and tests allows the effective monitoring of the testing activities. The following fields, where contained on the particular form, of information must be properly presented in the form of CVL on the Sample Identification Form and field test forms such that the results of testing can be parsed into appropriate categories for statistical analyses and/or data comparison.

Note: Not all of the fields appear on all of the forms. Each form contains appropriate fields relative to the necessary data to analyze test results.

Project – provide full description of the name of the corridor, e.g. PGBT Eastern Extension, SH 161, etc.

Sample/Test Group – identify the intended purpose of the sampling or testing as Project or OV

Sample ID or Test ID – follow the five fields noted below to provide a 12-digit Sample Identification Number (SIN) for a field or source sample or a Test Identification number (TIN) for a field test. Use SIN and TIN interchangeably by following a consecutive sequence for samples obtained and tests performed each day

- TCID unique technician identification number for each technician assigned by the EDMS
- YY year of sample obtained
- MM month of sample obtained
- DD day of sample obtained
- SN sequential number of the sample obtained each day

Sample/Test Date – date of sample collected or the field test performed.

Sample/Test Type – random independent, random split, fixed independent, fixed split, or internal with the following intended use, see CRV-01 for definitions of random and fixed samples:

- RI Random Independent (random sample/test location selected by the testing personnel)
- RS Random Split (random sample/test location selected by testing personnel with sample/test performed as a split between two testing entities)
- FI Fixed Independent (sample/test location selected by independent judgment of testing technician)
- FS Fixed Split (sample/test location selected by independent judgment of testing technician with sample/test performed as a split between testing laboratories)
- I Sample/Test used by the laboratory for the purpose of performing internal review, training, calibration check, proficiency testing, etc.

Split Sample ID – record sample identification number used by another testing entity, if the sample is a split sample with another laboratory

Report Type – record type of sample or test to identify the activity as Original or Retest

Section – record section of project, Section designation of the Corridor (e.g., Section 28, 29, 31) where the sample originates from or the field test is conducted.

Sampled/Tested By – record name of technician responsible for the physical sampling/testing of the material/construction.

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Spec. Year –this space includes the 2004 TxDOT *Standard Specifications for the Construction of Highways, Streets & Bridges* and it is fixed at 2004

Material/Mix Code – For embankment, subgrade, general backfill soils and base materials, Proctor curve codes comprise a prefix of PT for Proctor curves established by the testing laboratory and sequential numbers (starting from 1) automatically assigned by the EDMS.

Material/mix codes for manufactured products and concrete/HMA mixture are assigned following the guidelines below:

Manufactured products - Each material code of manufactured production (e.g., base aggregates, hydraulic cement concrete/hot mix asphalt concrete aggregates, cement, fly ash, asphalt binder, and concrete admixtures) comprises 7-digit producer code used in TxDOT AQMP program, located at the link following this paragraph, and a grade/class/type-specific alphabetical suffix (for example, the material codes of 1817507FA and 1817507G4 may be assigned for concrete fine aggregates and Grade 5 coarse aggregates from Beall Concrete Chatfield pit, respectively).

http://www.txdot.gov/txdot_library/publications/business/construction/producer_list.htm

Concrete/HMA Mix - Each mix code of hydraulic cement concrete or hot mixed asphalt concrete comprises the mix code of the approved mix design and a class/type-specific alphabetic suffix (e.g., mix codes of 3456K and 8967C are used for Class K mix design No. 3456 and Class C mix design No. 8976, respectively).

Examples of the Class/Type/Grade-specific suffixes are given below:

Material/Mix Code Suffix	Remarks
FA	Hydraulic Cement Concrete Fine Aggregate (Natural)
MFA	Hydraulic Cement Concrete Fine Aggregate (Manufactured)
G1	Hydraulic Cement Concrete Coarse Aggregate, Grade 1
G2	Hydraulic Cement Concrete Coarse Aggregate, Grade 2
G3	Hydraulic Cement Concrete Coarse Aggregate, Grade 3
G4	Hydraulic Cement Concrete Coarse Aggregate, Grade 4
G5	Hydraulic Cement Concrete Coarse Aggregate, Grade 5
G6	Hydraulic Cement Concrete Coarse Aggregate, Grade 6
G7	Hydraulic Cement Concrete Coarse Aggregate, Grade 7
G8	Hydraulic Cement Concrete Coarse Aggregate, Grade 8
G9	Hydraulic Cement Concrete Coarse Aggregate, Grade 9
RAP	Reclaimed Asphalt Pavement
FS	Hot Mixed Asphalt Field Sand
SC	Hot Mixed Asphalt Screenings
S3/8	Hot Mixed Asphalt 3/8" Aggregate
S7/8	Hot Mixed Asphalt 7/8" Aggregate
S3/4	Hot Mixed Asphalt ¾" Aggregate
S1/2	Hot Mixed Asphalt ½" Aggregate
VB1	Virgin Base Grade 1
VB2	Virgin Base Grade 2
VB3	Virgin Base Grade 3
VB4	Virgin Base Grade 4
VB6	Virgin Base Grade 6
RB	Recycled Base other than RAP
A	Class A Concrete

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B	Class B Concrete
C	Class C Concrete
D	Class D Concrete
E	Class E Concrete
F	Class F Concrete
H	Class H Concrete
S	Class S Concrete
P	Class P Concrete
DC	Class DC Concrete
CO	Class CO Concrete
LMC	Class LMC Concrete
SS	Class SS Concrete
K	Class K Concrete
HES	Class HES Concrete
FF	Flowable Fill

Request generic codes from NTTA CRV Materials Manager for special products and materials.

Specification Item – record specification item number (e.g., 132, 420, 421, 340, 247, etc.).

Supplier/Producer – record name of supplier or producer of material/construction sampled/tested.

Special Provision – record special provision number, if applicable.

Location Code – record unique location codes used to identify major project elements (e.g, bridge #s and retaining wall #).

Grade/Class/Type – record grade/class/type of material specified by the Construction Documents and governing specifications. The following grade/class/type, if applicable, shall be used in sample/test identifications and quantity tracking. Communicate the needs of adding new grade/class/type to NTTA CRV Materials Manager.

Grade/Class/Type	Grade/Class/Type Description
1	TxDOT 2004 Specification Item 247, Grade 1 Flexible Base
2	TxDOT 2004 Specification Item 247, Grade 2 Flexible Base
3	TxDOT 2004 Specification Item 247, Grade 3 Flexible Base
4	TxDOT 2004 Specification Item 247, Grade 4 Flexible Base (As Shown in Plan, if applicable)
6	TxDOT 2004 Specification Item 247, Grade 6 Flexible Base (As Shown in Plan, if applicable)
RAP	TxDOT 2004 Specification Item 247, Recycled Asphalt Pavement Used in Base Courses
RcyM	TxDOT 2004 Specification Item 247, Recycled Materials Other Than RAP Used in Base Courses
132A	TxDOT 2004 Specification Item 132, Type A Embankment and Backfill
132B	TxDOT 2004 Specification Item 132, Type B Embankment and Backfill
132C	TxDOT 2004 Specification Item 132, Type C Embankment and Backfill (As Shown in Plan)
132D	TxDOT 2004 Specification Item 132, Type D Embankment and Backfill (As Shown in Plan)
MTSCS	NTTA Special Specification Item 856, Moisture Treated Subgrade (Clayey Sand)
MTSLC	NTTA Special Specification Item 856, Moisture Treated Subgrade (Lean Clayey Including Processed Weathered or Un-Weathered Limestone)
MTSFC	NTTA Special Specification Item 856, Moisture Treated Subgrade (Fat Clay)
MSETyA	TxDOT 2004 Specification Item 423, Type A Select MSE Backfill
MSETyB	TxDOT 2004 Specification Item 423, Type B Select MSE Backfill

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MSETyC	TxDOT 2004 Specification Item 423, Type C Select MSE Backfill
MSETyD	TxDOT 2004 Specification Item 423, Type D Select MSE Backfill
CTSG	TxDOT 2004 Specification Item 275, Cement Treated Subgrade
LTSG	TxDOT 2004 Specification Item 260, Lime Treated Subgrade
FATSG	TxDOT 2004 Specification Item 265, Fly Ash Treated Subgrade
FLTSG	TxDOT 2004 Specification Item 265, Fly Ash – Lime Treated Subgrade
276D1	TxDOT 2004 Specification Item 276, Plant-mixed Cement Treated Base Course with 100% Virgin Flexible Base
276D2	TxDOT 2004 Specification Item 276, Plant-mixed Cement Treated Base Course with RAP with other Recycled Materials
275D1	TxDOT 2004 Specification Item 275, Roadway-Mixed Cement Treated Base Course with 100% Virgin Flexible Base
275D2	TxDOT 2004 Specification Item 275, Roadway-Mixed Cement Treated Base Course with RAP with other Recycled Materials
A	TxDOT 2004 Specification Item 421, Class A Concrete
B	TxDOT 2004 Specification Item 421, Class B Concrete
C	TxDOT 2004 Specification Item 421, Class C Concrete
D	TxDOT 2004 Specification Item 421, Class D Concrete
E	TxDOT 2004 Specification Item 421, Class E Concrete
F	TxDOT 2004 Specification Item 421, Class F Concrete
H	TxDOT 2004 Specification Item 421, Class H Concrete
S	TxDOT 2004 Specification Item 421, Class S Concrete
P	TxDOT 2004 Specification Item 421, Class P Concrete
DC	TxDOT 2004 Specification Item 421, Class DC Concrete
CO	TxDOT 2004 Specification Item 421, Class CO Concrete
LMC	TxDOT 2004 Specification Item 421, Class LMC Concrete
SS	TxDOT 2004 Specification Item 421, Class SS Concrete
K	TxDOT 2004 Specification Item 421, Class K Concrete
HES	TxDOT 2004 Specification Item 421, Class HES Concrete
FlowFill	TxDOT 2004 Specification Item 401, Flowable Fill
FA	TxDOT 2004 Specification Item 421, Fine Aggregate (River Sand)
MFA	TxDOT 2004 Specification Item 421, Manufactured Fine Aggregate
CoAggG1	TxDOT 2004 Specification Item 421, Grade 1 Coarse Aggregate
CoAggG2	TxDOT 2004 Specification Item 421, Grade 2 Coarse Aggregate
CoAggG3	TxDOT 2004 Specification Item 421, Grade 3 Coarse Aggregate
CoAggG4	TxDOT 2004 Specification Item 421, Grade 4 Coarse Aggregate
CoAggG5	TxDOT 2004 Specification Item 421, Grade 5 Coarse Aggregate
CoAggG6	TxDOT 2004 Specification Item 421, Grade 6 Coarse Aggregate
CoAggG7	TxDOT 2004 Specification Item 421, Grade 7 Coarse Aggregate
CoAggG8	TxDOT 2004 Specification Item 421, Grade 8 Coarse Aggregate
CoAggG9	TxDOT 2004 Specification Item 421, Grade 9 Coarse Aggregate
340MixTyA	TxDOT 2004 Specification Item 340, Type A Dense-Grade HMA (Method)
340MixTyB	TxDOT 2004 Specification Item 340, Type B Dense-Grade HMA (Method)
340MixTyC	TxDOT 2004 Specification Item 340, Type C Dense-Grade HMA (Method)
340MixTyD	TxDOT 2004 Specification Item 340, Type D Dense-Grade HMA (Method)

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340MixTyF	TxDOT 2004 Specification Item 341, Type F Dense-Grade HMA (Method)
340MixTyAB	TxDOT 2004 Specification Item 340, Type A Dense-Grade HMA Used As Bond Breaker
340MixTyBB	TxDOT 2004 Specification Item 340, Type B Dense-Grade HMA Used As Bond Breaker
340MixTyCB	TxDOT 2004 Specification Item 340, Type C Dense-Grade HMA Used As Bond Breaker
340MixTyDB	TxDOT 2004 Specification Item 340, Type D Dense-Grade HMA Used As Bond Breaker
341MixTyA	TxDOT 2004 Specification Item 341, Type A Dense-Grade HMA (QC/QA)
341MixTyB	TxDOT 2004 Specification Item 341, Type B Dense-Grade HMA (QC/QA)
341MixTyC	TxDOT 2004 Specification Item 341, Type C Dense-Grade HMA (QC/QA)
341MixTyD	TxDOT 2004 Specification Item 341, Type D Dense-Grade HMA (QC/QA)
341MixTyF	TxDOT 2004 Specification Item 341, Type F Dense-Grade HMA (QC/QA)
344MixSPA	TxDOT 2004 Specification Item 344, Performance-Designed Mixture, Type SP-A
344MixSPB	TxDOT 2004 Specification Item 344, Performance-Designed Mixture, Type SP-B
344MixSPC	TxDOT 2004 Specification Item 344, Performance-Designed Mixture, Type SP-C
344MixSPD	TxDOT 2004 Specification Item 344, Performance-Designed Mixture, Type SP-D
344MixCMHBC	TxDOT 2004 Specification Item 344, Performance-Designed Mixture, Type CMHB-C
344MixCMHBF	TxDOT 2004 Specification Item 344, Performance-Designed Mixture, Type CMHB-F
346SMAC	TxDOT 2004 Specification Item 346, Stone-Matrix Asphalt, Type SMA-C
346SMAD	TxDOT 2004 Specification Item 346, Stone-Matrix Asphalt, Type SMA-D
346SMAF	TxDOT 2004 Specification Item 346, Stone-Matrix Asphalt, Type SMA-F
346SMARC	TxDOT 2004 Specification Item 346, Stone-Matrix Asphalt, Type SMAR-C
346SMARF	TxDOT 2004 Specification Item 346, Stone-Matrix Asphalt, Type SMAR-F
HMAFA	TxDOT 2004 Specification Items 340/341/344, HMA Fine Aggregate
HMAMF	TxDOT 2004 Specification Items 340/341/344, HMA Mineral Filler
HMACoAggA	TxDOT 2004 Specification Items 340/341, HMA Coarse Aggregate, Type A
HMACoAggB	TxDOT 2004 Specification Items 340/341, HMA Coarse Aggregate, Type B
HMACoAggC	TxDOT 2004 Specification Items 340/341, HMA Coarse Aggregate, Type C
HMACoAggD	TxDOT 2004 Specification Items 340/341, HMA Coarse Aggregate, Type D
HMACoAggF	TxDOT 2004 Specification Items 340/341, HMA Coarse Aggregate, Type F
344CoAggSPA	TxDOT 2004 Specification Item 344, HMA Coarse Aggregate, Type SP-A
344CoAggSPB	TxDOT 2004 Specification Item 344, HMA Coarse Aggregate, Type SP-B
344CoAggSPC	TxDOT 2004 Specification Item 344, HMA Coarse Aggregate, Type SP-C
344CoAggSPD	TxDOT 2004 Specification Item 344, HMA Coarse Aggregate, Type SP-D
344CoAggCMHBC	TxDOT 2004 Specification Item 344, HMA Coarse Aggregate, Type CMHB-C
344CoAggCMHBF	TxDOT 2004 Specification Item 344, HMA Coarse Aggregate, Type CMHB-F
346CoAggSMAC	TxDOT 2004 Specification Item 346, SMA Coarse Aggregate, Type SMA-C
346CoAggSMAD	TxDOT 2004 Specification Item 346, SMA Coarse Aggregate, Type SMA-D
346CoAggSMAF	TxDOT 2004 Specification Item 346, SMA Coarse Aggregate, Type SMA-F
346CoAggSMARC	TxDOT 2004 Specification Item 346, SMA Coarse Aggregate, Type SMAR-C
346CoAggSMARF	TxDOT 2004 Specification Item 346, SMA Coarse Aggregate, Type SMAR-F

Material Description – narrative description of the material/construction sampled/tested.

Sample Location – narrative description of sampling/testing location; e.g. windrow, stockpile number, relative location of structure in pier number, column number, bent number, etc.

FID – feature identification numbers (e.g. lift, span, drilled shaft or bent numbers).

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Station – record station number of sample/test origination

Distance From CL – record distance from centerline with noted offset to the right or left

Misc. – provide miscellaneous information that may be needed to clearly identify the origin of material sample

Roadway – record roadway identified such as PGBT, DNT, names of cross roads, etc.

Feature – record feature of work element where sample/test is originated, such as mainline, frontage, column, deck, footing, drilled shaft, toll plaza, culvert, ramp, etc.

Direction – record direction of roadway, such as NB, EB, SB and WB.

Lot Station Limits – record the following to define the lot limits in the longitudinal direction

Begin – begin station of the lot represented by the sample/test

End – ending station of the lot represented by the sample/test

Lot Width Limits – record the following to define the lot limits in the transverse direction (assuming the lot being rectangular in shape)

Offset (left) – offset distance of the left side of the lot from C.L.

Offset (right) – offset distance of the right side of the lot from C.L.

HMA Placement Date – record the date of HMA placement and the following when applicable (only required for HMA core samples)

Lot – HMA production lot identification (required for QC/QA specification construction only)

Sublot – HMA production sublot identification (required for QC/QA specification construction only)

Lab Test Assignments – use this field to identify the material testing requirement by test methods and note if the material is a resample of a previously failed sample.

Concrete Placement Classification – classify the concrete placements. There are times when the Class of the concrete placed is a Class that is not the Class required by the plans or specifications (e.g. Class A concrete placed where Class B is only required.) In these instances it is necessary to capture the required, by the plans and/or specifications, Class so that analysis can be adequately performed. The placement classification shall be recorded in concrete field testing forms. Wherever applicable, one of the following concrete placement classifications shall be checked in the concrete field testing forms:

- Non-Structural Concrete
- Structural Concrete Other Than Bridge Decks and Mass Placements
- Mass Placement
- Bridge Deck and/or Slabs Subject to Direct Traffic
- Concrete Paving
- Precast Concrete

REVISION HISTORY:

Revision	Revised by	Date Issued	DRN#	Reason for Revision
0	John Roberts	12/11/2009	10067	Original Issue
1	Frank Yuan	08/25/2010	10232	Added note to Sample Tests/Types