

## 1.0 Glossary.

### 1.1 Profile Format.

The format consists of repeating station, X, Y, Z (elevation) point code and notes. The station reflects the distance along the channel centerline, or baseline. The X, Y or Easting & Northing is the State Plane Coordinate of the station. The Z value represents the elevation of the station.

A descriptor of "Fw.n" shall refer to a FORTRAN floating point number specifier. The "w" specifies field width and "n" specifies the digits to the right of the depicted decimal. The decimal point must be explicit, unless otherwise specified. All numeric fields shall be right-justified and all character fields shall be left-justified unless otherwise stated.

### 2.1 Title Record Descriptions.

"T" records are required at the beginning of each survey data file. These records narrowly define the specific datum, units, and location information about a survey. If a survey is broken into several files, each file should contain the same header information.

#### T01 RECORD:

Static Data	:	Column	Data
		(01:03)	T01
		(07:18)	FILE NAME :
		(43:48)	ORDER:
		(61:73)	HORIZ. DATUM:

Element Name : File Name  
Field Length : 8  
Data Type : Alpha/Numeric  
Data Format : XXXXXXXX  
Record Loc. : (20:27)  
Description : The name of the data file itself. The name should begin with an alpha character in order to be loadable to various operating systems. Avoid file name extensions.

Default Value: None, required entry.

Validation : The name must match its given system name at the time of file generation.

Element Name : Order  
Field Length : 1  
Data Type : Numeric  
Data Format : X  
Record Loc. : (50:50)  
Description : The Order of Accuracy of the survey. 1st, 2nd or 3rd order.

Default Value: No default value.

Validation : 1 = 1st Order, 2= 2nd Order, and 3 = 3rd Order.

Element Name : Horizontal Datum  
Field Length : 5  
Data Type : Alpha/Numeric  
Data Format : XXXXX  
Record Loc. : (75:79)  
Description : The North American Datum upon which the survey was  
based. This will vary according to the specifics  
of the contract.  
Default Value: No default value.  
Validation : The values are:  
NAD27 = North American Datum of 1927  
NAD83 = North American Datum of 1983

T02 RECORD:

Static Data	Column	Data
	(01:03)	T02
	(07:18)	JOB NUMBER :
	(43:48)	UNITS:
	(61:73)	VERT. DATUM:

Element Name : Job Number  
Field Length : 8  
Data Type : Alpha/Numeric  
Data Format : XX-XXXXX

Record Loc. : (20:27)  
Description : The Job Number is the survey contract job number assigned by the Survey Section, Engineering Div. This number identifies the survey contract and its requirements, duration, location, etc.  
Default Value: None, required entry.  
Validation : The number consists of a year and sequence number. For example, the second contract job for 1990 would have a number of 90-2. Alphabetic characters are sometimes added; 90-2A

Element Name : Units  
Field Length : 2  
Data Type : Alpha/Numeric  
Data Format : XX  
Record Loc. : (50:51)  
Description : The units in which the survey was taken. All positions: X, Y, and Z's must be in the same units.  
Default Value: None, required entry.  
Validation : Valid entries are: FT = feet  
SI = System International  
(Meters)

Element Name : Vertical Datum  
Field Length : 6  
Data Type : Alpha/Numeric  
Data Format : XXXXXX  
Record Loc. : (75:80)  
Description : The vertical plane to which the elevations were referenced.  
Default Value: None, required entry.  
Validation : MLG = Mean Low Gulf  
MSL = Mean Sea Level  
NGVD29 or NGVD88 = National Geodetic Vert. Datum  
NAVD = North Atlantic Vertical Datum

T03 RECORD:

Static Data	:	Column	Data
		(01:03)	T03
		(07:18)	SURVEY DATE:
		(43:48)	ZONE :
		(68:73)	EPOCH:

Element Name : Survey Date  
Field Length : 11  
Data Type : Alpha/Numeric  
Data Format : DD-MMM-YYYY  
Record Loc. : (20:30)  
Description : The date on which the survey was completed.  
Default Value: None, required entry.  
Validation : Value must be a valid date: 01-JAN-1990

Element Name : Zone  
Field Length : 12  
Data Type : Alpha/Numeric  
Data Format : LAMBERT xxxx -or- UTM xx  
Record Loc. : (50:61)  
Description : The State Plane, Lambert, or UTM zone which to  
the survey's XYZ points have been referenced.  
Default Value: None, required entry.  
Validation : The value must be: LAMBERT xxxx or UTM xx  
The "xxxx" and "xx" represent the zone numbers.  
Represent single digit zones 01, 02, 03...

Element Name : Epoch  
Field Length : 4  
Data Type : Numeric  
Data Format : YYYY  
Record Loc. : (75:78)  
Description : The year in which the given vertical Benchmark  
elevation was adjusted or derived.  
Default Value: None. Required entry, when a region has an  
Epoch value.  
Validation : Value must be a valid year: 1990

T04 RECORD:

Static Data	: Column	Data
	(01:03)	T04
	(07:18)	BANK REF. :
	(41:48)	CHANNEL:

Element Name : Bank Reference  
Field Length : 3  
Data Type : Alphabetic  
Data Format : XXX  
Record Loc. : (20:22)  
Description : The bank from which the survey was referenced.  
Default Value: Optional entry, only needed for hydrographic  
surveys and topographic bank surveys.  
Validation : RDB = Right Descending Bank  
LDB = Left Descending Bank

Element Name : Channel  
Field Length : 30  
Data Type : Alphabetic  
Data Format : 30(X)  
Record Loc. : (50:79)  
Description : The channel on which the survey was taken.  
Default Value: Optional entry, only needed for hydrographic  
surveys and topographic bank surveys.  
Validation : Generally None. For Revetment Maintenance Surveys,  
channel must be: "Mississippi River" or "Atchafalaya River"

T05 RECORD.

Static Data : Column           Data  
              (01:03)           T05  
              (07:18)           CONTRACTOR :  
Element Name : Contractor  
Field Length : 60  
Data Type    : Alpha/Numeric  
Data Format   : 60(X)  
Record Loc.  : (20:79)  
Description  : The name of the survey contractor.  
Default Value: Required.  
Validation   : None.

T06 RECORD.

Static Data : Column           Data  
              (01:03)           T06  
              (07:18)           LEVEE DIST.:  
Element Name : Levee District  
Field Length : 60  
Data Type    : Alpha/Numeric  
Data Format   : 60(X)  
Record Loc.  : (20:79)  
Description  : Levee District name where the survey was taken.  
Default Value: None, required entry.  
Validation   : The name should be one of the following:

Grand Prairie Below Bohemia  
Grand Prairie Above Bohemia  
Point A LA Hache Relief Outlet  
Lake Borgne  
Orleans East  
Orleans West  
Pontchartrain  
Baton Rouge Front Levee  
Buras  
Lafourche Below New Orleans  
Lafourche Above New Orleans  
Atchafalaya Basin  
Fifth Louisiana  
Above Baton Rouge (Left Bank)  
Pass A Loutre (Left Bank)  
Pass A Loutre (Right Bank)  
South Pass (Left Bank)  
South Pass (Right Bank)  
Southwest Pass (Left Bank)  
Southwest Pass (Right Bank)  
Bonnet Carret' Spillway (Left Bank)  
Old River, Old RIVER Outflow

Chalmette  
Larose to Golden Meadow  
New Orleans to Venice Levees (Reach A)  
New Orleans to Venice Levees (Reach B-1)  
New Orleans to Venice Levees (Reach B-2)  
New Orleans to Venice Levees (Reach C)  
East Jefferson  
West Jefferson

T07 RECORD.

Static Data	:	Column	Data
		(01:03)	T07
		(07:18)	TITLE :

Element Name : Title  
Field Length : 60  
Data Type : Alpha/Numeric  
Data Format : 60(X)  
Record Loc. : (20:79)  
Description : A description of the location that was surveyed.  
Default Value: None, required entry.  
Validation : Generally None. For Revetment Maintenance Surveys  
the title must be the Corps standard name of the Revetment,  
followed by "Revetment Maintenance Survey" For example:  
"Fort Jackson Revetment Maintenance Survey"

## 2.2 Profile Survey Description.

Each profile record will contain a station, X, Y, Z, Code and note in the following format.

Element Name : Station  
Field Length : 15  
Data Type : Numeric  
Data Format : F15.2  
Record Loc. : (1:15)  
Description : Baseline or Centerline station in feet.  
Default Value: Required.  
Validation : None.

Element Name : XY Coordinate  
Field Length : 30  
Data Type : Numeric  
Data Format : 2(F15.3)  
Record Loc. : (16:45)  
Description : The non-adjusted Easting & Northing (XY) coordinates of the range. These values should be in units of feet or meters.  
Default Value: Required.  
Validation : None.

Element Name : Elevation  
Field Length : 8  
Data Type : Numeric  
Data Format : F8.2  
Record Loc. : (46:53)  
Description : The height of a POR above the reference datum. These values should be in units of feet or meters.  
Default Value: Required.  
Validation : None.

Element Name : Feature Code  
Field Length : 3  
Data Type : Alphabetic  
Data Format : XXX  
Record Loc. : (55:57)  
Description : A 3-character feature code using standard survey notations for levee profiles.  
Default Value: As Required.  
Validation : The code may be one of the following values:

CCL = Center Line Levee  
FS = Flood Side of Levee  
PS = Protected Side of Levee  
BL = Levee Baseline  
FSC = Flood Side Crown (Edge)  
TR = Top Riprap Protection  
TC = Top Concrete Pavement  
WES = Water Edge and Surface  
LSC = Protected Side Crown (Edge), Land Side  
LST = Protected Side Toe  
UTL = Paralleling Utilities  
PL = Pipeline Crossing  
RMP = Ramp Centerline

CR = Crown or High Point Levee  
ER = Edge of Road or Highway  
BLD = Edge of Building or Obstruction  
TSP = Top of Sheet Piling or Wall  
TPR = Top of "Potato Ridge" Levee  
CLR = Centerline of Road  
TR = Treeline  
NG = Natural Ground

Element Name : Note  
Field Length : 22  
Data Type : Alphabetic  
Data Format : XXXXXXXXXXXXXXXXXXXXXXXX  
Record Loc. : (59:80)  
Description : A 22-character description or note of station.  
Default Value: As Required.  
Validation : None.

### 3.0 Method of Delivery.

Direct electronic transmission of surveys or delivery via magnetic media may be specified. If magnetic media is specified, the data files shall be placed on a 5 1/4 inch, 1.2 Megabyte, high density floppy diskettes that are compatible with MS-DOS based computer systems.



T01 FILE NAME : 93-999.ASC ORDER: 3 HORIZ. DATUM: NAD27  
 T02 JOB NUMBER : 93-999 UNITS: FT VERT. DATUM: MLG  
 T03 SURVEY DATE: 01-Jan-1993 ZONE : LAMBERT 1702 EPOCH: 1988  
 T04 BANK REF : CHANNEL: G.I.W.W  
 T05 CONTRACTOR : XYZ CONTRACTING  
 T06 LEVEE DIST.:  
 T07 TITLE : BAYOU SORREL CENTERLINE PROFILE

Station	Station	Station	Elevation	Offset	Code	Notes
0.00	2003407.990	532358.028	-14.30	CCL	Put 22 char. note here	
100.00	2003425.912	532259.647	-12.50	CCL		
200.00	2003443.835	532161.266	-17.20	CCL		
300.00	2003461.757	532062.885	-16.20	CCL		
400.00	2003479.679	531964.504	-18.10	CCL		
500.00	2003497.602	531866.123	-17.70	CCL		
600.00	2003515.524	531767.743	-17.40	CCL		
700.00	2003533.447	531669.362	-16.40	CCL		
800.00	2003551.369	531570.981	-16.10	CCL		
900.00	2003569.291	531472.600	-15.80	CCL		
1000.00	2003587.214	531374.219	-15.70	CCL		
1100.00	2003605.136	531275.838	-14.30	CCL		
1200.00	2003623.059	531177.458	-14.50	CCL		
1300.00	2003640.981	531079.077	-13.90	CCL		
1400.00	2003658.903	530980.696	-12.00	CCL		
1500.00	2003676.826	530882.315	-12.60	CCL		
1600.00	2003694.748	530783.934	-11.60	CCL		
1700.00	2003712.670	530685.553	-12.10	CCL		
1800.00	2003730.593	530587.173	-11.60	CCL		
1900.00	2003748.515	530488.792	-9.60	CCL		
2000.00	2003766.438	530390.411	-9.10	CCL		
2100.00	2003784.360	530292.030	-11.10	CCL		
2200.00	2003802.282	530193.649	-13.90	CCL		
2300.00	2003820.205	530095.268	-15.50	CCL		
2400.00	2003838.127	529996.888	-16.40	CCL		
2500.00	2003856.050	529898.507	-17.80	CCL		
2600.00	2003873.972	529800.126	-19.80	CCL		
2700.00	2003891.894	529701.745	-20.30	CCL		
2800.00	2003909.817	529603.364	-20.60	CCL		
2900.00	2003927.739	529504.983	-19.10	CCL		
3000.00	2003945.662	529406.603	-18.00	CCL		
3100.00	2003963.584	529308.222	-16.00	CCL		
3200.00	2003981.506	529209.841	-15.20	CCL		
3300.00	2003999.429	529111.460	-14.30	CCL		
3400.00	2004017.351	529013.079	-14.20	CCL		
3500.00	2004035.273	528914.698	-14.00	CCL		
3600.00	2004053.196	528816.318	-13.50	CCL		
3700.00	2004071.118	528717.937	-13.10	CCL		
3800.00	2004089.041	528619.556	-12.90	CCL		
3900.00	2004106.963	528521.175	-12.80	CCL		
4000.00	2004124.885	528422.794	-13.30	CCL		
4100.00	2004142.808	528324.413	-13.50	CCL		