

One click to any drawing you want.

Paper 1648 – Authored by:

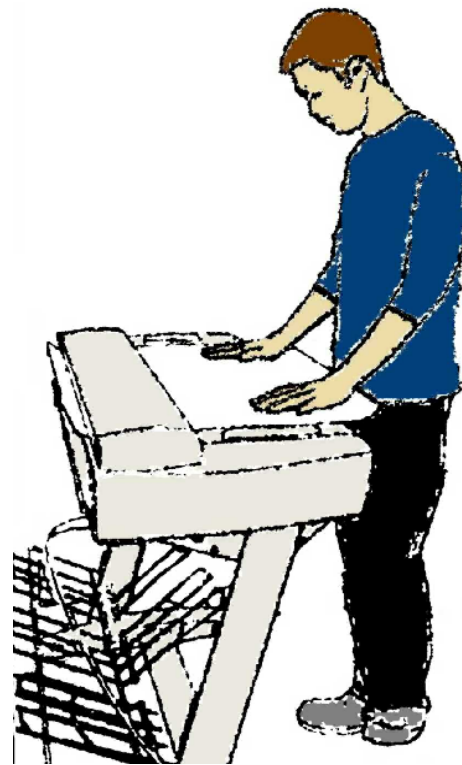
Mohammad Tamoozi – Harris County Toll Road Authority

Vince Hamilton – Michael Baker Jr., Inc.

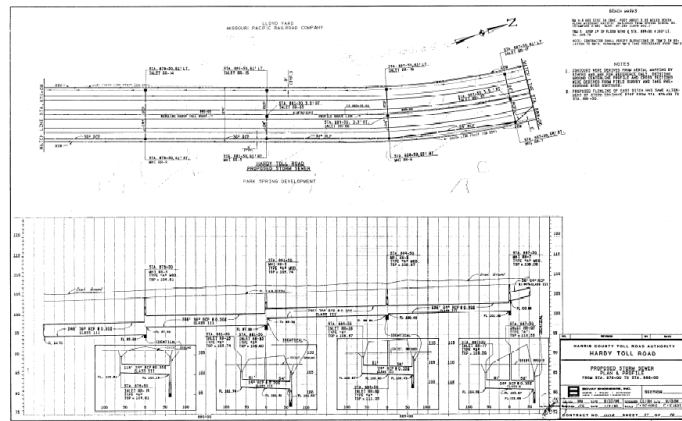




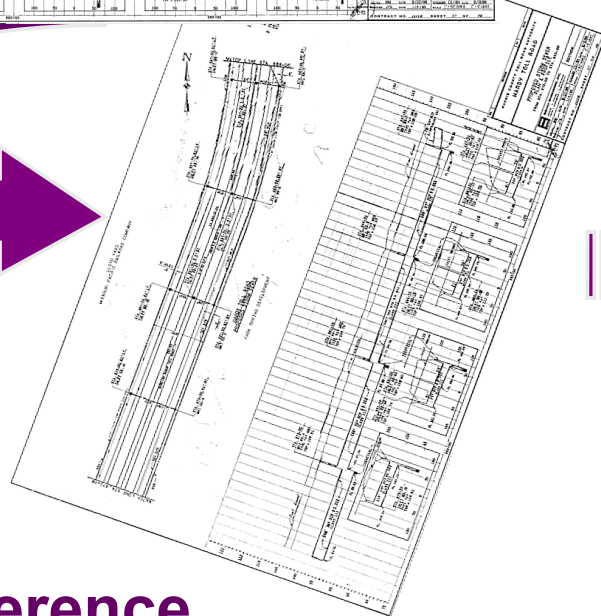
Plan



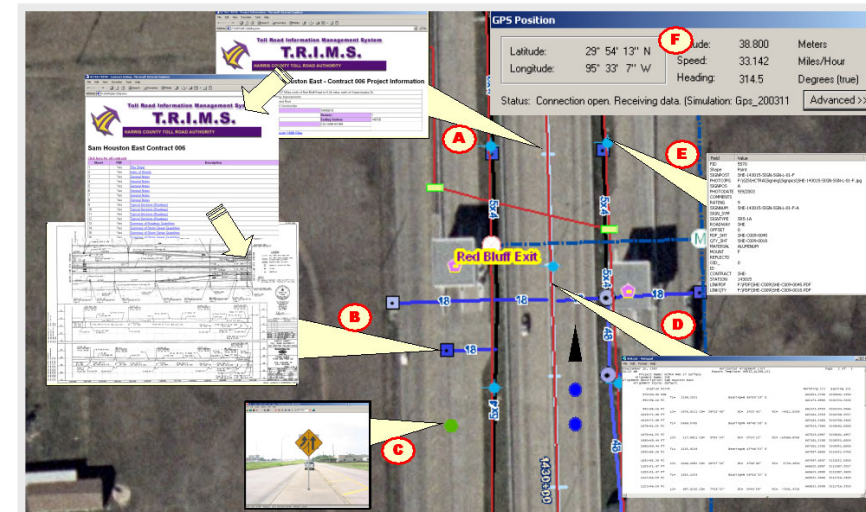
Scan



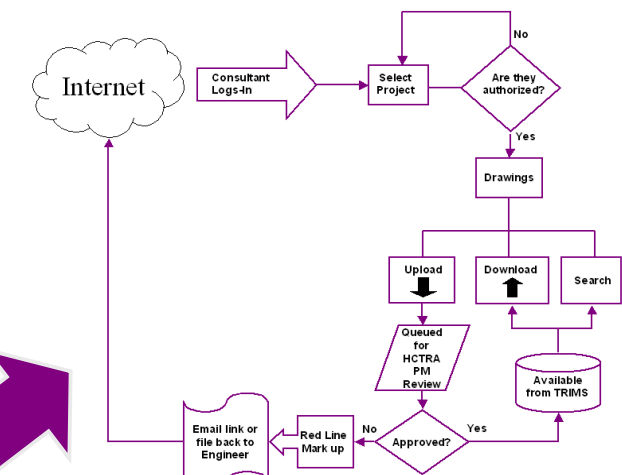
Georeference



Digitize



Link



Sustain

Building the project database



TRIMS Catalog Data Entry
_ □ ×

File Project Setup AutoLoad Web Pages Reports Search Database Utilities Exit

Toll Road Information Management System

T.R.I.M.S.

HARRIS COUNTY TOLL ROAD AUTHORITY

Click here for Roadway Selection List ▾

Roadway Hardy Toll Road North

File Cabinet # Drawer # County Job#

Location

Project Start Station Project End Station

Date Sealed CSJ Number:

Engineering Firm:

Construction Firm:

Contract Description

[Reset Contracts](#) [Goto Contract](#)

Contract ID

HTRN-C004

Scanned

Standards Page

Delete Contract
Edit Contract
First <
Projects
> Last
Update Project
New Contract

Drawing Type

Sheet Description

Sheet Number [Goto Sheet](#)

PDF Filename

Delete Sheet
Stop Editing
First <
1
> Last
Update Sheets
New Sheet

Exit




HCTRA TRIMS - Contract Listing - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print View Source Refresh

Address F:\Pdf\TRIMS-PDFs.htm Go Links



Toll Road Information Management System
T.R.I.M.S.
HARRIS COUNTY TOLL ROAD AUTHORITY

HCTRA TRIMS - Contract Listing

Contract ID	Date	Info	PDFs	CADD	Stds	Location
HCTRA - Contract 072	19960227	Info	PDFs	CADD	Stds	Sam Houston Tollway and Hardy Toll Road - 82 Miles
HCTRA - Contract 99	20000811	Info	PDFs	CADD	Stds	Meadowfern Office Renovations
HTRN - Contract 001	19840705	Info	PDFs	CADD	Stds	Greens Bayou Bridges
HTRN - Contract 003	19841030	Info	PDFs	CADD	Stds	Airtex Dr. to Bammel-Wesfield Rd.
HTRN - Contract 004	19840810	Info	PDFs	CADD	Stds	North of Mopac to South of Lexington
HTRN - Contract 005	19840225	Info	PDFs	CADD	Stds	Aldine Bender to Greens Bayou
HTRN - Contract 006	19850305	Info	PDFs	CADD	Stds	North of Greens Rd. to North of Rankin Rd.
HTRN - Contract 011	19850417	Info	PDFs	CADD	Stds	North of 1960 to North of Cypress Creek
HTRN - Contract 012	19850516	Info	PDFs	CADD	Stds	South of Mopac R.R. Overpass to North of Mopac RR Overpass
HTRN - Contract 015	19850710	Info	PDFs	CADD	Stds	South of Lexington Road to South of IH-45
HTRN - Contract 016	19850528	Info	PDFs	CADD	Stds	F.M. 1960 Grade Separation
HTRN - Contract 021	19851111	Info	PDFs	CADD	Stds	South of IH-45 To Spring Creek
HTRN - Contract 025	19850710	Info	PDFs	CADD	Stds	North of Rankin to Farrell Road
HTRN - Contract 026	19850701	Info	PDFs	CADD	Stds	Greens Bayou To North of Greens Road
HTRN - Contract 029	19860707	Info	PDFs	CADD	Stds	NorthBelt to IH-45 - North Mainlanes & Satellite Toll Plazas
HTRN - Contract 032	19851009	Info	PDFs	CADD	Stds	Airtex Drive Grade Separation
HTRN - Contract 036	19851008	Info	PDFs	CADD	Stds	Cypresswood / North Loop

Done My Computer



The screenshot displays the ArcReader application window titled "HCTRA-TRIMS - ArcReader". The interface includes a menu bar (File, Edit, View, Tools, Window, Help), a toolbar with navigation and zoom tools, and a scale of 1:22,512. On the left, a "Layers" panel lists various project layers, including "HCTRA Layers", "Pooled Projects", "HCTRA_Plazas", "Baselines", "Drawing Management", and "Street Names from StarMap". The main map area shows an aerial view with a red vertical line representing a project boundary. Labels on the map include "TURKEY CREEK", "Clay Entrance", "Clay Exit", and "Hammerly Entrance", "Hammerly Exit". A popup window titled "HCTRA TRIMS - Project Information - Microsoft Internet Explorer" is overlaid on the map, displaying project details for "Sam Houston Central(West) - Contract 024".

HCTRA TRIMS - Project Information - Microsoft Internet Explorer

Address: H:\Transportation\Projects\25746\TRIMS\PDF\SHW-C024Eng.htm

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 HARRIS COUNTY TOLL ROAD AUTHORITY

HCTRA TRIMS - Sam Houston Central(West) - Contract 024 Project Information

Project Location:	IH-10 TO SOUTH OF U.South 290		
Construction Type:	Roadway Signing		
Engineering Firm:	Bernard Johnson Inc.		
Construction Firm:	James Davidson Constructors		
Plan set sealed date:	19880627		
File Cabinet:	SC105	Drawer:	3
Project Start Station:	62365	Ending Station:	92300
TxDOT CSJ number:	CSJ		
Harris County Job number:	88/0638		

[Index of Sheets](#) [Design Standards](#) [All Contracts](#) [CADD Files](#)

579.15 2625.28 Miles

Indexes are hyperlinked



HCTRA TRIMS - Contract Listing - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address F:\Pdf\HTRN-C026.htm



Toll Road Information Management System

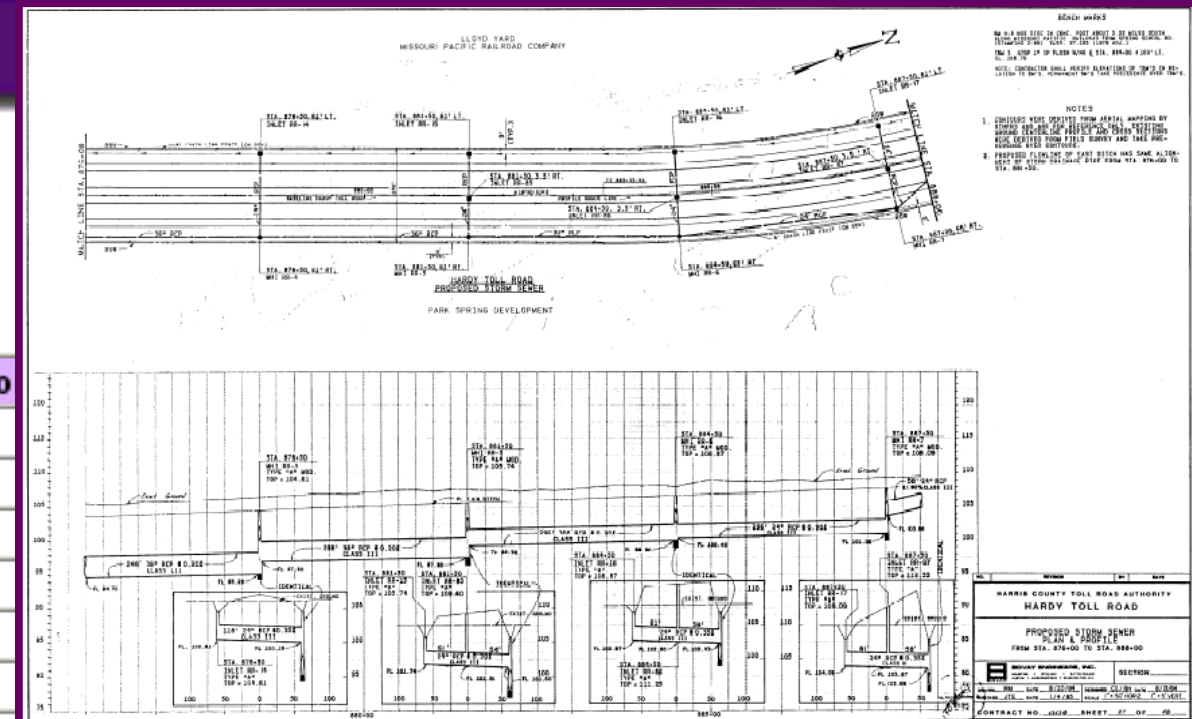
T.R.I.M.S.

HARRIS COUNTY TOLL ROAD AUTHORITY

Hardy Toll Road North Contract 026

[Click here for all contracts](#)

Sheet	PDF	Description
1	Yes	Title Sheet
2	Yes	Typical Sections
3	Yes	Typical Sections
4	Yes	Typical Sections
5	Yes	General Notes Specification Data
6	Yes	General Notes Specification Data
7	Yes	General Notes Specification Data
8	Yes	General Notes Specification Data
9	Yes	General Notes Specification Data
10	Yes	Estimated Quantities
11	Yes	Summary of Quantities Roadway, Drainage, Structural
12	Yes	Summary of Quantities Roadway, Drainage, Structural
13	Yes	Summary of Quantities Roadway, Drainage, Structural
14	Yes	Summary of Quantities Roadway, Drainage, Structural
15	Yes	Roadway Plan and Profile
16	Yes	Roadway Plan and Profile



Search returns web page



The image shows a screenshot of the TRIMS Catalog Data Entry software interface. The main window contains various input fields for project information, including Roadway, File Cabinet #, Location, Project Start Station, Project End Station, Date Sealed, CSJ Number, Engineering Firm, Construction Firm, and Contract Description. A search dialog box is open, prompting the user to enter a search string. The search results are displayed in a separate Microsoft Internet Explorer window, showing a table of results for the search term 'pump'.

TRIMS Catalog Data Entry

File Project Setup AutoLoad Web Pages Reports Search Database Utilities Exit

Toll Road Information Management System

TRIMS_PDF

Enter search string like util

OK

Cancel

Roadway:

File Cabinet #: Drawer #: County Job#:

Location:

Project Start Station: Project End Station:

Date Sealed: CSJ Number:

Engineering Firm:

Construction Firm:

Contract Description:

Delete Contract Edit Contract First < Projects > Last

Drawing Type: Select D

Sheet Description:

Sheet Number: Goto Sheet PDF Filename:

Delete Sheet Stop Editing First < > Last

Exit

HCTRA TRIMS - Search Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address:

Toll Road Information Management System

T.R.I.M.S.

HARRIS COUNTY TOLL ROAD AUTHORITY

Search Results

Contract	Sheet	Description
HTRN-C005	173	Beltway 8 - Frontage Road Overpass Pump House
HTRN-C005	174	Beltway 8 - Frontage Road Overpass Pump House
HTRN-C005	175	Beltway 8 - Frontage Road Overpass Pump House
HTRN-C005	176	Beltway 8 - Frontage Road Overpass Pump House
HTRN-C005	177	Beltway 8 - Frontage Road Overpass Pump House
HTRN-C005	178	Beltway 8 - Frontage Road Overpass Pump House

My Computer

Georeference and Digitize





The screenshot displays a web browser window with two main components:

- Adobe Acrobat - [SHN-C033-0027.pdf]**: A PDF viewer window showing a technical drawing of a road project. The drawing includes various engineering features such as "ENTRANCE RAMP A", "PROPOSED WEST RETAINING WALL No. 2", "PROPOSED BARRIER WALL", and several "INLET" structures (E-3, F-2, F-3, F-4). Stationing is marked along the road, including "PC STA. 1159+06.01" and "STA. 1157+00". The drawing also shows "T501 RAILING", "RIPRAP", and "2' CONG. LINED".
- Map View**: An aerial map view showing a blue line representing a road. A yellow label "Fallbrook Exit" points to a specific location on the road. A tooltip shows the file path "F:\PDF\SHN-C033\SHN-C033-0027.PDF".

The bottom of the browser window shows a status bar with the text "579.44 2632.29 Miles".

Toll Road Information Management System
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HARRIS COUNTY TOLL ROAD AUTHORITY

Houston East - Contract 006 Project Information
27 Miles north of Red Bluff Road to 0.24 miles north of Greenshadow Dr.
by Improvements and Road Construction
19940519
Drawer: 1
Ending Station: 146700
CSJ-3256-03-055
acts CADD Files

Sam Houston East Contract 006

Sheet	PDF	Description
1	Yes	Title Sheet
2	Yes	Index of Sheets
3	Yes	General Notes
4	Yes	General Notes
5	Yes	General Notes
6	Yes	General Notes
7	Yes	General Notes
8	Yes	General Notes
9	Yes	Typical Sections (Roadway)
10	Yes	Typical Sections (Roadway)
11	Yes	Typical Sections (Roadway)
12	Yes	Typical Sections (Roadway)
13	Yes	Summary of Roadway Quantities
14	Yes	Summary of Storm Sewer Quantities
15	Yes	Summary of Storm Sewer Quantities
16	Yes	Summary of Storm Sewer Quantities

Red Bluff Exit

GPS Position

Latitude: 29° 54' 13" N
Longitude: 95° 33' 7" W
Elevation: 38.800 Meters
Speed: 33.142 Miles/Hour
Heading: 314.5 Degrees (true)
Status: Connection open. Receiving data. (Simulation: Gps_200311) **Advanced >>**

Field	Value
FID	5570
Shape	Point
SIGNPOST	SHE-143015-SIGN-SGN-L-01-F
PHOTO.JPG	F:\GIS\HCTRA\Signing\Signpics\SHE-143015-SIGN-SGN-L-01-F.jpg
SIGNPOS	A
PHOTODATE	9/9/2003
COMMENTS	
RATING	9
SIGNNUM	SHE-143015-SIGN-SGN-L-01-F-A
SIGN_SYM	
SIGNTYPE	SR5-1A
ROADWAY	SHE
OFFSET	0
PDF_SHT	SHE-C009-0045
QTY_SHT	SHE-C009-0018
MATERIAL	ALUMINUM
MOUNT	F
REFLECTD	0
OID_	
ID	
CONTRACT	SHE-143015
STATION	143015
LINKPDF	F:\PDF\SHE-C009\SHE-C009-0045.PDF
LINKQTY	F:\PDF\SHE-C009\SHE-C009-0018.PDF

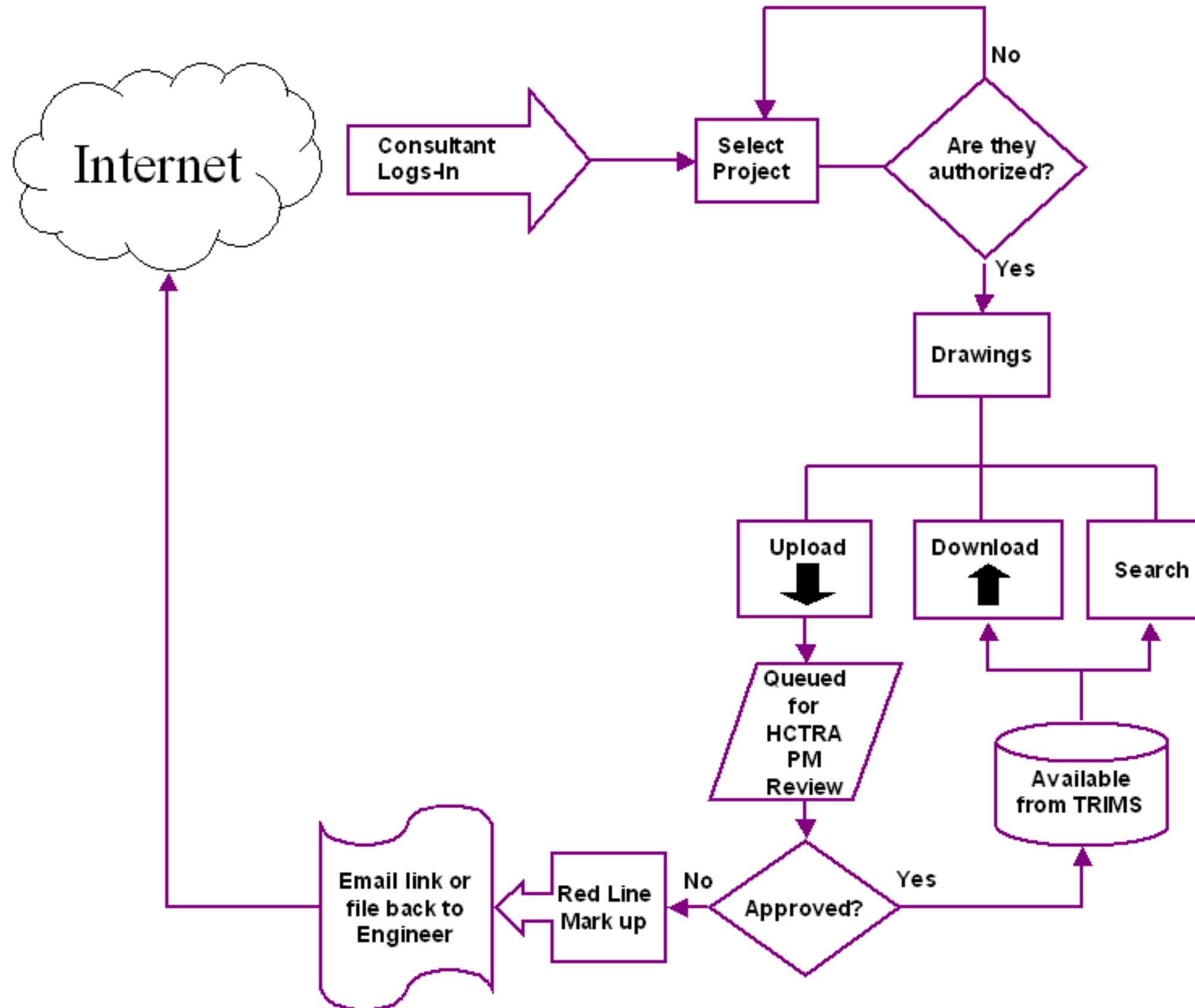
SHE.txt - Notepad

September 15, 2003 06:13 AM
Project Name: HCTRA NAD 27 Surface
Alignment Name: SHE
Alignment Description: Sam Houston East
Alignment Style: default

Station Point	TL	LC	CD	DC	RC	Northing (Y)	Easting (X)
970+00.00 POB						662051.3700	3200041.3300
992+96.16 PC	TL= 2296.1551					662171.6900	3202334.3200
992+96.16 PC		LC= 2676.8221	CD= 38°13'40"	DC= 1°25'41"	RC= -4012.0259	662171.8750	3202334.3066
1019+72.98 PT						663161.3358	3204768.3257
1019+72.98 PT	TL= 5868.5765					663161.3400	3204768.3400
1078+41.55 PC						667029.7000	3209181.5000
1078+41.55 PC		LC= 227.8821	CD= 0°55'34"	DC= 0°24'23"	RC= -14096.8765	667029.6987	3209181.4957
1080+69.44 PT						667181.3228	3209351.6058
1080+69.44 PT	TL= 1215.9228					667181.3300	3209351.6000
1092+85.36 PC						667997.8600	3210252.5700
1092+85.36 PC		LC= 1046.1092	CD= 10°27'36"	DC= 1°00'00"	RC= 5730.1836	667997.8587	3210252.5658
1103+31.47 PT						668625.6987	3211087.3557
1103+31.47 PT	TL= 1915.1254					668625.9000	3211087.3600
1122+46.59 PC						669632.9400	3212716.3400
1122+46.59 PC	LC= 997.0210	CD= 7°28'32"	DC= 0°44'59"	RC= -7641.4715		669632.9388	3212716.3359

- A - Access the Project Database and display drawings by clicking on the roadway centerline**
- B - Access drawings directly by clicking on the feature**
- C - Access photographs of the signs by clicking on it**
- D - Access the baseline geometry by clicking on the centerline**
- E - Access the feature database by clicking on the feature**
- F - The GPS moves the GIS map with you as you drive**

What's Next?



Presented By: Vince Hamilton

From: Michael Baker, Jr. Inc.

Phone: 281-579-4521

Email: vhamilton@mbakercorp.com

Thank you!