Statewide Scheduling Engineers Meeting

August 8 - 9, 2006
Turkey Lake Plaza

Attendees: Richard Massey(SCO), Brenda Haygood(D-2), Jimmy Miller(D-3), Robert McCracken(PBS&J-D-3), Abel Sierra(D-5), Luis Lopez(D-6), Lorie Wilson(D-5), Charlie Manganaro(D-4), Rick Wendling(D-4), Carlos Bermudez(D-4), David Morgan(Tpk), Alan Autry(D-1), Greg Dutton(D-2), Michael Sandow(D-2), Terry Jones(D-7), Michael Feliciano(D-7), Ralph Malpeso(D-7), Larry Zagardo(Jacobs Engineering (D-1))

Richard Massey started the meeting by having everyone go around the room and introducing themselves. After that, Richard went over the agenda items and started with the 3 projects exercise of calculating contract duration. (See table below for each districts calculated time).

DISTRICT	FIN. # 197709-1-52-01	FIN. # 217976-3-52-01	FIN. # 414764-1-52-01
1	550	154 (round to 160)	236
2	510	150(special aquist. 120)	-
3	430 (PBS&J-434)	140 (PBS&J-85)	320 (213-PBS&J)
4	377	130	466
5	350	100 (Procurement 120)	175 (150 Procure)
6	626	127(1.52)=192 (180 Procure)	169(X 1.52)= 257
7	520	110 (120 Day Flex)	275 (60 Day Flex)
8	410	155 (60 Day Flex)	259 (150 Procure)

Note: days are in calendar days

FIN. PROJ. ID # 197709-1-52-01

District 1 -

Calculated 550 days for this project, Contractor calculated 470 days.
Based their activities on regular contract guidelines production rates.

District 2 -

Calculated 510 days with 143 days for utility work schedule. To calculate time they highlight pertinent items that may control time or affect time, issues that have adverse effects! Some of the items were combined ie: earthwork and drainage, sidewalk/curb & gutter, signing, fencing, lighting – landscaping had warranty.

They look at phasing – developed a contract time worksheet that they listed/combined the activities, then plug in production rates and quantities. They have also created a factor form they use for the different type of workweek – 5 day, 6 day or 7 day.
They added the landscaping work in phase IV.

District 3 -

Calculated 430 days (PBS&J calculates 434 days).

They basically follow the same guidelines as D2 above look at items that have adverse affects and controlling items, group items of work where applicable. In setting the contract time they rely on personnel with heavy construction experience. PBS&J (consultant that D3 uses mainly for calculating contract time), uses line item by line item to calculate production rates, they don't calculate by phase, they rely on the contract to stand on its own merit. They take into account what activities follow one another.

District4 -

Calculated 377 calendar days and calculate 255 working days, they like to put in as many quantities as can. They have created additional production rates for their district, but basically followed guidelines.

District 5 -

Calculated 350 calendar days without holidays and mainly used critical items to develop the CPM schedule. They used average production rates of the FDOT Guidelines for Establishing Construction Duration. The utilities are scheduled based on the utilities work schedules and all utility companies time ran concurrent with the project.

District 6 -

Calculated 626 days with 412 days X 1.52 (factor of 5 day workweek + 12 % for anything over 350 days). This equated to 626 days. Their production rates were lower and they look at the plans at 30-60-90 % to determine how to schedule. They also used more activities and only have 3 persons that calculate contract time in their district.

District 7 -

Calculated 520 days using actual days of 420 X factor of 1.09 = 520 days. They use the main items on a project to calculate the contract time and noticed that most of the work was performed on the outer sides of the project. They used the Guidelines for Establishing Contract Duration June 2002 (found on the Construction web site) enhanced by district 7 local production rates from previous construction projects. The 1.09 factor is then applied to the construction duration derived from the Primavera program to correct the requirements of the new scheduling specification and CPAM.

District 8 -

Calculated 410 days. Didn't use any procurement for lighting, detailed the drainage work and this set the critical path for phase #2. Didn't take into account for thermoplastic-calculated for paint- used 14 days for cure but if thermo was used would have used 30 days for cure. This district uses CPM for every project and they use two calendars-working days & calendar days. Use working days and add a day per month (based on Spec 8-6.5).

FIN. PROJ. ID # 217976-3-52-01

District 1-

Calculated 154 days and rounded to 160 days, using a 5 day workweek. Their assumptions were based on the following:

1.) Contract Time was developed based on following the MOT phasing per the TCP.
2.) Although the TCP allows for working on more than 1 phase at a time, provided traffic is handled satisfactorily, assumed a new phase of construction could only start after a previous phase was totally complete (no concurrency in phasing).
3.) Essentially assumed Finish-to-Start relationships for the key work activity.
4.) Combined earthwork items as 1 activity (Reg. Excav., Embank., Subsoil).
5.) Although the stabilization quantity is low (1619sy), 5 days were assumed to complete this item to the turn around time on LBR results.
6.) Assumed a 2nd application of stripping (paint).

District 2-

Calculated 150 calendar days with 120 days for special acquisition. Same scenario as above project they look at phasing operations to determine how to calculate time. Recommend to have let date in the fall and start date in spring.

District 3-

Calculated 140 calendar days and PBS&J calculated 85 days. They lumped a lot of items together, such as drainage items were grouped together. PBS&J didn't take into account the gravity wall and overbuild for asphalt. PBS&J feels the tonnage asphalt production rate was a little low.

District 4 -

Calculated 130 calendar days and didn't take into account using flex time. The widening sections seems to be erratic, seemed it would be hard to build stabilization with a big drop off. The cross sections seemed to vary also, and would recommend a 90 day flex time for poles.

District 5 -

Calculated 100 calendar days with 120 procurement days. They typically use a calculation sheet on small projects less than $5 million dollars and a CPM schedule on projects of more than $5 million dollars. They used average production rates of the FDOT Guidelines for Establishing Construction Duration.

District 6 -

Calculated 127 days times 1.52 factor to equal 192 calendar days, with 180 procurement days. This time was calculated using their own production rates.

District 7 -

Calculated 110 calendar days with 120 flex days. They calculated time by using the new specification and using a factor of 1.09. They used the Guidelines for Establishing Contract Duration June 2002 (found on the Construction web site) enhanced by district 7 local production rates from previous construction projects. However the state's list isn't very extensive and omits many items that affect contract time. Production rates for items that aren't on the state's list are based on their experience, the experience of people in their office, conversations and feedback from Contractors, and discussions with CEI personnel. The 1.09 factor is then applied to the construction duration derived from the Primavera program to correct the requirements of the new scheduling specification and CPAM. On this schedule, they didn't use any items based on production rates from

suppliers, but in the past, they have also spoken with suppliers to get production rates for such things as pond liners.

District 8 -

Calculated 150 calendar days with 60 flex days. Applied all quantities with production rates. Calculated Friction Course along with final stripping.

FIN. PROJ. ID # 414764-1-52-01

District 1 -

Calculated 236 calendar days and grouped all phasing items.

Additional assumptions:

1.) Contract time was developed based on following the MOT phasing per TCP.
2.) A new phase of construction could only start after a previous phase was totally complete (No Concurrency in phasing). However, in Phase 1, allowed bridge and roadway to occur concurrently.
3.) For roadway work items shown to be completed in multiple phases, a quantity for that item for each phase was determined by taking the total quantity for the item and dividing (evenly) by the total number of phases for which the work occurred in a phase.
    i.e. The plans call for structural asphalt to be applied in the following phases: 1A, 1B, 1C, 2, 3A, 3B, 4A, 4B, 5A, 5B, 5C, 6A and 6B (13 phases). The total quantity of structural asphalt was 2901.2 tons and this number was divided by the 13 phases to yield an approximate quantity of 225 tons per phase.
4.) For the milling and resurfacing operations, assumed the same day paved back for any milled areas. This assumption will also comply with Index 600 (Sheet 7 of 10 – Adjacent lane differential on Milling and Resurfacing Ops). With this in mind, did not consider this milling quantity and let the asphalt drive the operation.
5.) The TCP states lane closures allowed only during the hours of 9pm-5:30pm. Considering MOT setups and takedowns, this only allows for a 71/2 hr work production window at best, therefore, assumed on the low side for production rates for night time operations.
6.) Essentially assumed Finish-to-Start relationships for the key work activities.
7.) Allowed 1 work day for each MOT work phase.
8.) Combined some work items as 1 activity. i.e. Added the various “Base” pay items as one total quantity (applied note 3 above). Some other items combined: 1.) Reg. Excav. and Embankment 2.) Both Pipe items(ss) and the French Drain 3.) E&F curb and gutter 4.) Sodding items
9.) Although the stabilization quantity is low (1754 sy) for each of the 3 phases that this work occurs, 5 days were assumed for each phase to complete this item due to the turn around time on LBR results.
10.) Utilities not factored into the project.

District 2 -

Did not calculate time on this project due to problems opening file.

District 3 -

Calculated 320 calendar days (PBS&J calculated 213 days). The bridge work was considered non-critical, calculated 80 days. Front loaded some of the drainage, which was calculated first with 42 days. Noticed that there were different restrictions on painting asphalt. They included 10 days for stabilization.

District 4 -

Calculated 466 calendar days (calculated 333 working days). They used the low side of production rates, then converted production rates into a 6 hour work shift based on lane closures needed along work zones for access and material delivery, then phased all work by doing mainline with bridge in 3 phases, then side street and ramp work once mainline was completed, and then milling and resurfacing as noted in the plan TCP. Calculated time based on phases of work being performed by following the phasing in the plans.

District 5 -

Calculated 175 calendar days without holidays and 150 days procurement. They used average production rates of the FDOT Guidelines for Establishing Construction Duration. They use critical items for the work activities and in this one the schedule does not show too many concurrency because of the short duration of each activity. They would have considered calculating 200 calendar days with holidays included.

District 6 -

Calculated 260 calendar days, the actual days bid were 230 days. This was an A+B project.

District 7 -

Calculated 275 calendar days with no holidays and 60 days flextime for mast arms. They used the Guidelines for Establishing Contract Duration June 2002 (found on the Construction web site) enhanced by district 7 local production rates from previous construction projects. The 1.09 factor is then applied to the construction duration derived from the Primavera program to correct the requirements of the new scheduling specification and CPAM.

District 8 -

Calculated 259 calendar days with no holidays and 150 days for procurement for materials acquisition. Phase 1A, 1B, & 1C were calculated concurrently with bridge items.

OTHER ISSUES AND COMMENTS ADDRESSED:

As we reviewed the first project, comments were made like, Turnpike doesn't necessarily like A+B Projects, the contractor tends to set the time too tight! District 5 is going to use a couple of pilot projects using A+B concept, and likes the idea of letting contractor setting time. Turnpike uses D/B projects and feels it's similar to A+B, they set the maximum time. They also use the contract daily value to set the LD value which is equal. It appears that A+B projects the contractor can't complete the projects on time in Districts 3&5. District 3 would like to take a spreadsheet of the items and send to the Contractor let them apply the rates for the work items. Designers don't have the experience to calculate time, they are optimistic with their time.

Question was asked, who calculates time in your district? District 1 uses in-house and CEI and base their activities on regular construction guidelines production rates. District 2 sends the projects out to project administrators and they set the time. Gainesville has 1 person to calculate time. Basically 2-3 districts have 1 person to calculate time. CCEI's are also used to calculate time. District 3,5 are doing full plans reviews-design firms do their own reviews. District 5 sets their own time on in-house projects. On consultant designed projects D-5 requires the designer to set time and then the district scheduling engineer reviews the time for consistency.

All districts require utility work schedules to be signed before contract time is set.

Overall Utility Relocate Work Schedules are still coming in late.

ACTION ITEM: Check with Brian or Dave about night time work window, some districts are restricted to certain hours ie: District 2 can only close from 10:00 PM till 5:00 AM. This restriction was applied to a specific project and each project is unique in it's restrictions for lane closures.

As projects are nearing completion, some districts notify everyone applicable of the final days and when complete. One way District 5 does this is through "extinguish the torch" process (see D5 website). This is a thorough process that when initiated it closes all open issues on a project.

AGENDA ITEMS:

3.) Changes to Contract Time Extensions (Specifications 8-7.3.2) –
ACTION ITEM: Question ? – What do we do if a Prime Contractor such as APAC S.E. wants to take a week vacation and APAC N.E. doesn't want to, they want to continue working? According to the spec "the Company/Corporate" has to request a vacation, in this case APAC S.E. couldn't take a vacation?

Scheduling Engineers want to put the spec back like it was!
Utility Impacts – unknown conflicts D6 is doing cores to locate, D7 is going back to SUE personnel for areas of conflict.

5 through 8 Lane Rental Fees, Specs 8-13.1 – How do we come up with fees? District 3 PBS&J has come up with a spreadsheet that calculates a user cost. Set the bonus and limit the amount.

9.) Scope Review Meetings – Most districts review the scope in-house, District 3 uses a "Full Service Contract", they have consultants perform this and they review plans at 60 %.

10.) There was a consensus that there needs to be separate production rates by region (district) and by area. They feel there is enough differences throughout the state that would warrant this.

Consideration of Bid Specs (3-1)
D7 is looking at it, D4 is looking at it with a "weigh-in-motion" project.

Charlie Long of Transoft, Inc gave a demonstration of a new software his firm developed called "Dynamic Event Driven – CPM", which provides an active working model of the projects schedule for tracking and analyzing the progress of a project. It was determined that this would

be a good tool for claims settlements. Richard informed the participants at the meeting that Charlie had given this presentation in Tallahassee and that Dave Sadler and Brian Blanchard along with Central Office Attorneys sat through this and concluded the same. We targeted two(2) separate projects (one in D3 & one in D7) to pilot this software. District 7 is on –going and District 3 hasn't begun yet.

Meeting adjourned at 11:30 AM.

BELOW ARE PROJECT SCHEDULES FROM EACH DISTRICT

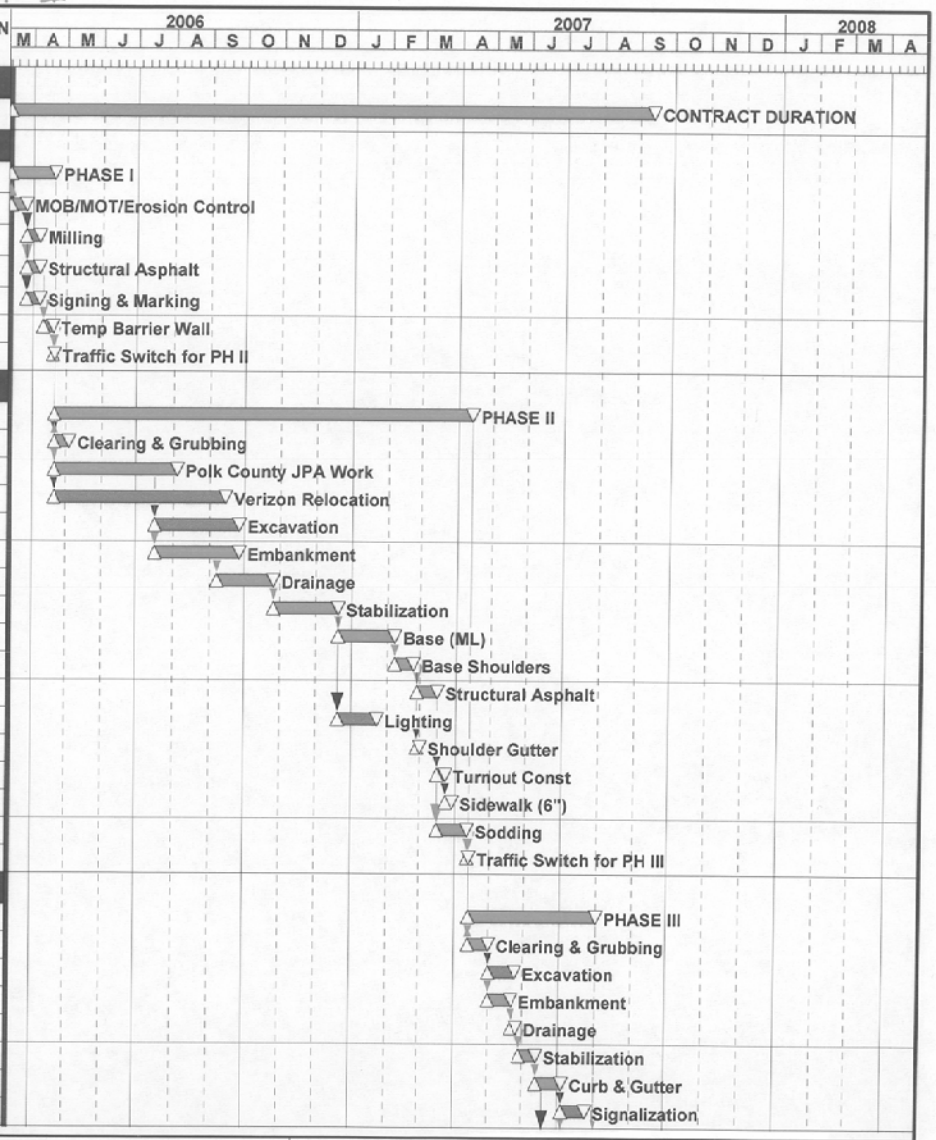
BEGINNING WITH

FINANCIAL PROJECT

197709-1-52-01
THEN
217976-3-52-01
THEN
414764-1-52-01

- DIST 1 -

Activity ID	Activity Description	Early Start	Early finish	UNIT OF WORK	PRODUCTION RATE
CONTRACT DURATION					
10	CONTRACT DURATION	13MAR06	12SEP07	0.00	0.00
PHASE I					
100	PHASE I	13MAR06	19APR06	0.00	0.00
105	MOB/MOT/Erosion Control	13MAR06	26MAR06	0.00	0.00
110	Milling	27MAR06	07APR06	80,650.00	8,065.00
120	Structural Asphalt	27MAR06	07APR06	8,290.00	829.00
130	Signing & Marking	27MAR06	07APR06	0.00	0.00
140	Temp Barrier Wall	10APR06	18APR06	20,400.00	2,914.29
150	Traffic Switch for PH II	19APR06	19APR06	0.00	0.00
PHASE II					
200	PHASE II	20APR06	12APR07	0.00	0.00
205	Clearing & Grubbing	20APR06	03MAY06	0.00	0.00
207	Polk County JPA Work	20APR06	03AUG06	0.00	0.00
208	Verizon Relocation	20APR06	14SEP06	0.00	0.00
210	Excavation	17JUL06	26SEP06	76,900.00	1,538.00
215	Embankment	17JUL06	26SEP06	18,360.00	367.20
220	Drainage	08SEP06	25OCT06	7,027.00	206.68
225	Stabilization	26OCT06	20DEC06	57,811.00	1,521.34
230	Base (ML)	21DEC06	07FEB07	35,590.00	1,318.15
235	Base Shoulders	08FEB07	23FEB07	13,573.00	1,131.08
240	Structural Asphalt	26FEB07	15MAR07	18,896.00	1,349.71
245	Lighting	21DEC06	23JAN07	82.00	5.13
250	Shoulder Gutter	26FEB07	28FEB07	1,006.00	335.33
260	Turnout Const	16MAR07	22MAR07	2,771.00	554.20
265	Sidewalk (6")	23MAR07	28MAR07	513.00	128.25
270	Sodding	16MAR07	11APR07	92,481.00	4,867.42
285	Traffic Switch for PH III	12APR07	12APR07	0.00	0.00
PHASE III					
300	PHASE III	13APR07	01AUG07	0.00	0.00
305	Clearing & Grubbing	13APR07	30APR07	0.00	0.00
310	Excavation	01MAY07	23MAY07	25,625.00	1,507.35
315	Embankment	01MAY07	21MAY07	6,120.00	408.00
320	Drainage	22MAY07	25MAY07	908.00	227.00
325	Stabilization	28MAY07	12JUN07	19,271.00	1,605.92
327	Curb & Gutter	13JUN07	03JUL07	11,878.00	791.87
328	Signalization	04JUL07	24JUL07	0.00	0.00



Start Date	13MAR06
Finish Date	12SEP07
Data Date	13MAR06
Run Date	07AUG06 16:24

Early Bar
Progress Bar
Critical Activity

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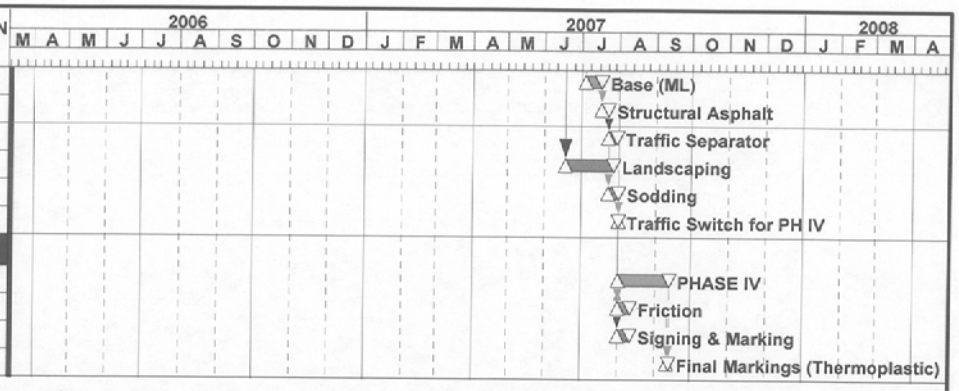
Sheet 1 of 2

Financial Project ID:197709-1-52-01
ESTIMATE OF CONTRACT TIME
County/Section No:Polk/16180
US 27 from CR 547 to Holly Hill

Prepared by Alan Autry, KCCS Inc. 863-519-2228

Date	Revision	Checked	Approved

Activity ID	Activity Description	Early Start	Early finish	UNIT OF WORK	PRODUCTION RATE
330	Base (ML)	04JUL07	17JUL07	11,864.00	1,186.40
335	Structural Asphalt	18JUL07	23JUL07	3,335.00	833.75
340	Traffic Separator	24JUL07	30JUL07	822.00	164.40
342	Landscaping	18JUN07	27JUL07	0.00	0.00
345	Sodding	24JUL07	31JUL07	30,828.00	5,138.00
355	Traffic Switch for PH IV	01AUG07	01AUG07	0.00	0.00
PHASE IV					
400	PHASE IV	02AUG07	12SEP07	0.00	0.00
405	Friction	02AUG07	11AUG07	5,731.00	573.10
410	Signing & Marking	02AUG07	11AUG07	0.00	0.00
420	Final Markings (Thermoplastic)	11SEP07	12SEP07	0.00	0.00



Contract Duration_____550 Days

Approved by:_____Date_____

FPID NUMBER:

197709-1 (01)(02)

SR 25 ROADWORK AND DRAINAGE IMPROVEMENTS

470 days set

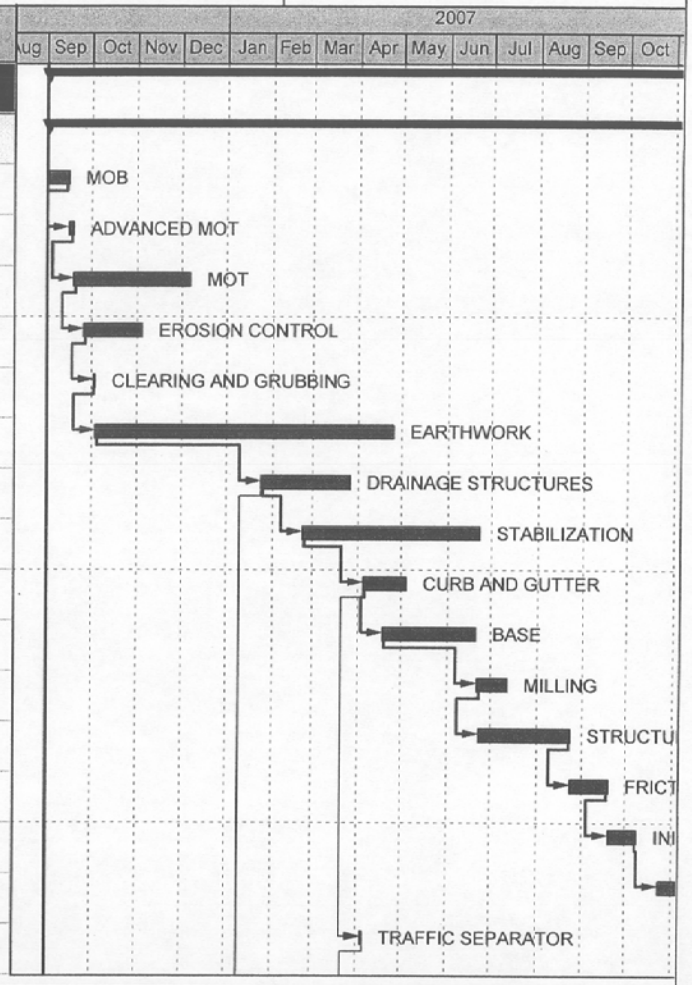
DIST. 3

154 utility days during Phase II

DATA DATE: 01-Sep-06

RUN DATE: 03-Aug-06 13:27

Activity ID	Activity Name	Original Duration	Start	Finish
SR 25 ROADWORK AND DRAINAGE IMPROVEMENTS		434	01-Sep-06	08-Nov-07
197709-1-52-01	JM 430	434	01-Sep-06	08-Nov-07
A1000	MOB	15	01-Sep-06	15-Sep-06
A1010	ADVANCED MOT	1	15-Sep-06	18-Sep-06
A1020	MOT	54	18-Sep-06	06-Dec-06
A1030	EROSION CONTROL	29	25-Sep-06	03-Nov-06
A1040	CLEARING AND GRUBBING	1	02-Oct-06	03-Oct-06
A1050	EARTHWORK	134	03-Oct-06	24-Apr-07
A1060	DRAINAGE STRUCTURES	43	24-Jan-07	26-Mar-07
A1070	STABILIZATION	86	21-Feb-07	22-Jun-07
A1080	CURB AND GUTTER	21	04-Apr-07	03-May-07
A1090	BASE	44	18-Apr-07	20-Jun-07
A1100	MILLING	14	21-Jun-07	12-Jul-07
A1110	STRUCTURAL COURSE	44	22-Jun-07	24-Aug-07
A1120	FRICTION COURSE	15	24-Aug-07	18-Sep-07
A1130	INITIAL PAVEMENT MARKINGS	14	18-Sep-07	08-Oct-07
A1140	FINAL PAVEMENT MARKINGS	13	22-Oct-07	08-Nov-07
A1150	TRAFFIC SEPARATOR	1	04-Apr-07	05-Apr-07



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

TYPICAL FDOT HOLIDAYS INCLUDED

UTILITY TIME NOT INCLUDED

NIGHT WORK CONSIDERED

SCHEDULER CONTACT INFORMATION:

1901 COMMON WEALTH LANE

TALLAHASSEE, FLORIDA 32303

850-575-1800

PBSJ

SCHEDULER: ANW

FPID NUMBER:

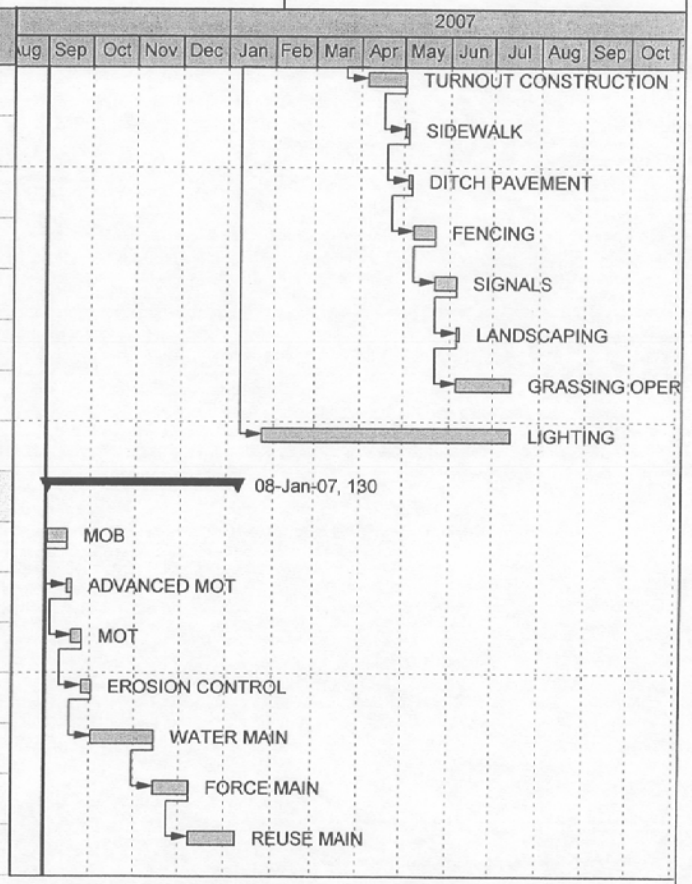
197709-1 (01)(02)

SR 25 ROADWORK AND DRAINAGE IMPROVEMENTS

DATA DATE: 01-Sep-06

RUN DATE: 03-Aug-06 13:27

Activity ID	Activity Name	Original Duration	Start	Finish
A1160	TURNOUT CONSTRUCTION	18	05-Apr-07	01-May-07
A1170	SIDEWALK	2	01-May-07	03-May-07
A1175	DITCH PAVEMENT	3	04-May-07	06-May-07
A1180	FENCING	11	07-May-07	21-May-07
A1190	SIGNALS	10	22-May-07	05-Jun-07
A1200	LANDSCAPING	2	06-Jun-07	07-Jun-07
A1210	GRASSING OPERATION	26	06-Jun-07	12-Jul-07
A1220	LIGHTING	120	24-Jan-07	13-Jul-07
197709-1-56-02		130	01-Sep-06	08-Jan-07
A1230	MOB	15	01-Sep-06	15-Sep-06
A1240	ADVANCED MOT	1	15-Sep-06	18-Sep-06
A1250	MOT	5	18-Sep-06	25-Sep-06
A1260	EROSION CONTROL	5	25-Sep-06	02-Oct-06
A1270	WATER MAIN	30	02-Oct-06	14-Nov-06
A1280	FORCE MAIN	15	14-Nov-06	07-Dec-06
A1290	REUSE MAIN	15	07-Dec-06	08-Jan-07



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

TYPICAL FDOT HOLIDAYS INCLUDED

UTILITY TIME NOT INCLUDED

NIGHT WORK CONSIDERED

SCHEDULER CONTACT INFORMATION:

1901 COMMON WEALTH LANE

TALLAHASSEE, FLORIDA 32303

850-575-1800

PBSJ

SCHEDULER: ANW

STATE ROAD NO 25
POLK COUNTY

PBS+J

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
GENERAL ITEMS										
CONSTRUCTION DURATION IN CALENDAR DAYS	LS					1	434			
MOBILIZATION	LS					1	15			15 DAY TYPICAL
ADVANCED MOT SET-UP	LS					1	1			1 DAY TYPICAL
CONSTRUCTION										
MOT	LS						64			SEE BELOW
WORK ZONE SIGNS	EA	79.89				80	3	30	EA / DAY	
TEMPORARY CURB	LF					0	0	900	LF / DAY	
BARRICADES	EA	247.06				247	0	500	EA / DAY	
TEMPORARY RPM'S	EA	1148				1148	2	500	EA / DAY	
TEMPORARY STRIPING	MI					0	0	4	MI / DAY	
ADVANCED WARNING PANELS	EA	13.81				14	1	15	EA / DAY	
VARIABLE MESSAGE SIGNS	EA	5.50				6	1	10	EA / DAY	
TEMP BARRIER WALLS	LF	20400				20400	45	450	LF / DAY	
TEMPORARY IMPACT ATTENUATORS	EA	25				25	1	20	EA / DAY	
REMOVEABLE PAVEMENT MARKINGS	LF					0	0	19500	LF / DAY	
DURATION TOTALS BY PHASE	DY	64	0	0	0					
EROSION CONTROL	LS						29			SEE BELOW
HAYBALES	EA	8718				8718	15	600	EA / DAY	
TURBIDITY BARRIER	LF					0	0	600	LF / DAY	
SILT FENCE	LF	52432				52432	13	4000	LF / DAY	
SOIL TRACKING DEVICE	EA	4				4	1	6	EA / DAY	
ROCK BAGS / SAND BAGS	EA	80				80	0	400	EA / DAY	
FLOATING TURBIDITY BARRIER	LF					0	0	600	LF / DAY	
DURATION TOTALS BY PHASE	DY	29	0	0	0					
CLEARING AND GRUBBING	AC						1			SMALL QUANTITY
CLEAR AND GRUB	AC					0	0	7	AC / DAY	1-10
REMOVE EXISTING CONCRETE PAVEMENT	SY	781				781	1	800	SY / DAY	
MAILBOXES	EA	2				2	0	26	EA / DAY	
DURATION TOTALS BY PHASE	DY	1	0	0	0					
EARTHWORK	LS						134			SEE BELOW
EARTHWORK	CY					0	0	1000	CY / DAY	PER FDOT CHART
EXCAVATION, BORROW	CY					0	0	1200	CY / DAY	PER FDOT CHART
EXCAVATION, REGULAR	CY	109058				109058	104	1050	CY / DAY	PER FDOT CHART
EXCAVATION, SUBSOIL	CY					0	0	1000	CY / DAY	PER FDOT CHART
EMBANKMENT	CY	24388				24388	30	800	CY / DAY	PER FDOT CHART
DURATION TOTALS BY PHASE	DY	134	0	0	0					
DRAINAGE STRUCTURES	LS						43			SEE BELOW
JACK AND BORE	LF	160				160	8	20	LF/DAY	24" DIAMETER
CONCRETE BOX CULVERTS	CY					0	0	50	CY / DAY	20-80
PRECAST BOX CULVERTS	LF					0	0	100	LF / DAY	50-150
CONCRETE ENDWALLS	CY	18.2				18	1	15	CY / DAY	
WINGWALLS	SF					0	0	150	SF / DAY	100-200
INLETS	EA	50				50	8	6	EA / DAY	
MANHOLES	EA					0	0	4	EA / DAY	
PARTIAL MANHOLE	EA					0	0	6	EA / DAY	
ADJUST MANHOLE	EA					0	0	6	EA / DAY	
VALVE BOX , ADJUST	EA					0	0	8	EA / DAY	
MISC. CONCRETE	CY	3				3	0	15	CY / DAY	
MES	EA	34				34	6	6	EA / DAY	
JUNCTION BOX	EA					0	0	6	EA / DAY	
TEMPORARY PIPE (SLOPE DRAINS)	LF					0	0	400	LF / DAY	
PIPE	LF	7831				7831	20	400	LF / DAY	
DURATION TOTALS BY PHASE	DY	43	0	0	0					
ROADWORK	LS						248			SEE BELOW
TEMPORARY PAVEMENT	SY					0	0	60	SY / DAY	SMALL QUANTITY
STABILIZATION	SY	76971				76971	86	900	SY / DAY	50% DUE TO NIGHT WORK
CONCRETE CURB & GUTTER	LF	12754				12754	21	600	LF / DAY	75% DUE TO NIGHT WORK
TRAFFIC SEPERATOR	LF	822				822	1	600	LF / DAY	75% DUE TO NIGHT WORK
CONCRETE BARRIER WALL	LF					0	0	400	LF / DAY	200-400
BASE	SY	60578				60578	44			75% DUE TO NIGHT WORK
MILLING	SY	84596				84596	14	6000	SY / DAY	75% DUE TO NIGHT WORK
SUPERPAVE ASPH CONC (STRUCTURAL)	TN	22220.4				22220	44			75% DUE TO NIGHT WORK
FRICTION COURSE	TN	5710.9				5731	15	375	TN / DAY	75% DUE TO NIGHT WORK
CONCRETE PAVING	SY					0	0	6000	SY / DAY	
TURNOUT CONSTRUCTION	SY	2744				2744	18	150	SY / DAY	75% DUE TO NIGHT WORK
MISC ASPHALT PAVEMENT	TN	11.9				12	0	45	TN / DAY	
DITCH PAVEMENT	SY	581				581	3	200	SY / DAY	
RIPRAP	TN					0	0	50	TN / DAY	
SIDEWALK CONCRETE	SY	477				477	2	300	SY / DAY	
TEXTURED PAVEMENT	SY					0	0	150	SY / DAY	
DURATION TOTALS BY PHASE	DY	248	0	0	0					

plenty of FC-5 down @ 3/4"

STATE ROAD NO 25
POLK COUNTY

PBS+J

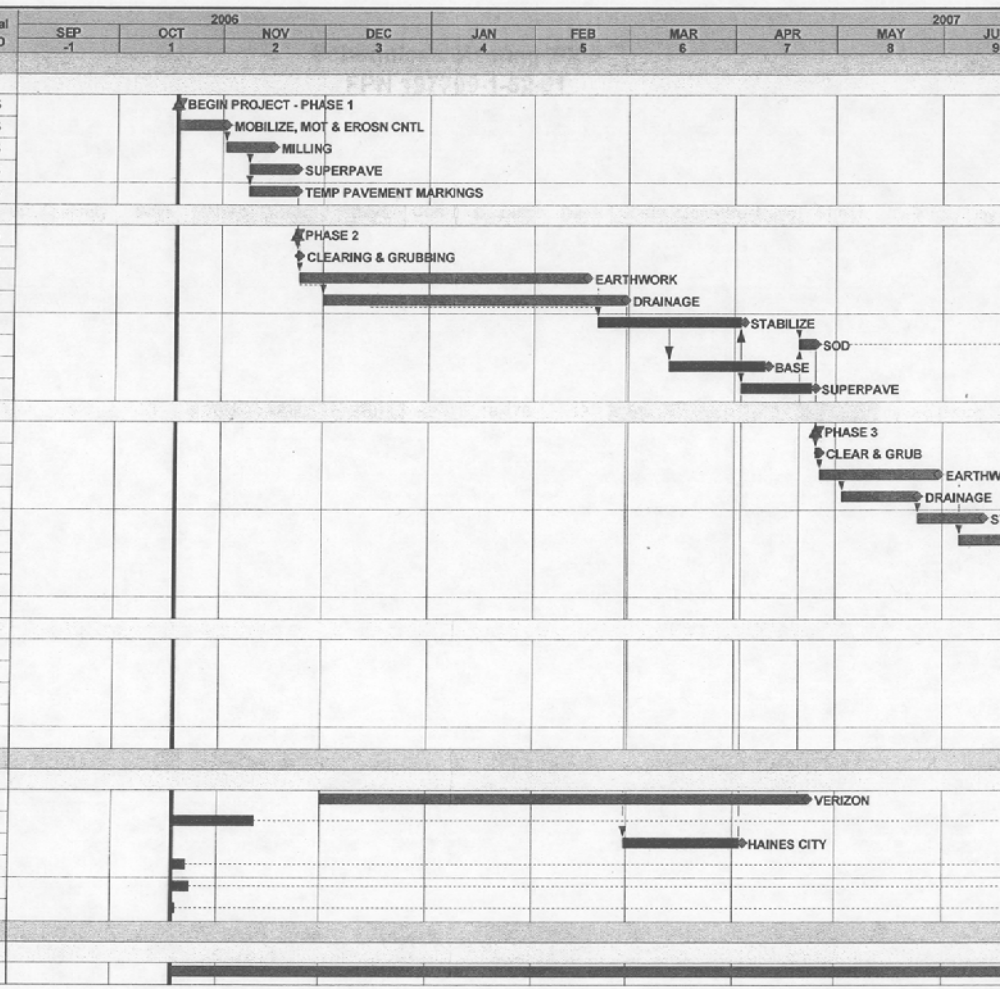
DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
FENCING	LS						11			SEE BELOW
FENCING	LF	2777				2777	11	250	LF / DAY	
GATES	EA	2				2	0	10	EA / DAY	
DURATION TOTALS BY PHASE	DY	11	0	0	0					
PAVEMENT MARKINGS	LS						13			SEE BELOW
REMOVE EXISTING THERMO	SY					0	0	350	SY / DAY	
MESSAGES	EA	133				133	4	30	EA / DAY	
TRAFFIC STRIPE	MI	46.554				46	7	7	MI / DAY	
MISC. STRIPE	LF	7168				7168	2	3000	LF / DAY	
RPM'S	EA					0	0	750	EA / DAY	500-1000
ISLAND NOSE PAINT	SY					0	0	55	SY / DAY	
DURATION TOTALS BY PHASE	DY	13	0	0	0					
SIGNALIZATION	LS						10			SEE BELOW
PER INTERSECTION	PI	4				4	0	15	PI / DAY	
UNDERGROUND CONDUITS	LF	24				24	0	750	LF / DAY	
PULL AND JUNCTION BOXES	EA					0	0	8	EA / DAY	
ELECTRICAL POWER SERVICE	AS					0	0	3	AS / DAY	
SIGNAL HEADS	EA	44				44	4	10	EA / DAY	
POLES	EA	1				1	0	10	EA / DAY	
REMOVE EXISTING SPAN WIRES	EA	1				1	0	20	EA / DAY	
REMOVE EXISTING SIGNAL EQUIPMENT	EA					0	0	8	EA / DAY	
MAST ARMS, SINGLE	EA	4				4	1	4	EA / DAY	
MAST ARMS, DOUBLE	EA					0	0	3	EA / DAY	
TRAFFIC SIGNALS	AS	10				10	1	8	AS / DAY	
PEDESTRIAN SIGNALS	AS					0	0	10	AS / DAY	
CUT LOOP DETECTORS	AS	6				6	1	6	AS / DAY	
LOOP ASSEMBLIES	AS	6				6	1	6	AS / DAY	
PEDESTRIAN DETECTORS	EA					0	0	8	EA / DAY	
SIGN PANELS	EA	4				4	1	6	EA / DAY	
DURATION TOTALS BY PHASE	DY	10	0	0	0					
LIGHTING	LS						120			SEE BELOW
CONDUCTORS	LF	54380				54380	73	750	LF/DAY	
MISC. CONCRETE	CY	60.54				61	4	16	CY / DAY	
UNDERGROUND CONDUITS	LF	17840				17840	24	750	LF / DAY	
PULL AND JUNCTION BOXES	EA	90				90	11	8	EA / DAY	
POLES	EA	82				82	8	10	EA / DAY	
DURATION TOTALS BY PHASE	DY	120	0	0	0					
SIGNING	LS						9			SEE BELOW
SINGLE POST SIGN	AS	31				31	2	16	AS / DAY	
SINGLE POST SIGN REMOVAL	AS	73				73	2	30	AS / DAY	
SINGLE POST SIGN RELOCATE	AS					0	0	10	AS / DAY	
MULTIPOST REMOVAL	AS					0	0	15	AS / DAY	
MULTIPOST F&I	AS					0	0	10	AS / DAY	
OBJECT MARKERS	EA	6				6	1	10	EA / DAY	
SIGN PANELS	EA					0	0	15	EA / DAY	
RELOCATE SIGN PANELS	EA					0	0	10	EA / DAY	
REMOVE SIGN PANELS	EA					0	0	12	EA / DAY	
DELINEATORS	EA	17				17	2	10	EA / DAY	
POLES	EA	1				1	0	10	EA / DAY	
PULL AND JUNCTION BOXES	EA	5				5	1	8	EA / DAY	
ELECTRICAL POWER SERVICE	AS	1				1	0	3	AS / DAY	
UNDERGROUND CONDUITS	LF	335				335	0	750	LF / DAY	
DIRECTIONAL BORE	LF	160				160	0	600	LF/DAY	LESS THAN 12"
DURATION TOTALS BY PHASE	DY	7	0	0	0					
LANDSCAPING (TREES AND SHRUBS)	LS						2			SEE BELOW
SEEDLINGS	EA					0	0	800	EA / DAY	
1 GAL	EA					0	0	400	EA / DAY	
3 GAL	EA					0	0	200	EA / DAY	
7 GAL	EA					0	0	100	EA / DAY	
LARGER	EA					0	0	35	EA / DAY	
DIRECTIONAL BORE	LF	1364				1364	2	600	LF/DAY	LESS THAN 12"
DURATION TOTALS BY PHASE	DY	2	0	0	0					
GRASSING OPERATION	LS						26			SEE BELOW
FINISH SOIL LAYER	SY	2743				2743	0	15000	SY / DAY	
SEED AND MULCH	SY					0	0	23500	SY / DAY	
SODDING	SY	127006				127006	26	5000	SY / DAY	1500-6000
DURATION TOTALS BY PHASE	DY	26	0	0	0					

STATE ROAD NO 25
POLK COUNTY

PBS+J

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE	PRODUCTION NOTES
GENERAL ITEMS									
CONSTRUCTION DURATION IN CALENDAR DAYS	LS					1	120		
MOBILIZATION	LS					1	15		15 DAY TYPICAL
ADVANCED MOT SETUP	LS					1	1		1 DAY TYPICAL
CONSTRUCTION									
MOT	DY						5		USE 5 DAYS
EROSION CONTROL	DY						5		USE 5 DAYS
WATER MAIN	DY						30		USE 30 DAYS
FORCE MAIN	DY						15		USE 15 DAYS
REUSE MAIN	DY						15		USE 15 DAYS

ID	DESCRIPTION	AMOUNT	UNT	DUR	TF	Cal ID
ROAD WORK						
PHASE 1						
100	BEGIN PROJECT - PHASE 1	0		0	0	5
110	MOBILIZE, MOT & EROSN CNTL	1	LS	10	0	5
120	MILLING	76,138	SY	10	0	5
170	SUPERPAVE	5,557	TON	10	0	5
195	TEMP PAVEMENT MARKINGS	18	MI	10	0	5
PHASE 2						
200	PHASE 2	0		0	0	5
210	CLEARING & GRUBBING	2	LS	1	0	5
220	EARTHWORK	105,754	CY	61	0	5
230	DRAINAGE	6,265	LF	63	0	5
240	STABILIZE	53,880	SY	30	1	5
270	SOD	6,827	SY	3	0	5
280	BASE	42,405	SY	20	1	5
290	SUPERPAVE	12,225	TON	15	1	5
PHASE 3						
300	PHASE 3	0		0	0	5
310	CLEAR & GRUB	1	AC	1	0	5
320	EARTHWORK	26,688	CY	25	0	5
330	DRAINAGE	1,566	LF	16	0	5
340	STABILIZE	23,091	SY	13	0	5
350	CURB & GUTTER	13,576	LF	23	0	5
370	SOD	6,827	SY	3	11	5
380	BASE	18,173	SY	13	0	5
390	SUPERPAVE	4,446	TON	9	0	5
PHASE 4						
400	PHASE 4	0		0	0	5
420	FRICTION COURSE	5,730	TN	10	0	5
480	FINAL STRIPING	18	MI	3	0	5
490	STRIPING CURE PERIOD	1	LS	14	0	2
999	PROJECT COMPLETE	0		0	0	5
UTILITIES						
10	VERIZON	1	LS	143	0	2
20	CENTRAL FLORIDA GAS	1	LS	24	290	2
30	HAINES CITY	1	LS	34	1	2
40	PROGRESS ENERGY	1	LS	4	310	2
50	BRIGHT HOUSE	1	LS	5	309	2
60		0		1	211	1
10000	CONTRACT TIME	0		314*	0	2



Start Date	19OCT06
Finish Date	28AUG07
Data Date	19OCT06
Run Date	07AUG06 15:36

Early Bar
Float Bar
Progress Bar
Critical Activity

TIME

Sheet 1 of 1

SCHEDULER'S MEETING 2006
FPN: 197709-1-52-01
BAY COUNTY
DISTRICT FIVE

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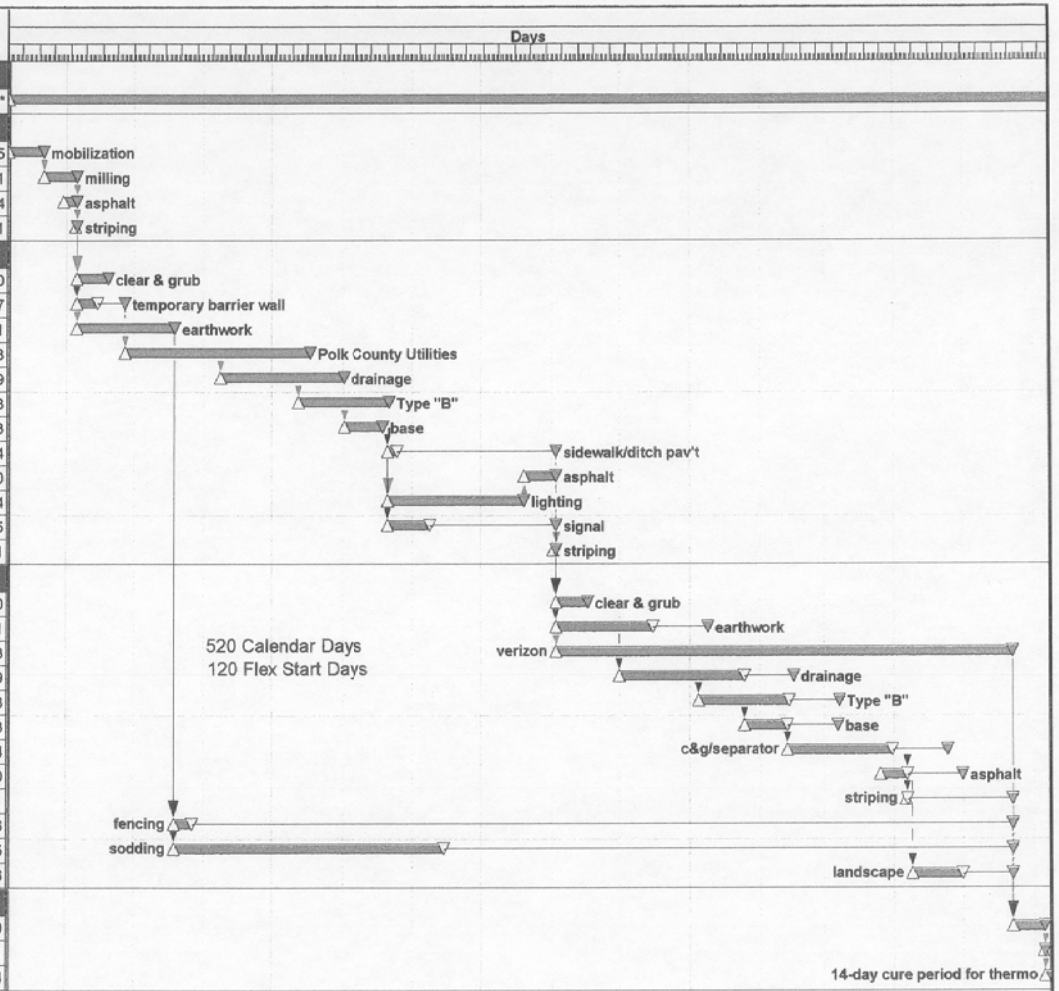
Scheduler's Meeting 2006
FPN 197709-1-52-01
Bay County

Work Days (No Concurrency)	355		Phase													
			I			II			III			IV				
Description of Work	Total	Units	% Comp	Quantity	Days	% Comp	Quantity	Days	% Comp	Quantity	Days	% Comp	Quantity	Days	Quantity Check	Production Rate: Quantity/Day
Roadway																
Mob, MOT & Erosion	1	LS	100%	1	10	0%	0	0	0%	0	0	0%	0	0		0
Clearing and Grubbing	3	AC	0%	0	0	80%	2	1	20%	1	1	0%	0	0		5
Drainage	7,831	LF	0%	0	0	80%	6,265	63	20%	1,566	16	0%	0	0		100
Earthwork	133,442	CY	0%	0	0	80%	106,754	61	20%	26,688	25	0%	0	0		See Graph
Curb & Gutter	13,576	LF	0%	0	0	0%	0	0	100%	13,576	23	0%	0	0		600
Mill Existing Pavement	84,598	SY	100%	84,598	11	0%	0	0	0%	0	0	0%	0	0		8,000
Stabilization	76,971	SY	0%	0	0	70%	53,880	30	30%	23,091	13	0%	0	0		1,800
Base	60,578	SY	0%	0	0	70%	42,405	20	30%	18,173	13	0%	0	0		See Graph
Superpave	22,228	TN	25%	5,557	10	55%	12,225	15	20%	4,446	9	0%	0	0		See Graph
Sodding/Grassing	13,653	SY	0%	0	0	50%	6,827	3	50%	6,827	3	0%	0	0		3,000
Signalization	1	EA	0%	0	0	100%	1	15	0%	0	0	0%	0	0		15
Friction Course	5,730	TN	0%	0	0	0%	0	0	0%	0	0	100%	5,730	10		See Graph
Final Stripping	18	MI	0%	0	0	0%	0	0	0%	0	0	100%	18	3		7
					31			208			103			13		

Activity ID	Activity Description	Original duration
PROJECT DURATION		
10	PROJECT DURATION	479*
PHASE I		
110	mobilization	15
120	milling	11
130	asphalt	4
140	striping	1
PHASE II		
210	clear & grub	10
220	temporary barrier wall	7
230	earthwork	31
490	Polk County Utilities	58
240	drainage	39
250	Type "B"	28
260	base	13
290	sidewalk/ditch pav't	4
270	asphalt	10
300	lighting	44
380	signal	15
280	striping	1
PHASE III		
310	clear & grub	10
320	earthwork	31
400	verizon	143
330	drainage	39
340	Type "B"	28
350	base	13
360	c&g/separator	34
370	asphalt	10
390	striping	1
420	fencing	6
430	sodding	85
440	landscape	16
PHASE IV		
450	friction	10
460	striping	1
470	14-day cure period for thermo	14



Start Date	07MAR06
Finish Date	28JUN07
Data Date	07MAR06
Run Date	27JUL06 15:18

Early Bar
Float Bar
Progress Bar
Critical Activity

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Sheet 1 of 2

FPID:197709-1-52-01
SR. 25 (US.27)
520 Calendar Days
120 Flex Start Days

Prepared by: Ralph Malpeso

Date	Revision	Checked	Approved
	CPAM 1.48 Factor		

DIST 7

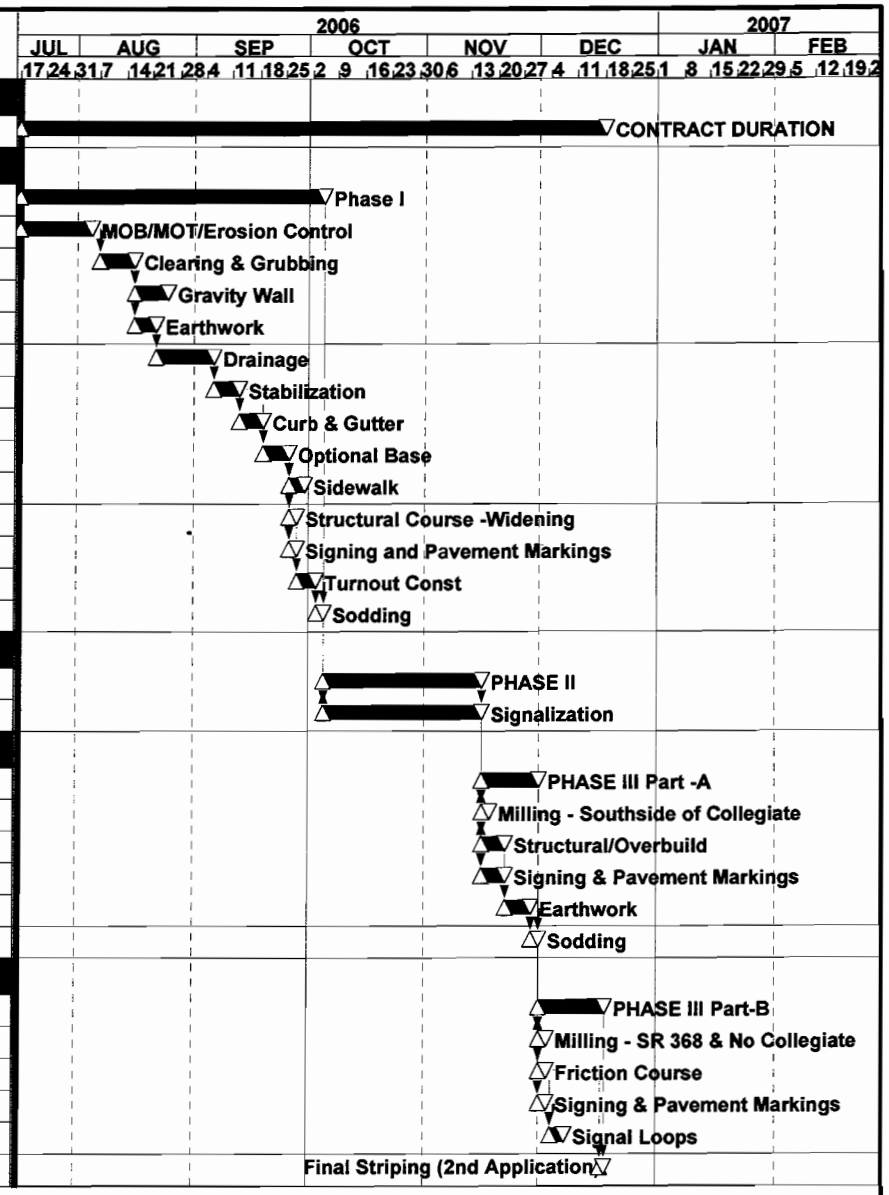
Activity ID	Activity Description	Original duration
480	Thermoplastic	3
410	End of Project	0

Days

Thermoplastic

End of Project

Activity ID	Activity Description	Original Duration	Early Start	Early finish	PLAN QUANTITY	PRODUCTION RATE
CONTRACT DURATION						
10	CONTRACT DURATION	154*	17JUL06	17DEC06	0.00	0.00
PHASE I						
100	Phase I	80*	17JUL06	04OCT06	0.00	0.00
105	MOB/MOT/Erosion Control	15	17JUL06	04AUG06	0.00	0.00
110	Clearing & Grubbing	7	07AUG06	15AUG06	0.00	0.00
112	Gravity Wall	7	16AUG06	24AUG06	0.00	0.00
115	Earthwork	4	16AUG06	21AUG06	932.04	233.01
120	Drainage	9	22AUG06	05SEP06	906.03	100.67
125	Stabilization	5	06SEP06	12SEP06	1,619.00	323.80
130	Curb & Gutter	4	13SEP06	18SEP06	1,272.00	318.00
135	Optional Base	5	19SEP06	25SEP06	1,346.00	269.20
140	Sidewalk	4	26SEP06	29SEP06	876.00	219.00
145	Structural Course -Widening	2	26SEP06	27SEP06	0.00	0.00
147	Signing and Pavement Markings	2	26SEP06	27SEP06	0.00	0.00
148	Turnout Const	3	28SEP06	02OCT06	0.00	0.00
160	Sodding	2	03OCT06	04OCT06	1,069.50	534.75
PHASE II						
200	PHASE II	42*	05OCT06	15NOV06	0.00	0.00
205	Signalization	30	05OCT06	15NOV06	0.00	0.00
PHASE III Part -A						
300	PHASE III Part -A	15*	16NOV06	30NOV06	0.00	0.00
305	Milling - Southside of Collegiate	2	16NOV06	17NOV06	7,175.00	3,587.50
310	Structural/Overbuild	4	16NOV06	21NOV06	0.00	0.00
315	Signing & Pavement Markings	4	16NOV06	21NOV06	0.00	0.00
320	Earthwork	3	22NOV06	28NOV06	702.00	234.00
325	Sodding	2	29NOV06	30NOV06	1,069.50	534.75
PHASE III Part -B						
400	PHASE III Part-B	17*	01DEC06	17DEC06	0.00	0.00
402	Milling - SR 368 & No Collegiate	2	01DEC06	02DEC06	15,950.00	7,975.00
405	Friction Course	2	01DEC06	02DEC06	1,345.00	672.50
410	Signing & Pavement Markings	2	01DEC06	02DEC06	0.00	0.00
415	Signal Loops	4	04DEC06	07DEC06	0.00	0.00
420	Final Striping (2nd Application)	1	17DEC06	17DEC06	0.00	0.00



Start Date	17JUL06
Finish Date	17DEC06
Data Date	17JUL06
Run Date	07AUG06 16:04

Early Bar
Progress Bar
Critical Activity

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Sheet 1 of 1

Financial Project ID:217976-3-52-01
ESTIMATE OF CONTRACT TIME
County/Section No: Bay/46140
State Road 368

Prepared by Larry Zagardo, JEC 863-519-2344

Date	Revision	Checked	Approved

DIST 1

DIST 1

Statewide Scheduling Engineers Exercise **August 8, 2006**

Contract Time Development for **217976-1-52-01**

Assumptions made:

1.) Contract time was developed based on following the MOT phasing per the TCP.

2.) Although the TCP allows for working on more than 1 phase at a time, provided traffic is handled satisfactorily, assumed a new phase of construction could only start after a previous phase was totally complete (No concurrency in phasing).

3.) Essentially assumed Finish-to-start relationships for the key work activities.

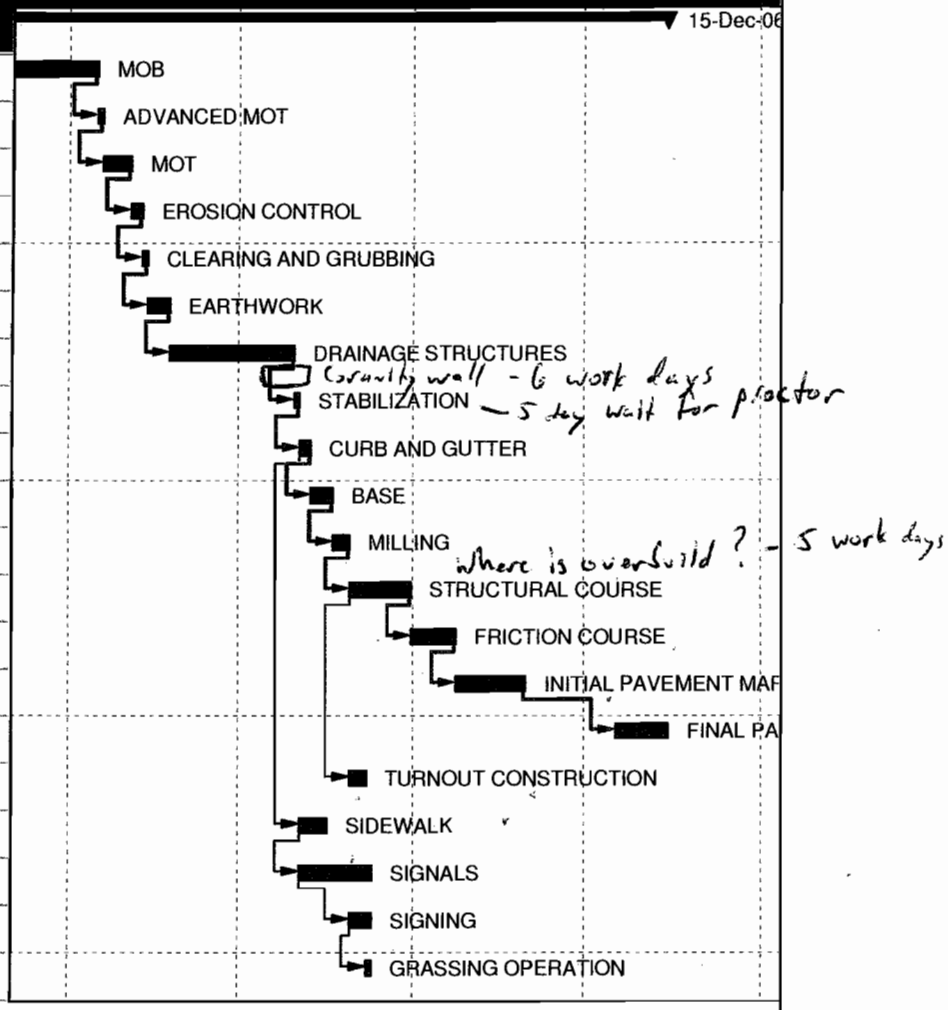
4.) Combined earthwork work items as 1 activity (Reg. Ex, Embankment, Subsoil)

5.) Although the stabilization quantity is low (1619 sys) 5 days were assumed to complete this item due to the turn around time on LBR results.

6.) Assumed a 2nd application of striping (Paint)

FPID NUMBER:	BAY COUNTY ROADWORK	DATA DATE: 21-Aug-06
217976-3-52-01	140 J.M. DIST. 3 (PBSJ)	RUN DATE: 18-May-06 08:13

BAY COUNTY ROADWORK			81	21-Aug-06	15-Dec-06
A1000	MOB		15	21-Aug-06	05-Sep-06
A1010	ADVANCED MOT		1	05-Sep-06	06-Sep-06
A1020	MOT		3	06-Sep-06	11-Sep-06
A1030	EROSION CONTROL		2	11-Sep-06	13-Sep-06
A1040	CLEARING AND GRUBBING		1	13-Sep-06	14-Sep-06
A1050	EARTHWORK		2	14-Sep-06	18-Sep-06
A1060	DRAINAGE STRUCTURES		16	18-Sep-06	10-Oct-06
A1070	STABILIZATION	2	~~1~~	10-Oct-06	11-Oct-06
A1080	CURB AND GUTTER	JM 4	~~2~~	11-Oct-06	13-Oct-06
A1090	BASE Consider base option	5	~~2~~	13-Oct-06	17-Oct-06
A1100	MILLING		3	17-Oct-06	20-Oct-06
A1110	STRUCTURAL COURSE	J.M.-5	~~7~~	20-Oct-06	31-Oct-06
A1120	FRICTION COURSE		6	31-Oct-06	08-Nov-06
A1130	INITIAL PAVEMENT MARKINGS		7	08-Nov-06	20-Nov-06
A1140	FINAL PAVEMENT MARKINGS		7	06-Dec-06	15-Dec-06
A1150	TURNOUT CONSTRUCTION		1	20-Oct-06	23-Oct-06
A1160	SIDEWALK		3	11-Oct-06	16-Oct-06
A1170	SIGNALS		9	11-Oct-06	24-Oct-06
A1180	SIGNING		2	20-Oct-06	24-Oct-06
A1190	GRASSING OPERATION		1	23-Oct-06	24-Oct-06



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

TYPICAL FDOT HOLIDAYS INCLUDED

UTILITY TIME NOT INCLUDED

ACTIVITIES NOT OVERLAPPED DUE TO HIGH TRAFFIC VOLUME AND NIGHT WORK

SCHEDULER CONTACT INFORMATION:

1901 COMMON WEALTH LANE

TALLAHASSEE, FLORIDA 32303

850-575-1800

PBSJ

SCHEDULER: ANW

STATE ROAD NO 368
BAY COUNTY

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
GENERAL ITEMS										
CONSTRUCTION DURATION IN CALENDAR DAYS	LS					1	81			
MOBILIZATION	LS					1	15			15 DAY TYPICAL
ADVANCED MOT SET-UP	LS					1	1			1 DAY TYPICAL
CONSTRUCTION										
MOT	LS						3			SEE BELOW
WORK ZONE SIGNS	EA	25.02381				25	1	30	EA / DAY	
TEMPORARY CURB	LF					0	0	900	LF / DAY	
BARRICADES	EA	43.64286				44	0	500	EA / DAY	
TEMPORARY RPM'S	EA	744				744	1	500	EA / DAY	
TEMPORARY STRIPING	MI					0	0	4	MI / DAY	
ADVANCED WARNING PANELS	EA	0.547619				1	0	15	EA / DAY	
VARIABLE MESSAGE SIGNS	EA	3.297619				3	0	10	EA / DAY	
TEMP BARRIER WALLS	LF					0	0	450	LF / DAY	
TEMPORARY IMPACT ATTENUATORS	EA					0	0	20	EA / DAY	
REMOVEABLE PAVEMENT MARKINGS	LF	5497				5497	0	18500	LF / DAY	
DURATION TOTALS BY PHASE	DY	3	0	0	0					
EROSION CONTROL	LS						2			SEE BELOW
HAYBALES	EA	520				520	1	600	EA / DAY	
TURBIDITY BARRIER	LF					0	0	600	LF / DAY	
SILT FENCE	LF	1700				1700	0	4000	LF / DAY	
SOIL TRACKING DEVICE	EA	2				2	0	5	EA / DAY	
ROCK BAGS / SAND BAGS	EA	60				60	0	400	EA / DAY	
FLOATING TURBIDITY BARRIER	LF					0	0	500	LF / DAY	
DURATION TOTALS BY PHASE	DY	2	0	0	0					
CLEARING AND GRUBBING	AC						1			USE 1 DAY
CLEAR AND GRUB	AC	1.1				1	0	7	AC / DAY	1-10
REMOVE EXISTING CONCRETE PAVEMENT	SY	142				142	0	600	SY / DAY	
MAILBOXES	EA	1				1	0	25	EA / DAY	
DURATION TOTALS BY PHASE	DY	0	0	0	0					
EARTHWORK	LS						2			SEE BELOW
EARTHWORK	CY					0	0	1000	CY / DAY	PER FDOT CHART
EXCAVATION, BORROW	CY					0	0	1200	CY / DAY	PER FDOT CHART
EXCAVATION, REGULAR	CY	219				219	0	1050	CY / DAY	PER FDOT CHART
EXCAVATION, SUBSOIL	CY	230				230	0	1000	CY / DAY	PER FDOT CHART
EMBANKMENT	CY	1185				1185	1	800	CY / DAY	PER FDOT CHART
DURATION TOTALS BY PHASE	DY	2	0	0	0					
DRAINAGE STRUCTURES	LS						16			SEE BELOW
CONCRETE CULVERTS	CY					0	0	50	CY / DAY	20-80
PRECAST CULVERTS	LF	906				906	9	100	LF / DAY	50-150
CONCRETE ENDWALLS	CY	1.3				1	0	15	CY / DAY	
WINGWALLS	SF					0	0	150	SF / DAY	100-200
INLETS	EA	3				3	1	6	EA / DAY	
MANHOLES	EA	2				2	1	4	EA / DAY	
PARTIAL MANHOLE	EA					0	0	6	EA / DAY	
ADJUST MANHOLE	EA					0	0	6	EA / DAY	
VALVE BOX , ADJUST	EA					0	0	8	EA / DAY	
MISC. CONCRETE	CY	87.1				87	6	15	CY / DAY	
MES	EA					0	0	6	EA / DAY	
JUNCTION BOX	EA					0	0	6	EA / DAY	
TEMPORARY PIPE (SLOPE DRAINS)	LF					0	0	400	LF / DAY	
PIPE	LF					0	0	400	LF / DAY	
DURATION TOTALS BY PHASE	DY	16	0	0	0					
ROADWORK	LS						25			SEE BELOW
TEMPORARY PAVEMENT	SY					0	0	60	SY / DAY	SMALL QUANTITY
STABILIZATION	SY	1619				1619	1	1800	SY / DAY	1400-1800
CONCRETE CURB & GUTTER	LF	1272				1272	2	600	LF / DAY	400-800
TRAFFIC SEPERATOR	LF					0	0	800	LF / DAY	
CONCRETE BARRIER WALL	LF					0	0	400	LF / DAY	200-400
BASE	SY	1346				1346	2			PER FDOT CHART
MILLING	SY	23125				23125	3	8000	SY / DAY	8000
SUPERPAVE ASPH CONC (STRUCTURAL)	TN	2158.9				2159	7			PER FDOT CHART
FRICTION COURSE	TN	1345.9				1346	6			PER FDOT CHART
CONCRETE PAVING	SY					0	0	5000	SY / DAY	
TURNOUT CONSTRUCTION	SY	174				174	1	200	SY / DAY	
MISC ASPHALT PAVEMENT	TN					0	0	60	TN / DAY	
DITCH PAVEMENT	SY					0	0	200	SY / DAY	
RIPRAP	TN					0	0	50	TN / DAY	
SIDEWALK CONCRETE	SY	876				876	3	300	SY / DAY	
TEXTURED PAVEMENT	SY					0	0	150	SY / DAY	
DURATION TOTALS BY PHASE	DY	25	0	0	0					

STATE ROAD NO 368
BAY COUNTY

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
RAILING	LS						1			SEE BELOW
HANDRAIL & BICYCLE RAILING	LF	485				485	1	400	LF / DAY	
DURATION TOTALS BY PHASE	DY	1	0	0	0					
PAVEMENT MARKINGS	LS						14			SEE BELOW
REMOVE EXISTING THERMO	SY					0	0	350	SY / DAY	
MESSAGES	EA	174				174	6	30	EA / DAY	
TRAFFIC STRIPE	MI	10				10	1	7	MI / DAY	
MISC. STRIPE	LF	20378				20378	7	3000	LF / DAY	
RPM'S	EA					0	0	750	EA / DAY	500-1000
ISLAND NOSE PAINT	SY					0	0	55	SY / DAY	
DURATION TOTALS BY PHASE	DY	14	0	0	0					
SIGNALIZATION	LS						9			SEE BELOW
PER INTERSECTION	PI	3				3	0	15	PI / DAY	
UNDERGROUND CONDUITS	LF	449				449	1	750	LF / DAY	
PULL AND JUNCTION BOXES	EA	4				4	1	8	EA / DAY	
ELECTRICAL POWER SERVICE	AS					0	0	3	AS / DAY	
SIGNAL HEADS	EA	7				7	1	10	EA / DAY	
REMOVE EXISTING POLES	EA					0	0	10	EA / DAY	
REMOVE EXISTING SPAN WIRES	EA					0	0	20	EA / DAY	
REMOVE EXISTING SIGNAL EQUIPMENT	EA					0	0	8	EA / DAY	
MAST ARMS, SINGLE	EA	2				2	1	4	EA / DAY	
MAST ARMS, DOUBLE	EA					0	0	3	EA / DAY	
TRAFFIC SIGNALS	AS	4				4	1	8	AS / DAY	
PEDESTRIAN SIGNALS	AS	14				14	1	10	AS / DAY	
CUT LOOP DETECTORS	AS	1				1	0	6	AS / DAY	
LOOP ASSEMBLIES	AS	14				14	2	6	AS / DAY	
PEDESTRIAN DETECTORS	EA	16				16	2	8	EA / DAY	
SIGN PANELS	EA	2				2	0	6	EA / DAY	
DURATION TOTALS BY PHASE	DY	9	0	0	0	9				
SIGNING	LS						2			SEE BELOW
SINGLE POST SIGN	AS	16				16	1	15	AS / DAY	
SINGLE POST SIGN REMOVAL	AS	11				11	0	30	AS / DAY	
SINGLE POST SIGN RELOCATE	AS					0	0	10	AS / DAY	
MULTIPOST REMOVAL	AS					0	0	15	AS / DAY	
MULTIPOST F&I	AS					0	0	10	AS / DAY	
OBJECT MARKERS	EA					0	0	10	EA / DAY	
SIGN PANELS	EA	4				4	0	15	EA / DAY	
RELOCATE SIGN PANELS	EA					0	0	10	EA / DAY	
REMOVE SIGN PANELS	EA					0	0	12	EA / DAY	
DELINEATORS	EA					0	0	10	EA / DAY	
DURATION TOTALS BY PHASE	DY	2	0	0	0					
GRASSING OPERATION	LS						1			USE 1 DAY
FINISH SOIL LAYER	SY	2139				2139	0	15000	SY / DAY	
SEED AND MULCH	SY	1592				1592	0	23500	SY / DAY	
SODDING	SY	547				547	0	5000	SY / DAY	1500-5000
DURATION TOTALS BY PHASE	DY	0	0	0	0					

AUGUST 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

OCTOBER 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

DECEMBER 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

LEGEND	
	WEEKENDS
	FDOT HOLIDAYS
	PROJECT SPECIFIC HOLIDAYS

PBS&J

An employee-owned company

MEMORANDUM

TO: Mr. S. J. Benak, District 3 Construction Engineer

FROM: K. Shep. Davis, PBS&J Construction Services

RE: **FPID**: 217976-3
COUNTY: Bay County
DESCRIPTION: Milling and Resurfacing SR 368/Collegiate Drive

CONTRACT TIME

DATE: May 15, 2006

As requested, we have reviewed the referenced Project.

We recommend the estimated Contract Time, rounded up, to be 85 Calendar Days, as supported by the attached Construction Duration Schedule, Back-Up Calculations, and Project Calendar.

If you have any questions or require additional information, please advise us of your requirements.

KSD/ksd

cc: Jimmy Miller, FDOT
File, PBS&J

1901Commonwealth Lane - TALLAHASSEE, FLORIDA 32303 Ph# (850) 575-1800 - FAX: (850) 574-0251

DIST. 3

90 - 120 Prelimnary

114

70

OK 30

Nite work

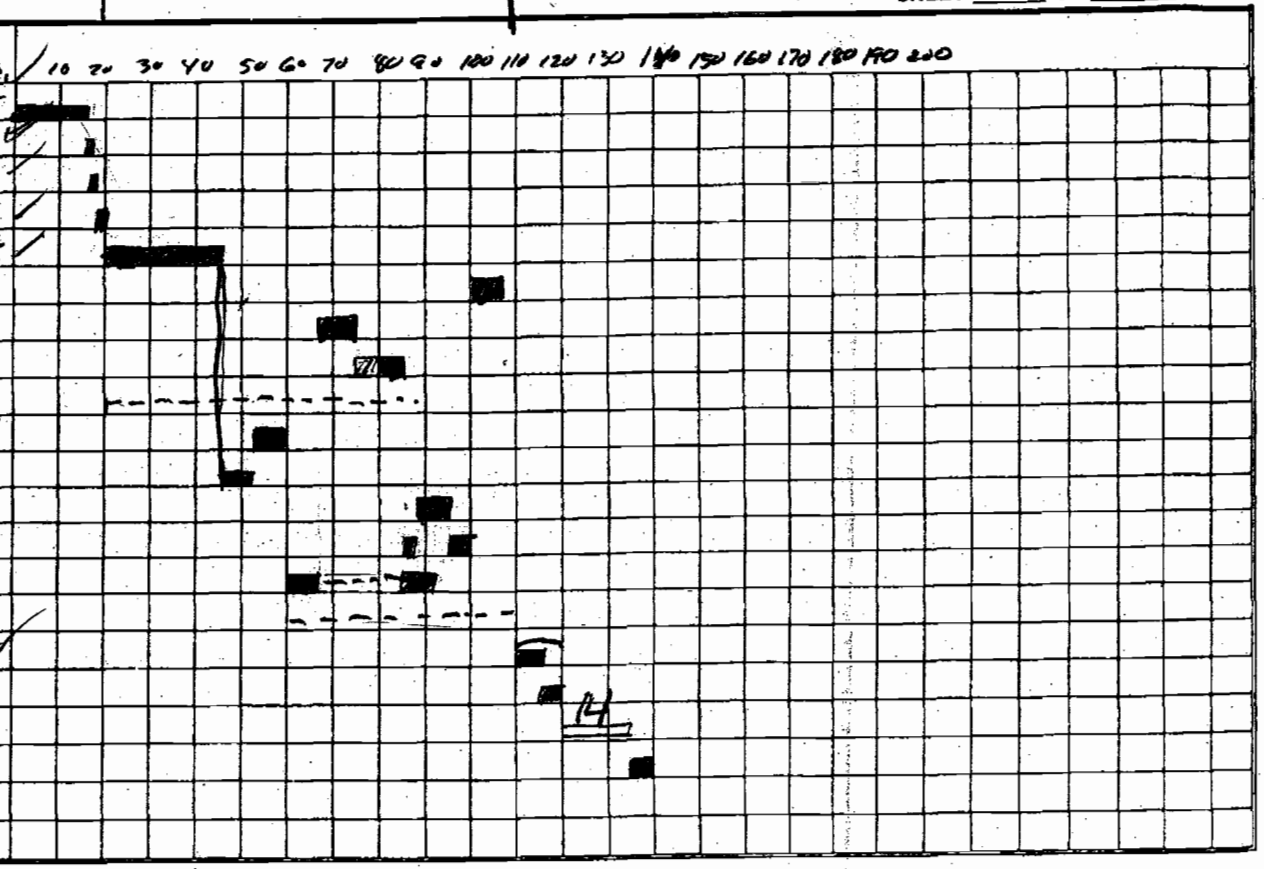
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ESTIMATE OF CONTRACT TIME

FORM 700-010-01 CONSTRUCTION 01/93

2179763520 1

SHEET ____ OF ____

ACTIVITY	UNIT OF WORK	PROD RATE	DAYS	X 1.46
General				15
MOT			1	1
EROSION			1	1
C&G			2	3
Drainage			17	25
Milling			5	8
Stab	1619	800	2	3
BASE		500	[illegible]	
EW / subsoil				
Gravity wall			6	9
Curb/Sidewalk Ph 1	711 SY	200	4	6
SP overbuild			5	7
SP				
Ph 2 signals			4	6
Sod				
FC	1346	500	3	5
striping				
+14				
stripin				

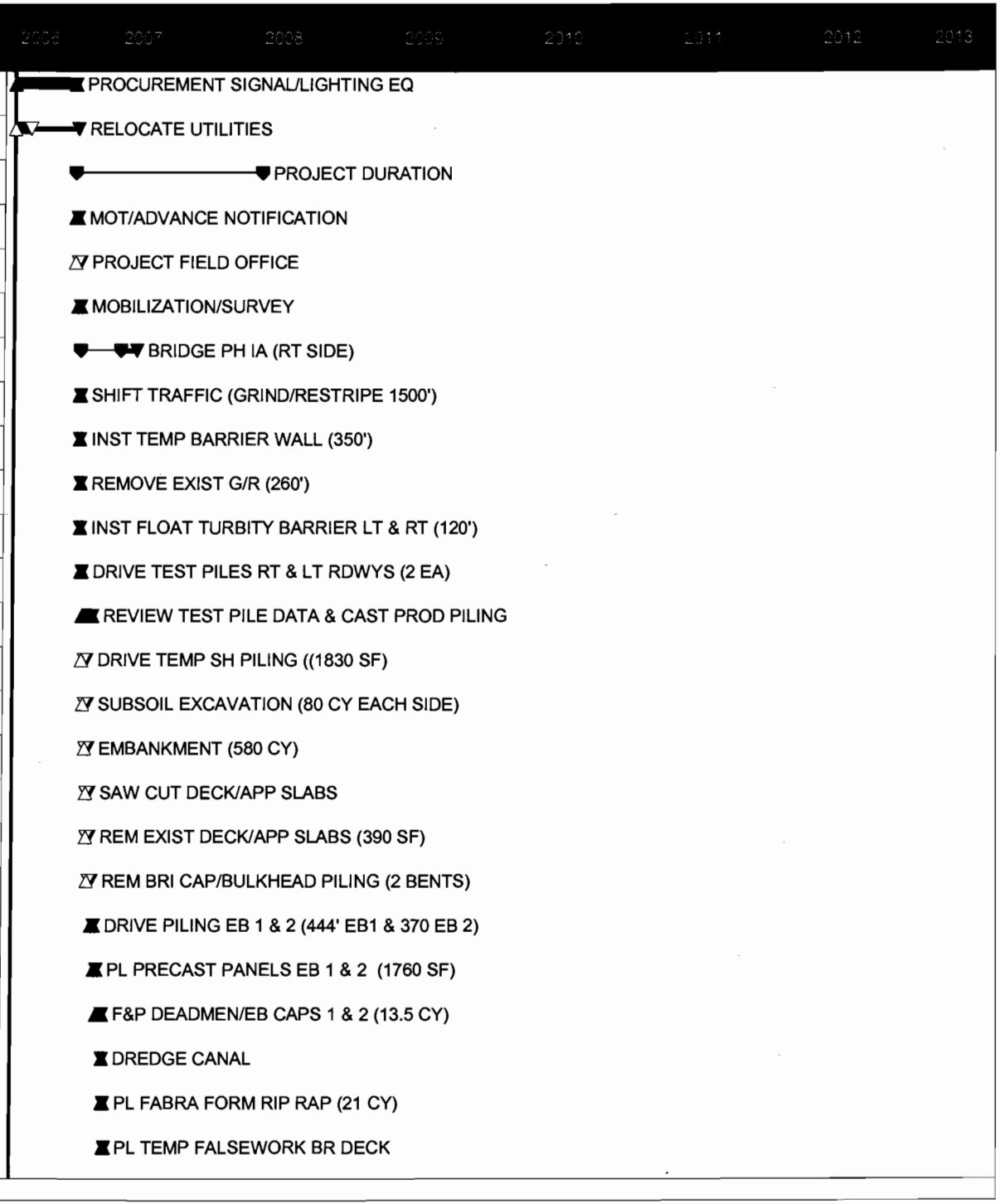


____ TIME PRIORITY ____ INCENTIVE/DIS-INCENTIVE ____ FLEX TIME START ____ SPECIAL WORK HOURS ____
FEDERAL AID PROJECT NO. ____ STATE LEAD PROJECT NO. ____ COUNTY ____ CONTRACT TIME ____ CONTRACT DAYS APPROVED ____
NAME ____ PHONE NO. ____ SUNCOM ____

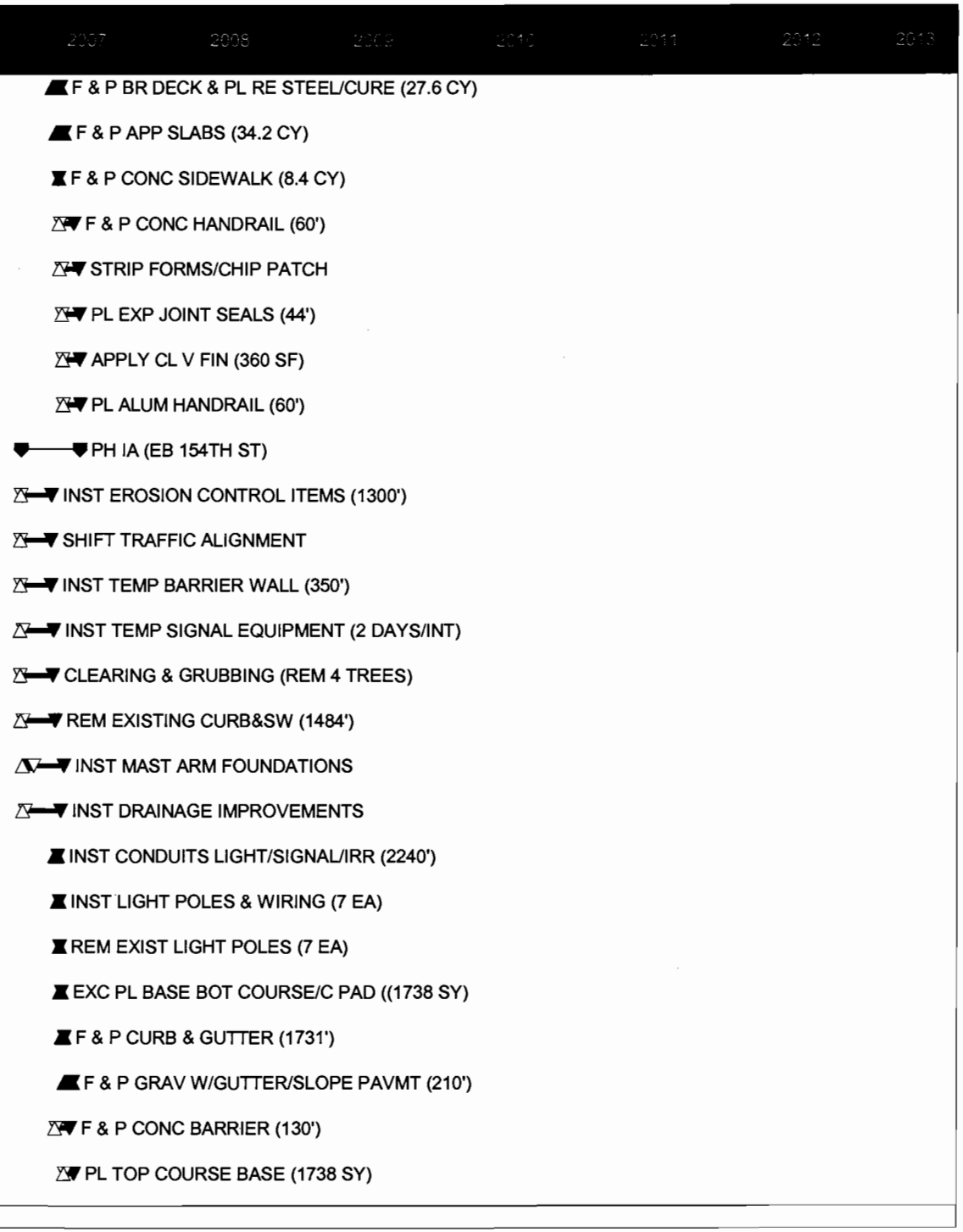
140 days

DIST 4

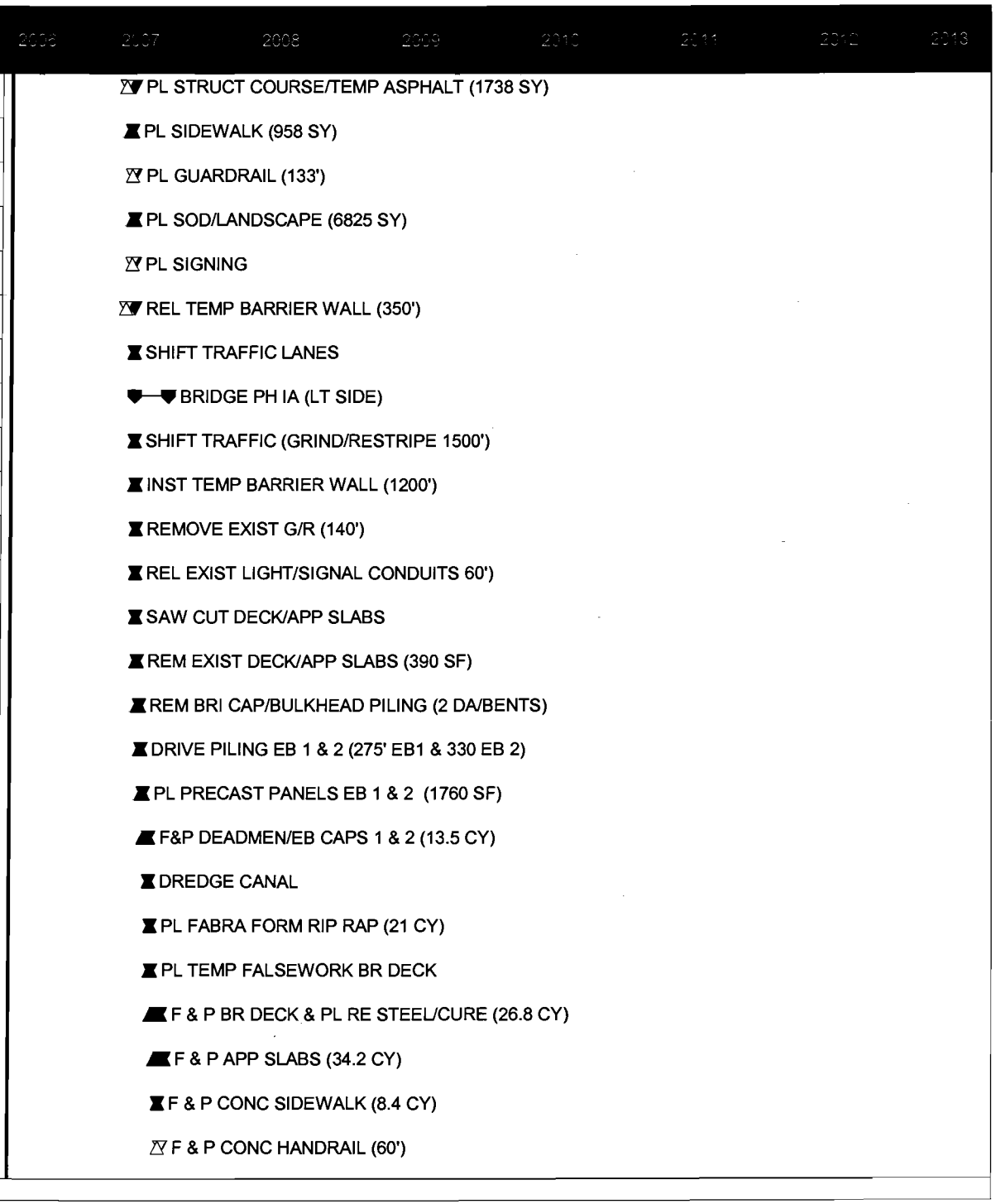
Act ID	Description	Orig Dur	Early Start	Early Finish
1000	PROCUREMENT	101d	04AUG06	08JAN07
1010	RELOCATE UTILITIES	27d	04AUG06	13SEP06
1020	PROJECT DURATION	333d	09JAN07	09MAY08
1030	MOT/ADVANCE	5d	09JAN07	15JAN07
1040	PROJECT FIELD OFFICE	7d	09JAN07	17JAN07
1050	MOBILIZATION/SURVEY	5d	16JAN07	23JAN07
1060	BRIDGE PH IA (RT SIDE)	75d *	24JAN07	08MAY07
1070	SHIFT TRAFFIC	1d	24JAN07	24JAN07
1080	INST TEMP BARRIER WALL	1d	24JAN07	24JAN07
1090	REMOVE EXIST G/R (260')	1d	25JAN07	25JAN07
1100	INST FLOAT TURBITY	1d	25JAN07	25JAN07
1110	DRIVE TEST PILES RT & LT	3d	26JAN07	30JAN07
1120	REVIEW TEST PILE DATA &	20d	31JAN07	27FEB07
1130	DRIVE TEMP SH PILING	4d	31JAN07	05FEB07
1140	SUBSOIL EXCAVATION (80	4d	02FEB07	07FEB07
1150	EMBANKMENT (580 CY)	2d	08FEB07	09FEB07
1160	SAW CUT DECK/APP SLABS	1d	12FEB07	12FEB07
1170	REM EXIST DECK/APP SLABS	2d	13FEB07	14FEB07
1180	REM BRI CAP/BULKHEAD	4d	15FEB07	20FEB07
1190	DRIVE PILING EB 1 & 2 (444'	5d	28FEB07	06MAR07
1200	PL PRECAST PANELS EB 1 &	5d	07MAR07	13MAR07
1210	F&P DEADMEN/EB CAPS 1 &	11d	14MAR07	28MAR07
1220	DREDGE CANAL	1d	29MAR07	29MAR07
1230	PL FABRA FORM RIP RAP (21	2d	30MAR07	02APR07
1240	PL TEMP FALSEWORK BR	2d	03APR07	04APR07



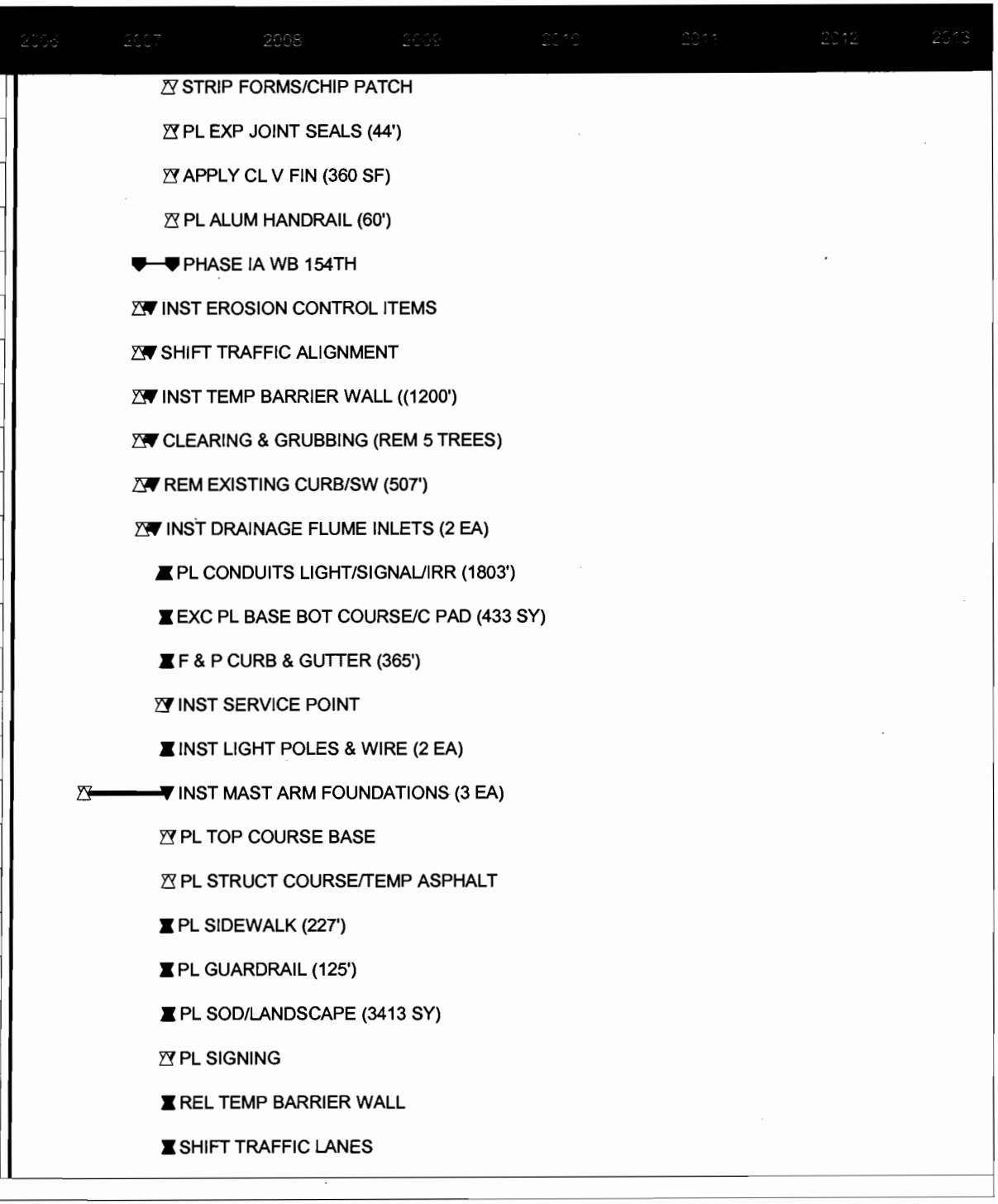
Act ID	Description	Orig Dur	Early Start	Early Finish
1250	F & P BR DECK & PL RE	16d	05APR07	26APR07
1260	F & P APP SLABS (34.2 CY)	16d	16APR07	07MAY07
1270	F & P CONC SIDEWALK (8.4	1d	24APR07	24APR07
1280	F & P CONC HANDRAIL (60')	3d	25APR07	27APR07
1290	STRIP FORMS/CHIP PATCH	5d	27APR07	03MAY07
1300	PL EXP JOINT SEALS (44')	1d	04MAY07	04MAY07
1310	APPLY CL V FIN (360 SF)	1d	07MAY07	07MAY07
1320	PL ALUM HANDRAIL (60')	1d	08MAY07	08MAY07
1330	PH IA (EB 154TH ST)	106d	24JAN07	21JUN07
1340	INST EROSION CONTROL	1d	24JAN07	24JAN07
1350	SHIFT TRAFFIC ALIGNMENT	1d	24JAN07	24JAN07
1360	INST TEMP BARRIER WALL	1d	24JAN07	24JAN07
1370	INST TEMP SIGNAL	6d	24JAN07	31JAN07
1380	CLEARING & GRUBBING	1d	25JAN07	25JAN07
1390	REM EXISTING CURB&SW	5d	26JAN07	01FEB07
1400	INST MAST ARM	21d	01FEB07	01MAR07
1410	INST DRAINAGE	6d	02FEB07	09FEB07
1420	INST CONDUITS	6d	25APR07	02MAY07
1430	INST LIGHT POLES & WIRING	3d	03MAY07	07MAY07
1440	REM EXIST LIGHT POLES (7	2d	08MAY07	09MAY07
1450	EXC PL BASE BOT COURSE/C	4d	10MAY07	15MAY07
1460	F & P CURB & GUTTER (1731')	5d	16MAY07	22MAY07
1470	F & P GRAV	14d	23MAY07	12JUN07
1480	F & P CONC BARRIER (130')	4d	30APR07	03MAY07
1490	PL TOP COURSE BASE (1738	3d	23MAY07	25MAY07



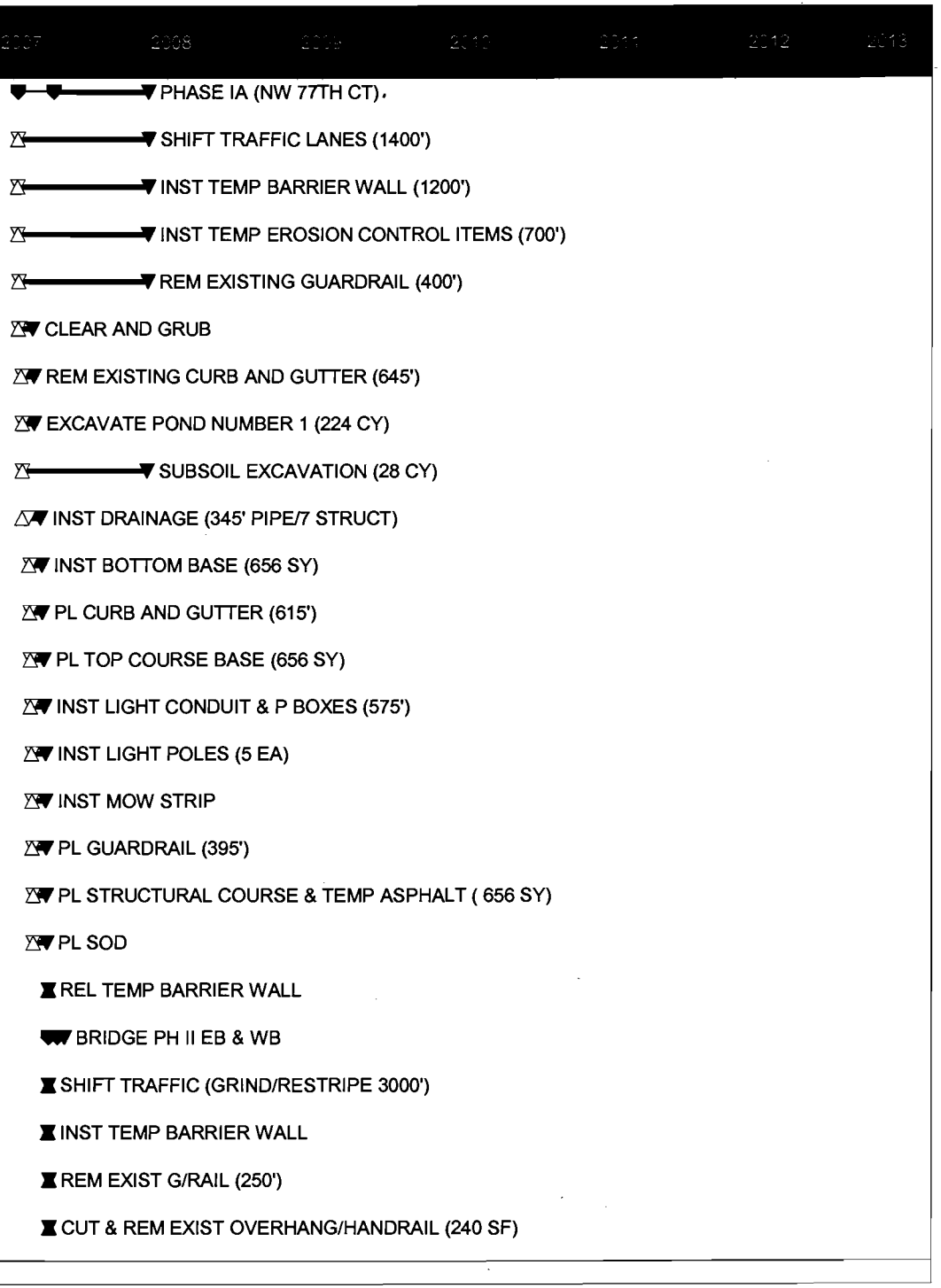
Act ID	Description	Orig Dur	Early Start	Early Finish
1500	PL STRUCT COURSE/TEMP	2d	29MAY07	30MAY07
1510	PL SIDEWALK (958 SY)	4d	08JUN07	13JUN07
1520	PL GUARDRAIL (133')	1d	14JUN07	14JUN07
1530	PL SOD/LANDSCAPE (6825	5d	14JUN07	20JUN07
1540	PL SIGNING	1d	14JUN07	14JUN07
1550	REL TEMP BARRIER WALL	1d	29MAY07	29MAY07
1560	SHIFT TRAFFIC LANES	1d	21JUN07	21JUN07
1600	BRIDGE PH IA (LT SIDE)	59d *	22JUN07	17SEP07
1610	SHIFT TRAFFIC	1d	22JUN07	22JUN07
1620	INST TEMP BARRIER WALL	2d	22JUN07	25JUN07
1630	REMOVE EXIST G/R (140')	1d	26JUN07	26JUN07
1640	REL EXIST LIGHT/SIGNAL	1d	26JUN07	26JUN07
1650	SAW CUT DECK/APP SLABS	1d	27JUN07	27JUN07
1660	REM EXIST DECK/APP SLABS	2d	28JUN07	29JUN07
1670	REM BRI CAP/BULKHEAD	4d	02JUL07	06JUL07
1680	DRIVE PILING EB 1 & 2 (275'	3d	09JUL07	11JUL07
1690	PL PRECAST PANELS EB 1 &	5d	12JUL07	18JUL07
1700	F&P DEADMEN/EB CAPS 1 &	11d	19JUL07	02AUG07
1710	DREDGE CANAL	1d	03AUG07	03AUG07
1720	PL FABRA FORM RIP RAP (21	2d	06AUG07	07AUG07
1730	PL TEMP FALSEWORK BR	2d	08AUG07	09AUG07
1740	F & P BR DECK & PL RE	16d	10AUG07	04SEP07
1750	F & P APP SLABS (34.2 CY)	16d	21AUG07	13SEP07
1760	F & P CONC SIDEWALK (8.4	1d	29AUG07	29AUG07
1770	F & P CONC HANDRAIL (60')	3d	30AUG07	05SEP07



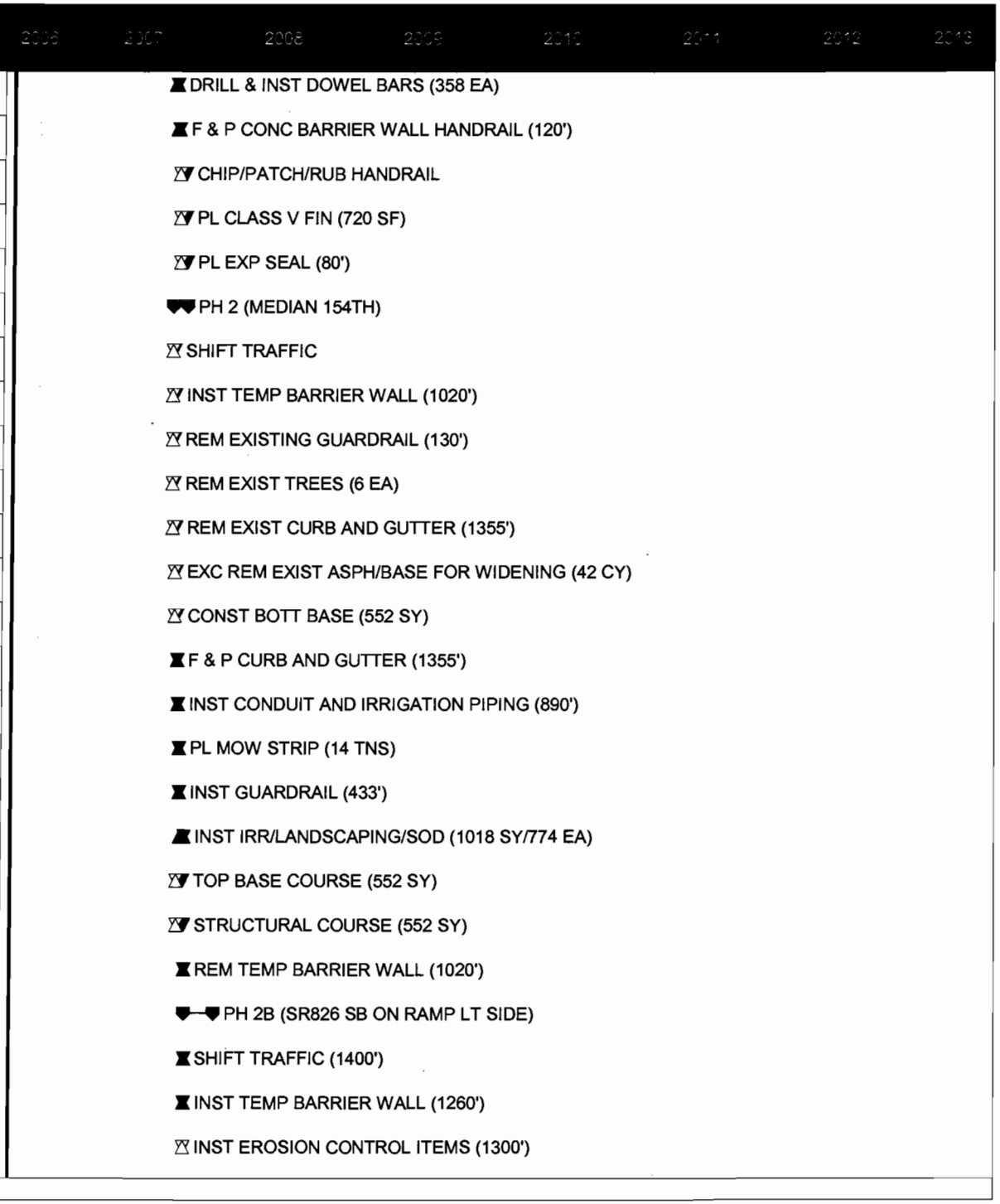
Act ID	Description	Orig Dur	Early Start	Early Finish
1780	STRIP FORMS/CHIP PATCH	5d	06SEP07	12SEP07
1790	PL EXP JOINT SEALS (44')	1d	13SEP07	13SEP07
1800	APPLY CL V FIN (360 SF)	1d	14SEP07	14SEP07
1810	PL ALUM HANDRAIL (60')	1d	17SEP07	17SEP07
1900	PHASE IA WB 154TH	61d *	25JUN07	20SEP07
1910	INST EROSION CONTROL	1d	25JUN07	25JUN07
1920	SHIFT TRAFFIC ALIGNMENT	1d	25JUN07	25JUN07
1930	INST TEMP BARRIER WALL	2d	26JUN07	27JUN07
1950	CLEARING & GRUBBING	1d	28JUN07	28JUN07
1970	REM EXISTING CURB/SW	4d	29JUN07	05JUL07
1980	INST DRAINAGE FLUME	1d	06JUL07	06JUL07
1990	PL CONDUITS	5d	29AUG07	06SEP07
2000	EXC PL BASE BOT COURSE/C	1d	07SEP07	07SEP07
2010	F & P CURB & GUTTER (365')	2d	10SEP07	11SEP07
2020	INST SERVICE POINT	1d	29AUG07	29AUG07
2030	INST LIGHT POLES & WIRE (2	1d	12SEP07	12SEP07
2040	INST MAST ARM	3d	07FEB07	09FEB07
2050	PL TOP COURSE BASE	1d	14SEP07	14SEP07
2060	PL STRUCT COURSE/TEMP	1d	17SEP07	17SEP07
2070	PL SIDEWALK (227')	1d	13SEP07	13SEP07
2080	PL GUARDRAIL (125')	1d	14SEP07	14SEP07
2100	PL SOD/LANDSCAPE (3413	3d	17SEP07	19SEP07
2110	PL SIGNING	1d	14SEP07	14SEP07
2120	REL TEMP BARRIER WALL	1d	20SEP07	20SEP07
2130	SHIFT TRAFFIC LANES	1d	20SEP07	20SEP07



Act ID	Description	Orig Dur	Early Start	Early Finish
2140	PHASE IA (NW 77TH CT)	61d *	25JUN07	20SEP07
2150	SHIFT TRAFFIC LANES (1400')	1d	25JUN07	25JUN07
2160	INST TEMP BARRIER WALL	1d	25JUN07	25JUN07
2170	INST TEMP EROSION	1d	26JUN07	26JUN07
2180	REM EXISTING GUARDRAIL	1d	29JUN07	29JUN07
2190	CLEAR AND GRUB	1d	29JUN07	29JUN07
2200	REM EXISTING CURB AND	2d	06JUL07	09JUL07
2210	EXCAVATE POND NUMBER 1	1d	10JUL07	10JUL07
2215	SUBSOIL EXCAVATION (28	1d	11JUL07	11JUL07
2220	INST DRAINAGE (345' PIPE/7	12d	11JUL07	26JUL07
2240	INST BOTTOM BASE (656 SY)	2d	27JUL07	30JUL07
2250	PL CURB AND GUTTER (615')	2d	31JUL07	01AUG07
2260	PL TOP COURSE BASE (656	1d	02AUG07	02AUG07
2270	INST LIGHT CONDUIT & P	2d	03AUG07	06AUG07
2280	INST LIGHT POLES (5 EA)	2d	07AUG07	08AUG07
2300	INST MOW STRIP	1d	09AUG07	09AUG07
2310	PL GUARDRAIL (395')	1d	10AUG07	10AUG07
2320	PL STRUCTURAL COURSE &	1d	13AUG07	13AUG07
2330	PL SOD	1d	14AUG07	14AUG07
2340	REL TEMP BARRIER WALL	1d	20SEP07	20SEP07
2600	BRIDGE PH II EB & WB	16d *	21SEP07	12OCT07
2610	SHIFT TRAFFIC	1d	21SEP07	21SEP07
2620	INST TEMP BARRIER WALL	1d	21SEP07	21SEP07
2630	REM EXIST G/RAIL (250')	1d	24SEP07	24SEP07
2640	CUT & REM EXIST	2d	25SEP07	26SEP07

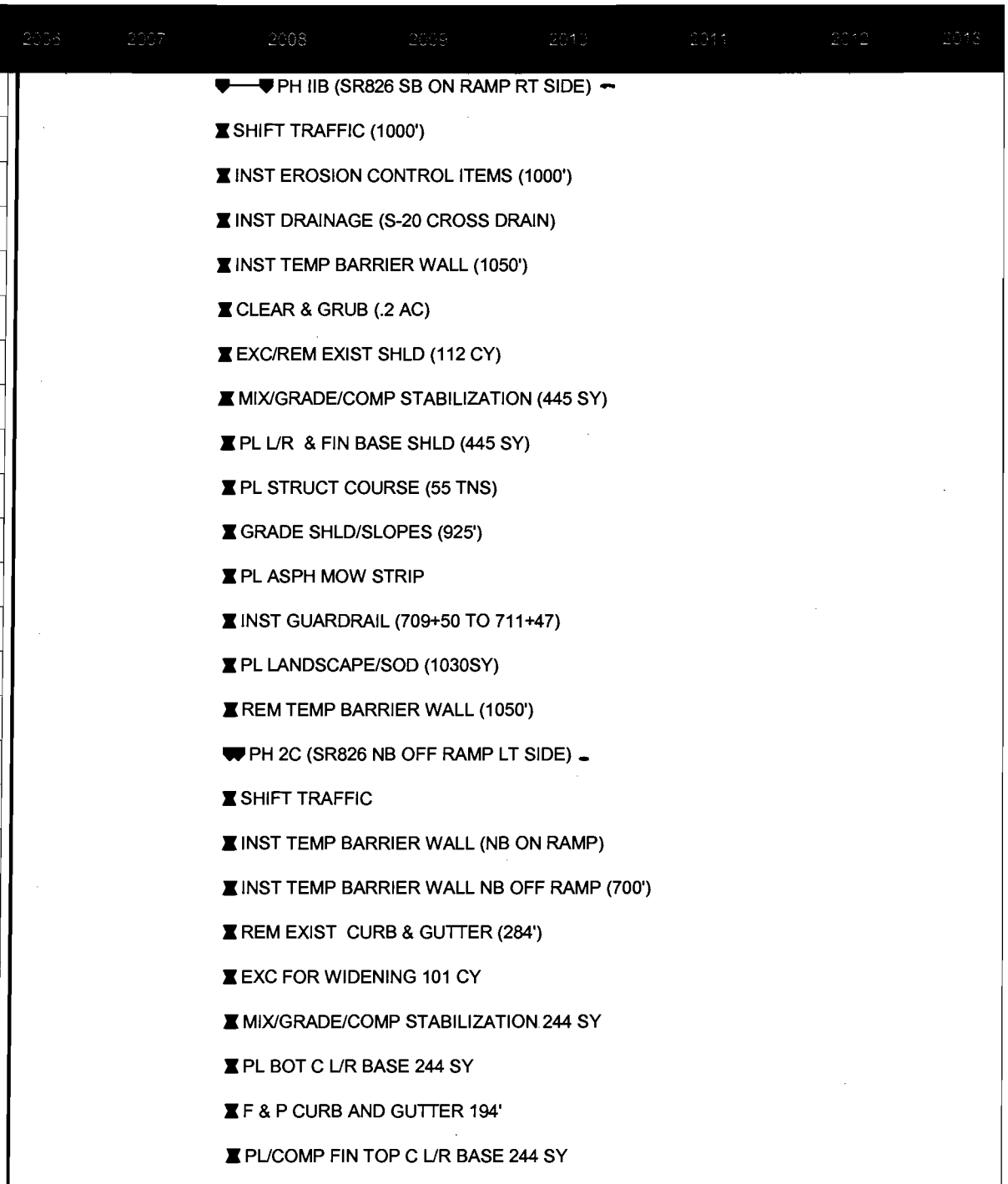


Act ID	Description	Orig Dur	Early Start	Early Finish
2650	DRILL & INST DOWEL BARS	4d	27SEP07	02OCT07
2660	F & P CONC BARRIER WALL	6d	01OCT07	08OCT07
2670	CHIP/PATCH/RUB HANDRAIL	2d	09OCT07	10OCT07
2680	PL CLASS V FIN (720 SF)	1d	11OCT07	11OCT07
2700	PL EXP SEAL (80')	1d	12OCT07	12OCT07
2910	PH 2 (MEDIAN 154TH)	28d *	24SEP07	31OCT07
2920	SHIFT TRAFFIC	1d	24SEP07	24SEP07
2930	INST TEMP BARRIER WALL	2d	24SEP07	25SEP07
2940	REM EXISTING GUARDRAIL	1d	24SEP07	24SEP07
2945	REM EXIST TREES (6 EA)	1d	24SEP07	24SEP07
2950	REM EXIST CURB AND	4d	25SEP07	28SEP07
2960	EXC REM EXIST ASPH/BASE	1d	01OCT07	01OCT07
2970	CONST BOTT BASE (552 SY)	1d	02OCT07	02OCT07
2980	F & P CURB AND GUTTER	1d	09OCT07	09OCT07
2990	INST CONDUIT AND	3d	10OCT07	12OCT07
3000	PL MOW STRIP (14 TNS)	1d	15OCT07	15OCT07
3010	INST GUARDRAIL (433')	1d	16OCT07	16OCT07
3020	INST IRR/LANDSCAPING/SOD	9d	17OCT07	29OCT07
3040	TOP BASE COURSE (552 SY)	1d	09OCT07	09OCT07
3050	STRUCTURAL COURSE (552	1d	10OCT07	10OCT07
3060	REM TEMP BARRIER WALL	2d	30OCT07	31OCT07
3100	PH 2B (SR826 SB ON RAMP	46d *	01NOV07	17JAN08
3110	SHIFT TRAFFIC (1400')	1d	01NOV07	01NOV07
3120	INST TEMP BARRIER WALL	2d	01NOV07	02NOV07
3130	INST EROSION CONTROL	1d	01NOV07	01NOV07

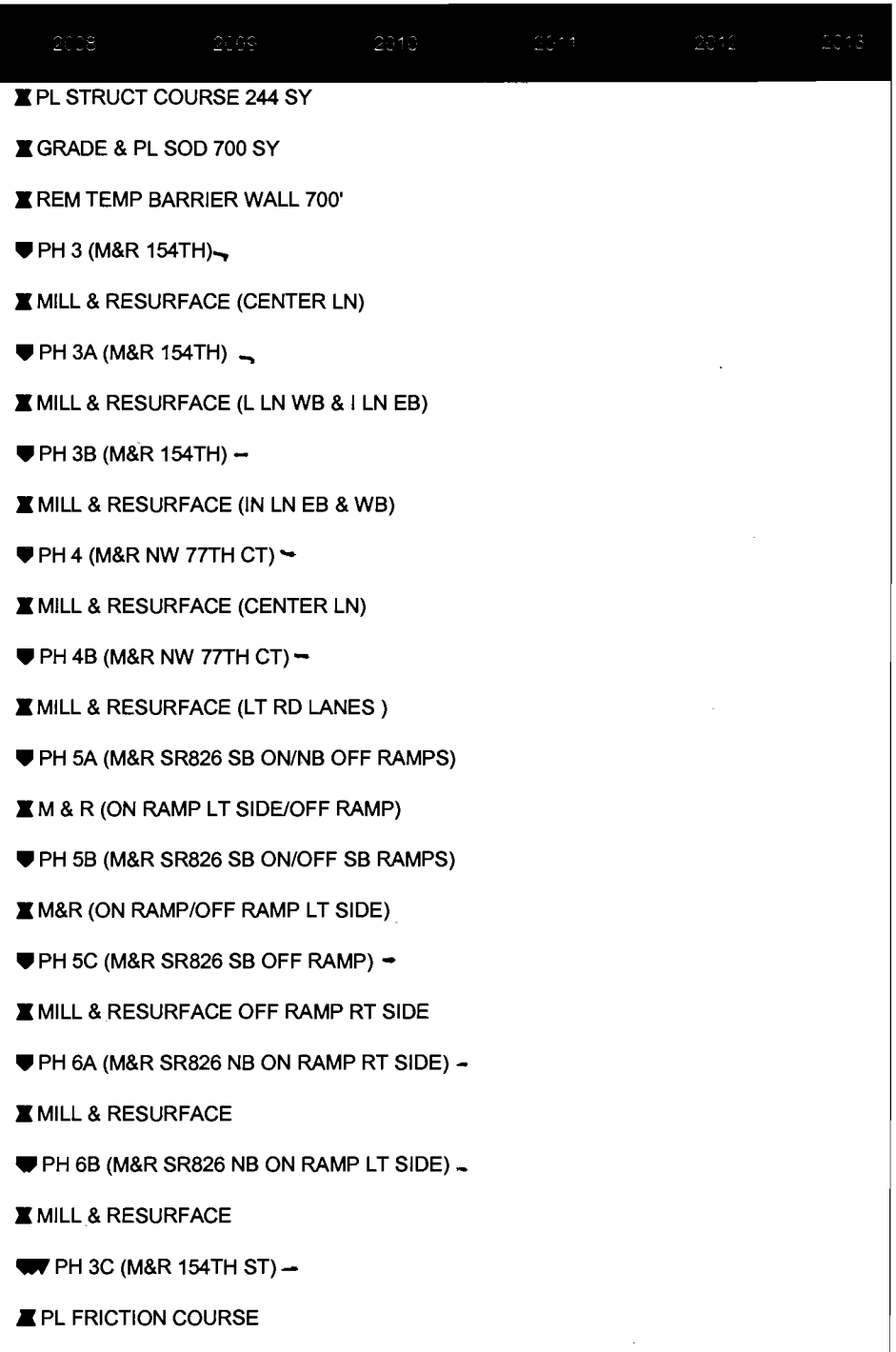


Act ID	Description	Orig Dur	Early Start	Early Finish	2006	2007	2008	2009	2010	2011	2012	2013
3140	REM EXIST GUARDRAIL	2d	05NOV07	06NOV07			REM EXIST GUARDRAIL (1235')					
3150	LIGHTING TEMP WIRING (708	1d	07NOV07	07NOV07			LIGHTING TEMP WIRING (708 TO 710)					
3160	CLEAR AND GRUB (2 AC)	2d	08NOV07	09NOV07			CLEAR AND GRUB (2 AC)					
3170	DRAINAGE (S-20 CROSS	2d	12NOV07	13NOV07			DRAINAGE (S-20 CROSS DRAIN) (1STRUCT/29')					
3180	EXC SUBSOIL (708+60 TO	1d	14NOV07	14NOV07			EXC SUBSOIL (708+60 TO 709+40) (141CY)					
3190	EMBANKMENT	1d	14NOV07	14NOV07			EMBANKMENT					
3200	EXC POND 6/SWALES/CONST	1d	15NOV07	15NOV07			EXC POND 6/SWALES/CONST BERMS					
3210	INST LIGHTING CONDUIT	4d	16NOV07	21NOV07			INST LIGHTING CONDUIT AND BASES (1220'/8)					
3220	INST LIGHT POLES & WIRING	2d	26NOV07	27NOV07			INST LIGHT POLES & WIRING (8 EA)					
3230	REM LIGHT POLES & BASES	1d	28NOV07	28NOV07			REM LIGHT POLES & BASES (7 EA)					
3240	EXC/REM EXIST SHOULDER	1d	29NOV07	29NOV07			EXC/REM EXIST SHOULDER (357 CY)					
3250	MIX/GRADE/COMP	5d	30NOV07	06DEC07			MIX/GRADE/COMP STABILIZATION (2200 SY)					
3260	PL & COMP BOT C L/R BASE	1d	07DEC07	07DEC07			PL & COMP BOT C L/R BASE WIDENING (2200 SY)					
3270	PL & COMP TOP C L/R	1d	10DEC07	10DEC07			PL & COMP TOP C L/R WIDENING/SHLD (2200')					
3280	FIN & COMP L/R BASE	4d	11DEC07	14DEC07			FIN & COMP L/R BASE WIDENING (858')					
3290	PL BOT C STRUCT C	1d	17DEC07	17DEC07			PL BOT C STRUCT C WIDENING					
3300	FIN & COMP L/R SHLD (1166	4d	18DEC07	21DEC07			FIN & COMP L/R SHLD (1166 SY)					
3310	PL STRUCT WIDENING/SHLD	2d	03JAN08	04JAN08			PL STRUCT WIDENING/SHLD (858 SY)					
3320	GRADE SHLD (1260')	1d	07JAN08	07JAN08			GRADE SHLD (1260')					
3330	PL MOW STRIP (42 TNS)	1d	08JAN08	08JAN08			PL MOW STRIP (42 TNS)					
3340	PL LANDSCAPE/SOD (4200	2d	09JAN08	10JAN08			PL LANDSCAPE/SOD (4200 SY/)					
3350	PL GUARDRAIL	1d	11JAN08	11JAN08			PL GUARDRAIL					
3360	REL TEMP BARRIER WALL	2d	14JAN08	15JAN08			REL TEMP BARRIER WALL (1360')					
3370	PL TEMP PAVEMENT	1d	16JAN08	16JAN08			PL TEMP PAVEMENT MARKINGS					
3380	SIGNING	1d	17JAN08	17JAN08			SIGNING					

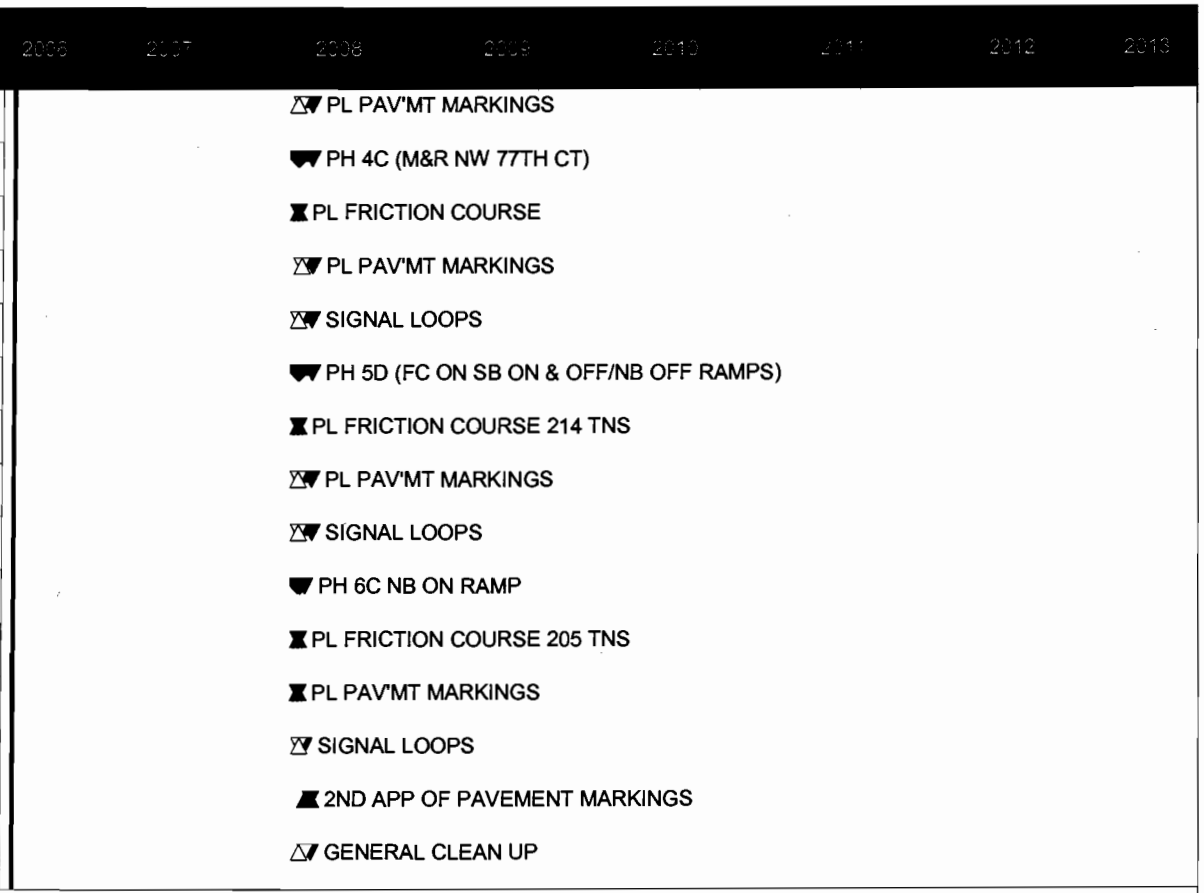
Act ID	Description	Orig Dur	Early Start	Early Finish
3390	PH IIB (SR826 SB ON RAMP	80d *	18JAN08	09MAY08
3400	SHIFT TRAFFIC (1000')	1d	18JAN08	18JAN08
3410	INST EROSION CONTROL	1d	22JAN08	22JAN08
3420	INST DRAINAGE (S-20 CROSS	1d	23JAN08	23JAN08
3430	INST TEMP BARRIER WALL	2d	24JAN08	25JAN08
3440	CLEAR & GRUB (.2 AC)	1d	28JAN08	28JAN08
3450	EXC/REM EXIST SHLD (112	1d	29JAN08	29JAN08
3460	MIX/GRADE/COMP	4d	30JAN08	04FEB08
3470	PL L/R & FIN BASE SHLD (445	4d	05FEB08	08FEB08
3480	PL STRUCT COURSE (55	1d	11FEB08	11FEB08
3490	GRADE SHLD/SLOPES (925')	1d	12FEB08	12FEB08
3500	PL ASPH MOW STRIP	1d	13FEB08	13FEB08
3510	INST GUARDRAIL (709+50 TO	1d	14FEB08	14FEB08
3520	PL LANDSCAPE/SOD	1d	15FEB08	15FEB08
3530	REM TEMP BARRIER WALL	2d	18FEB08	19FEB08
3540	PH 2C (SR826 NB OFF RAMP	16d *	18FEB08	10MAR08
3550	SHIFT TRAFFIC	1d	18FEB08	18FEB08
3560	INST TEMP BARRIER WALL	1d	19FEB08	19FEB08
3570	INST TEMP BARRIER WALL	1d	20FEB08	20FEB08
3580	REM EXIST CURB & GUTTER	1d	21FEB08	21FEB08
3590	EXC FOR WIDENING 101 CY	1d	22FEB08	22FEB08
3600	MIX/GRADE/COMP	3d	25FEB08	27FEB08
3610	PL BOT C L/R BASE 244 SY	1d	28FEB08	28FEB08
3620	F & P CURB AND GUTTER	1d	29FEB08	29FEB08
3630	PL/COMP FIN TOP C L/R	4d	03MAR08	06MAR08



Act ID	Description	Orig Dur	Early Start	Early Finish
3640	PL STRUCT COURSE 244 SY	1d	07MAR08	07MAR08
3650	GRADE & PL SOD 700 SY	1d	10MAR08	10MAR08
3660	REM TEMP BARRIER WALL	1d	10MAR08	10MAR08
3700	PH 3 (M&R 154TH)	4d *	11MAR08	14MAR08
3710	MILL & RESURFACE (CENTER	2d	11MAR08	12MAR08
3720	PH 3A (M&R 154TH)	4d *	13MAR08	18MAR08
3730	MILL & RESURFACE (L LN WB	2d	13MAR08	14MAR08
3740	PH 3B (M&R 154TH)	3d *	17MAR08	19MAR08
3750	MILL & RESURFACE (IN LN EB	2d	17MAR08	18MAR08
3790	PH 4 (M&R NW 77TH CT)	2d *	19MAR08	20MAR08
3800	MILL & RESURFACE (CENTER	1d	19MAR08	19MAR08
3810	PH 4B (M&R NW 77TH CT)	3d *	20MAR08	24MAR08
3820	MILL & RESURFACE (LT RD	1d	20MAR08	20MAR08
3870	PH 5A (M&R SR826 SB ON/NB	3d *	21MAR08	25MAR08
3880	M & R (ON RAMP LT SIDE/OFF	2d	21MAR08	24MAR08
3890	PH 5B (M&R SR826 SB	2d *	25MAR08	26MAR08
3900	M&R (ON RAMP/OFF RAMP LT	1d	25MAR08	25MAR08
3910	PH 5C (M&R SR826 SB OFF	2d *	26MAR08	27MAR08
3920	MILL & RESURFACE OFF	1d	26MAR08	26MAR08
3970	PH 6A (M&R SR826 NB ON	2d *	27MAR08	28MAR08
3980	MILL & RESURFACE	1d	27MAR08	27MAR08
3990	PH 6B (M&R SR826 NB ON	7d *	28MAR08	07APR08
4000	MILL & RESURFACE	1d	28MAR08	28MAR08
4050	PH 3C (M&R 154TH ST)	12d *	31MAR08	15APR08
4060	PL FRICTION COURSE	6d	31MAR08	07APR08



Act ID	Description	Orig Dur	Early Start	Early Finish
4070	PL PAV'MT MARKINGS	6d	08APR08	15APR08
4090	PH 4C (M&R NW 77TH CT)	2d *	08APR08	09APR08
4100	PL FRICTION COURSE	1d	08APR08	08APR08
4110	PL PAV'MT MARKINGS	1d	16APR08	16APR08
4120	SIGNAL LOOPS	1d	09APR08	09APR08
4200	PH 5D (FC ON SB ON &	3d *	09APR08	11APR08
4210	PL FRICTION COURSE 214	2d	09APR08	10APR08
4220	PL PAV'MT MARKINGS	2d	09APR08	10APR08
4230	SIGNAL LOOPS	1d	11APR08	11APR08
4300	PH 6C NB ON RAMP	2d *	11APR08	14APR08
4310	PL FRICTION COURSE 205	1d	11APR08	11APR08
4320	PL PAV'MT MARKINGS	1d	11APR08	11APR08
4330	SIGNAL LOOPS	1d	14APR08	14APR08
4340	2ND APP OF PAVEMENT	10d	28APR08	09MAY08
4350	GENERAL CLEAN UP	10d	15APR08	28APR08



DIST 5

05-Mar-06
Rev 3-29-06

CONTRACT TIME CALCULATION SHEET

Road: SR 368
FPID: 217976-3-52-01
Federal Aid Project No.: N/A
County: Bay County

Work Involved on Project				Rate/Day	Max	Number of Working Days: Time Priority	Number of Working Days: Normal
Clearing & Grubbing	1	AC	@	5	(20)		1
Earthwork	1634	CY		See Graph			7
Stabilization	1619	SY		6000	(10)		1
Base Construction	1346	SY		See Graph			1
Concrete Pavement	0	SY					
Milling Existing Pavement	23125	SY		8000	(5)		3
Plant Mix	3505	TN		See Graph			9
Storm Sewer, Conduit, etc...	906	LF	@	200			5
Curb & Gutter	1272	LF	@	600			3
Gravity Wall (Permanent)	185	LF	@	200			1
Sidewalk	876	SY		300			3
Grassing	2139	SY		3000	(5)		1
Guardrail	0	LF					
Final Striping (2 Applications)	5.000	MI		7			1
RPM's	0	EA					
Signalization	1	EA		15 day/EA			15
				Sub-Total Work Days			51

Sub-Total Work Days for Contract 51 WD x 1.4 Factor 71

(Factors)
1.48 = 5 day work week + holidays
1.40 = 5 day work week, No holidays
1.29 = 6 day work week + holidays
1.00 = 7 day work week, No holidays

Utility Operations 0

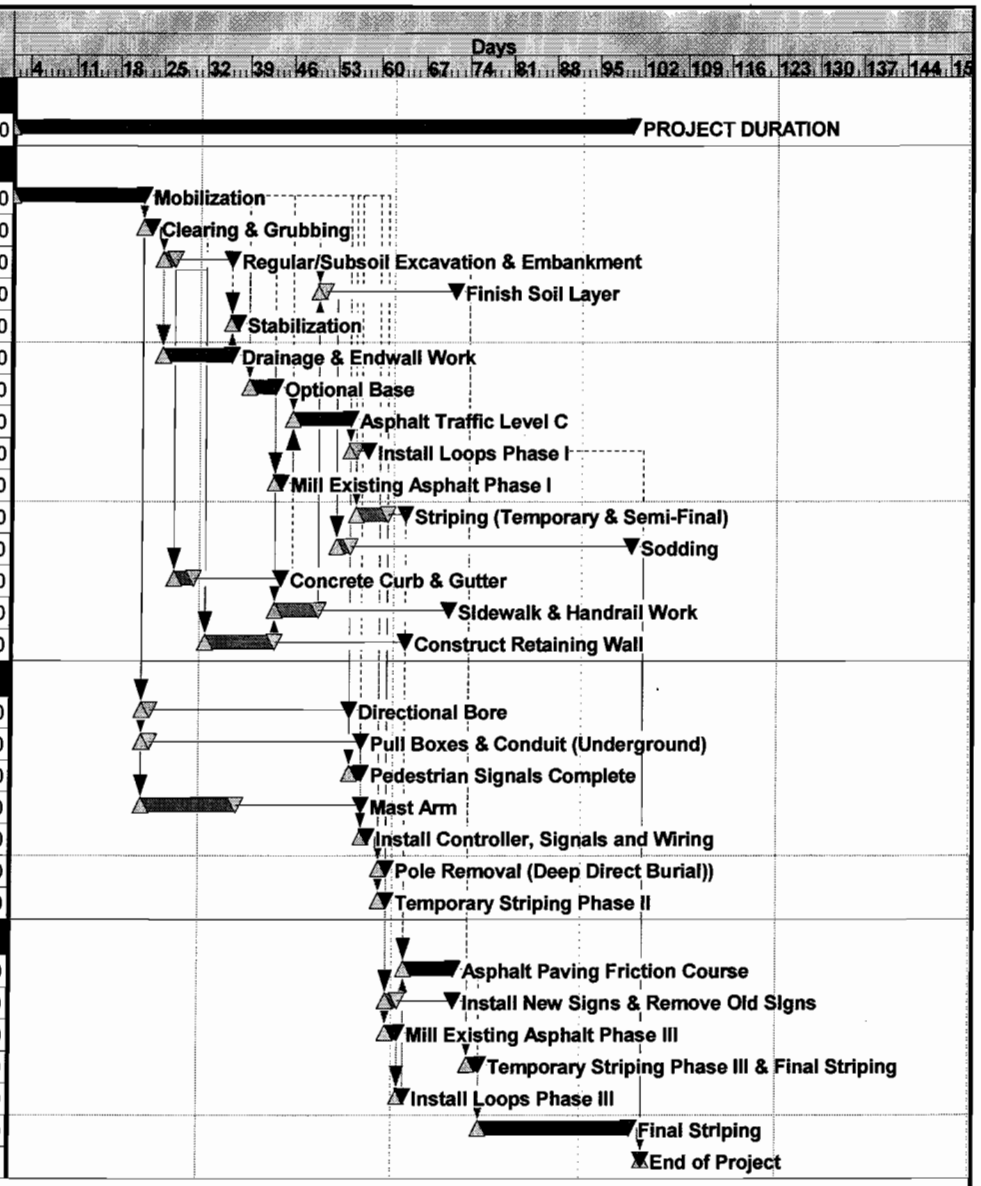
General Time (5 calander days plus 15 calender days Striping Cure) 20

Total Estimated CONTRACT TIME Calender Days 91 use 100

Special Acquisition Period allowed prior to charging of CONTRACT TIME (Lead Time) (MAST ARMS) 120

Calculated By: 8/4/06
Abel Sierra - FDOT District Five

Activity ID	Activity Description	Original duration	Early Start	Early finish	UNIT OF WORK
A PROJECT DURATION					
10	PROJECT DURATION	99*	01SEP06	08DEC06	0.00
1 PHASE I					
110	Mobilization	15	01SEP06	21SEP06	0.00
120	Clearing & Grubbing	1	22SEP06	22SEP06	0.00
130	Regular/Subsoil Excavation &	2	25SEP06	26SEP06	0.00
140	Finish Soil Layer	1	20OCT06	20OCT06	0.00
150	Stabilization	1	06OCT06	06OCT06	0.00
160	Drainage & Endwall Work	9	25SEP06	05OCT06	0.00
170	Optional Base	4	09OCT06	12OCT06	0.00
180	Asphalt Traffic Level C	7	16OCT06	24OCT06	0.00
190	Install Loops Phase I	1	25OCT06	25OCT06	0.00
200	Mill Existing Asphalt Phase I	1	13OCT06	13OCT06	0.00
210	Striping (Temporary & Semi-Final)	3	26OCT06	30OCT06	0.00
220	Sodding	2	23OCT06	24OCT06	0.00
260	Concrete Curb & Gutter	3	27SEP06	29SEP06	0.00
300	Sidewalk & Handrail Work	5	13OCT06	19OCT06	0.00
350	Construct Retaining Wall	9	02OCT06	12OCT06	0.00
2 PHASE II					
230	Directional Bore	1	22SEP06	22SEP06	0.00
240	Pull Boxes & Conduit	1	22SEP06	22SEP06	0.00
250	Pedestrian Signals Complete	2	25OCT06	26OCT06	0.00
270	Mast Arm	11	22SEP06	06OCT06	0.00
290	Install Controller, Signals and	1	27OCT06	27OCT06	0.00
310	Pole Removal (Deep Direct	1	30OCT06	30OCT06	0.00
360	Temporary Striping Phase II	1	30OCT06	30OCT06	0.00
3 PHASE III					
280	Asphalt Paving Friction Course	6	03NOV06	10NOV06	0.00
320	Install New Signs & Remove Old	2	31OCT06	01NOV06	0.00
330	Mill Existing Asphalt Phase III	2	31OCT06	01NOV06	0.00
340	Temporary Striping Phase III &	2	13NOV06	14NOV06	0.00
370	Install Loops Phase III	1	02NOV06	02NOV06	0.00
380	Final Striping	18	15NOV06	08DEC06	0.00
410	End of Project	0	11DEC06	08DEC06	0.00



110 Calendar Days
120 Days Flex Time

DRAFT

Start Date	01SEP06
Finish Date	08DEC06
Data Date	01SEP06
Run Date	07AUG06 15:44

Early Bar
Float Bar
Progress Bar
Critical Activity

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Sheet 1 of 1

DISTRICT 7

Financial Project ID: 217976-3-52-01
Project Description: SR 368
at Collegiate Drive
ESTIMATE OF CONTRACT TIME

Prepared by NAME

Date	Revision	Checked	Approved
02AUG06	CPAM 1.09 FACTOR	MAF	

Florida Department of Transportation
CONTRACT TIME WORKSHEET

DISTRICT 7

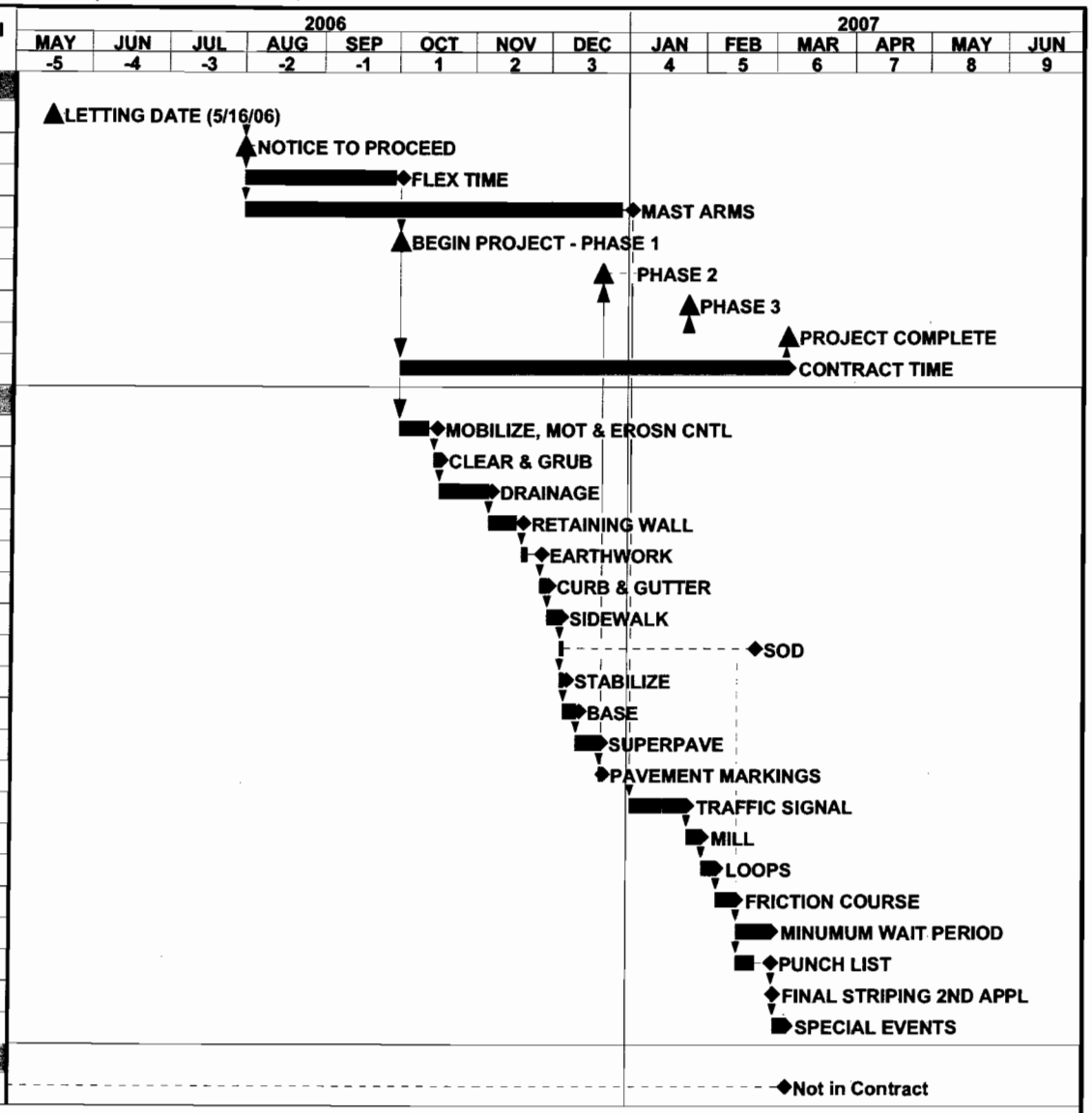
Prj. Nm. 21797635201- SR368 - Bay County - Contract Time Study Sch	FPID: 21797635201				BY:MAF, 07/20/06			
CONSTRUCTION ACTIVITIES	UNIT	QUANTITY	PRODUCT RATE PER DAY	PRODUCT RATE USED	DURATION DAYS	SECTION SUBTOTALS	PHASE BREAKDOWN	REMARKS
General Time	DA	1	15	NA	15			
Mobilization	LS	1	NA	NA	NA			
Maintenance of Traffic	LS	1	NA	NA	NA			
Commercial Material	CY	250	NA	NA	NA			
Traffic Control Officer	MH	40	NA	NA	NA			
Work Zone Signs	ED	2102	NA	NA	NA			
Business Signs	EA	3	NA	NA	NA			
Barricades(Temporary)(Type I,II,VP,Drum)	ED	3633	NA	NA	NA			
Barricades (Temporary) (Type III)	ED	33	NA	NA	NA			
Panels Arrow Adv. Warn	ED	46	NA	NA	NA			
High Intense Flashing Light	ED	571	NA	NA	NA			
Marker Pavement Reflective (Temporary)	EA	744	NA	NA	NA			
Light (Temp-Barr Wall Mnt)(Steady Burn)	ED	0	NA	NA	NA			
Impact Attenuator (Redirective Temp)	LO	0	NA	NA	NA			
Changeable/Variable Message Sign	ED	277	NA	NA	NA			
Temporary Traffic Detection (Intersect)	DA	0	NA	NA	NA			
Field Office	DA	0	1	1	NA			
Contingency	LS	0	1	1	NA			
						15		
EARTHWORK								
Excavation / Regular	CY	219	900	900	0			
Excavation / Embankment < 100,000	CY	0	900	900	0			
Excavation / Embankment One to 300,000	CY	0	3800	3800	0			
Excavation / Embankment > 300,000	CY	0	7500	7500	0			
Excavation / Embankment/Earthwork	CY	0	See Graph	NA	0			
Embankment	CY	1185	See Graph	NA	1	Phase1=1		
Subsoil Excavation	SY	0	12750	12750	0			
Subsoil Excavation	CY	230	360 to 720	360	1	Phase1=1		
Rework Shoulder	SY	0	1760	1760	0			
Shoulder Grading Resurface	MI	0	1	1	0			
Finish Soil Layer (6 Inch)	SY	2139	1500 to 5000	1500	1	Phase1=1		
						3		
ROADWAY								
Stabilization Roadbed	SY	0	1400 to 1800	1800	0			
Stabilization Type B	SY	1619	1400 to 1800	1400	1	Phase1 =1		
Removal Flexible Pavement	SY	0	650 to 950	650	0			
Optional Base Group (Group 01)	SY	0	See Graph	NA	0			
Optional Base Group (Group 06)	SY	1346	See Graph	NA	4	Phase1=4		
Optional Base Group (Group 07)	SY	0	See Graph	NA	0			
Optional Base Group (Group 08)	SY	0	See Graph	NA	0			
Optional Base Group (Group 09)	SY	0	See Graph	NA	0			
Optional Base Group (Group 12)	SY	0	See Graph	NA	0			
Optional Base Group (Group 13)	SY	0	See Graph	NA	0			
Optional Base Group (Group 15)	SY	0	See Graph	NA	0			
Optional Base Group B-12.5	SY	0	1150	1150	0			
Base Asphalt Treated Permeable	CY	0	See Graph	NA	0			
Turnout Construction	SY	174	800	800	0			
Milling Existing Asphalt Pavement (1" Avg Depth)	SY	23125	8000 Ave	8000	3	Phase1 =1, Phase3=2		Approximately 27% of asphalt milling work in Phase I
Milling Existing Asphalt Pavement (1 1/2)	SY	0	8000 Ave	8000	0			
Milling & Resurfacing	TN	0	750 to 1000	750	0			
Superpave Asphaltic Conc (Traffic B)	TN	0	See Graph	NA	0			
Superpave Asphaltic Conc (Traffic C)	TN	2158.9	See Graph	NA	7	Phase1=7		
Superpave Asphaltic Conc (Traffic D)	TN	0	See Graph	NA	0			
Asph Conc Fric Course(Inc Bit/Rubr)(FC-12.5)(FC-5)	TN	0	See Graph	NA	0			
Asph Conc Fric Course(Inc Bit/Rubr)(FC-12.5)(FC-6)	TN	0	See Graph	NA	0			
Asph Conc Fric Course(Inc Bit/Rubr)(FC-9.5)	TN	1345.9	See Graph	NA	6	Phase1=4, Phase3=2		
Plant Mix Surfaces	TN	0	See Graph	NA	0			
Asphalt (Structure)	Tons	0	400 to 1870	1135	0			
Plant Mix Surfaces	Tons	0	See Graph	NA	0			
Concrete Paving	SY	0	5000 Ave	600	0			
Concrete Class I (Miscellaneous)	CY	0	5 to10	5	0			
Concrete Class I (Endwalls)	CY	1.3	5 to10	5	0			
Concrete Class I (Retaining Wall)	CY	87.1	5 to10	10	9	Phase1=9		
Reinforcing Steel (Roadway)	LB	0	12000	12000	0			
Barrier Wall - Permanent	LF	0	200 to 400	300	0			

Florida Department of Transportation
CONTRACT TIME WORKSHEET

Barrier Wall Concrete (Rigid-Curb & Gutter)	LF	0	200 to 400	300	0			
Barrier Wall - Temporary (F&I)(Type K)	LF	0	3000	3000	0			
Barrier Wall - Temporary (Relocate)(Type K)	LF	0	3000	3000	0			
Concrete Pavement Removal	SY	142	600	600	0			
Conc Traffic Separator (Type I) (4' Wide)	LF	0	825 to 1050	825	0			
Conc Traffic Separator (Type I) (6' Wide)	LF	0	825 to 1050	825	0			
Conc Traffic Separator (Special) (Variable Width)	SY	0	90 to 115	115	0			
Curb & Gutter, Concrete (Type E)	LF	0	400 to 800	600	0			
Curb & Gutter, Concrete (Type F)	LF	1272	400 to 800	400	3	Phase1=3		
Curb & Gutter, Concrete (Type B)	LF	0	400 to 800	600	0			
Curb & Gutter, Concrete (Type D)	LF	0	400 to 800	600	0			
Curb & Gutter, Shoulder Gutter	LF	0	400 to 800	600	0			
Guardrail	LF	0	200 to 1500	500	0			
Guardrail Removal	LF	0	200 to 1500	500	0			

TPK - Dist. 8

ID	DESCRIPTION	AMOUNT	UNT	DUR	TF	Cal ID
MILESTONES						
10	LETTING DATE (5/16/06)	0		0	0	2
20	NOTICE TO PROCEED	0		0	3	2
30	FLEX TIME	60	CD	60	3	2
40	MAST ARMS	150	CD	150	5	2
100	BEGIN PROJECT - PHASE 1	0		0	1	1
200	PHASE 2	0		0	1	1
300	PHASE 3	0		0	0	1
999	PROJECT COMPLETE	0		0	0	1
9999	CONTRACT TIME	155	CD	155*	0	2
ROAD WORK						
110	MOBILIZE, MOT & EROSN CNTL	1	LS	10	1	1
120	CLEAR & GRUB	2	AC	2	1	1
130	DRAINAGE	1,391	LF	14	1	1
135	RETAINING WALL	88	CY	9	1	1
140	EARTHWORK	1,634	CY	2	1	1
145	CURB & GUTTER	1,272	LF	3	1	1
150	SIDEWALK	876	SY	3	1	1
155	SOD	2,139	SY	2	46	1
165	STABILIZE	1,619	SY	2	1	1
170	BASE	1,520	SY	3	1	1
180	SUPERPAVE	2,159	TON	7	1	1
190	PAVEMENT MARKINGS	1	LS	1	1	1
210	TRAFFIC SIGNAL	1	LS	15	0	1
310	MILL	23,125	SY	4	0	1
320	LOOPS	19	EA	4	0	1
330	FRICTION COURSE	1,346	TON	6	0	1
340	MINUMUM WAIT PERIOD	1	LS	14	0	2
350	PUNCH LIST	1	LS	5	5	1
360	FINAL STRIPING 2ND APPL	1	LS	1	0	1
370	SPECIAL EVENTS	5	CD	5	0	2
UTILITIES						
1000	Not in Contract	0	CD	0	309	2



Start Date	01MAY06
Finish Date	05MAR07
Data Date	01MAY06
Run Date	17JUL06 14:00

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Early Bar
Float Bar
Progress Bar
Critical Activity

TIME

Sheet 1 of 1

SR 368 - BAY COUNTY
FPN: 217976-3-52-01

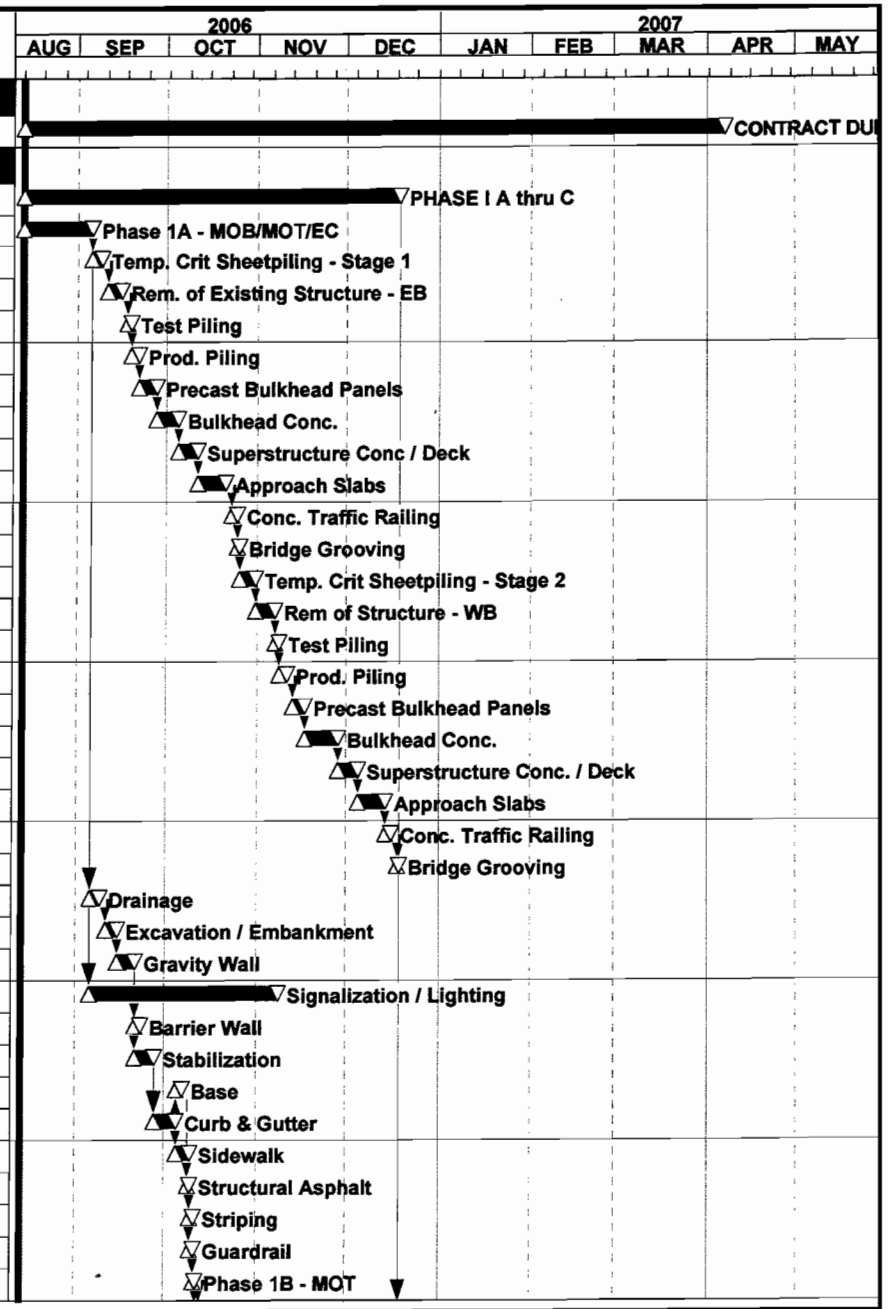
PB 100 YEARS

FDOT - TURNPIKE ENTERPRISE

Date	Revision	Checked	Approved

DIST 1

Activity ID	Activity Description	Original Duration	Early Start	Early finish	PLAN QUANTITY	PRODUCTION RATE
CONTRACT DURATION						
10	CONTRACT DURATION	236*	14AUG06	06APR07	0.00	0.00
PHASE I						
100	PHASE I A thru C	127*	14AUG06	18DEC06	0.00	0.00
105	Phase 1A - MOB/MOT/EC	15	14AUG06	05SEP06	0.00	0.00
108	Temp. Crit Sheetpiling - Stage 1	3	06SEP06	08SEP06	1,830.00	610.00
110	Rem. of Existing Structure - EB	5	11SEP06	15SEP06	0.00	0.00
112	Test Piling	1	18SEP06	18SEP06	0.00	0.00
114	Prod. Piling	3	19SEP06	21SEP06	515.10	171.70
116	Precast Bulkhead Panels	4	22SEP06	27SEP06	1,408.00	352.00
118	Bulkhead Conc.	5	28SEP06	04OCT06	22.20	4.44
120	Superstructure Conc / Deck	5	05OCT06	11OCT06	27.60	5.52
122	Approach Slabs	7	12OCT06	20OCT06	34.30	4.90
124	Conc. Traffic Railing	2	23OCT06	24OCT06	0.00	0.00
126	Bridge Grooving	1	25OCT06	25OCT06	0.00	0.00
130	Temp. Crit Sheetpiling - Stage 2	3	26OCT06	30OCT06	1,830.00	610.00
132	Rem of Structure - WB	5	31OCT06	06NOV06	0.00	0.00
134	Test Piling	1	07NOV06	07NOV06	0.00	0.00
136	Prod. Piling	3	08NOV06	10NOV06	621.90	207.30
138	Precast Bulkhead Panels	4	13NOV06	16NOV06	1,441.20	360.30
140	Bulkhead Conc.	5	17NOV06	27NOV06	21.80	4.36
142	Superstructure Conc. / Deck	5	28NOV06	04DEC06	26.80	5.36
144	Approach Slabs	7	05DEC06	13DEC06	33.60	4.80
146	Conc. Traffic Railing	2	14DEC06	15DEC06	0.00	0.00
148	Bridge Grooving	1	18DEC06	18DEC06	0.00	0.00
150	Drainage	3	06SEP06	08SEP06	222.90	74.30
151	Excavation / Embankment	4	11SEP06	14SEP06	1,822.40	455.60
152	Gravity Wall	4	15SEP06	20SEP06	0.00	0.00
153	Signalization / Lighting	45	06SEP06	07NOV06	0.00	0.00
154	Barrier Wall	2	21SEP06	22SEP06	146.00	73.00
155	Stabilization	5	21SEP06	27SEP06	1,754.50	350.90
156	Base	2	05OCT06	06OCT06	1,625.60	812.80
158	Curb & Gutter	5	28SEP06	04OCT06	2,043.00	408.60
159	Sidewalk	3	05OCT06	09OCT06	1,062.00	354.00
160	Structural Asphalt	1	09OCT06	09OCT06	225.00	225.00
161	Striping	1	10OCT06	10OCT06	0.00	0.00
162	Guardrail	1	10OCT06	10OCT06	936.00	936.00
170	Phase 1B - MOT	1	11OCT06	11OCT06	0.00	0.00



Start Date	14AUG06
Finish Date	06APR07
Data Date	14AUG06
Run Date	02AUG06 13:16

Early Bar
Progress Bar
Critical Activity

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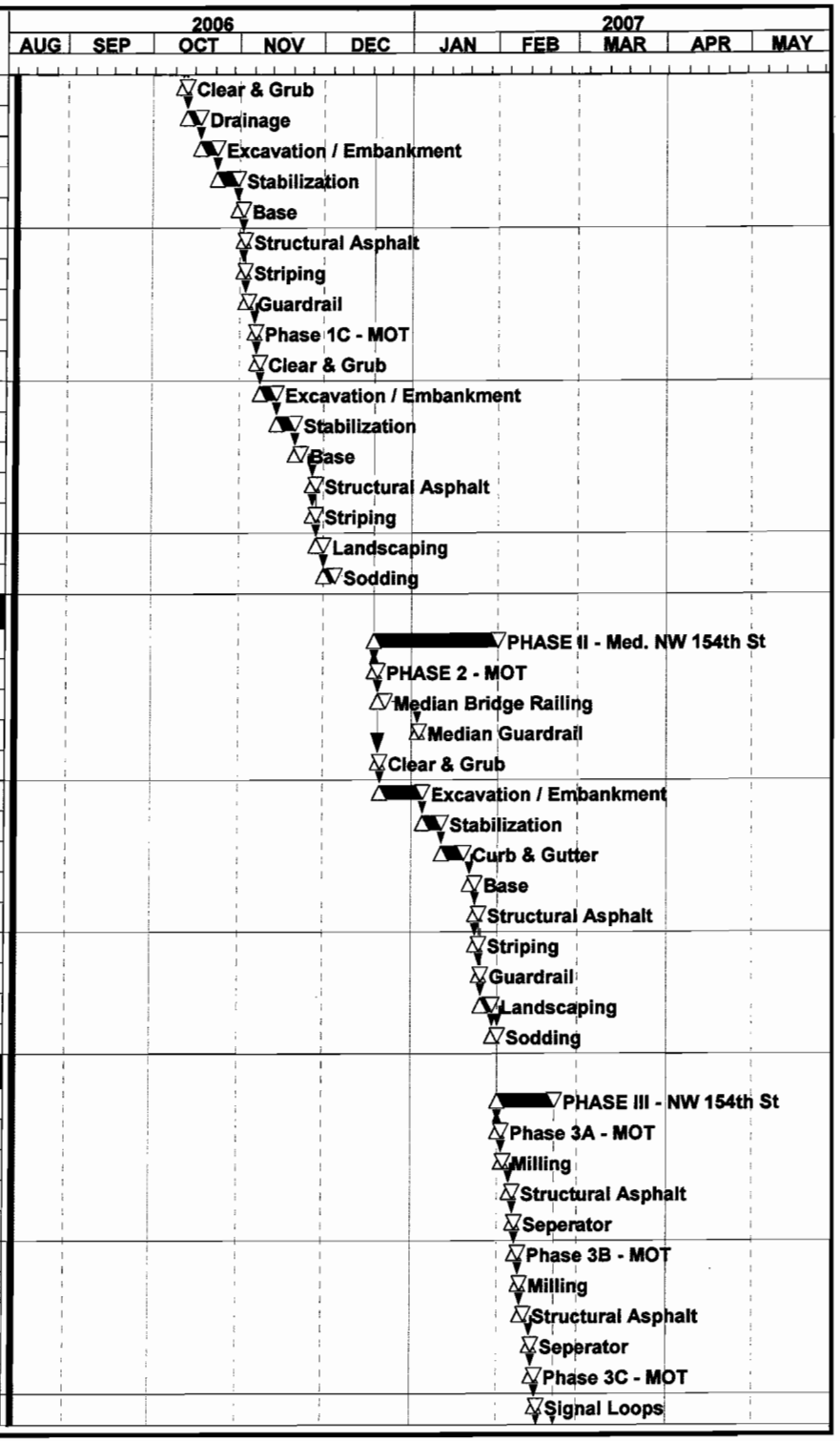
Financial Project ID:417764-1-52-01
ESTIMATE OF CONTRACT TIME
S/W Contract Time Exercise
County/Section No: Miami-Dade / 87260

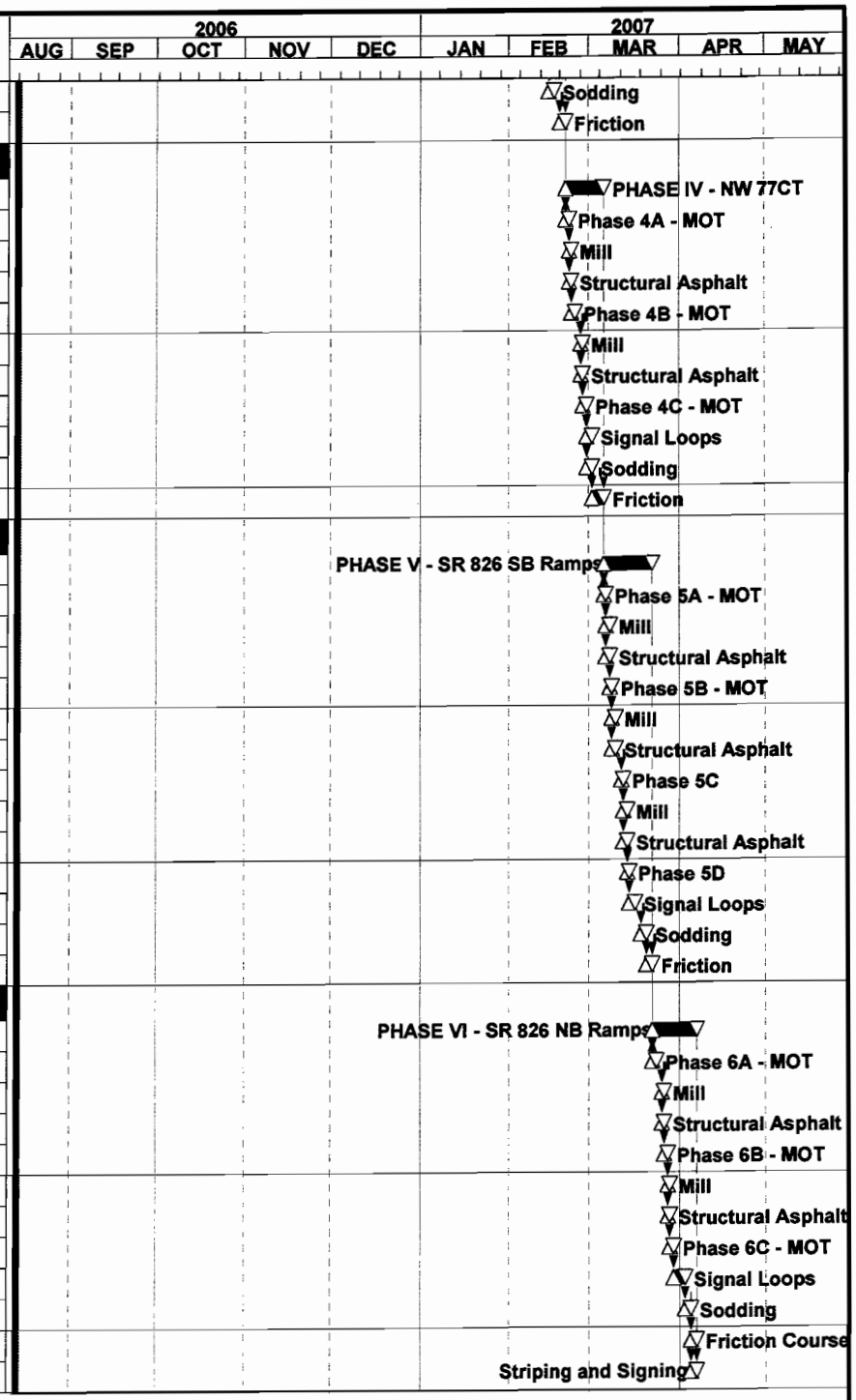
Prepared by L. Zagardo, Jacobs Inc. 863-519-2344

Date	Revision	Checked	Approved
	State Wide Contract Time Exercise		

Activity ID	Activity Description	Original Duration	Early Start	Early finish	PLAN QUANTITY	PRODUCTION RATE
172	Clear & Grub	1	12OCT06	12OCT06	0.00	0.00
173	Drainage	3	13OCT06	17OCT06	222.90	74.30
174	Excavation / Embankment	4	18OCT06	23OCT06	1,822.40	455.60
176	Stabilization	5	24OCT06	30OCT06	1,754.50	350.90
178	Base	2	31OCT06	01NOV06	1,625.60	812.80
180	Structural Asphalt	1	02NOV06	02NOV06	225.00	225.00
181	Striping	1	02NOV06	02NOV06	0.00	0.00
182	Guardrail	1	03NOV06	03NOV06	936.00	936.00
185	Phase 1C - MOT	1	06NOV06	06NOV06	0.00	0.00
186	Clear & Grub	1	07NOV06	07NOV06	0.00	0.00
187	Excavation / Embankment	4	08NOV06	13NOV06	1,822.40	455.60
188	Stabilization	5	14NOV06	20NOV06	1,754.50	350.90
190	Base	2	21NOV06	22NOV06	1,625.60	812.80
191	Structural Asphalt	1	27NOV06	27NOV06	225.00	225.00
192	Striping	1	27NOV06	27NOV06	0.00	0.00
193	Landscaping	3	28NOV06	30NOV06	0.00	0.00
194	Sodding	2	01DEC06	04DEC06	2,274.00	1,137.00
PHASE II						
200	PHASE II - Med. NW 154th St	44*	19DEC06	31JAN07	0.00	0.00
205	PHASE 2 - MOT	1	19DEC06	19DEC06	0.00	0.00
208	Median Bridge Railing	3	20DEC06	22DEC06	0.00	0.00
210	Median Guardrail	1	03JAN07	03JAN07	0.00	0.00
215	Clear & Grub	1	20DEC06	20DEC06	0.00	0.00
220	Excavation / Embankment	4	21DEC06	04JAN07	1,822.40	455.60
225	Stabilization	5	05JAN07	11JAN07	1,754.50	350.90
230	Curb & Gutter	5	12JAN07	19JAN07	2,043.00	408.60
235	Base	2	22JAN07	23JAN07	1,625.60	812.80
240	Structural Asphalt	1	24JAN07	24JAN07	225.00	225.00
245	Striping	1	24JAN07	24JAN07	0.00	0.00
246	Guardrail	1	25JAN07	25JAN07	936.00	936.00
250	Landscaping	2	26JAN07	29JAN07	0.00	0.00
255	Sodding	2	30JAN07	31JAN07	2,274.00	1,137.00
PHASE III						
300	PHASE III - NW 154th St	20*	01FEB07	20FEB07	0.00	0.00
305	Phase 3A - MOT	1	01FEB07	01FEB07	0.00	0.00
310	Milling	1	02FEB07	02FEB07	0.00	0.00
315	Structural Asphalt	1	05FEB07	05FEB07	225.00	225.00
320	Seperator	1	06FEB07	06FEB07	85.00	85.00
340	Phase 3B - MOT	1	07FEB07	07FEB07	0.00	0.00
345	Milling	1	08FEB07	08FEB07	0.00	0.00
350	Structural Asphalt	1	09FEB07	09FEB07	225.00	225.00
355	Seperator	1	12FEB07	12FEB07	85.00	85.00
365	Phase 3C - MOT	1	13FEB07	13FEB07	0.00	0.00
385	Signal Loops	1	14FEB07	14FEB07	0.00	0.00



Activity ID	Activity Description	Original Duration	Early Start	Early finish	PLAN QUANTITY	PRODUCTION RATE
390	Sodding	2	15FEB07	16FEB07	2,274.00	1,137.00
395	Friction	2	19FEB07	20FEB07	435.00	217.50
PHASE IV						
400	PHASE IV - NW 77CT	13*	21FEB07	05MAR07	0.00	0.00
405	Phase 4A - MOT	1	21FEB07	21FEB07	0.00	0.00
410	Mill	1	22FEB07	22FEB07	0.00	0.00
415	Structural Asphalt	1	22FEB07	22FEB07	225.00	225.00
420	Phase 4B - MOT	1	23FEB07	23FEB07	0.00	0.00
425	Mill	1	26FEB07	26FEB07	0.00	0.00
430	Structural Asphalt	1	26FEB07	26FEB07	225.00	225.00
435	Phase 4C - MOT	1	27FEB07	27FEB07	0.00	0.00
440	Signal Loops	2	28FEB07	01MAR07	0.00	0.00
445	Sodding	2	28FEB07	01MAR07	2,274.00	1,137.00
450	Friction	2	02MAR07	05MAR07	435.00	217.50
PHASE V						
500	PHASE V - SR 826 SB Ramps	17*	06MAR07	22MAR07	0.00	0.00
505	Phase 5A - MOT	1	06MAR07	06MAR07	0.00	0.00
510	Mill	1	07MAR07	07MAR07	0.00	0.00
515	Structural Asphalt	1	07MAR07	07MAR07	225.00	225.00
525	Phase 5B - MOT	1	08MAR07	08MAR07	0.00	0.00
530	Mill	1	09MAR07	09MAR07	0.00	0.00
535	Structural Asphalt	1	09MAR07	09MAR07	225.00	225.00
540	Phase 5C	1	12MAR07	12MAR07	0.00	0.00
545	Mill	1	13MAR07	13MAR07	0.00	0.00
550	Structural Asphalt	1	13MAR07	13MAR07	225.00	225.00
555	Phase 5D	1	14MAR07	14MAR07	0.00	0.00
568	Signal Loops	2	15MAR07	16MAR07	0.00	0.00
570	Sodding	2	19MAR07	20MAR07	2,274.00	1,137.00
575	Friction	2	21MAR07	22MAR07	435.00	217.50
PHASE VI						
600	PHASE VI - SR 826 NB Ramps	15*	23MAR07	06APR07	0.00	0.00
610	Phase 6A - MOT	1	23MAR07	23MAR07	0.00	0.00
615	Mill	1	26MAR07	26MAR07	0.00	0.00
620	Structural Asphalt	1	26MAR07	26MAR07	225.00	225.00
630	Phase 6B - MOT	1	27MAR07	27MAR07	0.00	0.00
635	Mill	1	28MAR07	28MAR07	0.00	0.00
640	Structural Asphalt	1	28MAR07	28MAR07	225.00	225.00
645	Phase 6C - MOT	1	29MAR07	29MAR07	0.00	0.00
660	Signal Loops	2	30MAR07	02APR07	0.00	0.00
662	Sodding	2	03APR07	04APR07	2,274.00	1,137.00
665	Friction Course	2	05APR07	06APR07	435.00	217.50
668	Striping and Signing	2	05APR07	06APR07	0.00	0.00



DIST 1

Statewide Scheduling Engineers Exercise **August 8, 2006**

Contract Time Development for **417764-1-52-01**

Assumptions made:

1.) Contract time was developed based on following the MOT phasing per the TCP.

2.) A new phase of construction could only start after a previous phase was totally complete (No concurrency in phasing). However, in Phase 1, allowed bridge and roadway to be occur concurrently.

3.) For roadway work items shown to be completed in multiple phases, a quantity for that item for each phase was determined by taking the total quantity for the item and dividing (evenly) by the total number of phases for which work occurs in a phase.
i.e. The plans call out for Structural Asphalt to be applied in the following phases: 1A, 1B, 1C, 2, 3A, 3B, 4A, 4B, 5A, 5B, 5C, 6A and 6 B (13 phases). The total quantity of Structural Asphalt on the project is 2901.2 tons and this number was divided by the 13 phases to yield an approximate quantity of 225 tons per phase.

4.) For the milling and resurfacing operations, assumed the same day pave back for any milled areas. This assumption will also comply with Index 600 (Sheet 7 of 10 – Adjacent lane differential on Milling and Resurfacing Ops). With this in mind, did not consider the milling quantity and let the asphalt drive the operation.

5.) The TCP states lane closures allowed only during the hours of 9pm-5:30pm. Considering MOT setups and takedowns, this only allows for a 7-1/2 hr work production window at best, therefore, assumed on the low side for production rates for night time operations.

6.) Essentially assumed Finish-to-start relationships for the key work activities.

7.) Allowed 1 work day for each new MOT phase.

8.) Combined some work items as 1 activity. i.e. Added the various "Base" pay items as one total quantity (applied note 3 above). Some other items combined:
1) Reg Ex and Embankment 2) Both Pipe items (ss) and the French drain
3) E&F curb and gutter 4) Sodding items

9.) Although the stabilization quantity is low (1754 sys) for each of the 3 phases that this work occurs, 5 days were assumed for each phase to complete this item due to the turn around time on LBR results.

10.) Utilities not factored into the project.

FPID NUMBER:

414764-1

ROADWORK AND BRIDGE REPLACEMENT

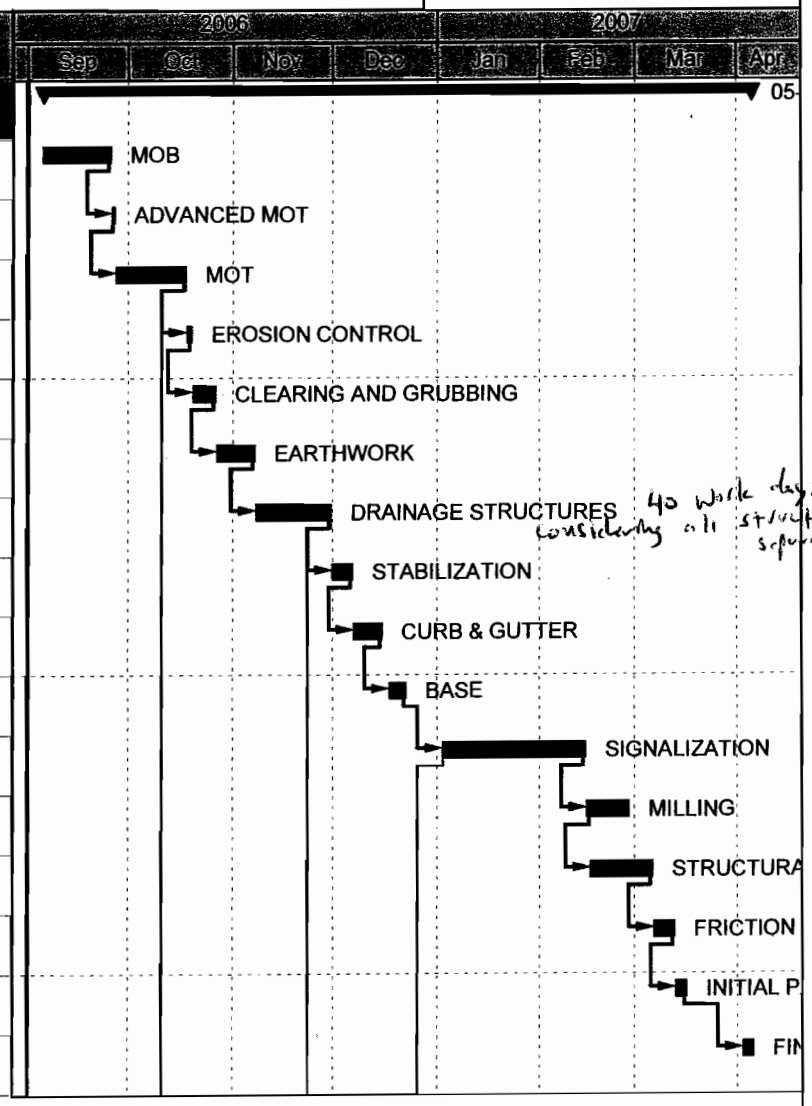
HOLMES COUNTY

DIST 3 S.M. 315

DATA DATE: 01-Sep-06

RUN DATE: 03-Aug-06 15:53

Activity ID	Activity Name	Original Duration	Start	Finish
ROADWORK AND BRIDGE REPLACEMENT		213	05-Sep-06	05-Apr-07
A1000	MOB	15	05-Sep-06	25-Sep-06
A1010	ADVANCED MOT	1	26-Sep-06	26-Sep-06
A1020	MOT	15	27-Sep-06	17-Oct-06
A1030	EROSION CONTROL	2	18-Oct-06	19-Oct-06
A1040	CLEARING AND GRUBBING	5	20-Oct-06	26-Oct-06
A1050	EARTHWORK	8	27-Oct-06	07-Nov-06
A1060	DRAINAGE STRUCTURES	S.M. 57 ~~14~~	08-Nov-06	30-Nov-06
A1070	STABILIZATION	4	01-Dec-06	06-Dec-06
A1080	CURB & GUTTER	7	07-Dec-06	15-Dec-06
A1090	BASE	5	18-Dec-06	22-Dec-06
A1095	SIGNALIZATION	30	03-Jan-07	14-Feb-07
A1100	MILLING	9	15-Feb-07	27-Feb-07
A1110	STRUCTURAL COURSE	13	16-Feb-07	06-Mar-07
A1120	FRICTION COURSE	4	07-Mar-07	12-Mar-07
A1130	INITIAL PAVEMENT MARKINGS	4	13-Mar-07	16-Mar-07
A1140	FINAL PAVEMENT MARKINGS	4	02-Apr-07	05-Apr-07



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

TYPICAL FDOT HOLIDAYS INCLUDED

UTILITY TIME NOT INCLUDED

NIGHT WORK CONSIDERED

SCHEDULER CONTACT INFORMATION:

1901 COMMON WEALTH LANE

TALLAHASSEE, FLORIDA 32303

850-575-1800

PBSJ

SCHEDULER: ANW

FPID NUMBER:

414764-1

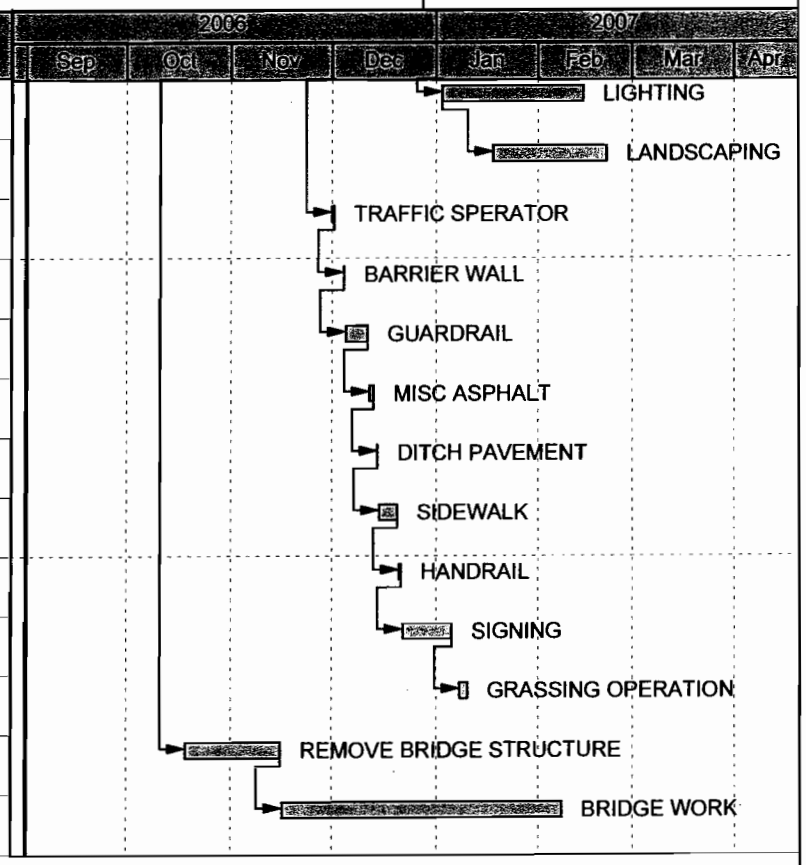
ROADWORK AND BRIDGE REPLACEMENT

HOLMES COUNTY

DATA DATE: 01-Sep-06

RUN DATE: 03-Aug-06 15:53

Activity ID	Activity Name	Original Duration	Start	Finish
A1145	LIGHTING	30	03-Jan-07	14-Feb-07
A1146	LANDSCAPING	25	18-Jan-07	21-Feb-07
A1150	TRAFFIC SPERATOR	1	01-Dec-06	01-Dec-06
A1160	BARRIER WALL	1	04-Dec-06	04-Dec-06
A1170	GUARDRAIL	5	05-Dec-06	11-Dec-06
A1180	MISC ASPHALT	2	12-Dec-06	13-Dec-06
A1190	DITCH PAVEMENT	1	14-Dec-06	14-Dec-06
A1200	SIDEWALK	4	15-Dec-06	20-Dec-06
A1210	HANDRAIL	1	21-Dec-06	21-Dec-06
A1215	SIGNING	4	22-Dec-06	05-Jan-07
A1216	GRASSING OPERATION	3	08-Jan-07	10-Jan-07
A1270	REMOVE BRIDGE STRUCTURE	20	18-Oct-06	15-Nov-06
A1280	BRIDGE WORK	50	16-Nov-06	07-Feb-07



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

TYPICAL FDOT HOLIDAYS INCLUDED

UTILITY TIME NOT INCLUDED

NIGHT WORK CONSIDERED

PAGE 2 OF 2

SCHEDULER CONTACT INFORMATION:

1901 COMMON WEALTH LANE

TALLAHASSEE, FLORIDA 32303

850-575-1800

PBSJ

SCHEDULER: ANW

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
GENERAL ITEMS										
CONSTRUCTION DURATION							**CALENDAR DAYS**			
MOBILIZATION	LS					1	10			10 DAY TYPICAL
ADVANCED MOT SET-UP	LS					1	1			1 DAY TYPICAL
CONSTRUCTION										
MOT	LS						18			SEE BELOW
WORK ZONE SIGNS	EA	17.30				17	1	30	EA / DAY	
TEMPORARY CURB	LF					0	0	900	LF / DAY	
BARRICADES	EA	42.66				43	0	500	EA / DAY	
TEMPORARY RPM'S	EA	262				262	1	500	EA / DAY	
TEMPORARY STRIPING	MI					0	0	4	MI / DAY	
ADVANCED WARNING PANELS	EA	0.36				0	0	15	EA / DAY	
VARIABLE MESSAGE SIGNS	EA	0.07				0	0	10	EA / DAY	
TEMP BARRIER WALLS	LF	6066				6066	13	450	LF / DAY	
TEMPORARY IMPACT ATTENUATORS	EA	14				14	1	20	EA / DAY	
REMOVEABLE PAVEMENT MARKINGS	LF					0	0	15600	LF / DAY	
DURATION TOTALS BY PHASE	DY	18	0	0	0					
EROSION CONTROL	LS						2			SEE BELOW
HAYBALES	EA					0	0	600	EA / DAY	
TURBIDITY BARRIER	LF					0	0	600	LF / DAY	
SILT FENCE	LF	4300				4300	1	4000	LF / DAY	
SOIL TRACKING DEVICE	EA					0	0	5	EA / DAY	
ROCK BAGS / SAND BAGS	EA	220				220	1	400	EA / DAY	
FLOATING TURBIDITY BARRIER	LF	324				324	1	500	LF / DAY	
DURATION TOTALS BY PHASE	DY	2	0	0	0					
CLEARING AND GRUBBING	AC						8			SMALL QUANTITY
CLEAR AND GRUB	AC					0	8	7	AC / DAY	USE 8 DAYS
REMOVE EXISTING CONCRETE PAVEMENT	SY					0	0	600	SY / DAY	
MAILBOXES	EA					0	0	25	EA / DAY	
DURATION TOTALS BY PHASE	DY	0	0	0	0					
EARTHWORK	LS						8			SEE BELOW
EARTHWORK	CY					0	0	1000	CY / DAY	PER FDOT CHART
EXCAVATION, BORROW	CY					0	0	1200	CY / DAY	PER FDOT CHART
EXCAVATION, REGULAR	CY	4619				4619	4	1050	CY / DAY	PER FDOT CHART
EXCAVATION, SUBSOIL	CY	306				306	0	1000	CY / DAY	PER FDOT CHART
EMBANKMENT	CY	2364				2364	3	800	CY / DAY	PER FDOT CHART
DURATION TOTALS BY PHASE	DY	8	0	0	0					
DRAINAGE STRUCTURES	LS						14			SEE BELOW
JACK AND BORE	LF					0	0	20	LF/DAY	24" DIAMETER
CONCRETE BOX CULVERTS	CY					0	0	50	CY / DAY	20-50
PRECAST BOX CULVERTS	LF					0	0	100	LF / DAY	50-150
CONCRETE ENDWALLS	CY	9.2				9	1	15	CY / DAY	
WINGWALLS	SF					0	0	150	SF / DAY	100-200
INLETS	EA	14				14	2	6	EA / DAY	
MANHOLES	EA	13				13	3	4	EA / DAY	
PARTIAL MANHOLE	EA					0	0	6	EA / DAY	
ADJUST MANHOLE	EA					0	0	6	EA / DAY	
VALVE BOX , ADJUST	EA					0	0	6	EA / DAY	
MISC. CONCRETE	CY	92.6				93	6	15	CY / DAY	
MES	EA					0	0	6	EA / DAY	
JUNCTION BOX	EA					0	0	6	EA / DAY	
FRENCH DRAINS	LF	216				216	1	400	LF / DAY	
PIPE	LF	339				339	1	400	LF / DAY	
DURATION TOTALS BY PHASE	DY	14	0	0	0					
ROADWORK	LS						51			SEE BELOW
TEMPORARY PAVEMENT	SY					0	0	50	SY / DAY	SMALL QUANTITY
STABILIZATION	SY	7015				7015	4	1800	SY / DAY	1400-1800
CONCRETE CURB & GUTTER	LF	4086.1				4086	7	600	LF / DAY	- 200 LF/day 400-600
TRAFFIC SEPERATOR	LF	170				170	1	500	LF / DAY	USE 1 DAY
CONCRETE BARRIER WALL	LF	146				146	1	400	LF / DAY	USE 1 DAY
BASE	SY	6502.3				6502	5	~~1000~~	SY / DAY	200 SY/day PER FDOT CHART
MILLING	SY	24873.9				24874	9	3000	SY / DAY	USE 9 DAYS DUE TO PHASING
SUPERPAVE ASPH CONC (STRUCTURAL)	TN	2901.2				2901	13	500	TN / DAY	USE 13 DAYS DUE TO PHASING
FRICTION COURSE	TN	1740.1				1740	4	500	TN / DAY	USE 4 DAYS DUE TO PHASING
CONCRETE PAVING	SY					0	0	5000	SY / DAY	
TURNOUT CONSTRUCTION	SY					0	0	200	SY / DAY	
MISC ASPHALT PAVEMENT	TN	145.3				145	2	60	TN / DAY	
DITCH PAVEMENT	SY	86				86	1	200	SY / DAY	USE 1 DAY
RIPRAP	TN					0	0	50	TN / DAY	
SIDEWALK CONCRETE	SY	1064				1064	4	300	SY / DAY	
TEXTURED PAVEMENT	SY					0	0	150	SY / DAY	
DURATION TOTALS BY PHASE	DY	35	0	0	0					

STATE ROAD NO 826
MIAMI-DADE COUNTY

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
GUARDRAIL	LS						6			SEE BELOW
REMOVE EXISTING	LF	2240.8				2241	1	2000	LF / DAY	
FURNISH AND INSTALL	LF	2607.5				2608	2	1500	LF / DAY	200-1500
END ANCHORS	EA	16				16	2	8	EA / DAY	
DURATION TOTALS BY PHASE	DY	6	0	0	0					
RAILING	LS						1			USE 1 DAY
HANDRAIL & BICYCLE RAILING	LF	61				61	0	400	LF / DAY	
DURATION TOTALS BY PHASE	DY	0	0	0	0					
PAVEMENT MARKINGS	LS						6			SEE BELOW
REMOVE EXISTING THERMO	SY					0	0	350	SY / DAY	
MESSAGES	EA	36				36	1	30	EA / DAY	
TRAFFIC STRIPE	MI	12.634				13	2	7	MI / DAY	
MISC. STRIPE	LF	13580				13580	5	3000	LF / DAY	
RPM'S	EA					0	0	750	EA / DAY	500-1000
ISLAND NOSE PAINT	SY					0	0	55	SY / DAY	
DURATION TOTALS BY PHASE	DY	6	0	0	0					
SIGNALIZATION	LS						30			SEE BELOW
PER INTERSECTION	PI	6				6	0	15	PI / DAY	
UNDERGROUND CONDUITS	LF	5450				5450	7	750	LF / DAY	
PULL AND JUNCTION BOXES	EA	42				42	5	8	EA / DAY	
ELECTRICAL POWER SERVICE	AS	2				2	1	3	AS / DAY	
SIGNAL HEADS	EA	17				17	2	10	EA / DAY	
POLES	EA	3				3	0	10	EA / DAY	
REMOVE EXISTING SPAN WIRES	EA					0	0	20	EA / DAY	
REMOVE EXISTING SIGNAL EQUIPMENT	EA					0	0	8	EA / DAY	
MAST ARMS, SINGLE	EA	7				7	2	4	EA / DAY	
MAST ARMS, DOUBLE	EA					0	0	3	EA / DAY	
TRAFFIC SIGNALS	AS	23				23	3	8	AS / DAY	
PEDESTRIAN SIGNALS	AS	6				6	1	10	AS / DAY	
CUT LOOP DETECTORS	AS	10				10	2	6	AS / DAY	
LOOP ASSEMBLIES	AS	16				16	3	6	AS / DAY	
PEDESTRIAN DETECTORS	EA	2				2	0	8	EA / DAY	
SIGN PANELS	EA	28				28	5	6	EA / DAY	
MISC. CONCRETE	CY	5				5	0	15	CY / DAY	
DURATION TOTALS BY PHASE	DY	30	0	0	0					
LIGHTING	LS						30			USE 30 DAYS
CONDUCTORS	LF	9840				9840	13	750	LF/DAY	
MISC. CONCRETE	CY	7				7	0	15	CY / DAY	
UNDERGROUND CONDUITS	LF	3508				3508	5	750	LF / DAY	
PULL AND JUNCTION BOXES	EA	27				27	3	8	EA / DAY	
POLES	EA	65				65	7	10	EA / DAY	
DURATION TOTALS BY PHASE	DY	28	0	0	0					
SIGNING	LS						4			SEE BELOW
SINGLE POST SIGN	AS	31				31	2	15	AS / DAY	
SINGLE POST SIGN REMOVAL	AS	28				28	1	30	AS / DAY	
SINGLE POST SIGN RELOCATE	AS	2				2	0	10	AS / DAY	
MULTIPOST REMOVAL	AS					0	0	15	AS / DAY	
MULTIPOST F&I	AS					0	0	10	AS / DAY	
OBJECT MARKERS	EA	3				3	0	10	EA / DAY	
SIGN PANELS	EA	4				4	0	15	EA / DAY	
RELOCATE SIGN PANELS	EA	1				1	0	10	EA / DAY	
REMOVE SIGN PANELS	EA					0	0	12	EA / DAY	
DELINEATORS	EA					0	0	10	EA / DAY	
DIRECTIONAL BORE	LF					0	0	600	LF/DAY	LESS THAN 12"
DURATION TOTALS BY PHASE	DY	4	0	0	0					
LANDSCAPING (TREES AND SHRUBS)	LS						25			USE 25 DAYS
SEEDLINGS	EA					0	0	800	EA / DAY	
1 GAL	EA					0	0	400	EA / DAY	
3 GAL	EA	3313				3313	17	200	EA / DAY	
7 GAL	EA	222				222	2	100	EA / DAY	
LARGER	EA	166				166	6	30	EA / DAY	
DIRECTIONAL BORE	LF					0	0	600	LF/DAY	LESS THAN 12"
DURATION TOTALS BY PHASE	DY	24	0	0	0					
GRASSING OPERATION	LS						3			SEE BELOW
FINISH SOIL LAYER	SY	325				325	0	15000	SY / DAY	
SEED AND MULCH	SY					0	0	23500	SY / DAY	
SODDING	SY	13719				13719	3	5000	SY / DAY	1500-5000
DURATION TOTALS BY PHASE	DY	3	0	0	0					

DESCRIPTION	UNIT	P1	P2	P3	P4	QUANTITY	DAYS	RATE		PRODUCTION NOTES
BRIDGE CONSTRUCTION							50	CALENDAR DAYS		
REMOVE EXISTING STRUCTURE							0			SEE BELOW
DECK AND HANDRAIL	SY					0	0	35	SY / DAY	30-40
PARAPET	LF					0	0	115	LF / DAY	50-150
TIMBER BRIDGE	SY					0	0	50	SY / DAY	40-60
DURATION TOTALS BY PHASE	DY	0	0	0	0					
PAINT REMOVAL						0	0			SEE BELOW
DRY BLASTING	SF					0	0	60	SF / DAY	
WATER BLASTING	SF					0	0	235	SF / DAY	
POWER TOOLED	SF					0	0	28	SF / DAY	
DURATION TOTALS BY PHASE	DY	0	0	0	0					
CLEAN AND RESEAL JOINTS	LF						0	240	LF / DAY	
DURATION TOTALS BY PHASE	DY	0	0	0	0					
EXPANSION JOINTS	LF	94					1	160	LF / DAY	
DURATION TOTALS BY PHASE	DY	0.63	0	0	0					
TEST PILES	EA	74					37	2	EA / DAY	WITH 30 DAY PROCUREMENT
DURATION TOTALS BY PHASE	DY	37	0	0	0					
CONCRETE PILING 24"	LF	622					2	300	LF / DAY	200-400
DURATION TOTALS BY PHASE	DY	2.07	0	0	0					
DRILLED SHAFTS	LF						0	300	LF / DAY	200-400
DURATION TOTALS BY PHASE	DY	0	0	0	0					
COFFERDAMS	EA						0	0.25	EA / DAY	2-3
DURATION TOTALS BY PHASE	DY	0	0	0	0					
SUBSTRUCTURE							0			SEE BELOW
FOOTINGS	CY					0	0	20	CY / DAY	10-30
COLUMNS, BENTS AND CAPS	CY					0	0	8	CY / DAY	4-12
STEEL BEAMS	LF					0	0	150	LF / DAY	
PRECAST BEAMS	LF					0	0	425	LF / DAY	250-600
DURATION TOTALS BY PHASE	DY	0	0	0	0					
SUPERSTRUCTURE	CY						4			SEE BELOW
DECK	CY	28.8				27	2	14	CY / DAY	7-20
BARRIER WALLS	LF	206				206	2	120	LF / DAY	50-150
DURATION TOTALS BY PHASE	DY	4	0	0	0					
APPROACH SLABS	CY	33.4					2	15	CY / DAY	SEE BELOW
DURATION TOTALS BY PHASE	DY	2.23	0	0	0					
RETAINING WALLS	SF						0	150	SF / DAY	100-200
DURATION TOTALS BY PHASE	DY	0	0	0	0					
BRIDGE FLOOR GROOVING	SY	83.4					0	1200	SY / DAY	
DURATION TOTALS BY PHASE	DY	0.06	0	0	0					
TRAFFIC RAILING BARRIER	LF	63					0	200	LF / DAY	
DURATION TOTALS BY PHASE	DY	0.32	0	0	0					
RIPRAP	TN						0	90	TN / DAY	
DURATION TOTALS BY PHASE	DY	0.02	0	0	0					
ACROW BRIDGE	LF						0	6	LF / DAY	
DURATION TOTALS BY PHASE	DY	0	0	0	0					
CONCRETE PARAPET	LF	63					1	115	LF / DAY	
DURATION TOTALS BY PHASE	DY	0.55	0	0	0					
BULK HEAD	CY	26.4					1	20	CY / DAY	
DURATION TOTALS BY PHASE	DY	1.33	0	0	0					
SHEET PILING	SF	1830					2	735	SF / DAY	
DURATION TOTALS BY PHASE	DY	2.49	0	0	0					

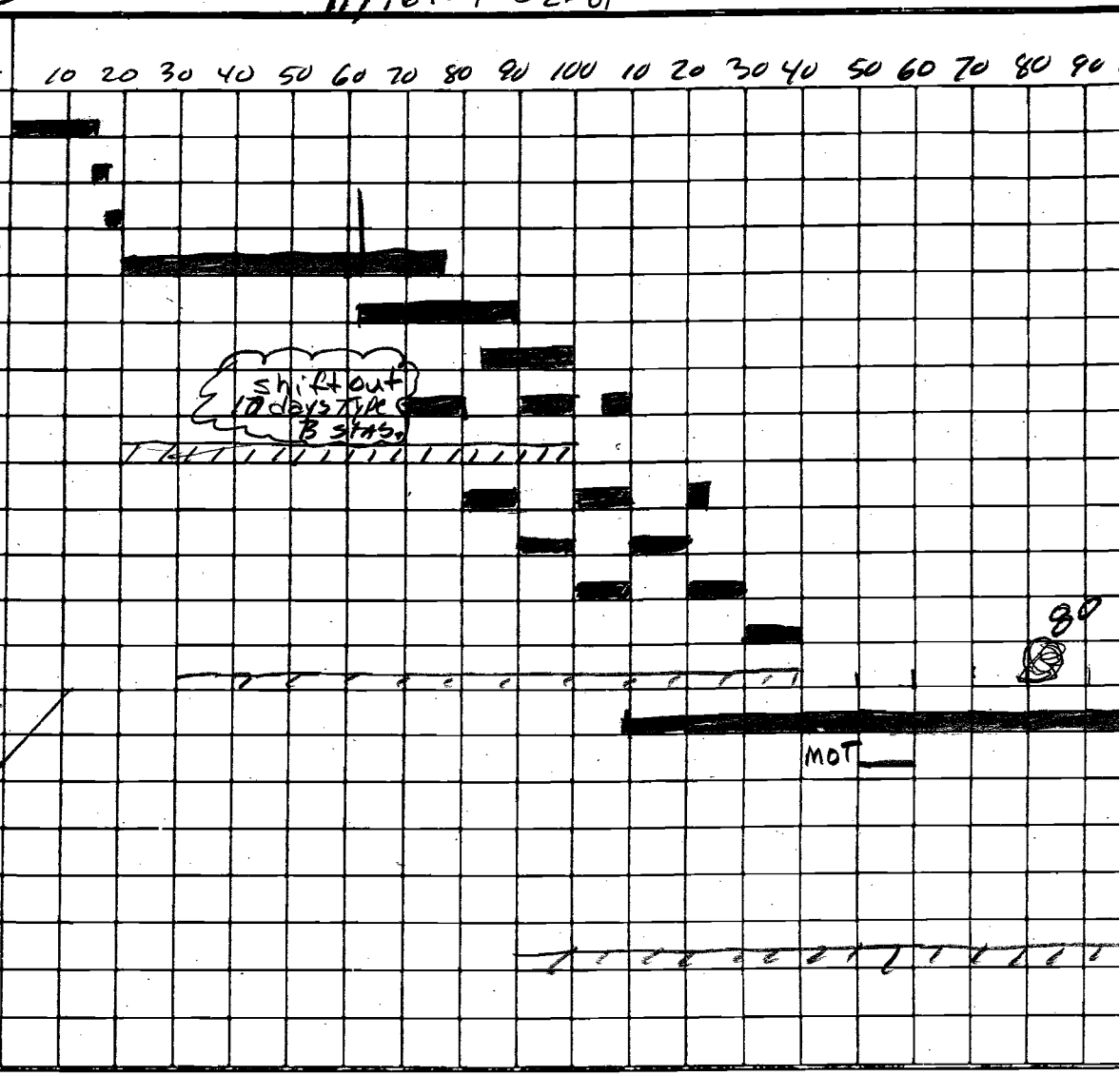
D-3

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ESTIMATE OF CONTRACT TIME

Night work only Sunday – Thurs

1.40 4/4764-1-52-01

ACTIVITY	UNIT OF WORK	PROD RATE	DAYS	X ~~1.46~~
GENERAL				15
MOT				3
EROSION				2
DRAINAGE	diff		40.5	57
CONC C&G		200/DA	20	28
SIDEWALK		100SY/DA	11	15
WIDENING G11		200SY/DA	18	25
Subsoil				
BASE OVERLAY				
widening 04/09		200SY/DA	15	21
BASE OVERLAY				
Retaining wall				
EXC. of Ponds / EW				
Bridge Const		(guess)	90	125
milling	24873	4000	7	10
SP including 1" over BASE	24873 6500			
GR / Removal / Replace	2807	250'/300'	10	14
Landscaping				
Sodding				



_____ TIME PRIORITY _____ INCENTIVE/DIS-INCENTIVE _____ FLEX TIME START _____ SPECIAL WORK HOURS _____
FEDERAL AID PROJECT NO. _____ STATE LEAD PROJECT NO. _____ COUNTY _____ CONTRACT TIME _____ CONTRACT DAYS APPROVED _____
NAME _____ PHONE NO. _____ SUNCOM _____

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ESTIMATE OF CONTRACT TIME

1.4

ACTIVITY	UNIT OF WORK	PROD RATE	DAYS	X ~~1.46~~
GR / misc				
Landscaping				
Sodding				
F.C.			4	5
Striping			5	7
+14				14
Final Strip				5

60 70 80 90 300 310 320 330 340

_____ TIME PRIORITY _____ INCENTIVE/DIS-INCENTIVE _____ FLEX TIME START _____ SPECIAL WORK HOURS _____

FEDERAL AID PROJECT NO. _____ STATE LEAD PROJECT NO. _____ COUNTY _____ CONTRACT TIME _____ CONTRACT DAYS APPROVED _____

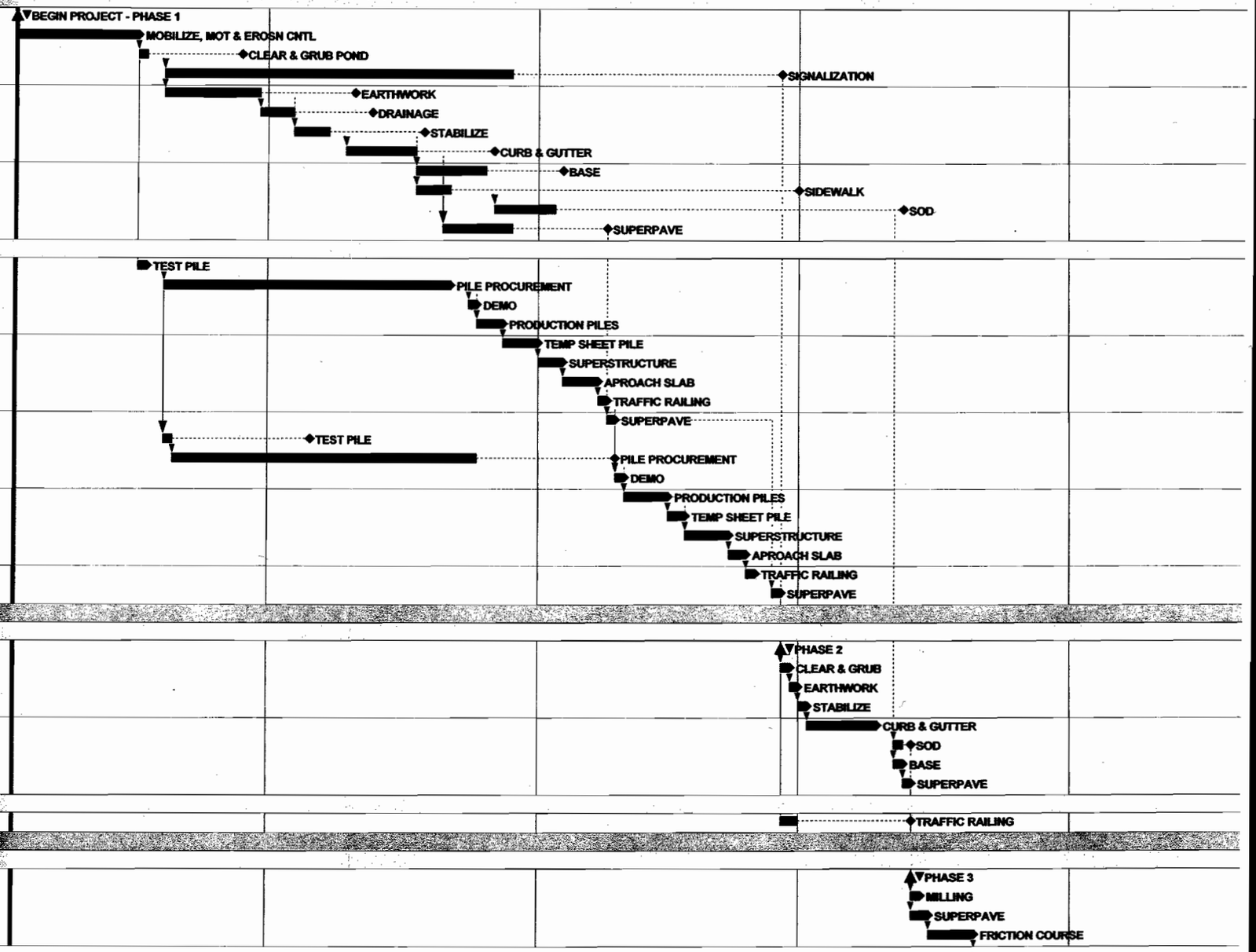
NAME _____ PHONE NO. _____ SUNCOM _____

Round to ~~320~~ 305 = 31

General	15
MOT	3
Erosion	2
Drainage	42
Conc curb & gutter	8
Sidewalk	~~0~~
Widening GOP 11	20
Bridge	125
SP / milling	15
Guardrail / misc	10
Sodding / Guardrail	10
FC	5
Striping	7
+ 14	14
	5
	281
	42 Add 15% due to lane closure restrictions
	323 Round to 320

SEE Chart

PHASE 1						
ROAD WORK						
100	BEGIN PROJECT - PHASE 1	0		0	0	5
105	MOBILIZE, MOT & EROSN CNTL	1	LS	10	0	5
110	CLEAR & GRUB POND	2	AC	1	7	5
115	SIGNALIZATION	2	EA	30	21	5
120	EARTHWORK	6,560	CY	9	7	5
130	DRAINAGE	446	LF	2	7	5
135	STABILIZE	6,317	SY	4	7	5
140	CURB & GUTTER	2,043	LF	6	7	5
150	BASE	5,852	SY	6	7	5
160	SIDEWALK	1,064	LF	4	28	5
165	SOD	12,288	SY	5	28	5
170	SUPERPAVE	1,800	TON	6	7	5
BRIDGE WORK						
EB805	TEST PILE	74	LF	1	0	5
EB810	PILE PROCUREMENT	5	WKS	25	0	5
EB815	DEMO	219	SF	1	0	5
EB820	PRODUCTION PILES	622	LF	3	0	5
EB825	TEMP SHEET PILE	1,830	SF	2	0	5
EB850	SUPERSTRUCTURE	28	CY	3	0	5
EB855	APROACH SLAB	33	CY	2	0	5
EB860	TRAFFIC RAILING	63	LF	1	0	5
EB870	SUPERPAVE	24	TN	1	0	5
WB805	TEST PILE	74	LF	1	12	5
WB810	PILE PROCUREMENT	5	WKS	25	12	5
WB815	DEMO	219	SF	1	0	5
WB820	PRODUCTION PILES	622	LF	3	0	5
WB825	TEMP SHEET PILE	1,830	SF	2	0	5
WB850	SUPERSTRUCTURE	28	CY	3	0	5
WB855	APROACH SLAB	33	CY	2	0	5
WB860	TRAFFIC RAILING	63	LF	1	0	5
WB870	SUPERPAVE	24	TN	1	0	5
PHASE 2						
ROAD WORK						
200	PHASE 2	0		0	0	5
210	CLEAR & GRUB	1	AC	1	0	5
220	EARTHWORK	729	CY	1	0	5
240	STABILIZE	702	SY	1	0	5
250	CURB & GUTTER	2,043	LF	6	0	5
270	SOD	1,365	SY	1	1	5
280	BASE	650	SY	1	0	5
290	SUPERPAVE	150	TON	1	0	5
BRIDGE WORK						
295	TRAFFIC RAILING	126	LF	2	9	5
PHASE 3						
ROAD WORK						
300	PHASE 3	0		0	0	5
310	MILLING	6,218	SY	1	0	5
320	SUPERPAVE	300	TN	2	0	5
340	FRICTION COURSE	522	LF	3	0	5



175 NO HOLIDAYS

Start Date	25OCT06
Finish Date	09JUL08
Data Date	01FEB08
Run Date	07AUG06 15:38

Early Bar
Float Bar
Progress Bar
Critical Activity

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TIME

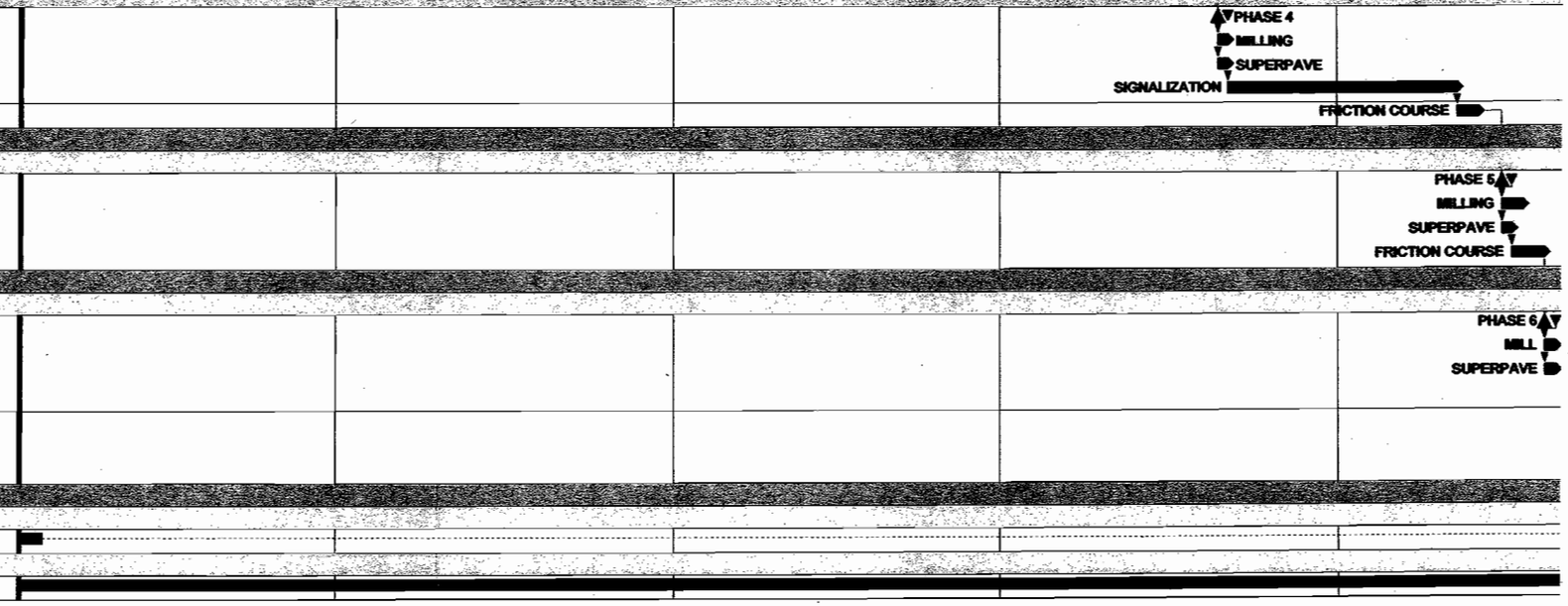
Sheet 1 of 2

SCHEDULER'S MEETING 2006
FPN: 414764-1-52-01
MIAMI-DADE COUNTY
DISTRICT FIVE

FLORIDA DEPARTMENT OF TRANSPORTATION

Date	Revision	Checked	Approved

PHASE 4						
ROAD WORK						
400	PHASE 4	0		0	0	5
405	MILLING	4,975	SY	1	0	5
410	SUPERPAVE	300	TN	1	0	5
415	SIGNALIZATION	1	EA	15	0	5
420	FRICTION COURSE	348	TN	2	0	5
PHASE 5						
ROAD WORK						
500	PHASE 5	0		0	0	5
510	MILLING	8,706	SY	2	0	5
520	SUPERPAVE	300	TN	1	0	5
540	FRICTION COURSE	522	LF	3	0	5
PHASE 6						
ROAD WORK						
600	PHASE 6	0		0	0	5
610	MILL	4,975	SY	1	0	5
620	SUPERPAVE	150	TON	1	0	5
640	FRICTION COURSE	348	TON	2	0	5
650	FINAL STRIPING 2ND APPL	6	MI	1	0	5
660	STRIPING CURE PERIOD	1	LS	14	0	2
999	PROJECT COMPLETE	0		0	0	5
UTILITIES						
10	MIAMI-DADE COUNTY	0	CD	2	158	2
10000	CONTRACT TIME	0		160*	0	2



Start Date	25OCT06
Finish Date	09JUL08
Data Date	01FEB06
Run Date	07AUG06 15:38

Early Bar
Float Bar
Progress Bar
Critical Activity

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TIME

Sheet 2 of 2

SCHEDULER'S MEETING 2006
FPN: 414764-1-52-01
MIAMI-DADE COUNTY
DISTRICT FIVE

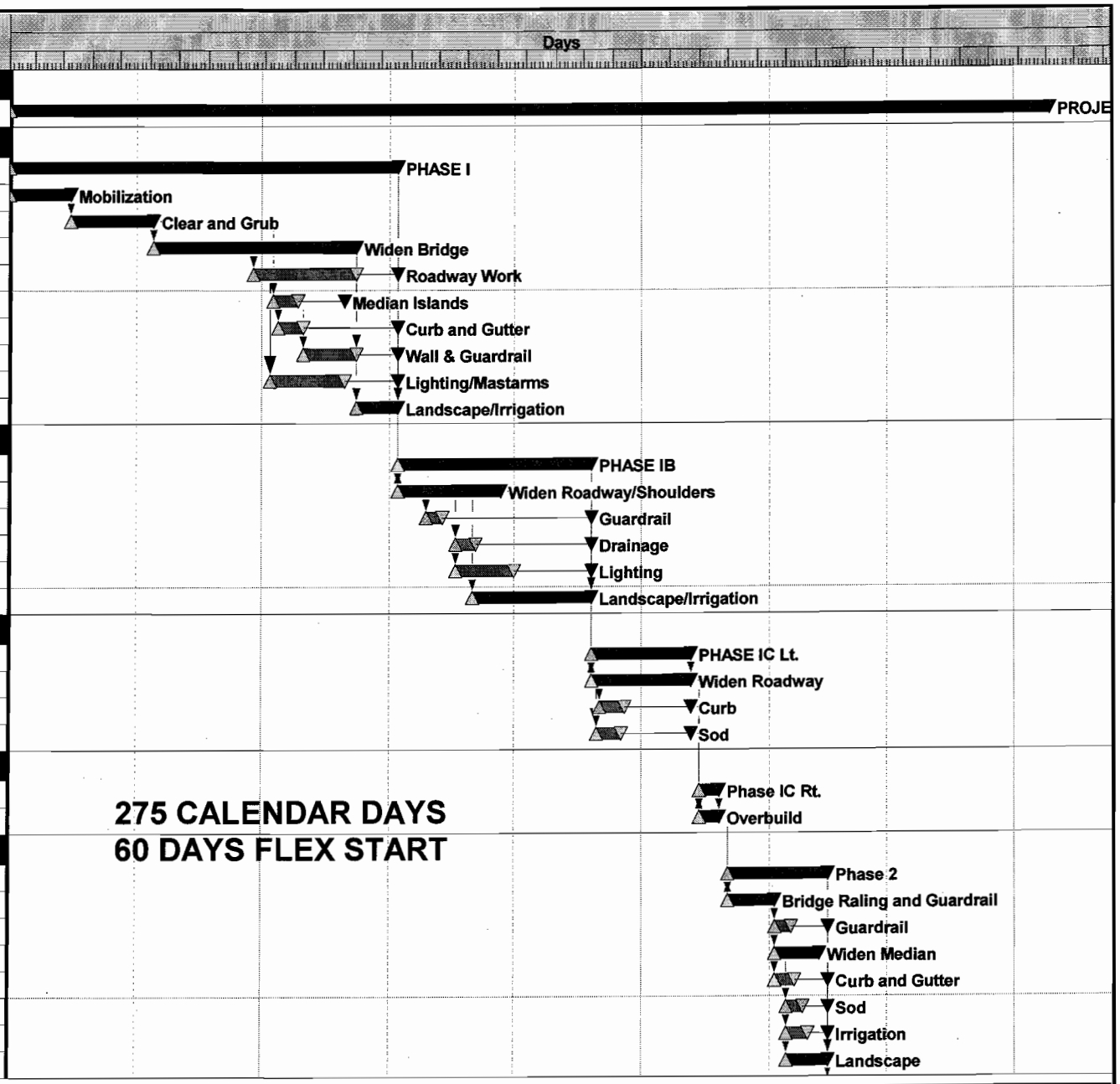
FLORIDA DEPARTMENT OF TRANSPORTATION

Date	Revision	Checked	Approved

Scheduler's Meeting 2006
FPN 414764-1-52-01
Miami-Dade County

Concurrency	227		Phase																				
			I			II			III			IV			V			VI					
Description of Work	Total	Units	% Comp	Quantity	Days	% Comp	Quantity	Days	% Comp	Quantity	Days	% Comp	Quantity	Days	% Comp	Quantity	Days	% Comp	Quantity	Days	Quantity Check	Production Rate: Quantity/Day	Comments
Roadway																							
Mob, MOT & Erosion	1	LS	100%	1	10	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		0	Production based on quantity
Clearing and Grubbing	3	AC	67%	2	1	33%	1	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		10	Production based on quantity
Drainage	446	LF	100%	446	2	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		300	Production based on quantity
Earthwork	7,289	CY	90%	6,560	9	10%	729	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		See Graph	Production based on quantity
Sidewalk	1,064	SY	100%	1,064	4	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		300	Production based on quantity
Curb & Gutter	4,086	LF	50%	2,043	6	50%	2,043	6	0%	0	0	0%	0	0	0%	0	0	0%	0	0		400	Production based on quantity
Mill Existing Pavement	24,873	SY	0%	0	0	0%	0	0	25%	6,218	1	20%	4,975	1	35%	8,706	2	20%	4,975	1		8,000	Production based on quantity
Stabilization	7,018	SY	90%	6,317	4	10%	702	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		1,800	Production based on quantity
Base	6,502	SY	90%	5,852	6	10%	650	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		See Graph	Production based on quantity
Superpave	3,000	TN	60%	1,800	6	5%	150	1	10%	300	2	10%	300	2	10%	300	2	5%	150	1		See Graph	Production based on quantity
Sodding/Grassing	13,653	SY	90%	12,288	5	10%	1,365	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		3,000	Production based on quantity
Signalization	3	EA	0%	0	0	0%	0	0	67%	2	30	33%	1	1	0%	0	0	0%	0	0		15	Production based on quantity
Friction Course	1,740	TN	0%	0	0	0%	0	0	30%	522	3	20%	348	2	30%	522	3	20%	348	2		See Graph	Production based on quantity
Final Stripping	6	MI	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	100%	6	1		7	Production based on quantity
Bridge EB																							
Demo	218.5	SF	100%	219	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		270	Production based on quantity
Temp Sheet Pile	1830	SF	100%	1,830	2	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		1,000	Production based on quantity
Test Pile	74	LF	100%	74	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		300	Production based on quantity
Pile Procurement	5	WKS	100%	5	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		400	Production based on quantity
Production Piles	622	LF	100%	622	3	0%	0	0	0%	0	76	0%	0	0	0%	0	0	0%	0	0		300	Production based on quantity
Superstructure	27.8	CY	100%	28	3	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		11	Production based on quantity
Approach Slabs	33.4	CY	100%	33	2	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		20	Production based on quantity
Traffic Railing	126	LF	50%	63	1	50%	63	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		80	Production based on quantity
Superpave	24	TN	100%	24	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		80	Production based on quantity
Bridge WB																							
Demo	218.5	SF	100%	219	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		270	Production based on quantity
Temp Sheet Pile	1830	SF	100%	1,830	2	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		1,000	Production based on quantity
Test Pile	74	LF	100%	74	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		300	Production based on quantity
Pile Procurement	5	WKS	100%	5	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		7	Production based on quantity
Production Piles	622	LF	100%	622	3	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		300	Production based on quantity
Superstructure	27.6	CY	100%	28	3	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		11	Production based on quantity
Approach Slabs	33.4	CY	100%	33	2	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		20	Production based on quantity
Traffic Railing	126	LF	50%	63	1	50%	63	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0		80	Production based on quantity
Superpave	24	TN	100%	24	1	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0		80	Production based on quantity
					83			14			112			6			7			5			

Activity ID	Activity Description	Original duration	Early Start
PROJECT DURATION			
10	PROJECT DURATION	252*	01AUG06
PHASE IA			
100	PHASE I	94*	01AUG06
110	Mobilization	15	01AUG06
120	Clear and Grub	14	16AUG06
130	Widen Bridge	35	05SEP06
140	Roadway Work	17	29SEP06
150	Median Islands	4	04OCT06
160	Curb and Gutter	4	05OCT06
170	Wall & Guardrail	9	11OCT06
180	Lighting/Mastarms	14	03OCT06
190	Landscape/Irrigation	8	24OCT06
PHASE IB			
200	PHASE IB	47*	03NOV06
210	Widen Roadway/Shoulders	17	03NOV06
220	Guardrail	2	10NOV06
230	Drainage	3	17NOV06
240	Lighting	10	17NOV06
250	Landscape/Irrigation	21	21NOV06
PHASE IC LT.			
300	PHASE IC Lt.	24*	20DEC06
310	Widen Roadway	18	20DEC06
320	Curb	4	22DEC06
330	Sod	4	21DEC06
PHASE IC RT.			
340	Phase IC Rt.	5*	15JAN07
350	Overbuild	5	15JAN07
PHASE 2			
360	Phase 2	18*	22JAN07
370	Bridge Raling and Guardrail	9	22JAN07
380	Guardrail	2	02FEB07
390	Widen Median	7	02FEB07
400	Curb and Gutter	3	02FEB07
410	Sod	4	05FEB07
420	Irrigation	5	05FEB07
430	Landscape	8	05FEB07



275 CALENDAR DAYS
60 DAYS FLEX START

Start Date	01AUG06
Finish Date	09APR07
Data Date	01AUG06
Run Date	07AUG06 16:40

Early Bar
Float Bar
Progress Bar
Critical Activity

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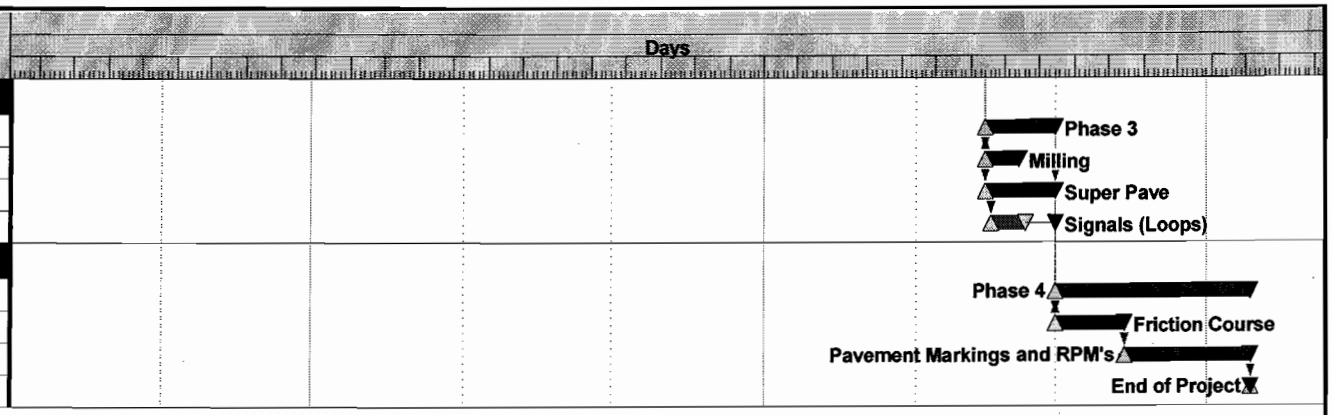
4764 **Sheet 1 of 2**

Financial Project ID:414764-1-52-01
Description: SR-826 / NW 154th STREET INTE
ESTIMATE OF CONTRACT TIME

Prepared by Terry Jones

Date	Revision	Checked	Approved
07AUG06	CPAM 1.48 FACTOR PER CPAM	TFJ	TFJ

DIST 7

Activity ID	Activity Description	Original duration	Early Start
PHASE 3			
440	Phase 3	10*	15FEB07
450	Milling	5	15FEB07
460	Super Pave	10	15FEB07
470	Signals (Loops)	5	16FEB07
PHASE 4			
480	Phase 4	28*	01MAR07
490	Friction Course	10	01MAR07
500	Pavement Markings and RPM's	18	15MAR07
510	End of Project	0	10APR07