

AGENDA ITEM # 21

Consider authorizing advertising and setting date for public hearing on 4-way stop sign at Clear Spring Road and Pecan Lane in Oak Crest Subdivision.

Moved: Commissioner Hays

Seconded: Judge Doerfler

Motion: To approve public hearing on 4-way stop sign at Clear Spring Road and Pecan Lane in Oak Crest Subdivision on January 4, 2000 at 10:00 a.m.

Vote: Motion carried 5 - 0

AGENDA ITEM # 22

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Consider approving contract(s) for pavement management system for Unified Road System.

Moved: Judge Doerfler

Seconded: Commissioner Boatright

Motion: To approve accepting contract from HDR Professional Engineering Inc for pavement management system for Unified Road System in the amount of \$149,066.00

Vote: Motion carried 4 - 0 with Commissioner Hays absent from the dais.

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Scope of Work
Optional Task IV - Williamson County
Pavement Management System

The Pavement Management System (PMS) will be developed in a five (5) step process:

- ✓ The Pavement Network Inventory (PNI),
- ✓ Development of Evaluation Criteria,
- ✓ Survey of Pavement Conditions (SPC),
- ✓ Pavement Condition Index (PCI), and
- ✓ Database Programming.

1. The Pavement Network Inventory (PNI). A general network inventory was prepared as part of the Williamson County Multi-Corridor Transportation Plan. This step will list roadways by name with their corresponding length and width. To better manage the roadway network inventory, roadway segments will be designated which correspond to intersections and/or changes in pavement types. Other items to be included in the PNI will be:

- Functional classification
- Section length
- Subgrade type
- Surface type
- Surface width
- Shoulder type
- Drainage type
- Average Daily Traffic (ADT) projections

Upon completion of the PNI, the county engineering office will review and modify, if necessary, this inventory for current accuracy prior to placement in the PMS database.

2. Development of the Evaluation Criteria. Prior to conducting the SPC, general evaluation criteria will be developed with input from the county staff. The criteria developed will evaluate the current roadway for distress and condition. These evaluation criteria will focus on the following conditions and constraints:

- Pavement condition
- Drainage condition
- Geometric/Right-of-Way Constraints

3. The Survey of Pavement Conditions (SPC). The Engineer will perform an on-ground survey of current conditions. The SPC will focus on the collection of information needed to identify:
- a) Roadways which need no immediate maintenance and therefore require no immediate expenditures.
 - b) Roadways which require minor or routine maintenance and immediate expenditures.
 - c) Roadways which require preventive maintenance activities such as overlay, seal, etc.
 - d) Roadways that need major rehabilitation or reconstruction. These roadways will be identified as those, which have deteriorated to the point that maintenance is no longer cost-effective and more major work is required to raise the condition to an acceptable level.
4. The Pavement Condition Index (PCI). The Engineer will be developed for each segment of roadway based on the SPC. The purpose of the PCI will be used to rank the projects according to their current level of distress and condition. Numerical values will be assigned, based on visual inspection, to the following areas of distress:
- Bleeding
 - Corrugation
 - Depression
 - Potholes
 - Rutting
 - Shoving
 - Swell
 - Alligator Cracking
 - Block Cracking
 - Bumps and Sags
 - Edge Cracking
 - Polished Aggregate
 - Railroad Crossing (if any)
 - Slippage Cracking
 - Longitudinal-Transverse Cracking
 - Patching & Utility Patching
 - Joint Reflection Cracking
 - Weathering and Raveling
 - Lane/Shoulder Drop-Off

The PCI tabulation will be created to automatically calculate an index for each segment of roadway defined in the PMI after the inspection data is recorded.

5. The Database Programming. The Engineer will perform an estimate of the cost associated with each project. Once the PCI is generated for each roadway, the engineer will perform current improvement cost estimates on a unit cost basis. The type of construction cost will be further divided into reconstruction, rehabilitation, and general maintenance type projects.

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ATTACHMENT 'B'

WILLIAMSON COUNTY
HDR ENGINEERING - MANHOLES BREAKDOWN
PAYMENT MANAGEMENT SYSTEM

Task Sheets	Task IV - Payment Management System Work Description	MANHOLES						TOTAL HRS	DIRECT LABOR COSTS	DIRECT LABOR & PROFIT	% Total per Task
		A	B	C	D	E	F				
1	Develop Pavement Network Inventory (PNI) - Identify functional classification for each roadway - Determine roadway lengths by segments - Determine roadway subgrade, surface, width, & shoulders - Determine drainage type and methodology - Collect ADT data for each roadway - Tabulate and Report PNI for each roadway 2 - Develop Evaluation Criteria for use in PMS 3 - Perform Pavement Condition Survey (SPC) - Perform windshield survey of each roadway - Tabulate and Report results of SPC 4 - Develop Pavement Condition Index (PCI) - Develop numerical criteria for distress conditions - Tabulate and Report results of PCI 5 - Develop Database Program of PMS - Develop improvement cost estimate for each roadway - Tabulate and Report results of PMS - Kick-Off Meeting - Coordination Meetings w/ Client & County	-	-	-	-	-	-	-	-	-	-
		0	0	8	0	0	0	8	\$280	\$847	0.6%
		0	0	8	0	0	0	8	\$280	\$847	0.6%
		0	0	8	0	0	0	8	\$280	\$847	0.6%
		0	0	8	0	0	0	8	\$280	\$847	0.6%
		0	0	8	0	0	0	8	\$280	\$847	0.6%
		16	0	20	0	16	8	60	\$2,012	\$6,085	4.2%
		16	16	40	40	16	4	132	\$4,400	\$13,908	9.2%
		-	-	-	-	-	-	-	-	-	-
		40	0	250	250	0	4	544	\$17,822	\$53,903	37.8%
		16	32	40	40	0	8	136	\$4,744	\$14,348	9.4%
		-	-	-	-	-	-	-	-	-	-
		16	0	40	60	0	12	128	\$4,096	\$12,388	8.0%
		32	32	24	24	0	0	112	\$4,392	\$13,284	7.8%
		-	-	-	-	-	-	-	-	-	-
		12	0	16	24	0	0	52	\$1,832	\$5,543	3.6%
		32	32	48	60	4	8	184	\$6,476	\$19,587	12.8%
		8	0	8	0	0	2	18	\$716	\$2,166	1.3%
		16	0	16	0	0	2	34	\$1,396	\$4,222	2.4%
0	TOTAL HDR DIRECT LABOR	204	112	542	498	36	48	1440	\$49,286	\$150,365	100%
	% Total by Classification	14.17%	7.78%	37.64%	34.58%	2.50%	3.33%				

Approved 11-30-99
John C. Dayle

Labor Categories
A = Project Manager/Sr. Project Engr
B = Project Engineer/Planner
C = Design Engineer
D = Design Tech
E = CADD/Drafting
F = Clerical

HDR ENGINEERING
Printing and Reproduction \$1,491
Travel \$8,813
Computer & CADD \$8,853
Telephone, Fax & Misc Communications \$100
Photos & Miscellaneous \$500
TOTAL HDR DIRECT COSTS \$15,756

SUBCONTRACTS

TOTAL SUBCONTRACT COST \$0

82

AGENDA ITEM # 23

Discuss and take any appropriate action pertaining to any changes to county retirement program for calendar year 2000.

Moved: Commissioner Boatright

Seconded: Commissioner Limmer

Motion: To approve 60% of consumer price index for cost of living raise to county retirement program for calendar year 2000.

Vote: Motion carried 4 - 0 with Commissioner Hays absent from the dais.

AGENDA ITEM # 24

Consider approving an order for issuance of certificates of obligation for road improvements.

Moved: Commissioner Limmer

Seconded: Judge Doerfler

Motion: To approve \$22.5m for issuance of certificates of obligation for road construction and improvements, paving, drainage and dam safety with \$20m to be divided equally between the four (4) precincts and \$2.5m to finish County Road 122 and Highway 79.

Vote: Motion carried 5 - 0

AGENDA ITEM # 25

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Consider an action with respect to the Resolution Expressing Official Intent to reimburse certain expenditures regarding acquisition of right-of-way for County Road 122 and Highway 79.

Moved: Judge Doerfler

Seconded: Commissioner Hays

Motion: To approve Resolution Expressing Official Intent to reimburse certain expenditures regarding acquisition of right-of-way for County Road 122 and Highway 79.

Vote: Motion carried 5 - 0

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