

Practical Design



2007 Awards for Excellence



ACEC
Missouri

AMERICAN COUNCIL OF ENGINEERING
COMPANIES of Missouri

Practical Design

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In the face of today's market volatility, increasing public demand, and decreasing revenue, state DOTs must deliver the transportation system better, faster, and cheaper than ever before. MoDOT's Practical Design effort accomplishes that goal by building "good"- not "great"- projects, in order to achieve a great highway system overall.

Innovation and creativity are the keys to accomplishing Practical Design. MoDOT, partnering with the American Council of Engineering Companies of Missouri (ACEC-MO), recognizes project teams that challenge traditional engineering standards to efficiently solve today's transportation needs.

In early 2005, the concept of Practical Design was implemented and was instrumental in offsetting the pricing pressures being experienced by individual project budgets. For fiscal year 2006, MoDOT projects were awarded within 6.8 percent of the programmed project budgets. This is in contrast to other states that have experienced even greater cost increases and, in some cases, the inability to deliver their STIP commitments.

The *2007 Awards for Excellence in Practical Design* provide opportunity for MoDOT district, central office-bridge and consultant firms to compete head-to-head for state recognition.

RECOGNITION

Winners will be recognized in March during a general session of the annual TEAM Conference in St. Louis. The competition offers the opportunity for district, central office and consultant firms to showcase their best practical design achievements, to date, to an audience of clients, peers and decision-makers at various levels.

ELIGIBILITY

- MoDOT districts, CO-bridge and any consultant engineering firm (may or may not be a ACEC/MO or ACEC member) having designs completed or started after January 1, 2005.
- Projects may or may not have been awarded by MHTC.

GENERAL CRITERIA

1. Entries must be submitted in accordance with the rules and requirements in this brochure.
2. Each MoDOT District and CO-Bridge will be allowed to submit a maximum of two projects.
3. Each Consultant Firm will be allowed to submit a maximum of one project.
4. Submittal must be a MoDOT project.
5. Each project will be submitted as the best example of practical design by the respective MoDOT district, bridge division, or consultant firm; but will be judged across various categories. The entries shall not designate the category of interest.
6. **Categories** will consist of the following, but more categories may be created at the discretion of the judges:
 - **Best Bridge Project** (small & large)
 - **Best Rehabilitation Project** (small & large)
 - **Best New Construction Project** (small & large)
 - **Most Innovative Solution**
7. **Submittal:** Six copies of the following:
 - Cover Letter / Summary – Two 8.5"x11" pages, single-sided
 - Backup, plans, etc. – Five 8.5"x11" pages max., single-sided
 - No bound or stapled submittals
 - Completed 2007 application form
8. **Judges:**
 - 1-ACEC Member
 - 3-MoDOT Officials
 - 1-FHWA Official
 - 1-City or County Official
 - 1-Contractor Professional
9. **Judging:** Entries will be judged on the basis of practical design across several categories. (Judges may modify categories based on entries received.)
10. **Publicity:** All winners will be highlighted in MoDOT's *Connections* monthly newspaper and on MoDOT's web site, ACEC's newsletters and web site, and on the TEAM web site. Further benefits may be gained through features presented in firms' brochures, newsletters or other print or broadcast media.
11. The *2007 Awards for Excellence in Practical Design* Committee reserves the right to determine the eligibility and category classification for all entries.
12. **Awards:** Will be presented at the 2007 TEAM Conference.
13. **Rating Guidelines for Judging**

a. Scope comparison	20 %
b. "Purpose and Need"	20 %
c. New techniques and non-traditional design	20 %
d. Cost savings	20 %
e. Roadway user expectations.....	20 %
TOTAL	100 %

RATING GUIDELINES

A. Scope Comparison

- Does the entry demonstrate a thorough summary of the difference in scope between pre-practical design and current practical design? (ie. How would the design have looked if practical design didn't exist, and why does the current design look the way it does.)

B. Purpose and Need

- Does the entry adequately meet or deliver the project's purpose and need?
- Why does the current design represent the most appropriate, efficient, effective and reasonably safe design?

C. New techniques, methods and non-traditional design

- Does the entry provide a new or innovative method of construction?
- Does the entry provide a non-traditional design and an explanation of why the design is acceptable?

D. Cost Savings

- Document cost savings between STIP budget and actual project award cost (if applicable)
or
- If project has a STIP budget commitment and has not been awarded, then submittal of the engineers estimate is required for comparison.
or
- If project is not a STIP commitment, then the submittal shall include an engineer's estimate of pre-practical design scope and a current practical design scope estimate for comparison.

E. Roadway user expectations

- Does the design minimize traffic delays during construction?
- Does the design speed the overall construction time and impacts to the traveling public?
- Does the design provide a consistent roadway between logical termini?
- Does the design unnecessarily go beyond "Purpose and Need"?

2007 APPLICATION FORM

(required for each entry)

Job No. _____ Route _____ County _____

STIP Description (Scoping or Construction, state which STIP) 05-09 06-10 07-11

Project Manager (could have both)

MoDOT _____ Consultant _____

Active core team members as approved by the MoDOT PM (may include consultants)

_____	_____	_____
_____	_____	_____
_____	_____	_____

Project Contacts (will have both for consultant entry)

District _____ Consultant \$ _____

STIP budget \$ _____ or Award cost \$ _____

Value Engineering study during design? yes no (if yes) Project Stage _____

VE Contact person _____

Construction-stage VE (VECP)? yes no (if yes) Explain _____

Total VECP savings \$ _____ VECP Contact Person _____

Why is this entry the "poster" image for MoDOT's practical design philosophy?

(In layman's terms - 100 words or fewer – attach additional sheet if necessary) _____

Send entries to: MoDOT Design Division, ATTN: Jay Bestgen
1320 Creek Trail Dr.
Jefferson City, Missouri 65109

All entries must be received no later than close of business on February 1, 2007