



CAMPUS ENERGY

Clean Energy for the Next Generation

MANHOLE COVERS & VAULT MAINTENANCE

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**UTILITIES & ENERGY
SERVICES**
TEXAS A&M UNIVERSITY



UNIVERSITY DR.

OLD MAIN DR.

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JOE ROUTH

HOUSTON

BIZZELL

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TAMU Tunnel System

Need

- Tunnel system - secure to limit access from the surface, yet allow personnel to exit the tunnel

Solution

- Lockable covers were selected due to success at Super Bowl and meet Homeland Security requirements
- Standard for manhole covers on campus



Manhole Cover Specifications

- Lockable from either surface or underside using a self-contained locking system
- T-key is registered to specific operator/operations
- Meets or exceeds USDOT load requirements
- Direct replacement for existing cast iron covers
- Can be custom made for specific depth and size
- Custom shapes available



Manhole Cover Specifications

- Fiber reinforced polymer
- Weight ~25% of comparable sized cast manhole cover
- Does not require additional lifting equipment
- Does not transfer heat
- Anti-slip surface
- Manufactured in multiple colors w/custom logos or ID tags

Vault Maintenance

Includes:

- Sump pump(s) and discharge line
- Lighting
- Dehumidifiers
- Power supply
- Ladders and ladder ups
- Clean mud and slime off floors
- Seal cracks in walls and around pipe & conduit entry points
- Repair insulation and sheathing
- Lubricate and exercise valves
- Maintain and protection of manhole and ring

Thermal Line Vault Maintenance

Texas A&M University UES specifies direct buried thermal infrastructure for the following reasons:

Pros - Exercising valves is only maintenance of direct bury standard

Cons - it is easy for valves to be covered by Landscaping Services or Transportation Services

Solution – GPS mapping of all valves