



LANL Campus Future Outlook

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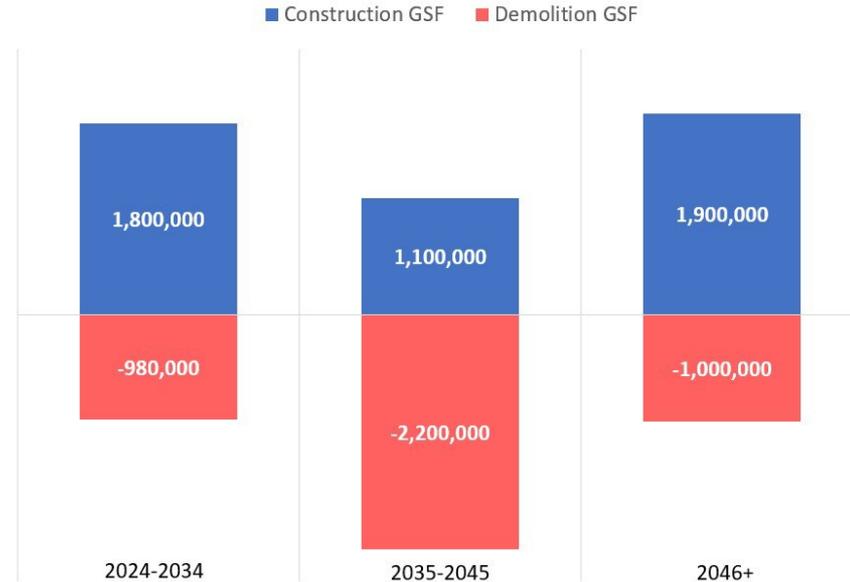
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Numerous Infrastructure Projects Planned for 20+ Years

- Triad has developed a Campus Master Plan (CMP) which identifies potential infrastructure projects over the next 20+ years
 - LANL's current facilities are aging, and many are in poor condition
 - Modern, safe facilities are required to support growing missions and staffing
- Projects include new building construction, demolition, utilities, and transportation
- Plan is **unconstrained** and represents total need
 - Actual projects to be executed will be determined by management priority and available budget



The CMP shows significant planned new construction and demolition over the next 20+ years

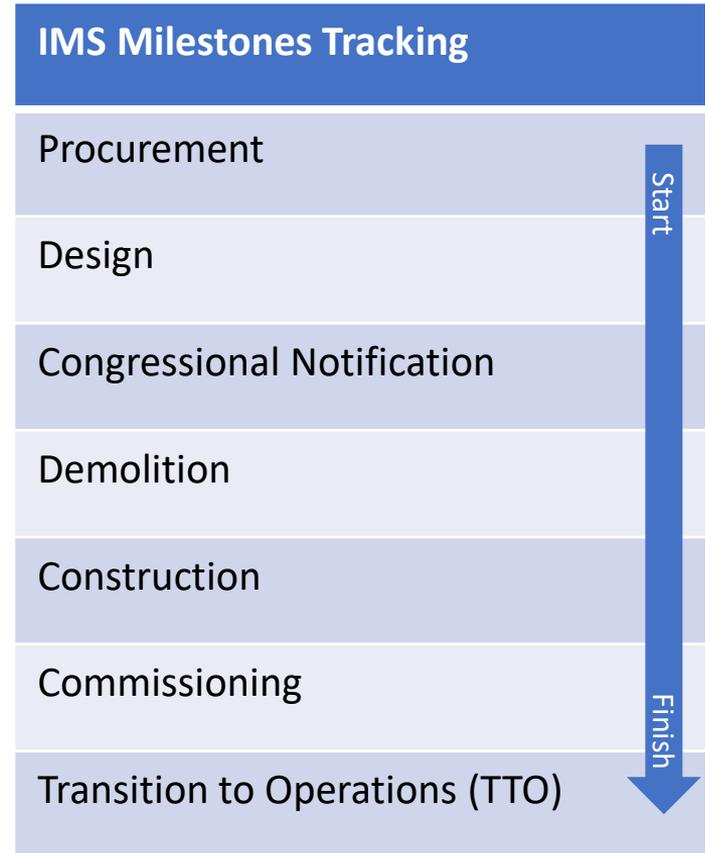
Campus Planning Initiatives

- Continued Integrated Site-Wide Planning
 - On-going stakeholder engagement to assess mission demands and changes
 - CMP is updated annually to highlight changes to existing projects or addition of new projects
- Refinement of CMP Planning Areas
 - Geotech, utility and transportation studies
- Adapt from large single building Line-Item projects to Minimum Viable Product (MVP) model
 - Ability to get quicker construction results for mission critical facilities
 - Provides a phased approach in funding and construction delivery



Campus Planning Initiatives

- Implementing “Integrated Master Schedule” (IMS) site-wide
 - P6 based schedule
 - Current IMS for Pajarito Corridor
 - 80+ projects - new facilities, demolition, utilities (new/relocation), roadway improvements
 - Organized by Neighborhoods
 - Future expansion to other planning areas
- Pajarito Corridor IMS
 - NNSA Excellence Award winner



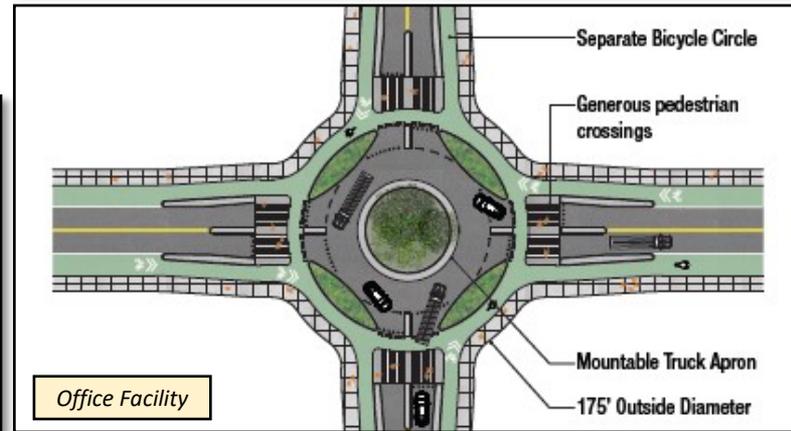
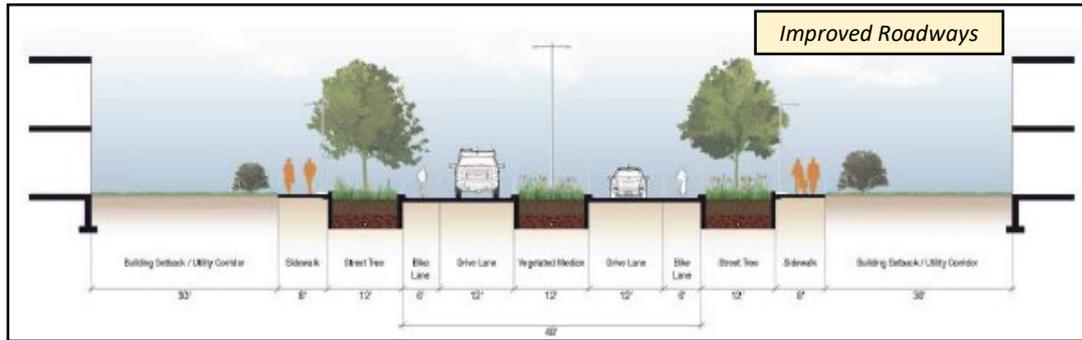
Utility Projects

- Utility systems at LANL include water, wastewater, natural gas, electric power, heating steam, telecommunications, and radioactive liquid waste
- Many systems are aging and need replacement
- Projects planned over the next 10 years include
 - Upgrades and expansions to existing distribution systems
 - Relocation of existing lines
 - Installation of new lines



Transportation Projects

- Onsite staffing increases necessitate road network improvements to increase safety and ease congestion
- Planned projects include
 - Existing road and intersection upgrades
 - New roads
 - Parking structure and surface parking lots
 - Transit infrastructure



Demolition Projects

- Projects range in size and complexity
- Some facilities planned for demolition are process contaminated and will require special waste handling
- Other projects include site cleanup and disposal of used equipment



Major Construction Projects (>\$34M)

- Line-item projects, funded by Congressional appropriation
 - Deliver new enduring capabilities and reduce obsolescence of ongoing capabilities
 - >\$50M subject to DOE Order 413.3B *Program and Project Management for the Acquisition of Capital Assets*
 - Approval and funding can take several years
 - Projects \$34M-\$50M follow a streamlined process
- Projects planned over the next 10 years include
 - Office buildings
 - Large scale experimental facilities
 - Secured operations structures
 - Training & Development Center
 - Electric Power Capacity Upgrade



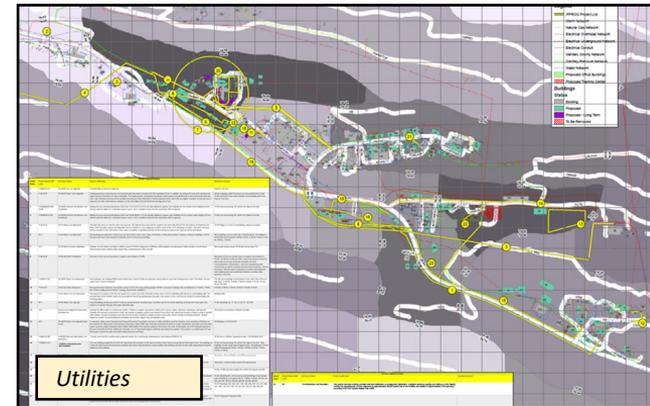
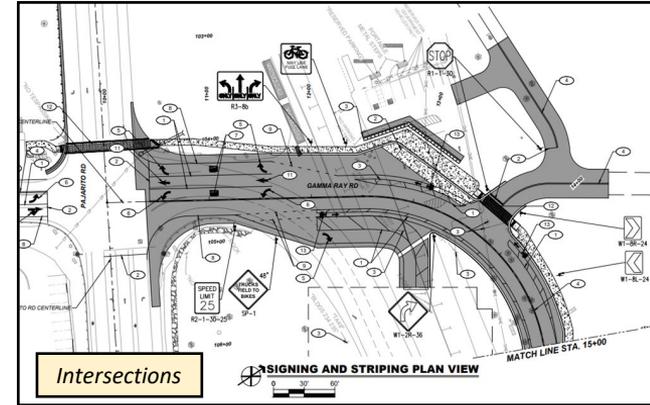
Minor Construction Projects (<\$34M)

- Direct & Indirect funded
- Execution methods are tailored – nuclear facility projects are planned with a different approach than non-nuclear facility projects
- Projects planned over the next 10 years include
 - Office buildings
 - Light laboratories
 - Small scale experimental facilities
 - HE Facilities
 - Warehouses/storage
 - Cafeterias
 - Secured operations structures
 - Major facility system replacements
 - Fire Protection



Process Initiatives & Outreach

- Fire Protection Exemption Request - “Reconsider”
 - Exemption to DOE O 420.1C/STD 1066
 - Commercial (low-complexity/non-nuclear) referencing national consensus codes, e.g., IBC, NFPA, versus DOE orders
- Commercial Construction Standards Manual (CCSM)
 - Streamlined from Tailored Standards Manual (TSM)
- Pre-construction Services
 - Standalone contracts and GC-led MATOC awards
- BIM Execution Plan (BEP)
 - Pilot to stand up the Virtual Built Environment (VBE) Program
- Industry Days
 - Presentations and Matchmaking
- Weekly forum – Outreach Tuesday 12:00-1:00 PM
 - Virtual presentations by AE’s, GC’s & suppliers



Contract Vehicles

- Sunset AE IDIQs
 - Remain for in-process work
- AE Supply Chain Management Center (SCMC)
 - Effective design contract with broad scope of services
- Master Task Order Agreement (MTOA)
- Multiple Award Task Order Contract (MATOC)
 - GC-led Design-Build
- 8A Direct Awards
- Mentor-Protégé Relationship
- Full & Open Competition
- SCMC Construction – End of Calendar Year 2024



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