

CAMPUS VOLTAGE UPGRADE PROJECT

Facilities Management – Energy Services

Craig Spencer, PE Director of Energy Services 5/18/2018



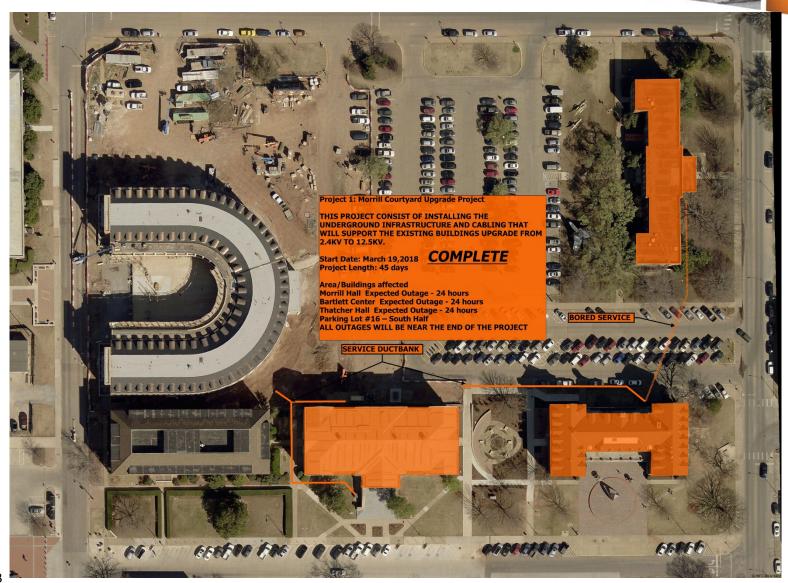
Voltage Upgrade Background



- Required to retire and demolish the Power Plant and Poultry Substation.
- Much of existing underground infrastructure has exceeded lifespan by 30-40 years.
- Replaces old failing underground cable pathways (Ductbanks)
- Replaces aged transformers, switchgear and cable.
- Provides redundancy and reliability in the campus distribution system.
- More efficient distribution with the higher voltage of 12,470V versus 2,400V.

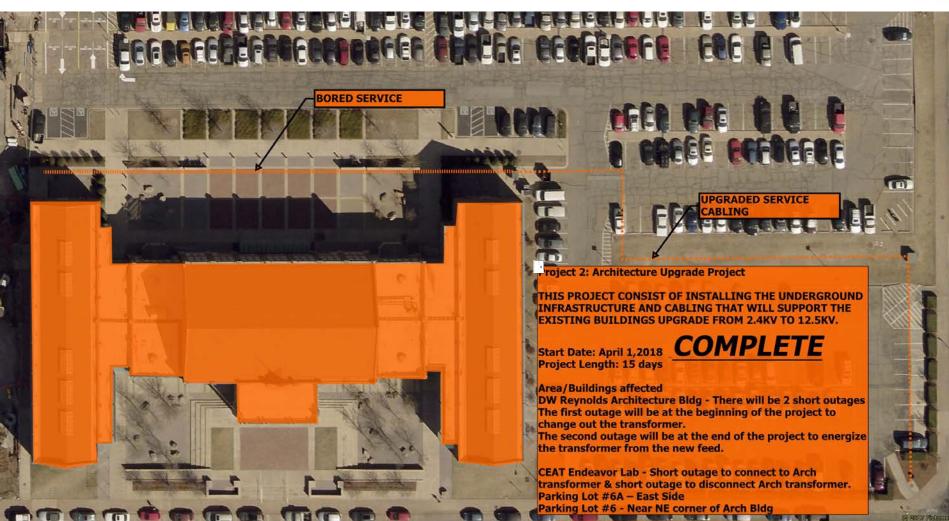


PROJECT-1 Morrill Courtyard Upgrade

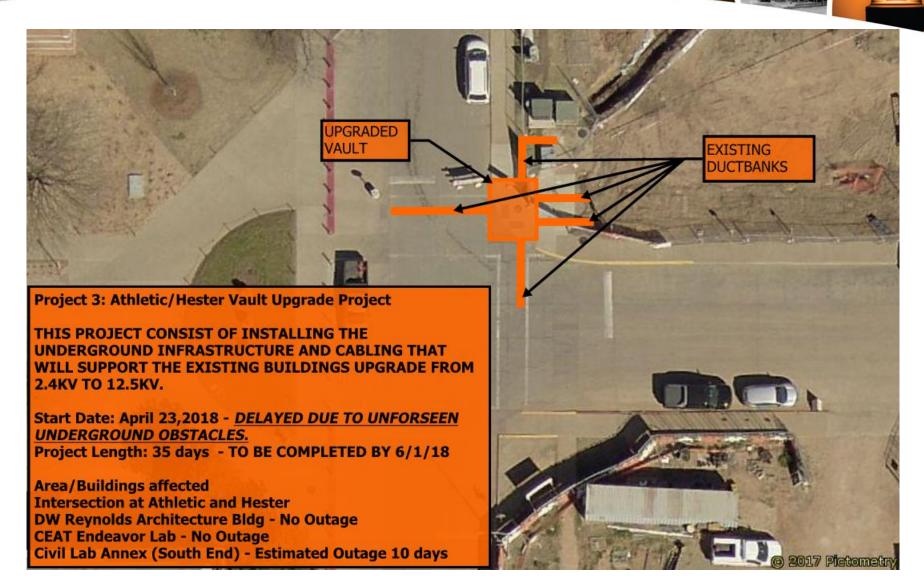


PROJECT-2 Architecture Upgrade

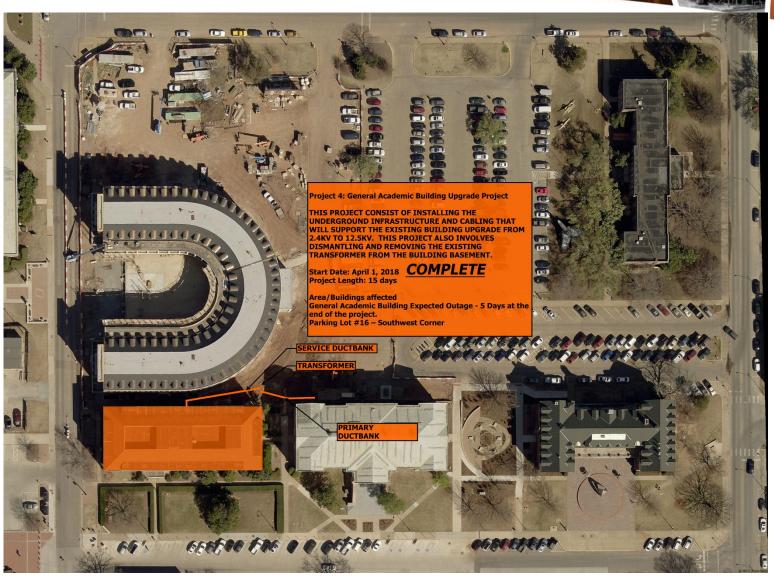




PROJECT-3 Athletic/Hester Vault Upgrade

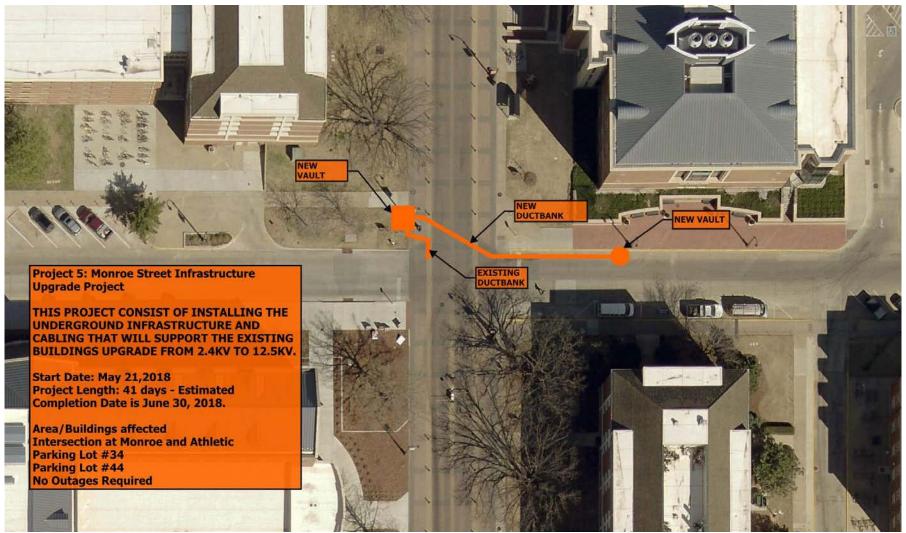


PROJECT-4 General Academic Bldg Upgrade



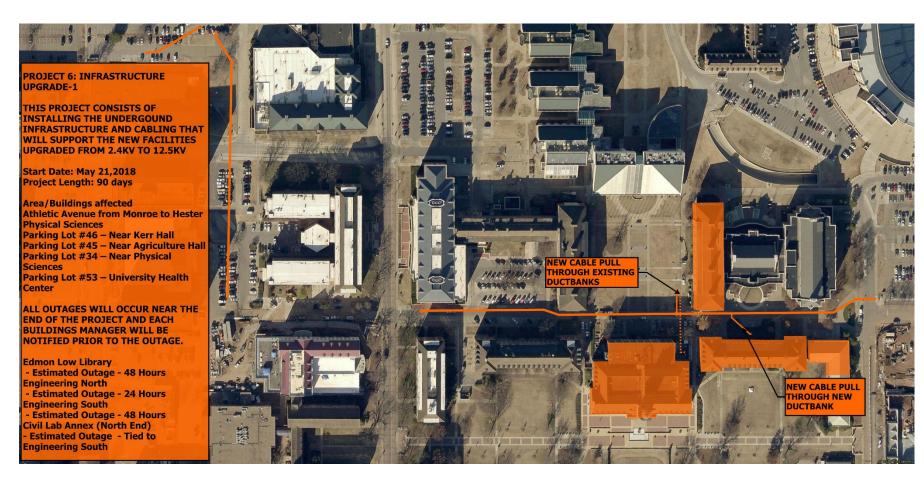
PROJECT-5 Monroe Street Crossing



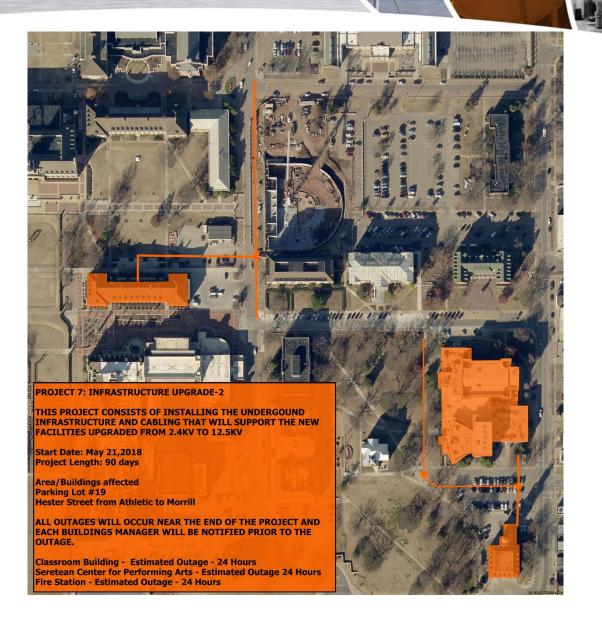


PROJECT-6 Infrastructure Upgrade-1





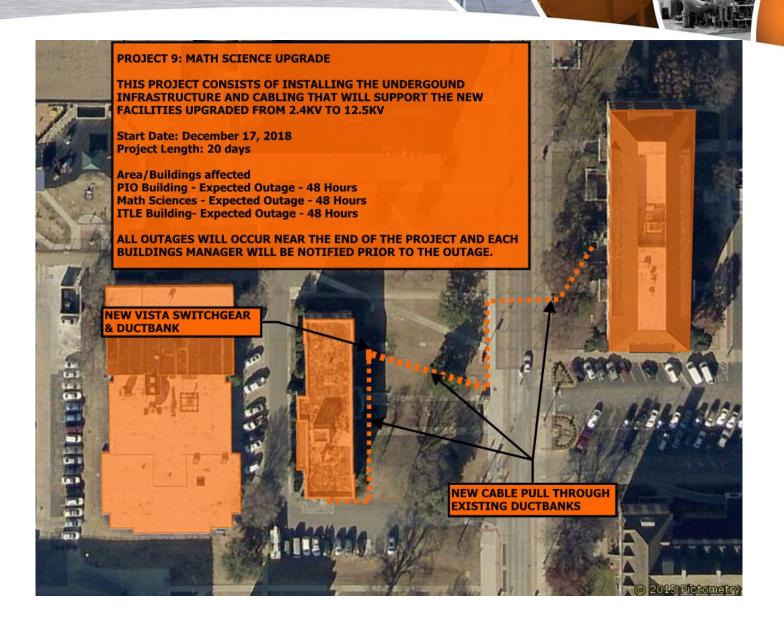
PROJECT-7 Infrastructure Upgrade-2



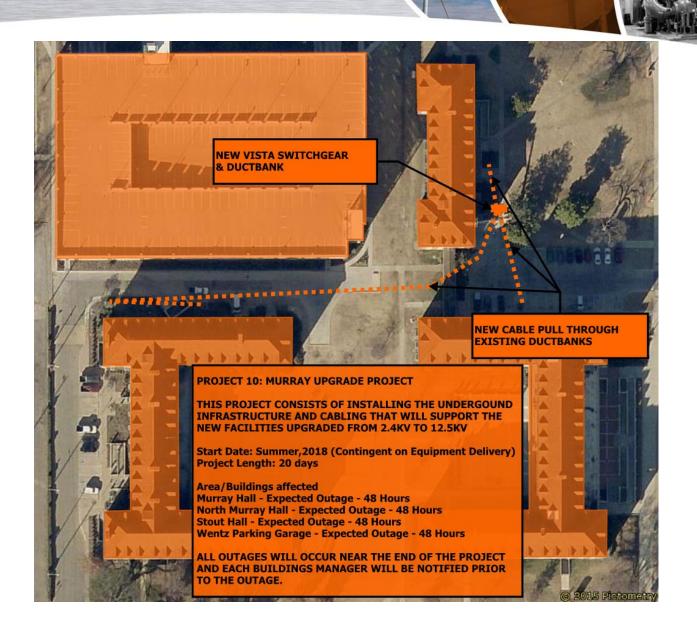
PROJECT-8 Gundersen Upgrade



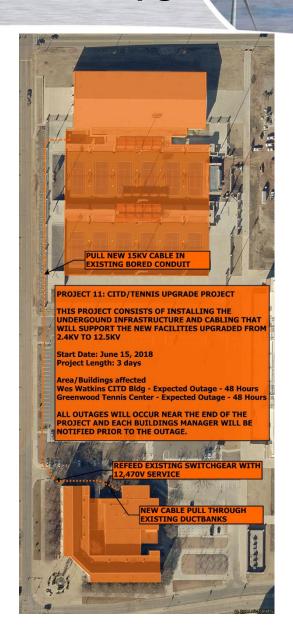
PROJECT-9 Math Science Upgrade



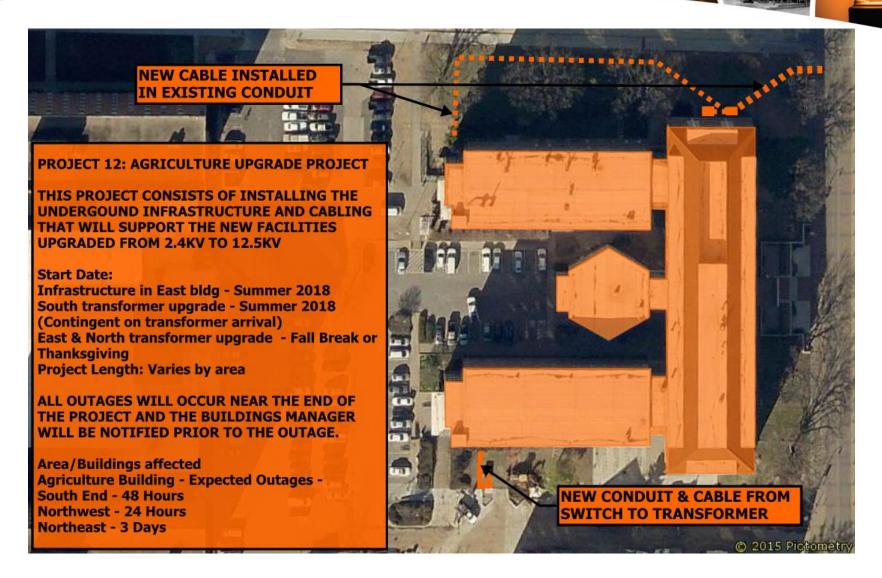
PROJECT-10 Murray Upgrade



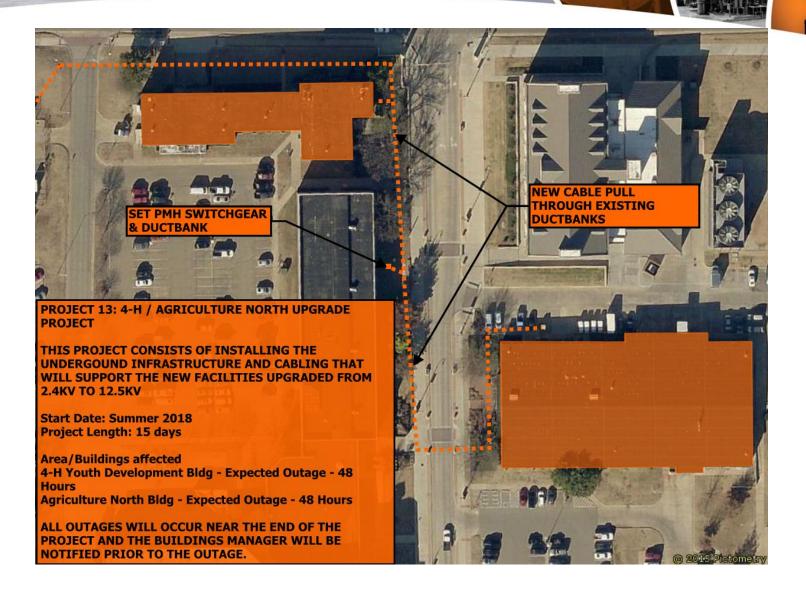
PROJECT-11 CITD/Tennis Upgrade



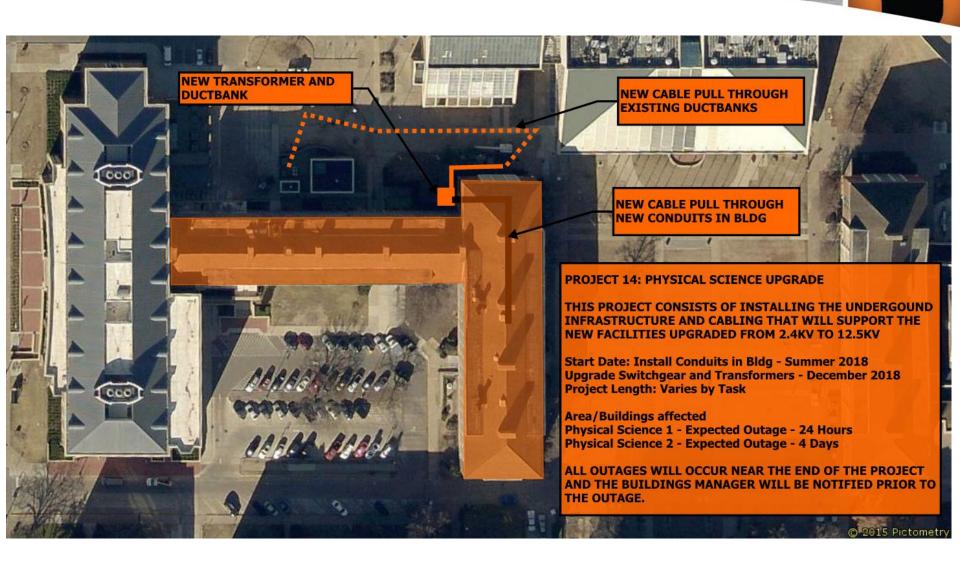
PROJECT-12 Agriculture Upgrade



PROJECT-13 4-H/Agriculture North Upgrade



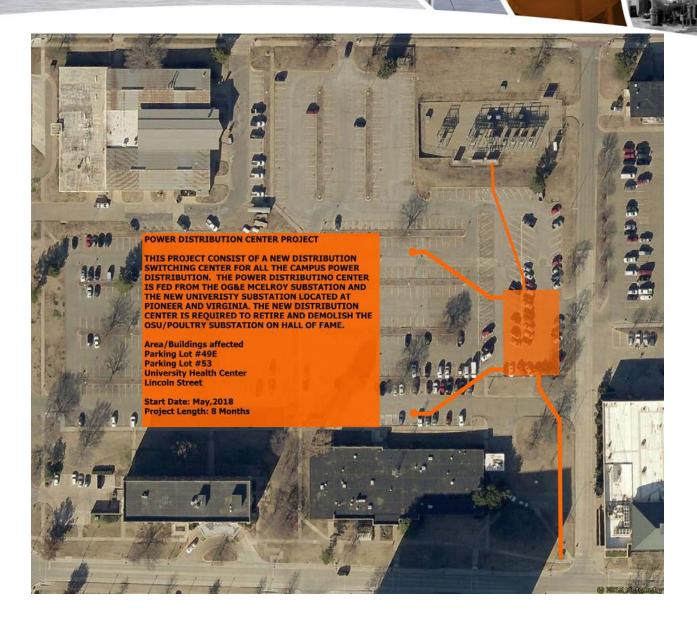
PROJECT-14 Physical Sciences Upgrade



PROJECT-15 Life Science East & West



Power Distribution Center



Phase II Overview PHASE II OUTLINE -PRIOR TO PHASE II, POWER DISTRIBUTION CENTER IS REQUIRED TO BE CONSTRUCTED. -UPON COMPLETION, POULTRY SUBSTATION CAN BE DEMOLISHED. WILL RE-USE EXISTING UNDERGOUND INFRASTRUCTURE WHERE PRACTICAL AND IDENTIFIED DURING DESIGN.

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Voltage Upgrade Phase 1 Schedule



VOLTAGE UPGRADE PHASE 1 SCHEDULE

3/16/2018 Project Name	Construction		1st Qfr.			2nd Qtr.			3rd Qtr.			4th Qtr.			1st Qtr.		
	Start	Complete	- 1		м		10		1			0	N.	- 11	- 1		14
Voltage Upgrade Phase I	19-Mar-2018	15-Jan-2019															
Project #1 - Morrill	19-Mar-2018	30-Apr-2018															
Project #2 - Architecture	1-Apr-2018	1-May-2018															
Project #3 - Hester/Athletic	20-Apr-2018	16-May-2018															
Project #4 - GAB	1-Apr-2018	1-May-2018															
Project #5 - Monroe Street	21-May-2018	30-Jun-2018															
Project #6 - Infrastucture-1	21-May-2018	10-Aug-2018															
Project #7 - Infrastructure-2	21-May-2018	10-Aug-2018															
Project #8 - Gundersen	1-Jul-2018	1-Aug-2018															
Project #9 - Math Science	15-Dec-2018	15-Jan-2019															
Project #10 - Murray	1-May-2018	1-Sep-2018															
Project #11 - CITD/Tennis	1-Jul-2018	1-Aug-2018															
Project #12 - Agriculture	1-Jul-2018	15-Aug-2018											6				
Project #13 - 4H/Ag North	20-Nov-2018	1-Dec-2018															
Project #14 - Phys Science	15-Dec-2018	15-Jan-2019						1 8									

These schedules will float



Questions

