VERSITY	PHYSICAL	BASIC INFORMATION	PROJECT TEAM
		\$80 MILLION	Owner: University of Maryland
		158,068SQFT	ARCHITECT: HDR INC.
		5 ABOVE GROUND STORIES	CM AGENCY: GILBANE INC.
1 56	SCIENCES	2 BASEMENT LEVELS	STRUCTURAL ENGINEER: HOPE FURRER LLC
		53 NEW LABORATORIES	CIVIL ENGINEER: GOLDIN AND STAFFORD LLC
		1208 DAYS CONSTRUCTION	MECHANICAL: DENVER-ELEK INC.
		5/25/2010 то 9/13/2013	ELECTRICAL: MONA ELECTRIC GROUP
RYLAS	COMPLEX	CM/AT RISK, GMP	FIRE PROTECTION: CAPITOL SPRINKLERS INC.

## **CONSTRUCTION:**

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 O PHASE TWO OF A THREE PHASE PLAN BY THE UNIVERSITY TO EXPAND THE SCIENCES.
O CLEVER USE OF A CRANE INSIDE OF THE LARGE ELLIPTICAL OPENING THROUGH ALL CONSTRUCTION.
O DEEP EXCAVATION FOR TWO-TIERED BASEMENT

THAT WILL HOUSE MICRORESEARCH LABORATORIES.



## ARCHITECTURE:

OUNIQUE "OPEN" INTERIOR CURTAIN WALL:
AN ELLIPTICAL GLASS FACADE
FOLLOWS AN ELLIPTICAL PATH
THROUGH THE INTERIOR OF THE
BUILDING.
ODESIGNED FOR NATURAL LIGHT.
OLARGE HALLWAYS FOR SOCIAL AND
ACEDEMIC GATHERINGS.
OBRIDGES THE GAP BETWEEN A TRADITIONAL
BRICK LOOK AND SHARP MODERN

GROUND LEVEL COVERED OUTDOOR AREA

ELLIPSE SECTION THROUGH OFFICE

## STRUCTURAL:

O3'6" DIAMETER CAISSON, DEEP FOUNDATION. O17" THICK TOTAL SLAB ON GRADE THICKNESS (VIBRATION CANCELLING). OPost-tensioned concrete beams and girders on all floors. O1-way concrete slab for each floor.

ELECTRICAL:

O480Y/277V, 4000A Switchgear supplies 167 panelboards with power. Odesigned peak operating load of 3230KVA. ONEW transformer to have a max load of 3750KVA. OREDUNDANT BACK-UP OF TWO 750KW diesel generators.

## MECHANICAL:

OTHREE 23,000CFM VAV AHU (TYPE 1 LABS) OTWO 48,000CFM VAV AHU (TYPE 2 LABS, UNDER GROUND) OTHREE 21,000CFM VAV AHU (UNDERFLOOR AIR SYSTEM) ODNE 13,500CFM VAV AHU (MECHANICAL BUILDING) OTWO CUSTOM, 800 TON CENTRIFUGAL WATER CHILLERS. ODNE 2-CELL 4,800GPM WATER TOWER (ROOF)

JOHN MELCHING CONSTRUCTION MANAGEMENT http://www.engr.psu.edu/ae/thesis/portfolios/2013/jcm362/

