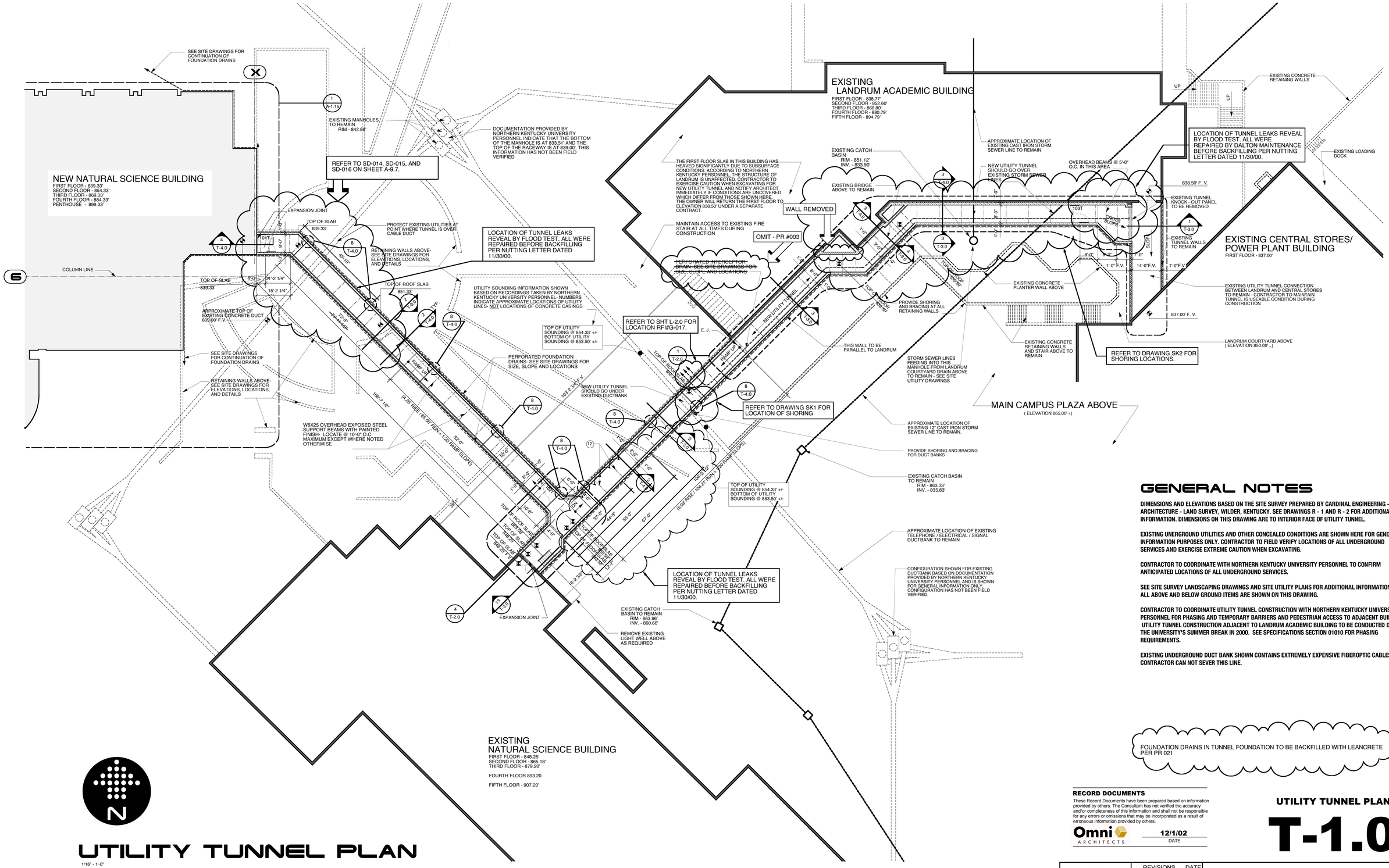


# UTILITY TUNNEL PLAN

1/16" - 1'-0"

## GENERAL NOTES

DIMENSIONS AND ELEVATIONS BASED ON THE SITE SURVEY PREPARED BY CARDINAL ENGINEERING - ARCHITECTURE - LAND SURVEY, WILDER, KENTUCKY. SEE DRAWINGS R - 1 AND R - 2 FOR ADDITIONAL INFORMATION. DIMENSIONS ON THIS DRAWING ARE TO INTERIOR FACE OF UTILITY TUNNEL.

EXISTING UNERGROUND UTILITIES AND OTHER CONCEALED CONDITIONS ARE SHOWN HERE FOR GENERAL INFORMATION PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL UNDERGROUND SERVICES AND EXERCISE EXTREME CAUTION WHEN EXCAVATING.

CONTRACTOR TO COORDINATE WITH NORTHERN KENTUCKY UNIVERSITY PERSONNEL TO CONFIRM ANTICIPATED LOCATIONS OF ALL UNDERGROUND SERVICES.

SEE SITE SURVEY LANDSCAPING DRAWINGS AND SITE UTILITY PLANS FOR ADDITIONAL INFORMATION. NOT ALL ABOVE AND BELOW GROUND ITEMS ARE SHOWN ON THIS DRAWING.

CONTRACTOR TO COORDINATE UTILITY TUNNEL CONSTRUCTION WITH NORTHERN KENTUCKY UNIVERSITY PERSONNEL FOR PHASING AND TEMPORARY BARRIERS AND PEDESTRIAN ACCESS TO ADJACENT BUILDINGS. UTILITY TUNNEL CONSTRUCTION ADJACENT TO LANDRUM ACADEMIC BUILDING TO BE CONDUCTED DURING THE UNIVERSITY'S SUMMER BREAK IN 2000. SEE SPECIFICATIONS SECTION 01010 FOR PHASING REQUIREMENTS.

EXISTING UNDERGROUND DUCT BANK SHOWN CONTAINS EXTREMELY EXPENSIVE FIBEROPTIC CABLES. CONTRACTOR CAN NOT SEVER THIS LINE.

FOUNDATION DRAINS IN TUNNEL FOUNDATION TO BE BACKFILLED WITH LEANCRETE PER PR 021

**RECORD DOCUMENTS**

These Record Documents have been prepared based on information provided by others. The Consultant has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions that may be incorporated as a result of erroneous information provided by others.

Omni ARCHITECTS — 12/1/02 DATE

## UTILITY TUNNEL PLAN

# T-1.0

1. STRUCTURAL CONCRETE FOUNDATION - SEE STRUCTURAL DRAWINGS FOR DIMENSIONS, BEARING POINTS AND REINFORCING
2. STRUCTURAL CONCRETE SLAB - SEE STRUCTURAL DRAWINGS FOR DIMENSIONS, REINFORCING, AND ENGINEERED FILL
3. EXPOSED CAST-IN-PLACE CONCRETE SURFACE - DO NOT PAINT
4. EXPOSED CAST-IN-PLACE CONCRETE SURFACE BEYOND
5. EXPOSED CAST-IN-PLACE CONCRETE WEARING SLAB OVER RIGID INSULATION OVER MEMBRANE FLASHING OVER STRUCTURAL CONCRETE SLAB
6. LIGHTWEIGHT CONCRETE TOPPING OVER STRUCTURAL CONCRETE SLAB - SLOPE AT 1/4" PER FOOT TO DRAIN AS SHOWN ON ROOF PLAN
7. EXPOSED CAST-IN-PLACE CONCRETE WITH ARCHITECTURAL FINISH AND RUSTICATION JOINTS
8. CONCRETE REVEAL FOR SURFACE-MOUNTED LIGHT FIXTURE
9. CONCRETE MASONRY UNITS WITH HORIZONTAL JOINT REINFORCING AT 16" ON CENTER VERTICALLY - SEE FINISH SCHEDULE FOR FINISH
10. EXPOSED STEEL STRUCTURE WITH INTUMESCENT PAINTED FINISH - SEE STRUCTURAL DRAWINGS FOR SIZE AND DIMENSIONS
11. STEEL STRUCTURE - SEE STRUCTURAL DRAWINGS FOR SIZE AND DIMENSIONS
12. EXPOSED STEEL STRUCTURE WITH PAINTED FINISH - SEE STRUCTURAL DRAWINGS FOR SIZE AND DIMENSIONS
13. METAL ROOF DECK - SEE STRUCTURAL DRAWINGS FOR DEPTH AND GAUGE
14. STEEL EDGE ANGLE - SEE STRUCTURAL DRAWINGS FOR SIZE AND DIMENSIONS
15. 16 GAUGE COLD-FORMED METAL STUDS AT 16" ON CENTER
16. 16 GAUGE COLD-FORMED METAL FRAMING AT 16" ON CENTER
17. SECURE EACH COLD-FORMED FRAMING MEMBER TO STEEL STRUCTURE WITH SLIP JOINT FOR DEFLECTION
18. SLOPED CONCRETE SURFACE
19. PROVIDE DOUBLE STUDS AT THIS LOCATION, TYPICAL
20. METAL STUDS AT 16" ON CENTER
21. METAL FRAMING AT 16" ON CENTER
22. EXTERIOR ALUMINUM GUARDRAIL WITH BLACK FLUOROPOLYMER FINISH - 42" HIGH
23. METAL HANDRAIL / GUARDRAIL WITH PAINTED FINISH
24. HOLLOW METAL DOOR AND FRAME WITH PAINTED FINISH
25. FIRE-TREATED WOOD BLOCKING
26. SHIM AS REQUIRED AT PERIMETER
27. SOLID SURFACING WINDOW SILL
28. APPROXIMATE FINISH GRADE - SEE SITE DRAWINGS FOR ELEVATION
30. AIR INFILTRATION BARRIER WITH TAPED JOINTS OVER 1/2" GLASSMAT-FACED EXTERIOR GYPSUM SHEATHING ON EXTERIOR FACE OF WALL AND 6 MIL VAPOR BARRIER ON INTERIOR FACE OF WALL - FILL WALL CAVITY WITH BATT INSULATION
31. BACKER ROD AND SEALANT
32. BACKER ROD AND SEALANT IN COMPOSITE ALUMINUM PANEL JOINTS IN THIS LOCATION ONLY
33. COMPOSITE ALUMINUM SPANDREL PANEL WITH FINISH TO MATCH SURROUNDING FRAME
34. COMPOSITE ALUMINUM PANEL SYSTEM WITH FLUOROPOLYMER FINISH (COLOR SELECTED BY ARCHITECT) WITH CONCEALED FASTENERS, ALUMINUM MOUNTING TRACKS, AND SHIMS AS REQUIRED - EACH PANEL TO HAVE FLASHING AND WEEP HOLES - DO NOT CAULK OR GASKET JOINTS BETWEEN PANELS
35. COMPOSITE ALUMINUM PANEL SYSTEM BEYOND
36. COMPOSITE ALUMINUM PANEL COPING WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
37. EXTRUDED ALUMINUM COPING WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
38. EXTRUDED ALUMINUM FASCIA/ROOF EDGE WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
39. HOT-ASPHALT-APPLIED MULTI-PLY SBS MODIFIED BITUMEN ROOFING SYSTEM OVER POLYISOCYANURATE INSULATION BOARD - INSULATION TO BE APPROVED BY ROOFING MANUFACTURER - PROVIDE PROTECTION BOARD WHERE REQUIRED BY ROOFING MANUFACTURER
40. SLOPE RIGID INSULATION BOARD AT 1/4" PER FOOT TO DRAIN AS SHOWN ON ROOF PLAN - R-20 AVERAGE
41. UNIFORM THICKNESS RIGID INSULATION BOARD - R-20 MINIMUM
42. 1/2" GLASSMAT-FACED GYPSUM THERMAL BARRIER BOARD
43. THERMALLY-BROKEN ALUMINUM STOREFRONT FRAMING SYSTEM WITH BLACK FLUOROPOLYMER FINISH
44. TRANSLUCENT COMPOSITE FIBERGLASS PANELS WITH ALUMINUM FRAME WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
45. THERMALLY-BROKEN ALUMINUM STOREFRONT FRAMING SYSTEM WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
46. THERMALLY-BROKEN ALUMINUM CURTAINWALL FRAMING SYSTEM WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
47. THERMALLY-BROKEN ALUMINUM SKYLIGHT WITH FLUOROPOLYMER FINISH
48. 1" INSULATING CLEAR GLAZING WITH LOW-EMISSIVITY COATING
49. 1" INSULATING GREY TINTED GLAZING WITH LOW-EMISSIVITY COATING
50. 5/8" GYPSUM BOARD OVER VAPOR BARRIER OVER RIGID INSULATION OVER 2" METAL FURRING
51. 5/8" GYPSUM BOARD - SEE FINISH SCHEDULE FOR FINISHES AND WALL TYPE SCHEDULE FOR RATED MATERIALS
52. 5/8" GYPSUM BOARD BEYOND
53. SUSPENDED ACOUSTIC CEILING SYSTEM WITH 2'X2' PANELS - SEE FINISH SCHEDULE FOR PANEL TYPES
54. 1 1/2" TAPERED RESILIENT BASE - SEE SCHEDULE FOR TYPE
55. WALL BASE - SEE SCHEDULE FOR TYPE
56. STEEL ACOUSTIC LOUVER WITH FLUOROPOLYMER FINISH TO MATCH ALUMINUM COMPOSITE PANEL COLOR
57. LABORATORY CASEWORK - SEE ENLARGED PLANS AND ELEVATIONS FOR CONFIGURATION AND DIMENSIONS
58. LIGHTWEIGHT CONCRETE TOPPING OVER STRUCTURAL METAL DECK - SLOPE AT 1/4" PER FOOT TO DRAIN AS SHOWN ON ROOF PLAN
59. EXPOSED CONCRETE FLOOR SLAB WITH TROWEL FINISH AND CLEAR HARDENER / SEALER
60. 8" HIGH SURFACE-MOUNTED CAST ALUMINUM LETTERS / NUMBERS
61. COMPOSITE DRAINAGE / PROTECTION BOARD WITH INTEGRAL FILTER FABRIC OVER RUBBERIZED ASPHALT WATERPROOFING MEMBRANE - PROVIDE FOUNDATION DRAINS AS SHOWN
62. 1" DEEP REVEAL IN CONCRETE SURFACE
63. 5/8" GYPSUM BOARD OVER METAL FRAMING AT 16" ON CENTER
64. STRUCTURAL CONCRETE FRAME AND SLAB - SEE STRUCTURAL DRAWINGS FOR DIMENSIONS AND REINFORCING
65. EXPOSED STEEL STAIR SYSTEM WITH PAINTED FINISH - FILL STEEL TREAD PANS WITH CONCRETE AND PROVIDE 1 1/2" DIAMETER PIPE HANDRAILS AND GUARDRAILS AT 42" ABOVE FLOOR
66. FLOOR FINISH - SEE ROOM FINISH SCHEDULE FOR TYPE

MICHAEL W. JACOBS — REGISTERED NO. 2368 — COMMONWEALTH OF KENTUCKY — ARCHITECT

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**NORTHERN KENTUCKY UNIVERSITY**
**NATURAL SCIENCE BUILDING**

RECORD DATE

DRAWN BY: EZ, JB, SEH
CHECKED BY: MWJ
A & E FILE Nº
DATE: 6/99

COMMONWEALTH OF KENTUCKY
FINANCE AND ADMINISTRATION CABINET
DIVISION OF ENGINEERING
DEPARTMENT FOR FACILITIES MANAGEMENT
FRANKFORT, KENTUCKY

Omni Architects

DRAWING Nº: T-1.0
REVIEWED DIV. OF ENGR.
ENGR. FILE Nº: I-111

AGENCY AUTHORIZED AGENT — DATE
DIVISION OF ENGINEERING — DATE
APPROVED FOR PROGRAM CONCEPT ONLY
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