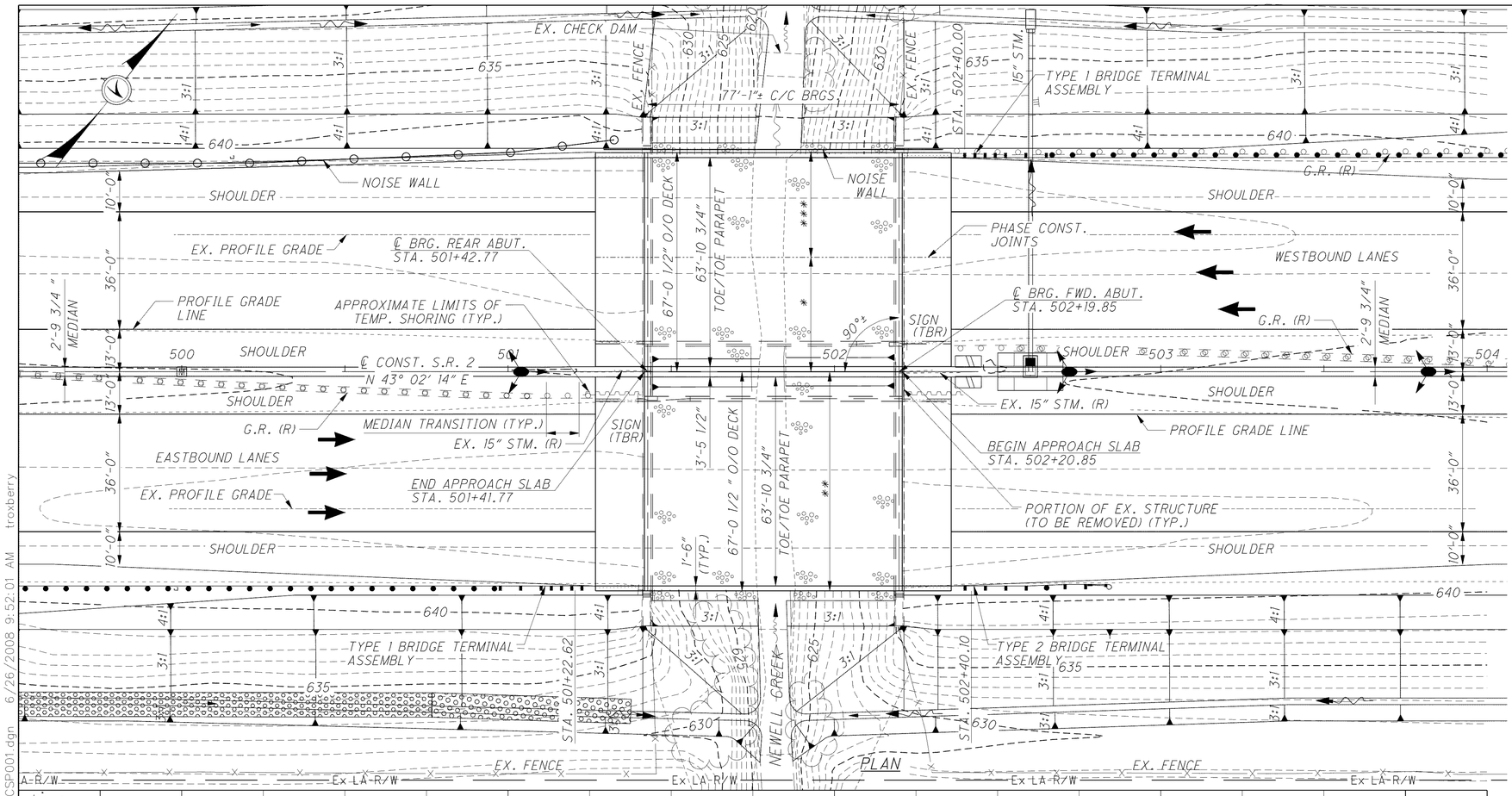

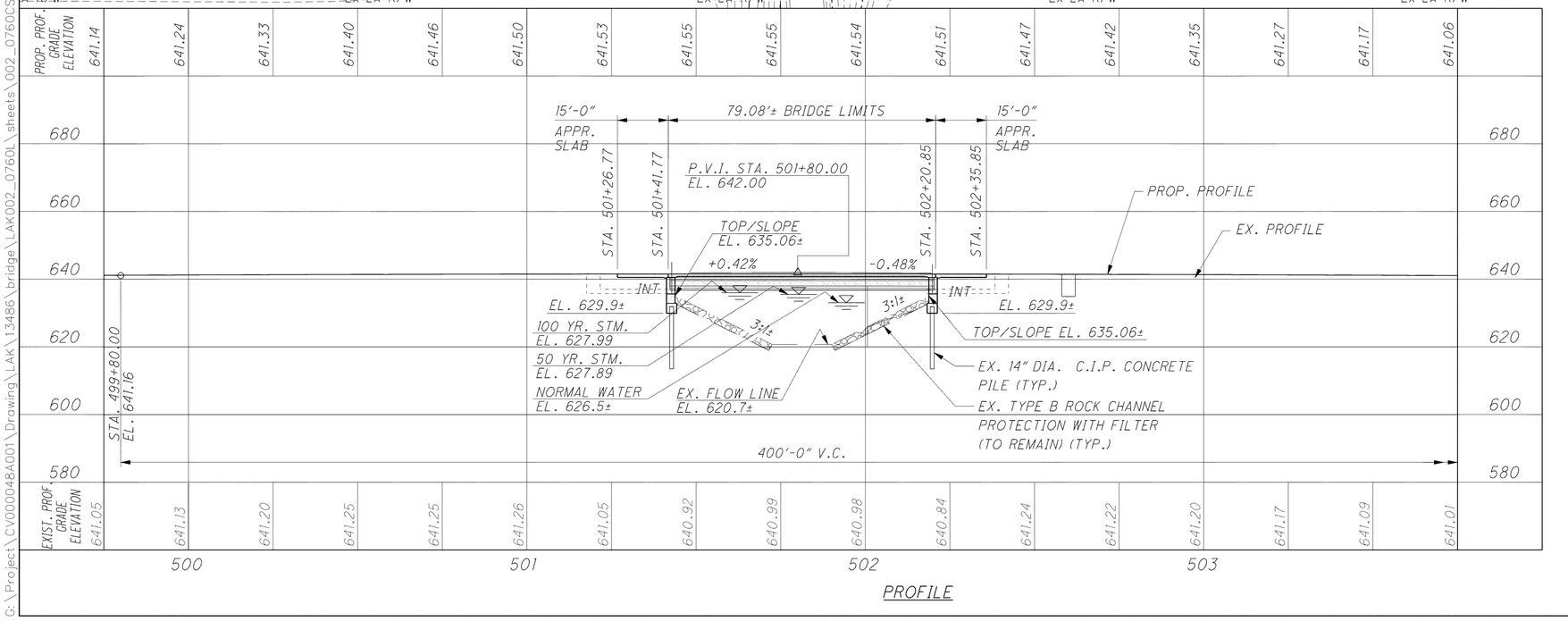

PROFILE

BENCHMARK DATA

BM-25 STA. 497+93.00, ELEV. 638.03, OFFSET 192.21' RT.
BM-26 STA. 502+94.75, ELEV. 637.80, OFFSET 233.84' RT.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN AND PROFILE SHEET 296 OF 1679 .

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
2010 ADT = 68,050 2010 ADTT = 3,400
2030 ADT = 81,500 2030 ADTT = 4,100
DIRECTIONAL DISTRIBUTION = 70/30

HYDRAULIC DATA

DRAINAGE AREA = 3.82± SQ. MILES
Q (50) = 1,422 CFS V (50) = 8.70 FPS EL. 627.89
Q (100) = 1,703 CFS V (100) = 10.81 FPS EL. 627.99
STRUCTURE CLEARS THE 50 YEAR DESIGN HW BY 8.6± FEET.

LEGEND

* - STAGE I, PHASE B CONSTRUCTION (35'-0")
** - STAGE I, PHASE C CONSTRUCTION (67'-0 1/2 ")
*** - STAGE I, PHASE D CONSTRUCTION (32'-0 1/2 ")

FOR LIST OF ABBREVIATIONS SEE SHEET 4 | 25 .

EXISTING STRUCTURES

TYPE: SINGLE-SPAN PRESTRESSED CONCRETE I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK ON REINFORCED CONCRETE INTEGRAL ABUTMENTS ON CONCRETE PILES
SPAN: 77'-1"± C/C BEARING
ROADWAY: TWO AT 56'-5 1/4"± TOE/TOE PARAPET
LOADING: MS18 AND ALTERNATE MILITARY LOADING
SKEW: NONE
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-81M, 15'-0"± LONG
ALIGNMENT: TANGENT
CROWN: .0156'±/FT.
DATE BUILT: 1997
STRUCTURE FILE NUMBER: 4300912(L) / 4300920(R)

PROPOSED STRUCTURES

PROPOSED WORK: ADD NEW PRESTRESSED CONCRETE I-BEAM WITH NEW AND WIDENED CONCRETE DECK ON MODIFIED CONCRETE INTEGRAL ABUTMENTS
TYPE: SINGLE-SPAN PRESTRESSED CONCRETE I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK ON REINFORCED CONCRETE INTEGRAL ABUTMENTS ON CONCRETE PILES
SPAN: 77'-1"± C/C BEARING
ROADWAY: TWO AT 63'-10 3/4 " TOE/TOE PARAPETS
LOADING: HS20 AND ALTERNATE MILITARY, FWS=60 PSF
SKEW: NONE
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-81, 15'-0" LONG
ALIGNMENT: TANGENT
CROWN: 0.016'/FT.
COORDINATES: LATITUDE 41° 40' 17" W LONGITUDE 81° 22' 11" N

DESIGN AGENCY
ARCADIS
ARCADIS U.S., Inc.
1100 Superior Avenue, Suite 1250 Cleveland, Ohio 44114
Tel: 216-781-6177 Fax: 216-781-6243 www.arcadis-us.com

DESIGNED	DRAWN	REVIEWED	DATE
SKS	MPB	CMD/FJG	12/07
CHECKED	REVISED	STRUCTURE FILE NUMBER	
RBB		4300912(L) 4300920(R)	

LAKE COUNTY
STA. 501+41.77
TO STA. 502+20.85

SITE PLAN
BRIDGE NO. LAK-2-0760 L&R
STATE ROUTE 2 OVER NEWELL CREEK

LAK-2-3.32
PID 13486

1 | 25

1594
1679

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