

MAKE SURE AND SIGN SIGN-IN SHEET



TDOT

Department of
Transportation

CMGC07

I-55/SR-14 Bridge Bundle

8-15-2023

CMGC07 TEAM

- TDOT Manager of Region 4 Alternative Delivery
 - Steve Sellers, P.E.
- Roadway Design Consultant – Kimely Horn, Inc.
 - Heather Lewis, P.E
 - Drake Danley, P.E.
- Structural Engineer – TDOT
 - Dan Shike, P.E.
 - Jonathan Shoulders, P.E.



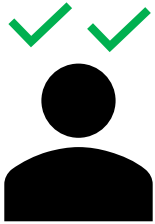
CMGC07- I-55/SR-14 Bridge Bundle

- Scope
- Schedule
- Budget



CM/GC Fundamentals

ADVANTAGES



Owner Control



Fewer Change Orders



Contractor Input

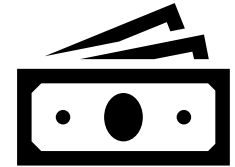


Risk Balance

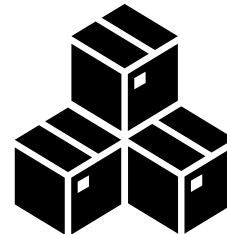
DISADVANTAGES



Not Low-Bid



Increased Expense



Multiple Design Packages



Risk of Unsuccessful Negotiations

CM/GC Process – Pre-Construction

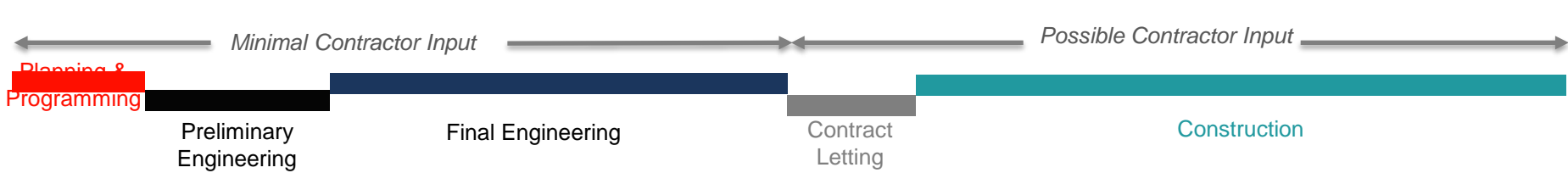
Key Elements

- Existing Site Condition & Project Scoping
- Partnering
- Collaborative Design
- Constructability and Innovation Assessment
- Schedule & Risk Assessment

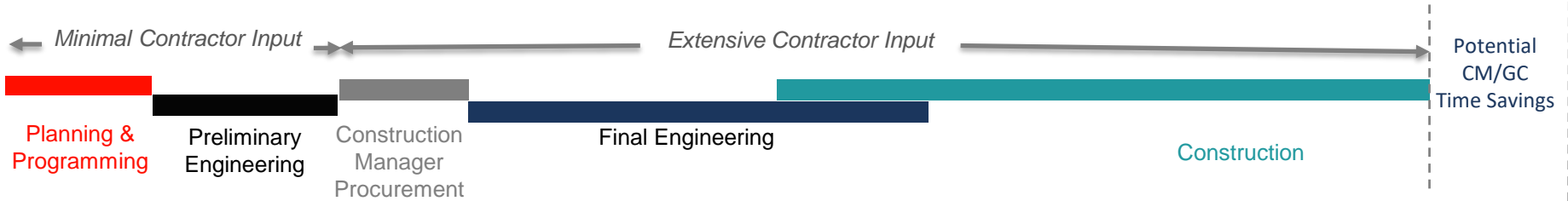


CM/GC Fundamentals

Design-Bid-Build (Traditional TDOT)



CM/GC



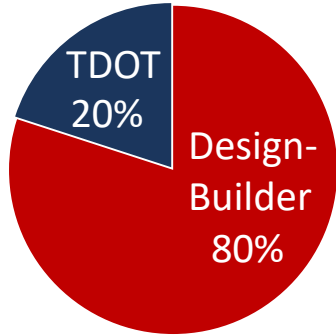
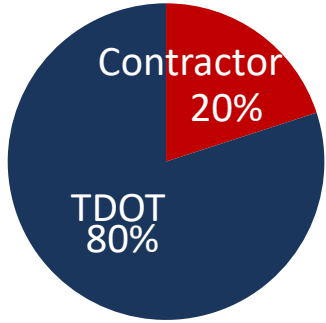
CM/GC Fundamentals

Design-Bid-Build

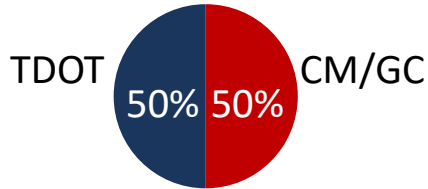
Design-Build

Owner (TDOT)

Contractor



CM/GC



Everything Else

Share Risk with Owner

Provide Expertise During Design

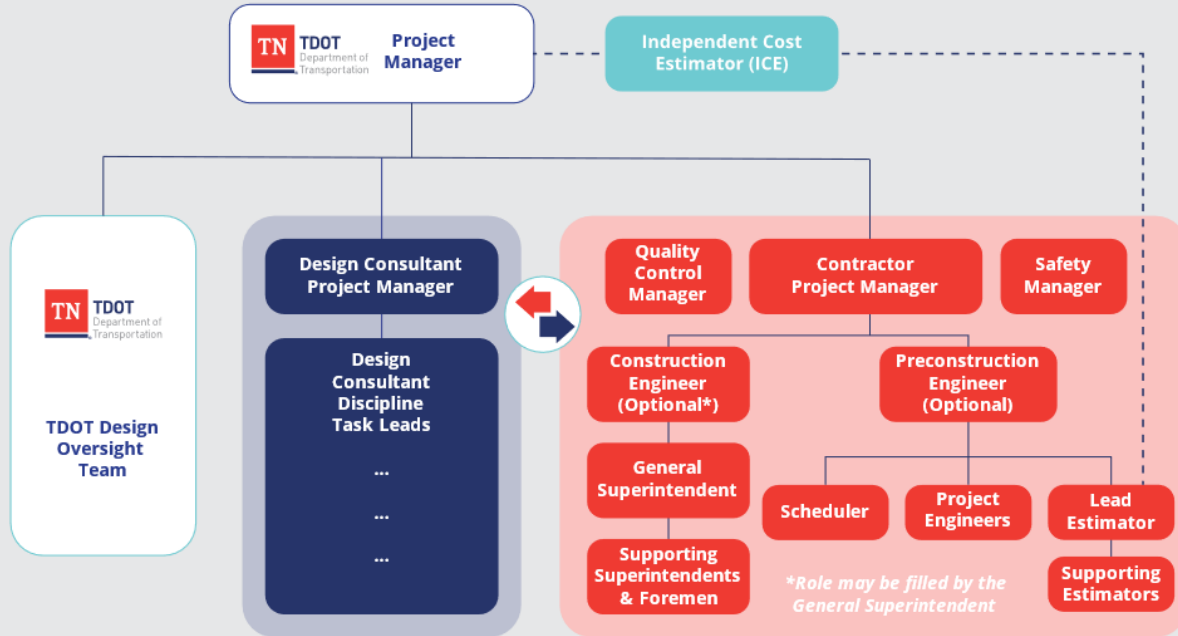
Construct the Project

Management of Subs

RISK

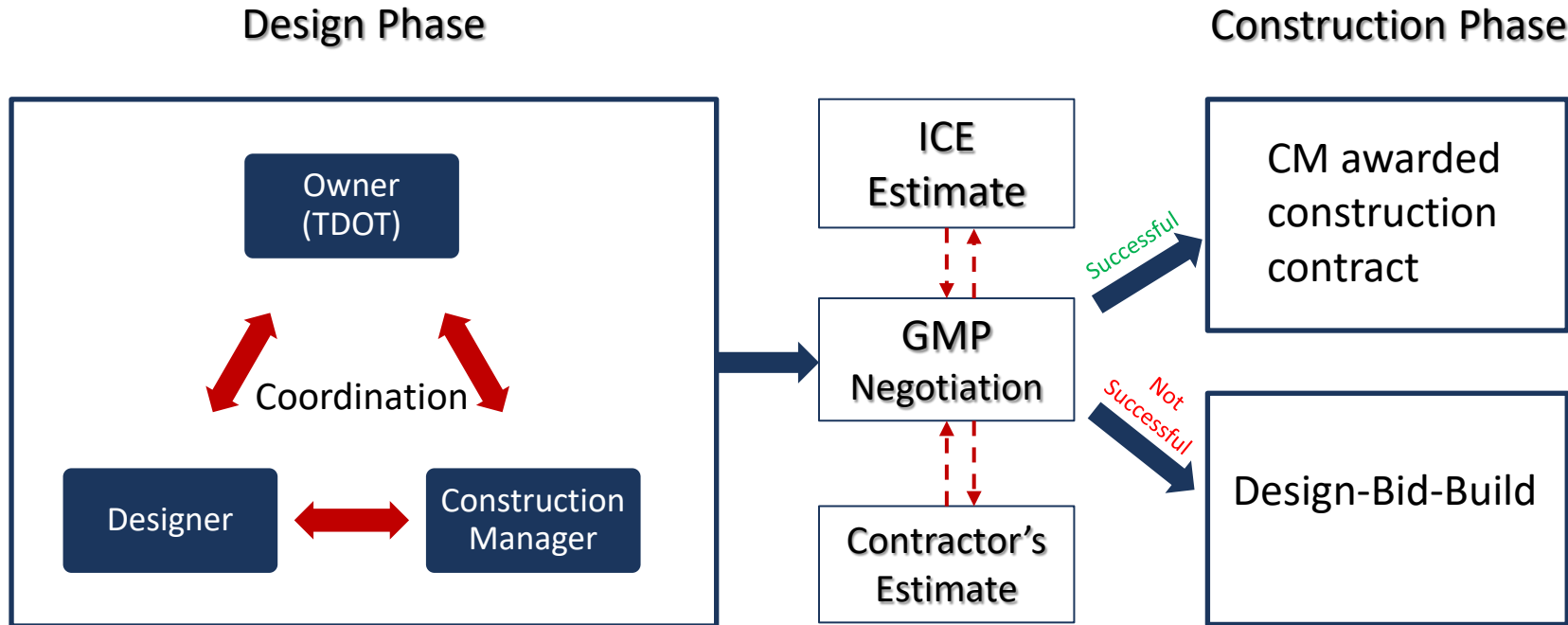
CM/GC Process - Pre-Construction

Typical CM/GC Preconstruction Organization Chart



CM/GC Process - Overview

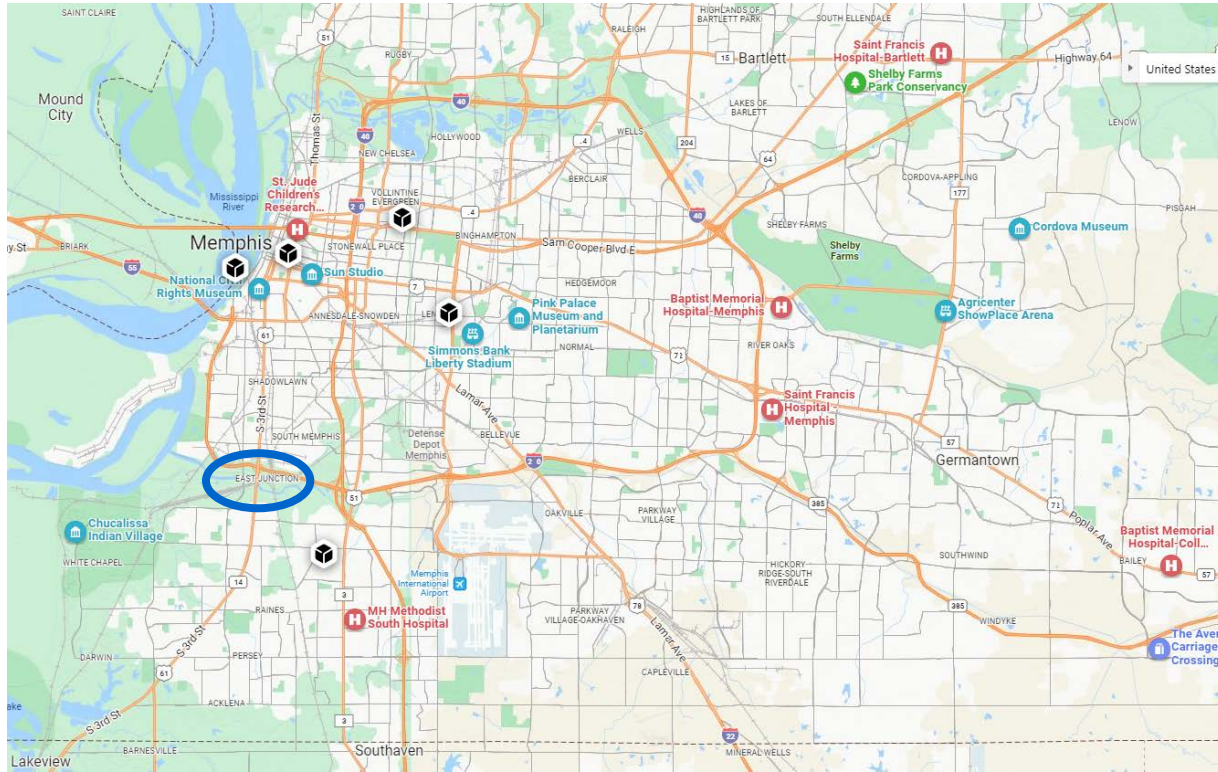
What is CM/GC?



CMGC07
I-55/SR-14
Project
Overview



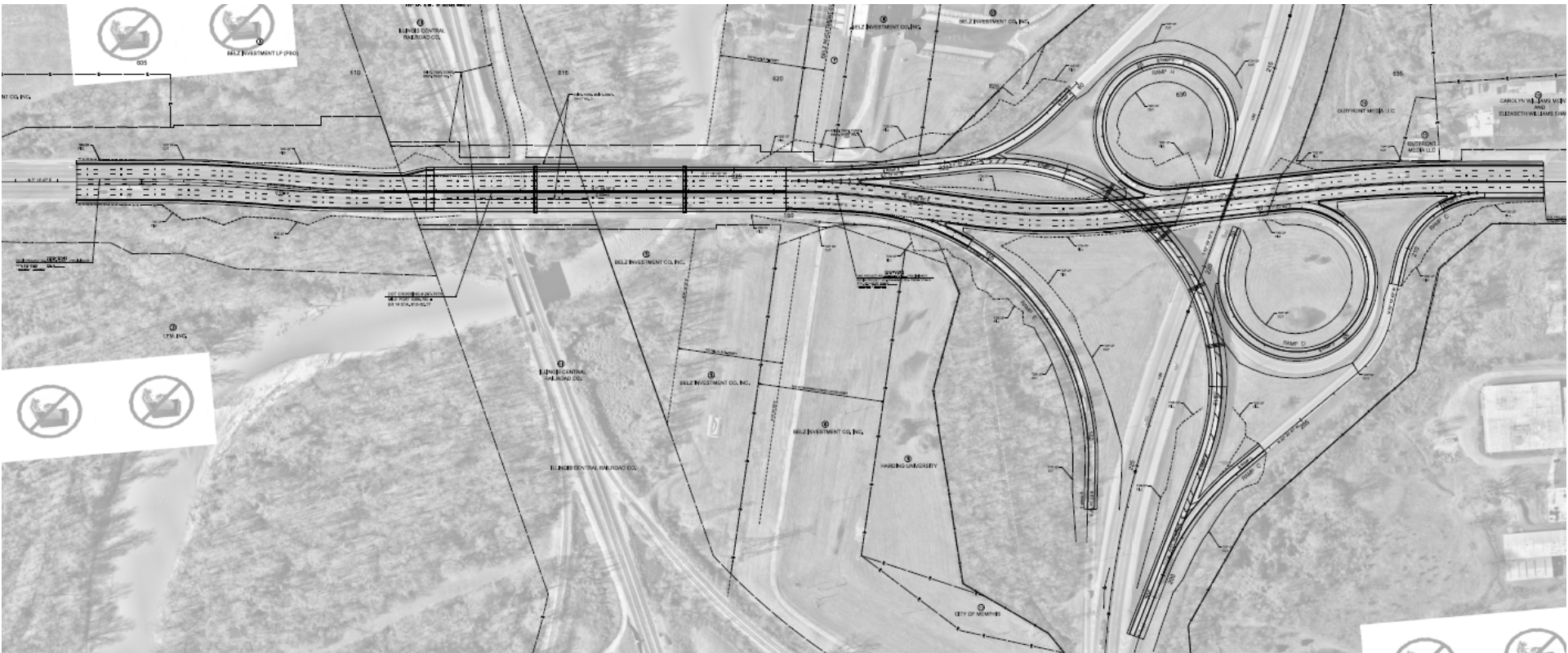
Location – Memphis, TN Shelby County



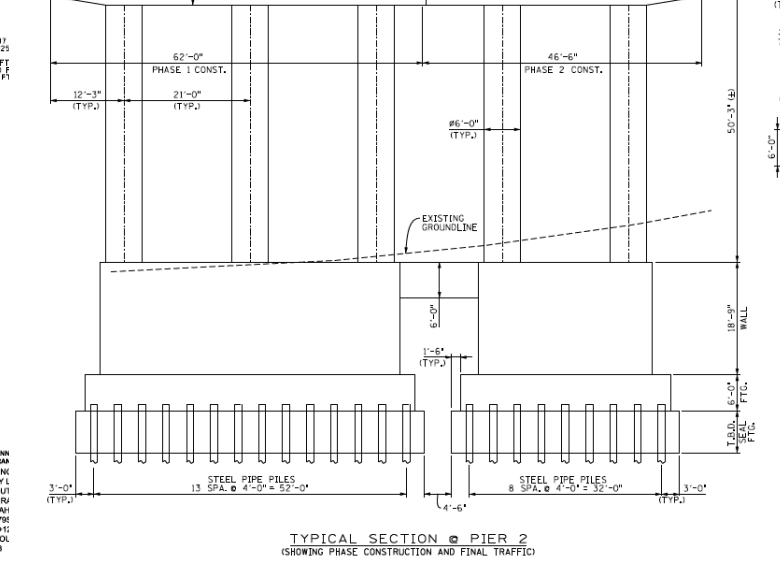
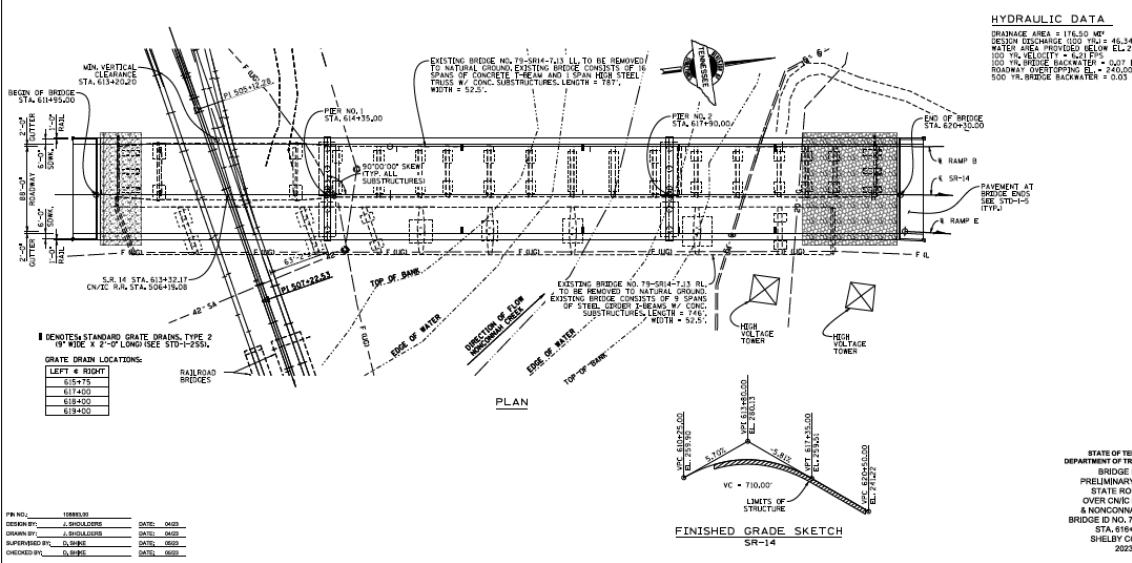
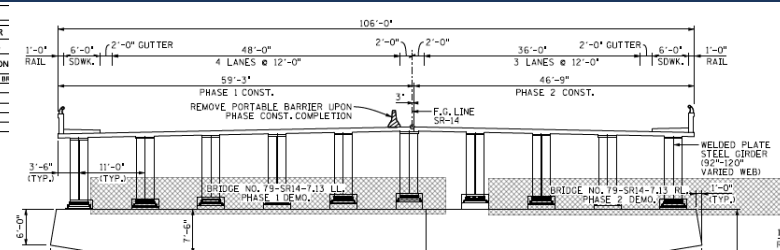
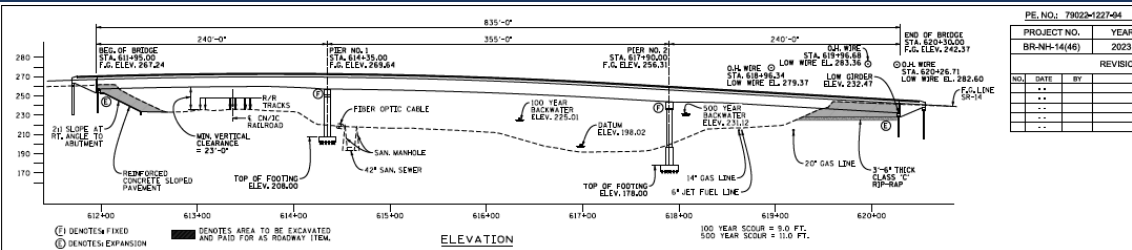
Location – Shelby County



Plan Roll Plot



Scope – Nonconnah Creek Bridge



PR NO. 188880
 DESIGN BY: J. B. CALDWELL DATE: 04/23
 DRAWN BY: J. B. CALDWELL DATE: 04/23
 SUPERSEDED BY: 6/2/2025 DATE: 05/23
 CHECKED BY: G. B. BIRSE DATE: 05/23

STATE OF TENN
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. PRELIMINARY I
 STATE ROUTE OVER CINCINNATI & NONCONNAH
 BRIDGE ID NO. 79 STA. 615+51.4
 SHELBY CO. TN
 2023

Scope – Nonconnah Creek Bridge

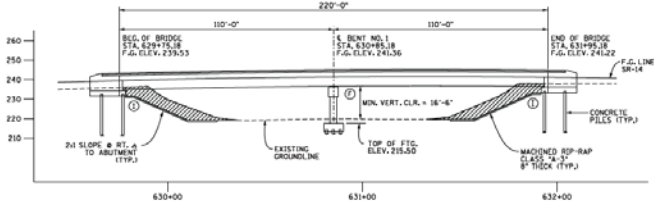
Southbound approach



Northbound approach



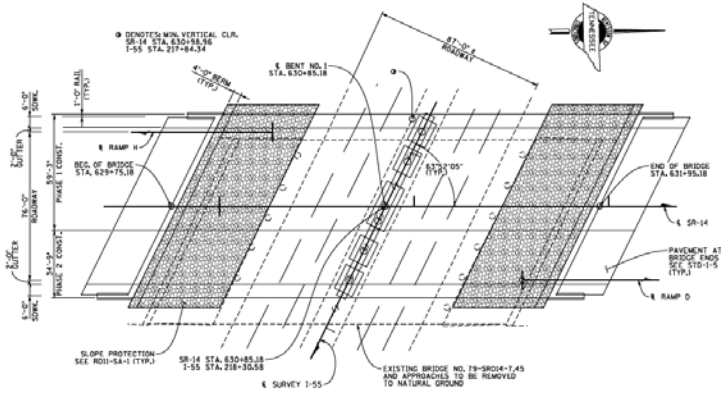
Scope – SR-14 Bridge over I-55



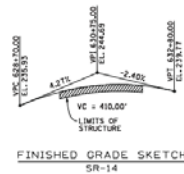
① DENOTES INTEGRAL
 ○ DENOTES FIXED

■ DENOTES ARE TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM.

ELEVATION



PLAN

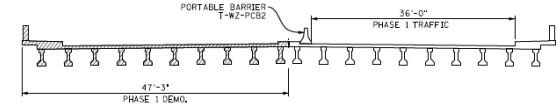


FINISHED GRADE SKETCH
 SR-14

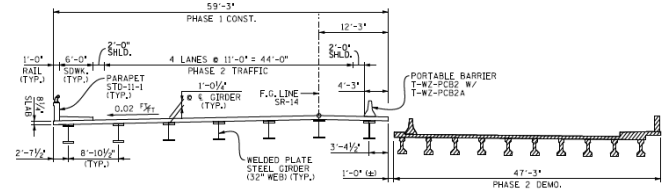
PE. NO. : 78005-1175-14

PROJECT NO.	YEAR	SHEET
SR-1-55-1(135)	2023	

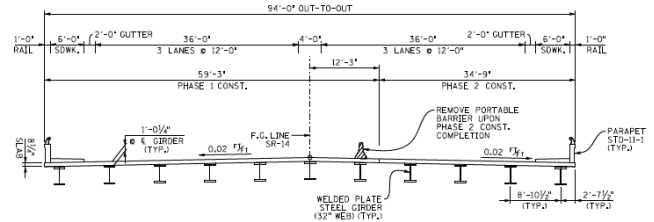
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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TYPICAL SECTION
 (SHOWING PHASE 1 DEMOLITION AND TRAFFIC)



TYPICAL SECTION
 (SHOWING PHASE 1 CONSTRUCTION AND PHASE 2 TRAFFIC)



TYPICAL SECTION
 (SHOWING PHASE 2 CONSTRUCTION AND FINAL SECTION)

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 2
 PRELIMINARY LAYOUT
 SR-14 OVER
 INTERSTATE 55
 BRIDGE ID NO. 7800500057
 STA. 630+85.18
 SHELBY COUNTY
 2023

DESIGNED BY	J. BUCKLAND	DATE	06/21
DRAWN BY	J. BUCKLAND	DATE	06/21
APPROVED BY	B. BURR	DATE	06/21
CHECKED BY	B. BURR	DATE	06/21

Scope – SR-14 Bridge over I-55

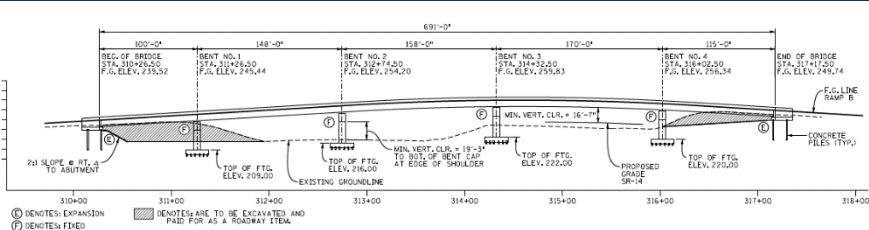


I-55 approach, looking eastbound, clearance 13'11", damage



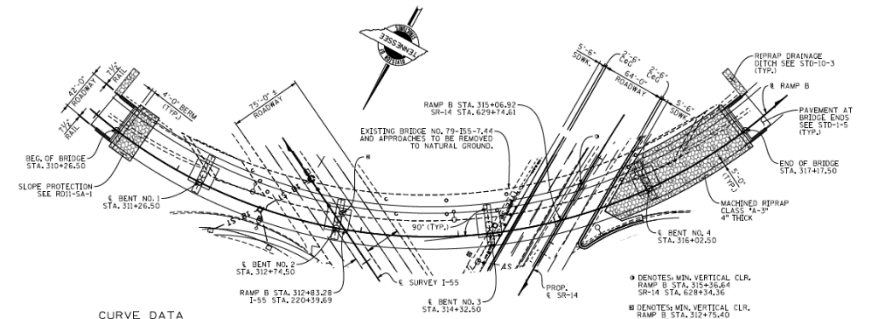
Looking southbound from bridge

Scope – I-55 Exit Ramp Bridge to SB SR-14



① DENOTES EXPANSION
② DENOTES FIXED
■ DENOTES ARE TO BE EXCAVATED AND PAID FOR AS A ROADWAY ITEM.

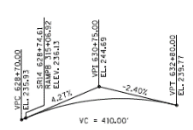
ELEVATION



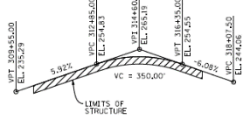
CURVE DATA

CURVE RAMP-B-PR2
PI 317+18.43
N 297,015.4745
A 754,818.9691
Δ 117°36'48" (LTI)
D 10'48"38"
R 530.00
L 1,087.95
T 875.36
SE 0.070 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 175

PLAN



FINISHED GRADE SKETCH
CLR -1.4

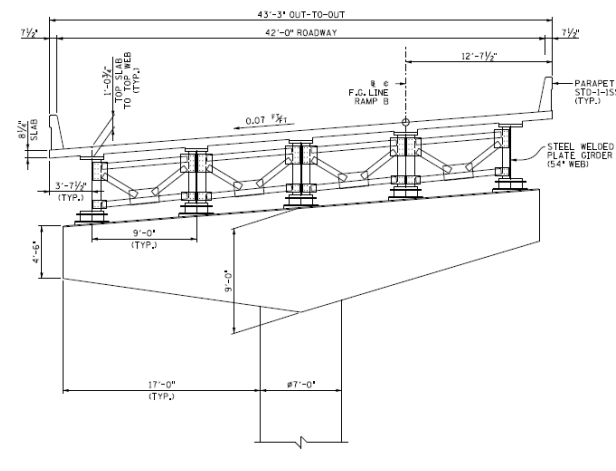


FINISHED GRADE SKETCH
RAMP B

PE. NO.: 78005-1175-14

PROJECT NO.	YEAR	SHEET NO.
BR-I-55-1(135)	2023	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
..			
..			
..			
..			



TYPICAL SECTION @ BENT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 3
PRELIMINARY LAYOUT
RAMP B OVER
INTERSTATE 55
BRIDGE ID NO. 7800505055
STA. 313+72.00
SHELBY COUNTY
2023

Scope – I-55 Exit Ramp Bridge to SB SR-14

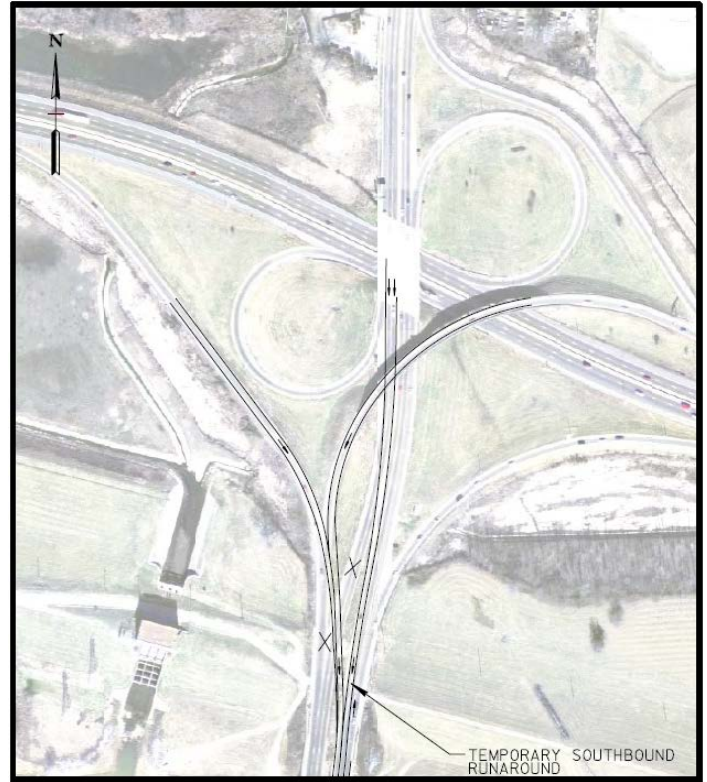
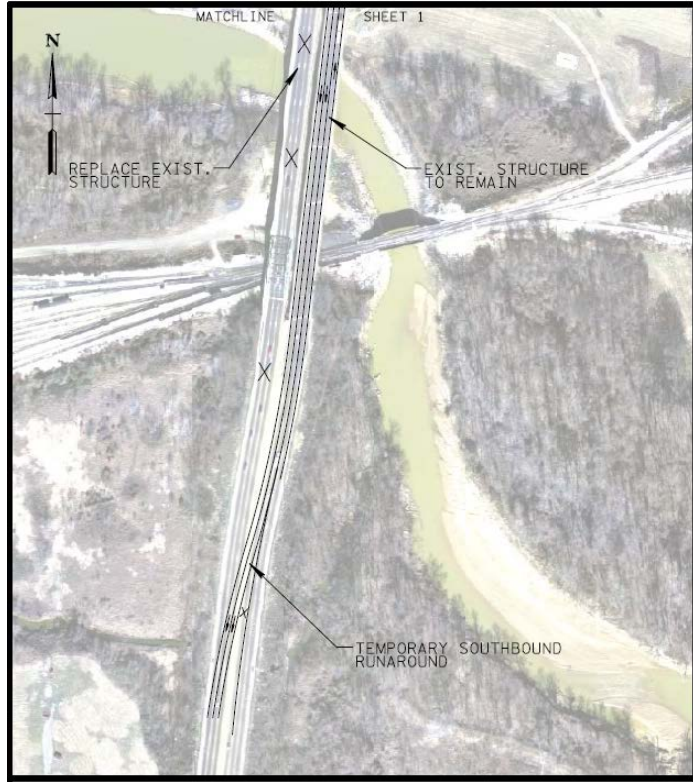


View from SR-14, looking eastbound on I-55



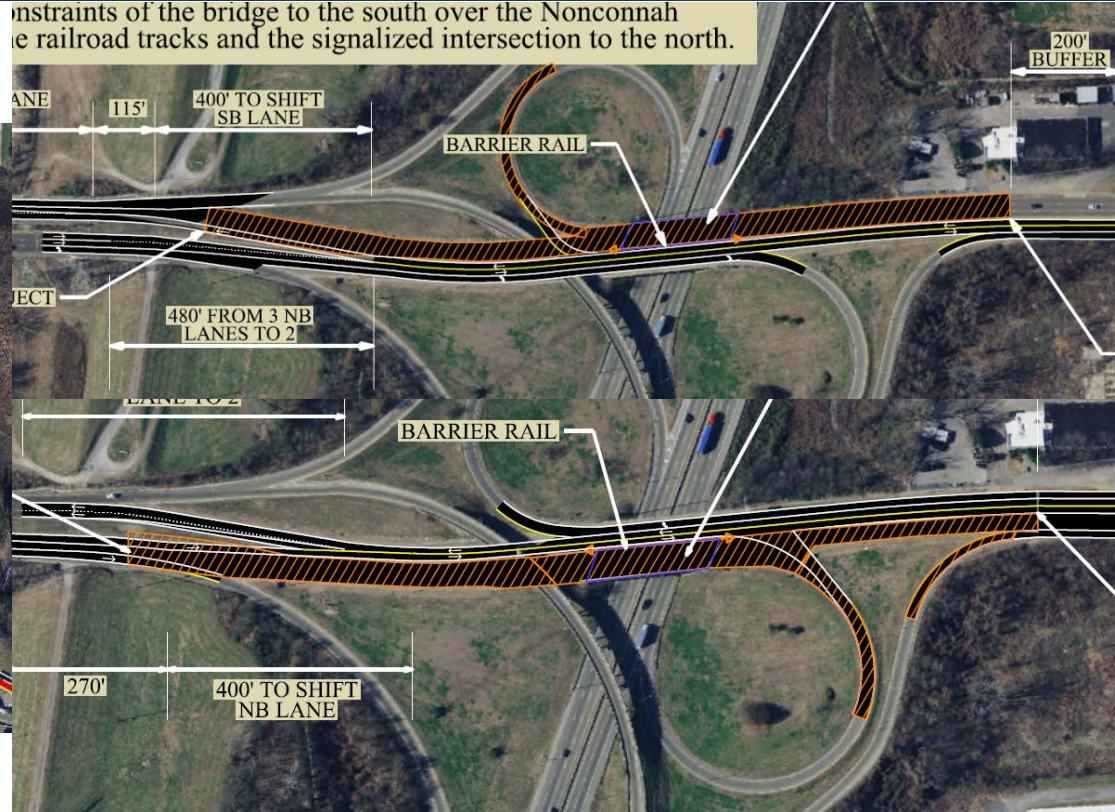
View from ramp, looking west

Scope – Phasing



Scope – Phasing

constraints of the bridge to the south over the Nonconnah
the railroad tracks and the signalized intersection to the north.



Scope – Utilities

UTILITY OWNERS

CABLE

COMCAST
3650 MOUNT MORIAH RD.
MEMPHIS, TN 38115
CONTACT: KAREN PRICE
PHONE: 901-508-0620
EMAIL: KAREN_PRICE@COMCAST.COM

TELEPHONE

BELLSOUTH TELECOMMUNICATIONS, LLC
MOR OSP PLNG & ENGR DESIGN
ACCESS - CONSTRUCTION & ENGINEERING
3138 CYPRESS RIDGE DR.
SADDY, TN 38028
CONTACT: DANIEL POTTS
PHONE: 901-488-2339
EMAIL: DP7627@ATT.COM

GAS

VALERO
772 WINGO RD.
BYHALIA, MS 38611
CONTACT: RICHARD MLLINGHAM
OFFICE PHONE: 662-895-7202
CELL PHONE: 901-848-1641
EMAIL: RICHARD.WILLINGHAM@VALERO.COM

GAS

MLGW
220 S. MAIN ST.
MEMPHIS, TN 38103
CONTACT: TOM WORD
PHONE: 901-528-4186
EMAIL: TWORD@MLGW.ORG

ELECTRIC

MLGW
220 S. MAIN ST.
MEMPHIS, TN 38103
CONTACT: TOM WORD
PHONE: 901-528-4186
EMAIL: TWORD@MLGW.ORG

WATER

MLGW
220 S. MAIN ST.
MEMPHIS, TN 38103
CONTACT: TOM WORD
PHONE: 901-528-4186
EMAIL: TWORD@MLGW.ORG

FIBER OPTIC

TRANSCORE
6250 PLEASANT VIEW RD. S*E #2
MEMPHIS, TN 38134
CONTACT: JOSHUA GILBERT
PHONE: 901-451-4099
EMAIL: JOSHUA.GILBERT@TRANSCORE.COM

FIBER OPTIC

WINDSTREAM
328 MARTHA'S WAY
HAWATHA, IA 52233
CONTACT: STEVE CLARK
PHONE: 678-747-7349

COMMUNICATIONS

VERIZON W/O COMMUNICATIONS
400 INTERNATIONAL PKWY
RICHARDSON, TX 75081
CONTACT: DAVID DICKERSON
PHONE: 615-372-2555
EMAIL: INVESTIGATIONS@VERIZON.COM

COMMUNICATIONS

ZAYO
7620 APPLING CENTER DRIVE SUITE 101A
MEMPHIS, TN 38123
CONTACT: STEVE SANDERS
OFFICE PHONE: 901-410-4366
CELL PHONE: 901-413-8653
EMAIL: STEVE.SANDERS@ZAYO.COM

SEWER

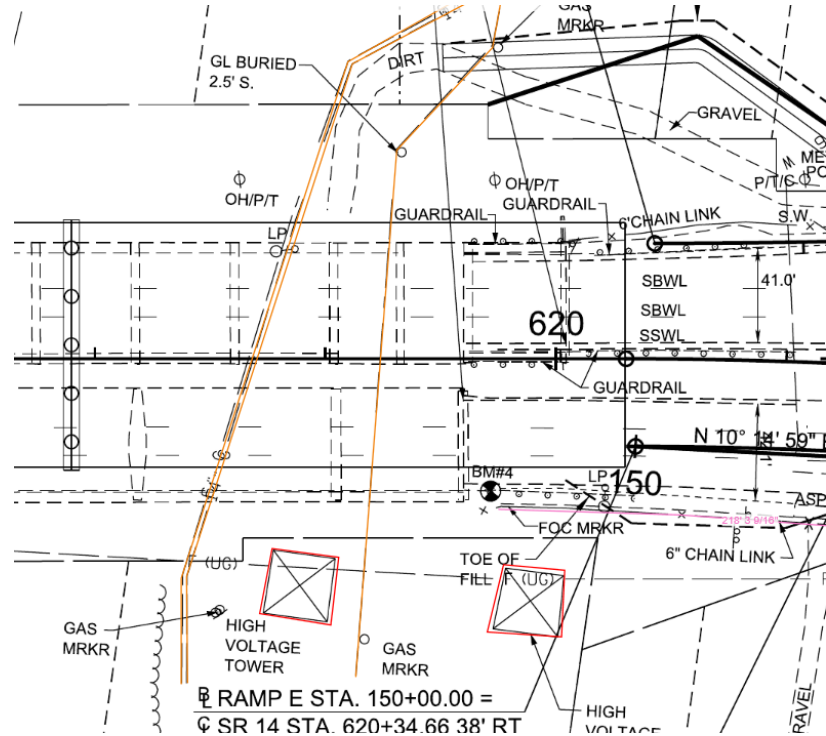
CITY OF MEMPHIS
125 N. MAIN ST., ROOM 639
MEMPHIS, TN 38103
CONTACT: FARAEDOON GALADIZE
OFFICE PHONE: 901-578-6725
CELL PHONE: 901-636-6971
EMAIL: FARAEDOON.GALADIZE@MEMPHIS.TN.GOV

TRAFFIC SIGNAL

CITY OF MEMPHIS
125 N. MAIN ST., ROOM 608
MEMPHIS, TN 38103
CONTACT: RANDALL TATUM
PHONE: 901-578-6710
EMAIL: RANDALL.TATUM@MEMPHIS.TN.GOV

RAILROAD

CNG
215 NORTH MILL ST.
JACKSON, MS 39202
CONTACT: ADAM F. SOHASKY
PHONE: 601-914-2654



Schedule - *Currently*

- Construction
 - **Start – June 1, 2025**
 - Phase 1 ~ 1 year
 - Phase 2 ~ 2 years
 - **Complete – December 31, 2028 (41 months)**

CM Procurement

- Procurement
 - **Advertise RFP – July 28**
 - *Mandatory Pre-Proposal Meeting – August 15*
 - *Last Submission of QR – September 8*
 - *Proposals Due – September 22 (Noon)*
 - *Selection Panel Interviews – October 11 (Date may change)*
 - *Selection Notification – October 27*
 - **CM Contract Execution – November 17**

Schedule - *Currently*

- Pre-Construction
 - ~~Functionals~~ – 7/3/2023 (Complete)
 - Footprint Established – March 30, 2024 (*8 months*)
 - Plan in Hand – March 30, 2025 (*12 months*)
 - ROW
 - Utilities
 - Environmental
 - PS&E – May 1, 2025 (*2 months*)

Risk Identifiers

- Project Concerns
 - Stakeholder Coordination
 - Aesthetics
 - Public Perception
 - DBE
 - ROW
 - Constraints
 - Adjacent or Concurrent Project Risks
 - Local Disruptions
 - Special Interest Groups
 - Environmental Concerns
 - Utilities
 - Railroad
 - Material Availability
 - Staging Areas
 - Traffic and Diversions

Questions?