

North Central Texas Council Of Governments

May 12, 2009

Mr. Phillip Russell  
Assistant Executive Director for Innovative Project Development  
Texas Department of Transportation  
125 East 11<sup>th</sup> Street  
Austin, TX 78701

Dear Mr. Russell:

On behalf of the Regional Transportation Council (RTC), the North Central Texas Council of Governments (NCTCOG) is submitting the IH 30 HOV/Managed Lanes project for consideration under the 2009 Pass Through Toll Finance Program. The TxDOT-Dallas District will serve as the implementing agency and will provide construction oversight for the project. Therefore, NCTCOG and TxDOT Dallas District staff have coordinated closely during the development of this application.

The RTC will fund the construction phase of this project upfront with Dallas-Fort Worth Regional Toll Revenue (RTR) funds, and is seeking reimbursement from TxDOT over a 10 year period under the Pass Through Finance Program.

The application for this project is provided in Appendix C, as suggested by TxDOT's Call for Projects Guidance. In addition, Appendix D outlines the total project cost, projected funding summary, and proposed reimbursement schedule summary. The RTC is proposing a 10 year reimbursement period to begin upon completion of construction, which is anticipated for late fiscal year 2013. As such the final payment would be in fiscal year 2022.

If you have any questions please contact Christie Jestis, Program Manager, or me at 817/695-9240.

Sincerely,

Michael Morris, P.E.  
Director of Transportation

AB:

Attachments

cc: Bill Hale, P.E., District Engineer, TxDOT Dallas District  
Mark Young, P.E., Regional Planning Engineer, TxDOT Regional Planning Office

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**Pass-Through Toll Financing Project Proposal**

**SECTION I—Applicant Information**

Applicant Name:	<u>North Central Texas COG</u>	Classification:	<u>Public (X) Private ( )</u>
Primary Contact:	<u>Christie Jestis</u>	Contact's Title:	<u>Program Manager</u>
Street Address:	<u>616 Six Flags Drive</u>	Phone No.:	<u>817/608-2338</u>
City, State, Zip:	<u>Arlington, TX, 76011</u>	Fax Number:	<u>817/640-3028</u>
Project Description:	<u>IH 30 HOV Managed Lanes</u>	Email address:	<u>cjestis@nctcog.org</u>

**SECTION II—Required Financial Information**

The following six items must be included in the proposal:

- Financial information sufficient to show the financial strength and capability of the proposer to develop and complete the project or to make all projected future payments if the proposal is for the development of a project by the department.
- The projected funding sources and amounts by fiscal year proposed for each of the project cost categories including as applicable design, development, financing, construction, maintenance, and operation (see Appendix D).
- Total amount and period of reimbursement requested and proposed pass-through payment schedule (see Appendix D).
- The type of funding and other kinds of department contributions and participation requested for the project, other than reimbursement from the pass-through toll program.
- A statement indicating the applicant's intention to toll or not to toll the project and, if tolled, the approximate date the highway will begin to be tolled.
- A statement indicating whether the applicant has or intends to designate a transportation reinvestment zone (TRZ) under Texas Transportation Code §§222.105-222.107. If applicable, provide information regarding the location and limits for the zone, and how the TRZ will be used to finance the proposed project.

**SECTION III—Required Project Information**

The following six items must be included in the proposal:

- Specific project limits and project length(s) including, if applicable, connections to other transportation facilities, (include CSJ numbers, if available and obtainable from District Office,) and a project location map.
- Existing (if applicable) and proposed typical roadway cross sections.
- Existing and projected (at new facility opening and at the end of the reimbursement period) traffic volumes (average daily traffic – ADT).
- Total estimated project cost including breakouts for preliminary engineering, environmental mitigation (if applicable), ROW, utility adjusts./relocate., construction, construction engineering, maintenance (if applicable), operations (if applicable), contingencies, indirect costs and other project related costs (see Appendix D).
- Proposed project development and implementation schedule including estimated date when total project will be open to traffic.
- Names, addresses, telephone numbers, facsimile numbers and email addresses for any additional contacts.

**SECTION IV—Acknowledgment and Certification**

I certify that:

I have the authority to submit the proposal for pass-through toll financing described in this application. To the best of my knowledge, all information contained in this application is valid and accurate and the governing body of the undersigned jurisdiction has authorized the submission of this application.

<i>Michael N. Morris, P.E.</i> <small>Signature of highest official</small>	Date <u>5/12/09</u>
<u>MICHAEL MORRIS, P.E.</u> <small>Printed Name</small>	<u>DIRECTOR OF TRANSPORTATION</u> <small>Title, Jurisdiction</small>

# Application Guidelines for Pass-Through Toll Financing of Highway Projects

Date May 12, 2009      Applicant Name: NCTCOG  
 Primary Contact: Christie Jestis  
 E-mail address: cjestis@nctcog.org

District Dallas      CSJ (if any) 1068-04-147  
 County Dallas      UTP Authority (if any) DEVELOP  
 (PLAN, DEVELOP or CONSTRUCT)

Highway: IH 30

**Limits:**

From Tarrant/Dallas County Line  
 To Sylvan Ave

Project Length: 12.99 miles

Project Scope: Construct permanent barrier separated Managed HOV Lanes, toll gantries, two wishbone ramps, signs, pavement markings, and other median work.

Tentative Letting Date: June 2011

Estimated duration of construction: 730 (working days) \*

(\* A working day is defined as a calendar day.)

**Advanced Project Development Elements**

A. Schematic development

1. Schematic status

- a. Percent complete 100 %
- b. Approval authority:  FHWA    TxDOT-DES    TxDOT-District

B. Environmental Commitments & Issues

- 1. Anticipated type of environmental document required    CE    EA    EIS
- 2. Has environmental document been approved?  yes    no  
 Status 12/15/2006 "FHWA Approved Categorical Exclusions"
- 3. Office responsible for preparing environmental document Dallas District

C. Potential Environmental Impacts

1. Historical/Archeological sites	N/A
2. Disruption of Schools/Neighborhoods	N/A
3. Agricultural or Recreational Lands	N/A
4. Air/Water Quality	SW3P and BMPs are required
5. Potential hazardous material sites	N/A
6. Wetlands, Streams, Lakes, Floodplains	N/A

7. Social, economic, environmental justice	N/A
8. Endangered Species	Check Bridges for nests of birds during breeding season.
9. Located within a Coastal Zone	N/A
10. Adverse effects of noise	N/A

**Proposed Right Of Way & Utility Elements**

A. Right of way elements

1. Proposed Usual ROW width 172'
2. Is additional ROW required?     yes     no

B. Major utility facilities - Preliminary utility inventory: None

Utility	Type	Crossing or Parallel?	Describe potential conflict
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			

**Proposed Roadway Design Elements**

A. Functional classification:

- Freeway     Arterial     Major collector     Minor collector     Local

B. Highway type:

- Urban     Suburban     Rural  
 Freeway     Frontage road     Multilane road     Two-lane road

C. Proposed Scope:

- Mobility Corridor (5R )     4R/new construction     3R     2R

D. Terrain:  Level     Rolling

E. Traffic

Roadway	Existing ADT	% Trucks	ADT (letting year)	ADT (opening year)	ADT (end of reimb. period)
IH 30 HOV/Managed Toll lanes	1334	0	2,421	2,766	7,924

Data Source: Dallas-Fort Worth Regional Travel Model

F. Design criteria

1. Posted Speed: 60 mph      Design Speed: 60 mph
2. Grades: Minimum 0.5%      Maximum 4%

G. Are design exceptions/waivers anticipated?  yes     no

If yes, what design elements?

- 11' freeway lanes
- 2' and 4' inside lane shoulders
- 2' outside freeway lane shoulders
- 11' reversible managed lanes
- Below minimum managed lane shoulders
- Below minimum slip ramp lane & shoulder widths

H. Pavement Design

- a. Proposed pavement type:  Rigid     Flexible

**Proposed Hydraulic Elements**

A. Is the design of any special drainage facility required?     yes     no

If yes, explain \_\_\_\_\_

B. Are any of the communities (county/city/town) participating in the National Flood Insurance Program (NFIP)?     yes     no

If yes, have the appropriate Flood Plain Administrators (FPA) been notified?     yes     no  
(Names / Communities)

C. Is there any existing development in the floodplain, or adjacent to the ROW but not in the floodplain, that may be impacted at any stage by changes (no matter how small) brought about by the project?

yes     no

**Proposed Traffic Operations Elements**

- A. Is signalization proposed?       yes    no  
If yes, are traffic signals warranted?  yes    no  
At which intersections are signals proposed? \_\_\_\_\_
- B. Is safety lighting proposed?       yes    no  
If yes, where? \_\_\_\_\_
- C. Is continuous lighting proposed?  yes    no  
If yes, where? \_\_\_\_\_
- D. Are Intelligent Transportation System (ITS) items proposed?    yes    no

**Proposed Miscellaneous Elements**

- A. Geotechnical exploration  
Is geotechnical exploration needed for any of the following (mark all that apply)?  
 Roadway    Bridge    Retaining/Noise wall    Storm Drain    Other
- B. Will all requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG), Texas Accessibility Standards (TAS) and related rules be met?  
 yes    no
- C. Are railroad agreements needed?    yes    no   If yes, where? \_\_\_\_\_
- D. Are airway/highway clearance permits required?    yes    no

**Proposed Transportation Reinvestment Zones**

At this time we do not anticipate the creation of a Transportation Reinvestment Zone (TRZ)

**Attachments to be provided by the applicant:**

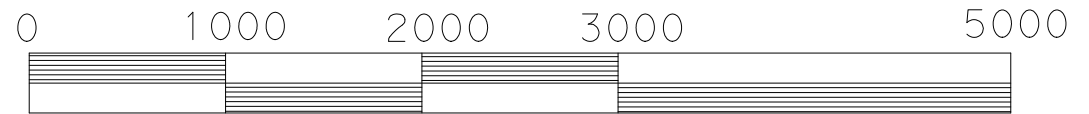
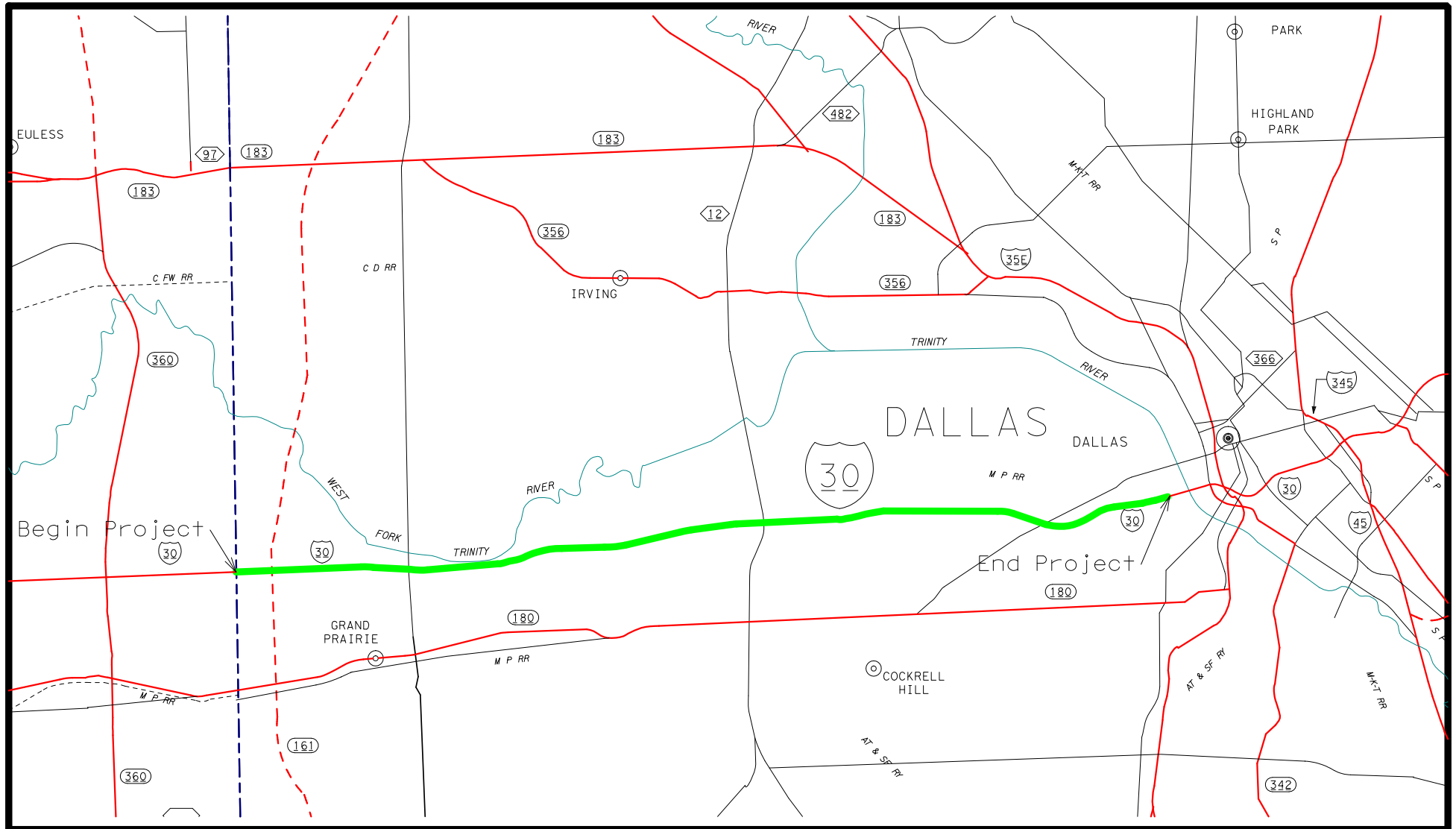
1. Project location map (drawn to scale) showing proposed alignments and approximate locations for the following items: **See Attachment**
  - a. Roadway layout
  - b. Potential environmental issues (e.g. natural habitat, wetlands, cemeteries, historic features, contaminated sites)
  - c. Railroad crossings
  
2. Existing and Proposed Typical Sections for roadways and bridges including the following items at a minimum: **See Attachment**
  - a. Lane, shoulder, median and speed change lane widths
  - b. Cross slopes, side slopes, horizontal clearance and ROW limits
  - c. Provisions for pedestrians, bicyclists and parking ( if applicable)
  - d. Pavement layer thickness and composition (e.g. subbase, base, surface course) **Identical to existing main lanes.**
  
3. Typical sections for major phases of construction traffic control. **Work will be done behind existing barriers; the HOV lanes will not be in operation during the construction period.**
  
4. Detailed cost estimate or basis for the cost estimate provided **See Attachment**
  
5. If project is proposed as a toll facility, provide the following:
  - a. Description and/or layout of the segments to be tolled, and those that will not be tolled,
  - b. Estimated revenue to be collected from tolled segments during the first ten years of operation, and
  - c. Breakdown of estimated costs for tolled and non-tolled segments



# I-30 Managed Lane Project

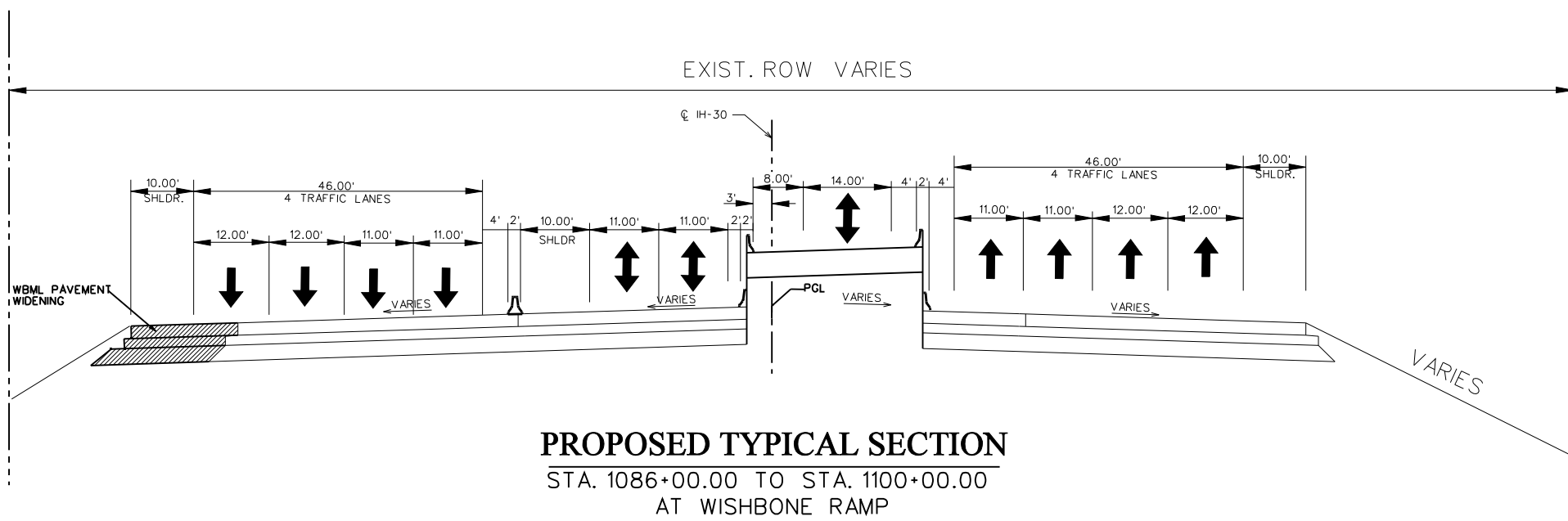
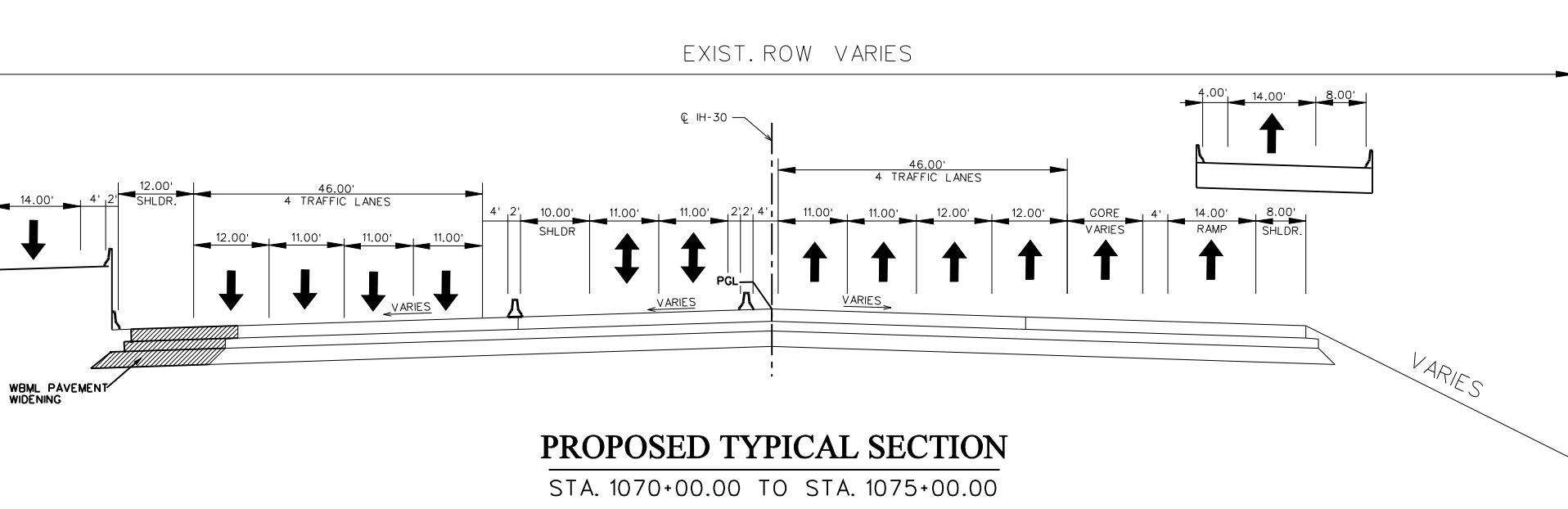
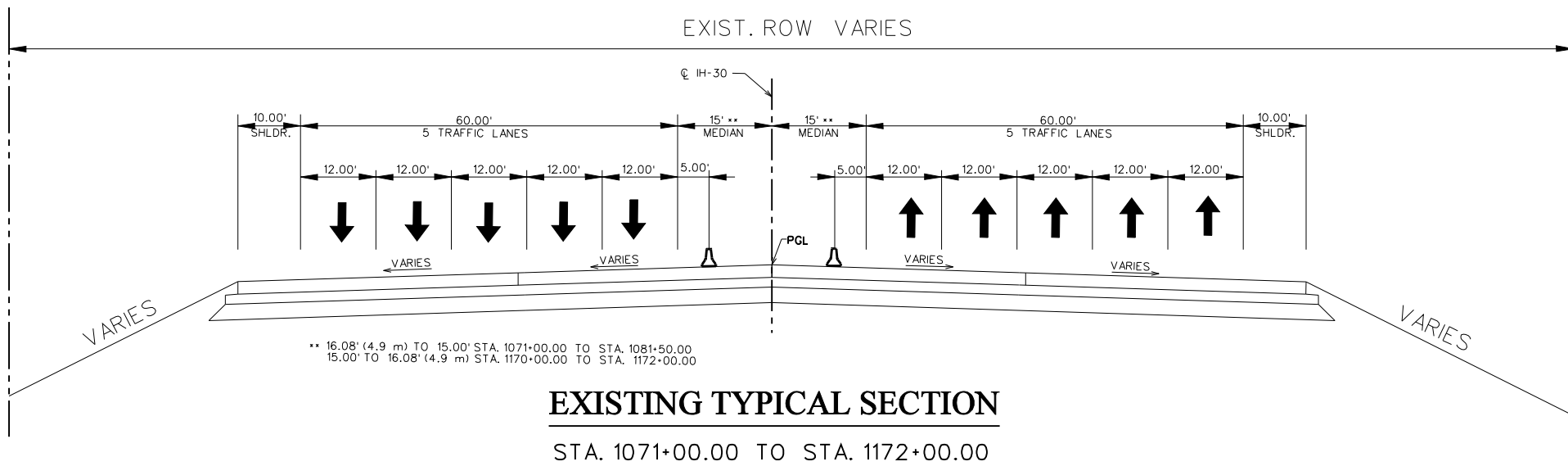
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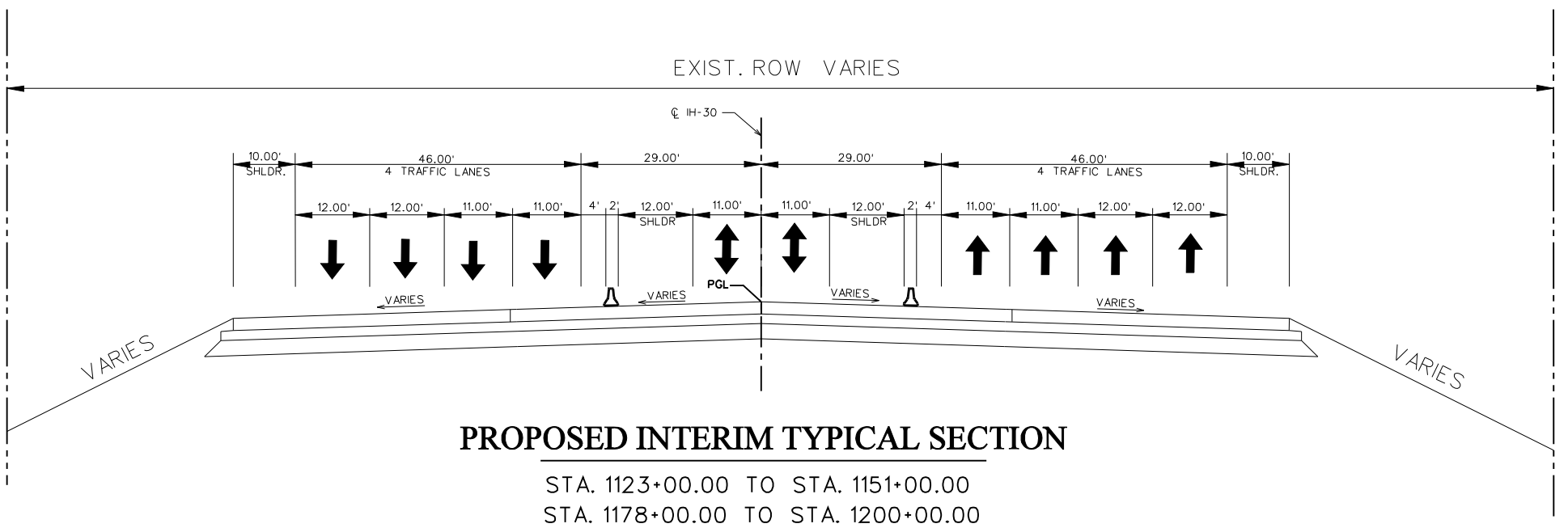
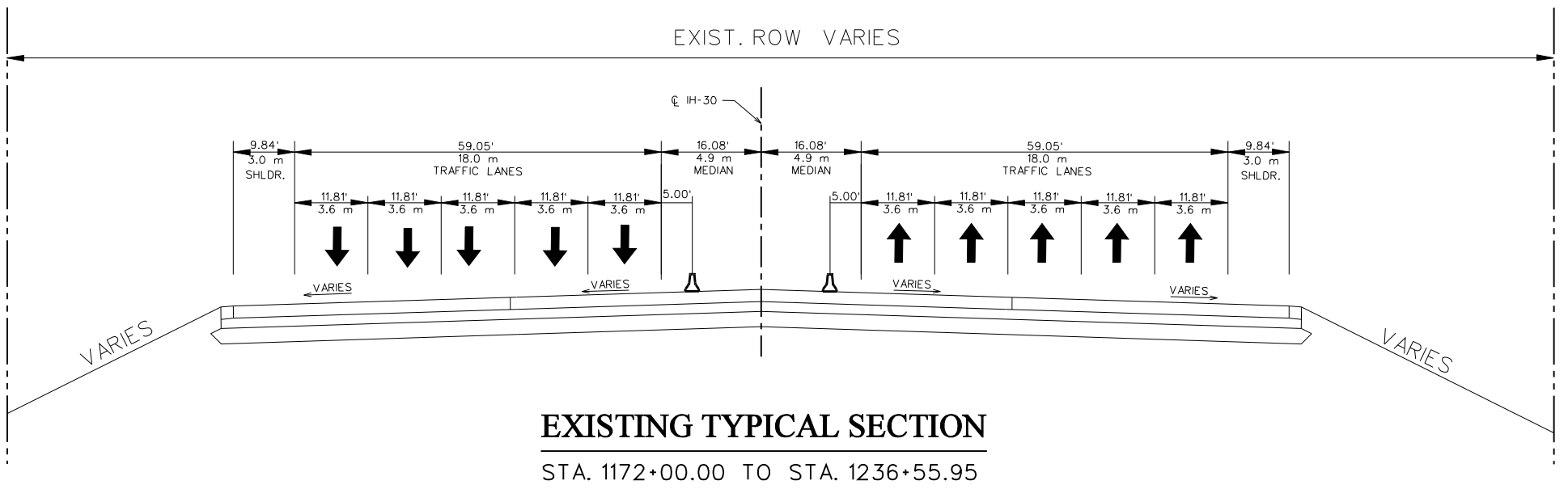
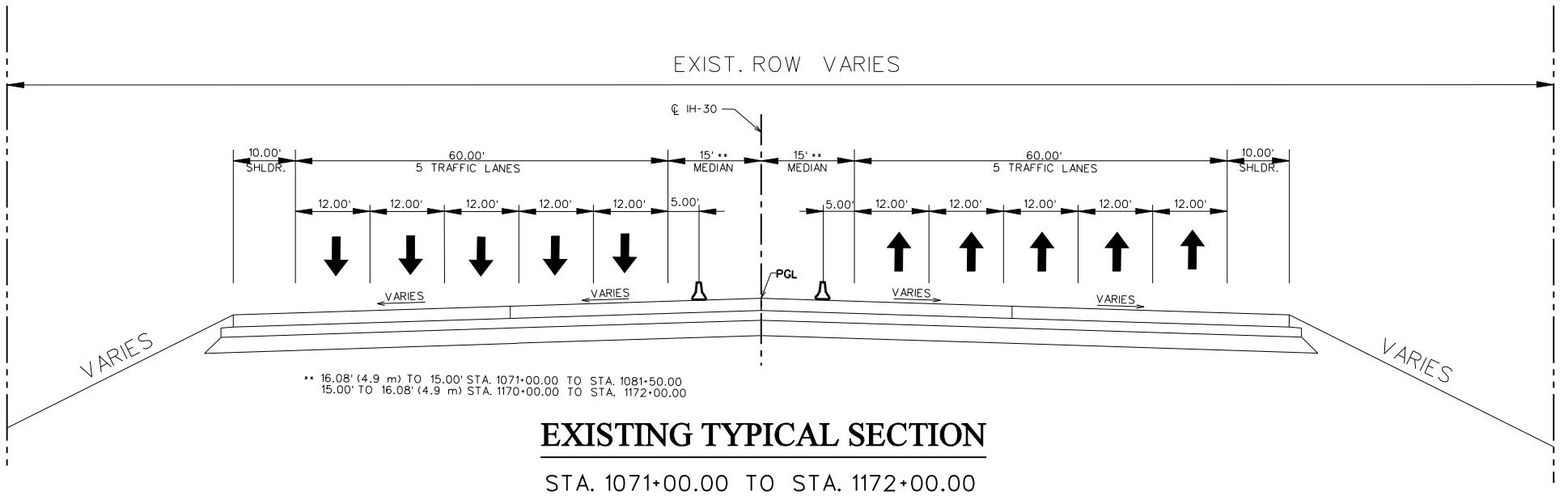
CSJ: 1068-04-147

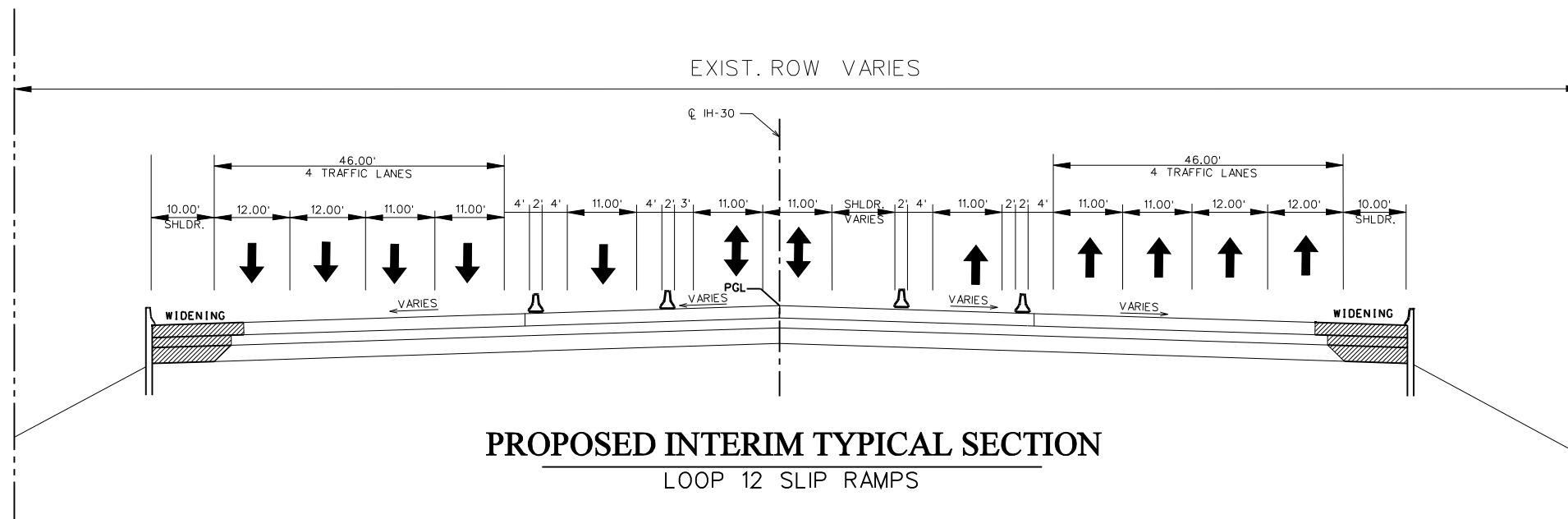
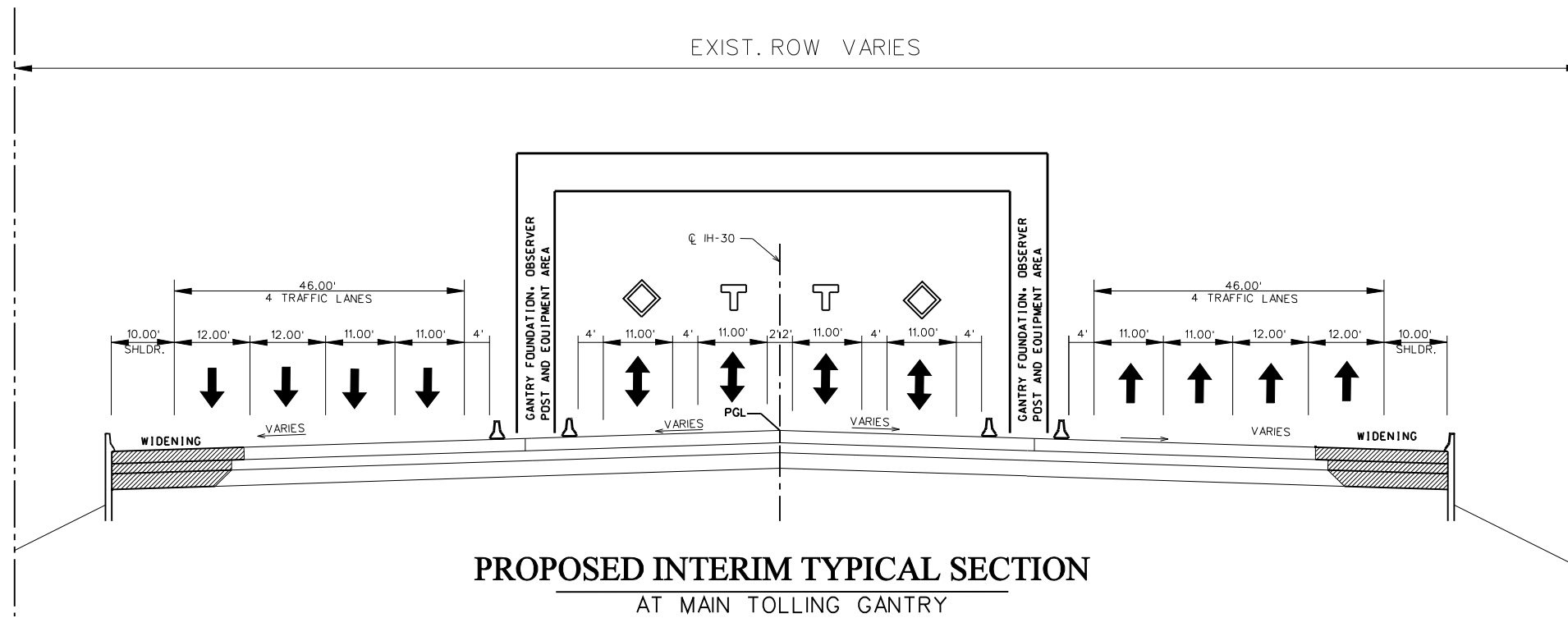


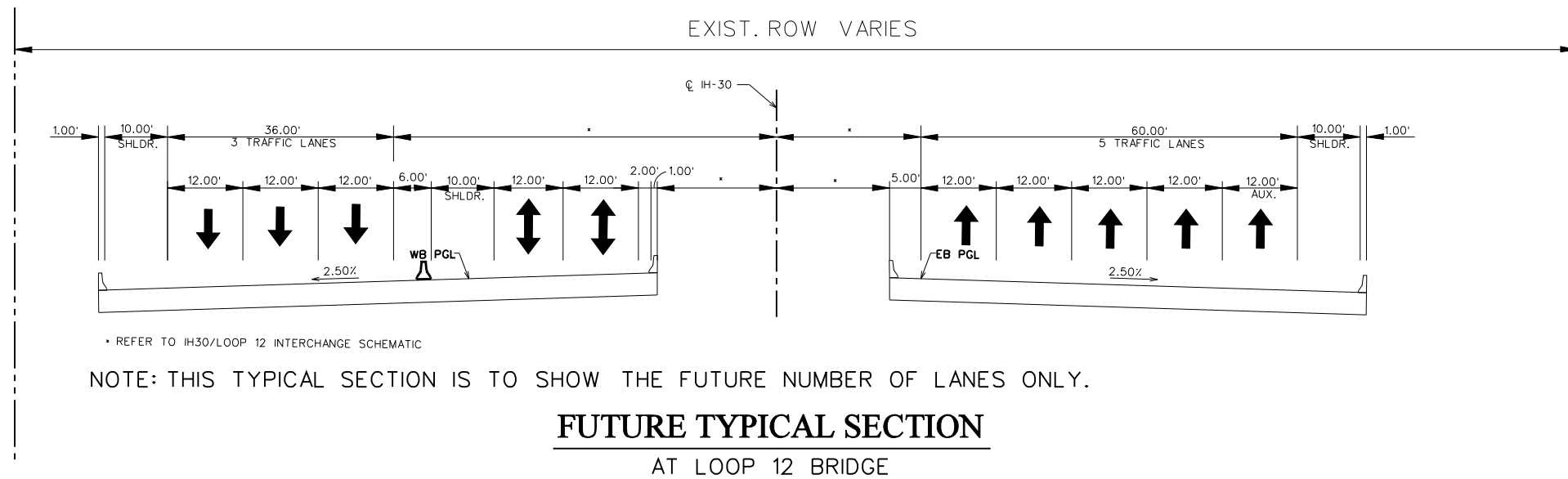
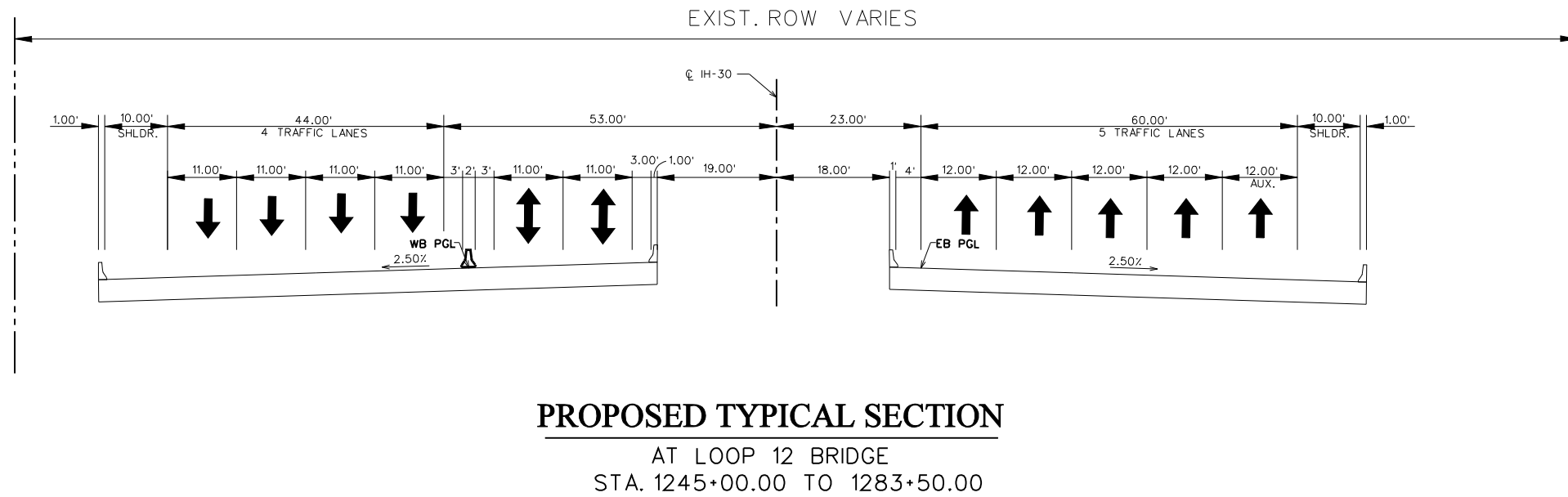
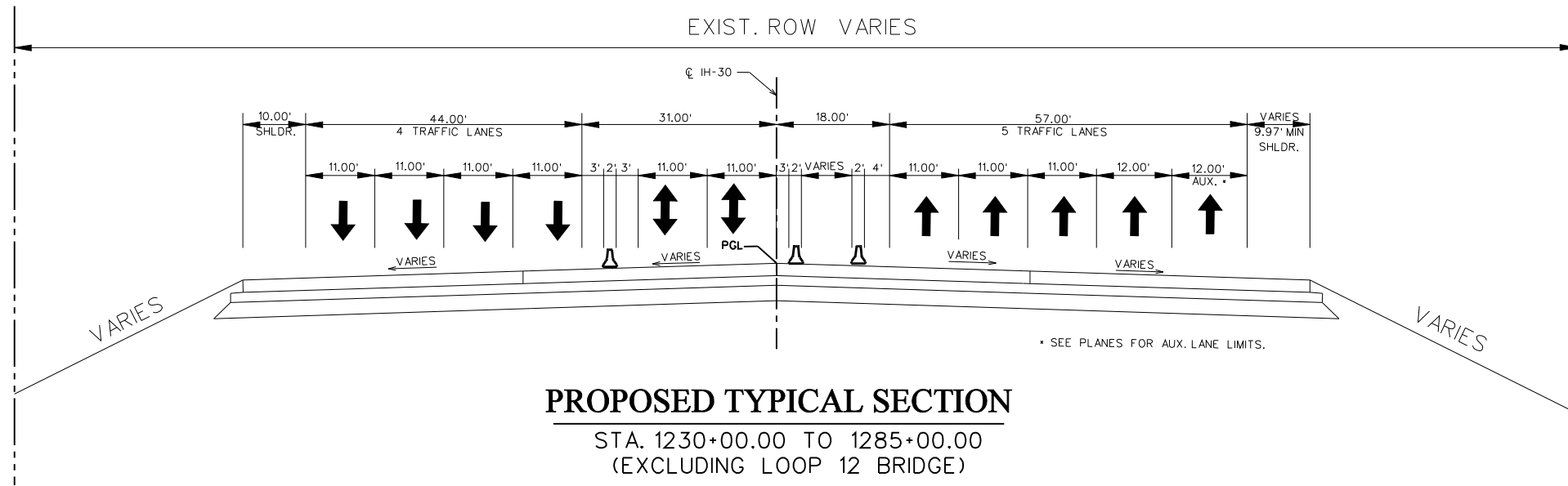
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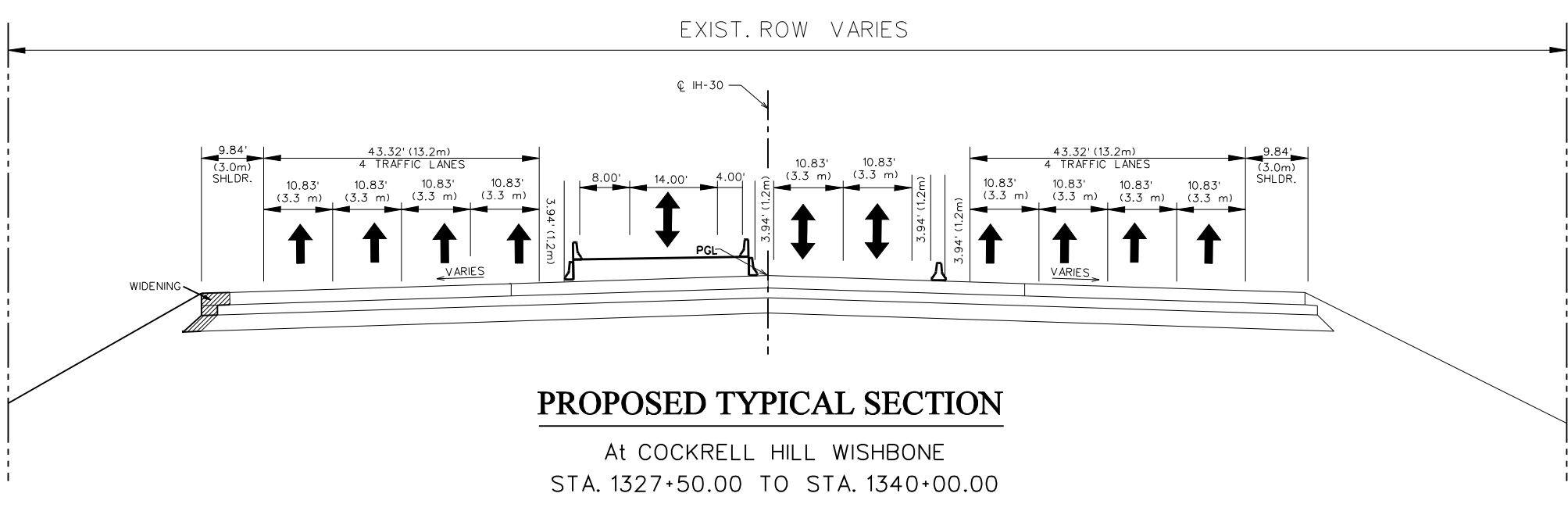
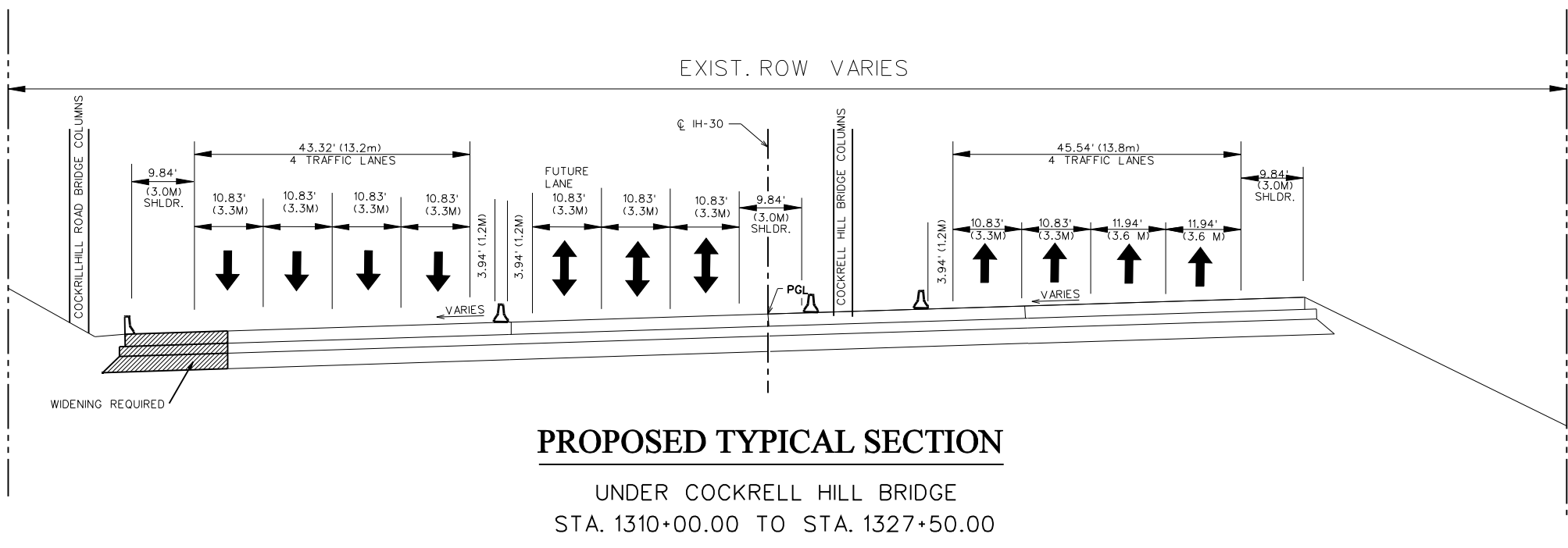
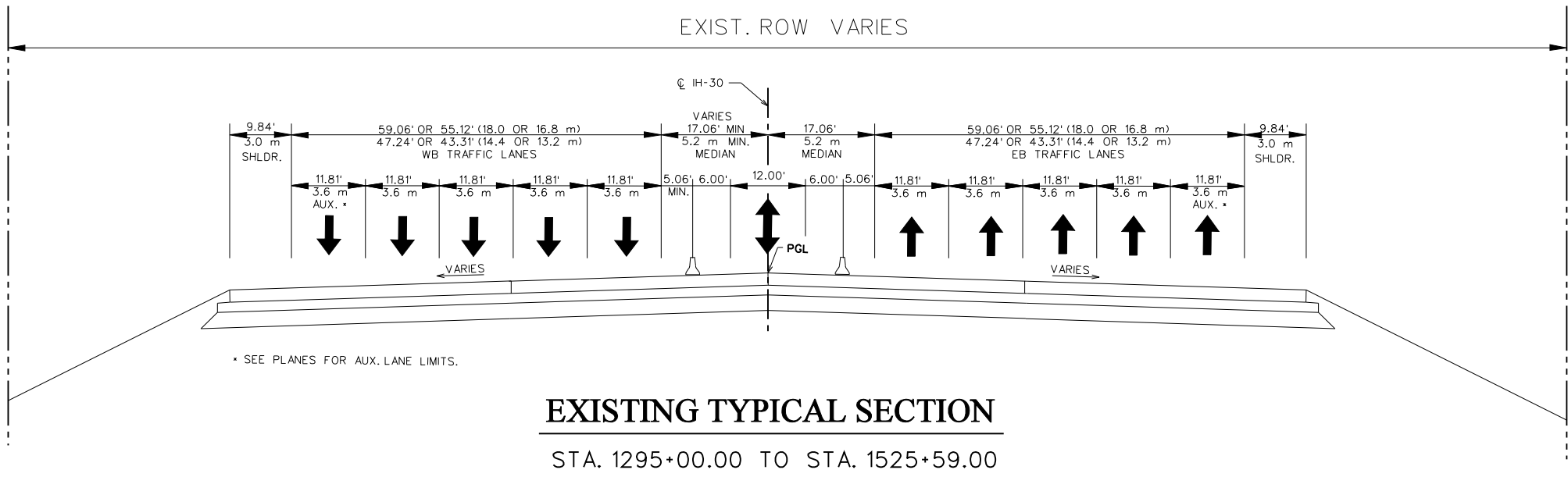
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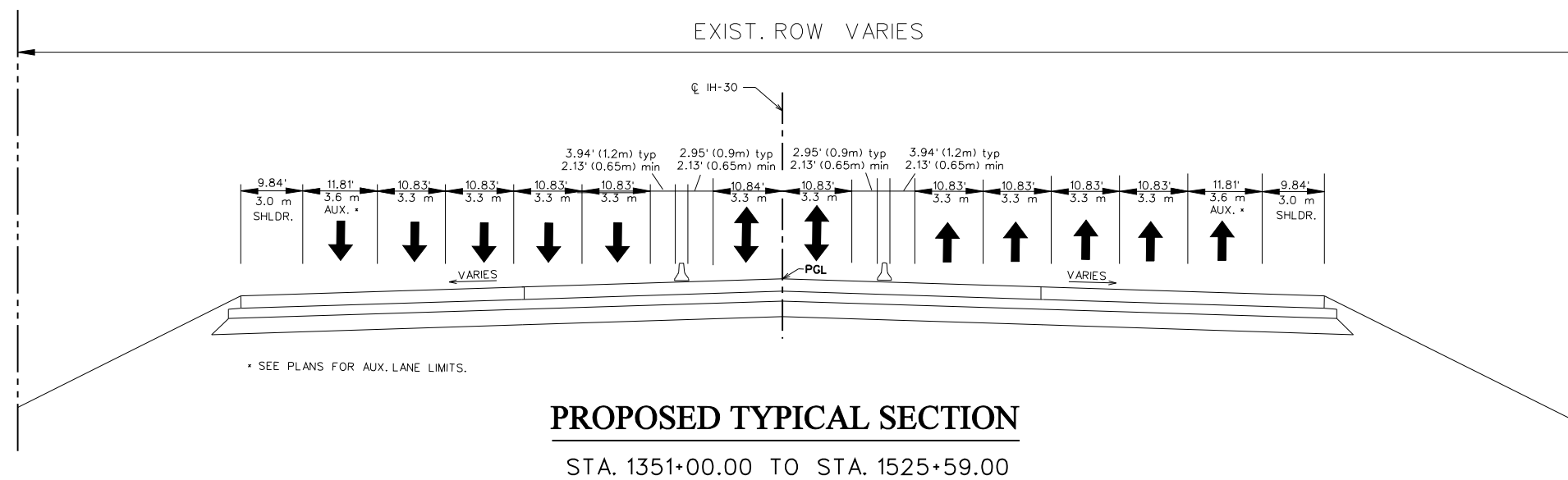
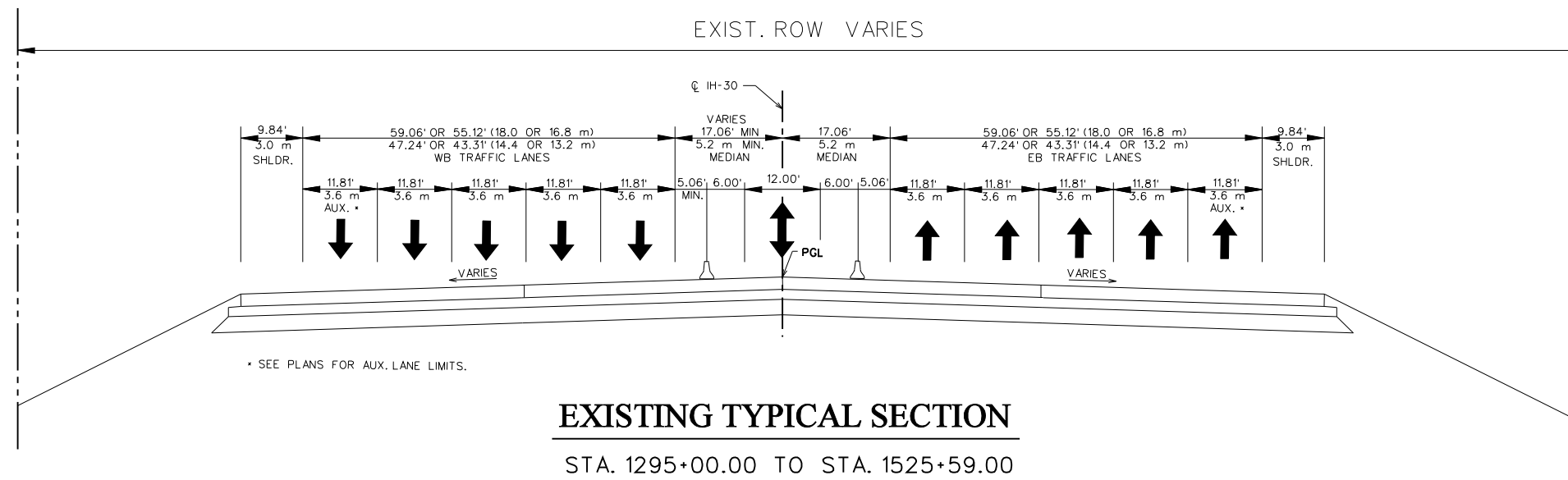




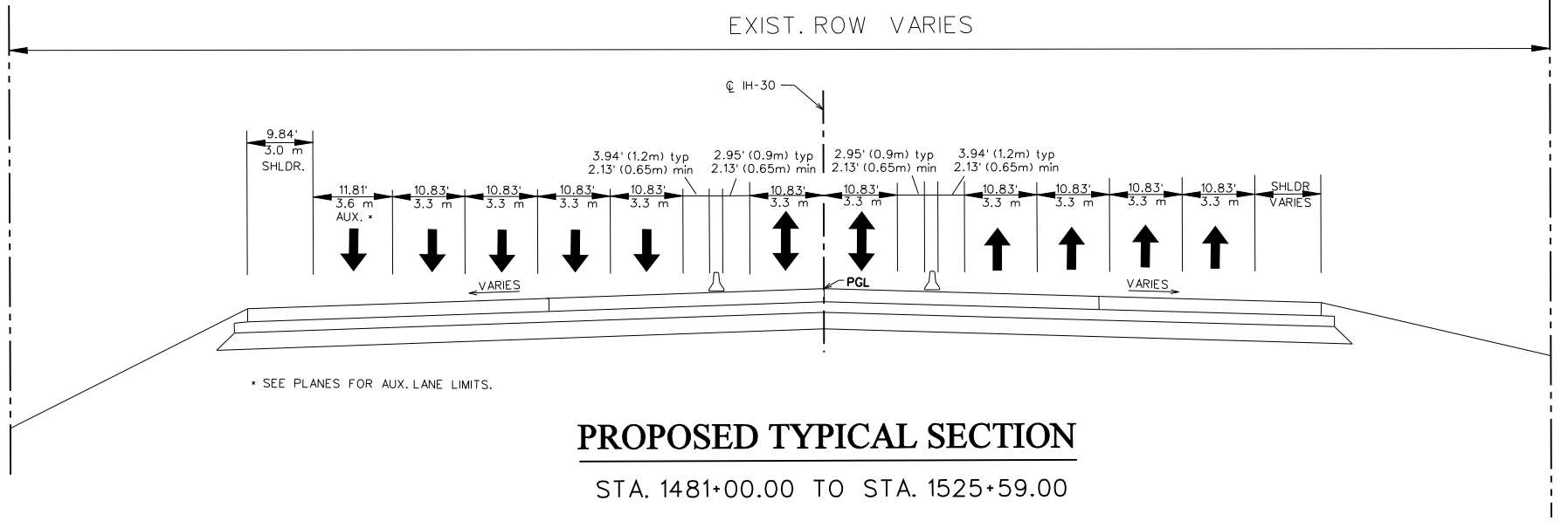
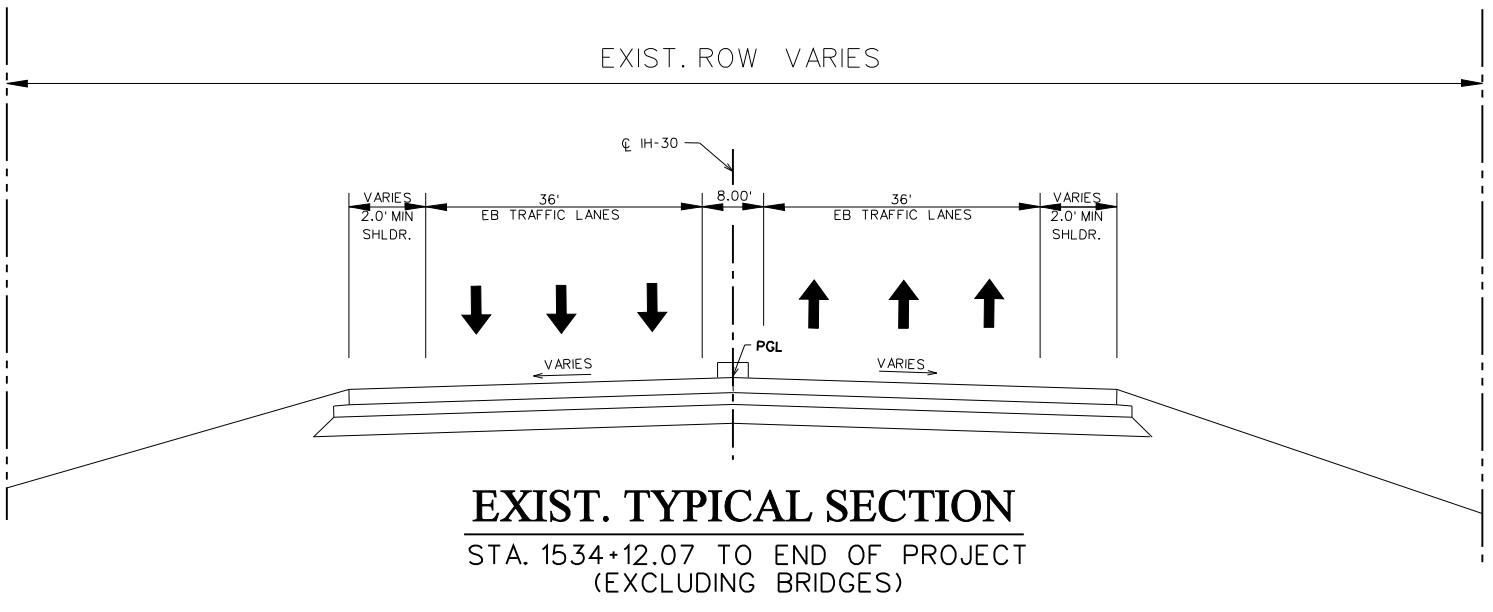
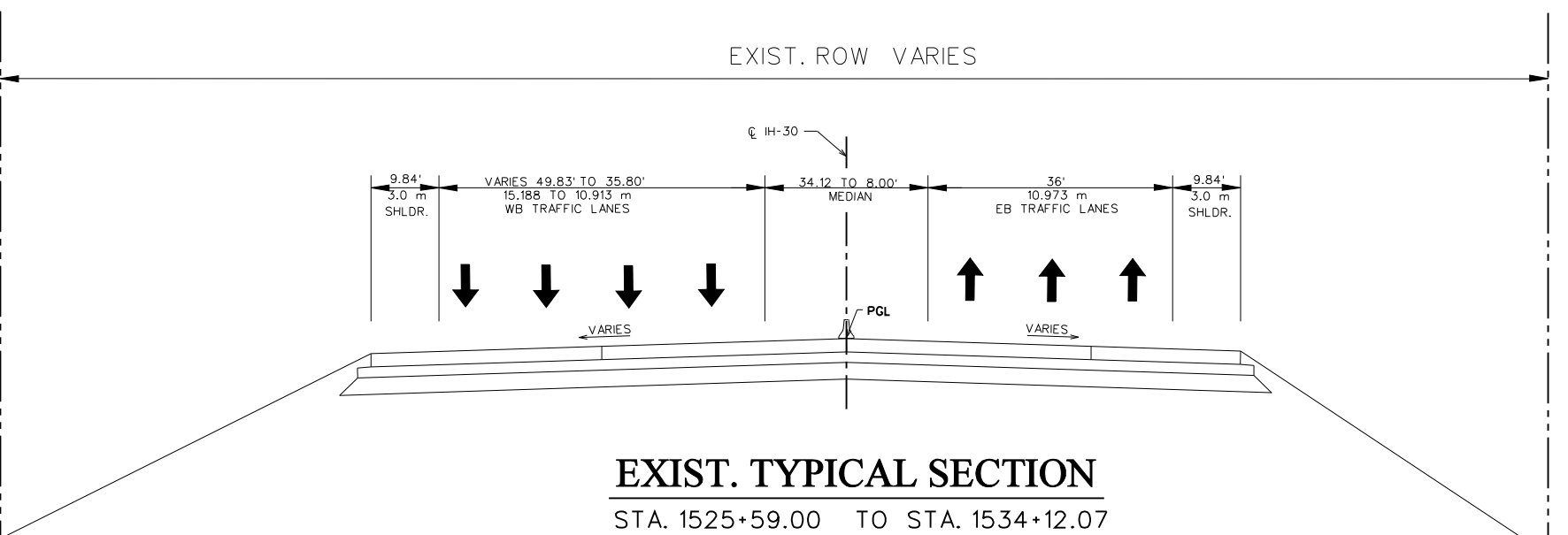
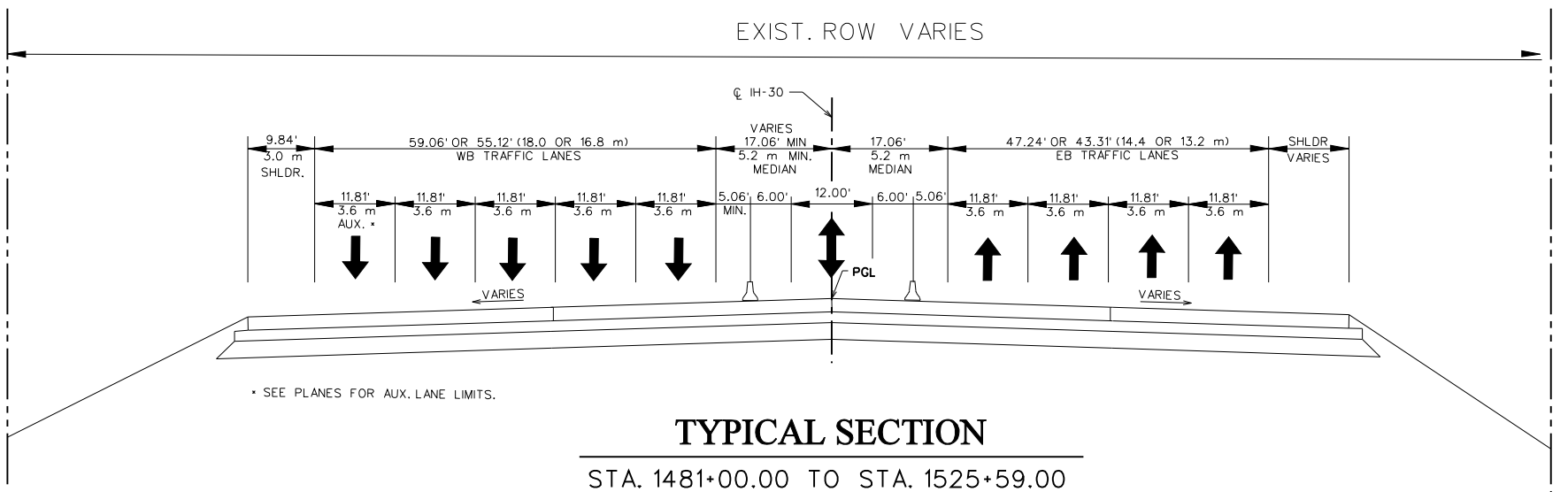


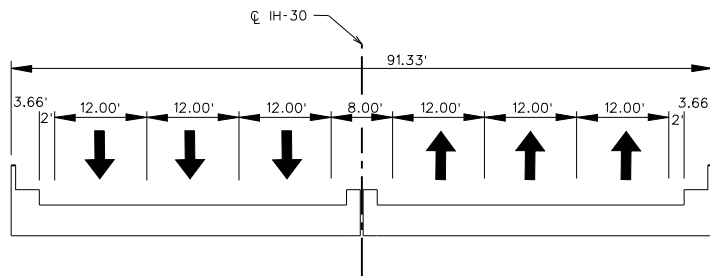




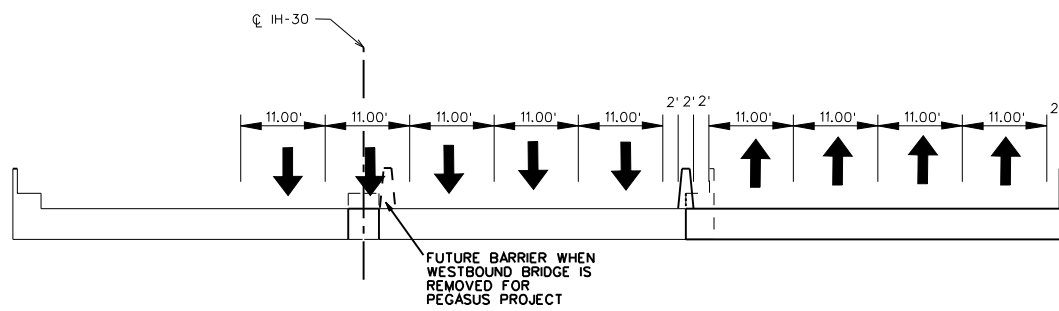




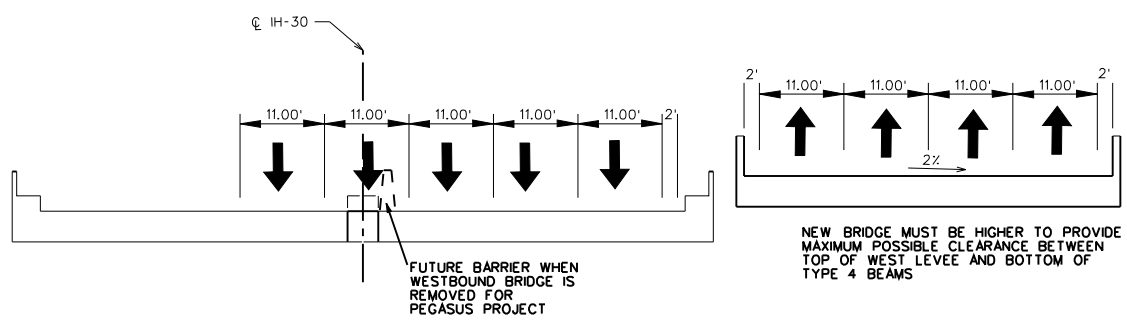




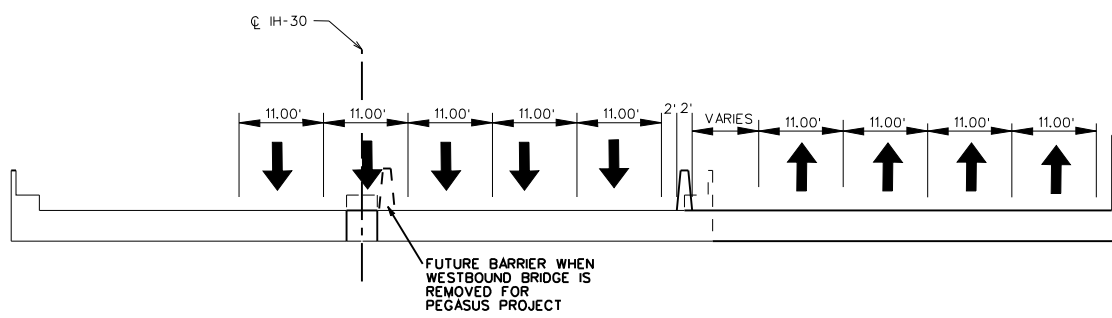
**EXISTING TYPICAL SECTION**  
AT BECKLEY AVE. & TRINITY RIVER BRIDGES



**PROPOSED TYPICAL SECTION**  
AT BECKLEY AVE.



**PROPOSED TYPICAL SECTION**  
TRINITY RIVER BRIDGE WEST OF RIVER



**PROPOSED TYPICAL SECTION**  
TRINITY RIVER BRIDGE EAST OF RIVER

# Annual Scope & Estimate Documentation Spreadsheet

**Date** 5/6/2009 **Prepared By** Stephen M. Endres, P.E.  
**District** Dallas **TxDOT Project Manager** \_\_\_\_\_  
**County** Dallas **CSJ** 1068-04-147  
**Project No.** CM ( ) **CCSJ** \_\_\_\_\_  
**Highway** I-30 **Construct Categories** 5-CMAQ  
**UTP Authority** DEVELOP **FY of Current Costs** 2009 **Est Let FY** 2010

**Limits From** Tarrant/Dallas County Line  
**Limits To** Sylvan Avenue

**Project Scope** Construct Managed/HOV Lanes with Two Sets of Wishbone Ramps

Existing Facility:				Proposed Facility:			
No Mainlanes	<u>8</u>	Type	<u>*F-Urb Frwy</u>	No Mainlanes	<u>8</u>	Type	<u>*F-Urb Frwy</u>
No Frontage Lanes	<u>0</u>	Type	<u>/U</u>	No Frontage Lanes	<u>0</u>	Type	<u>/U</u>

**Estimate:**

I.	Design	\$4,575,162	(Not included in total costs)
II.	Earthwork subtotal	\$450,000	
III.	Subbase & base subtotal	\$387,000	
IV.	Surface Courses or Pavement subtotal	\$3,412,800	
V.	Structures subtotal	\$22,080,000	
VI.	Incidental subtotal	\$23,197,205	
VII.	Lighting and Signing subtotal	\$26,725,700	
VIII.	Right of Way & Environmental Mitigation	\$0	(Not included in total costs)
<b>Current Estimate Total</b>		<b>\$76,252,705</b>	

**New Project**

<b>Last Year's Total</b>	<u>\$83,727,135</u>
<b>Percent Change</b>	<u>-8.9%</u> <small>[(Current-Last Yr's)/Last Yrs]</small>
<b>Inflated Current Estimate</b>	<u>\$79,684,077</u> <small>Inflation is calculated at 4.5% per fiscal year.</small>

**Explanation of Change from Last Year's Total** Cost decreased because CTB unit cost was 50\$/LF instead of \$100/LF.

\_\_\_\_\_  
**Signature - Area Engineer**      **Date**

\_\_\_\_\_  
**Signature - Director of TP&D**







# Surface Courses and Pavement

Item No.	Description Code	Description	Quantity	Unit Price	Unit	Amount
340	2011	D - GR HMA (METH) TY-B PG64 - 22 (ASPHALT)	11880.0	\$ 60.00	Ton	\$ 712,800.00
						\$ -
360	2006	CONC PAV (CONT REINF - CRCP) (13")	54000.0	\$ 50.00	SY	\$ 2,700,000.00
						\$ -
					Subtotal	\$ 3,412,800.00









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# Application Guidelines for Pass-Through Toll Financing of Highway Projects

Appendix D

## TOTAL PROJECT COST AND PROJECTED FUNDING SUMMARY

<b>Highway</b>	IH 30				<b>Control-Section-Job No.(s)</b>	1068-04-147			
<b>Limits</b>	From:	Tarrant/Dallas C/L	To:	Sylvan Ave	<b>Project Length:</b>	12.99			

	Prelim. Eng.	Environ. Mitiga. (if applicable)	Right of Way	Utility Adj./ Relocate	Const. Cost *	Const. Eng.	Maint. (if applicable)	Operations (if applicable)	Conting.	Indirect Costs	Other Costs	TOTAL COST	Amount of Funding Provided: (in millions)			
													City	County	Private	Other
FY 2010	\$3.9					\$3.2			\$4.8	\$3.5		\$15.4				15.4
FY 2011					26.67							\$26.67				26.67
FY 2012					26.67							\$26.67				26.67
FY 2013					26.64							\$26.64				26.64
FY												\$0.0				
FY												\$0.0				
FY												\$0.0				
FY												\$0.0				
FY												\$0.0				
FY												\$0.0				
FY												\$0.0				
FY												\$0.0				
<b>TOTAL PROJECT COST (in millions)</b>	\$3.9	\$0.0	\$0.0	\$0.0	\$80.0	\$3.2	\$0.0	\$0.0	\$4.8	\$3.5	\$0.0	\$95.4	\$0.0	\$0.0	\$0.0	\$95.4

If more than one project, include a separate sheet for each project, as well as a summary sheet of all projects.

\* A separate sheet(s) should be prepared to show a further breakdown of the construction costs.

# Application Guidelines for Pass-Through Toll Financing of Highway Projects

## PROPOSED REIMBURSEMENT SCHEDULE SUMMARY (Subject to Negotiation)

Highway Limits Control-Section-Job No.(s)	IH 30 From: Tarrant/Dallas C/L To: Sylvan Ave Project Length: 12.99 1068-04-147						Suggested Maximum Reimbursement	Suggested Minimum Reimbursement
		Est. ADT in Fiscal Year	Est. Annual Traffic	Annual Vehicle Miles	Proposed Rate	Est. Annual Reimbursement		
FY 2013	\$8,000,000.00	2,421	809,068	23,222,316	Dynamic Pricing	\$8,396,000	\$8,000,000.00	\$6,400,000.00
FY 2014	\$8,000,000.00	3,285	853,970	24,242,270	Dynamic Pricing	\$9,716,000	\$8,000,000.00	\$6,400,000.00
FY 2015	\$8,000,000.00	3,457	898,872	25,262,224	Dynamic Pricing	\$5,768,000	\$8,000,000.00	\$6,400,000.00
FY 2016	\$8,000,000.00	3,630	943,774	26,282,178	Dynamic Pricing	\$7,171,000	\$8,000,000.00	\$6,400,000.00
FY 2017	\$8,000,000.00	3,803	988,676	27,302,132	Dynamic Pricing	\$8,489,000	\$8,000,000.00	\$6,400,000.00
FY 2018	\$8,000,000.00	3,975	1,033,578	28,322,086	Dynamic Pricing	\$9,998,000	\$8,000,000.00	\$6,400,000.00
FY 2019	\$8,000,000.00	4,148	1,078,480	29,342,040	Dynamic Pricing	\$11,470,000	\$8,000,000.00	\$6,400,000.00
FY 2020	\$8,000,000.00	4,787	1,244,533	33,978,706	Dynamic Pricing	\$13,362,000	\$8,000,000.00	\$6,400,000.00
FY 2021	\$8,000,000.00	5,425	1,410,587	38,615,372	Dynamic Pricing	\$15,148,000	\$8,000,000.00	\$6,400,000.00
FY 2022	\$8,000,000.00	7,924	1,576,640	43,252,037	Dynamic Pricing	\$17,382,000	\$8,000,000.00	\$6,400,000.00
FY								
FY								
<b>TOTAL REIMBURSEMENT AMOUNT</b>	<b>\$80,000,000.00</b>						<b>\$80,000,000.00</b>	<b>\$64,000,000.00</b>

If more than one project, a separate sheet should be prepared for each project and a summary sheet of the total reimbursement schedule included.

\* FY XXXX = Opening Year - Increment by years until project is paid off.

Estimated ADT by fiscal year must be provided by TxDOT or TxDOT must agree to the methodology and estimated traffic volumes furnished.

Estimated annual traffic is equal to 365 days (or portion of year in days open to traffic) multiplied by the estimated ADT.

Annual vehicle miles are equal to the estimated annual traffic multiplied by project mileage.

Proposed rate is the entity's proposed reimbursement rate per mile subject to negotiation (ex., \$0.10 per mile).

Estimated annual reimbursement equals the annual vehicle miles multiplied by the proposed reimbursement rate.

Suggested maximum reimbursement is the proposed maximum reimbursement for the fiscal year.

Suggested minimum reimbursement is the proposed maximum reimbursement for the fiscal year.



## MEMORANDUM

**TO:** Stan Hall, P.E.  
APD Engineer  
Dallas District

**DATE:** December 15, 2006

**FROM:** James P. Barta, Jr., P.E.  
Director Project Management Section  
Environmental Affairs Division

**SUBJECT:** NH ( ) & CM  
Categorical Exclusion  
Dallas County  
CSJ 1068-02-120 & 1068-04-126

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IH 30: From Ballpark Way to Sylvan Avenue

Attached is one copy of our letter dated December 1, 2006, on which the FHWA has endorsed the subject project as a categorical exclusion. You may now proceed with the next stage of project development.

Attachment

C-SE 1068-09-126 1.3 IH30 FHWA CE



# Texas Department of Transportation

DEWITT C. GREER STATE HIGHWAY BLDG. • 125 E. 11TH STREET • AUSTIN, TEXAS 78701-2483 • (512) 463-8585

December 1, 2006

NH ( ) & CM  
Categorical Exclusion  
Dallas County  
CSJ: 1068-02-120 & 1068-04-126

IH 30: From Ballpark Way to Sylvan Avenue

Mr. Al Alonzi  
Acting Division Administrator  
Federal Highway Administration  
Austin, Texas 78701

Dear Mr. Alonzi:

Attached are four copies the Public Hearing Documentation for the above reference project containing the signed Certification of Public Involvement, public hearing summary and analysis, comment-response report, verbatim transcript and other information. A public hearing was held on November 16, 2006 in Grand Prairie, Texas.

Please note that a revised copy of the categorical exclusion (CE) covering the above referenced project on IH 30 was mailed to your office on October 13, 2006. You office approved the CE to proceed with public involvement on October 13, 2006.

We request your concurrence that the subject project meets the criteria for a categorical exclusion and no further environmental documentation is required. Should you have any questions please contact Margaret Canty, Project Manager at (512) 416-2598.

Sincerely,

James P. Barta, Jr., P.E.  
Director Project Management Section  
Environmental Affairs Division

Concur:

Federal Highway Administration

Date:

12/15/2006