ADDENDUM NO. 1



ΤO

Sycamore Lane Bridge Replacement BRO - B050 (023)

COUNTY OF JEFFERSON, MISSOURI

June 24th, 2022

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents. Acknowledge receipt of this addendum per the instructions given in the bidding documents. Failure to acknowledge this or any other addenda may subject bidder to disqualification.

Project Specifications:

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BRO – B050(023) State Wage Rates:

Remove sheets 180 to 183 of the project specifications, Missouri Annual Wage Order, dated 4/8/2021, and replace with page numbers ADD 1-180 through ADD 1-183, Missouri Annual Wage Order, dated 4/11/2022. The purpose is to update the Missouri Annual Wage Order to the current publication.

BRO – B050(023) Bid Form

Remove sheets 15 and 16 of the project specifications and replace with page numbers ADD 1-15 ADD 1-16. The purpose is to update the Bid form to reflect the addition of the bid alternative. The items listed in the Bid Alternative will replace the Pay Items 203-60.00, 304-05.04, 310-50.02, 401-12.09, 401-30.00, 407-10.05, 502-11.06, 616-10.05, 616-10.25 with the Pay items listed in the bid alternate. The alternate reflects the option of concrete to be used in place of asphalt.

BRO - B050(023) Agreement Form

Remove sheets 25 and 26 of the project specifications and replace with page numbers ADD 1-25 and ADD 1-26. The purpose is to update the Bid form to reflect the addition of the bid alternative. The items listed in the Bid Alternative will replace the Pay Items 203-60.00, 304-05.04, 310-50.02, 401-12.09, 401-30.00, 407-10.05, 502-11.06, 616-10.05, 616-10.25 with the Pay items listed in the bid alternate. The alternate reflects the option of concrete to be used in place of asphalt.

BRO - B050(023) Plans:

Use in place sheets 2 to 9, 11 to 17, and 42 to 46 of the Construction Plans, dated 12/22/2021, and refer to page numbers ADD 1-2 through ADD 1-9, ADD 1-11 through ADD 1-17, and ADD 1-42 through ADD 1-46, dated 6/21/2022. The purpose is to update the construction plans to reflect the option of The bid alternative in the case of concrete being used in place of asphalt.

Missouri Division of Labor Standards WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

Annual Wage Order No. 29

Section 050 JEFFERSON COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by Todd Smith, Director Division of Labor Standards

Filed With Secretary of State:

March 10, 2022

Last Date Objections May Be Filed: April 11, 2022

Prepared by Missouri Department of Labor and Industrial Relations

Building Construction Rates for JEFFERSON County

| | **Prevailing |
|--|---------------------|
| OCCUPATIONAL TITLE | Hourly |
| | Rate |
| Asbestos Worker | \$64.13 |
| Boilermaker | \$25.15* |
| Bricklayer | \$60.24 |
| Carpenter | \$55.31 |
| Lather | |
| Linoleum Layer | |
| Millwright | |
| Pile Driver | |
| Cement Mason | \$54.84 |
| Plasterer | φ0+.0+ |
| Communications Technician | \$63.71 |
| Electrician (Inside Wireman) | \$71.44 |
| Electrician Outside Lineman | \$25.15* |
| Lineman Operator | ψ20.10 |
| Lineman - Tree Trimmer | |
| Groundman | |
| | |
| Groundman - Tree Trimmer | ¢25.45* |
| Elevator Constructor Glazier | \$25.15* |
| | \$25.15* |
| Ironworker | \$65.47 |
| Laborer | \$47.04 |
| General Laborer | |
| First Semi-Skilled Second Semi-Skilled | |
| | ¢47.09 |
| Mason Marble Mason | \$47.98 |
| Marble Finisher | |
| Terrazzo Worker | |
| | |
| Terrazzo Finisher | |
| Tile Setter | |
| Tile Finisher | \$65.07 |
| Operating Engineer | \$05.07 |
| Group I Group II | |
| Group III | |
| • | |
| Group III-A | |
| Group IV | |
| Group V | ¢20.70 |
| Painter | \$36.79 |
| Plumber | \$73.18 |
| Pipe Fitter | ¢E4.60 |
| Roofer | \$54.60 \$71.37 |
| Sheet Metal Worker | |
| Sprinkler Fitter | \$78.32 \$25.15* |
| Truck Driver Truck Control Service Driver | φ20.10 |
| - | |
| Group I | |
| Group II Group III | |
| | |
| Group IV | |

*The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in Section 290.210 RSMo.

Heavy Construction Rates for JEFFERSON County

| | **Prevailing |
|-------------------------------|--------------|
| OCCUPATIONAL TITLE | Hourly |
| | Rate |
| Carpenter | \$61.83 |
| Millwright | |
| Pile Driver | |
| Electrician (Outside Lineman) | \$25.15* |
| Lineman Operator | |
| Lineman - Tree Trimmer | |
| Groundman | |
| Groundman - Tree Trimmer | |
| Laborer | \$50.76 |
| General Laborer | |
| Skilled Laborer | |
| Operating Engineer | \$64.84 |
| Group I | |
| Group II | |
| Group III | |
| Group IV | |
| Truck Driver | \$25.15* |
| Truck Control Service Driver | |
| Group I | |
| Group II | |
| Group III | |
| Group IV | |

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

*The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in Section 290.210 RSMo.

OVERTIME and HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, **"overtime work"** shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January first; The last Monday in May; July fourth; The first Monday in September; November eleventh; The fourth Thursday in November; and December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

| ay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
|-------------|---|-------------|----------|-----------|--------|
| 201-30.00 | Clearing and Grubbing | Acre | 0.8 | | |
| 202-20.10 | Removal of Improvements | Lump Sum | 1 | | |
| 203-10.00 | Class A Excavation | Cu. Yard | 1267 | | |
| 203-60.00 | Compacting Embankment | Cu. Yard | 446 | | |
| 206-30.00 | Class 3 Excavation | Cu. Yard | 41 | | |
| 304-05.04 | Type 5 Aggregate for Base (4 in. thick) | Sq. Yard | 1018 | | |
| 310-50.02 | Gravel (A) or Crushed Stone (B) | Tons | 90 | | |
| 401-12.09 | Bituminous Pavement Mixture PG64-22 (BP-1) | Tons | 99.5 | | |
| 401-30.00 | Bituminous Pavement Mixture PG64-22 (Base) | Tons | 395.5 | | |
| 407-10.05 | Tack Coat | Gal. | 48 | | |
| 502-11.06 | Concrete Pavement (6 in. Non-Reinforced) | Sq. Yard | 30.1 | | |
| 604-40.11 | Pipe Collar, Type A | Each | 3 | | |
| 606-10.60 | MGS Guardrail | Linear Foot | 57 | | |
| 606-10.69 | MGS Bridge Approach Transition Section (Minor Route) | Each | 3 | | |
| 606-10.99 | Modified MGS Bridge Approach Transition Section (Minor Route) | Each | 1 | | |
| 606-30.14 | Type A Crashworthy End Terminal (MASH) | Each | 3 | | |
| 611-30.20 | Furnishing Type 2 Rock Blanket | Cu. Yard | 592 | | |
| 611-30.40 | Placing Type 2 Rock Blanket | Cu. Yard | 592 | | |
| 611-99.05 | Rock Blanket Bedding | Sq. Yard | 793 | | |
| 618-10.00 | Mobilization | Lump Sum | 1 | | |
| 627-40.00 | Contractor Furnished Surveying and Staking | Lump Sum | 1 | | |
| 726-10.15 | 15 in. Pipe Group A | Linear Foot | 65 | | |
| 726-10.54 | 54 in. Pipe Group A | Linear Foot | 6 | | |
| 732-06.15A | 15 in. or Allowed Substitute Group A Flared End Section | Each | 4 | | |
| 732-06.54A | 54 in. or Allowed Substitute Group A Flared End Section | Each | 2 | | |
| 806-10.05 | Rock Ditch Check | Linear Foot | 24 | | |
| 806-10.19 | Silt Fence | Linear Foot | 520 | | |
| 806-10.50 | Type C Berm | Linear Foot | 275 | | |

| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
|--------------|--|-------------|----------|-----------|--------|
| 206-10.00 | Class 1 Excavation | Cu. Yard | 70 | | |
| 206-55.00 | Temporary Shoring | Lump Sum | 1 | | |
| 216-05.00 | Removal of Bridges | Lump Sum | 1 | | |
| 503-10.11A | Bridge Approach Slab (Minor Road) | Sq. Yard | 110 | | |
| 702-12.12 | Galvanized Structural Steel Piles (12 in.) | Linear Foot | 285 | | |
| 702-60.00 | Pre-Bore for Piling | Linear Foot | 185 | | |
| 702-70.00 | Pile Point Reinforcement | Each | 10 | | |
| 703-20.03 | Class B Concrete (Substructure) | Cu. Yard | 23.7 | | |
| 703-42.19A | Type D Barrier | Linear Foot | 165 | | |
| 703-42.22 | Slab on Concrete Beam | Sq. Yard | 200 | | |
| 705-60.50A | 27 in., Prestressed Concrete Spread Box Beam | Linear Foot | 263 | | |
| 715-10.01 | Vertical Drain at End Bents | Each | 2 | | |
| 716-10.00 | Plain Neoprene Bearing Pad | Each | 8 | | |

| | Signing/Striping Items | | | | |
|--------------|---|----------|----------|-----------|--------|
| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
| 616-10.05 | Construction Signs | Sq. Foot | 111 | | |
| 616-10.08 | Advanced Warning Rail System | Each | 2 | | |
| 616-10.09 | Flag Assembly | Each | 2 | | |
| 616-10.25 | Channelizer (Trim Line) | Each | 15 | | |
| 616-10.31 | Type III Moveable Barricade with Lights | Each | 4 | | |

Subtotal=

| | Landscaping Items | | | | |
|--------------|-------------------|------|----------|-----------|--------|
| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
| 805-10.00 | Seeding | Acre | 0.5 | | |
| | | | | Subtotal= | |

TOTAL =

| | Sycamore Lane Bridge Replacement Concrete Bid Alternate | | | | |
|--------------|---|----------|----------|-----------|--------|
| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
| 203-60.00 | Compacting Embankment | Cu. Yard | 469 | | |
| 304-05.04 | Type 5 Aggregate for Base (4 in. thick) | Sq. Yard | 1062 | | |
| 310-50.02 | Gravel (A) or Crushed Stone (B) | Tons | 150 | | |
| 502-11.06 | Concrete Pavement (6 in. Non-Reinforced) | Sq. Yard | 30.1 | | |
| 502-13.06 | Concrete Pavement (6 in. Non-Reinforced, 15 Ft. Joints) | Sq. Yard | 66.2 | | |
| 502-13.08 | Concrete Pavement (8 in. Non-Reinforced, 15 Ft. Joints) | Sq. Yard | 847.5 | | |
| 616-10.05 | Construction Signs | Sq. Foot | 198 | | |
| 616-10.25 | Channelizer (Trim Line) | Each | 30 | | |
| | | | | Subtotal= | |

ALTERNATE TOTAL =

| Pay Item No. | Roadway Items Description | Unit | Quantity | Unit Cost | Amount |
|--------------|---|-------------|----------|-----------|-----------|
| 201-30.00 | Clearing and Grubbing | Acre | 0.8 | | , ano ant |
| 201-30.00 | Removal of Improvements | Lump Sum | 1 | | |
| 203-10.00 | Class A Excavation | Cu. Yard | 1267 | | |
| 203-60.00 | Compacting Embankment | Cu. Yard | 446 | | |
| 206-30.00 | Class 3 Excavation | Cu. Yard | 41 | | |
| 304-05.04 | Type 5 Aggregate for Base (4 in. thick) | Sq. Yard | 1018 | | |
| 310-50.02 | Gravel (A) or Crushed Stone (B) | Tons | 90 | | |
| 401-12.09 | Bituminous Pavement Mixture PG64-22 (BP-1) | Tons | 99.5 | | |
| 401-30.00 | Bituminous Pavement Mixture PG64-22 (Base) | Tons | 395.5 | | |
| 407-10.05 | Tack Coat | Gal. | 48 | | |
| 502-11.06 | Concrete Pavement (6 in. Non-Reinforced) | Sq. Yard | 30.1 | | |
| 604-40.11 | Pipe Collar, Type A | Each | 3 | | |
| 606-10.60 | MGS Guardrail | Linear Foot | 57 | | |
| 606-10.69 | MGS Bridge Approach Transition Section (Minor Route) | Each | 3 | | |
| 606-10.99 | Modified MGS Bridge Approach Transition Section (Minor Route) | Each | 1 | | |
| 606-30.14 | Type A Crashworthy End Terminal (MASH) | Each | 3 | | |
| 611-30.20 | Furnishing Type 2 Rock Blanket | Cu. Yard | 592 | | |
| 611-30.40 | Placing Type 2 Rock Blanket | Cu. Yard | 592 | | |
| 611-99.05 | Rock Blanket Bedding | Sq. Yard | 793 | | |
| 618-10.00 | Mobilization | Lump Sum | 1 | | |
| 627-40.00 | Contractor Furnished Surveying and Staking | Lump Sum | 1 | | |
| 726-10.15 | 15 in. Pipe Group A | Linear Foot | 65 | | |
| 726-10.54 | 54 in. Pipe Group A | Linear Foot | 6 | | |
| 732-06.15A | 15 in. or Allowed Substitute Group A Flared End Section | Each | 4 | | |
| 732-06.54A | 54 in. or Allowed Substitute Group A Flared End Section | Each | 2 | | |
| 806-10.05 | Rock Ditch Check | Linear Foot | 24 | | |
| 806-10.19 | Silt Fence | Linear Foot | 520 | | |
| 806-10.50 | Type C Berm | Linear Foot | 275 | | |

| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
|--------------|--|-------------|----------|-----------|--------|
| 206-10.00 | Class 1 Excavation | Cu. Yard | 70 | | |
| 206-55.00 | Temporary Shoring | Lump Sum | 1 | | |
| 216-05.00 | Removal of Bridges | Lump Sum | 1 | | |
| 503-10.11A | Bridge Approach Slab (Minor Road) | Sq. Yard | 110 | | |
| 702-12.12 | Galvanized Structural Steel Piles (12 in.) | Linear Foot | 285 | | |
| 702-60.00 | Pre-Bore for Piling | Linear Foot | 185 | | |
| 702-70.00 | Pile Point Reinforcement | Each | 10 | | |
| 703-20.03 | Class B Concrete (Substructure) | Cu. Yard | 23.7 | | |
| 703-42.19A | Type D Barrier | Linear Foot | 165 | | |
| 703-42.22 | Slab on Concrete Beam | Sq. Yard | 200 | | |
| 705-60.50A | 27 in., Prestressed Concrete Spread Box Beam | Linear Foot | 263 | | |
| 715-10.01 | Vertical Drain at End Bents | Each | 2 | | |
| 716-10.00 | Plain Neoprene Bearing Pad | Each | 8 | | |

| | Signing/Striping Items | | | | |
|--------------|---|----------|----------|-----------|--------|
| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
| 616-10.05 | Construction Signs | Sq. Foot | 111 | | |
| 616-10.08 | Advanced Warning Rail System | Each | 2 | | |
| 616-10.09 | Flag Assembly | Each | 2 | | |
| 616-10.25 | Channelizer (Trim Line) | Each | 15 | | |
| 616-10.31 | Type III Moveable Barricade with Lights | Each | 4 | | |

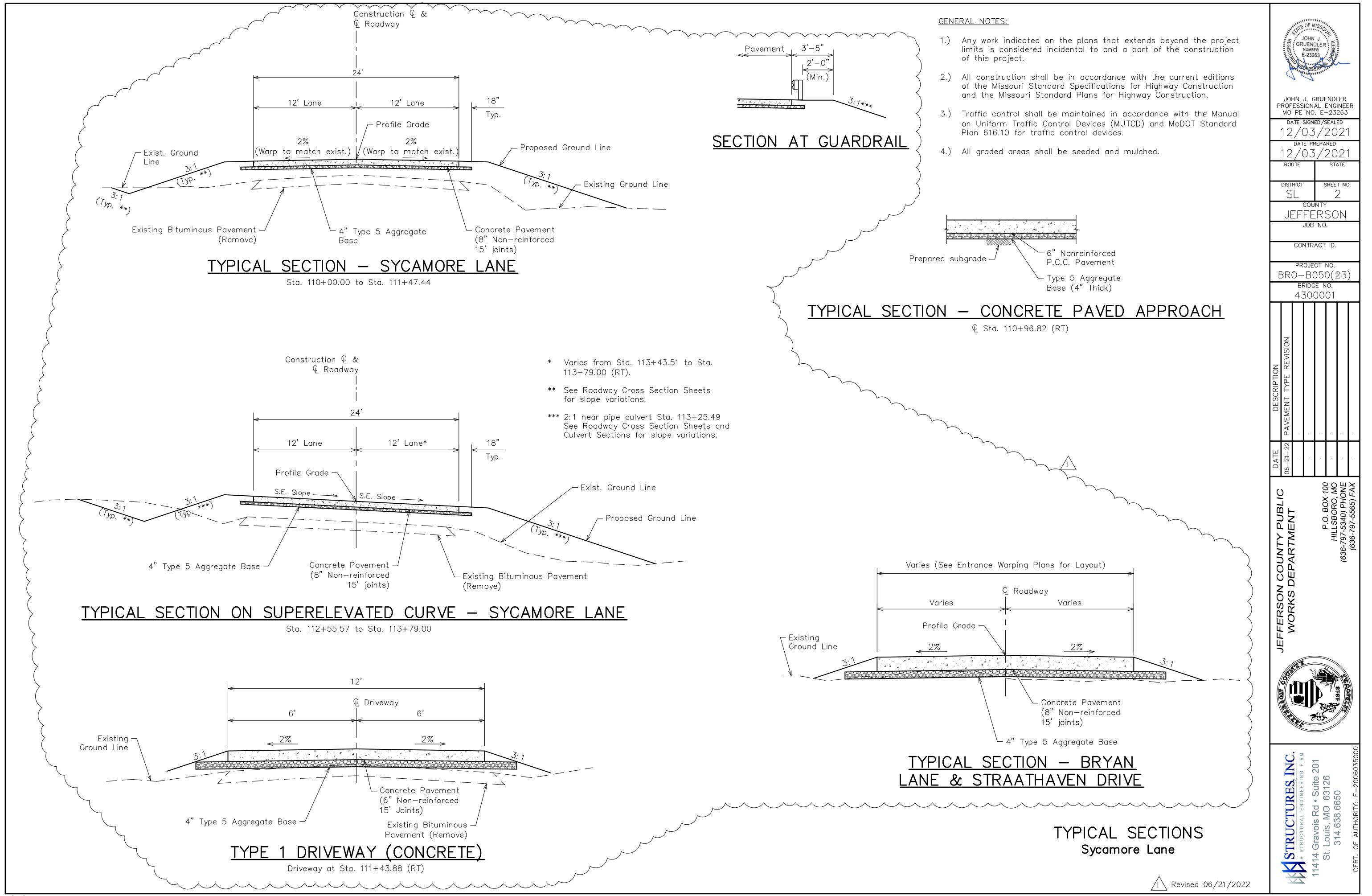
Subtotal=

| | Landscaping Items | | | | |
|--------------|-------------------|------|----------|-----------|--------|
| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount |
| 805-10.00 | Seeding | Acre | 0.5 | | |
| | | | | Subtotal= | |

TOTAL =

| | Sycamore Lane Bridge Replacement Concrete Bid Alternate | | | | | |
|--------------|---|----------|----------|-----------|--------|--|
| Pay Item No. | Description | Unit | Quantity | Unit Cost | Amount | |
| 203-60.00 | Compacting Embankment | Cu. Yard | 469 | | | |
| 304-05.04 | Type 5 Aggregate for Base (4 in. thick) | Sq. Yard | 1062 | | | |
| 310-50.02 | Gravel (A) or Crushed Stone (B) | Tons | 150 | | | |
| 502-11.06 | Concrete Pavement (6 in. Non-Reinforced) | Sq. Yard | 30.1 | | | |
| 502-13.06 | Concrete Pavement (6 in. Non-Reinforced, 15 Ft. Joints) | Sq. Yard | 66.2 | | | |
| 502-13.08 | Concrete Pavement (8 in. Non-Reinforced, 15 Ft. Joints) | Sq. Yard | 847.5 | | | |
| 616-10.05 | Construction Signs | Sq. Foot | 198 | | | |
| 616-10.25 | Channelizer (Trim Line) | Each | 30 | | | |
| | | | | Subtotal= | | |

ALTERNATE TOTAL =



| Pay Item No. | Description | Unit | Quantity |
|--------------|---|-------------|----------|
| 201-30.00 | Clearing and Grubbing | Acre | 0.8 |
| 202-20.10 | Removal of Improvements | Lump Sum | |
| 203-10.00 | Class A Excavation | Cu. Yard | 1247 |
| 203-60.00 | Compacting Embankment | Cu. Yard | 469 |
| 206-30.00 | Class 3 Excavation | Cu. Yard | 41 |
| 304-05.04 | Type 5 Aggregate for Base (4 in. thick) | Sq. Yard | 1062 |
| 310-50.02 | Gravel (A) or Crushed Stone (B) | Tons | 150 |
| 401-12.09 | Bituminous Pavement Mixture PG64-22 (BP-1) | Tons | <u> </u> |
| 401-30.00 | Bituminous Pavement Mixture PG64-22 (Base) | Tons | 395.5 |
| 407-10.05 | Tack Coat | Gal. | 48 |
| 502-11.06 | Concrete Pavement (6 in. Non-Reinforced) | Sq. Yard | 30,1 |
| 502-13.06 | Concrete Pavement (6 in. Non-Reinforced, 15 Ft. Joints) | Šq. Yard | 66.2 × |
| 502-13.08 | Concrete Pavement (8 in. Non-Reinforced, 15 Ft. Joints) | Sq. Yard | 847.5 |
| 604-40.11 | Pipe Collar, Type A | Each | 3 |
| 606-10.60 | MGS Guardrail | Linear Foot | 57 |
| 606-10.69 | MGS Bridge Approach Transition Section (Minor Route) | Each | 3 |
| 606-10.99 | Modified MGS Bridge Approach Transition Section (Minor Route) | Each | 1 |
| 606-30.14 | Type A Crashworthy End Terminal (MASH) | Each | 3 |
| 611-30.20 | Furnishing Type 2 Rock Blanket | Cu. Yard | 592 |
| 611-30.40 | Placing Type 2 Rock Blanket | Cu. Yard | 592 |
| 611-99.05 | Rock Blanket Bedding | Sq. Yard | 793 |
| 618-10.00 | Mobilization | Lump Sum | 1 |
| 627-40.00 | Contractor Furnished Surveying and Staking | Lump Sum | 1 |
| 726-10.15 | 15 in. Pipe Group A | Linear Foot | 65 |
| 726-10.54 | 54 in. Pipe Group A | Linear Foot | 6 |
| 732-06.15A | 15 in. or Allowed Substitute Group A Flared End Section | Each | 4 |
| 732-06.54A | 54 in. or Allowed Substitute Group A Flared End Section | Each | 2 |
| 806-10.05 | Rock Ditch Check | Linear Foot | 24 |
| 806-10.19 | Silt Fence | Linear Foot | 520 |
| 806-10.50 | Type C Berm | Linear Foot | 275 |

st Added quantities to be placed as directed by Engineer.

| | Bridge Items |
|--------------|--|
| Pay Item No. | Description |
| 206-10.00 | Class 1 Excavation |
| 206-55.00 | Temporary Shoring |
| 216-05.00 | Removal of Bridges |
| 503-10.11A | Bridge Approach Slab (Minor Road) |
| 702-12.12 | Galvanized Structural Steel Piles (12 in.) |
| 702-60.00 | Pre-Bore for Piling |
| 702-70.00 | Pile Point Reinforcement |
| 703-20.03 | Class B Concrete (Substructure) |
| 703-42.19A | Type D Barrier |
| 703-42.22 | Slab on Concrete Beam |
| 705-60.50A | 27 in., Prestressed Concrete Spread Box Beam |
| 715-10.01 | Vertical Drain at End Bents |
| 716-10.00 | Plain Neoprene Bearing Pad |
| | |
| | |

| Signing/Striping Items | | | | | | | |
|------------------------|---|----------|----------|--|--|--|--|
| Pay Item No. | Description | Unit | Quantity | | | | |
| 616-10.05 | Construction Signs | Sq. Foot | (198) | | | | |
| 616-10.08 | Advanced Warning Rail System | Each | 2 | | | | |
| 616-10.09 | Flag Assembly | Each | 2 | | | | |
| 616-10.25 | Channelizer (Trim Line) | Each | 30 | | | | |
| 616-10.31 | Type III Moveable Barricade with Lights | Each | 4 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | Landscaping Items |
|--------------|-------------------|
| Pay Item No. | Description |
| 805-10.00 | Seeding |
| | |

| Unit | Quantity |
|-------------|----------|
| Cu. Yard | 70 |
| Lump Sum | 1 |
| Lump Sum | 1 |
| Sq. Yard | 110 |
| Linear Foot | 285 |
| Linear Foot | 185 |
| Each | 10 |
| Cu. Yard | 23.7 |
| Linear Foot | 165 |
| Sq. Yard | 200 |
| Linear Foot | 263 |
| Each | 2 |
| Each | 8 |
| | |
| | |

| Unit | Quantity |
|------|----------|
| Acre | 0.5 |
| | |

| | ROF MO 12 DETA RS DIST | | | ENDI ENG 22 CHEC JC SC SC | INEE 263) 2 ^ CKEC JG T NC 3 | 1 | |
|------------------|---------------------------------------|---|--|--|--|--|--|
| E | 3R(|)— Bf | B(|)5(E N |)(2 10. | 23) |) |
| DATE DESCRIPTION | 06-21-22 PAVEMENT TYPE REVISION | | | 00 | | | |
| | | | | | | (636-7 | (636-797-5565) FAX |
| | CTURES INC | URAL ENGINEERING FIRM | | 114 14 Gravols Rd • Sulte 201 04 1 0000 MAC 62426 | 115, 1VIU 03 120 1 620 6660 | 0000.000.+ | CERT. OF AUTHORITY: E-2006035000 |
| | | JEFFERSON COUNTY PUBLIC DATE DESCRIPTION MORKS DEPARTMENT 06-21-22 PAVEMENT TYPE REVISION DATE DATAGENT 06-21-22 PAVEMENT TYPE REVISION DATE DATAGENT DATE DESCRIPTION DATE DESCRIPTION DESCRIPTION DATE DESCRIPTION DATE | DATE DESCRIPTION JEFERSON COUNTY PUBLIC DATE DESCRIPTION DETAILED DATE DESCRIPTION DETAILED DATE DESCRIPTION DETAILED DATE DESCRIPTION DETAILED DATE DESCRIPTION DETAILED DATE DESCRIPTION DETAILED DATE DESCRIPTION DETAILED DATE DESCRIPTION DESCRIPTI | CONTRACTOR DATE NO PROFESSION DATE PF 12/22 DETAILED RSN DISTRICT SL DETAILED ROUT STORE DECULION DESCRIPTION DESC | COUNTY DETAILED RSN JEFERSN AUXSOU COUNTY JEFERSN COUNTY JEFERSN DISTRICT SL COUNTY JOB NO PROJECT BRO-BOSC BRIDGE N 43000 COUNT BRO-BOSC COUNTY JOB NO COUNTY JOB NO C | COUNTY JEFFERSO BROJECT NO. BROJECT NO. B | GRUENDLER NUMBER LE22263 DATE PREPARED 12/22/2021 DATE PREPARED 12/22/2021 DETAILED STATE MISSOURI DISTRICT SYCAMORE L JOB NO. PROJECT NO. BRO-BO50(23) BRIDGE NO. 4300001 UNIC SI DISTRICT SYCAMORE NO. BRO-BO50(23) DISTRICT SYCAMORE DISTRICT SYCAMORE DISTRICT SYCAMORE DISTRICT SYCAMORE DISTRICT SYCAMORE DISTRICT SYCAMORE DISTRICT SYCAMORE DISTRICT DISTRICT SYCAMORE DISTRICT DISTRICT SYCAMORE DISTRICT DISTRICT DISTRICT SYCAMORE DISTRICT DIS |

SUMMARY OF QUANTITIES Sycamore Lane

/ Revised 06/21/2022

| | | | | | | | | | | | | | | | GRA | | MOVALS | | | | |
|---|--|--|--|-----------------|------------------------|-------------------------------|--|-------------------------------------|----------------|------------------------|--------------------|------------------|----------------|--------------------------------|------------|-------------------|------------------|--|-----------------------------|--------------------------|-----------------------|
| | | | REMO | ALOF IMPROVEN | 1ENTS (202-20.10) | | | | | | | | | T | | ARING AND | CLASS | A COM | MPACTING | | |
| GIN STATION | END STATION | ROADWAY | LOCATION | | [| ESCRIPTION | | QUANTITY | UNITS | BEGIN STATIC | N END STATION | ROAD | WAY | LOCATIO | NG | | EXCAVAT | | BANKMENT | REMARKS | |
| 110+00 | | SYCAMORE LANE | LT & RT | SAWCUT | | | | 21 | LF | 1 | | | | | 2 | ACRE 201-30.00 | CU YI 203-10. | | CU YD Q3- <i>60.00</i> ∧ | | |
| 110+00 | 112+00 | SYCAMORE LANE | LT & RT | PAVEMENT | | | | 451 | SY | 110+00 | 111+67.47 | SYCAMORE LANE | | LT & RT | | 0.3 | 243 | | 141 / I | | |
| 110+31 | | SYCAMORE LANE (AT WILLOW DRIVE) | RT | SAWCUT | | | | 21 | LF | 112+36.09 | 113+79 | SYCAMORE LANE | | LT & RT | ¢ | 0.3 | 131 | | 326 | | |
| 110+86 110+89 | | SYCAMORE LANE SYCAMORE LANE | RT | 12" CMP | EWAY ENTRANCE | | | 21 19 | LF | 111+67.47 | 112+36.09 | CREEK SECTION | | LT & RT | | 0.2 | 873 | | 2 | | |
| 110+89 | | SYCAMORE LANE | RT | MAILBOX RELOC | | | | 19 | FA | ┥┝─── | | | | | 0741 | | | $\rightarrow \rightarrow $ | | SS MATERIAL TO BE DISPO | |
| 111+07 | | SYCAMORE LANE | LT | TEMPORARY GR | | | | 272 | SY | - | | | | T | OTAL | 0.8 | 1247 | | 469 AT A | A LOCATION PROVIDED B | BY CONTRACTOR |
| 111+40 | | SYCAMORE LANE | RT | 12" CMP | | | | 21 | LF | - | | | | | | | | | | | |
| 111+40 | 111+56 | SYCAMORE LANE | RT | ASPHALT DRIVE | WAY | | | 50 | SY | | | | | | BASES AN | ND AGGREGAT | E SURFACES | | | | |
| 111+74 | | SYCAMORE LANE | RT | SIGN, POST & FO | | | | 1 | EA | _ | | | | (| | | 1 | TYPE 5 | GRAVEL (A) OR | | |
| 111+74 | | SYCAMORE LANE | LT & RT | POSTS & RAILIN | | | | 60 | LF | | | | | | LENGTH | WIDTH | V | ATE FOR BASE | CRUSHED STONE (B) | | |
| 111+87 111+87 | | SYCAMORE LANE SYCAMORE LANE | LT & RT | SIGN, POST & FO | CONCRETE, CONCRETE | FILL & BOULDERS | | 1 | LS FA | BEGIN STATI | ON END STATION | N ROADWA | | | FT | FT | | n. THICK) SQ YD | TONS | REM | IAKKS |
| 111+87 | | SYCAMORE LANE | RT | POSTS & RAILIN | | | | 65 | LF | | | | | | | | | 14-05-04 | 310-50.02 | | |
| 111+89 | | SYCAMORE LANE | LT | 48" CMP (BYPAS | | | | 4 | EA | 110+00.00 | 111+47.44 | SYCAMORE LANE | l | LT & RT | 147.44 | 27.00 | | 431 | | | |
| 111+95 | | SYCAMORE LANE | RT | CONCRETE BAR | RIER SECTION | | | 1 | EA | 112+55.57 | 113+79.00 | SYCAMORE LANE | l | LT & RT | 123.43 | 27.00 | | 357 | | | |
| 112+25 | | SYCAMORE LANE | LT & RT | PAVEMENT | | | | 359 | SY | 110+96.82 | | SYCAMORE LANE | | RT | 17.10 | VARIES | | 36 | | CONCRETE PAVED AF | |
| 112+32 | | SYCAMORE LANE | LT | SIGN, POST & FO | | | | 1 | EA | 111+43.88 | | SYCAMORE LANE | | RT > | 44.18 | VARIES | | 83 < | | TYPE I DRIVEWAY AP | |
| 112+33 112+35 | | SYCAMORE LANE SYCAMORE LANE | | CONCRETE BARI | | | | 1 | EA FA | 113+03.74 110+55.00 | | SYCAMORE LANE | | \ | VARIES | VARIES VARIES | | 155 | 150 | BRYAN LANE/STRAAT | |
| 112+35 | | SYCAMORE LANE | RT | SIGN, POST & FO | | | | 1 | EA | | 113+20.00 | | | (| | | , <i>,</i> | | | . Lini On All DIFA33 | |
| 113+00 | | SYCAMORE LANE | RT | SIGN, POST & FO | | | | 1 | EA | | | | | | | | | | | | |
| 113+79 | | SYCAMORE LANE | LT & RT | SAWCUT | | | | 20 | LF | | | | | | | TOTA | | 1062 | 150 | | |
| | | | | | | | | | | 4 | | | | | | | | * | | | |
| | | | <u> </u> | <u> </u> | | \sim \sim $-$ | TOTAL (202-20.10 | | | | | | | | | | | PIPE CULVERTS | | - | - |
| \sim | | | | FLEX | BLE PAVEMENTS | | | \vee \vee \vee | | | T | | | CLASS | | - | 15 IN. PIPE | 54 IN. PIPE | 15 IN. OR ALLOWED | 54 IN. OR ALLOWED | |
| | | | | | INOUS | BITUMINOUS | | | | | ٦) | BEGIN | END | EXCAVA | TION | TYPE A | GROUP A | GROUP A | SUBSTITUTE GROUP A | | |
| | | | | PAVE | MENT | PAVEMENT | ΤΑϹΚ ϹΟΑΤ | | - | | K | STRUCTURE | STRUCTUR | E CU Y | D | EA | LF | IF | FLARED END SECTION EA | FLARED END SECTION EA | REMARKS |
| GIN STATION | END STATIO | N ROADWAY | LOCATION | MIXTURE PO | | URE PG64-22 (BAS | | | REMARKS | | K | | | 206-30 | | 604-40.11 | 726-10.15 | 726-10.54 | 732-06.15A | 732-06.54A | |
| | | | | 401- | | TONS 401-3 0.00 | GAL 407-10.05 | | | | | 4FE | 1FE | 13 | | 3 | | 6 | | 2 | CLASS III RCP (GASKET |
| 110+00.00 | 111+47.44 | SYCAMORE LANE | LT & RT | 401- | 12.09 | 175.7 | 20.3 | | | | | 6FE | 5FE | 20 | | | 42 | | 2 | | CLASS IV RCP (GASKET |
| 112+55.57 | 113+79.00 | | LT & RT | 3 | 5.2 | 144.7 | 16.8 | | | | K | 8FE | 7FE | 8 | | | 23 | | 2 | - | CLASS IV RCP (GASKET |
| 111+43.88 | | SYCAMORE LANE | RT | | .3 | 15.1 | 3.5 | TYPE I DRIVEV | VAY APPROACH | | ΧΛ | | | DTAL 41 | | 2 | 65 | 6 | 4 | 2 | |
| 113+03.74 | | SYCAMORE LANE | LT | 14 | l.3 | 60.0 | 7.0 | BRYAN LANE/ | STRAATHAVEN D | RIVE | | | 10 | | | 3 | 60 | 0 | 4 | Z | |
| | | | | | | | | | | | -K | | | | | | | | | | |
| | | | TOT | |).5 | 395.5 | 48 | | | | $-\gamma$ | | | | | | | | | | |
| \frown | $\overline{}$ | ~~~~~~ | | | | | | | | \rightarrow | 4 | | | | | | ROA | DSIDE DEVELOP | MENT | | |
| | 1 | | | | RIGID PAVEMEN | | | | | | | | | | | | 1 | | | SEEDING | |
| | | | | EMENT PAVE | | (| CONCRETE PAVEMENT 6 IN. NON-REINFORCED, | CONCRETE PAVEN (8 IN. NON-REINFC | N | | | | | BEGIN | STATION | END STATION | | ROADWAY | LOCATION | ACRE | |
| EGIN STATION | END STATION | I ROADWAY LOO | | IGTH WI | • | YD | 15 FT. JOINTS) | 15 FT. JOINTS | | REMARKS | | | | | | | | | | 805-10.00 | |
| | | | | FT F | т | (| SQ YD | SQ YD | | | | | | | 0+00 | 113+83.61 | SYCAMORE | | LT | 0.26 | |
| | | | | | | 11.06 | 502-13.06 | 502-13.08 | } | | | | | 110 | 0+00 | 113+83.61 | SYCAMORE | LANE | RT | 0.24 | |
| 110+00.00 | 111+47.44 | The second set also have be according to the second s | | 7.44 24 | 00 | ••• | | 393.0 | | \frown | | | | | | | | | | | |
| 112+55.57 111+43.88 | 113+79.00 | | | 3.43 VAF | | | 66.2 | 323.4 | | RIVEWAY APPROA | <u>_</u> | | | | | | | | TOTAL | 0.5 | |
| 111+43.88 | 1 | | | RIES VAI | | | 00.2 | 131.1 | | ANE/STRAATHAVE | | | | | | | | | | | |
| 110+96.82 | | SYCAMORE LANE | | 7.10 VAI | | 0.1 | | | | TE PAVED APPROA | | | | | | | | | | | |
| | | | | | | \ \ | | | | | | | | | | | | | | | |
| | | | | | TOTAL | 0.1 | 66.2 | 847.5 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | TAL CONSTRUCTION | 1 | | | | , | | | | | | | | |
| | | | | MGS | MGS BRIDGE APPROACH | MODIFIED MO | SS BRIDGE TYPE A | FURNISHING T | YPE 2 PLACING | TYPE 2 ROCK | BLANKET | CO | NTRACTOR | | | | | | | | |
| | | | | GUARDRAIL | TRANSITION SECTIO | APPROACH TR | ANSITION END TERMINA | ROCK BLANK | KET ROCK BL | ANKET BEI | DDING MOBI | LIZATION FURNISH | | | | | | | | | |
| GIN STATION | END STATION | ROADWAY | LOCATION | | (MINOR ROUTE) | SECTION (MIN | OR ROUTE) (MASH) | | | | | | D STAKING | | | REMA | RKS | | | | |
| , I | | | | LF 606-10.60 | EA | EA <i>606-10.</i> | 99 EA | CU YD 611-30.20 | CU 611-3 | | Q YD -99.05 618 | LS 3-10.00 6. | LS 27-40.00 | | | | | | | | |
| | | | | 000-10.00 | 606-10.69 | 000-10. | 606-30.14 | 011-50.20 | 011-30 | 011 | 55.05 010 | , 10.00 0. | | | | | | | | | |
| | | | | | | | 1 | | | | | | | SEE GUARDRAIL | | | | | CTION | | |
| 110+62 | 111+56 | SYCAMORE LANE | LT | | 1 | | | I I | | | | | | | | | | CL. TYPE E END SE | | | |
| 111+49 | 111+65 | SYCAMORE LANE | RT | 12 | 1 | 1 | | | | | • | | 2 | JLL OUARDRAIL | | TO REQUIK | LIVILINIS - INC | A DESCRIPTION OF A DESC | | | |
| 111+49 112+40 | 111+65 112+85 | SYCAMORE LANE SYCAMORE LANE | RT LT | 13 25 | 1 1 1 1 | 1 | 1 | | | | | | c | SEE GUARDRAII | PLAN FOR R | ADIUS REQUIR | REMENTS | | TION | | |
| 111+49 112+40 112+47 | 111+65 112+85 113+67 | SYCAMORE LANE | RT | | 1 1 1 | 1 | <u>1</u> 1 | | | | | | | SEE GUARDRAIL SEE GUARDRAIL | | | | | | | |
| 111+49 112+40 112+47 113+10 | 111+65 112+85 113+67 113+70 | SYCAMORE LANE SYCAMORE LANE SYCAMORE LANE | RT LT RT | 25 | 1 1 1 | 1 | 1 | 267 | 26 | 7 | 353 | | | | | | | | | | |
| 111+49 112+40 112+47 113+10 111+36 111+98 | 111+65 112+85 113+67 113+70 112+15 112+49 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT LT&RT LT&RT | 25 | 1 1 1 | | 1 1 1 | 267 231 | 26 23 | | 353 299 | | | | | | | | | | |
| 111+49112+40112+47113+10111+36111+98112+78 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT LT & RT LT & RT RT | 25 | 1 1 1 | | 1 | 231 61 | 23 61 | 1 | 299 91 | | | | | | | | | | |
| 111+49 112+40 112+47 113+10 111+36 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT LT&RT LT&RT | 25 | 1 1 1 | | | 231 | 23 | 1 | 299 | | | | | | | | | | |
| 111+49112+40112+47113+10111+36111+98112+78 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT LT & RT LT & RT RT | 25 | | | | 231 61 | 23 61 | 1 | 299 91 | | | | | | | | | | |
| 111+49112+40112+47113+10111+36111+98112+78 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT LT & RT LT & RT RT | 25 | | | | 231 61 | 23 61 | 1 | 299 91 | | | | | | | | | | |
| 111+49112+40112+47113+10111+36111+98112+78 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT LT & RT LT & RT RT | 25 | 1 1 1 1 | | | 231 61 | 23 61 | 1 | 299 91 | 1 | | | | | | | | | |
| 111+49112+40112+47113+10111+36111+98112+78 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT & RT RT RT LT & RT RT LT & RT LT & RT LT & RT RT LT & RT RT RT LT & RT | 25 19 | 1 1 1 1 | | | 231 61 33 | 23 61 33 | 1 | 299 91 50 | 1 | | | | | | | | | |
| 111+49112+40112+47113+10111+36111+98112+78 | 111+65 112+85 113+67 113+70 112+15 112+49 113+34 | SYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANESYCAMORE LANE | RT LT RT LT & RT RT RT LT & RT RT LT & RT LT & RT LT & RT RT LT & RT RT RT LT & RT | 25 19 | 1 1 1 1 | | | 231 61 33 | 23 61 33 | 1 | 299 91 50 | 1 | | | | | | | | | |

| | | | | GRADING AND REM | IOVALS | |
|---------------|-------------------------|---------------|----------|------------------------|--|----------------------------------|
| | | | | CLEARING AND | CLASS A | COMPACTING |
| | | ROADWAY | LOCATION | GRUBBING | EXCAVATION | EMBANKMENT |
| BEGIN STATION | GIN STATION END STATION | ROADWAY | LUCATION | ACRE | CU YD | CU YD |
| | | | | 201-30.00 | 203-10.00 | 203-60.00 🔨 |
| 110+00 | 111+67.47 | SYCAMORE LANE | LT & RT | 0.3 | <u>(</u> 243 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 141 VI |
| 112+36.09 | 113+79 | SYCAMORE LANE | LT & RT | 0.3 | 131 | 326 |
| 111+67.47 | 112+36.09 | CREEK SECTION | LT & RT | 0.2 | 873 | $)$ $)$ $)$ $)$ $)$ 2 \wedge |
| | | | | | | |
| | | | TOTAL | 0.8 | 1247 | 469 |

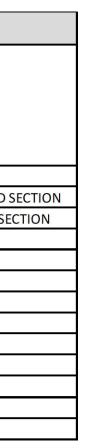
| | BASES AND AGGREGATE SURFACES | | | | | | | | | |
|---------------|------------------------------|---------------|----------|----------|-------------|--|--|------------------------------|--|--|
| BEGIN STATION | END STATION | ROADWAY | LOCATION | LENGTH | WIDTH FT | TYPE 5 AGGREGATE FOR BASE (4 in. THICK) SQ YD <u>304-05-04</u> | GRAVEL (A) OR CRUSHED STONE (B) TONS <i>310-50.02</i> | REMARKS | | |
| 110+00.00 | 111+47.44 | SYCAMORE LANE | LT & RT | 147.44 | 27.00 | 431 | | | | |
| 112+55.57 | 113+79.00 | SYCAMORE LANE | LT & RT | > 123.43 | 27.00 | 357 | | | | |
| 110+96.82 | | SYCAMORE LANE | RT | 17.10 | VARIES | 36 | | CONCRETE PAVED APPROACH | | |
| 111+43.88 | | SYCAMORE LANE | RT | > 44.18 | VARIES | 83 < | \land | TYPE I DRIVEWAY APPROACH | | |
| 113+03.74 | | SYCAMORE LANE | LT | VARIES | VARIES | 155 | $\frown \frown \frown \frown \frown$ | BRYAN LANE/STRAATHAVEN DRIVE | | |
| 110+55.00 | 113+20.00 | SYCAMORE LANE | LT | VARIES | VARIES | | 150 | TEMPORARY BYPASS | | |
| | | | | | <u> </u> | ^ / | \langle | | | |
| | | | | | | | | | | |
| | | | | | TOTAL | (1062 | 150 / | | | |
| | | | | | | | | | | |

| | | | | | PIPE CULVERTS | | | |
|-----------|-----------|-----------------------|------------------------|------------------------|------------------------|---|---|-----------------------------|
| BEGIN | END | CLASS 3 EXCAVATION | PIPE COLLAR, TYPE A | 15 IN. PIPE GROUP A | 54 IN. PIPE GROUP A | 15 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION | 54 IN. OR ALLOWED SUBSTITUTE GROUP A FLARED END SECTION | REMARKS |
| STRUCTURE | STRUCTURE | CU YD 206-30.00 | EA 604-40.11 | LF 726-10.15 | LF 726-10.54 | EA 732-06.15A | EA 732-06.54A | |
| 4FE | 1FE | 13 | 3 | | 6 | | 2 | CLASS III RCP (GASKET TYPE) |
| 6FE | 5FE | 20 | | 42 | | 2 | | CLASS IV RCP (GASKET TYPE) |
| 8FE | 7FE | 8 | | 23 | | 2 | | CLASS IV RCP (GASKET TYPE) |
| | | | | | | | | |
| | TOTAL | 41 | 3 | 65 | 6 | 4 | 2 | |

| | ROADSIDE DEVELOPMENT | | | | | | | | |
|----------------------|----------------------|---------------|----------|-----------|--|--|--|--|--|
| | | | | SEEDING | | | | | |
| BEGIN STATION | END STATION | ROADWAY | LOCATION | ACRE | | | | | |
| | | | | 805-10.00 | | | | | |
| 110+00 | 113+83.61 | SYCAMORE LANE | LT | 0.26 | | | | | |
| 110+00 | 113+83.61 | SYCAMORE LANE | RT | 0.24 | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | TOTAL | 0.5 | | | | | |

PAVEMENT ESTIMATE FACTORS

| E 5 AGGREGATE FOR BASE (4" THICK) | 0.22 TONS/YD ² COMPACTED |
|---------------------------------------|--|
| | |
| VEL & CRUSHED STONE | -Q.Q.39 TONS/YD2/INCH-COMPACTED |
| MINOUS PAVEMENT MIXTURE PG64-22(BASE) | <u>1.943 TÓN/ÝD3 COMPACTED MIXTURE</u> // |
| MINOUS PAVEMENT MIXTURE PG64-22(BP-1) | -1.948 TON/YD ³ COMPACTED MIXTURE |
| K COAT | -0.05-GAL/YD ² |
| | |



| | REGISTER | 1 | OF M UENI NUMBE 2-232 | ER | A STORET R | | - |
|-------------|---------------------------------|-------------------------------|--------------------------------|------------------------------|---------------------------------------|----------------------|----------------------------------|
| Ρ | ROF | ESS PE | J. G ION NO | AL . E- | ENG -23 | INE | ER |
| | | // | 22 | // | 20 | | |
| | det <i>i</i> RS | | st | | CHE J | JG |) |
| | | | SS | ΟΙ | JR shee | | <u> </u> |
| | S | L | COU | | Z | 1 | <i>.</i> |
| | JE | | FE | | | N | |
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| | | | OJE | | | | |
| | 380 | BF | - B (RIDG 30(| ΈN | 10. | 23 |) |
| | | +. | | | | | |
| DESCRIPTION | 06-21-22 PAVEMENT TYPE REVISION | | | | | | |
| | 2 PAV | | | | | | |
| DATE | 6-21-2 | • | | | | | |
| | | | | | | (636-797-5340) PHONE | (6 |
| , | VI STRIICTIRES INC | A STRUCTURAL ENGINEERING FIRM | | 11414 Gravols Ka • Sulte 201 | 31. LOUIS, INU 03 120 244 628 6660 | 0.000.000.00 | CERT. OF AUTHORITY: E-2006035000 |

SCHEDULE OF QUANTITIES Sycamore Lane

| | TOTAL QTY | TOTAL SIGN | | | | QTY TO | TAL SIGN | | | |
|--------------------------------|-------------------------|---|----------------|----------------|----------|------------------|----------|---|----------------------|--|
| SIZE | AREA QTY AREA RELOC | | | SI7F | ARFA OTY | TOTAL RELOC RE | | | | |
| | SQ.FT. EACH SQ.FT. EACH | | SIGN | | | I SQ.FT. EACH SG | | | ITEM TOTAL | _ |
| | WARNING SIGNS | DESCRIPTION | | | | DE SIGNS | | DESCRIPTION | NUMBER QTY | DESCRIPTION |
| WO1-1L 48X48 | | TURN (SYMBOL LEFT ARROW) | E05-1 | 36X48 | | | | GORE EXIT | 6122008 | IMPACT ATTENUATOR 40 MPH (SAND BARRELS) |
| WO1-1R 48X48 | | TURN (SYMBOL RIGHT ARROW) | | 48X36 | | | | EXIT OPEN | 6122009 | IMPACT ATTENUATOR 45 MPH (SAND BARRELS) |
| VO1-2L 48X48 | | CURVE (SYMBOL LEFT ARROW) | E05-2a | 48X36 | | | | EXIT CLOSED | 6122010 | IMPACT ATTENUATOR 50 MPH (SAND BARRELS) |
| VO1-2R 48X48 VO1-3L 48X48 | | CURVE (SYMBOL RIGHT ARROW) REVERSE TURN (SYMBOL LEFT ARROW) | | 60X24 48X24 | | | | ROAD WORK NEXT XX MILES END ROAD WORK | 6122012 6122014 | IMPACT ATTENUATOR 55 MPH (SAND BARRELS)IMPACT ATTENUATOR 60 MPH (SAND BARRELS) |
| VO1-3R 48X48 | | REVERSE TURN (SYMBOL RIGHT ARROW) | | | | | | PILOT CAR FOLLOW ME | 6122017 | IMPACT ATTENUATOR 65 MPH (SAND BARRELS) |
| WO1-4L 48X48 | 16.00 | REVERSE CURVE (SYMBOL LEFT ARROW) | G020-4a | | | | | PILOT CAR IN USE WAIT & FOLLOW | 6122019 | IMPACT ATTENUATOR 70 MPH (SAND BARRELS) |
| VO1-4R 48X48 | | REVERSE CURVE (SYMBOL RIGHT ARROW) | | 18X12 | | | | PILOT CAR IN USE WAIT & FOLLOW | 6122020 | REPLACEMENT SAND BARREL |
| VO1-4bL 48X48 VO1-4bR 48X48 | | DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS | | 36X24 24X18 | 6.00 | | | WORK ZONE (PLAQUE) END DETOUR | 6122030 6123000A | IMPACT ATTENUATOR (RELOCATION) TRUCK OR TRAILER MOUNTED ATTENUATOR (TM/ |
| WO1-4cL 48X48 | | TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS) | | 48X36 | 12.00 2 | 24.00 | | DETOUR (LEFT ARROW) | 6161007 | SPEED LIMIT AND STROBE LIGHT ASSEMBLY |
| WO1-4cR 48X48 | | TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS | | 48X36 | 12.00 2 | 24.00 | | DETOUR (RIGHT ARROW) | 6161008 2 | ADVANCED WARNING RAIL SYSTEM |
| WO1-6 60X30 | | HORIZONTAL ARROW (SYMBOL) | | 48X12 | 4.00 | | | STREET NAME (PLAQUE) | 6161009 2 | FLAG ASSEMBLY |
| VO1-6a 72X36 | | HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE) | | 48X18 | 6.00 (1 | 6.00 | | DETOUR (ARROW LEFT) | 6161012 | BUOYS (BOATS KEEP OUT) |
| VO1-7 60X30 VO1-7a 72X36 | | DOUBLE HEAD HORIZONTAL ARROW (SYMBOL) DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BAR | MO4-10R | 48818 | 6.00 | REGULATORY SIG | | DETOUR (ARROW RIGHT) | 6161013 6161014 / | BUOYS (NO WAKE) SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT) |
| VO1-8 18X24 | | CHEVRON (SYMBOL) | | 48X48 | 13.25 | | | STOP | 6161024 | CHANNELIZER (TRIM LINE) WITH LIGHT |
| WO1-8a 30X36 | | CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS) | | 48TRI. | | 34.65 | | YIELD | 6161025 \ 30 | CHANNELIZER (TRIM LINE) |
| VO3-1 48X48 | | STOP AHEAD (SYMBOL) | | | <u> </u> | 45.00 | | TO ONCOMING TRAFFIC (PLAQUE) | | TYPE III MOVEABLE BARRICADE |
| NO3-2 48X48 | | YIELD AHEAD (SYMBOL) | R1-3P | 30X12 | 2.00 | | | ALL WAY (PLAQUE) | 6161031 4 | TYPE III MOVEABLE BARRICADE WITH LIGHTS |
| NO3-3 48X48 NO3-4 48X48 | | SIGNAL AHEAD (SYMBOL) BE PREPARED TO STOP | R2-1 R3-1 | 36X48 48X48 | | | | SPEED LIMIT XX NO RIGHT TURN (SYMBOL) | 6161033 6161034 | DIRECTION INDICATOR BARRICADE DIRECTION INDICATOR BARRICADE, WITH LIGHT |
| WO3-5 48X48 | | SPEED LIMIT AHEAD | | 48X48 | | | | NO LEFT TURN (SYMBOL) | 6161040 | FLASHING ARROW PANEL |
| WO4-1L 48X48 | 16.00 | MERGE (SYMBOL FROM LEFT) | R3-3 | 36X36 | 9.00 | | | NO TURNS | 6161047 | TYPE III OBJECT MARKER |
| WO4-1R 48X48 | | MERGE (SYMBOL FROM RIGHT) | | 48X48 | | | | NO U-TURN (SYMBOL) | 6161052 | WARNING LIGHT, TYPE B |
| VO4—1aL 48X48 VO4—1aR 48X48 | | MERGE (ARROW SYMBOL) | R3-7L R3-7R | | | | | LEFT LANE MUST TURN LEFT | 6161055 6161070 | SEQUENTIAL FLASHING WARNING LIGHT TUBULAR MARKER |
| W04-10R 48X48 W05-1 48X48 | | MERGE (ARROW SYMBOL) ROAD/BRIDGE/RAMP NARROWS | | 36X48 | | | | RIGHT LANE MUST TURN RIGHT DO NOT PASS | 6161095 | RADAR SPEED ADVISORY SYSTEM |
| VO5-3 48X48 | | ONE LANE BRIDGE | R4-2 | 36X48 | | | | PASS WITH CARE | | CHANGEABLE MESSAGE SIGN, |
| WO5-5 48X48 | 16.00 | NARROW LANES | R4-8a | 36X48 | 12.00 | | | KEEP LEFT (HORIZONTAL ARROW) | 6161096 | COMMISSION FURNISHED/RETAINED |
| VO6-1 48X48 | | DIVIDED HIGHWAY (SYMBOL) | R4-7a | 36X48 | | | | KEEP RIGHT (HORIZONTAL ARROW) | | CHANGEABLE MESSAGE SIGN W/O COMM. |
| NO6-2 48X48 NO6-3 48X48 | | DIVIDED HIGHWAY END (SYMBOL) | R5-1 R5-1a | 30X30 36X24 | | | | DO NOT ENTER WRONG WAY | 6161098A | INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| W07-3a 30X24 | | TWO WAY TRAFFIC (SYMBOL) NEXT XX MILES (PLAQUE) | R5-10 R6-1L | | | | | ONE WAY ARROW (LEFT) | 6161099 | CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED |
| VO8-1 48X48 | | BUMP | R6–1R | | 6.75 | | | ONE WAY ARROW (RIGHT) | 6162000A | WORK ZONE TRAFFIC SIGNAL SYSTEM |
| WO8-2 48X48 | | DIP | R6-2L | | | | | ONE WAY (LEFT) | 6162002 | TEMPORARY LONG-TERM RUMBLE STRIPS |
| VO8-3 48X48 | | PAVEMENT ENDS | R6-2R | | | | | ONE WAY (RIGHT) | 6162004 | TEMPORARY SHORT-TERM RUMBLE STRIPS |
| NO8-4 48X48 NO8-5 48X48 | | SOFT SHOULDER SLIPPERY WHEN WET (SYMBOL) | R9-9 | 24X12 | 2.00 | | | SIDEWALK CLOSED SIDEWALK CLOSED AHEAD, | 6173600D | TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED |
| VO8-5 48X48 | | TRUCK CROSSING | | 24X18 | 3.00 | | | (ARROW LEFT) CROSS HERE | 01750000 | TEMPORARY TRAFFIC BARRIER |
| WO8-6c 48X48 | | TRUCK ENTRANCE | | | | | | SIDEWALK CLOSED AHEAD, | 6173602B | CONTRACTOR FURNISHED/COMMISSION RETAINED |
| WO8-7 36X36 | | LOOSE GRAVEL | | 24X18 | | | | (ARROW RIGHT) CROSS HERE | 6174000A | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| VO8-7a 36X36 VO8-9 48X48 | | FRESH OIL/LOOSE GRAVEL LOW SHOULDER | | 24X36 | | 10.00 | | STOP HERE ON RED (45° ARROW) ROAD CLOSED | 6175010A | RELOCATING TEMPORARY TRAFFIC BARRIER |
| WO8-9 48X48 WO8-11 48X48 | | UNEVEN LANES | R11-2 | 46X30 | 10.00 1 | 10.00 | | ROAD CLOSED XX MILES AHEAD | 6176000B | COMMISSION FURNISHED/RETAINED |
| VO8-12 48X48 | | NO CENTER LINE | R11-3a | 60X30 | 12.50 | | | LOCAL TRAFFIC ONLY | | TEMP. TRAFFIC BARRIER HEIGHT TRANSITION |
| WO8-15 48X48 | 16.00 | GROOVED PAVEMENT | | 60X30 | | 12.50 | | ROAD CLOSED TO THRU TRAFFIC | 6177000B | COMMISSION FURNISHED/RETAINED |
| W08-15P 30X24 | | MOTORCYCLE (PLAQUE) | CONST-3A | | | | | FINE SIGN | 6208064A | TEMPORARY RAISED PAVEMENT MARKER |
| NO8-17 48X48 NO8-17P 30X24 | | SHOULDER DROP-OFF (SYMBOL) | CONST-3X | 56X12 | 4.67 | MISCELLANEOUS | | SPEEDING/PASSING (PLATE) | 9029400 9029401 | TEMPORARY TRAFFIC SIGNALSTEMPORARY TRAFFIC SIGNALS AND LIGHTING |
| W10-1 42RND. | | SHOULDER DROP-OFF (PLAQUE) RAILROAD CROSSING | CONST-5 | 48X.36 | 12 00 | | | POINT OF PRESENCE | 9029401 | IEMPORART TRAFFIC SIGNALS AND LIGHTING |
| WO12-1 24X24 | | DOUBLE DOWN ARROW (SYMBOL) | CONST-5 | | | | | POINT OF PRESENCE | | |
| WO12-2 48X48 | | LOW CLEARANCE (SYMBOL) | CONST-7 | 48X24 | 8.00 | | | RATE OUR WORK ZONE | | |
| V012-2X 24X18 | | LOW CLEARANCE (PLAQUE) | | 72X36 | | | | RATE OUR WORK ZONE | | |
| VO12-2a 84X24 VO12-4 120X60 | | OVERHEAD LOW CLEARANCE (FEET AND INCHES) LOW CLEARANCE XX FT XX IN XX MILES AHEAD | CONST-8 | | | | | WORK ZONE NO PHONE ZONE | | of adjusting and/or |
| V012-4 120X60 V012-5 120X60 | | WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD | SPECIAL | | 10.00 1 | 10.00 | | BRYAN LANE / STRAATHAVEN DRIVE) | <u> </u> | moveable barricades and |
| VO13-1 30X30 | | ADVISORY SPEED (PLAQUE) | | | | | | | | on signs, as directed by eer, will be considered |
| WO16-2 30X24 | | XXX FEET (PLAQUE) | | | | | | | | covered by the contract |
| VO16-3 30X24 | | X MILE (PLAQUE) | | | | | | | unit price | for Construction Signs. |
| VO20-1 48X48 VO20-2 48X48 | | ROAD/BRIDGE/RAMP WORK AHEAD DETOUR AHEAD | | | | | | | | |
| VO20-2 48×48 VO20-3 48×48 | | ROAD CLOSED AHEAD | | | | | | | | |
| VO20-4 48X48 | | ONE LANE ROAD AHEAD | 616-10.0 |)5 | (| TOTAL Y | | | • | |
| VO20-5 48X48 | | RIGHT/CENTER/LEFT LANE CLOSED AHEAD | CONSTRU | | SIGNS (| 198 | | | | |
| VO20-5a 48X48 | | 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD | | | | | TAL | | | |
| VO20-6a 48X48 VO20-7a 48X48 | | RIGHT/CENTER/LEFT LANE CLOSED FLAGGER (SYMBOL) WITH FLAGS | RELOCAT | EN 21(| SNIC | | U | | | |
| WO20-70 48×48 WO21-2 36×36 | | FRESH OIL | | | | | | | | |
| WO21-5 48X48 | | SHOULDER WORK AHEAD | | | | | | | | |
| WO22-1 48X48 | | BLASTING ZONE AHEAD | | | | | | | | |
| NO22-2 42X36 | | TURN OFF 2-WAY RADIO AND PHONE END BLASTING ZONE | | | | | | | | Traffic Control Quantitie |
| VO22-3 42X36 | | | | | | | | | | Sycamore Lane |

/ Revised 06/21/2022

4300001 z الله : Ц Ц EMEN C ٩ 2 DA 06-2 P.O. BOX 100 HILLSBORO, MO (636-797-5340) PHONE (636-797-5565) FAX JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT STATISTICS OF STRUCTURES, INC. A STRUCTURAL ENGINEERING FIRM 11414 Gravois Rd • Suite 201 St. Louis, MO 63126 314.638.6650

STATE OF MISS

JOHN J. GRUENDLER NUMBER E-23263 Cokessio

1

JOHN J. GRUENDLER PROFESSIONAL ENGINEER MO PE NO. E-23263

DATE PREPARED 12/22/2021

STATE MISSOURI

COUNTY JEFFERSON

ROUTE SYCAMORE LN JOB NO.

PROJECT NO. BRO-B050(23) BRIDGE NO.

CHECKED

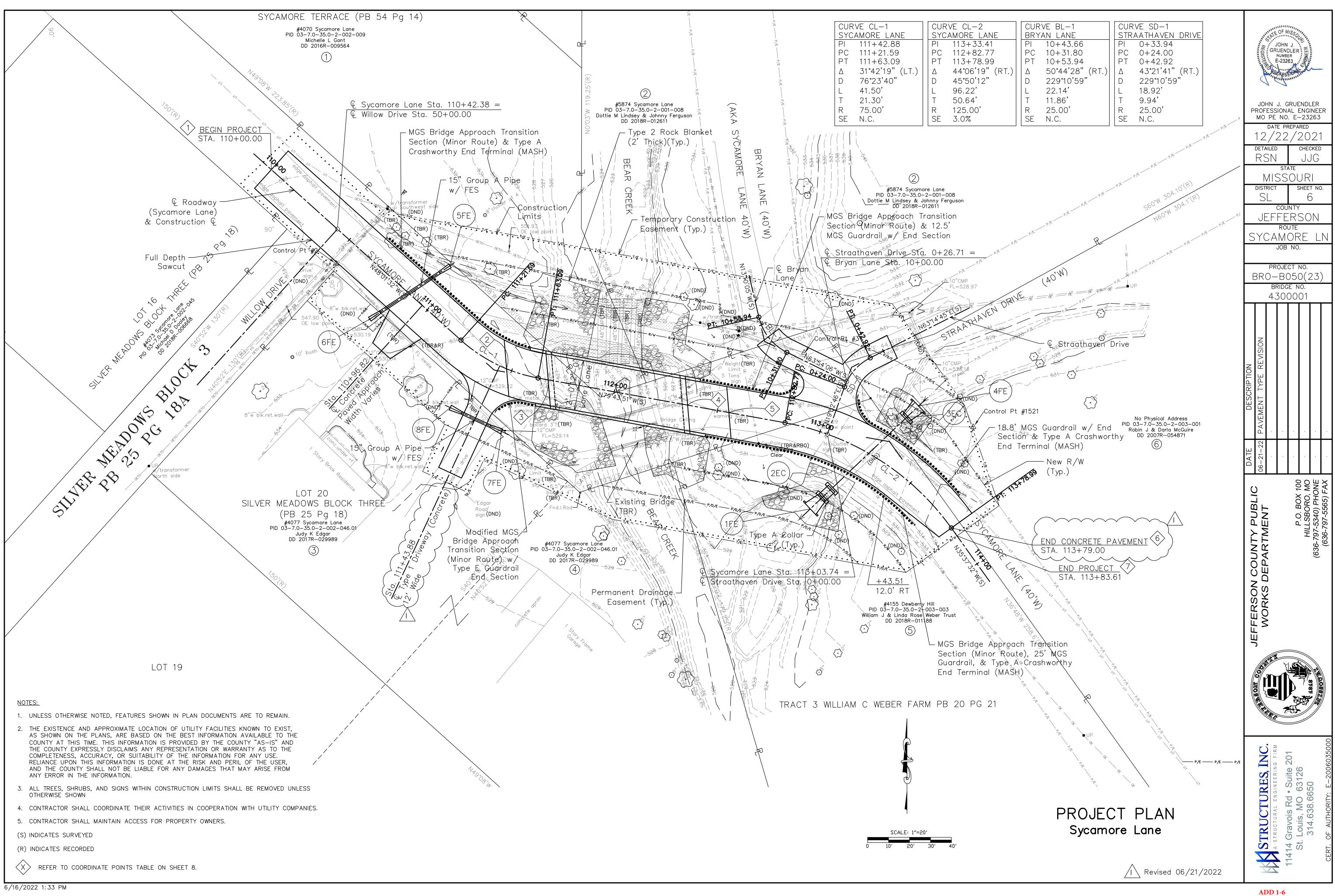
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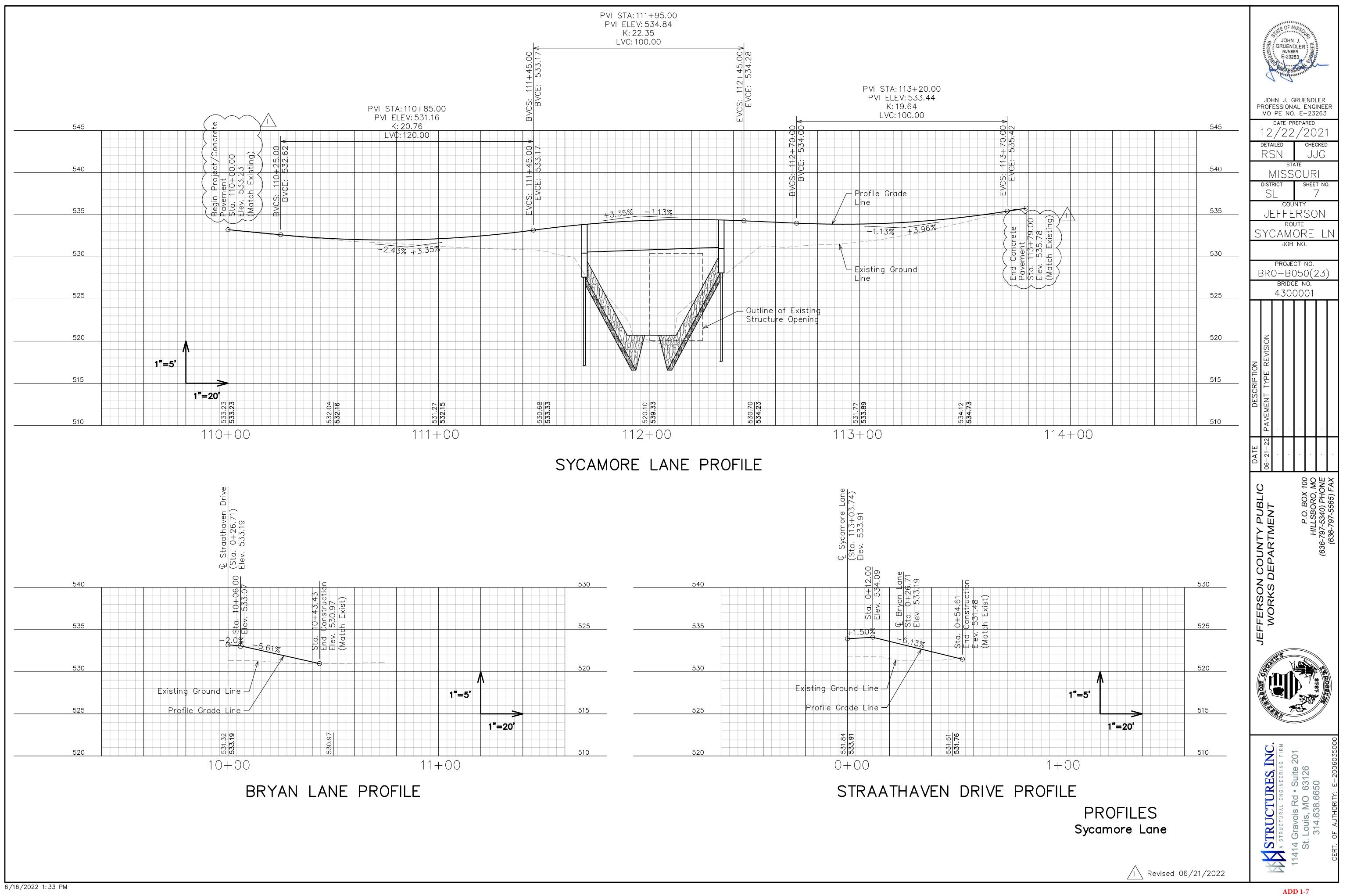
SHEET NO. 5

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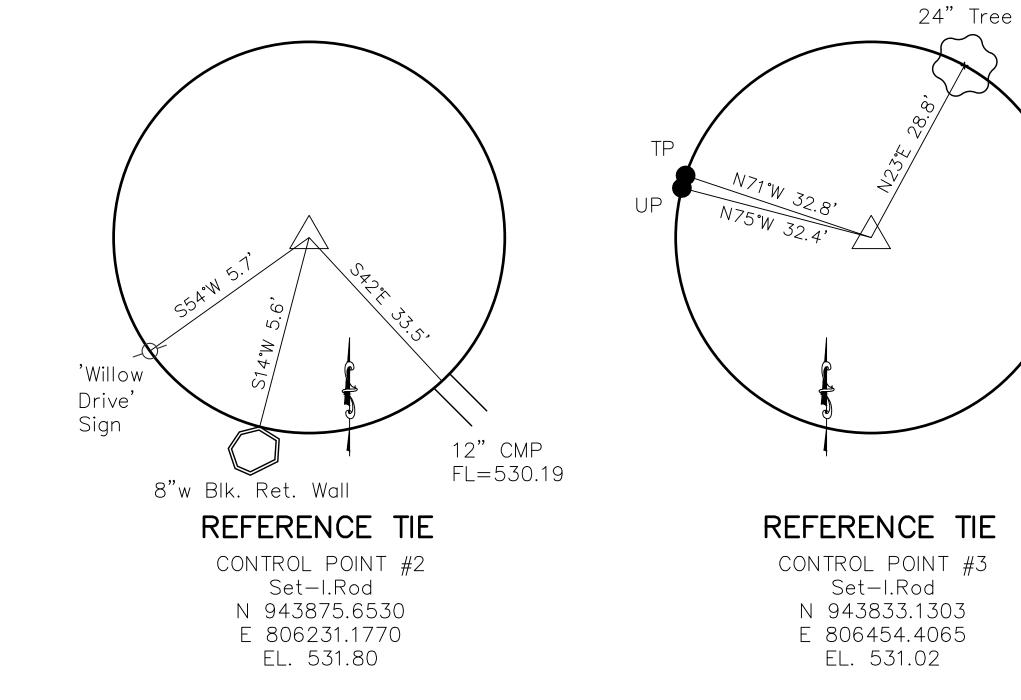
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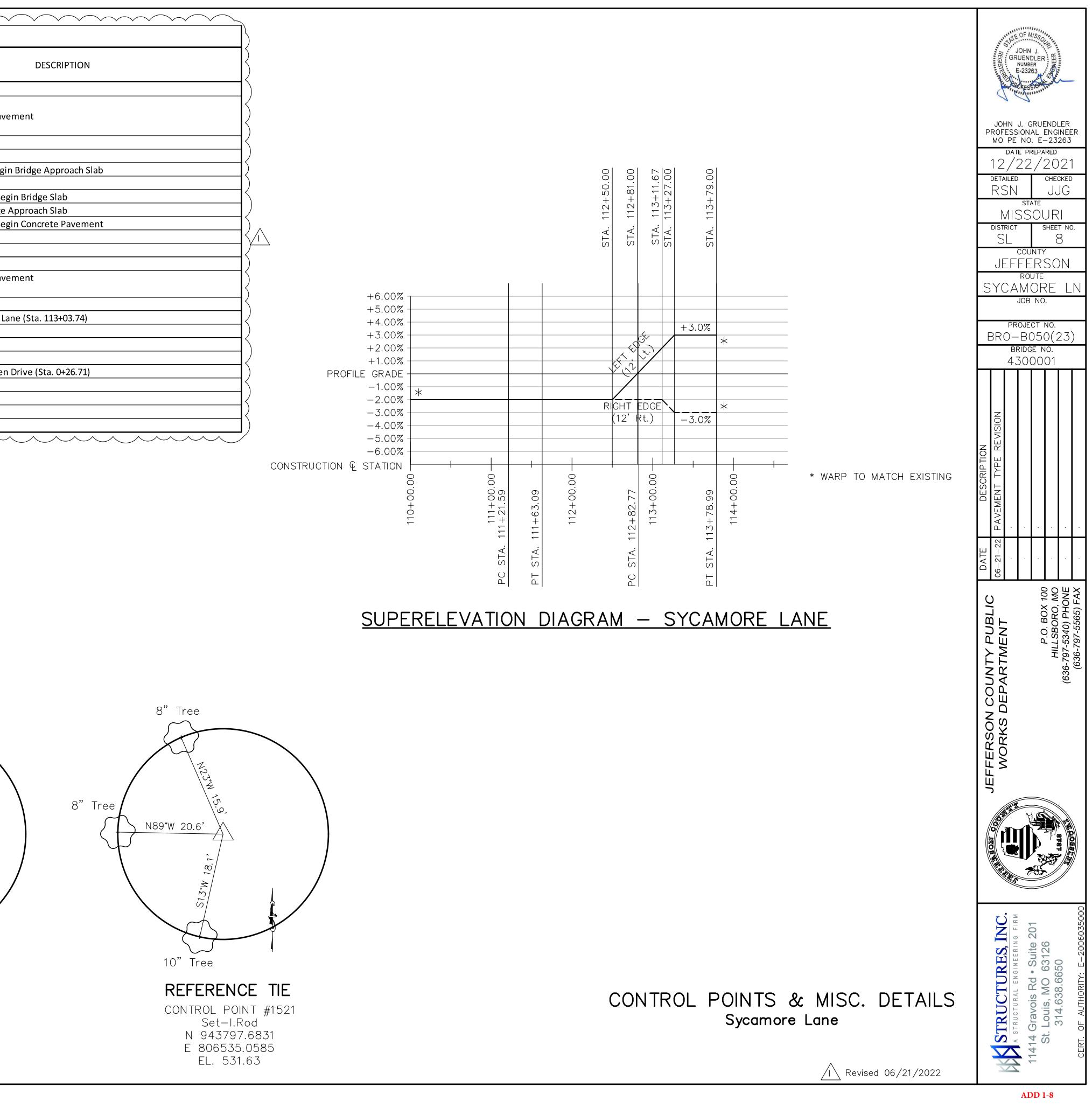


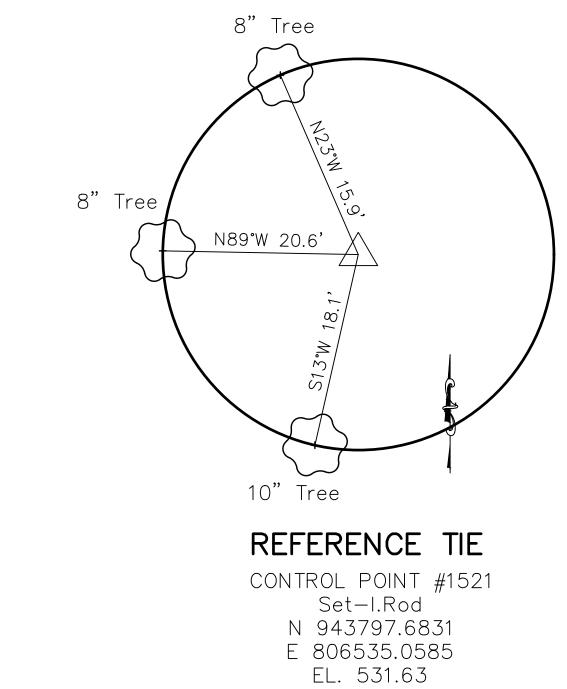


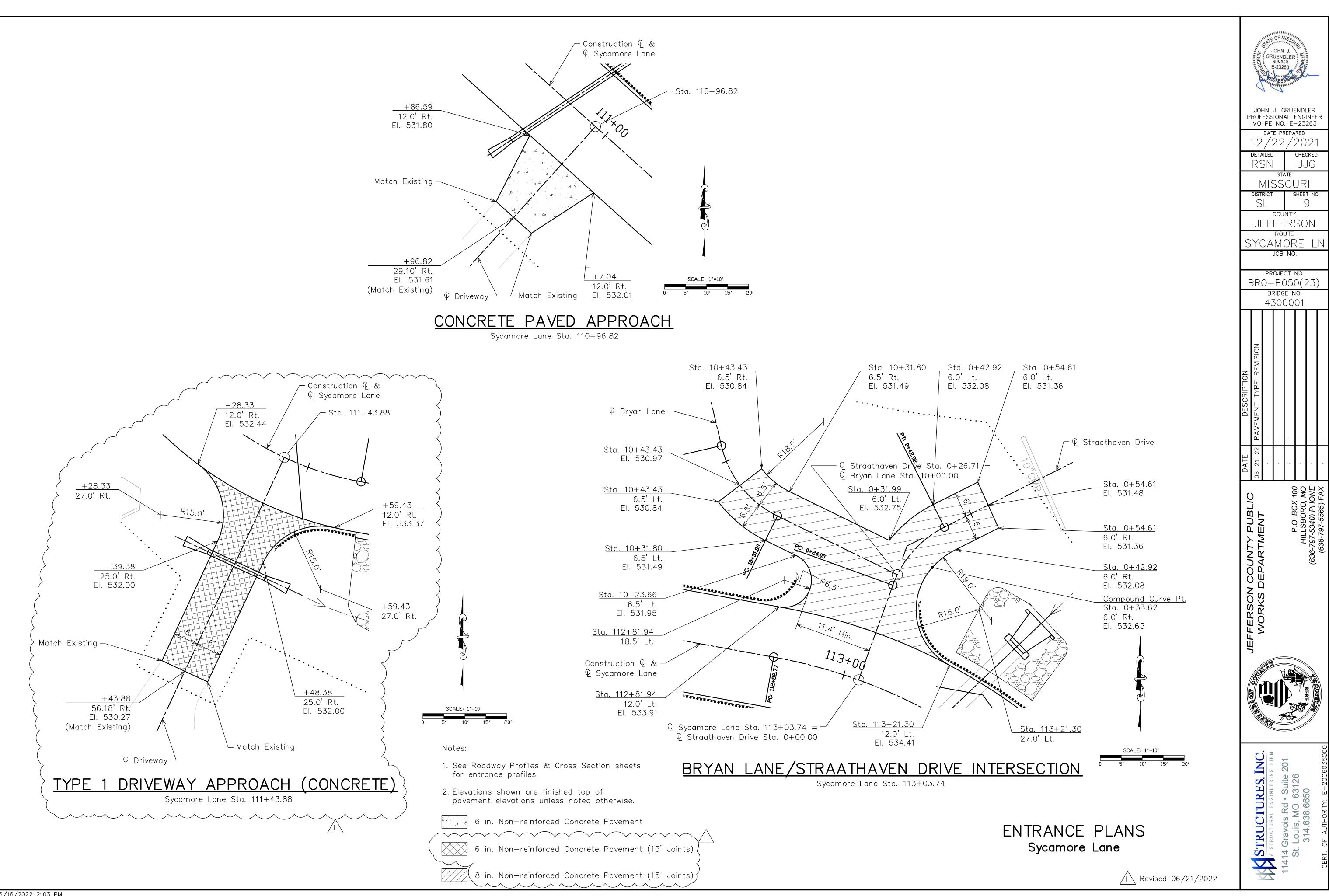
| | COORDINATE POINT | | - | | |
|---|---------------------|----------------------|-------------------|-----------|-----------|
| 1 | E COORDINATE SYSTEM | MISSOURI STATE PLANE | LOCATION | STATION | POINT NO. |
| 1 | E | N | | 517/11014 | |
| | | | | | |
| Begin Project Full Depth Sawcut Across F | | | | | |
| Begin Concrete Pavement | 806,200.3102 | 943,920.3932 | Sycamore Ln. | 110+00.00 | 1 |
| P.C. Curve CL-1 | 806,290.7038 | 943,839.0755 | Sycamore Ln. | 111+21.59 | |
| P.I Curve CL-1 | 806,307.8427 | 943,827.4943 | Sycamore Ln. | 111+42.34 | |
| End Concrete Pavement/B | 806,312.4897 | 943,825.4082 | Sycamore Ln. | 111+47.44 | 2 |
| P.T. Curve CL-1 | 806,327.4933 | 943,821.0353 | , Sycamore Ln. | 111+63.09 | |
| End Bridge Approach Slab/ | 806,332.3084 | 943,820.1629 | Sycamore Ln. | 111+67.98 | 3 |
| End Bridge Slab/Begin Bric | 806,398.8137 | 943,808.1138 | Sycamore Ln. | 112+35.57 | 4 |
| End Bridge Approach Slab/ | 806,418.4933 | 943,804.5484 | Sycamore Ln. | 112+55.57 | 5 |
| P.C. Curve CL-2 | 806,445.2561 | 943,799.6997 | Sycamore Ln. | 112+82.77 | |
| P.I. Curve CL-2 | 806,489.8063 | 943,782.3344 | Sycamore Ln. | 113+30.88 | |
| P.T. Curve CL-2 | 806,524.5772 | 943,749.5128 | Sycamore Ln. | 113+78.99 | |
| Full Depth Sawcut Across F | | | | | |
| End Concrete Pavement | 806,524.5830 | 943,749.5047 | Sycamore Ln. | 113+79.00 | 6 |
| End Project | 806,527.2687 | 943,745.7569 | Sycamore Ln. | 113+83.61 | 7 |
| Intersection with Sycamor | 806,465.4773 | 943,794.2533 | Straathaven Dr. | 0+00.00 | |
| P.C. Curve SD-1 | 806,473.6380 | 943,816.8225 | Straathaven Dr. | 0+24.00 | |
| P.I. Curve SD-1 | 806,477.0181 | 943,826.1704 | Straathaven Dr. | 0+33.94 | |
| P.T. Curve SD-1 | 806,485.8943 | 943,830.6451 | Straathaven Dr. | 0+42.92 | |
| Intersection with Straatha | 806,474.6973 | 943,819.3193 | Bryan Ln. | 10+00.00 | |
| P.C. Curve BL-1 | 806,446.1353 | 943,833.3107 | Bryan Ln. | 10+31.80 | |
| P.I. Curve BL-1 | 806,435.4908 | 943,838.5250 | Bryan Ln. | 10+43.66 | |
| P.T. Curve BL-1 | 806,432.7905 | 943,850.0664 | Bryan Ln. | 10+53.94 | |
| | | | | | |

Vertical datum was derived from GPS observations using the MoDOT network with GEIOD Model "12B"

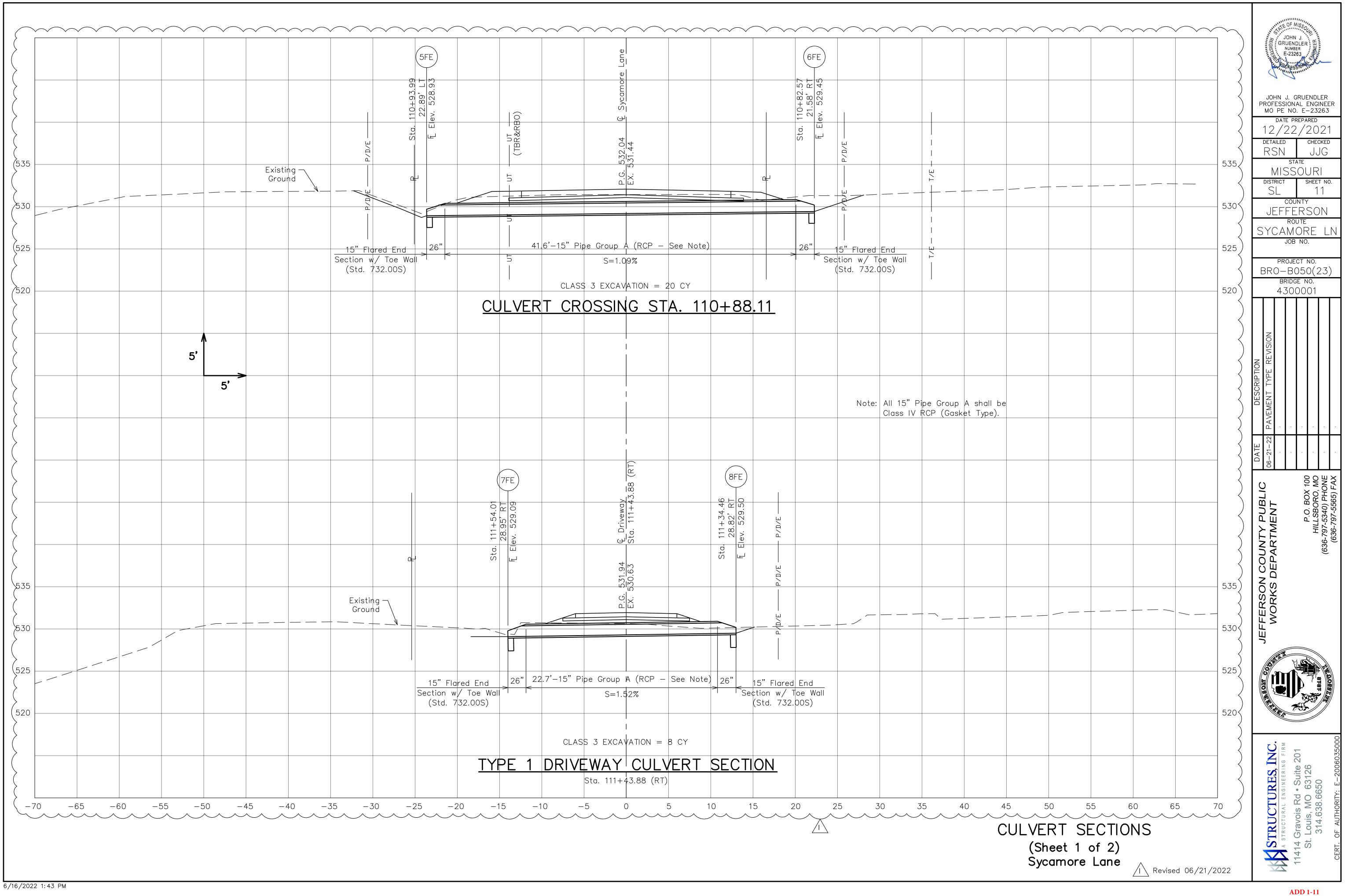




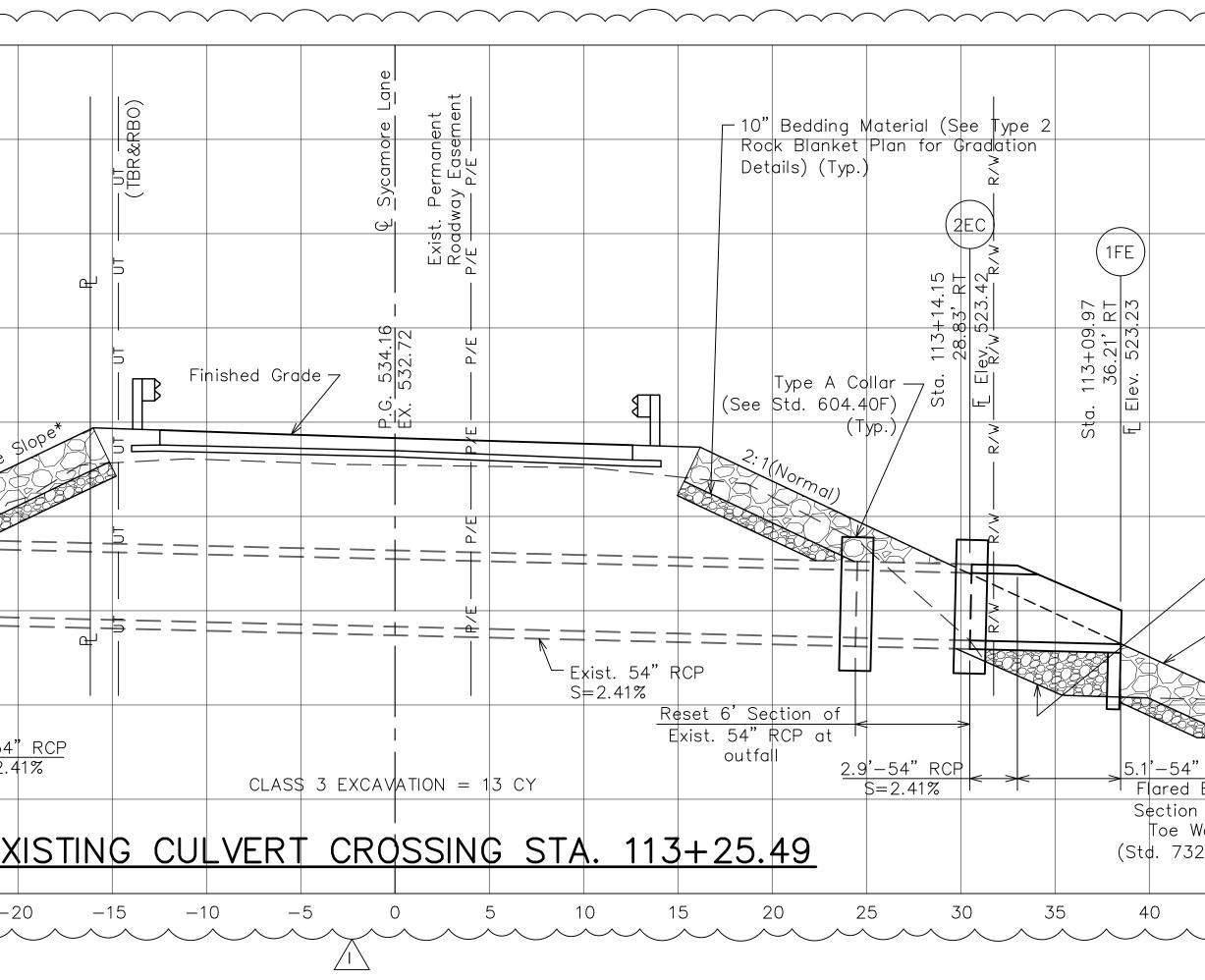




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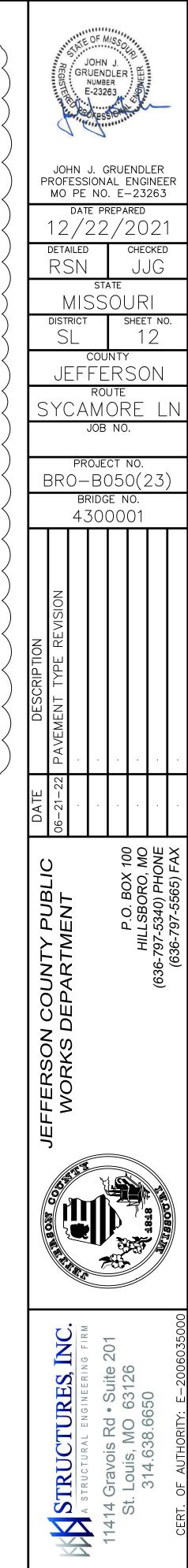


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| | <u>* Line</u> | slopes ne | ar pipe cul 2 Rock slopes to | vert | | | Exist. Pe Roddway P/E | + (4FE |) | (3 | |
| | inlet Blanl | with Type ket. Shape | 2 Rock slopes to | E - | | | ЕXI Хок | | × × | | |
| | acco | mmodate | new roadb | ed I | P/D/E | | | 97 LT 94 | | 4 4 L T | J. |
| - 10 | and | match exi | sting grade | 9. | | | | 2.2.9 9 L 9 | | ~ ~ ~ | 24.7 |
| 540 - | | | | | | | P/E | 113+32.9 31.68' L | \sim | 113+3 23.91 | ц Л |
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| 530 – | | | | | | | | | → | | |
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| | | | | 5' | | | 5.1'-54 | "RCP | | | 2.9'- |
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| | | | | | 5' | | (Std. 73 | | | | _ |
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Note: The cost of resetting the 6' section of existing 54" dia. RCP will be considered completely covered by the contract unit price for 54" Pipe Group A per linear foot.

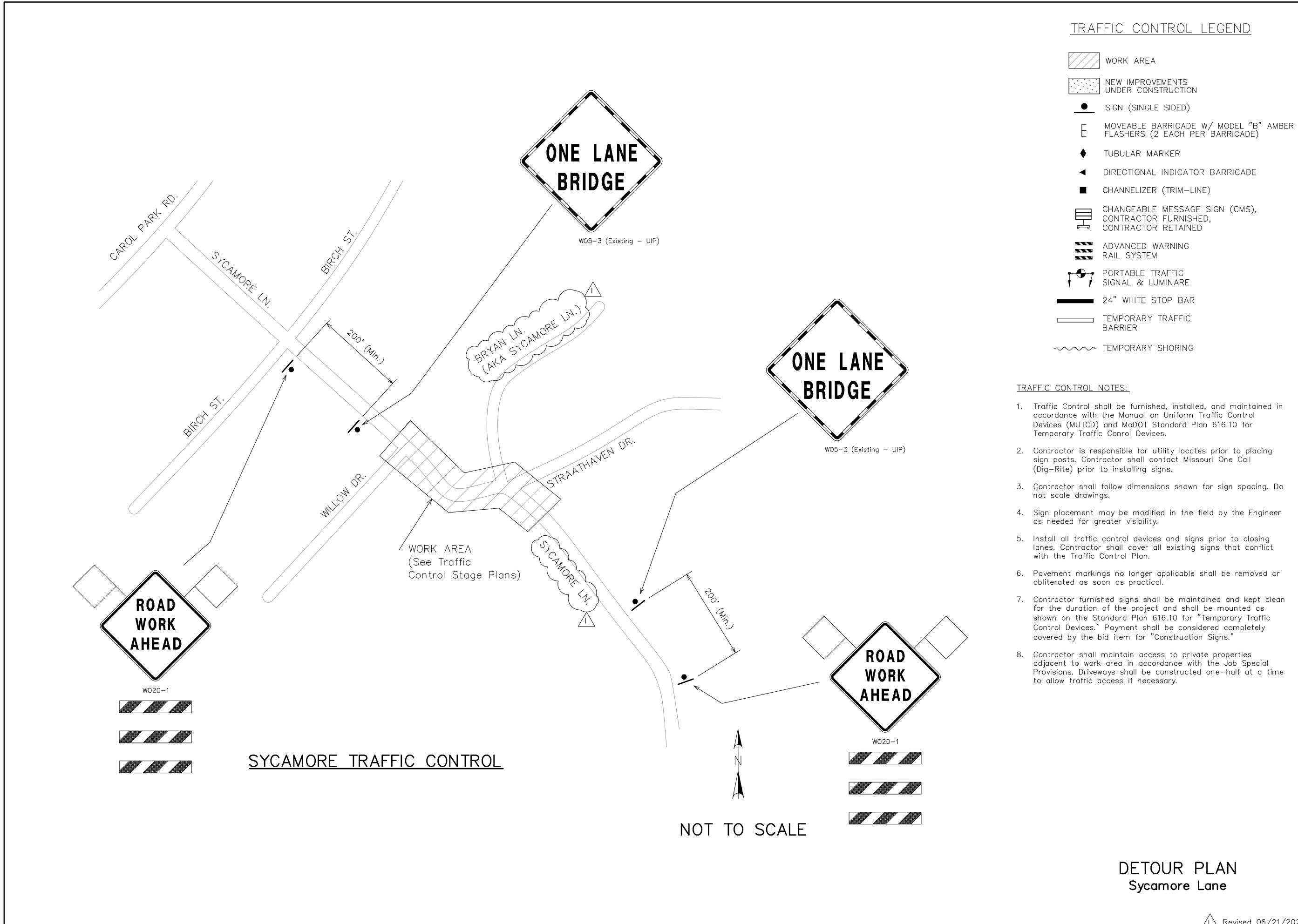
| | P/D/E — | | | | | |
|----------|---------|----------|-------------------------|---|-------|----|
| | P/D/E | | | | | 54 |
| | | | | | - T/E | 53 |
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| | - P/D/E | Rock Blo | vpe 2 inket (Typ. | > | - | 52 |
| <u> </u> | | <u> </u> | | | | |
| CP d | | | | | | |
| / 0S) | | | | | | |



Revised 06/21/2022

CULVERT SECTIONS

(Sheet 2 of 2) Sycamore Lane



12/20/2021 10:33 AM

| DATE | | | | | | |
|---------|-------------------------------|---|-----------------------------|--|----------------------|----------------------------------|
| JEF JEF | WORKS DEPARTMENT | | | | (636-797-5340) PHONE | (636-797-5565) FAX |
| | A STRUCTURAL ENGINEERING FIRM | | Ct 1 Clavols Ka • Sulle 201 | 31. LUUIS, IVIO 03 120 211 620 6660 | 0000001410 | CERT. OF AUTHORITY: E-2006035000 |
| | | A | DD | 1-1 | 3 | |

E OF MIS

JOHN J GRUENDLER NUMBER E-23263

JOHN J. GRUENDLER PROFESSIONAL ENGINEER

MO PE NO. E-23263

DATE PREPARED 12/22/2021

STATE

MISSOURI

COUNTY JEFFERSON

ROUTE

SYCAMORE LN

JOB NO.

PROJECT NO.

BRO-B050(23) BRIDGE NO.

4300001

CHECKED

JJG

SHEET NO.

13

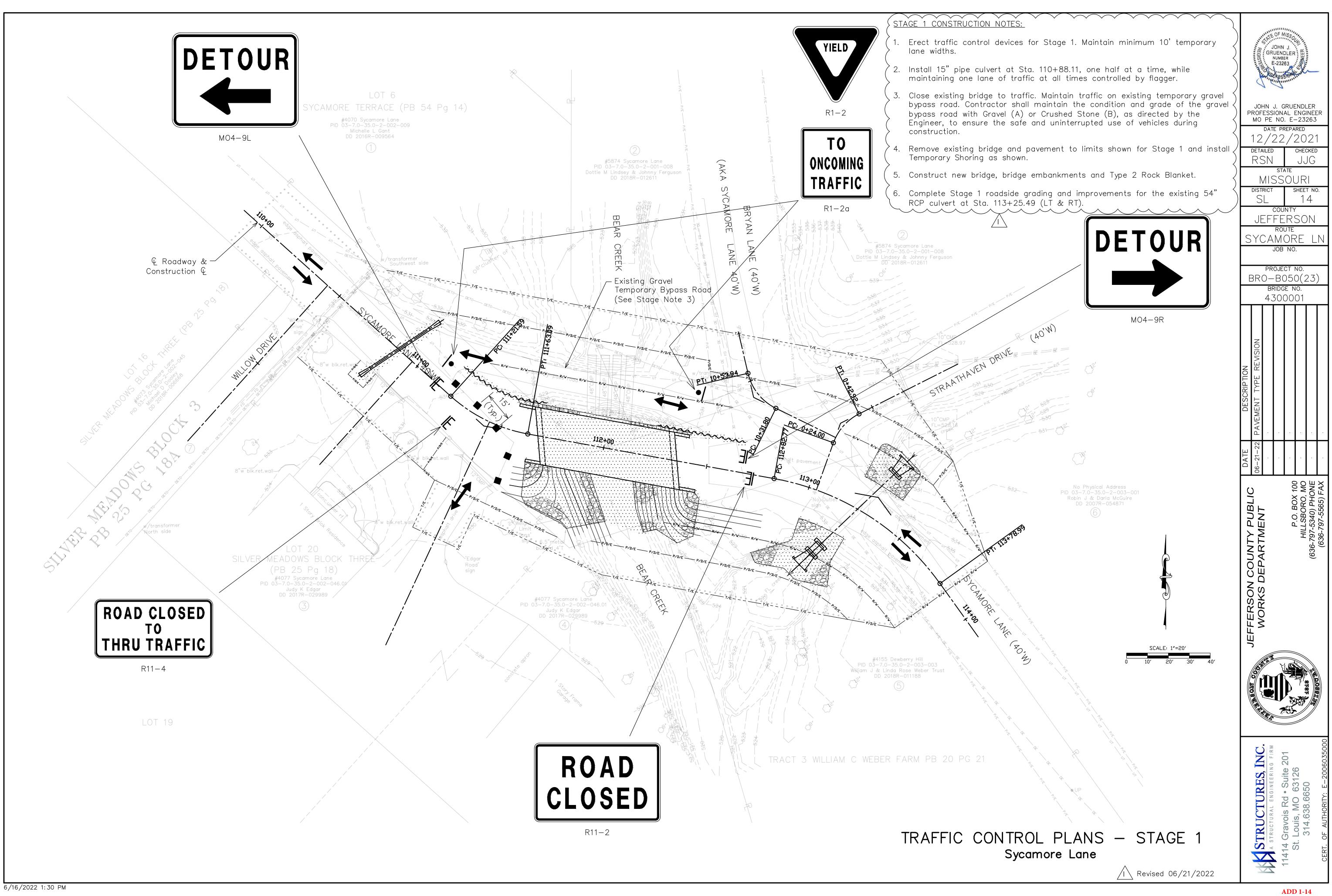
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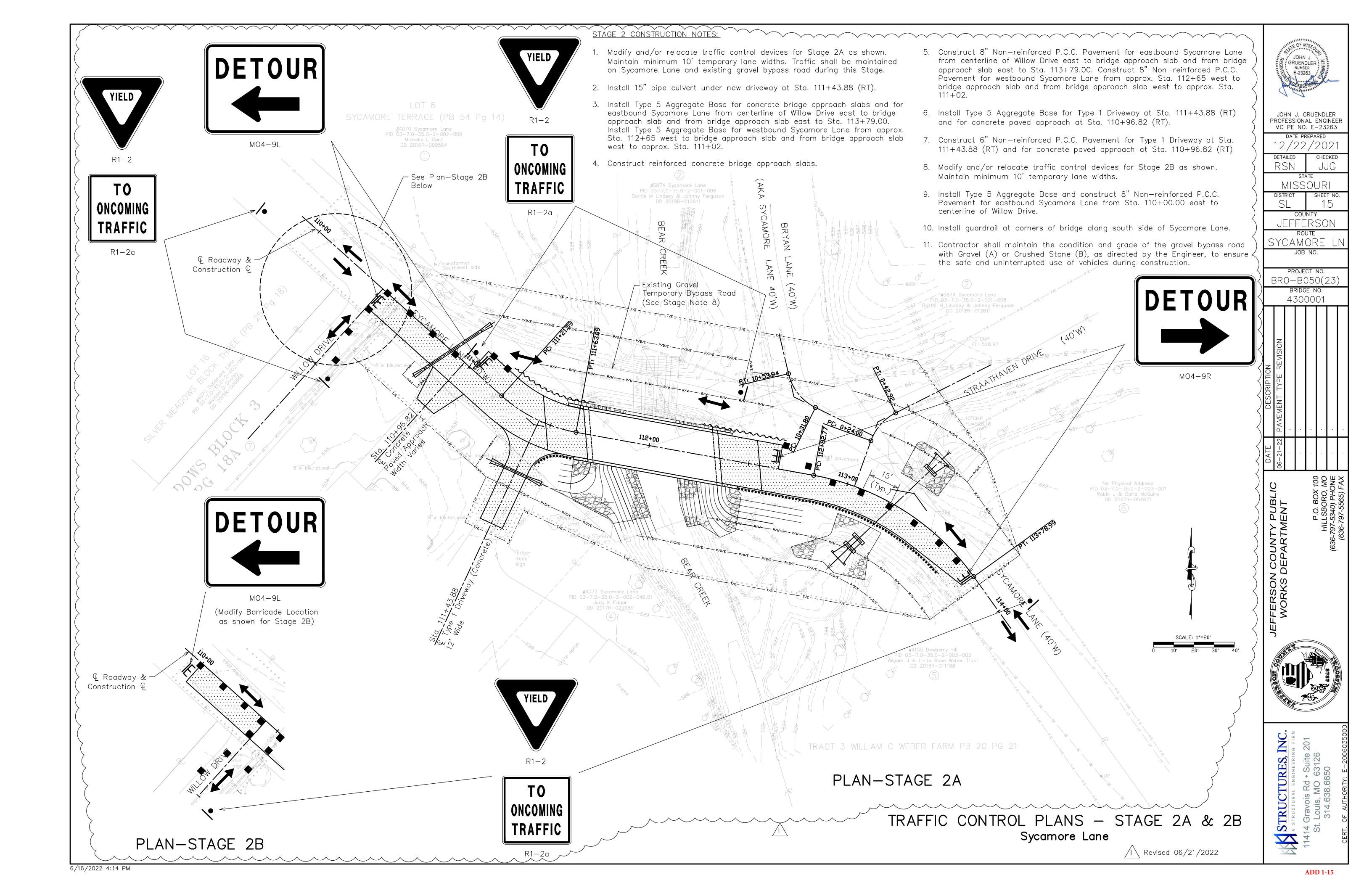
RSN

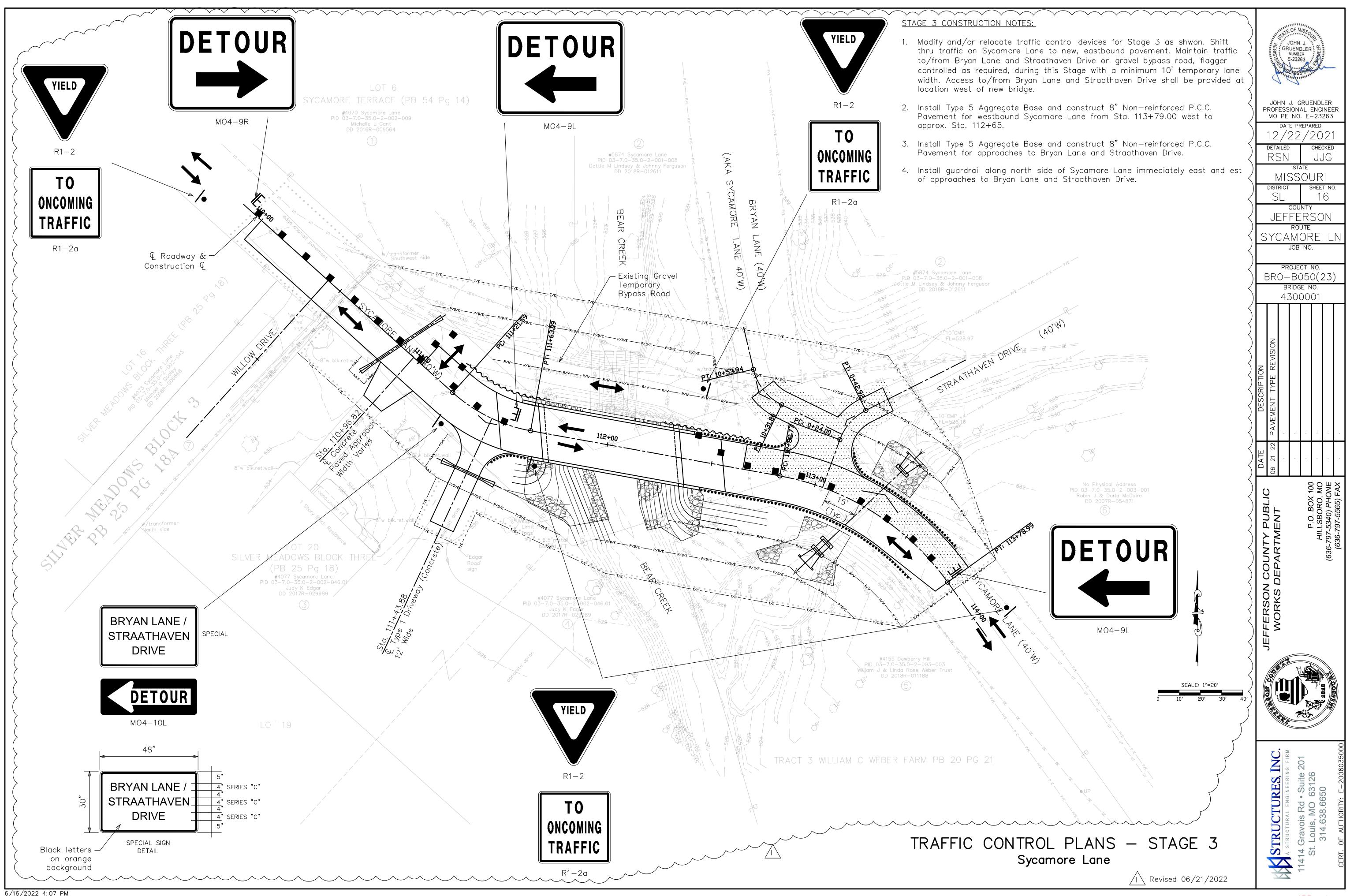
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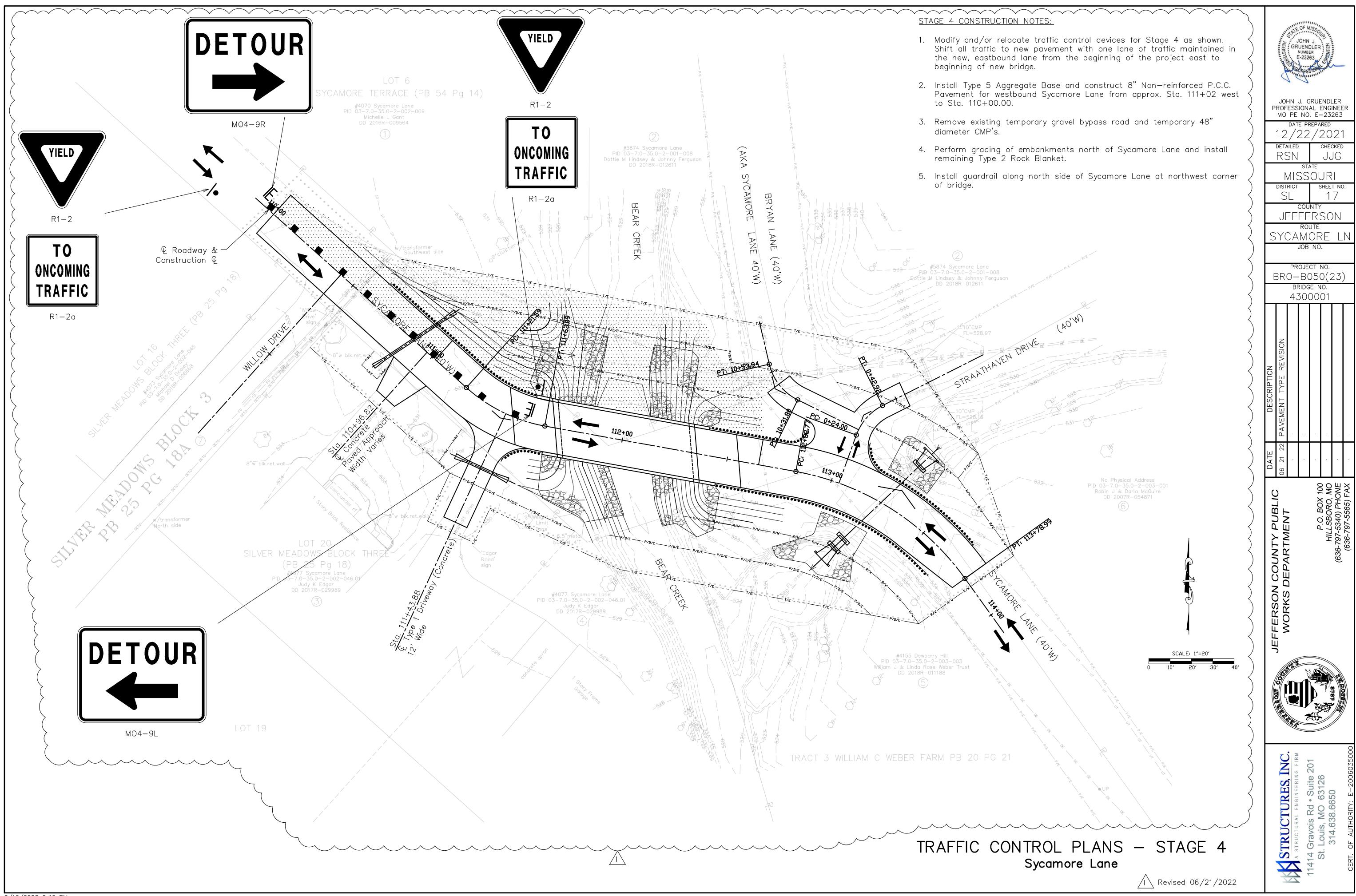




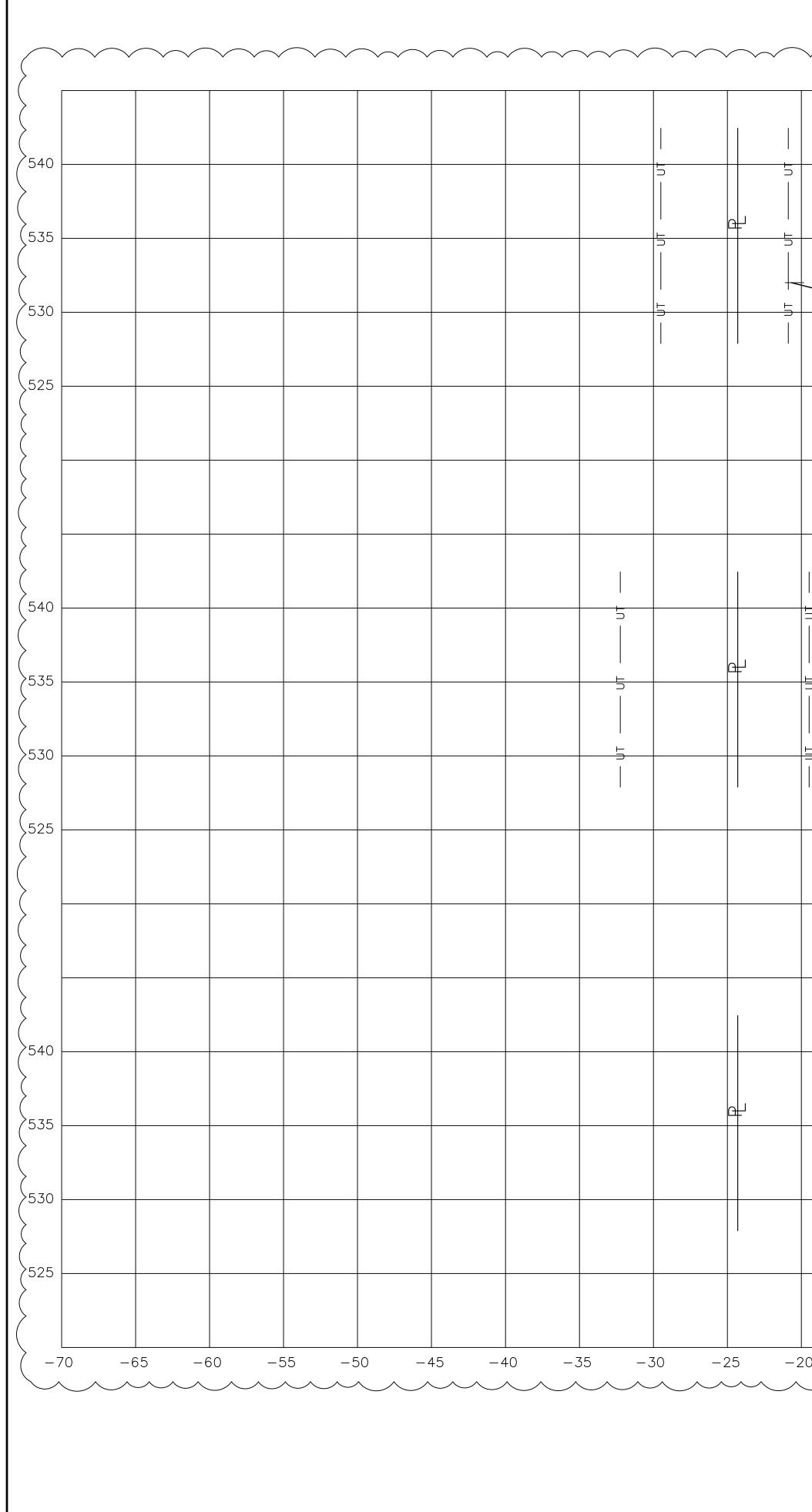


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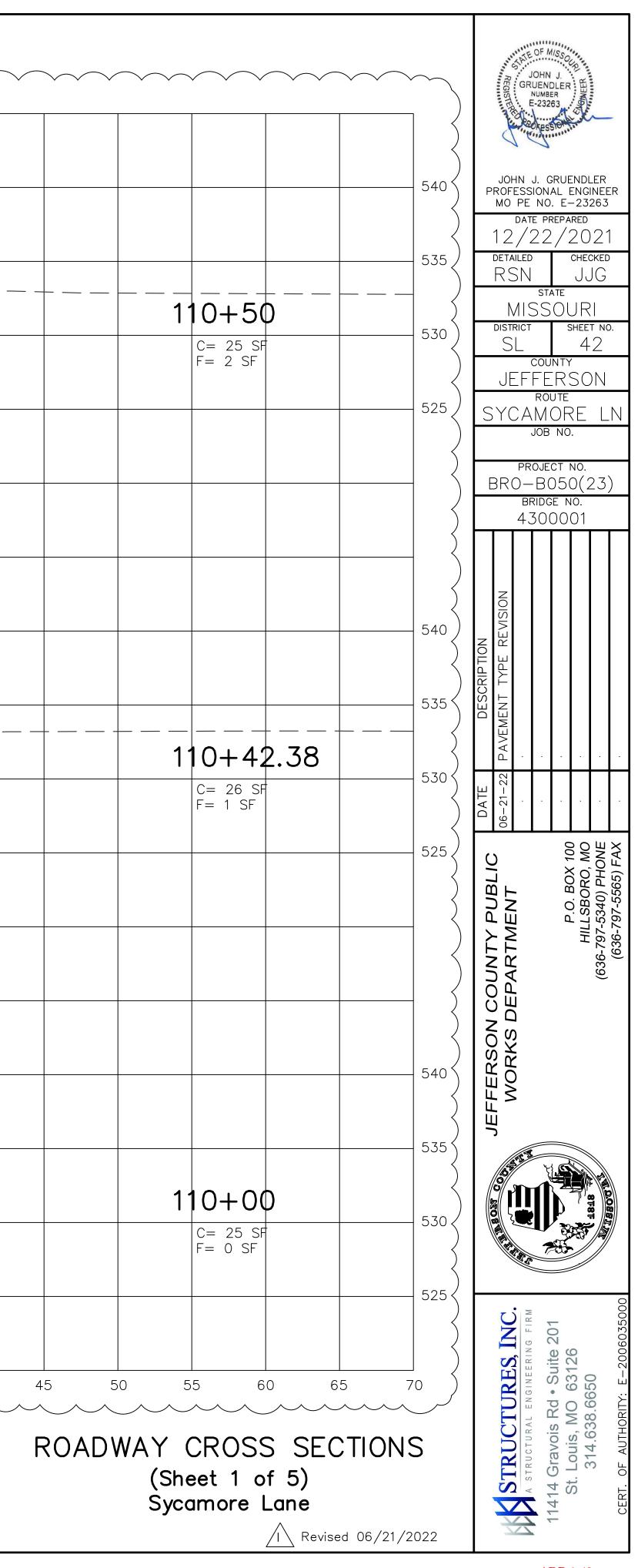
ADD 1-16

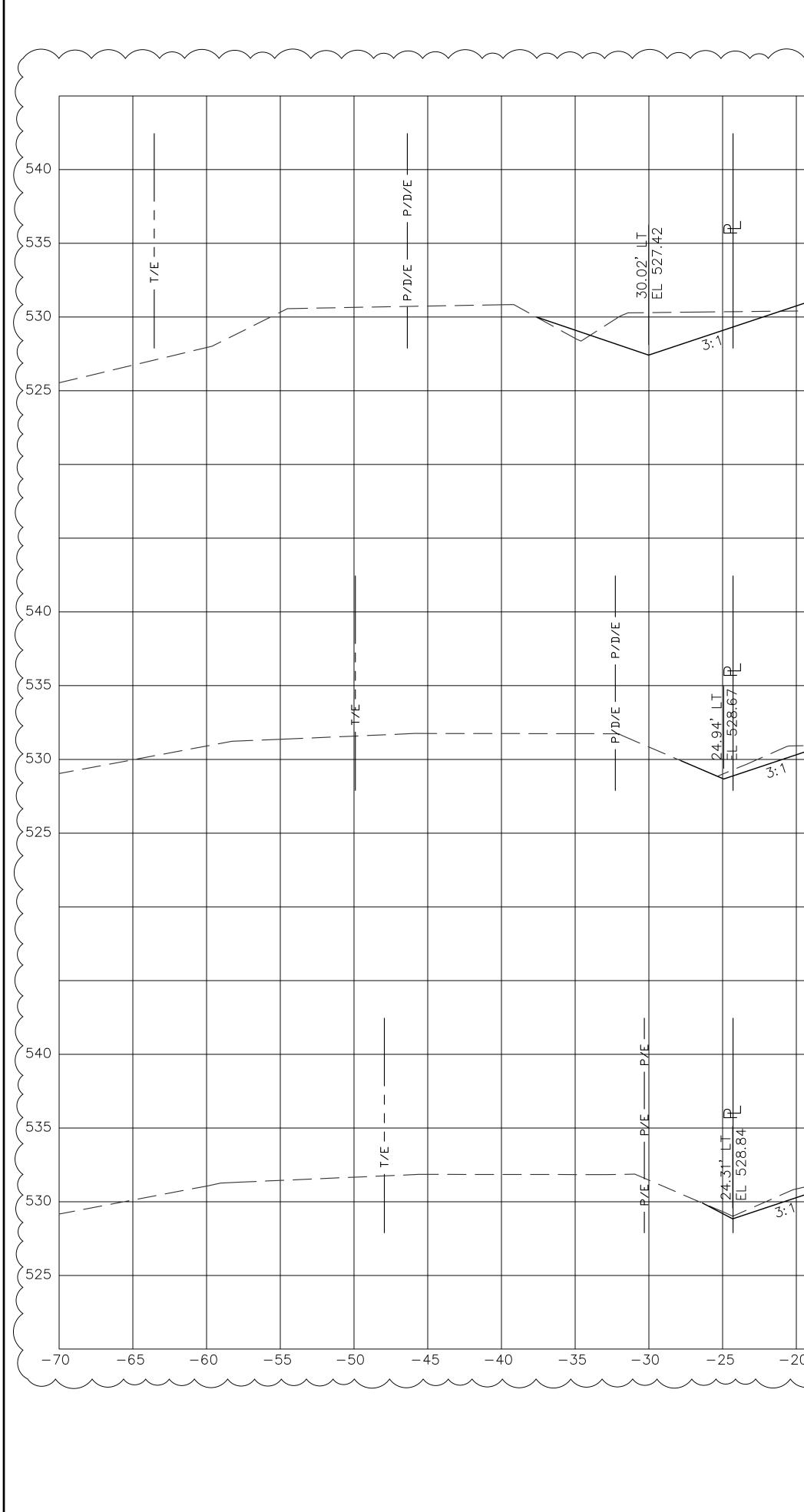


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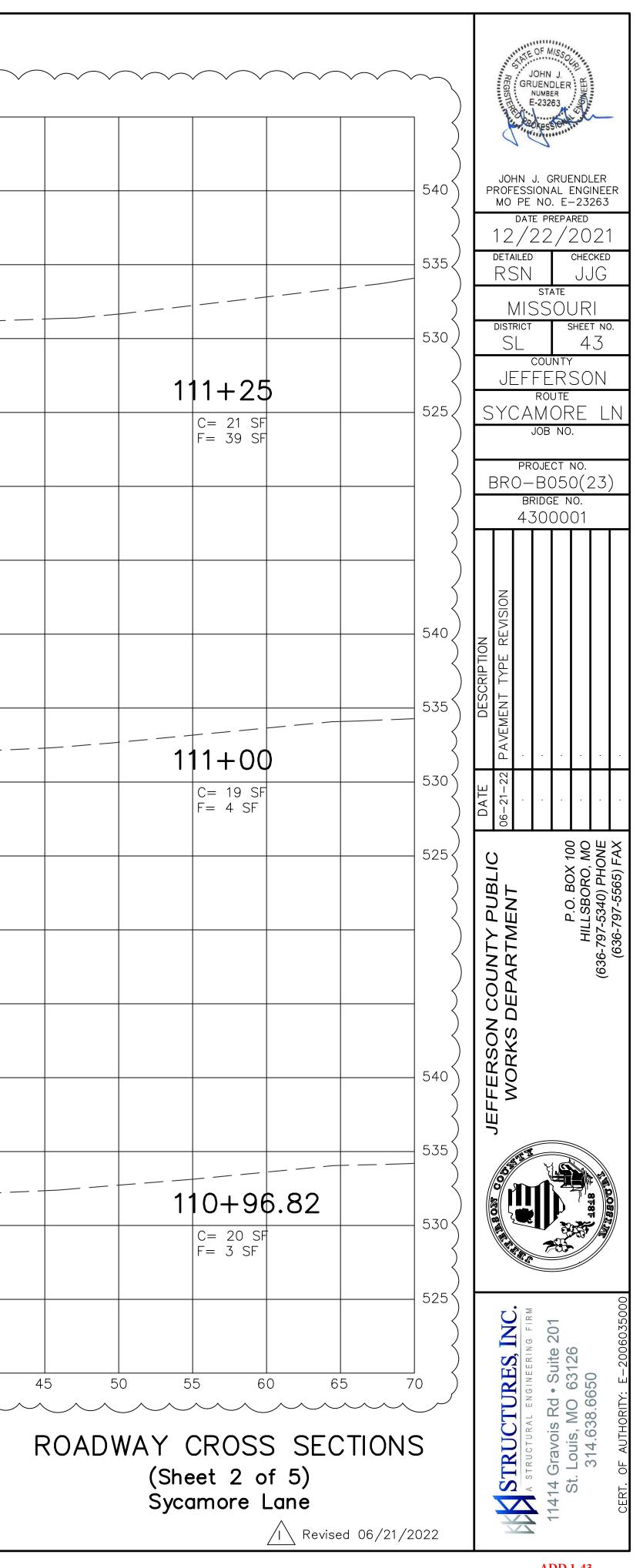


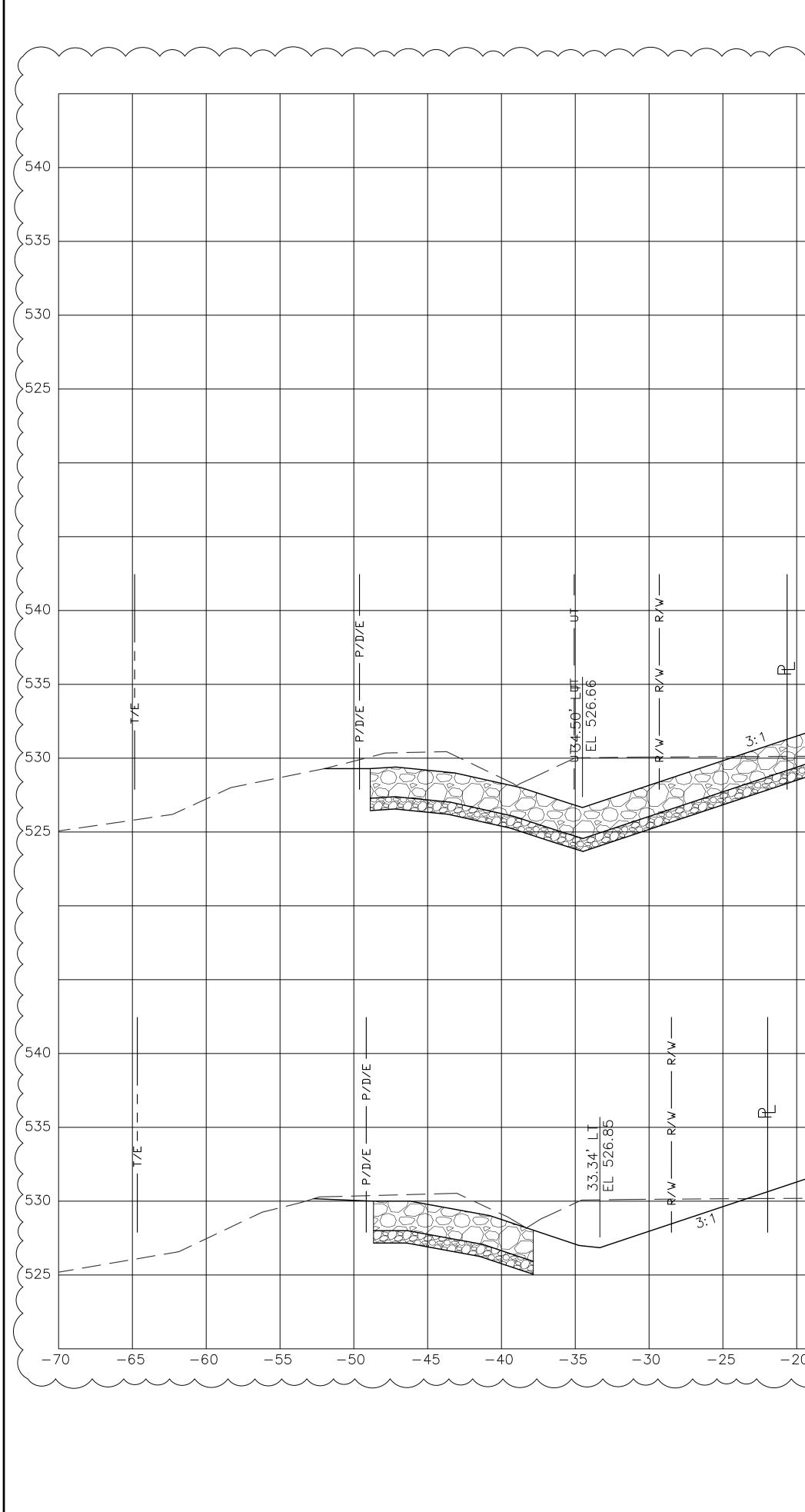
| | <pre></pre> | | | | | | | | | | | | |
|---------------------------|------------------------|-------------------|-----------------------------|--------------|------------------|--|-----|-----------------------|-------|-----|-----|---|--|
| () 17.75' LT EL 531.27 | 12.00° LT EL 531.92 | 2.00% | - PG 532.16 EX 532.04 | 2 | .00%> | Match Existing) | | - Full Dept Sawcut | n | | | | |
| | C= | 7.2 | CY | F= | 0.4 | СҮ | | | | | | | |
| | T2.00' LT EL 532.03 | 2.00% | PG 532.27 EX 532.17 - | 2 | .00% | M 12.00' RT EL 532.03 (Match Existing) | | Full Depth Sawcut | | | | | |
| | C= | 40.0 | | F= | 0.8 | СҮ | | | | | | | |
| | | VARIE MATCH EX | | VA (MATCH | RIES EXISTINO | 12.00' RT 12.00' RT 12.00' FL | | | | | | | |
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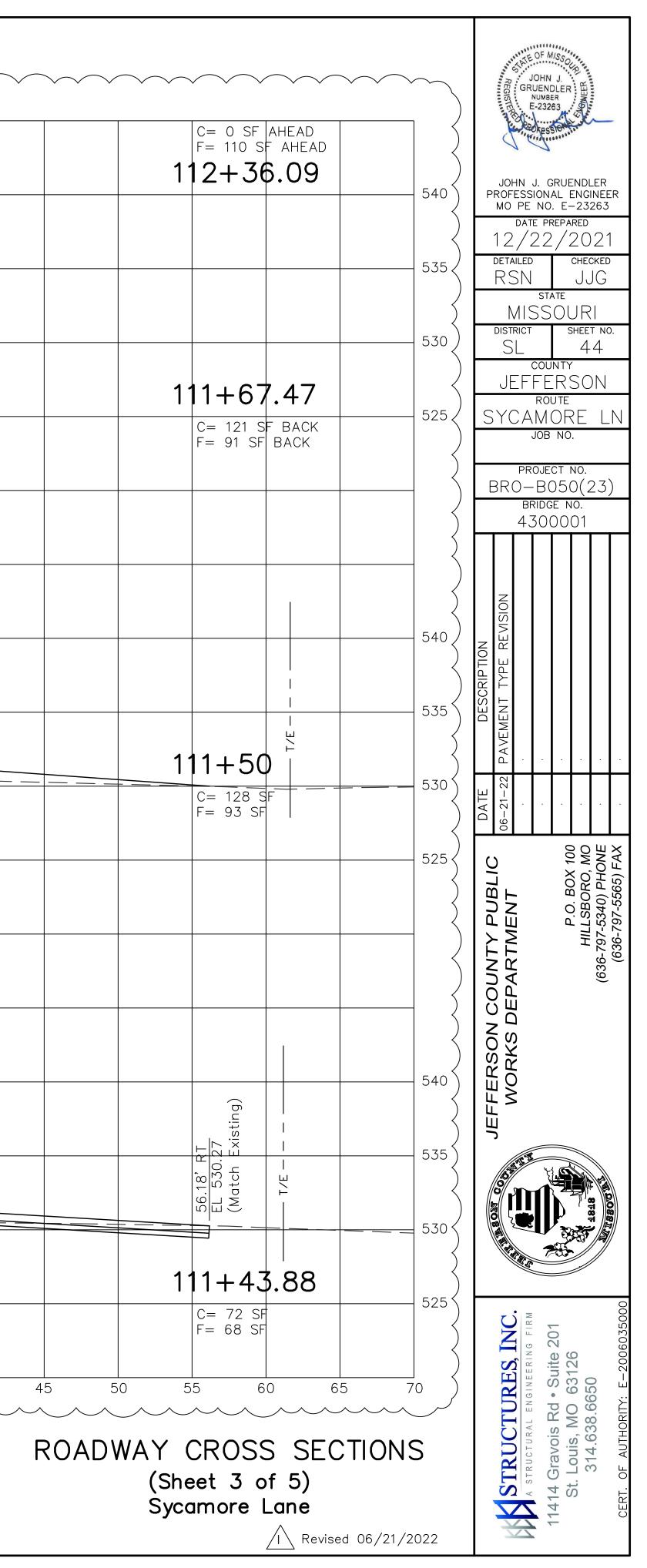


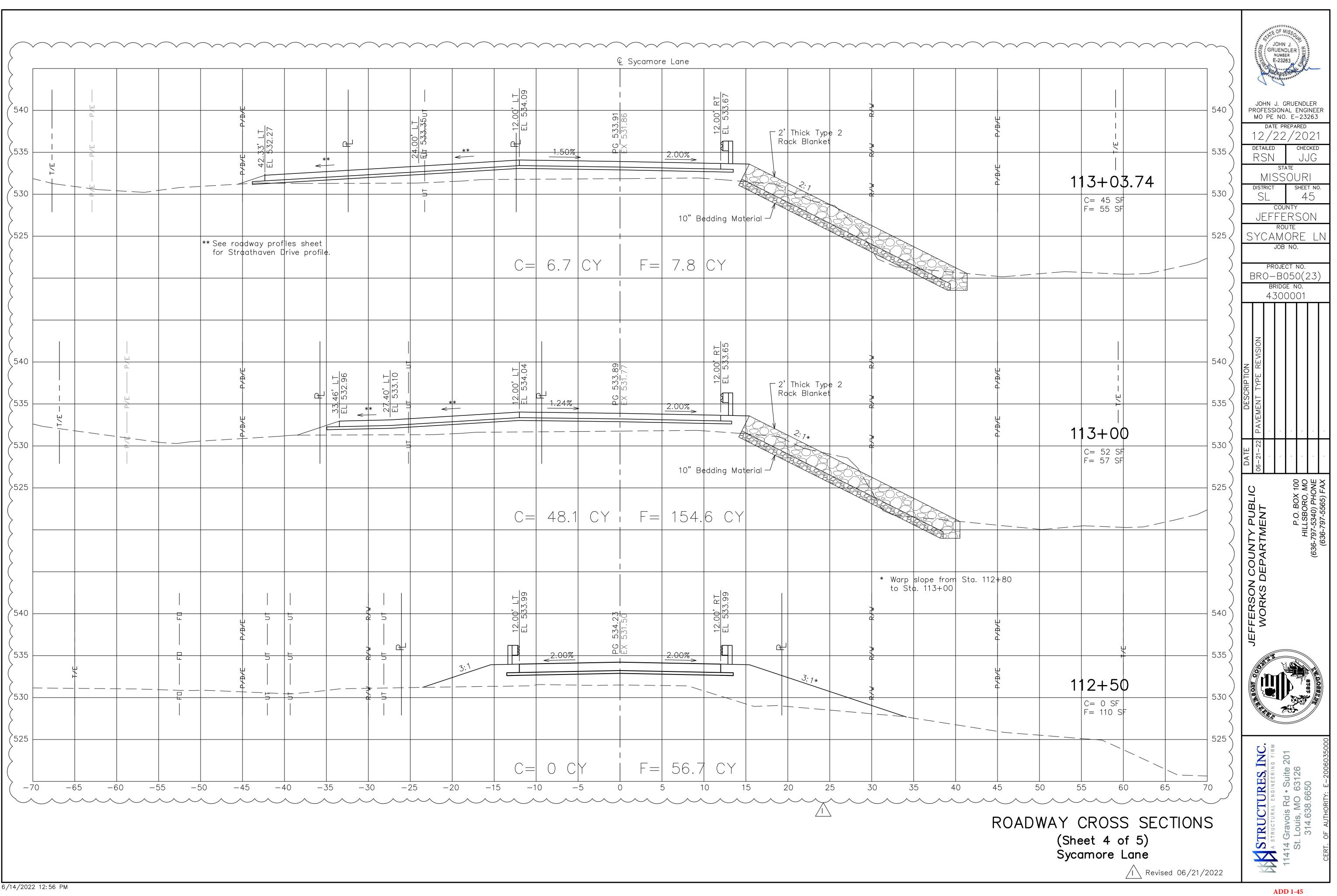
| | | | (| Sycamor | e Lane | | | | | | | ~ |
|----------|--|-------------------|--------|-----------|--------|------------------------|---|------------------------|------------------------------|-------------|-------------|--------------|
| | | | | | | | | | | | | |
| | 2.00' UT | | 32.59 | 0.97 | | RT 2.36 | | | | | | |
| | EL EL | <2.00% | PG 532 | | 2.00%> | 12.00' F | | 22.28' RT EL 530.00 | | | | |
| | | | | | | | 3:1 | 22 | | | — | |
| | | | | | | | | | | | | |
| | C = | 18.5 | СҮ | F= | 19.9 | CY | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | (b | | |
| | <mark>12.00⁺L</mark> ♥ ¹ EL 531.91 | | 532.15 | 531.27 | |)' RT 31.91 | <u>م</u> ب | | | h Existing) | | |
| | | <2.00% | () | | 2.00% | 12.00' RT EL 531.91 | | 2.22% | 29.10 [°] EL 531 | (Mata | | |
| | | | | | | | | | | | | |
| | | | | | | | 0.09 CMP | | | | | |
| | C= | 2.3 | СҮ | F= | 0.4 | СҮ | CL Exist. 12" FL EL 530.09 (TBR) | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | <u>531.88</u> | | | | | | | | | Existing) | | - |
| | J T12.00 ⁷ EL 53 | | 532.11 | | | 531.88 | | | 29.10' RT EL 531.61 | | | |
| | | <u><</u> 2.00% | | | 2.00% | | | <u>1.58%</u> > | E | | | |
| | | | | | | | CMP I I | | | | | |
| | | | | | | | <u>CL Exist. 12"</u> FL EL 530.11 (TBR) | | | | | |
| 0 -1 | | 39.C ° – | | | | CY 0 1 | | 0 2 | 5 3 | 0 3 | 5 5 4 | -0 |
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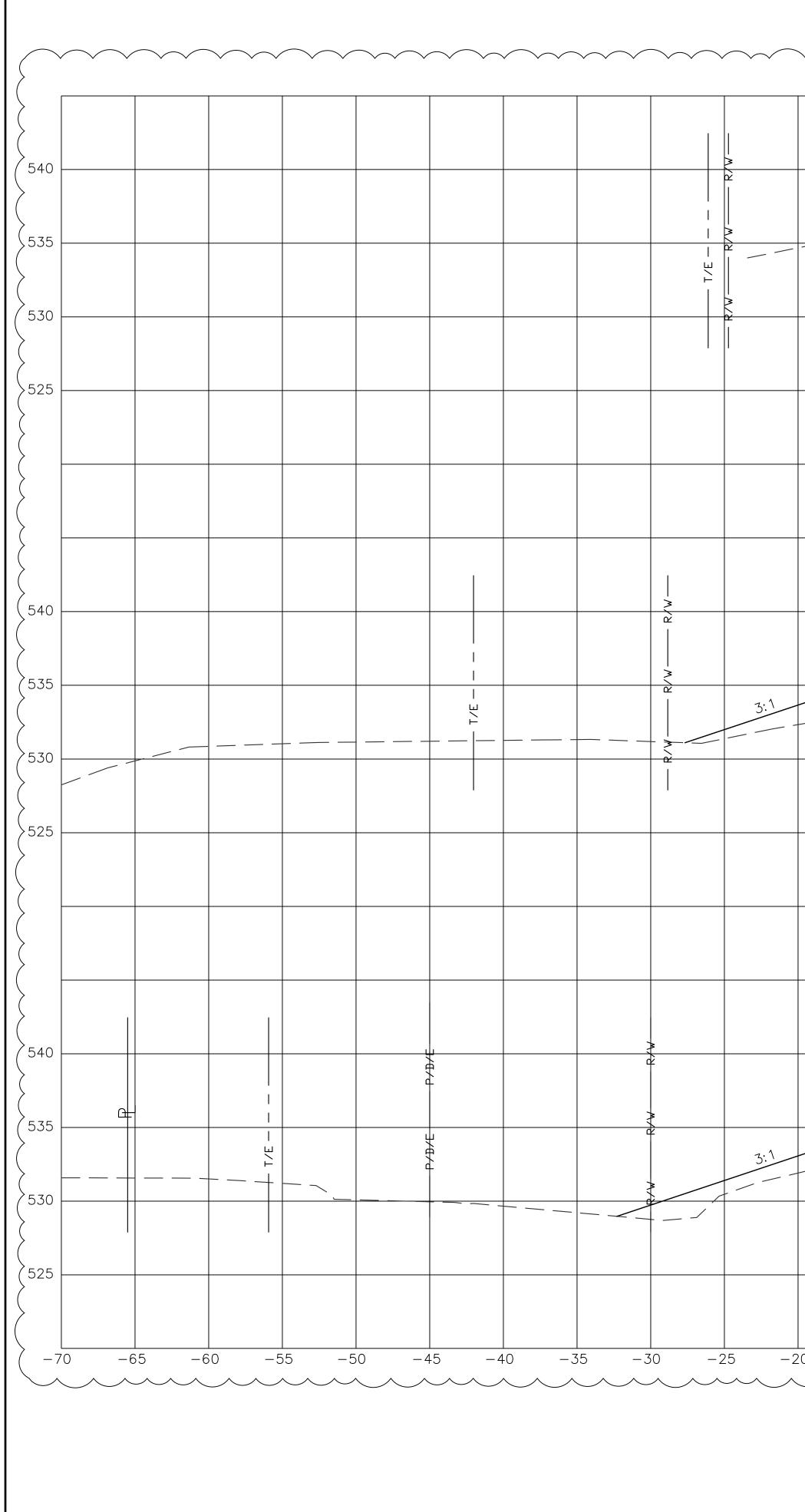




| | | | | Sycamor | e Lane | | | | | | | |
|------|-----------|------------|--------------|----------------|---------------|------------------------|------------------------|--|--|-----|-------|----|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| S | TA. 11 | BR 1+67 | IDGE 7.47 | OMIS: FO ST | SION A. 11 | 2+36 | 5.09 | | | | | |
| | | | | | | | | | | | | |
| | C= | 80.6 | S CY | F= | 59.5 | 5 CY | | | | | | |
| | EL 533.09 | 2.00% | PG 533.33 | \times | 2.00% | 12.00' RT EL 533.09 | 18.36' RT EL 532.72 | | | | P/D/E | |
| | | | | | | | | | <u>ф</u> | | | |
| | C= | 22.7 | 7 CY | | 18.2 | СҮ | | | <u>CMP</u> | | | |
| | | | | | | | | | CL <u>Exist. 12"</u> FL <u>EL 529.16</u> (TBR) | | | |
| | EL 532.89 | < 2.00% | PG 533.13 | | 2.00%> | 12.00' RT EL 532.89 | G | | 5.93% | | | |
| | | | | | | | | t. <u>12" CMPO</u> | Group A- 0 | | | |
| 0 —1 | | | | | 37.4 | | 5 2 | 0 <u>CL Exist. 12"</u> FL EL 529.20 (TBR) | CL 15" Pipe w | | 5 | 10 |
| 0 -1 | 15 –1 | 0 – | | | | 0 1 | 5 2 | | | 0 3 | | 40 |







| | | | Ę | Sycamor | e Lane | | | | | | | |
|------|-------------|---------------------------|----------------|---------|---------------------------------|------------------------------------|------------|--------------------------|-----|-------------------|-------------------------|-------|
| | F uT | C Varie (Match ex | PG 535.78 | | VOIT 0 7.29' RT EL 535,56 | | | | | W N W | | |
| | | | | | | | | | | P/D/E | | |
| | | | | | | | | | | | | |
| | C= | 14.5 | CY I | F= | 26.9 | CY | | | | | | |
| | LT 5.09 | | | | | 11.85' RT EL 534.3 | | | | | | |
| | UT EL U 535 | <u>م</u> ا <u>3.00</u> | PG 534.73 | ~ | 3.00% | | | | | \$ 2 8 2 | | |
| | | | | | | | | 3:1* | | | | |
| | C= | 25.9 | | | 421 | CY | | | | | | |
| | | | | | 1 2 . 1 | | | | | * Warp to Sto | slope from a. 113+40 | Sta |
| | EL 534.50 | 2.90 | ر PG 534.16 | /.700 | .90% | 12.00 ¹ RT EL 533.81 | ☐ 2' Rc | Thick Type ck Blanket | e 2 | » | | |
| | | | | | > | edding Mat | erial - | 2.6:1* | | | | |
| | | | | | | | | | | | | |
| 0 -1 | 5 -1 | 0 – | 5 0 | 5 | 5 1 | 0 1 | 5 2 | | 5 3 | 0 3 | 5 4 |) |

