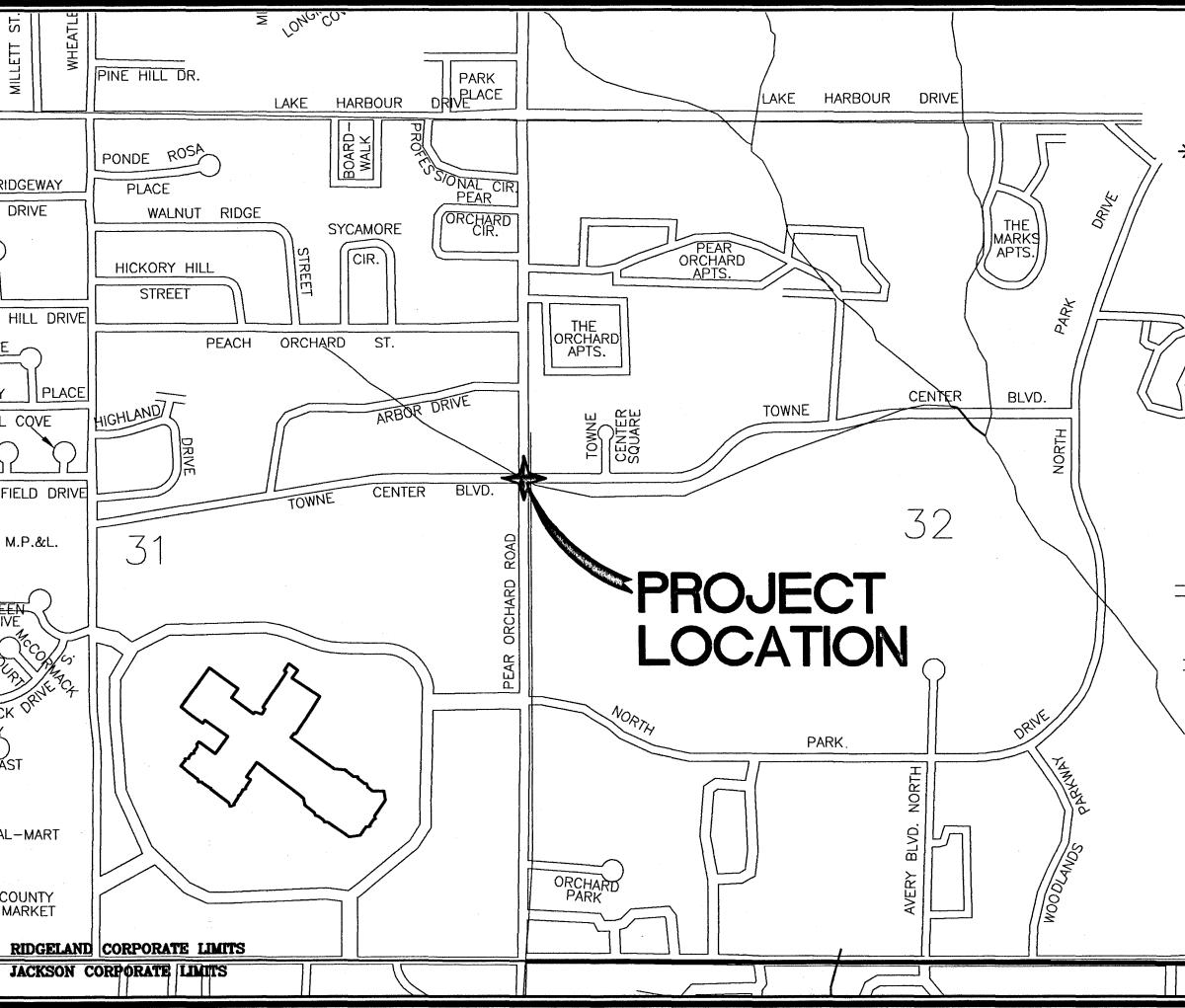
| PEAR | DRCHARD INTERSEC |
|--|--|
| Mayor: Gene F. McGee | RIDGEI |
| Aldermen: Linda Davis Trunzler Gerald Steen Ken Heard Chuck Gautier Carole A. Davis Larry Roberts Scott Jones | Is < |
| Public Works Director: John M. McCollum, P.E. Asst. Public Works Director: Sid Hawthorne City Engineer: | QUIRREL HILL DRIVE |
| David Williams, P.E. City Clerk: David W. Overby Fire Chief: Matthew Bailey | M.P.&L. GREEN DRIVE CORMACK DRUE 7 CORMACK DRUE 7 REENWAY |
| Police Chief: Jimmy R. Houston, Sr. | OURT EAST WAL-MART COUNTY MARKET RIDGELAND CORPORATE LIMITS JACKSON CORPORATE LIMITS |
| DESCRIPTIONNO. OF SHEETSTITLE SHEET1DETAILED INDEX/GENERAL NOTES1QUANTITIES1PLAN SHEETS2PAVEMENT MARKINGS & SIGNING1TRAFFIC SIGNAL SHEETS1 | UTITILTIES |
| TRAFFIC CONTROL2DETAIL SHEETS6STANDARD DRAWINGS8TOTAL: 23 | WATER: CITY OF RIDGELAND SANITARY SEWER: CITY OF RIDGELAND POWER: ENTERGY, INC. TELEPHONE: BELLSOUTH CABLE TELEVISION: TIME WARNER, INC. GAS: ENTEX, INC. |
| | |

CHARD RD./ TOWNE CENTER TERSECTION IMPROVEMENTS RIDGELAND, MISSISSIPPI -AID PROJECT NO. STP-8323



VICINITY MAP

RATIOS/SCALES

PLAN: 1"= 20' UNLESS OTHERWISE INDICATED

 $\frac{DESIGN DATA}{ADT(2003)= 11,000}$ DESIGN SPEED = 35 MPH

| LOCATION MAP | |
|--|--|
| | |
| 3-00(002) | |
| Nadison County Prepared by: MADRO-Date3-9-05 Project Engineer Approved: Mayor City of Ridgeland Approved: Executive Director Mississippi Department of Transportation Approved : Date | |
| ENVIRONMENTAL PERMITS P.E. NO. TYPE REQUESTED BY YES NO N.W. (WATERS OF U.S.) N.W. (WATERS OF U.S.) OR S.O. STORMWATER | |
| PREPARED BY: NEEL-SCHAFFER NEEL-SCHAFFER PWP-01632 | |

DETAIL INDEX TO DRAWINGS

| DETAILED INDEX AND GENERAL NOTES |
|--|
| SUMMARY OF QUANTITIES. |
| |
| PROPOSED IMPROVEMENTS |
| PAVEMENT MARKING PLAN AND SIGNING PLAN |
| TRAFFIC SIGNAL INSTALLATION |
| TRAFFIC CONTROL PLAN (TYPICAL SIGNAL INSTALLATION) |
| |
| DETAIL DRAWINGS (MDOT)(6 SHEETS) |
| DETAIL OF TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS, AND GENERAL NOTES |
| LOOP DETECTOR DETAILS FOR TRAFFIC SIGNAL INSTALLATION |
| PULL BOX AND CONDUIT TRENCHING DETAILS FOR FOR TRAFFIC SIGNAL INSTALLATION |
| MAST ARM AND PEDESTAL POLE DETAILS FOR TRAFFIC SIGNAL INSTALLATION |
| TYPICAL DETAILS OF CONTROLLER CABINET MOUNTINGS, TYPE POLE ATTACHMENTS AND MISCELLANEOUS DETAILS. |
| DETAILS OF CURB RAMP WITH DETECTABLE WARNINGS. |
| |
| STANDARD DRAWINGS (MDOT)(8 SHEETS) |
| PAVEMENT MARKING LEGEND DETAILS |

| PAVEMENT MARKING LEGEND DETAILS |
|---|
| EROSION CONTROL DETAIL |
| STANDARD ROADSIDE SIGNS |
| STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION. |
| STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION. |
| PIPE CULVERT INSTALLATION |
| CONCRETE PIPE COLLAR |
| FLARED END SECTION FOR CONCRETE PIPE |

| NOTICE TO DRAWING HOLDER | |
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| NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE | Ν |
| ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE | |
| OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD | |
| NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER | |
| PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE | |
| REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD | |
| HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND | |
| EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR | |
| RESULTING THEREFROM. | |

| | | | INFORMATION | DRAWING | REVISIONS | | | |
|----|-----------------|--------------------------------------|------------------|--------------------|---|----|--------|-----|
| | | | NO.: 2-5006-01 | N-S PROJECT | DESCRIPTION | BY | . DATE | NO. |
| | RY BELL | | 5006-GENOTES.dwg | FILENAME: | | | | |
| | NE LAD PHOTO TO | PEAR ORCHARD RD./ TOWNE CENTER BLVD. | Autocad 2002 | CADD TYPE: | u _{uu} , , , , , , , , , , , , , , , , , , , | | | |
| | * ENGINEER | | | SURVEYED BY: | | | | |
| | #12599 | RIDGELAND, MISSISSIPPI | DATE: 4/25/03 | DSGN: M.J.B. | · · · · · · · · · · · · · · · · · · · | | | |
| | | STP-8323-00(002) | DATE: 4/25/03 | DRWN: A.R.W. | | | | |
| PH | C THE OF MOSD | | DATE: | CHKD: | | | | |
| | SEAL: | | DATE: 6/3/04 | QA/QC: <i>R.T.</i> | | | | |

| | | | | | | | | | Sheet No. |
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| Working | Sheet |
|------------------|-------|
| No. | No. |
| PM-6 | 125 |
| | 142 |
| SN-3B | 224 |
| SN-4 | 225 |
| SN-4A | 226 |
| PI-1 | 300 |
| PC-1 | 301 |
| FE-1 | 328 |
| | |

GENERAL NOTES:

1) All signs, signals, pavement markings, and temporary traffic control devices are to conform to the Manual on Uniform Traffic Control Devices (2003 Edition).

2) Underground utilities shown on plans are plotted in their approximate locations from the best information available to the Engineer. The Engineer does not guarantee their accuracy or guarantee that all utilities are shown. The Contractor shall be responsible for making independent investigations, including subsurface investigations, as may be necessary. It is the responsibility of the Contractor to locate all underground utilities associated with the intersection lighting as necessary for installation of the signals.

3) All raised objects to be placed a minimum of 2.0 feet behind face of curb. New traffic signal poles to be placed a minimum of 5.0 feet behind face of curb unless written permission is authorized by Engineer. Placement of raised objects and new poles shall conform to A.D.A. requirements and AASHTO Roadside Design Guide clear zone standards.

4) Contractor to verify all mast arm pole locations to be sure there are no utility conflicts prior to ordering poles.

5) All poles, pullboxes, controllers, and pavement markings shall be field located by the Engineer and the Contractor at the nearest practical location indicated on the plan sheets.

6) Extend pole foundations to approximately 3 inches above the shoulder elevation or the top of curb elevation.

7) Controller timings to be provided by the City.

8) Contractor shall make the application for power service, coordinating with City Officials, in advance of requiring the electrical service.

9) Once Contractor begins work, the contractor is responsible for all maintenance of traffic as per M.D.O.T. pay item 618-A, Maintenance of Traffic.

10) Construction details, contained in Divisions 200 through Division 800 of the 2004 edition of the MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, shall be used unless otherwise noted in the contract documents.

11) Cones shall be narrow profile with a minimum height of 28 inches and a minimum weight of ten (10) pounds. Cones used in speed zones equal to or greater than 45 mph shall be narrow profile with a minimum height of 28 inches and a minimum weight of fifteen (15) pounds. All cones shall be approved by the engineer prior to use.

12) All plastic drums shall have a ballasting collar made from recycled truck tires or other suitable material.

13) Fluorescent orange sheeting shall be used on all construction and traffic control signs except for those designated in plans to be black legend and border on white background.

14) Street name signs shall be cost absorbed.

15) Pull boxes for the traffic signal installations shall be cost absorbed.

16) All curb, sidewalk and pavement to be removed shall be saw cut at the limit of removal prior to any removal.

STRIPING NOTES:

1) The work under this section consists of the Contractor furnishing all materials, preparing the pavement surface and installing the pavement markings. All pavement marking materials shall be approved by the engineer prior to installation.

2) The dimensions shown to pavement stripes are to the center of the stripe or in the case of a double stripe, to the center of the double stripe.

3) Contractor to spot mark entire project before striping it. Contractor to call the Engineer to make arrangements for inspection prior to applying any markings. Any striping applied before inspection shall be subject to removal and replacement at Contractor's expense.

4) Signs that need to be removed/relocated during construction shall be done by the Contractor at his expense. All traffic control signs installed or relocated within the right—of—way shall be done by the Contractor. Any questions concerning signing, shall be directed to the engineer.

5) All raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow.

6) New pavement marking may be placed over existing markings with approval by the Engineer.

NEEL-SCHAFFER

P.O. Box 22625 / 39225-2625 666 North Street, Suite 201 Jackson, MS 39202 (601)948-3071 / FAX: (601)948-3178

DETAILED INDEX AND **GENERAL NOTES**

WORKING NUMBER:

SUMMARY OF QUANTITIES

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1

| PAY ITEM NO. | DESCRIPTION | |
|-----------------------|--|----------|
| 201-A | CLEARING AND GRUBBING | |
| 202–A 202–B | REMOVAL OF OBSTRUCTIONS REMOVAL OF CONCRETE COMBINATION CURB AND GUTTER | ┝ |
| 202 B | REMOVAL OF ASPHALT PAVEMENT. ALL DEPTHS | ┢ |
| 202–B | REMOVAL OF FLARED END SECTION | F |
| 202-B | REMOVAL OF FLARED END SECTION REMOVAL OF EXISTING PAVEMENT MARKINGS, 6" EQUIVALENT LENGTH | F |
| 203–E | BORROW EXCAVATION, FM, CLASS B15, AH | Γ |
| 203–G | EXCESS EXCAVATION, LVM | |
| 211-В | TOPSOIL FOR SLOPE TREATMENTS, CONTRACTOR FURNISHED | L |
| <u>212–B</u> | STANDARD GROUND PREPARATION | L |
| 213–A 213–B | AGRICULTURAL LIMESTONE | ┝ |
| 213-B 214-A | COMBINATION FERTILIZER, 13–13–13 SEEDING, BERMUDA GRASS | ŀ |
| 214-A | SEEDING, ANNUAL RYE | F |
| 215-A | VEGETATIVE MATERIAL FOR MULCH | F |
| 216-B | SOLID SODDING, CENTIPEDE | |
| 219-A | WATERING | L |
| 234-A | TEMPORARY SILT FENCE | L |
| 235-A | TEMPORARY EROSION CONTROL CHECKS | ┝ |
| <u>403–A</u> 503–C | HOT MIX ASPHALT, MT, 9.5mm MIXTURE SAWCUT, FULL DEPTH | \vdash |
| 601-B | CLASS "B" CONCRETE, MINOR STRUCTURES | ŀ |
| 603–CA | 24" REINFORCED CONCRETE PIPE, CLASS III | F |
| 603-CB | 24" REINFORCED CONCRETE END SECTION | Γ |
| 608-B | CONCRETE SIDEWALK, WITH REINFORCEMENT, 6" THICK | L |
| | DETECTABLE WARNINGS, PER PLANS | L |
| <u>618–B</u> | ADDITIONAL CONSTRUCTION SIGNS | ┡ |
| <u>618–A</u> | MAINTENANCE OF TRAFFIC | ┝ |
| 620-A 626-G | MOBILIZATION 6" THERMOPLASTIC DETAIL STRIPE, YELLOW | ┢ |
| 626-G | 6" THERMOPLASTIC DETAIL STRIPE, WHITE | r |
| 626-H | THERMOPLASTIC LEGEND, WHITE, 6" EQUIVALENT LENGTH | Γ |
| 626-H | THERMOPLASTIC LEGEND, WHITE | |
| <u>627–C</u> | RED-CLEAR REFLECTIVE RAISED MARKERS | Ļ |
| <u>627–D</u> | TWO-WAY YELLOW REFLECTIVE RAISED MARKERS | ┝ |
| 630-A 630-C | STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS STEEL U-SECTION POSTS, 3.0 TO 3.5 LB/FT | ┢ |
| 635-A | VEHICLE LOOP ASSEMBLIES | ŀ |
| 636-A | SHIELDED CABLE | Γ |
| 638-A | LOOP DETECTOR AMPLIFIER, CARD RACK MOUNTED (4-CHANNEL) | |
| 638-A | TRAFFIC SIGNAL EQUIPMENT POLE, TYPE III, 22' SHAFT, 2-45' ARMS | Ļ |
| <u>639–A</u> | TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 30' ARM | ┡ |
| <u>639–A</u> | TRAFFIC SIGNAL EQUIPMENT POLE, TYPE IV, 30' SHAFT, 35' ARM TRAFFIC SIGNAL EQUIPMENT POLE, TYPE VI | ┝ |
| <u>639–A</u> 640–B | TRAFFIC SIGNAL HEADS, TYPE 1, LED | ┢ |
| 640-B | TRAFFIC SIGNAL HEADS, TYPE 6, LED | F |
| 642-A | SOLID STATE TRAFFIC ACTUATED CONTROLLERS, TYPE 8A | Γ |
| <u>644–A</u> | OPTICAL DETECTOR | |
| <u>644–B</u> | OPTICAL DETECTOR CABLE | Ļ |
| <u>644–C</u> | PHASE SELECTOR, 4 CHANNEL PULLBOX, TYPE 1 | ┞ |
| <u> </u> | PULLBOX, TYPE 2 | ┢ |
| 666-B | ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #8, 2 CONDUIT | t |
| 666-B | ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #10, 2 CONDUIT | Γ |
| <u>666–B</u> | ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #14, 5 CONDUIT | Ĺ |
| <u>666-B</u> | ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG #14, 7 CONDUIT | Ļ |
| <u>666–D</u> | ELECTRIC CABLE, AERIAL SUPPORTED IN CONDUIT, IMSA 20-1, AWG #14, 7 COND. | ┞ |
| <u>668–A</u> | TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 1" TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2" | ł |
| <u> </u> | TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 3" | t |
| 668-E | TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLL PIPE, 1" | ſ |
| 668-E | TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLL PIPE, 2" | ſ |
| 699-A | CONSTRUCTION STAKES | Ļ |
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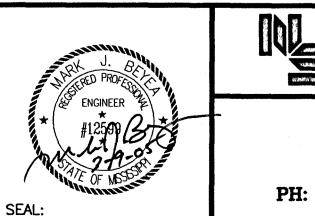
| NOTICE TO DRAWING HOLDER | | | | REVISIONS | D | RAWING | INFORMA | TION |
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| ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE | | | | | FILENA | ME: | 50 | 06-SQ.dwg |
| OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER | | | | | CADD 1 | YPE: | Au | tocad 2002 |
| PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN | | | | | SURVE | ED BY: | | |
| VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE | | | | | DSGN: | M.J.B. | DATE: | 3/19/03 |
| REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND | | | | | DRWN: | A.R.W. | DATE: | 3/19/03 |
| EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR | | | | | CHKD: | | DATE: | |
| RESULTING THEREFROM. | | | | | QA/QC | : <i>R.T.</i> | DATE: | 6/3/04 |

| UNIT | | IARD RD. 🛛 | |
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| C.Y. | 50 | | |
| S.Y. | 325 | | |
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- 1 MAST ARM POLES AND HARDWARE TO BE HOT DIPPED GALV. FINISH POLES.
- 2 TRAFFIC SIGNAL HEADS TO BE BLACK IN COLOR, PUSHBUTTONS TO BE PELOC MODEL # SE 2039 WITH SE 1013 OR EQUAL AND BLACK IN COLOR.
- **3** CONTROLLER TO BE EAGLE EPAC
- (4) UNIT PRICE SHALL INCLUDE ALL EXCAVATION, INSTALLATION AND MATERIALS. BACKFILL SHALL BE COVERED UNDER PAY ITEM 203-E, BORROW EXCAVATION.
- 5 TO BE USED AS DIRECTED BY THE ENGINEER.
- 6 INCLUDES 2.0 CY TO BE USED AS DIRECTED BY THE ENGINEER.
- SOD ON SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL SHALL BE PINNED TO SLOPES WITH TWO 8" STEEL WIRE STAPLES PER BLOCK. STAPLES SHALL BE COST ABSORBED.
- 8 TO BE USED FOR PATCHING AS DIRECTED BY THE ENGINEER.
- 9 REMOVED ITEM BECOMES PROPERTY OF CONTRACTOR.
- (1) INCLUDES ALL ITEMS NOTED WITH THIS PAY ITEM ON PLANS.
- (1) SHALL INCLUDE ALL CONSTRUCTION LAYOUT AND STAKING. ENGINEER WILL PROVIDE COORDINATES FOR LOCATION OF SPECIFIC ELEMENTS UPON REQUEST.

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|--------------|-----------------------------------|----------------------|--------------------|----------------------|---------------------------------------|---|--|--|--|--|
| | VEGETATION SCHEDULE | | | | | | | | | |
| | | SEASO | NAL APPLICA | TIONS-DATE: | | | | | | |
| ERUS | SION CONTROL ITEMS | SPRING & | & SUMMER | FALL & | & WINTER | REQUIREMENTS | | | | |
| PAY ITEM NO. | ITEMS | RATES | DATES | RATES | DATES | | | | | |
| 211-B | TOPSOIL FOR SLOPE TREATMENT (LVM) | 4" THICK | MARCH 1 TO SEPT. 1 | 4" THICK | SEPT. 1 TO MARCH 1 | TOPSOIL REQUIRED ON SLOPES DETERMINED BY THE ENGINEER | | | | |
| | | | | | | DURING CONSTRUCTION. | | | | |
| 212-B | STANDARD GROUND PREPARATION | PER SQ.YD. | MARCH 1 TO SEPT. 1 | PER SQ.YD. | SEPT. 1 TO MARCH 1 | GROUND PREPARATION REQUIRED ON AREAS TO RECEIVE SOLID SODDING OR SEEDING, AS APPLICABLE. | | | | |
| 213-A | AGRICULTURAL LIMESTONE | 3 TONS/ACRE | MARCH 1 TO SEPT. 1 | 7 7040 (4005 | SEPT. 1 TO MARCH 1 | | | | | |
| 210 A | | J TUNS/AURE | MARCH I TO SET . 1 | 3 TONS/ACRE | JEIT. I TO MARCH I | LIMESTONE SHALL BE MECHANICALLY SPREAD UNIFORMLY AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING. | | | | |
| 213-B | COMBINATION FERTILIZER (13-13-13) | 1000 LBS./ACRE | MARCH 1 TO SEPT. 1 | 1000 LBS./ACRE | SEPT. 1 TO MARCH 1 | FERTILIZER SHALL BE MECHANICALLY SPREAD UNIFORMLY | | | | |
| | | | | | | AND INCORPORATED INTO THE SOIL PRIOR TO PLANTING. | | | | |
| 214-A | SEEDING (BERMUDAGRASS) | 20 LBS./ACRE | MARCH 1 TO SEPT. 1 | 20 LBS./ACRE | SEPT. 1 TO MARCH 1 | SEED REQUIRED ON DISTURBED AREAS. UNHULLED SEED | | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | MAY BE REQUIRED DURING THE DORMANT SEASON AS DIRECTED. | | | | |
| 214-A | SEEDING (ANNUAL RYE) | | ····· | 20 LBS./ACRE | AUGUST 1 TO APRIL 1 | SEED REQUIRED ON DISTURBED AREAS. | | | | |
| 215-A | VEGETATIVE MATERIAL FOR MULCH | 2 TONS ACRE (EST.) | MARCH 1 TO SEPT. 1 | | SEPT. 1 TO MARCH 1 | | | | | |
| 213-4 | VEGETATIVE MATERIAL FOR MOLEN | Z TUNS AURE (EST.) | MANON I IO SEFT. I | 2 TONS/ACRE (EST.) | SEPT. I TO MARCH I | THE ENGINEER WILL DESIGNATE THE RATES OF APPLICATION (SEE SUBSECTION 215.03.3). | | | | |
| 216-A | SOLID SODDING | PER SQ.YD. | MARCH 1 TO SEPT. 1 | PER SQ. YD. | SEPT. 1 TO MARCH 1 | SOLID SOD REQUIRED ON AREAS SPECIFIED IN THE | | | | |
| | | | | | | CONTRACT OR BY THE ENGINEER. | | | | |
| 219-A | WATERING | 20 GALS./S.Y. (EST.) | MARCH 1 TO SEPT. 1 | 20 GALS. S.Y. (EST.) | SEPT. 1 TO MARCH 1 | TO BE USED AS DIRECTED IN THE PLANTING AND | | | | |
| L | L | | | | | ESTABLISHING SOLID SOD. | | | | |

PEAR ORCHARD RD./ TOWNE CENTER BLVD. RIDGELAND, MISSISSIPPI STP-8323-00(002)

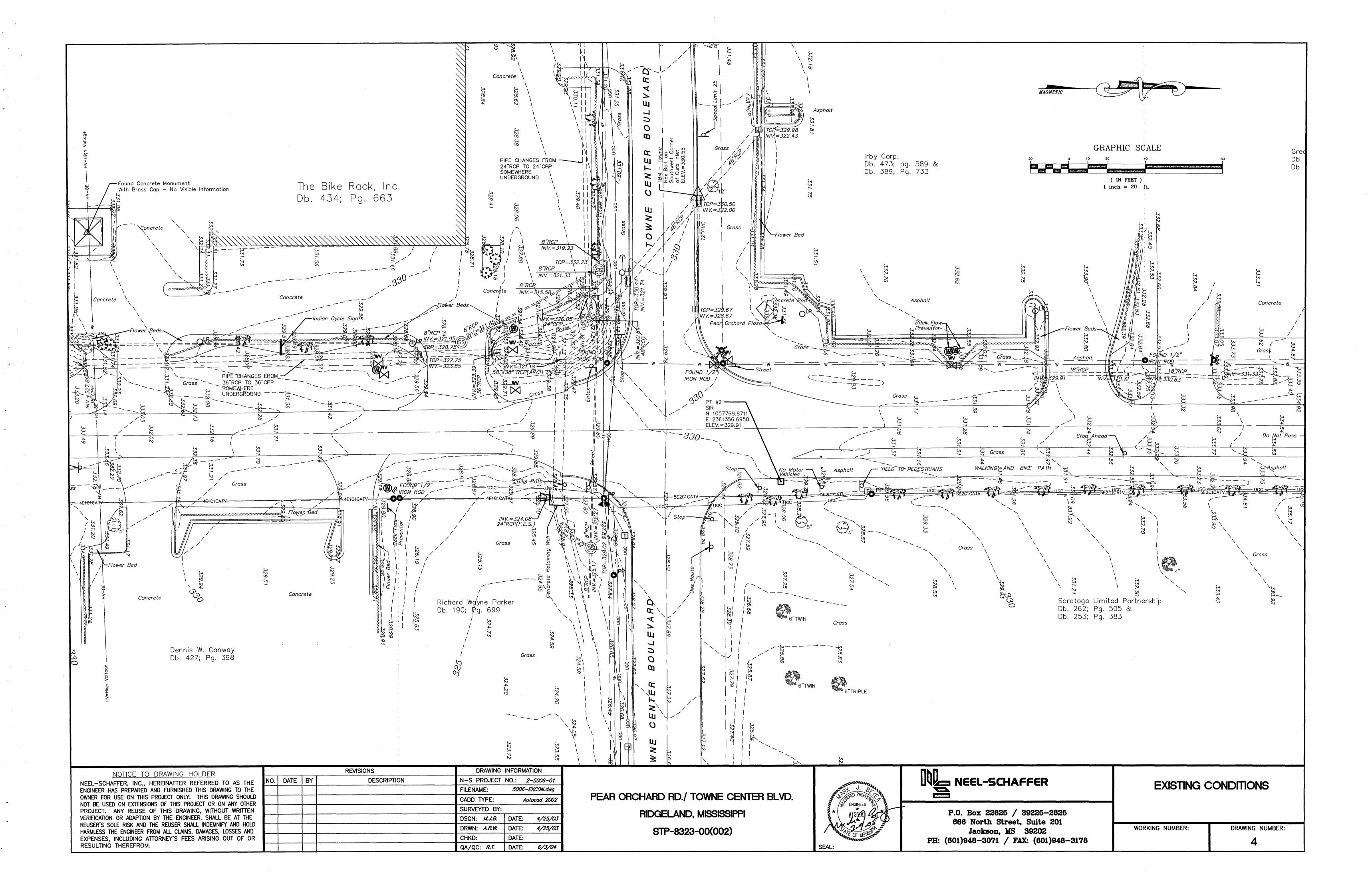


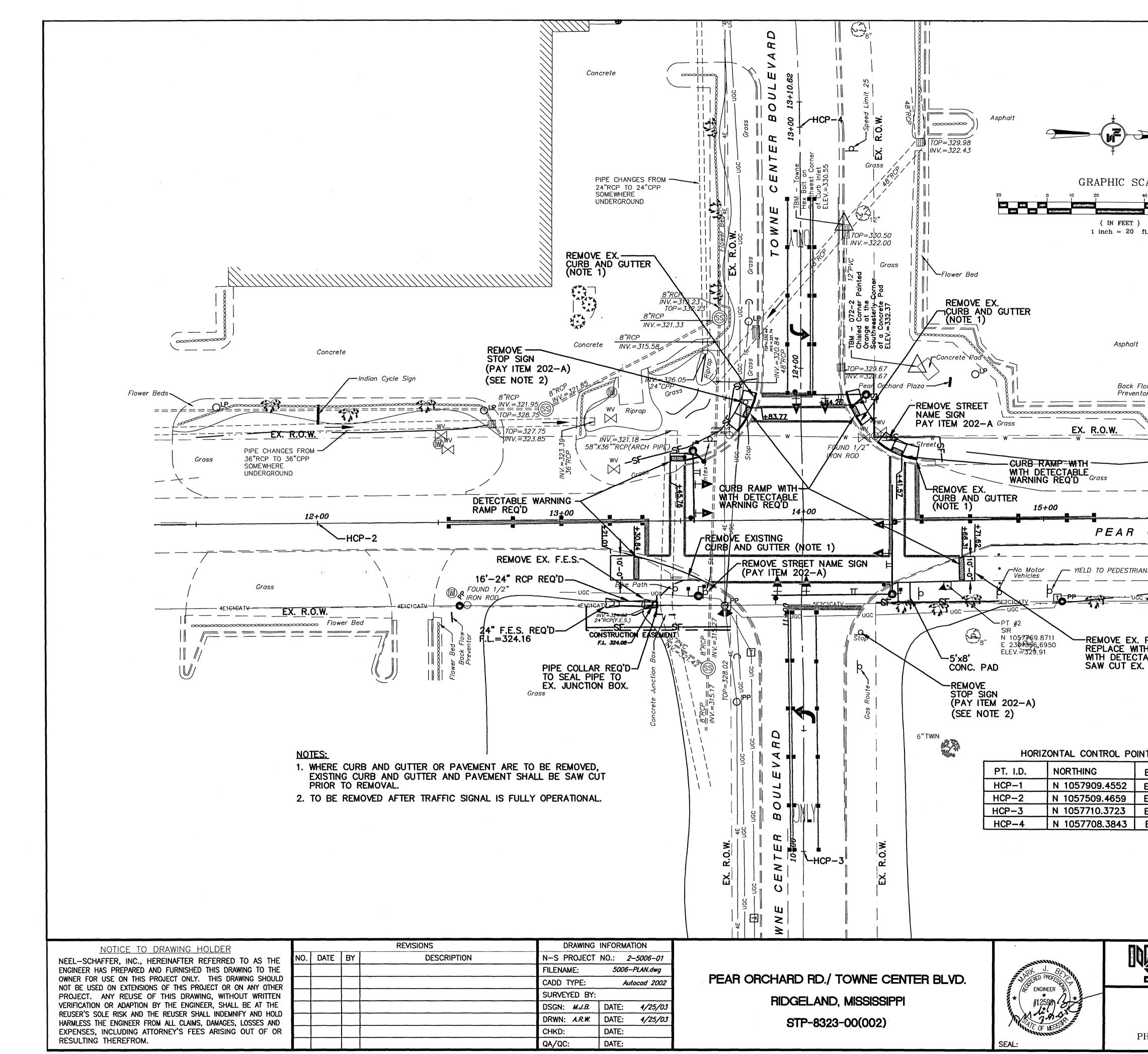
| NEEL-SCHAFFER | |
|--|------------|
| P.O. Box 22625 / 39225-2625 666 North Street, Suite 201 | QUANTITIES |

Jackson, MS 39202 PH: (601)948-3071 / FAX: (601)948-3178

WORKING NUMBER:

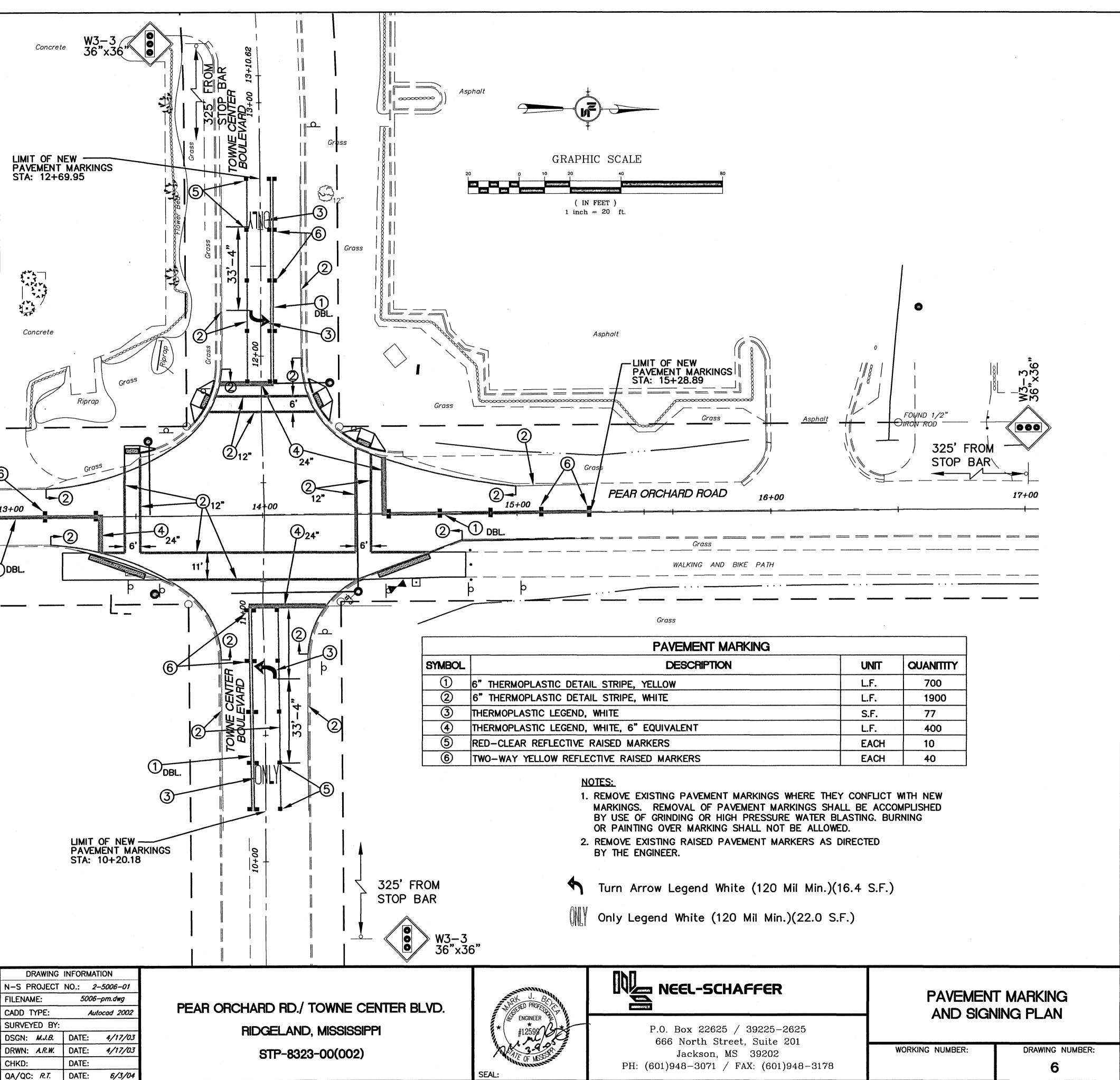
DRAWING NUMBER: 3



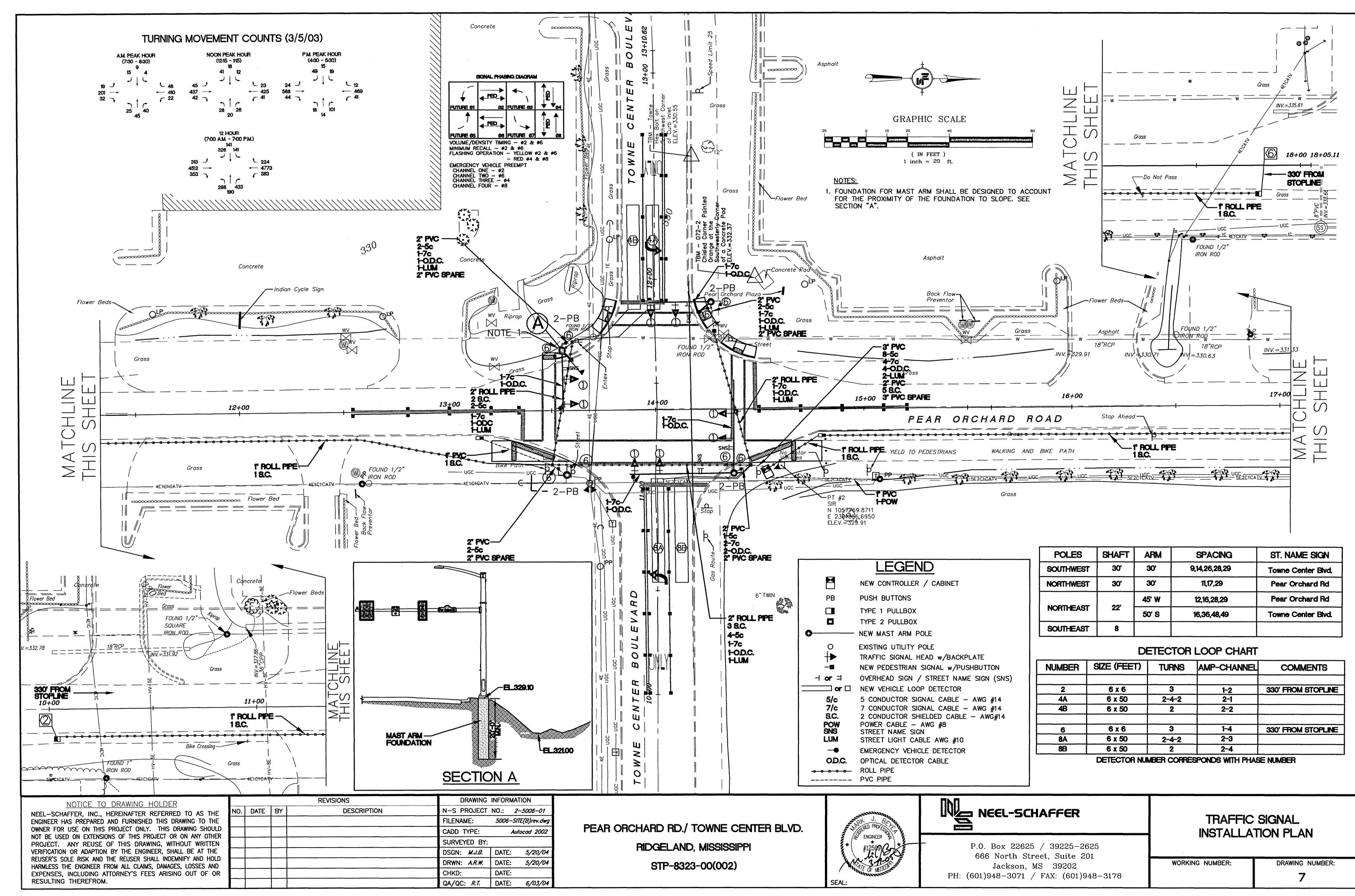


| Flower Beds Grass WV Grass | $ \begin{array}{c} 0 \\ FOWND 1/2" \\ \hline 0 \\ \hline \hline 0 \\ \hline 0 \\ \hline \hline 0 \\ \hline 0 \\ \hline \hline \hline \hline 0 \\ \hline \hline \hline \hline \hline 0 \\ \hline \hline$ | $\begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $ |
|---|---|---|
| 16+00 HCP-1 ORCHARD ROAD Stop Ahead | | 17+00 |
| Grass WALKING AND BIKE PATH WALKING AND BIKE PATH UGC UGC SE2CICATV EX. R.O.W. Grass PATH AND H CURB RAMP ABLE WARNING ASPHALT | | |
| TS EASTING E 2361328.4118 E 2361331.3375 E 2361467.0328 E 2361167.0754 | | |
| NEEL-SCHAFFER JACKSON, MISSISSIPPI | | POSED EMENTS |
| P.O. Box 22625 / 39225–2625 666 North Street, Suite 201 Madison, MS 39202 H: (601)948–3071 / FAX: (601)948–3178 | WORKING NUMBER: | DRAWING NUMBER: 5 |

| | | <u> </u> |
|--|-------------------------------------|---------------------------------------|
| | | |
| | Concrete | |
| | Concrete Indian Cycle Sign | |
| Flower Beds | | A A A A A A A A A A A A A A A A A A A |
| Grass LIMIT PAVE STA: | OF NEW MENT MARKINGS 12+55.07 | |
| | 12+00 | 15 |
| Grass | | D FOUND 1/2" |
| 325' FROM STOP BAR W3-3 36"x36" | Flower Bed | Flower Bed Back Flow Preventor |
| | | |
| | | |
| | | |
| | | |
| | REVISIO | DNS |
| NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE | NO. DATE BY | DESCRIPTION |
| OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER | | |
| PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD | | |
| HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR | | |
| RESULTING THEREFROM. | | |

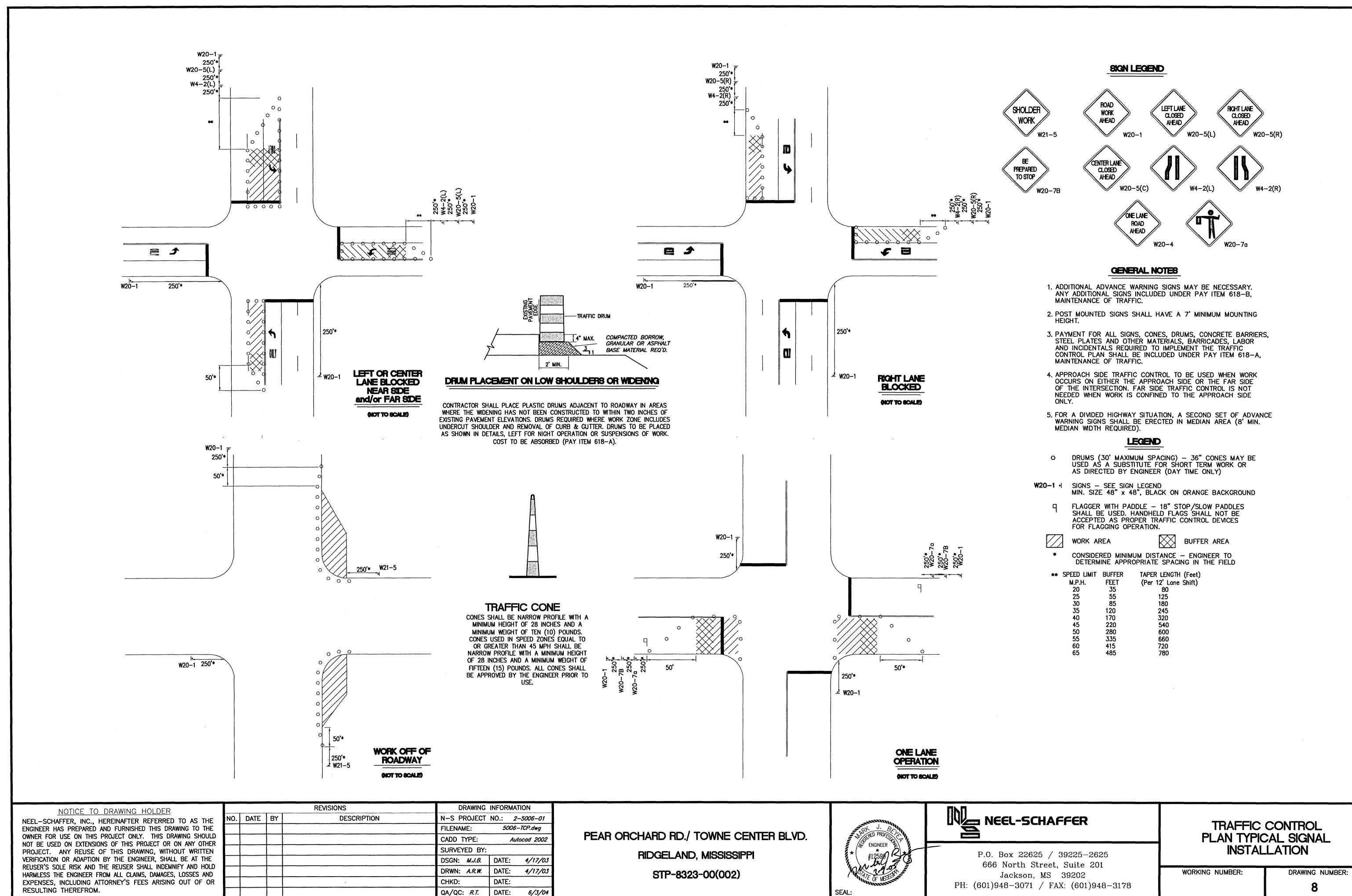


| undan telakok kelentek Analasi telakok Analasi analasi kelentek | NEEL-SCHAFFER |
|---|---------------|
| | |



| POLES | SHAFT | ARM | SPACING | ST. NAME SIGN |
|-----------|-------|-------|---------------|--------------------|
| SOUTHWEST | 30' | 30' | 9,14,26,28,29 | Towne Center Blvd. |
| NORTHWEST | 30' | 30' | 11,17,29 | Pear Orchard Rd |
| | | 45' W | 12,16,28,29 | Pear Orchard Rd |
| NORTHEAST | 22' | 50' S | 16,36,48,49 | Towne Center Bivd. |
| SOUTHEAST | 8 | | | |

| NUMBER | SIZE (FEET) | TURNS | AMP-CHANNEL | COMMENTS |
|--------|-------------|-------|-------------|--------------------|
| 2 | 6 x 6 | 3 | 1-2 | 330' FROM STOPLINE |
| 4A | 6 x 50 | 2-4-2 | 2-1 | |
| 48 | 6 x 50 | 2 | 2-2 | |
| 6 | 6 x 6 | 3 | 1-4 | 330' FROM STOPLINE |
| 8A | 6 x 50 | 2-4-2 | 2-3 | |
| 8B | 6 x 50 | 2 | 2-4 | |



| Ar X + 34 | AREA UNDER CONSTRUCTION AREA UNDER CONSTRUCTION PEAR ORCHARD ROAD NOT NOT NOT NOT NOT NOT NOT NOT |
|--|---|
| NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENCINEER HAS OPERAPED AND ELEMISTED THIS DRAWING TO THE | REVISIONS NO. DATE BY DESCRIPTION 1 |
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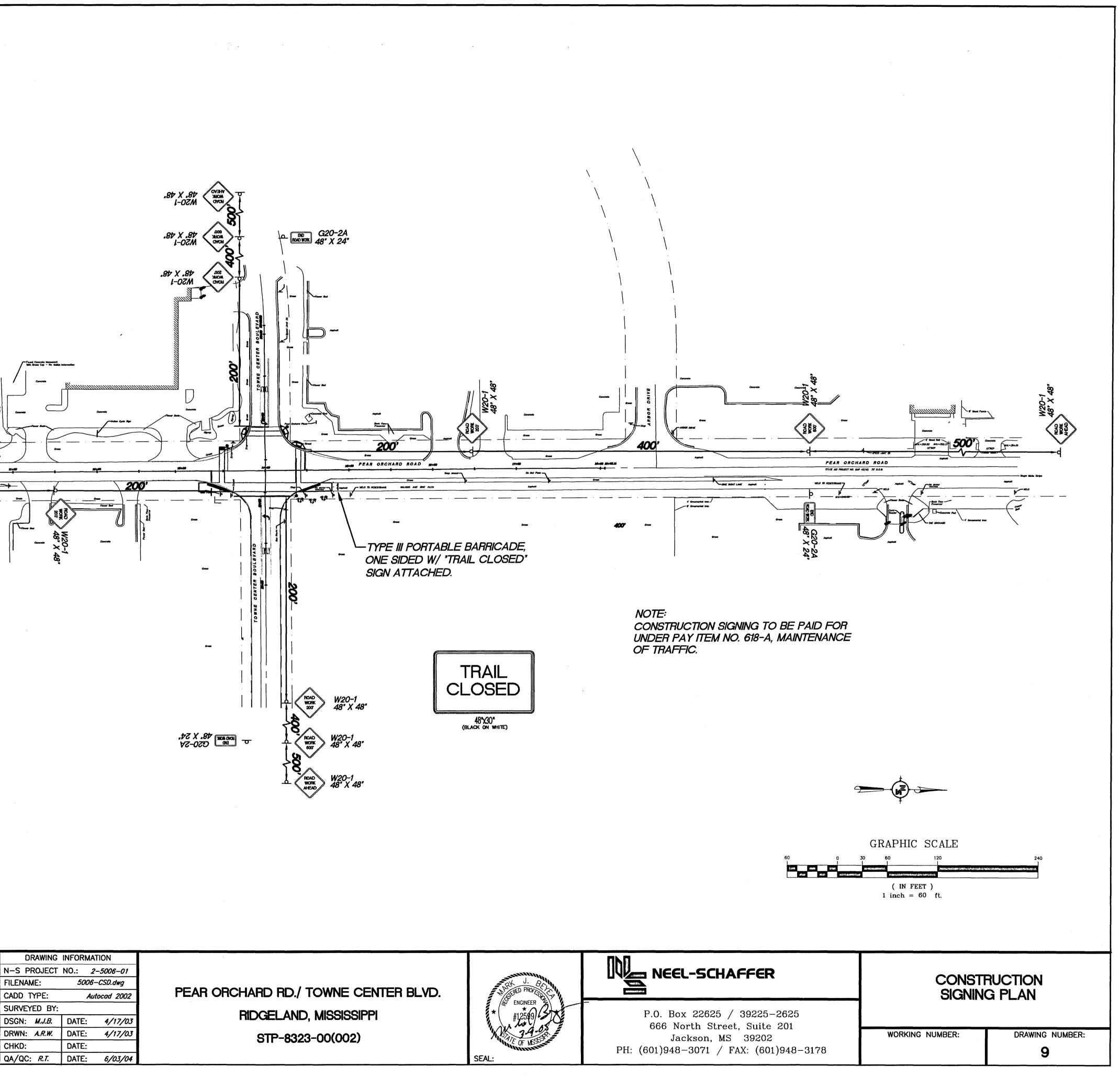
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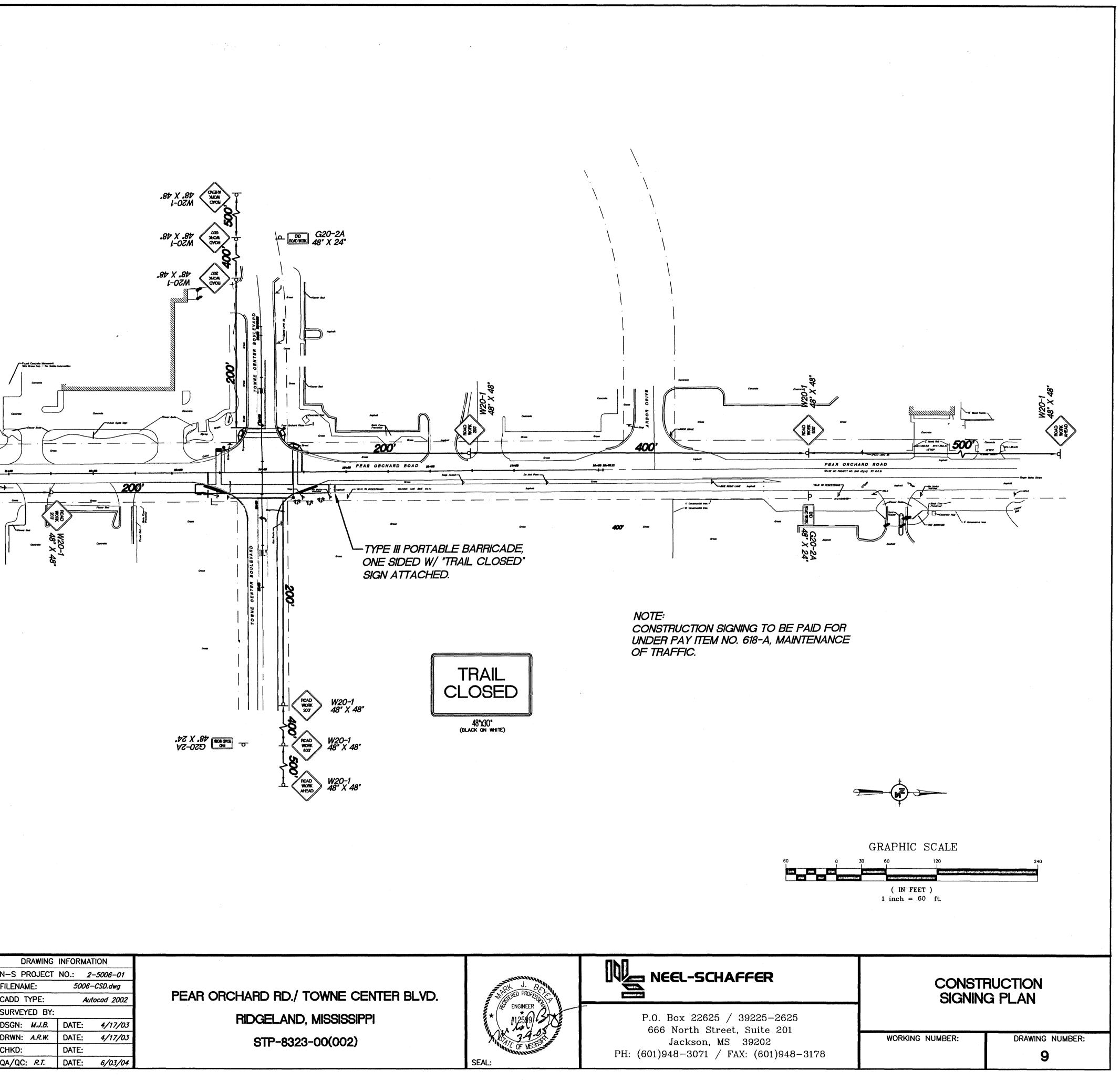
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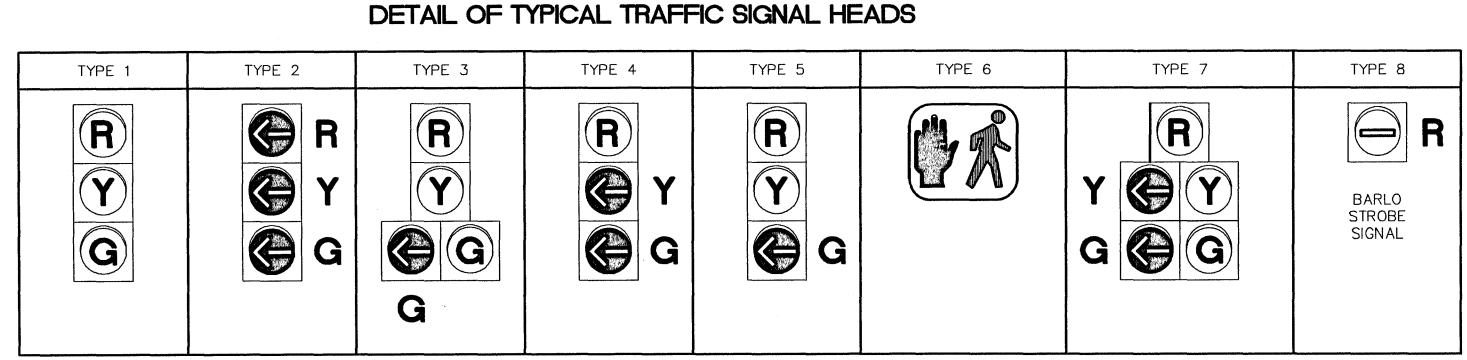
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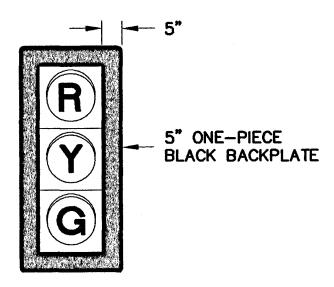
1. TYPE "A" SIGNAL HEAD IS TO BE OPTICALLY PROGRAMMED.

2. LETTER "R" ON HEAD TYPES MEANS RIGHT TURN ARROW(S).

3. TYPE 6 SIGNAL HEAD TO BE FURNISHED WITH R10-4SP-1 SIGN & PEDESTRIAN PUSHBUTTON (PELCO # SE 2039 WITH SE 1013 OR EQUAL).

4. TYPE 7 SIGNAL HEAD TO BE FURNISHED WITH R10-12 SIGN WHEN INDICATED ON PLANS.

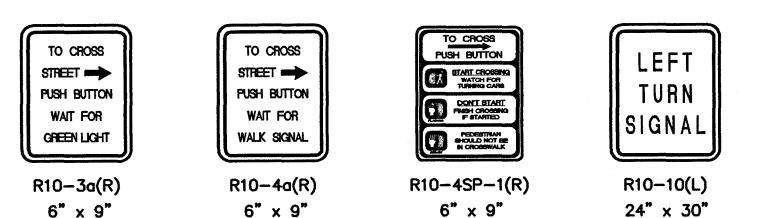
DETAIL OF TRAFFIC SIGNAL WITH BACKPLATE



NOTE:

ALL SIGNAL HEADS SHALL INCLUDE BACKPLATES UNLESS OTHERWISE NOTED ON TRAFFIC SIGNAL INSTALLATION SHEETS.

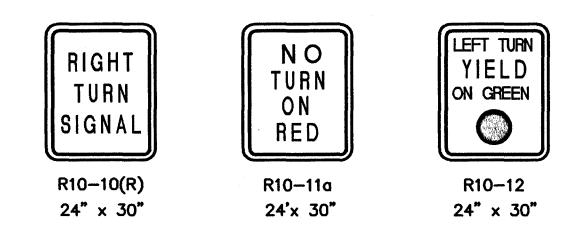
DETAIL OF TYPICAL TRAFFIC SIGNAL SIGNS



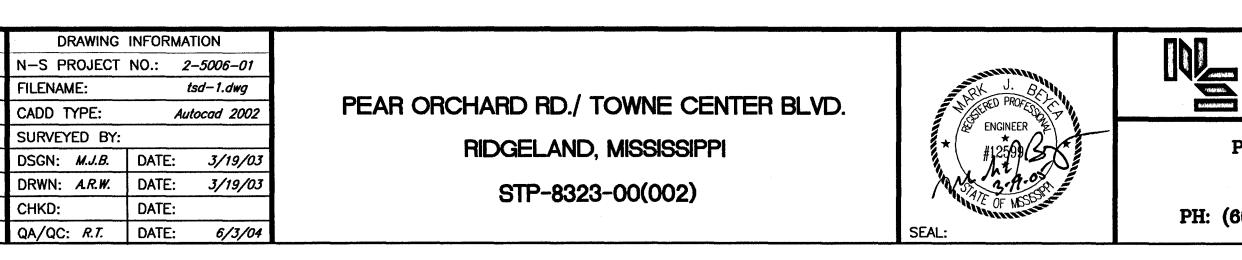
NOTES:

- 1. ALUMINUM SIGN BLANKS ARE TO BE ALLOY 5052-H38 AND 0.08" (NOMINAL) THICK. 2. THE SIGNS ARE TO BE SUPPLIED WITH MOUNTING BRACKETS FOR SPAN WIRE MOUNTING OR POLE MOUNTING AS REQUIRED. (BRACKETS AND MOUNTING HARDWARE SHALL BE COST ABSORBED.)
- 3. NUMBER 12 PLATED JACK CHAINS SHALL BE ATTACHED TO THE BOTTOM OF ALL SPAN WIRE MOUNTED SIGNS.
- 4. CHAINS SHALL BE ATTACHED TO SIGN AND TETHER USING "S" HOOKS.
- 5. THE SIZE OF THE SIGN BLANK, LEGEND, BORDER AND THE COLOR OF THE BACKGROUND AND LEGEND IS TO CONFORM TO THE M.U.T.C.D.
- 6. THE BACKGROUND SHALL BE REFLECTORIZED USING ENCAPSULATED LENS SHEETING.
- 7. TYPE R10-3a SIGN REQUIRED WITH PEDESTRIAN PUSHBUTTON WHEN TYPE 6 SIGNAL IS NOT USED.

| NOTICE TO DRAWING HOLDER | | | | REVISIONS |
|--|-----|---------------------------------------|----|-------------|
| NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE | NO. | DATE | BY | DESCRIPTION |
| ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE | | | | |
| OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER | | | | |
| PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN | | | | |
| VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE | | | | |
| REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND | | | | |
| EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR | | · · · · · · · · · · · · · · · · · · · | | |
| RESULTING THEREFROM. | | | | |



- TO HIGHWAY SAFETY. ADJACENT SURFACE AS DIRECTED BY THE ENGINEER.
 - **8. DESIGN WIND LOADS FOR TRAFFIC SIGNAL SUPPORTS SHALL BE TO 70 M.P.H. THE CONTRACTOR SHALL PROVIDE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS.
 - *9. DETERMINATION OF REQUIRED SIZES, LENGTHS AND GAUGES OF TYPE I, II, III AND IV STEEL POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SECTION 722.02 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN PLANS OR SPECIFICATIONS.
 - *10. THE TOP OF THE POLE FOUNDATION SHALL BE 6" ABOVE THE GROUND. THE CONTRACTOR SHALL PROVIDE POLES OF SUFFICIENT LENGTH PLUS 2 FEET TO PROVIDE REQUIRED VERTICAL CLEARANCE OF THE TRAFFIC SIGNAL HEADS WITHOUT EXTENDING THE FOUNDATION ABOVE THE FINISHED GRADE OF THE POINT WHERE THE POLE IS LOCATED, EVEN THOUGH THIS MAY BE BELOW THE FINISHED GRADE OF THE ROADWAY.
 - 21. TRAFFIC SIGNAL CONTROLLER SHALL BE EQUIPPED WITH A SERIAL NOTES NO. 9, 10 & 11 THAT REFERENCE THE CONTRACTOR TO COMMUNICATIONS HUB "STREET COM" AND CABLES. * DESIGN SIGNAL POLES DO NOT APPLY IF THE SIGNAL POLE CHART DESIGN(S) ARE INDICATED ON THE PLAN SHEET(S).
 - ** DESIGN WIND LOADS INCREASE TO 80 M.P.H. FOR SIGNAL INSTALLATIONS IN THE THREE COAST COUNTIES (HANCOCK, HARRISON & JACKSON).



- 1. INTERCONNECT CABLE SHALL BE EITHER IMSA 40-2-1991 OR IMSA 40-4-1991 SIGNAL CABLE, STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
- 2. SIGNAL SUPPLY CABLE SHALL BE IMSA 20-1-1991 SIGNAL CABLE, STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
- 3. POWER SUPPLY CABLE SHALL BE IMSA 20-1-1991 SIGNAL CABLE. STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
- 4. DETECTOR SHIELDED CABLE SHALL BE IMSA 50-2-1991 SIGNAL CABLE, AWG #14 OR AWG # 18 STRANDED COPPER CONDUCTORS, FROM PULLBOX TO CÖNTROLLER. NÜMBER OF CONDUCTORS AS SHOWN ON PLANS TO CONTROLLER. NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
- 5. POLES, SIGNAL HEADS, EQUIPMENT BOXES, PULLBOXES AND CONDUIT LOCATIONS MAY BE VARIED SLIGHTLY TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, SIGNAL HEAD OR POLE LOCATIONS SHALL BE WITHIN REQUIREMENTS OUTLINED IN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SYMBOLS AND ABBREVIATIONS USED ON PLANS: AND HIGHWAY DESIGN AND OPERATIONAL PRACTICES RELATED
- 6. POLES AND FOUNDATIONS OF EXISTING SIGNAL INSTALLATIONS SHALL BE CUT OFF 6" BELOW GROUND OR REMOVED AND AREA RESTORED TO MATCH
- 7. LOOP AMPLIFIERS SHALL BE REQUIRED AS SHOWN ON PLANS WHERE TWO OR MORE LOOPS ARE CONNECTED TO THE SAME CHANNEL, THEY SHALL BE WIRED IN SERIES.

GENERAL NOTES

- 11. POLE AND BASE MOUNTED CABINET GRADES TO BE ESTABLISHED TO ± 3 " AS DIRECTED BY THE ENGINEER.
- 12. TRAFFIC SIGNAL CABINETS AND CONTROLLERS ARE TO BE WRED TO PROVIDE FOR ALL PHASES INCLUDING FUTURE PHASES IN ACCORDANCE WITH THE PHASES SEQUENCE DIAGRAM.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ELECTRICAL SERVICE FROM THE POWER COMPANY SERVICE POINT TO THE TRAFFIC SIGNAL POLE NEAREST THE CONTROLLER, COST TO BE ABSORBED. THE SERVICE SHALL THEN BE RUN TO THE CONTROLLER AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE APPLICATION WITH THE POWER COMPANY IN ADVANCE OF NEEDING THE SERVICE.
- 14. IF IT IS NECESSARY TO RUN ELECTRIC SERVICE CABLE FROM ONE POLE TO ANOTHER, THE SERVICE CABLE SHALL BE LASHED TO A SEPARATE MESSENGER CABLE LOCATED 2 FT. MIN. ABOVE THE SIGNAL CABLE.
- 15. PEDESTRIAN PUSHBUTTONS AND SIGNS WHERE REQUIRED ON PLANS SHALL BE INSTALLED WITH NO ADDITIONAL PAYMENT (ABSORBED ITEM). SIDE OF POLE LOCATIONS OF PUSHBUTTONS MAY BE FIELD ADJUSTED. PUSHBUTTONS TO BE PELCO # SE 2039 WITH SE 1013 (ISOLATOR WITH LED LATCH ASSEMBLY) OR EQUAL.
- 16. FIELD DRILL AND TAP EXISTING POLES WHERE PEDESTRIAN SIGNALS AND PUSHBUTTONS ARE REQUIRED ON PLANS. (ABSORBED ITEM).
- 17. REFER TO WORKING NUMBER SHT.14 "CONDUIT ENTRANCE DETAIL" WHEN NEW CONDUIT(S) ARE REQUIRED AT EXISTING SIGNAL POLES OR CONTROLLERS.
- 18. MESSENGER CABLE AND OTHER SUPPORTING DEVICES WHERE REQUIRED SHALL BE ABSORBED IN THE PAY ITEMS FOR ELECTRIC CABLE (SEE SECTION 908-666.03.3).
- 19. ALL CONDUIT IS TYPE IV (PVC) UNLESS OTHERWISE NOTED ON PLANS. ALL PULLBOXES ARE TYPE I UNLESS OTHERWISE NOTED ON PLANS.
- 20. FOR PROTECTED/PERMITTED LEFT TURN PHASING, TYPE 7 OR 7A TRAFFIC SIGNAL HEADS (FIVE SECTION HEADS) SHALL OPERATE SUCH THAT THE CIRCULAR INDICATIONS DISPLAYED WILL BE IDENTICAL AND SIMULTANEOUS TO THE CIRCULAR INDICATIONS FOR THE ADJACENT THROUGH MOVEMENT SIGNAL HEADS; i.e. A CIRCULAR RED AND EITHER A GREEN ARROW OR YELLOW ARROW MAY BE DISPLAYED SIMULTANEOUSLY IN THE SAME FIVE SECTION HEAD.
- 22. ALL SIGNAL HEADS, INCLUDING PEDESTRIAN HEADS SHALL BE BLACK IN COLOR.

NEEL-SCHAFFER DETAIL OF TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS, AND P.O. Box 22625 / 39225-2625 **GENERAL NOTES** 666 North Street. Suite 201 WORKING NUMBER: DRAWING NUMBER: Jackson, MS 39202 PH: (601)948-3071 / FAX: (601)948-3178 10

| LANE WIDTH | ⁹⁰ A ⁰⁶ | "B " | "C" |
|------------|-------------------------------|-------------|-----|
| 10' | 2.5' | 2.5' | 5' |
| 11' | 2.5' | 3' | 6' |
| 12' | 3' | 3' | 6' |
| 14' | 3' | 4' | 8' |

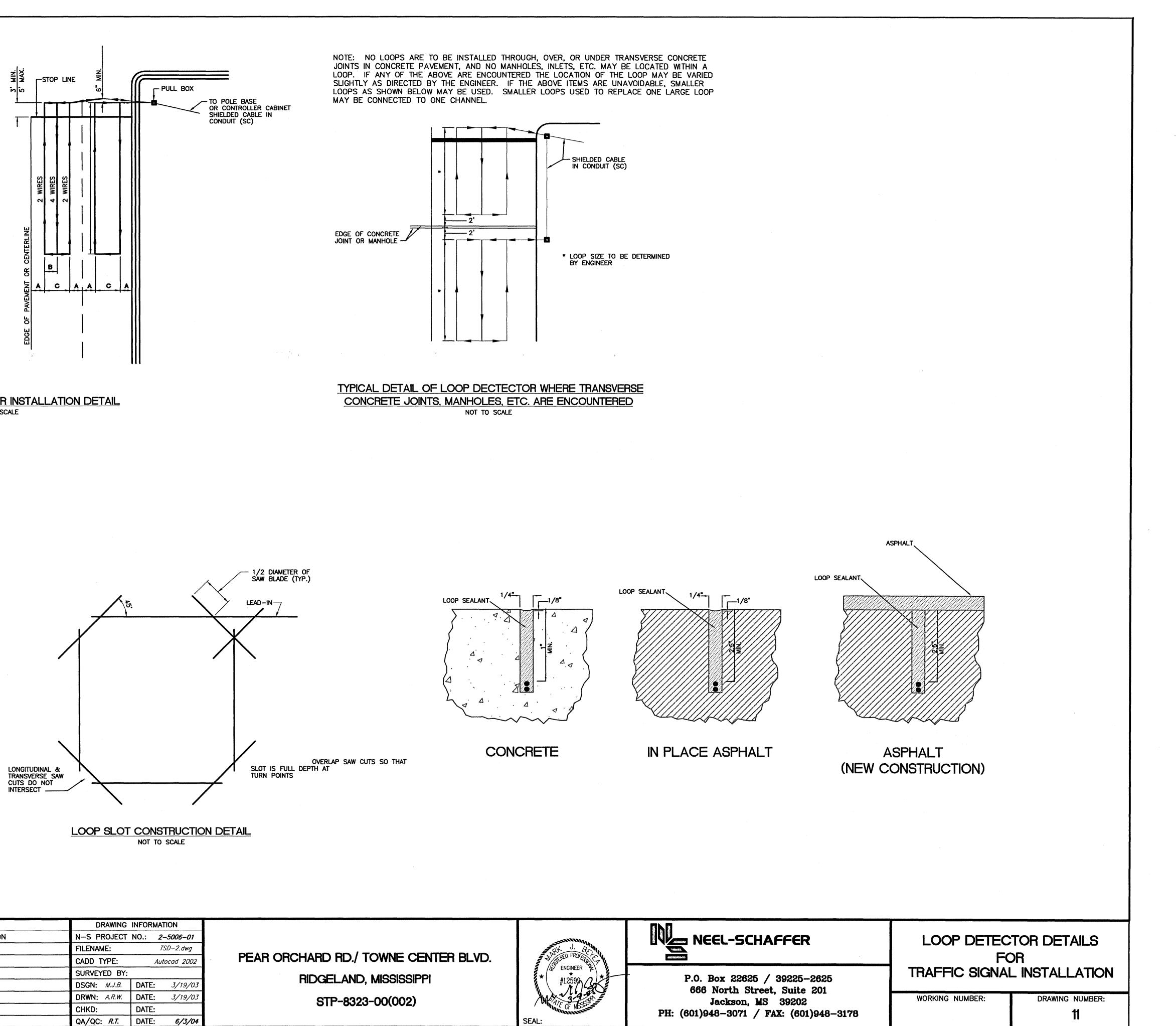
MINIMUM LOOP SEPARATION WHEN NO LANE LINES ARE PRESENT IS 3'

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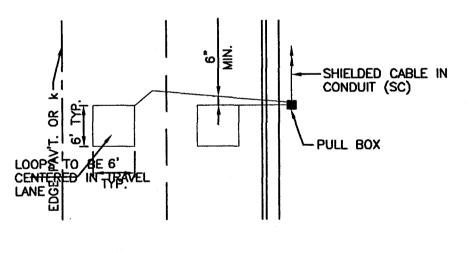
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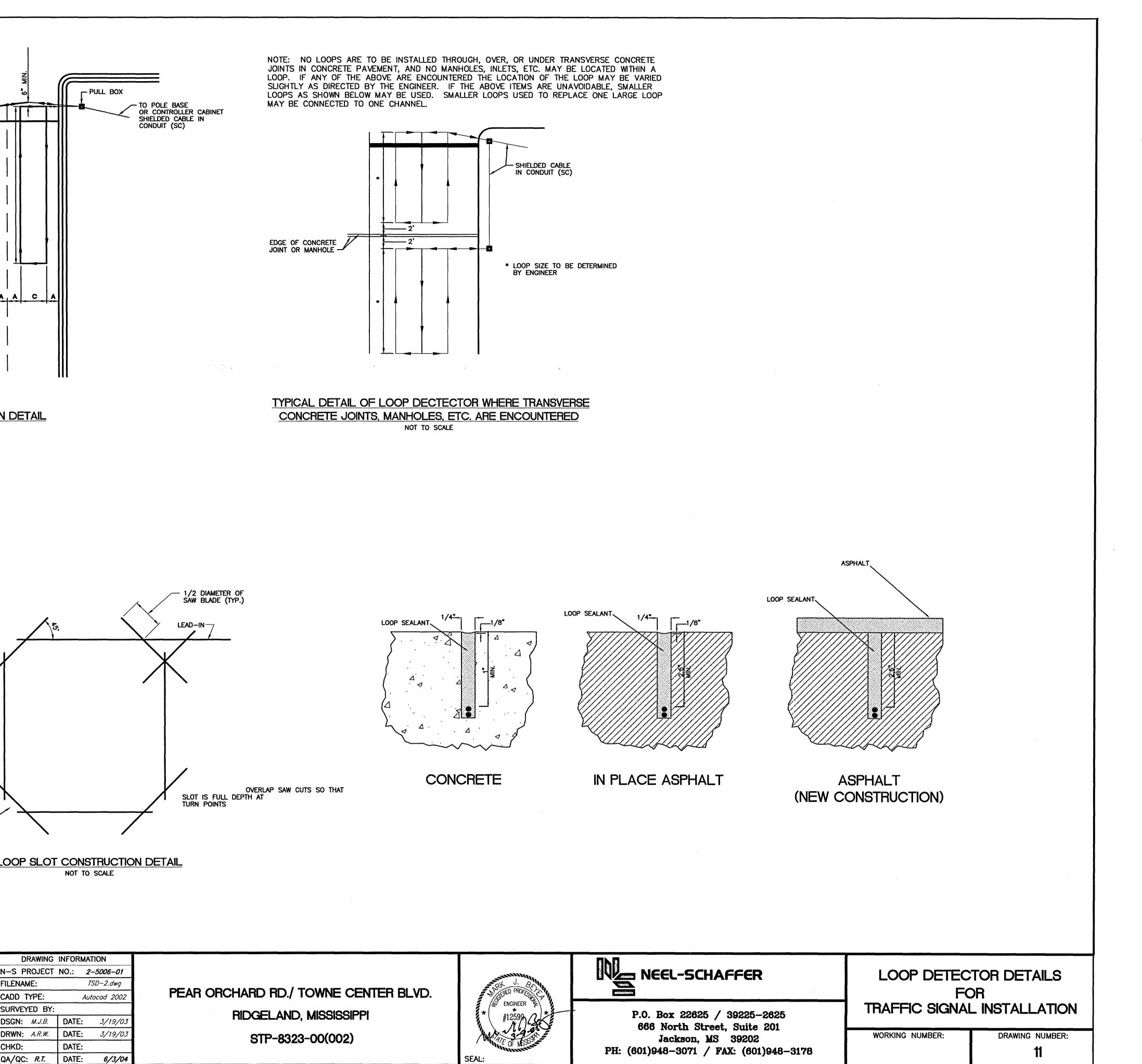


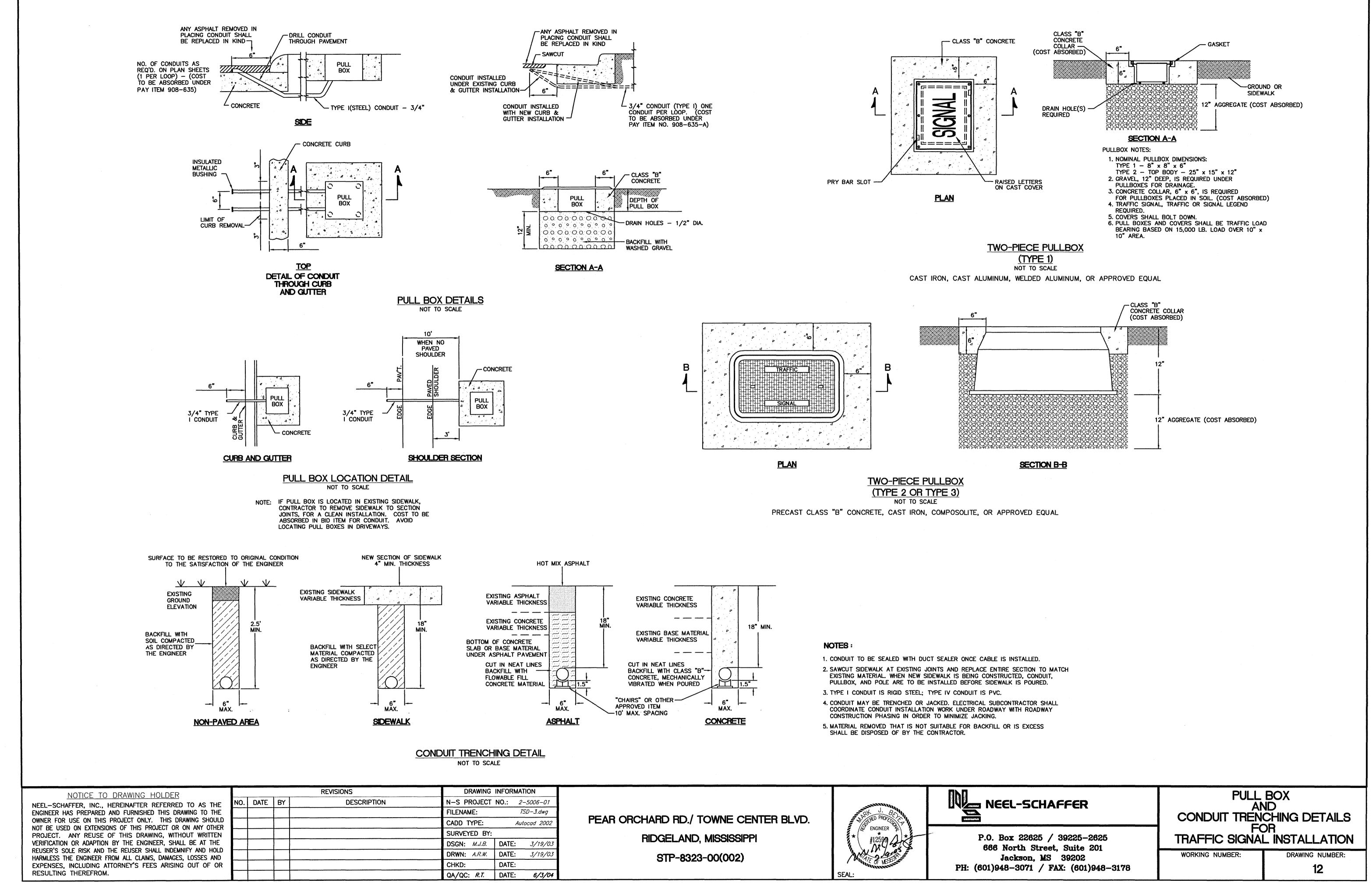
LARGE LOOP DETECTOR INSTALLATION DETAIL NOT TO SCALE



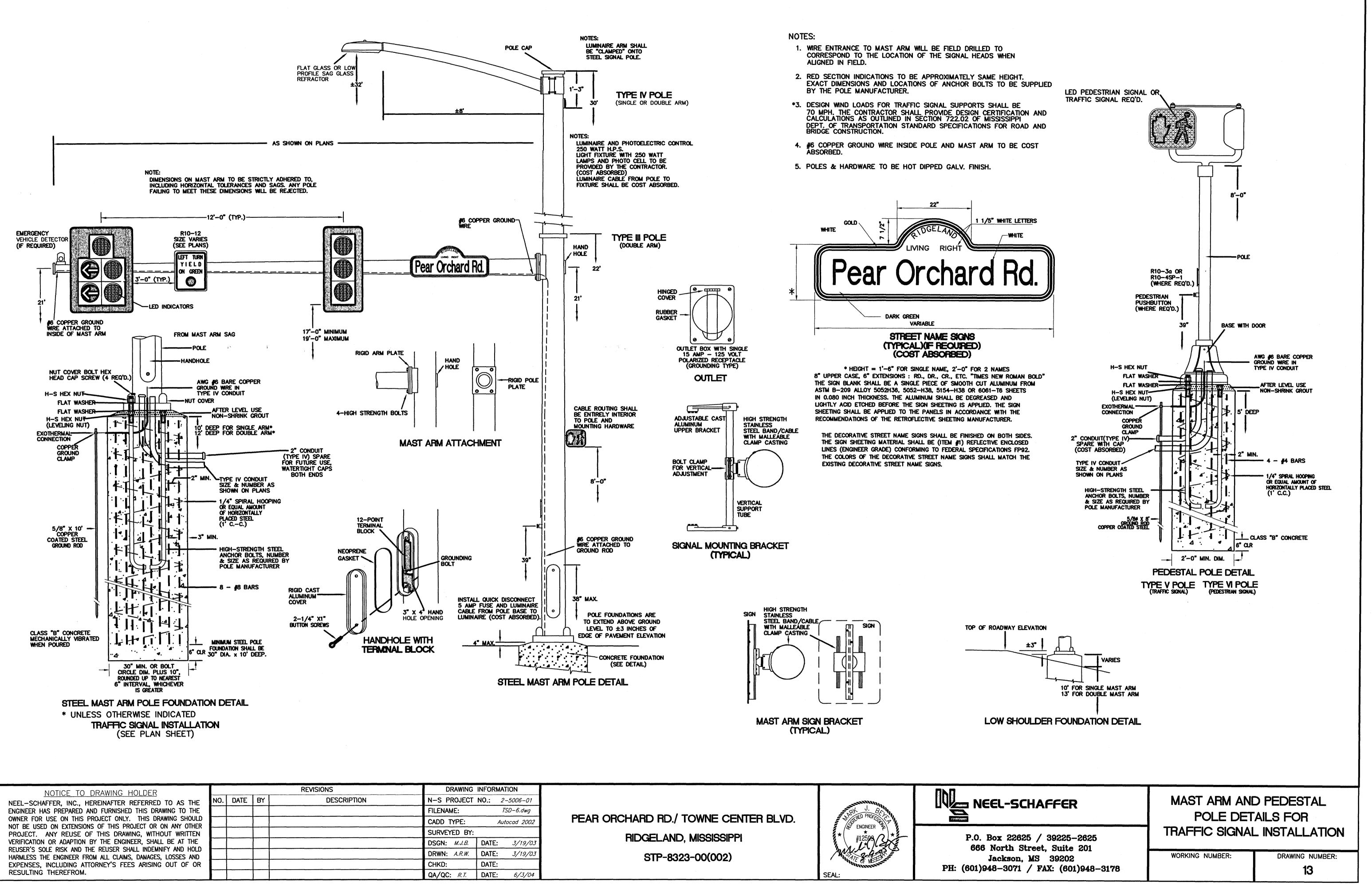
SMALL LOOP DETECTOR INSTALLATION DETAIL NOT TO SCALE

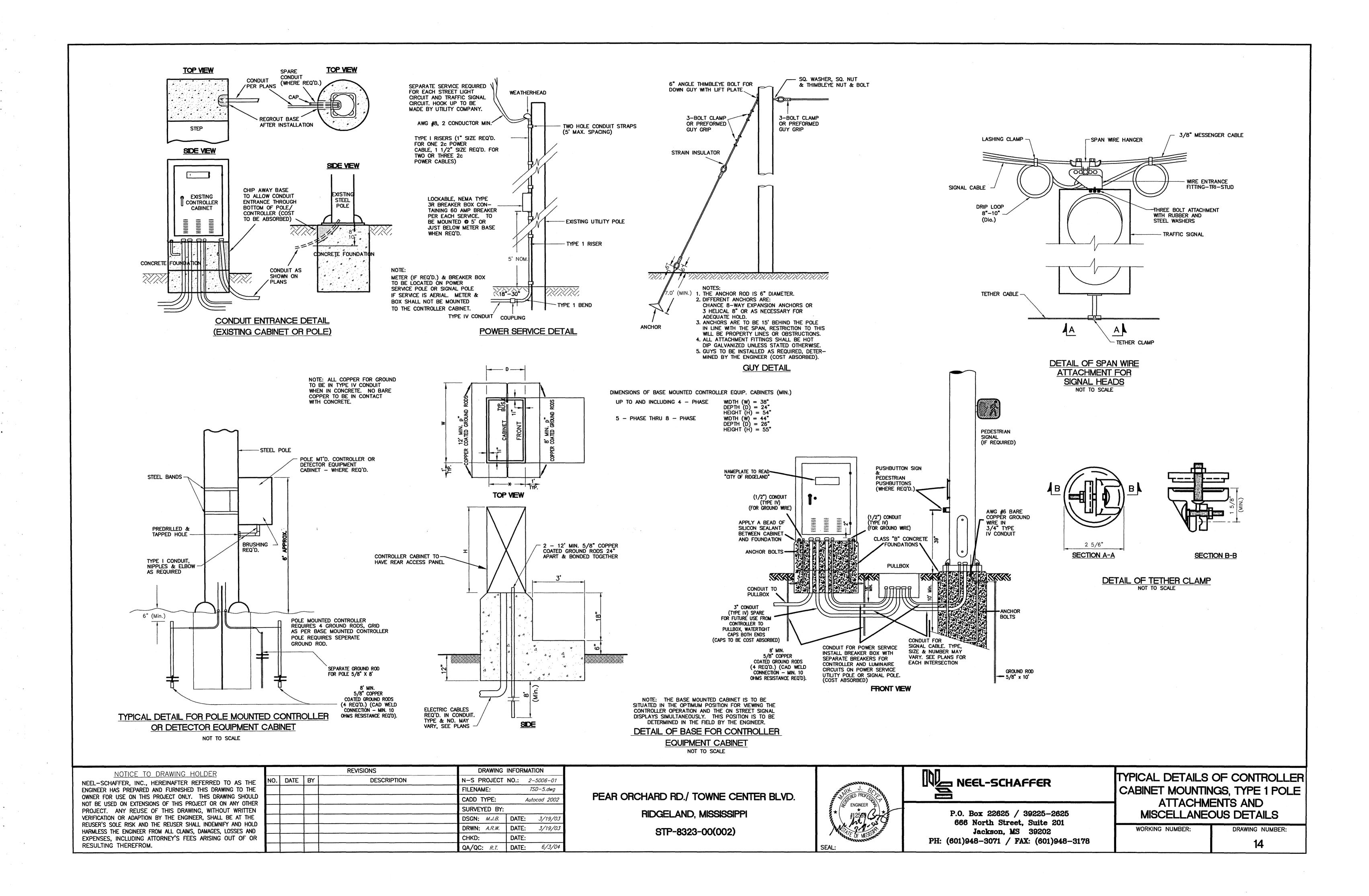
| NOTICE TO DRAWING HOLDER | | REVISIONS | DRAWING INFORMATION | | | |
|--|-------------|-------------|---------------------------------|--------------------------------------|--------------------------|----|
| NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE | NO. DATE BY | DESCRIPTION | N-S PROJECT NO .: 2-5006-01 | | | |
| ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE | | | FILENAME: TSD-2.dwg | | RK J. BEL | |
| OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER | | | CADD TYPE: Autocad 2002 | PEAR ORCHARD RD./ TOWNE CENTER BLVD. | THE FERED PHOLE OF FEREN | |
| PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN | | | SURVEYED BY: | RIDGELAND, MISSISSIPPI | * ENGINEER Z | ŀ |
| VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE | | | DSGN: M.J.B. DATE: 3/19/03 | nidgeland, mississiffi | | |
| REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND | | | DRWN: A.R.W. DATE: 3/19/03 | STP-8323-00(002) | 14 3-9 | |
| EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR | | | CHKD: DATE: | | COF MSD Star | PI |
| RESULTING THEREFROM. | | | QA/QC: <i>R.T.</i> DATE: 6/3/04 | | SEAL: | |

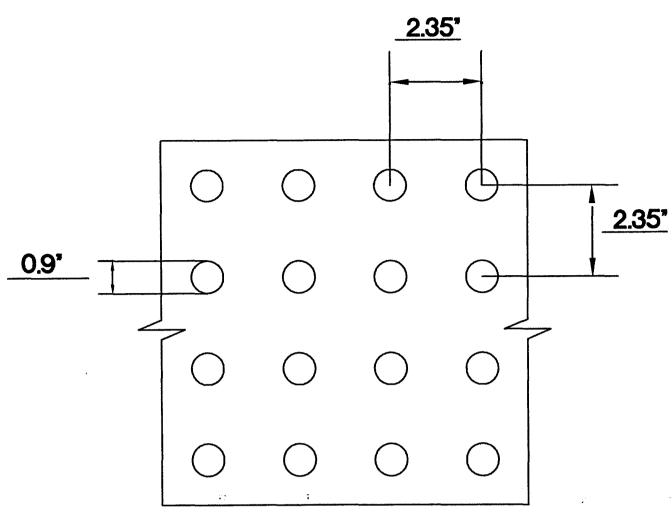




| DRAWING N-S PROJECT | INFORMATIC NO.: 2-5 | DN 5006-01 | | | |
|----------------------------|------------------------|---------------|--------------------------------------|-------------------------|---------|
| FILENAME: | TSD |)—3.dwg | | PIK J. BC | |
| CADD TYPE: | Autoc | ad 2002 | PEAR ORCHARD RD./ TOWNE CENTER BLVD. | ENGINEER E | www.www |
| SURVEYED BY: | | | RIDGELAND, MISSISSIPPI | * (HOFOO () * | |
| DSGN: M.J.B. | DATE: | 3/19/03 | | | |
| DRWN: A.R.W. | DATE: | 3/19/03 | STP-8323-00(002) | AN 9.9. | |
| CHKD: | DATE: | | | A MARCHAN AND A MARCHAN | PH: |
| QA/QC: R.T. | DATE: | 6/3/04 | | SEAL: | |







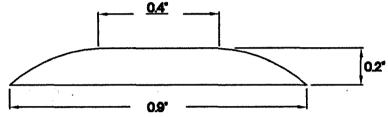
DETAIL-TRUNCATED DOME PATTERN/SPACING (TYPICAL ALL DETECTABLE WARNINGS) N.T.S.

NOTES:

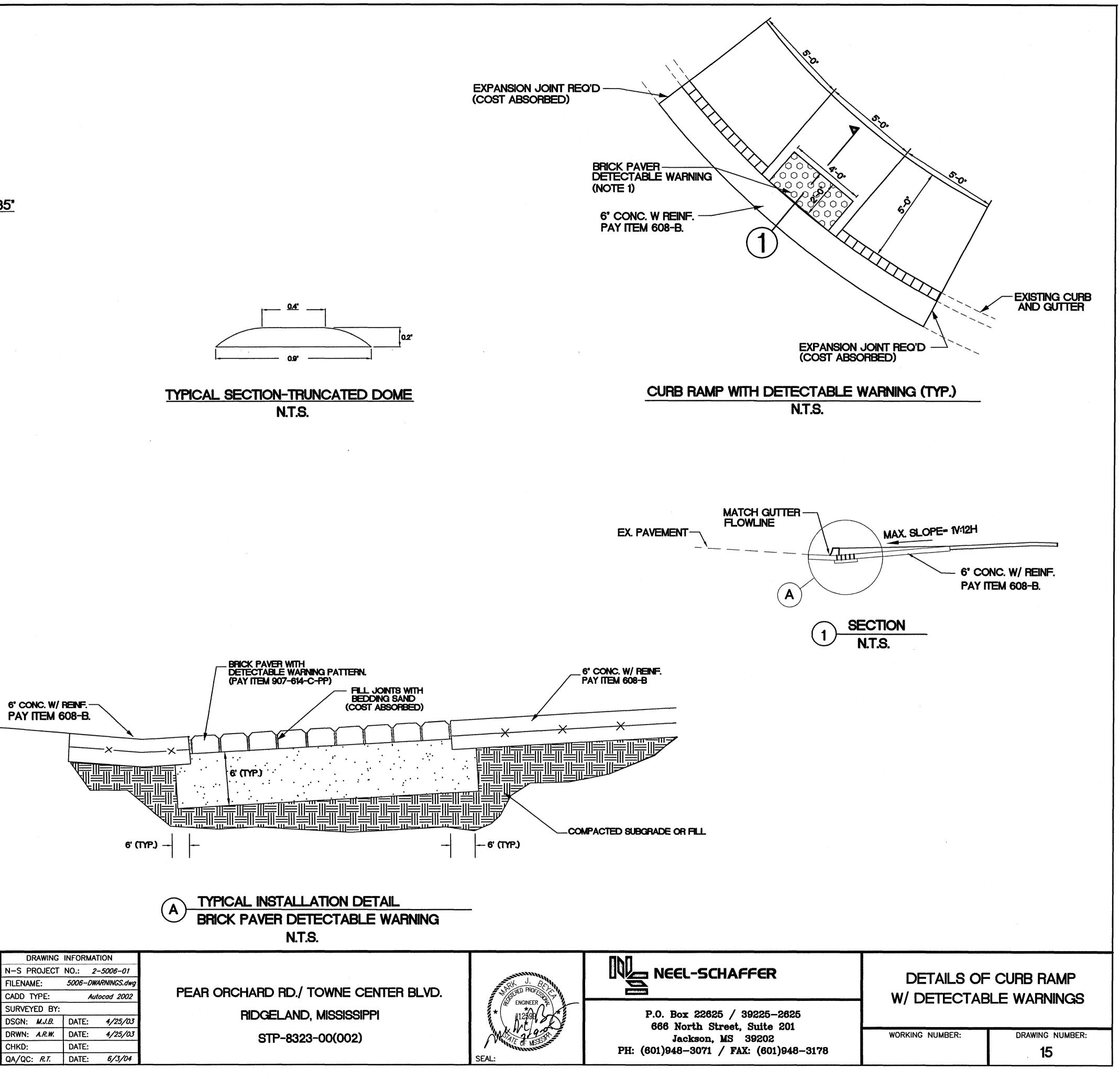
1. BRICK PAVERS FOR DETECTABLE WARNINGS SHALL BE 'PAVESTONE DETECTBLE WARNING PAVERS' OR APPROVED BY EQUAL. PAVER COLOR SHALL BE PAVESTONE 'CHARCOAL' OR APPROVED EQUAL. PAY ITEM 907-614-C 'DETECTABLE WARNINGS (PER PLANS)'

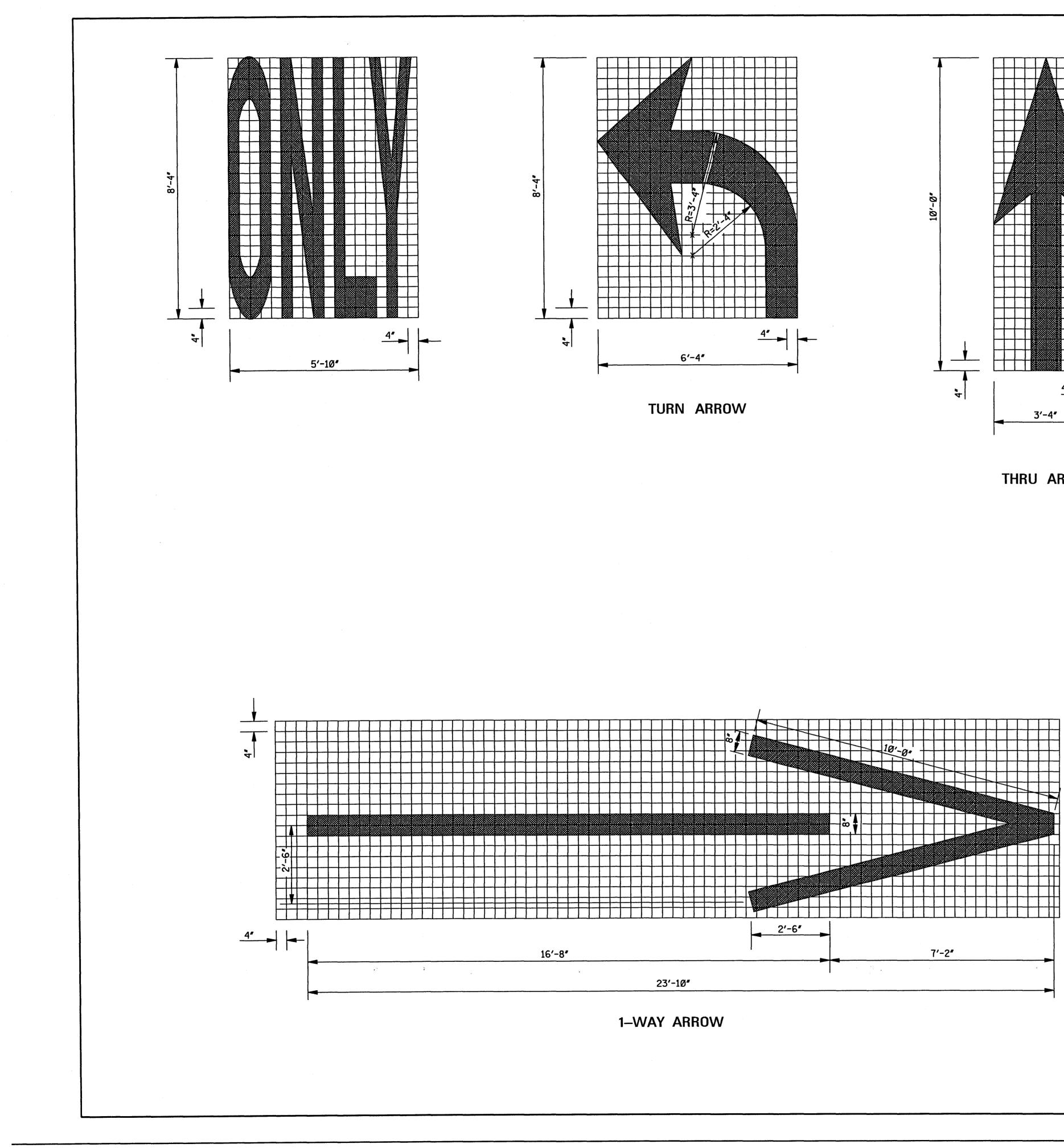
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| NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE | NO. | DATE | BY | DESCRIPTION | N- |
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| VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE | | | | | DS |
| REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD | | | | | DR |
| EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR | | | 1 | | СН |
| RESULTING THEREFROM. | | | | | QA, |
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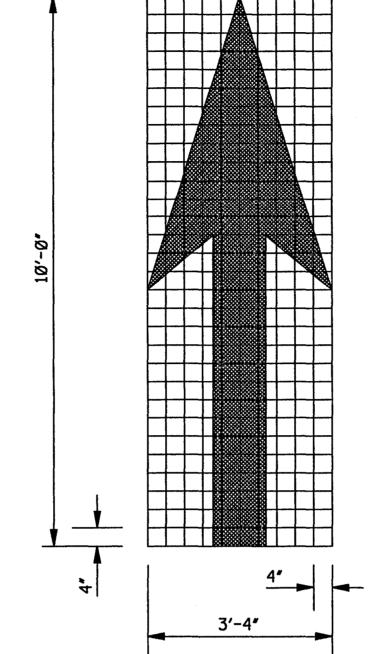
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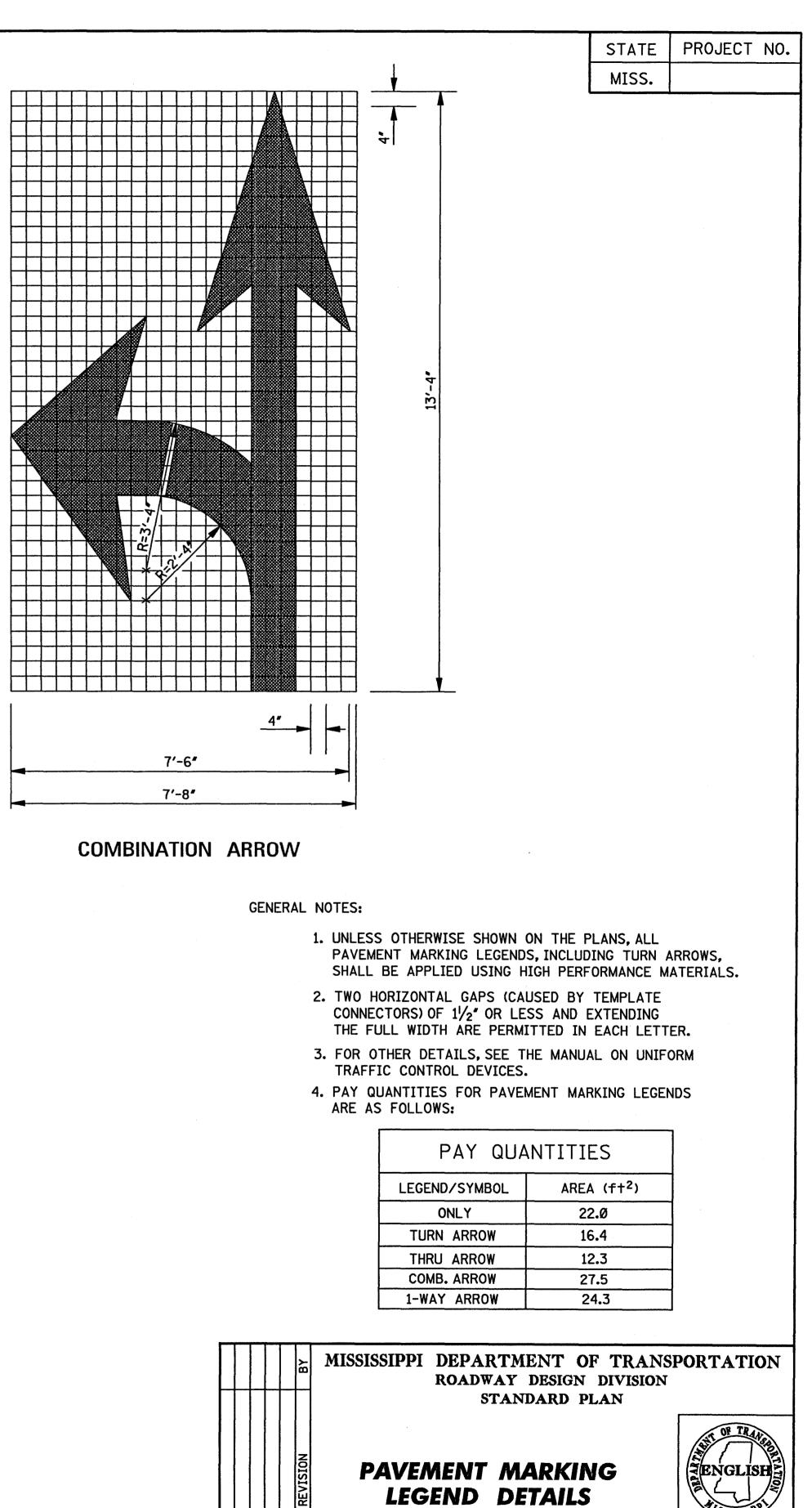
N.T.S.







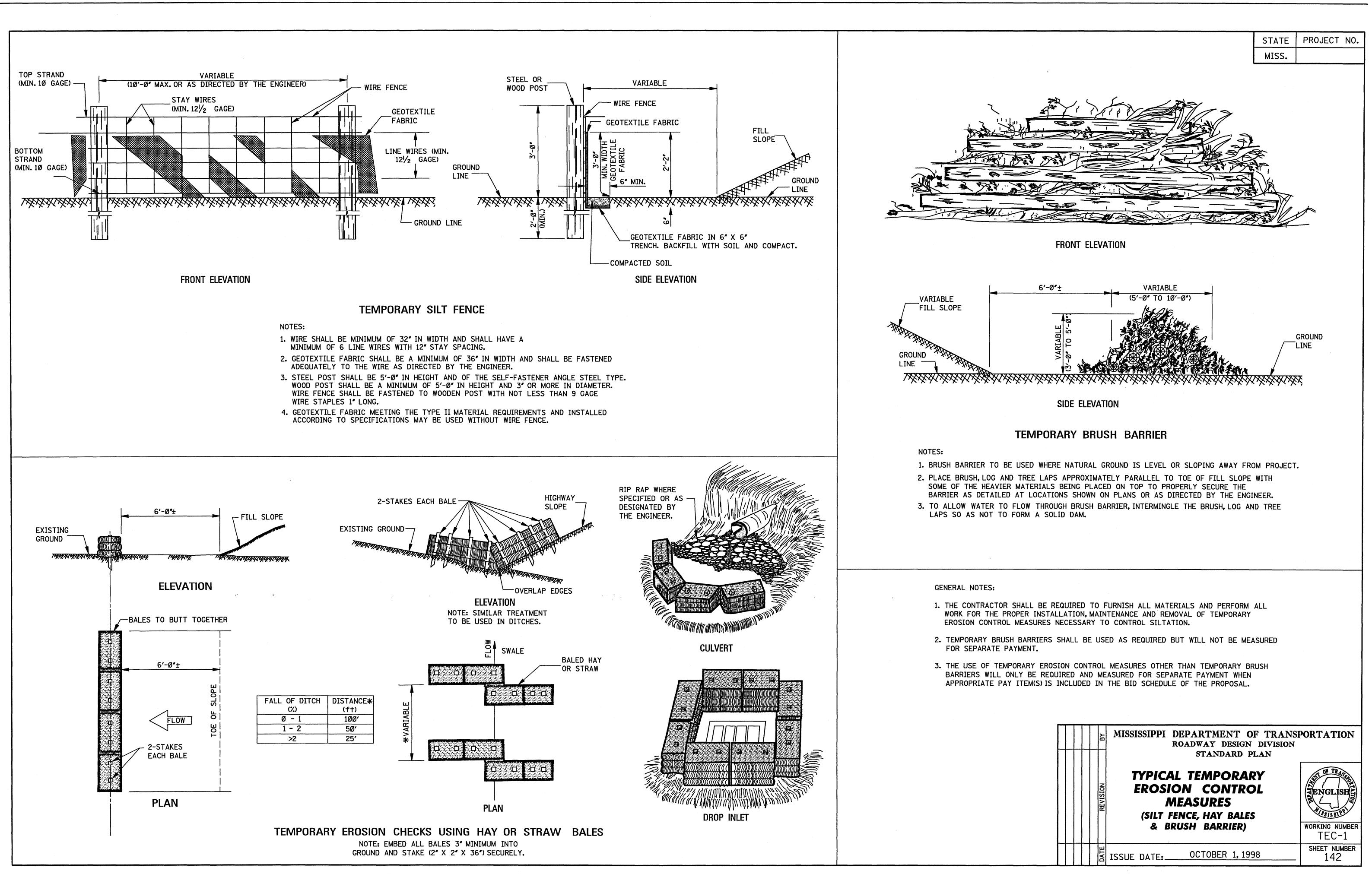
THRU ARROW



TISSISSIPPI WORKING NUMBER PM-6 SHEET NUMBER 125

OCTOBER 1,1998 ISSUE DATE:___

AT

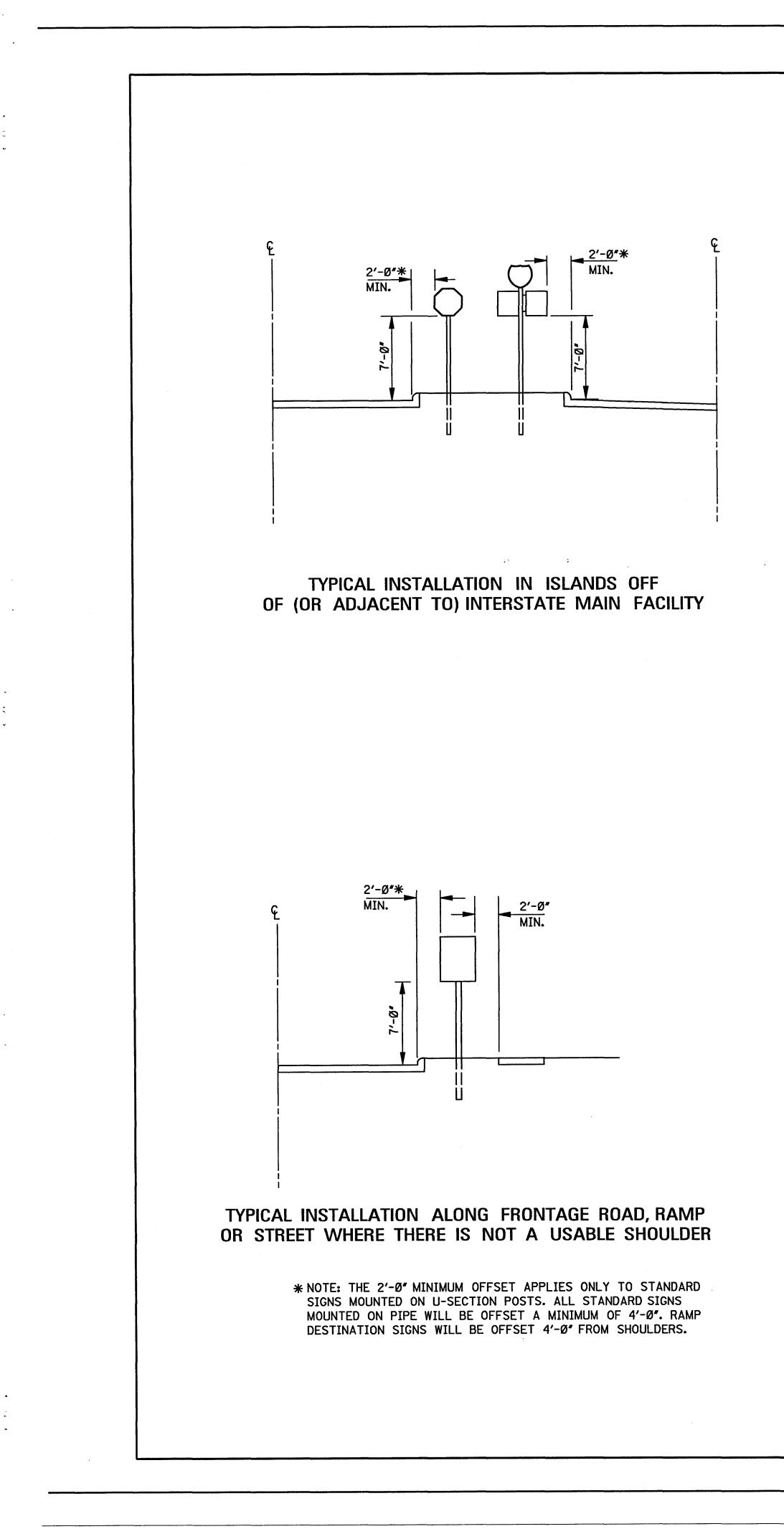


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|--|--|--|--------------------------|-------------------------|---|---------------------------|---|---|---|---------------------------------------|--|
| | | | | | | T | · | · | | MISS. | |
| IGN NUMBER | W1-1L W1-1R | W1-2L W1-2R | W1-3L W1-3R | W1-4L W1-4R | W1-6L W1-6R | W1-7 | W3-1a | W3-2a | W3-3 | W4-1L W4-1R | W4-1Ø1L W4-1Ø1R |
| LUMINUM (6Ø61-T6) IGN BLANK THICKNESS | Ø.125* | Ø.125* | Ø.125″ | Ø.125″ | Ø.125* | Ø.125* | Ø.125* | Ø.125* | Ø.125″ | Ø.125 ″ | Ø.125* |
| EGEND | R=17/8* | R=1 ⁷ / ₈ * | R=1 ⁷ /8* | $R=1\frac{7}{8}$ | $F=1\frac{7}{8}$ | R=1⁷/8* | WHITE RED RED R=2 ¹ /4* | R=2 ¹ /4* | R=2 ¹ /4* | R=11/8* | R=3* |
| ETTER & UMERAL_SERIES | 7/ | 3/ 4 - DL A OK | | 3/ 4 DLACK | 3/ / DLACK | 3/ # DLACK | | 7/ 4 DLACK | 7/ # DLACK | 3/ # PLACK | |
| IDTH OF BORDER OUTSIDE | ₹ ³ / ₄ " BLACK ¹ / ₂ " YELLOW | ¾4″ BLACK 1∕2″ YELLOW | ∛4" BLACK 1∕2" YELLOW | ¾ª BLACK 1⁄2ª YELLOW | 3/4" BLACK 1/2" YELLOW | 3/4" BLACK 1/2" YELLOW | %* BLACK 5%* YELLOW | 7∕8" BLACK 5∕8" YELLOW | 7⁄8″ BLACK 5∕8″ YELLOW | ³ ∕₄″ BLACK 1∕₂″ YELLOW | 1 ¹ /4" BLACK 3/4" YELLOW |
| SIZE (WIDTH X HEIGHT) | 30" X 30" | 30" X 30" | 30" X 30" | 30" X 30" | 48" X 24" | 48" X 24" | 36" X 36" | 36" X 36" | 36" X 36" | 30" X 30" | 48" X 48" |
| COPY BACKGROUND | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW | BLACK YELLOW |
| REFLECTORIZATION | BACKGROUND | BACKGROUND | BACKGROUND | BACKGROUND | BACKGROUND | BACKGROUND | BACKGROUND & SYMBOL | BACKGROUND & SYMBOL | BACKGROUND & "LIGHTS" | BACKGROUND | BACKGROUND |
| NUMBER OF POSTS FOR MOUNTING | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| NUMBER OF HOLES TO BE PUNCHED (3/8" DIA.) | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 4 |
| PUNCHING DISTANCE FROM EACH VERT.EDGE | VERT. CENTER | VERT. CENTER | VERT. CENTER | VERT. CENTER | 6* | 6″ | VERT. CENTER | VERT. CENTER | VERT. CENTER | VERT. CENTER | 14 ¹ /2" FROM VERT. CENTER 14 ¹ /2" FROM |
| PUNCHING DISTANCE FROM TOP EDGE | 15" FROM HORIZ. CENTER | 15" FROM HORIZ. CENTER | 15" FROM HORIZ. CENTER | 15" FROM HORIZ. CENTER | 3"; 21" | 3"; 21" | 18" FROM HORIZ. CENTER | 18" FROM HORIZ. CENTER | 18" FROM HORIZ. CENTER | 15" FROM HORIZ. CENTER | 14 ¹ /2 [°] FROM HORIZ. CENTE |
| SIGN NUMBER | W4-2 | W5-1 | W6-1 | W6-2 | W6-3 | W13-1 | W13-2 | W13-3 | W1Ø-1 W1Ø-1Ø1 | | |
| ALUMINUM (6Ø61-T6) SIGN BLANK THICKNESS | Ø.125″ | Ø.125″ | Ø.125″ | Ø.125* | Ø.125″ | Ø.Ø8Ø* | Ø.125* | Ø.125* | Ø.125" Ø.125" | | |
| LEGEND LETTER & | IDEOGRAM REQUIRED ON INDIVIDUAL SIGNS. | ROAD NARROWS R=2 ¹ /4* | $R=2^{1}/4^{*}$ | $R=2^{l}/4^{*}$ | $\int \int $ | R=1½" 8" SERIES "E" | 16" SERIES "E" | RAMP RAMP N.P.H. 8" SERIES "E' 16" SERIES "E" | | | |
| NUMERAL SERIES WIDTH OF BORDER INSIDE OUTSIDE | | 6" SERIES "D" | 7/8" BLACK | 7/8" BLACK | 3/4" BLACK | 3" SERIES "E" | 11/4" BLACK | 6" SERIES "E' (SEE NOTE) 11/4" BLACK | 8" SERIES "E" 10" SERIES "E" 3/4" BLACK 11/4" BLACK | | |
| SIZE (WIDTH X HEIGHT) | 5%" YELLOW 36" X 36" | 5%" YELLOW 36" X 36" | 5%" YELLOW 36" X 36" | 5%" YELLOW 36" X 36" | 1/2" YELLOW 30" X 30" | 3%" YELLOW 18" X 18" | <u>34" YELLOW</u> 48" X 60" | 3/4" YELLOW 48" X 60" | <u> </u> | | |
| COPY | BLACK | BLACK | BLACK | BLACK | BLACK | BLACK | BLACK | BLACK | BLACK BLACK | | |
| REFLECTORIZATION | YELLOW BACKGROUND | YELLOW BACKGROUND | YELLOW BACKGROUND | YELLOW BACKGROUND | YELLOW BACKGROUND | BACKGROUND | YELLOW BACKGROUND | YELLOW BACKGROUND | YELLOW YELLOW BACKGROUND BACKGROUND | | |
| NUMBER OF POSTS | 1 | 1 | 1 | 1 | 11 | 1 | 1 | 1 | 1 1 | | |
| FOR MOUNTING NUMBER OF HOLES TO BE | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 2 4 | | |
| PUNCHED (3/8" DIA.) PUNCHING DISTANCE FROM | VERT. CENTER | VERT. CENTER | VERT. CENTER | VERT. CENTER | VERT. CENTER | 9" (VERT. CENTER) | 10" | 10" | 15" 15" (VERT. CENTER) | | |
| EACH VERT.EDGE PUNCHING DISTANCE FROM TOP EDGE | 18" FROM HORIZ. CENTER | 18" FROM HORIZ. CENTER | 18" FROM HORIZ. CENTER | 18" FROM HORIZ. CENTER | 15" FROM HORIZ. CENTER | 3"; 15" | 4"; 30"; 56" | 4"; 3Ø"; 56" | 3"; 33" 5"; 43" | | |
| SIGNS SHOWN EXCEPT WHERE 2. SIGNS W13-2 SHALL BE WID 3. THE SPEEDS F | ES LISTED ON THE SUMMARY OF QU ON THIS SHEET WILL BE USED AS E SIGNS ARE MODIFIED FROM THAT AND W13-3- THE STROKE WIDTH OF ENED TO 20% OF THE LETTER OR REQUIRED ON SIGNS W13-1, W13-2 AN L PLAN SHEETS. | THE BASIS FOR FINAL PAYMENT, SHOWN. THE LETTER AND NUMERALS NUMERAL HEIGHT. | , | | | | | REVISION BY | MISSISSIPPI DEPARTMENT ROADWAY DES STANDAR STANDAR STANDAR ROADSIDE SI | IGN DIVISION D PLAN | |

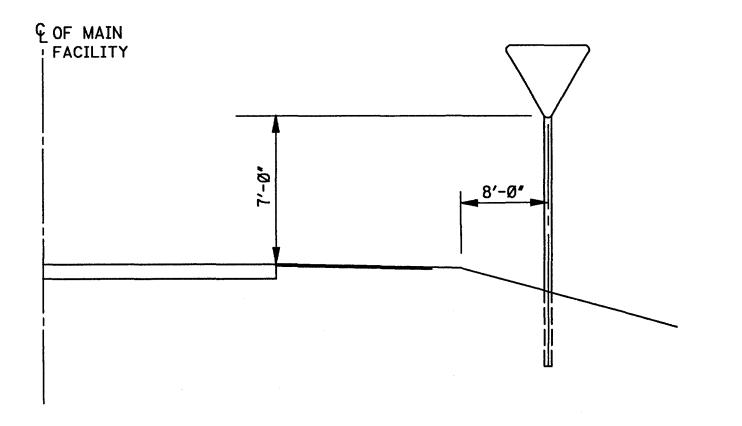
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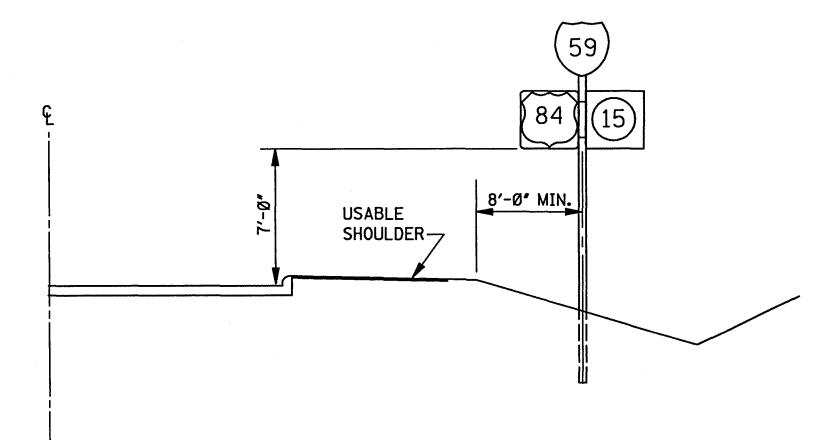
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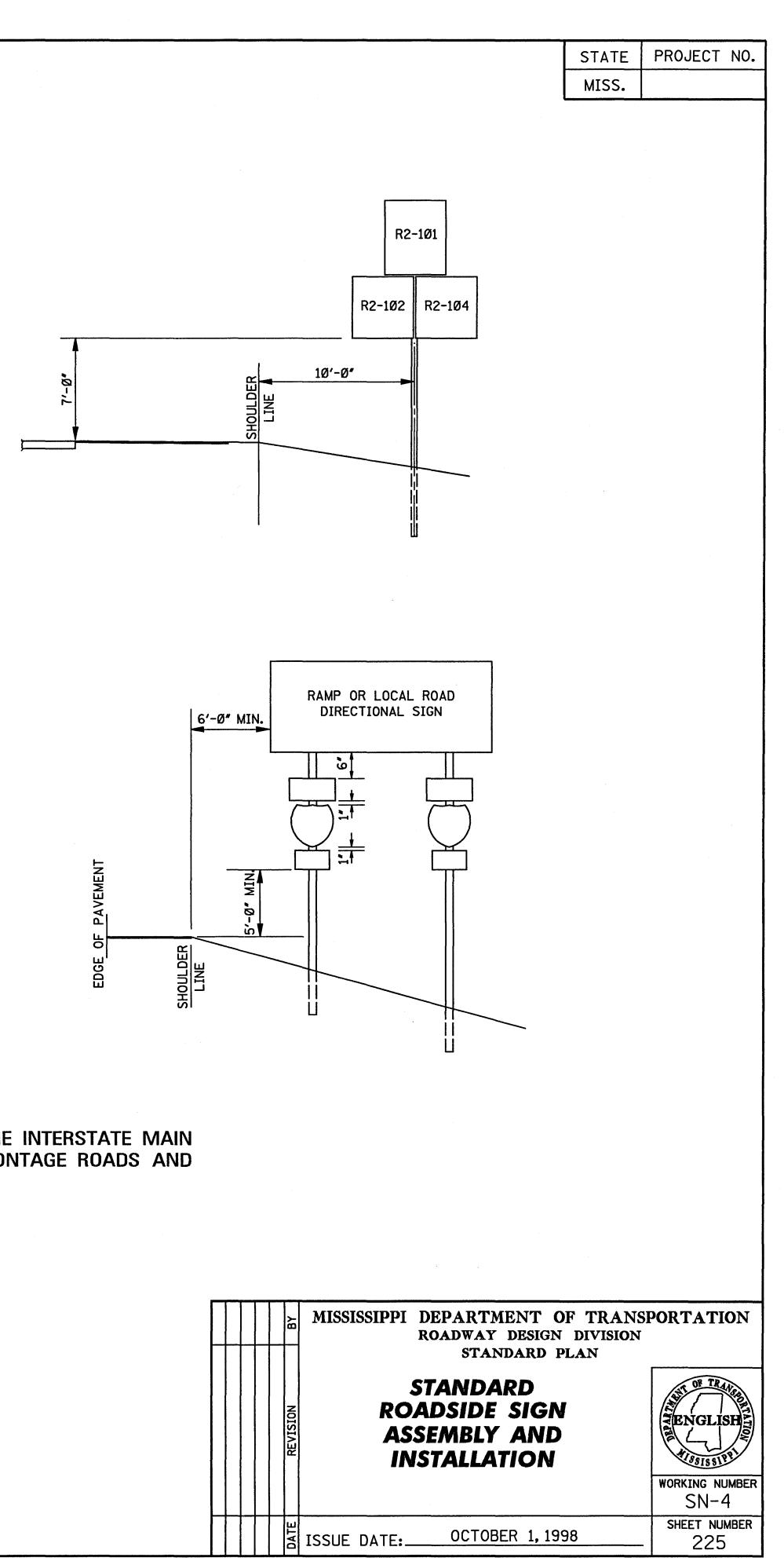


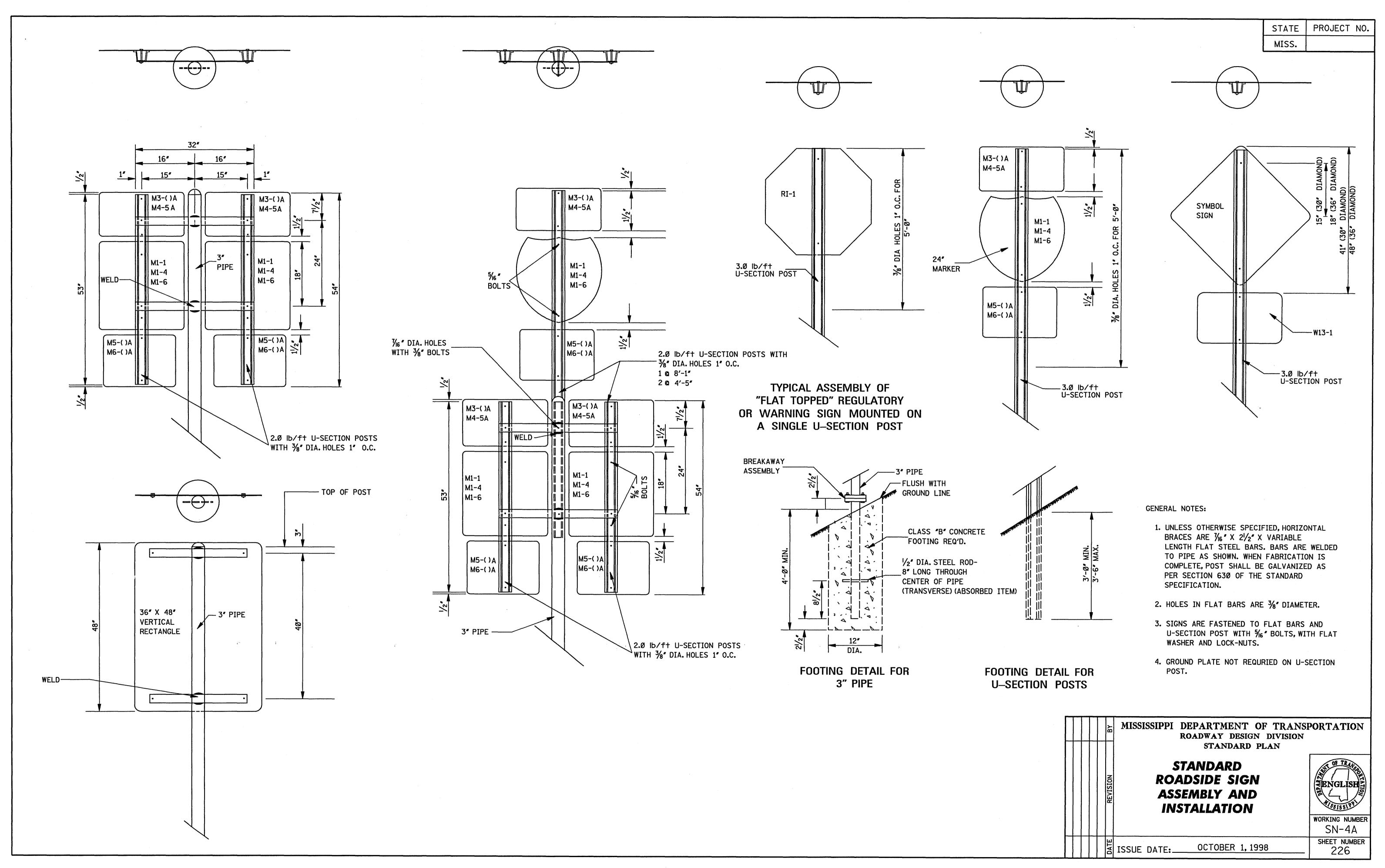
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TYPICAL INSTALLATION ALONG THE INTERSTATE MAIN FACILITY AND ALONG RAMPS, FRONTAGE ROADS AND HIGHWAYS





| | CORRU | GATED STEE | L AND ALU | MINUM PIPE | E (ROUND) | |
|----------|------------------------------------|--|-----------------|---|-----------------|---|
| | | | H-2Ø LOADI | NG | | |
| | | | MAXIMUM FILL | HEIGHT ABOVE | TOP OF PIPE (f1 | -) |
| | | | SI | HEET THICKNESS | (in) | |
| | | 0.064 STEEL | Ø.Ø79 STEEL | Ø.109 STEEL | Ø.138 STEEL | Ø.168 ST |
| PIPE | MINIMUM COVER | | Ø.Ø75 ALUM. | Ø.105 ALUM. | Ø.135 ALUM. | Ø.164 AL |
| DIAMETER | FROM TOP OF | 16 GAGE | 14 GAGE | 12 GAGE | 1Ø GAGE | 8 GAG |
| (11) | PIPE TO TOP OF SUBGRADE (1n) | 2 ² / ₃ " X CORRUGATEI RIVETED, WELDED | STEEL / | 3" X 1" OR 5" CORRUGATED S IVETED, WELDED, I OR BOLTED | TEEL CORRUG | $2\frac{2}{3}$ X $\frac{1}{2}$ GATED ALUN ED OR HEL |
| 12″ | 12" | 84' / - / 45' | 91′ / - / 45′ | - / - / 78' | - / - / 81′ | - / - / |
| 15″ | 12″ | 67'/ - / - | 73' / - / - | - / - / - | / _ / _ | - / - / |
| 18″ | 12″ | 56'/ - /30' | 61' / - / 3Ø' | - / - / 52' | - / - / 54' | - / - / |
| 24" | 12" | 42'/ - /22' | 46' / - / 22' | 59'/ - /39' | - / - / 41' | - / - / |
| 30″ | 12" | 34' / - / 18' | 36' / - / 18' | 47' / - / 31' | - / - / 32' | -/-/ |
| 36″ | 12" | 28' / 48' / 15' | 30' / 60' / 15' | 39' / 78' / 26' | 41' / 89' / 27' | - /101'/ |
| 42″ | 12* | 31' / 41' / - | 43' / 51' / 26' | 46' / 64' / 43' | 48' / 71' / 43' | 50' / 79' / |
| 48″ | 12″ | 27' / 36' / - | 37' / 45' / - | 45' / 57' / 40' | 46' / 61' / 41' | 47' / 66' / |
| 54" | 12" | - / 32' / - | 33' / 40' / - | 43' / 52' / 35' | 44' / 55' / 37' | 45' / 59' / |
| 60″ | 12" | - / 29' / - | - / 36' / - | 43' / 49' / - | 43′ / 51′ / 33′ | 44' / 54' / |
| 66″ | 12" | - / 26′ / - | - / 33' / - | 42' / 47' / - | 43' / 49' / 30' | 43′ / 51′ / |
| 72″ | 12" | - / 24' / - | - / 30' / - | - / 44' / - | 41′ / 47′ / - | 43' / 49' / |
| 78″ | 12" | - / 22' / - | - / 28' / - | - / 41' / - | - / 46' / - | 39' / 47' / |
| 84″ | 12″ | - / 21′ / - | - / 26' / - | - / 38' / - | - / 45′ / - | 35' / 46' / |
| 90″ | 12" | - / 19′ / - | - / 24' / - | - / 35′ / - | - / 43′ / - | - / 45′ / |
| 96″ | 12″ | - / 18′ / - | - / 22' / - | - / 33' / - | - /40'/- | - / 44' / |
| 102″ | 24" | - / 17′ / - | - / 21' / - | - / 31′ / - | - / 38′ / - | - / 42' / |
| 1Ø8″ | 24* | - / - / - | - / 20' / - | - / 30' / - | - / 35′ / - | - / 39′ / |
| 114″ | 24" | - / - / - | - / 19' / - | - / 28' / - | - / 34' / - | - / 37′ / |
| 120″ | 24″ | - / - / - | - / - / - | - / 27' / - | - / 32′ / - | - / 35′ / |

NOTE: THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR $\frac{1}{2}$, WHICHEVER IS GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

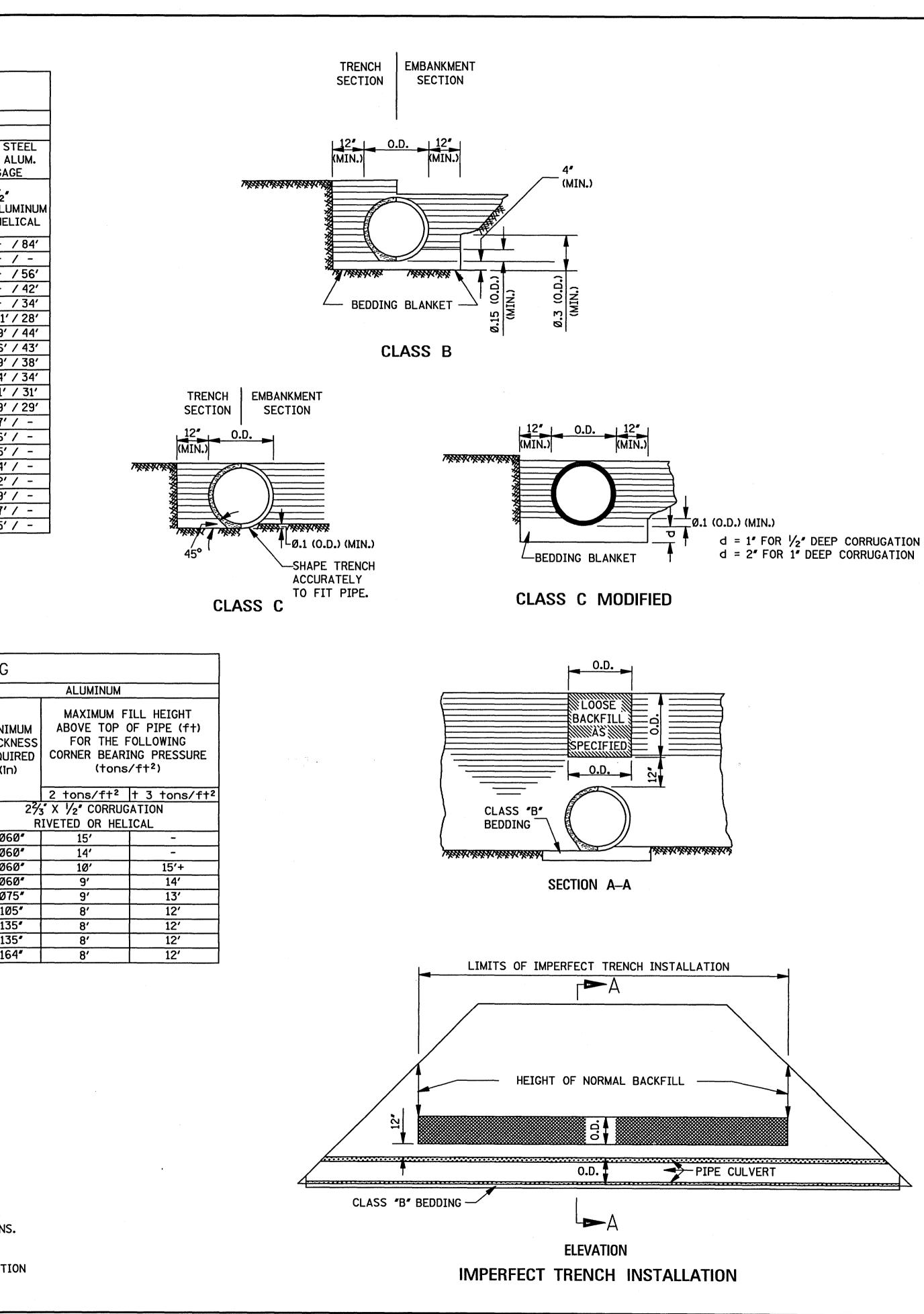
| | | CORRL | JGATED META | AL PIPE | ARCHES | H-2Ø LOA | DING |
|----------------------------|--|-------------------------------------|--|--|--|---|------|
| | | | | | STEEL | | |
| EQUIV. DIAMETER (în) | PIPE DIMENSION (SPAN X RISE) (în) | MINIMUM CORNER RADIUS (în) | MINIMUM COVER FROM TOP OF PIPE TO TOP OF SUBGRADE FOR 2 tons/ft ² (In) | MINIMUM THICKNESS REQUIRED (în) | ABOVE TOP FOR THE CORNER BEAR (ton: | FILL HEIGHT OF PIPE (ft) FOLLOWING ING PRESSURE 5/ft ²) t 3 tons/ft ² | (în |
| | | | | 22/3 | X 1/2" CORRUG | ATION | |
| | | | | | , WELDED OR | | |
| 15″ | 17" X 13" | 3″ | 18″ | Ø.Ø64" | 13' | 15'+ | Ø.Ø6 |
| 18″ | 21" X 15" | 3" | 18″ | Ø.Ø64" | 12′ | 15'+ | Ø.Ø6 |
| 24" | 28" X 20" | 3* | 18″ | Ø.Ø64" | 10' | 15′ | Ø.Ø6 |
| 30" | 35" X 24" | 3* | 18″ | Ø.Ø79" | 9′ | 14' | 0.06 |
| 36″ | 42" X 29" | 31/2" | 18″ | Ø.Ø79 ″ | 9′ | 13' | Ø.Ø7 |
| 42″ | 49" X 33" | 4" | 18″ | Ø.Ø79 " | 8′ | 12' | Ø.1Ø |
| 48* | 57" X 38" | 5″ | 18″ | Ø.1Ø9 * | 8′ | 12' | Ø.13 |
| 54″ | 64" X 43" | 6″ | 18″ | Ø.1Ø9″ | 8′ | 12' | Ø.13 |
| 60" | 71" X 47" | 7" | 18″ | Ø.138″ | 8′ | 12' | Ø.16 |
| 66″ | 77" X 52" | 8″ | 18″ | Ø.168″ | 8′ | 12' | |
| 72″ | 83" X 57" | 9" | 18″ | Ø.168″ | 9′ | 13' | 1 |
| | | | 5″ X | 1" OR 3" X | 1" CORRUGATI | ON | |
| | | | RIV | ETED, WELDE | D OR HELICA | - | |
| 36* | 40" X 31" | 5″ | 18″ | Ø.Ø79* | 12′ | 15'+ | |
| 42″ | 46" X 36" | 6* | 18″ | Ø.Ø79 * | 12′ | 15'+ | |
| 48″ | 53" X 41" | 7″ | 18″ | Ø.Ø79″ | 12' | 15'+ |] |
| 54″ | 6Ø" X 46" | 8″ | 18″ | Ø.Ø79 * | 12′ | 15'+ | |
| 60″ | 66" X 51" | 9″ | 18″ | Ø.Ø79 ″ | 12′ | 15'+ |] |
| 66″ | 73" X 55" | 12″ | 18″ | Ø.Ø79 * | 15′+ | - | |
| 72″ | 81" X 59" | 14″ | 18″ | Ø.Ø79 ″ | 15′ | - | |
| 78″ | 87" X 63" | 14″ | 18″ | Ø.Ø79 * | 14′ | 15'+ | |
| 84″ | 95" X 67" | 16″ | 18″ | Ø.1Ø9″ | 13′ | 15'+ | |
| 90″ | 1Ø3" X 71" | 16″ | 24" | Ø.1Ø9 * | 12′ | 15'+ | |
| 96″ | 112" X 75" | 18″ | 24* | Ø.1Ø9 " | 11′ | 15'+ | |

NOTES:

. .

1. THE AVERAGE INSIDE DIAMETER SHALL NOT VARY MORE THAN ONE (1) PERCENT OR $\frac{1}{2}$, whichever is GREATER, FROM THE NOMINAL DIAMETER WHEN MEASURED ON THE INSIDE CREST OF THE CORRUGATIONS. (AASHTO M 36M/M 36 & AASHTO M 196M/M 196).

+ 2. BEARING PRESSURES EXCEEDING 2 tons/ft² REQUIRED FOR GIVEN FILL HEIGHT SHALL HAVE FOUNDATION MATERIALS INVESTIGATED TO DETERMINE BEARING CAPACITY.



STATE MISS.

PROJECT NO.

| | XIMUM HEI REINFORCED | | |
|---------|-------------------------|----------------------|----------------------|
| CLASS | TYPE OF | MAXIMUM | COVER (ft) |
| OF PIPE | BACKFILL | CLASS "C" BEDDING | CLASS "B" BEDDING |
| III | NORMAL | 16′ | |
| IV | NORMAL | 23′ | 28′ |
| V | NORMAL | 30' | 36' |
| IV | IMPERFECT | - | 9Øʻ |
| V | IMPERFECT | | 115′ |

NOTE: CLASS OF PIPE AND BEDDING TO BE CONSISTENT THROUGHOUT THE PIPE LENGTH.

| | | | | VER CLASS 2 TE PIPE, |
|------|-------|----------------------|-------------------------|-------------------------------|
| | ERFOR | ATED AN R UNDE | ND/OR | PLAIN, |
| PIPE | B | MAXIMU EDDING CLA | M COVER (ASS "C"/CL | |
| SIZE | | TRENCH | | PROJECTING |
| (in) | Bd | SAND & | DAMP | POSITIVE |
| | (in) | GRAVEL | CLAY | p= Ø.7; R _{sd} = Ø.7 |
| 4″ | 2.00' | * | * | 34'/42' |
| 6* | 2.00' | * | * | 25'/30' |
| 8″ | 2.25′ | * | 16′/ * | 19'/24' |
| 10" | 2.50' | * | 12'/20' | 16'/19' |
| 12″ | 2.75′ | * | 12'/18' | 14'/17' |

NOTES:

*1. INDICATES NO LIMIT OF FILL HEIGHT (130 lbs/ft^3).

2. TRENCH WIDTH (Bd) NO GREATER THAN 16" PLUS O.D.

3. FACTOR OF SAFETY IS 1.25 ON MINIMUM ULTIMATE STRENGTH.

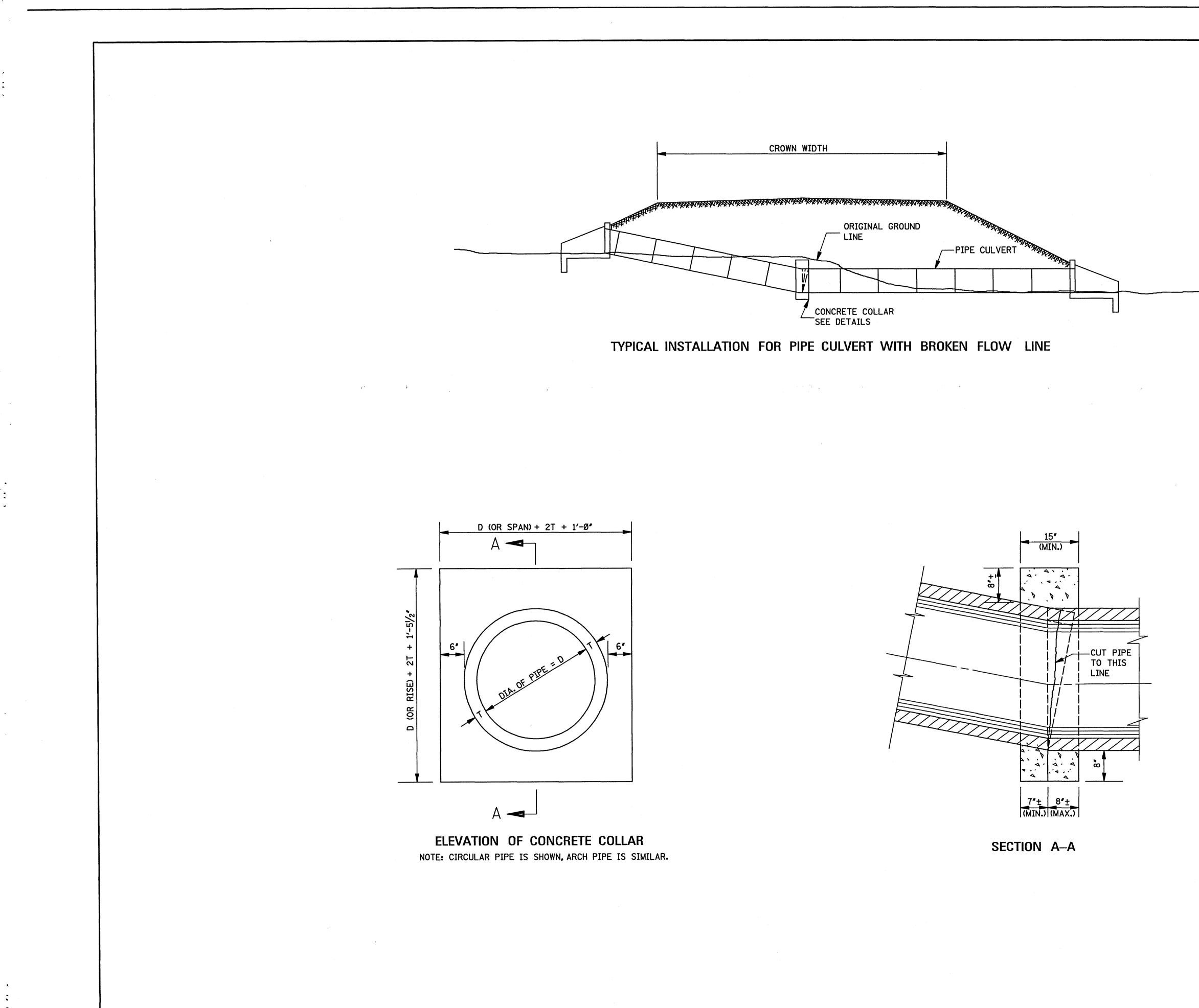
4. MINIMUM COVER FOR HIGHWAY LOADS IS 18".

5. PERFORATED PIPE SHALL BE TYPE 1.

GENERAL NOTES:

- 1. MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.
- 2. UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES.
- 3. WHERE PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTORS EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.

| - | - | - | - | | |
|-------|---|---|----------|--|------------------------|
| | | | BΥ | MISSISSIPPI DEPARTMENT OF TRANSI ROADWAY DESIGN DIVISION STANDARD PLAN | PORTATION |
| | | | REVISION | PIPE CULVERT INSTALLATION | ENGLISH HISSISSIPPI |
| | | | | | working number PI-1 |
| | | | DATE | ISSUE DATE: OCTOBER 1, 1998 | sheet number 300 |



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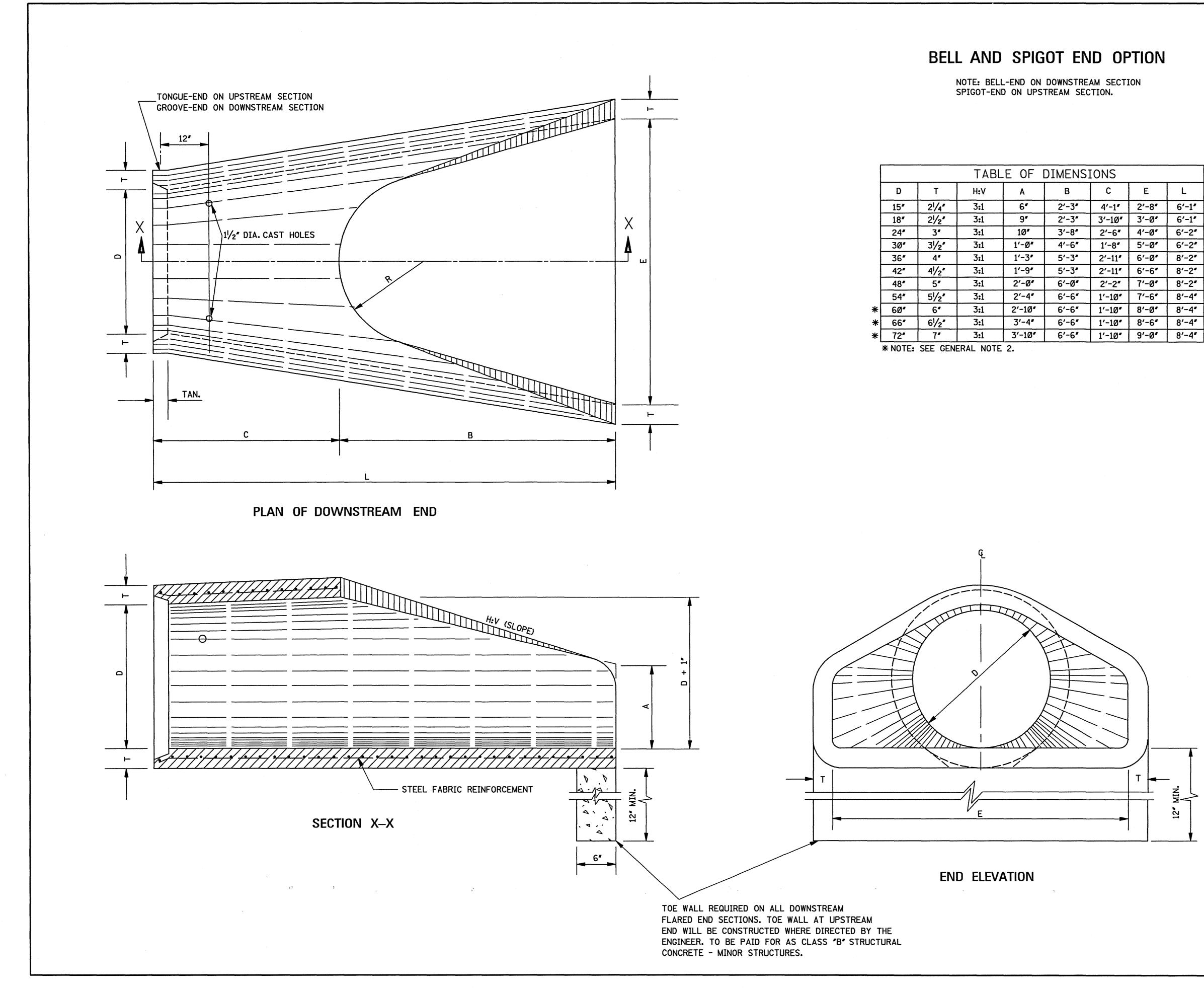
STATE PROJECT NO. MISS.

GENERAL NOTE:

1. THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

| 0.01 | | | VEDÍC |
|--------------|--|--------------|--|
| CUN | ICRETE COLLAR F | OR PIPE CU | LVERIS |
| CIR | CULAR PIPE | AR | CH PIPE |
| DIA. OF PIPE | CLASS "B" CONCRETE (yd ³) | SIZE OF PIPE | CLASS "B" CONCRETE (yd ³) |
| 12" | 0.240 | | |
| 15″ | Ø.26Ø | 18 × 11 | Ø . 28Ø |
| 18″ | Ø.32Ø | 22 x 13 | Ø.31Ø |
| 24″ | Ø.41Ø | 29 × 18 | Ø.41Ø |
| 30″ | Ø.51Ø | 36 x 23 | Ø . 49Ø |
| 36″ | Ø.62Ø | 44 × 27 | 0.600 |
| 42″ | Ø.73Ø | 51 × 31 | Ø.69Ø |
| 48 ″ | Ø.85Ø | 58 x 36 | Ø.82Ø |
| 54″ | Ø.98Ø | 65 x 4Ø | Ø . 92Ø |
| 60″ | 1.11Ø | 73 x 45 | 1.070 |
| 66″ | 1.248 | 88 × 54 | 1.366 |
| 72″ | 1.393 | | |

| | | | I BY | MISSISSIPPI DEPARTMENT OF TRANSF ROADWAY DESIGN DIVISION STANDARD PLAN | PORTATION |
|--|--|----------|----------|--|------------------------|
| | | BEVIETON | KEVISIUN | CONCRETE PIPE COLLAR | TENGLISH TISSISSIPH |
| | | | | | WORKING NUMBER PC-1 |
| | | ⊢ I | DAIE | ISSUE DATE: OCTOBER 1, 1998 | sheet number 3Ø1 |





| | | TAB | LE OF I | DIMENS | IONS | | |
|-----|--------------------|-----|---------|---------------|--------|---------------|-------|
| D | Т | H:V | A | В | С | E | L |
| 15" | 2 ¹ /4" | 3:1 | 6" | 2'-3" | 4'-1" | 2'-8" | 6'-1" |
| 18″ | 21/2" | 3:1 | 9″ | 2'-3" | 3'-10" | 3'-0" | 6'-1" |
| 24″ | 3″ | 3:1 | 10" | 3'-8" | 2'-6" | 4'-Ø " | 6'-2' |
| 30″ | 31/2" | 3:1 | 1'-Ø" | 4'-6" | 1'-8" | 5'-0" | 6'-2' |
| 36″ | 4″ | 3:1 | 1'-3" | 5′-3 ″ | 2'-11" | 6'-Ø " | 8'-2' |
| 42″ | 41/2" | 3:1 | 1'-9" | 5'-3" | 2'-11" | 6'-6" | 8'-2' |
| 48″ | 5″ | 3:1 | 2'-Ø" | 6'-Ø " | 2'-2" | 7'-Ø " | 8'-2' |
| 54″ | 51/2" | 3:1 | 2'-4" | 6'-6" | 1'-10" | 7′-6″ | 8'-4' |
| 60″ | 6″ | 3:1 | 2'-10" | 6'-6" | 1'-1Ø" | 8'-Ø " | 8'-4' |
| 66″ | 61/2" | 3:1 | 3'-4" | 6'-6" | 1'-10" | 8'-6" | 8'-4' |
| 72″ | 7" | 3:1 | 3'-10" | 6'-6" | 1'-10" | 9'-0" | 8'-4' |

| STATE | PROJECT NO. |
|-------|-------------|
| MISS. | |

| TOE WALL CONC.QUANTITY (yd ³) |
|---|
| Ø.Ø56 |
| Ø.Ø63 |
| Ø.Ø83 |
| Ø . 1Ø2 |
| Ø . 123 |
| Ø . 134 |
| Ø . 145 |
| Ø . 156 |
| Ø . 167 |
| Ø . 177 |
| Ø . 188 |

GENERAL NOTES:

- 1. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
- 2. $2 1\frac{1}{2}$ DIA. CAST HOLES REQUIRED AS SHOWN TO ACCOMMODATE 2 1" DIA. TIE BOLTS, USED IN TIEING SECTION TO PIPE CULVERT.
- 3. LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
- 4. FLARED END SECTIONS ARE NOT TO BE USED INSIDE THE CLEAR ZONE.
- 5. ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

| MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN Image: Constraint of the second section FOR CONCRETE PIPE Image: Constraint of the second section For Constraint of the second se | | | | | |
|--|--|--|----|-----------------------------|-----------|
| FLARED END SECTION FOR CONCRETE PIPE WORKING NUMBER FE-1 SHEET NUMBER | | | ВҮ | ROADWAY DESIGN DIVISION | PORTATION |
| FE-1 SHEET NUMBER | | | S | | ENGLISH |
| | | | | | |
| | | | | ISSUE DATE: OCTOBER 1, 1998 | |