MADISON COUNTY and CITY OF RIDGELAND TRAFFIC SIGNAL INSTALLATION

U.S. HWY. 51 AT RICE ROAD

BOARD OF SUPERVISORS

| LOUISÉ N. SPIVEYDISTRICT I |
|----------------------------------|
| LUTHER WALDRUP DISTRICT II |
| DAVED H. RICHARDSON DISTRICT III |
| KARL M. BANKS DISTRICT IV |
| J. L. McCULLOUGH DISTRICT V |
| STEVE DUNCANCHANCERY CLERK |

MAYOR

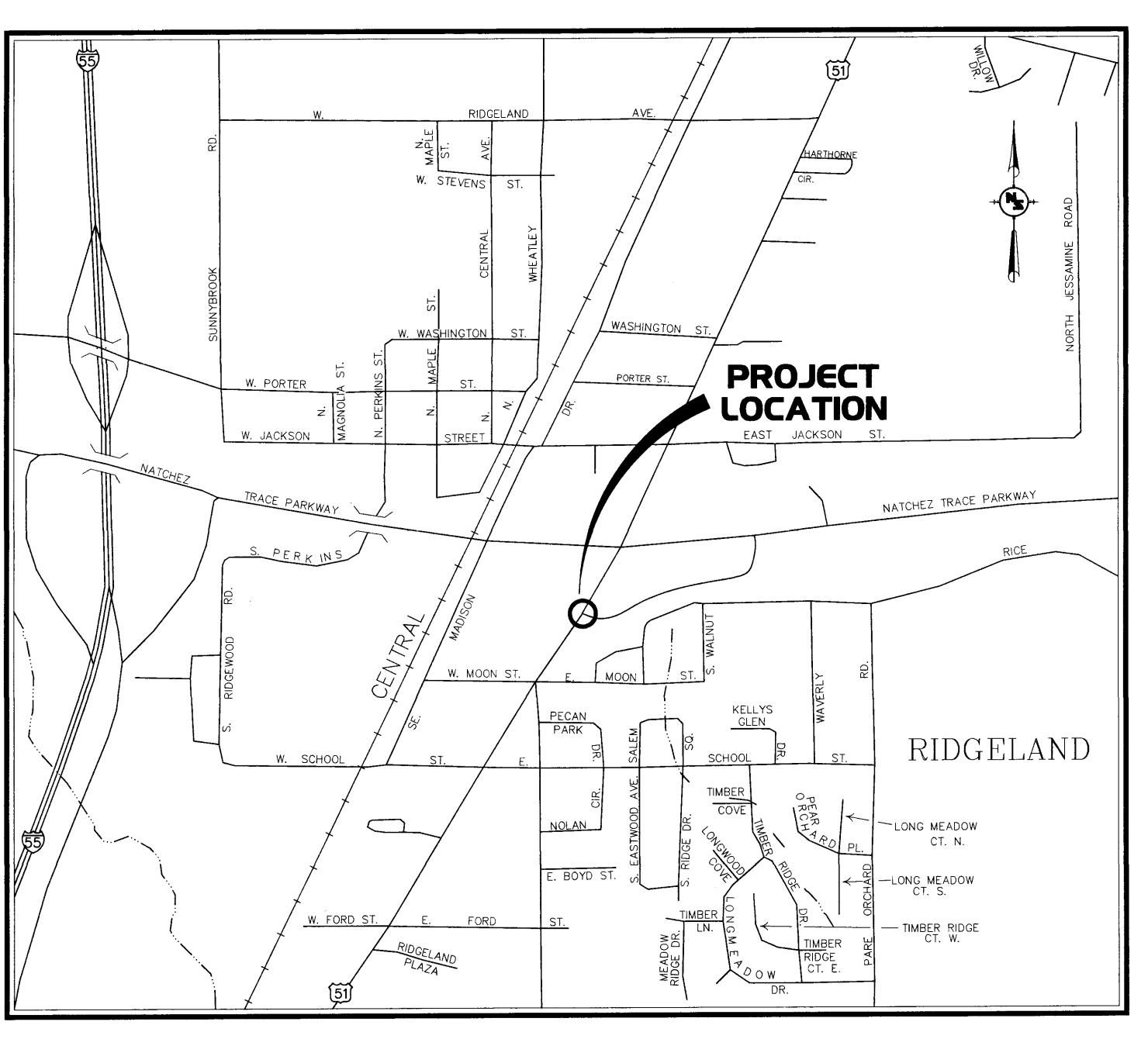
Gene McGee

ALDERMEN

| ANN HURD | WARD I |
|----------------|----------|
| LISA WALTERS | WARD 2 |
| CAROLE DAVIS | WARD 3 |
| LARRY ROBERTS | WARD 4 |
| SCOTT JONES | WARD 5 |
| LINDA TRUNZLER | WARD 6 |
| GERALD STEEN | AT-LARGE |

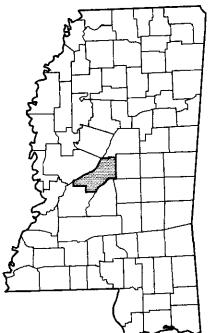
UTILITIES

A. T. & T.
BELLSOUTH TELEPHONE
ENTERGY CORP.
MISSISSIPPI VALLEY GAS
KOCHE-GATEWAY GAS
CITY OF RIDGELAND
CAPITOL CABLEVISION



VICINITY MAD NOT TO SCALE

LOCATION MAD





Madison County



PUBLIC WORKS DEPT

APPROVALS

Sam Vinson, P.E. Director

Department of Public Works

City of Ridgeland, Mississippi

Approved ______ Date____



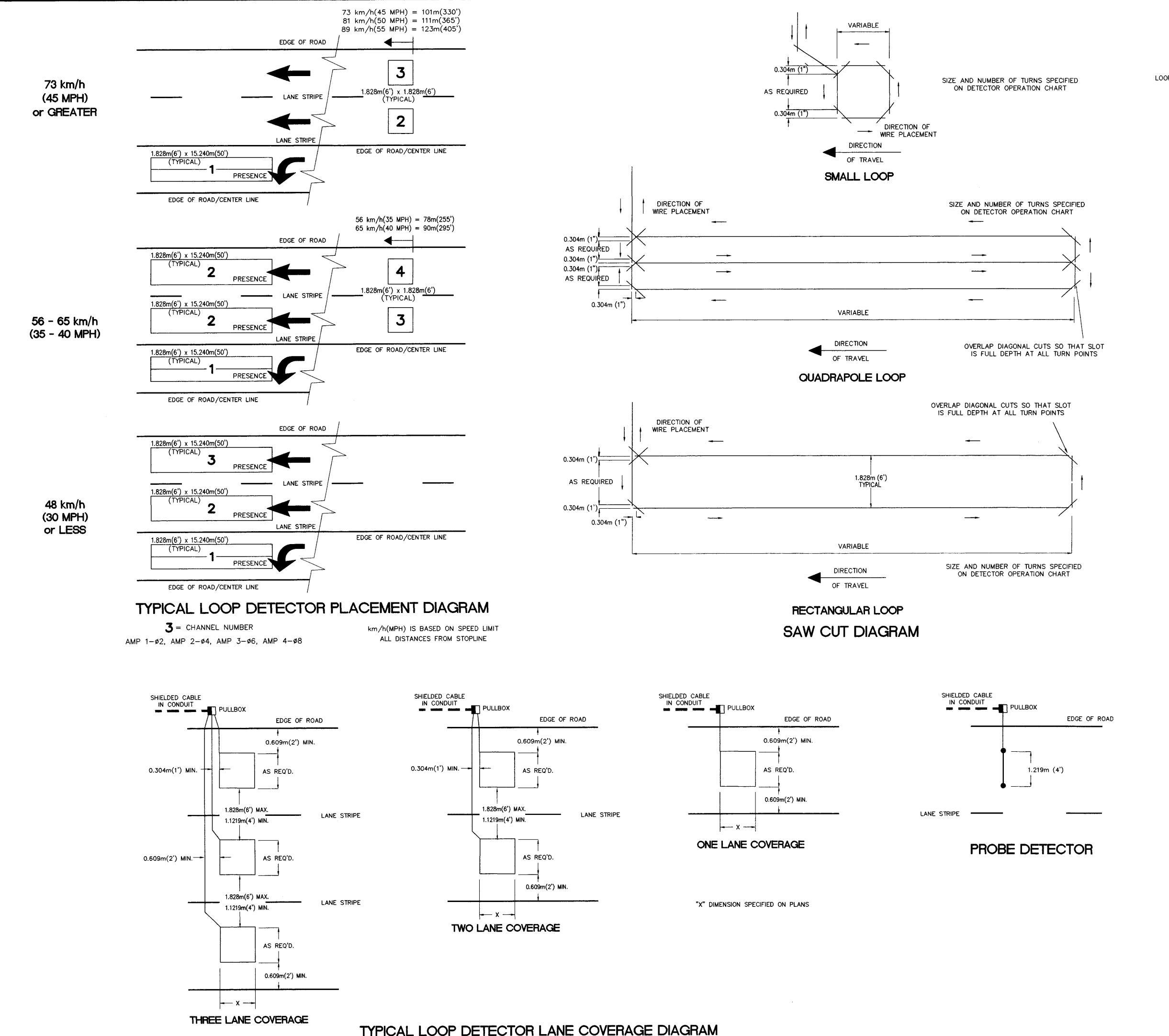
NEEL-SCHAFFER, INC. ENGINEERS • PLANNERS Jackson, Mississippi



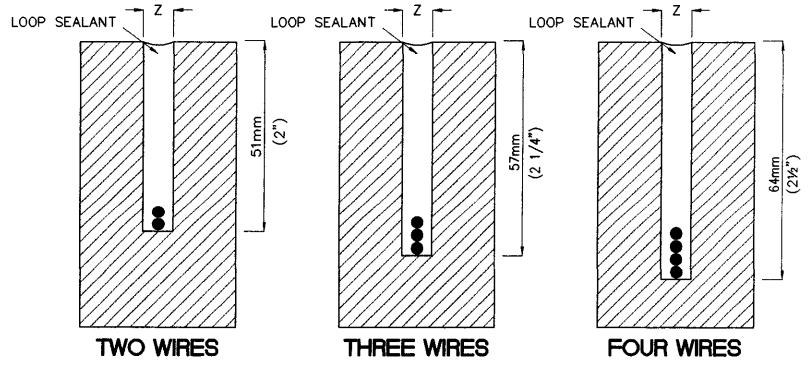
FRANK L. O'KEEFE, Jr. P.E. Mississippi License No. 11097

Mississippi License No. 11097

PWP-00843



"Z" DIMENSION SHALL BE WIDE ENOUGH TO ACCOMMODATE LOOP WIRE WITHOUT CHAFING THE INSULATION (5/16" NOMINAL).



SAW SLOT DETAIL

SAW SLOT AND LOOP WIRE INSTALLATION PROCEDURES

- 1. CONCRETE PAVEMENT JOINTS SHALL NOT BE USED FOR EITHER LOOP OR FEEDER WIRE. NO LOOPS ARE TO BE INSTALLED THROUGH, OVER, OR UNDER TRANSVERSE CONCRETE JOINTS IN CONCRETE PAVEMENT. NO MANHOLES, INLETS, VALVES, ETC. MAY BE LOCATED WITHIN A LOOP. IF JOINTS OR MANHOLES ARE ENCOUNTERED, THE LOCATION OF THE LOOP MAY BE VARIED SLIGHTLY AS DIRECTED BY THE ENGINEER. IF THE JOINTS OR MANHOLES ARE UNAVOIDABLE, SMALLER LOOPS, THE SIZE TO BE DETERMINED BY THE ENGINEER, MAY BE USED INSTEAD OF ONE LARGER LOOP AND SHALL PROVIDE THE SAME AREA OF COVERAGE AS THE LARGE LOOP. THE SMALLER LOOPS USED TO REPLACE THE ONE LARGE LOOP MAY BE CONNECTED TO ONE DETECTOR AMPLIFIER.
- 2. WHEN A BEND OR CORNER IS REQUIRED THE SLOTS PRODUCING THE "WOULD-BE" RIGHT ANGLE SHALL NOT OVERLAP.
- 3. WHEN A BEND OR CORNER IS REQUIRED THE SLOTS PRODUCING THE ANGLES APPROXIMATELY 45° SHALL OVERLAP THE SLOTS IT CONNECTS. THIS IS TO INSURE FULL DEPTH OF SLOTS AT BENDS OR CORNERS.
- 4. ALL CORNERS OF THE LOOP SHALL BE CUT AT A 45° ANGLE AND HAVE A MINIMUM DIAGONAL LENGTH OF 406mm(16").
- 5. SAW CUTS IN THE PAVEMENT SHALL BE FLUSHED WITH CLEAN WATER UNDER SUFFICIENT PRESSURE TO REMOVE MUD AND SMALL DEBRIS. SAW CUTS SHALL THEN BE DRIED AND CLEANED OF ALL DEBRIS BEFORE INSTALLING THE LOOP WIRE.
- 6. ONE CONTINUOUS, UNBROKEN LENGTH OF WIRE SHALL BE USED TO FORM A LOOP OF THE NUMBER OF TURNS AS SPECIFIED IN THE PLANS. THE CONTINUOUS RUN SHALL BE FROM THE PULLBOX/CONDULET INCLUDING THE LOOP AND RETURN.
- 7. ALL WIRE SHALL BE PUSHED INTO THE SAW CUT WITH WOOD STICKS TO INSURE THE INSULATION IS NOT DAMAGED. THE USE OF METAL TOOLS IS NOT PERMITTED.
- 8. SPLICE BETWEEN LEAD-IN AND SHIELDED CABLE REQUIRED IN PULLBOX OR CONDULET. ALL SPLICES IN THE LEAD-IN WIRE SHALL BE MADE ONLY IN THE PULLBOX OR CONDULET. ALL SPLICES MUST BE CAREFULLY MADE TO INSURE CONSTANT LOW RESISTANCE AND MUST BE INSULATED IN SUCH A MANNER THAT UNDER THE LOCAL PREVAILING CONDITIONS THE NSTALLATION MAINTAINS A RESISTANCE TO GROUND OF NOT LESS THAN 5 MEGOHMS. TO INSURE CONSISTENT LOW RESISTANCE CONNECTIONS, THE SPLICES SHALL BE SOLDERED WITH RESIN FILLED SOLDER AND WATERPROOFED BY SHRINK WRAP OR BY OTHER METHOD APPROVED BY THE ENGINEER. OPEN FLAME SOLDER SHALL NOT BE PERMITTED.
- 9. WHERE THE WIRES LEAVE THE LOOP, EACH PAIR OF LEAD-IN WIRES MUST BE TWISTED TOGETHER WITH A MINIMUM OF THREE TWIST PER 0.304m (FOOT).
- 10. IF THE LEAD—IN IS TAKEN OVERHEAD THE WIRE MUST BE PROTECTED BY CONDUIT (TYPE I) FROM UNDERGROUND TO SPAN.
- 11. WHEN A PULLBOX IS NOT USED IN THE LEAD-IN (THE WIRE WHICH CONNECTS THE SENSING LOOP TO THE DETECTOR AMPLIFIER), THE LOOP WIRE SHALL BE TWISTED A MINIMUM OF THREE TWIST PER 0.304m (FOOT) FROM THE LOOP TO THE DETECTOR AMPLIFIER.

RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

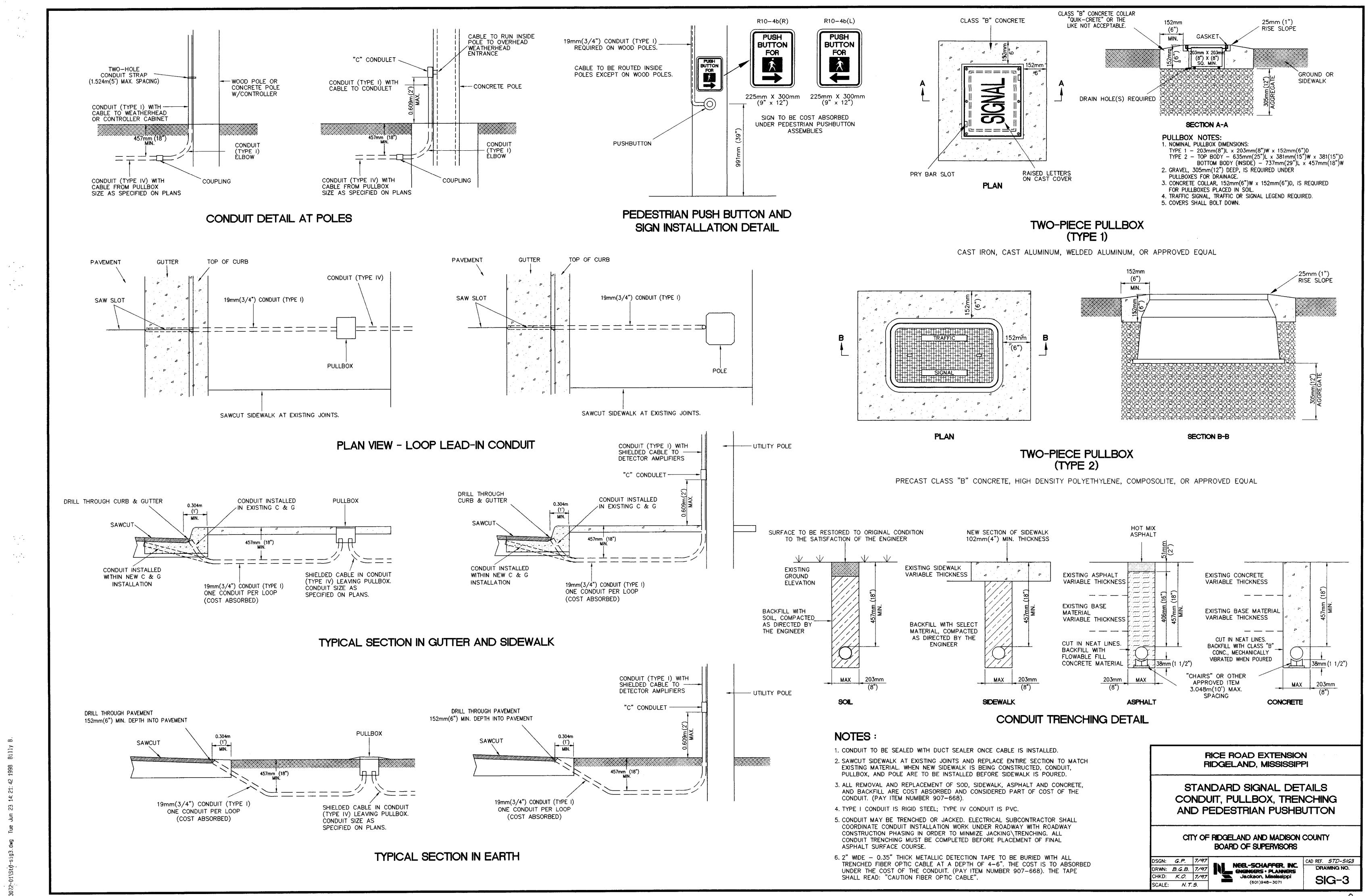
STANDARD SIGNAL DETAILS
VEHICLE LOOP
DETECTOR ASSEMBLY

CITY OF RIDGELAND AND MADISON COUNTY BOARD OF SUPERVISORS

DSGN: G.P. 7/97
DRWN: B.G.B. 7/97
CHKD: K.O. 7/97
SCALE: N.T.S.

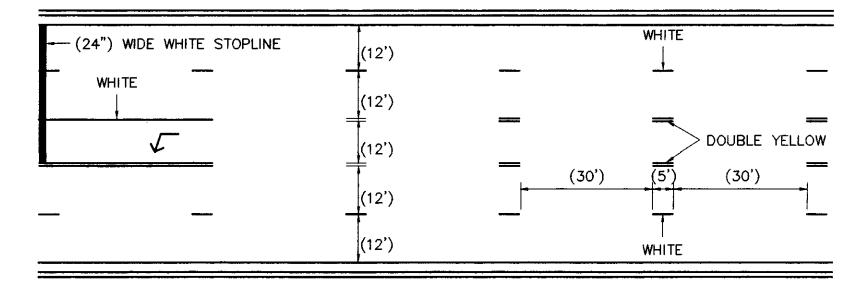
NEEL-SCHAFFER, NC.
SHENEERS • PLANNERS
Jackson, Misslesippi
(601)948-3071

cad ref. STD-SIG2
DRAWING NO.
SIG-2



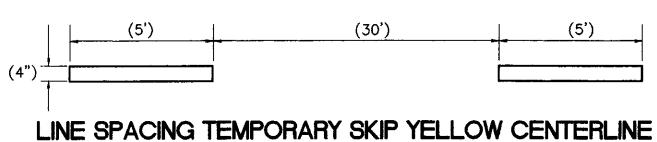
(4") CONTINUOUS YELLOW (4") (4') CONTINUOUS YELLOW

TEMPORARY SOLID DOUBLE YELLOW CENTERLINE STRIPE

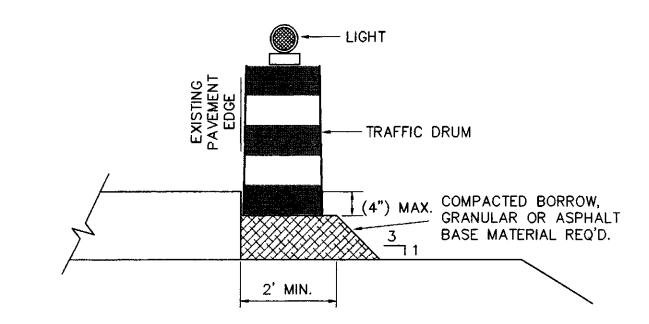


TYPICAL TEMPORARY PAVEMENT MARKINGS

(SEE NOTES 2 AND 3)

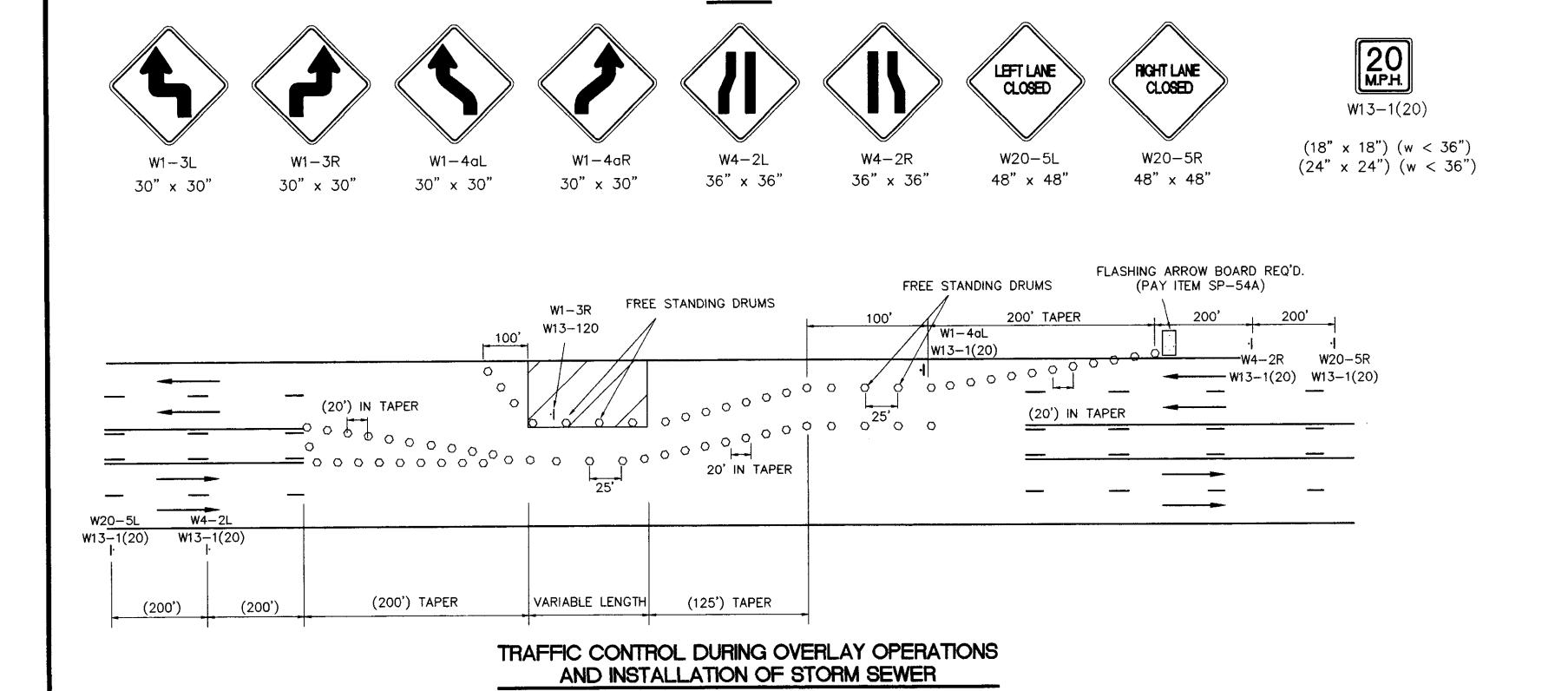


STRIPE OR WHITE LANE LINE STRIPE



DRUM PLACEMENT ON LOW SHOULDERS OR WIDENING

DRUMS REQUIRED WHERE WORK ZONE INCLUDES UNDERCUT SHOULDER AND REMOVAL OF CURB & GUTTER. DRUMS TO BE PLACED AS SHOWN IN DETAIL, LEFT FOR NIGHT TIME OPERATION OR SUSPENSIONS OF WORK. COST TO BE ABSORBED (PAY ITEM SP 54-A).



GENERAL NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY RIDING SURFACE IN SATISFACTORY CONDITION AND REMOVING ALL MATERIALS REQUIRED FOR TEMPORARY LANE ASSIGNMENTS, UNLESS OTHERWISE NOTED.
- 2. TEMPORARY PAVEMENT MARKINGS AS REQUIRED FOLLOWING APPLICATION OF THE BASE COURSE IN NEW CONSTRUCTION OR RECONSTRUCTION AREAS SHALL COMPLIMENT THE PAVEMENT MARKING PLANS. TEMPORARY MARKINGS DO NOT INCLUDE LEGENDS AND CROSS-WALKS. THEY DO INCLUDE LANE LINES, STOP-LINES, TEMPORARY ARROWS AND GORES.
- 3. TEMPORARY PAVEMENT STRIPING (SEMI-PERMANENT FILM OR TAPE) SHALL BE EASY TO REMOVE WITHOUT DAMAGING THE FINAL SURFACE COURSE.
- 4. TAPER LENGTHS SHOWN ARE FOR A 32.2km/h (20 MPH) SPEED.
- 5. CONTRACTOR SHALL COORDINATE RELOCATION AND ADJUSTMENTS TO TRAFFIC SIGNAL SYSTEMS WITH CITY TRAFFIC ENGINEERING DIVISION. CITY WILL ADJUST ALL TRAFFIC SIGNALS.
- 6. SIGNS SHOWN ON PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 7. TEMPORARY STRIPING SHALL BE PROVIDED IN ACCORDANCE WITH THE FINAL PAVEMENT STRIPING PLAN FOLLOWING APPLICATION OF EACH 91.44m (300) FEET OF ASPHALT BASE.
- 8. IN ORDER TO MINIMIZE LANE CLOSURES, WORK WILL BE SCHEDULED IN ORDER TO CLOSE ONLY A SINGLE LANE OF TRAFFIC, BUT AS A MINIMUM, ONE LANE OF TRAFFIC WILL ALWAYS BE OPEN IN EACH DIRECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO CLOSURE OF MORE THAN ONE TRAFFIC LANE.
- 9. THE CONTRACTOR SHALL USE CONCRETE BARRIERS TO SEPARATE ADJACENT TRAFFIC FROM CONSTRUCTION AREAS WHERE THE UNDERCUT IS 6m (2'-0") OR GREATER IN DEPTH FOR SHALLOWER AREAS THE CONTRACTOR MAY MAY USE THE DRUM PLACEMENT ON LOW SHOULDERS OR WIDENING DETAIL (SHOWN AT RIGHT) TO PROTECT THE EDGE OF PAVEMENT DROP-OFF. THE DRUM PLACEMENT IS REQUIRED UNTIL THE NEW CONSTRUCTION IS WITHIN FOUR 4 INCHES OF EXISTING PAVEMENT.
- 10. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ECT., TO SAFELY CHANNEL TRAFFIC. WHEN NECESSARY, FLAGGERS SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES. (FLAGGER AHEAD SIGN REQUIRED EXCEPT DURING BRIEF PERIODS OR EMERGENCY SITUATIONS).
- 11. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND BE REMOVED IMMEDIATELY THEREAFTER.
- 12. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPLICABLE SPECIFICATIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL", LATEST EDITION.
- 13. THESE ARE THE MINIMUM REQUIREMENTS AND IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO MAINTAIN TRAFFIC IN A SAFE MANNER.

RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

TRAFFIC CONTROL STANDARDS

CITY OF RIDGELAND AND MODISON COUNTY BOARD OF SUPERVISORS

CHKD: K.O. 3/98

SCALE: N/A

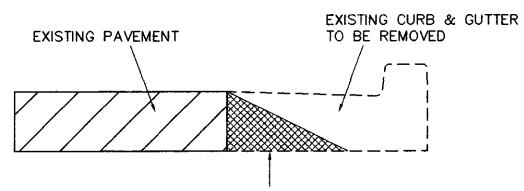
NEEL-SCHAFFER, INC. (601)948-3071

CAD REF. STD-TCI DRAWING NO. STD-TC1

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DRUM PLACEMENT ON LOW SHOULDERS OR WIDENING

DRUMS REQUIRED WHERE WORK ZONE INCLUDES UNDERCUT SHOULDER AND REMOVAL OF CURB & GUTTER. DRUMS TO BE PLACED AS SHOWN IN DETAIL, LEFT FOR NIGHT TIME OPERATION OR SUSPENSIONS OF WORK. COST TO BE ABSORBED (PAY ITEM SP 54-A).

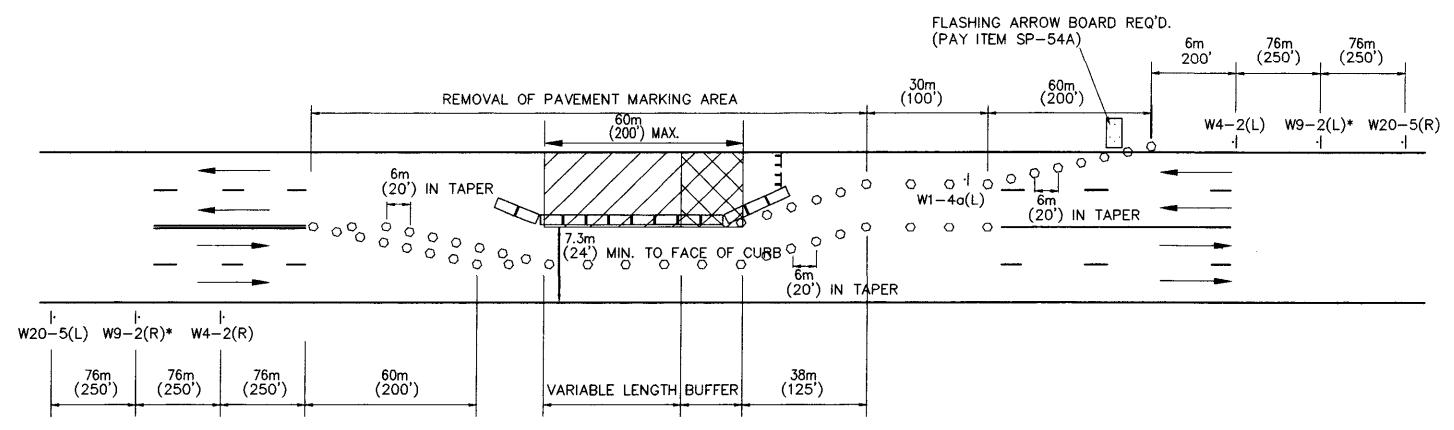


TEMPORARY EDGE OF PAVEMENT RAMP (COMPACTED RED SAND, COLD MIX ASPHALT, ETC.) ON APPROX. 2:1 SLOPE. TO BE INSTALLED AT THE END OF EACH WORK DAY TO PROTECT NEWLY EXPOSED EDGE OF PAVEMENT DROP--OFF.

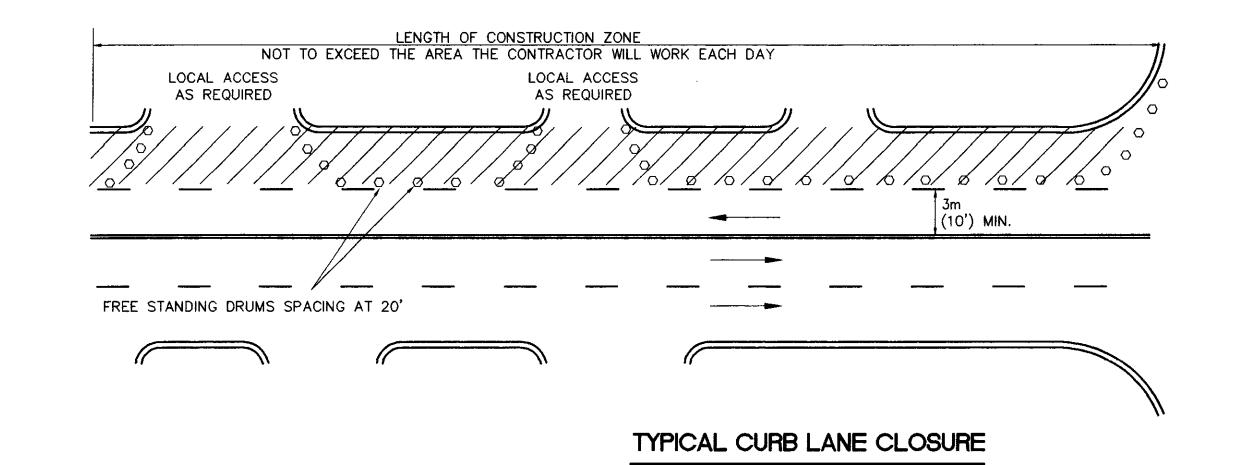
PAVEMENT RAMP DETAIL

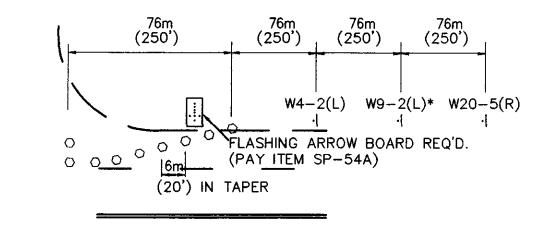
GENERAL NOTES

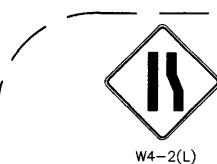
- 1. PAVEMENT MARKINGS NO LONGER APPLICABLE, WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS, SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICAL. REMOVAL OF PAVEMENT MARKINGS WILL BE PAID FOR UNDER BID ITEM NO. SP-54A.
- 2. TEMPORARY MARKINGS ON ALL SURFACES EXCEPT ON THE FINAL WEARING SURFACE MAY BE PAINTED.
- 3. IN ORDER TO MINIMIZE LANE CLOSURES, WORK WILL BE SCHEDULED IN ORDER TO CLOSE ONLY A SINGLE LANE OF TRAFFIC, BUT AS A MINIMUM, ONE LANE OF TRAFFIC WILL ALWAYS BE OPEN IN EACH DIRECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO CLOSURE OF MORE THAN ONE TRAFFIC LANE.
- 4. DURING THE TIME A SIDE STREET HAS TO BE CLOSED, THE CONTRACTOR SHALL INSTALL THE APPROPRIATE DETOUR SIGNING AND BARRICADES. THE CONTRACTOR SHALL NOT CLOSE MORE THAN ONE SIDE STREET AT ANY ONE TIME, UNLESS DIRECTED SO BY THE ENGINEER.
- 5. CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT BUSINESSES AND HOMES AT ALL TIMES. CONTRACTOR IS REQUIRED TO NOTIFY BUSINESSES, HOMEOWNERS AND ENGINEER AT LEAST 48 HOURS IN ADVANCE OF ANY ACCESS RESTRICTIONS.
- 6. THE CONTRACTOR SHALL USE CONCRETE BARRIERS TO SEPARATE ADJACENT TRAFFIC FROM CONSTRUCTION AREAS WHERE THE UNDERCUT IS 6m (2'-0") OR GREATER IN DEPTH. FOR SHALLOWER AREAS THE CONTRACTOR MAY MAY USE THE DRUM PLACEMENT ON LOW SHOULDERS OR WIDENING DETAIL (SHOWN AT RIGHT) TO PROTECT THE EDGE OF PAVEMENT DROP-OFF. THE DRUM PLACEMENT IS REQUIRED UNTIL THE NEW CONSTRUCTION IS WITHIN FOUR 102mm (4 INCHES) OF EXISTING PAVEMENT.
- 7. CONTRACTOR SHALL INSTALL TRAFFIC CONTROL DEVICES SUCH AS CONES, DRUMS, FLASHERS, BARRICADES, SIGNS, ECT., TO SAFELY CHANNEL TRAFFIC. WHEN NECESSARY, FLAGGERS SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL DEVICES. (FLAGGER AHEAD SIGN REQUIRED EXCEPT DURING BRIEF PERIODS OR EMERGENCY SITUATIONS).
- 8. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WHENEVER NECESSARY, REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED, AND BE REMOVED IMMEDIATELY THEREAFTER.
- 9. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPLICABLE SPECIFICATIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL", LATEST EDITION.
- 10. THESE ARE THE MINIMUM REQUIREMENTS AND IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO MAINTAIN TRAFFIC IN A SAFE MANNER.



TRAFFIC CONTROL FOR DRAINAGE WORK



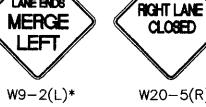




(36" × 36")

MERGE LEFT

OPTIONAL SIGN



W20-5(R) 900mm x 900mm y 900mm x 1200mm x 1200mm

 $(36" \times 36")$ $(48" \times 48")$

RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

TRAFFIC CONTROL STANDARDS

CITY OF RIDGELAND AND MODISON COUNTY BOARD OF SUPERVISORS

DRWN: B.G.B. 7/97
CHKD: K.O. 7/97
COALE (601)048 7071

CAD REF. STD-TC2

DRAWING NO.

TC-2

SUMMARY OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNITS | TOT | TOTAL | |
|-------------|---|--|-----------|-------|--|
| | | | ESTIMATED | FINAL | |
| | | ALC TO THE TOTAL T | | | |
| 907-635-A | VEHICLE LOOP ASSEMBLIES | L. F. | 508 | | |
| 907-638-A | LOOP DETECTOR AMPLIFIER, CARD RACK MOUNTED (4-CHANNEL) | EACH | 2 | | |
| 907-637-B | ALT. A - SPECIAL ORNAMENTAL POLE (SINGLE 50' MAST ARM), (18' SHAFT) | EACH | 1 | | |
| 907-637-B | ALT. A - SPECIAL ORNAMENTAL POLE (DOUBLE 50' MAST ARMS), (18' SHAFT) | EACH | 1 | | |
| 907-639-B | | EACH | 1 | | |
| 907-639-В | ALT. B - STANDARD STEEL TRAFFIC SIGNAL & EQUIPMENT POLE (DOUBLE 50' MAST ARMS), (28' SHAFT))PER PLANS) | EACH | 1 | | |
| 907-640 | TRAFFIC SIGNAL HEADS (TYPE 1) | EACH | 4 | | |
| 907-640 | TRAFFIC SIGNAL HEADS (TYPE 5) | EACH | 1 | | |
| 907-640 | TRAFFIC SIGNAL HEADS (TYPE 7) | EACH | 1 | | |
| 907-642-C | SOLID STATE TRAFFIC ACTUATED CONTROLLERS, TYPE 3, W/ TBC | EACH | 1 | | |
| 907-644-A | OPTICAL DETECTOR (1 EYE - 1 CHANNEL) | EACH | 3 | | |
| 907-644-B | OPTICAL DETECTOR CABLE | L. F. | 551 | | |
| 907-644-C | TRAFFIC SIGNAL PHASE SELECTOR (4 CHANNEL) | EACH | 1 | | |
| 907-647-A | PULLBOXES (TYPE 1) | EACH | 2 | | |
| 907-647-B | PULLBOXES (TYPE 2) | EACH | 3 | | |
| 907-653-A | TRAFFIC SIGN (ENCAPSULATED LENS) | S. F. | 5 | | |
| 907-653-B | STREET NAME SIGN (ENCAPSULATED LENS) | S. F. | 26.6 | | |
| 907-659 | MAINTENANCE OF TRAFFIC SIGNALS | L. S. | 1 | | |
| 907-666-A | ELECTRIC CABLE IMSA 20-1, AWG #6, 2 COND. | L. F. | 100 | | |
| 907-666-A | ELECTRIC CABLE IMSA 20-1, AWG #10, 2 COND. | L. F. | 313 | | |
| 907-666-A | ELECTRIC CABLE IMSA 20-1, AWG #14, 7 COND. | L. F. | 563 | | |
| 907-666-B | SHIELDED CABLE, (4 COND.) | L. F. | 838 | | |
| 907-668-A | LIGHTING AND TRAFFIC SIGNAL CONDUIT (UNDERGROUND), (TRENCHED), (TYPE IV), (1") | L. F. | 748 | ** | |
| 907-668-A | LIGHTING AND TRAFFIC SIGNAL CONDUIT (UNDERGROUND), (TRENCHED), (TYPE IV), (2") | L. F. | 123 | | |
| | LIGHTING AND TRAFFIC SIGNAL CONDUIT (UNDERGROUND), (JACKED), (TYPE I) (2") | , , | | | |

GENERAL NOTES (TRAFFIC SIGNAL)

- All signs, signals, pavement markings and temporary traffic control devices are to conform to the <u>Manual on Uniform Traffic Control</u> <u>Devices</u> (1988 Edition and all subsequent revisions).
- 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 for himself independent investigations, including subsurface investigations, as may be necessary.
- 3. All raised objects to be placed a minimum of 2' behind face of curb. New Traffic Signal Poles to be placed a minimum of 5' behind face of curb except where in conflict with utilities or Right—of—Way.
- 4. 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.
- 5. Extend pole foundations to approximately ± 3 above the shoulder elevation or the top of curb elevation.
- 6. Controller timings to be provided by the Engineer.
- Contractor shall make the application for power service, coordinating with City Officials, in advance of requiring the electrical service.
- 8. All city poles (wood, concrete or steel) supporting existing traffic signal equipment to be completely removed by contractor. All detector cabinets and controller bases (unless noted on plans) are to be completely removed. All existing pole bases are to be removed a minimum of 6 inches below finish grade. (cost absorbed). Disturbed area to be restored to condition of surrounding area to the satis faction of the engineer.
- Loop detectors installed in new/milled asphalt are to be installed prior to final surface course being applied.
- 10. All traffic signal related equipment shall be provided in accordance with the Mississippi Standard Specification for Road And Bridge Construction, 1996 Edition, and the Mississippi Supplemental Specifications to the Standard Specifications For Road And Bridge Construction, Traffic Signals And Lighting, 1996 Edition.
- 11. The cost for Pay Item No. 907-642-C "Solid State Traffic Actuated Controllers, Type 3, W/TBC" shall include an extra conflict monitor to be delivered to the City of RIDGELAND Public Works Department.

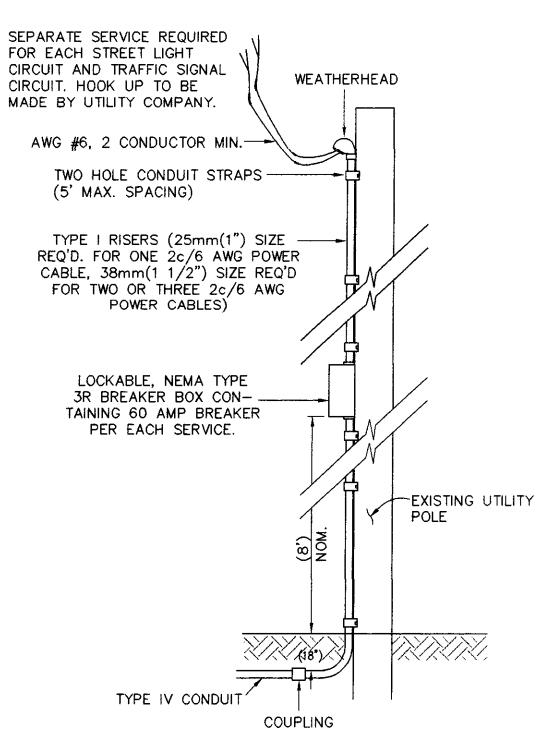
RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

SUMMARY OF QUANTITIES TRAFFIC SIGNAL INSTALLIATION AND GENERAL NOTES

> MODISON COUNTY BOARD OF SUPERVISORS AND CITY OF RIDGELAND

NEEL-SCHAFFER, INC.
ENGINEERS • PLANNERS
Jackson, Mississippi
(600)048 107

Approved FRANK L. O'KEEFE, JR. P.E. Mississippi License No. 11097



POWER SERVICE DETAIL

RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

STANDARD SIGNAL DETAILS MAST ARM SIGNAL POLES (ALT. A) AND CONTROLLER CABINET

CITY OF RIDGELAND AND MADISON COUNTY BOARD OF SUPERVISORS

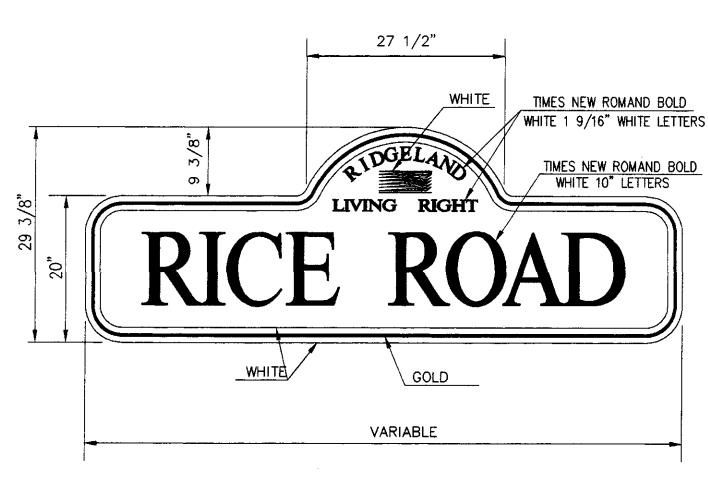
DRWN: B.G.B. 6/98 CHKD: K.O. 6/98 SCALE: N/A

CAD REF. STD-SIGI NEEL-SCHAFFER, INC. ENGNEERS • PLANNERS Jackson, Mississippi

TS-1A

DOUBLE MAST ARM POLE

25" DIA. MIN.



STREET NAME SIGNS (TYPICAL)

THE SIGN BLANK SHALL BE A SINGLE PIECE OF SMOOTH CUT ALUMINUM FROM ASTM B-209 ALLOY 5052-H36, 5052-H38, 5154-H38 OR 6061-T6 SHEETS IN 0.125 INCH THICKNESS. THE ALUMINUM SHALL BE DEGREASED AND LIGHTLY ACID ETCHED BEFORE THE SIGN SHEETING IS APPLIED. THE SIGN SHEETING SHALL BE APPLIED TO THE PANELS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE RETROFLECTIVE SHEETING MANUFACTURER

THE DECORATIVE STREET NAME SIGNS SHALL BE FINISHED ON BOTH SIDES. THE SIGN SHEETING MATERIAL SHALL BE REFLECTIVE ENCLOSED LINES (ENGINEER GRADE) CONFORMING TO FEDERAL SPECIFICATIONS FP92. THE COLORS OF THE DECORATIVE STREET NAME SIGNS SHALL MATCH THE EXISTING DECORATIVE STREET NAME SIGNS.

THE BACK OF THE STREET NAME SIGN ON THE NORTHEAST SIGNAL POLE HAVE THE SAME BROWN COLOR AS THE OTHER NATCHEZ TRACE ALUMINUM SHEETING IN THE AREA.

- 1. POLES, BASE AND MASK ARMS TO BE FINISHED PAINTED WITH BLACK SEMI ENAMEL (FEDERAL SPEC. 595B - COLOR 27038). ALL EXPOSED METAL SURFACES INCLUDING CONDUIT AND SIGNAL AND SIGN MOUNTING HARDWARE TO BE SAME
- 2. ALL DIMENSIONS SHOWN ARE NOMINAL. POLE SHALL BE SIMILAR TO UNION METAL COLUMBIAN FAMILY STYLE. POLE DESIGN TO BE APPROVED BY ENGINEER.
- 3. GLOBES SHALL BE SIMILAR TO UNION METAL STYLE FP IC9 GLOBE STYLE SHALL
- 4. DOUBLE LUMINARIES TO BE POSITIONED PARALLEL TO SIDEWALK.
- 5. ACCESS DOOR IN BASE TO COIN SIDE WITH HANDHOLE IN SHAFT.
- 6. TWO 2" REINFORCED NIPPLES REQUIRED FOR POLES WITH CONTROLLER CABINETS. TOP NIPPLE 38" FROM BOTTOM OF POLE BOTTOM NIPPLE ±32" FROM BOTTOM OF
- 7. ALL RED INDICATIONS ON SIGNAL HEADS TO BE MOUNTED AT SAME HEIGHT.
- 8. ALL SINGLE POLES SHALL BE DESIGNED FOR ULTIMATE LOADING OF 5 SECTION HEAD, ONE THREE SECTION SIGNAL HEAD, ONE STREET NAME SIGN AND ONE R10-12 SIGN PER MASK ARM.
- 9. SIGNAL HEADS TO BE VERTICALLY ADJUSTED IN FIELD TO MAXIMIZE LINE OF
- 10 PROTECTIVE SHIPPING WRAPPING TO REMAIN ON POLE AND MAST ARM UNTIL ERECTION. METHOD OF ERECTION TO BE APPROVED BY THE ENGINEER.

RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

ORNAMENTAL POLE DETAIL (ALT. "B")

CITY OF RIDGELAND AND MADISON COUNTY BOARD OF SUPERVISORS

DRWN: B.G.B. 6/98
CHKD: K.O. 6/98
SCALE: ACC. 10/10/1948-3071

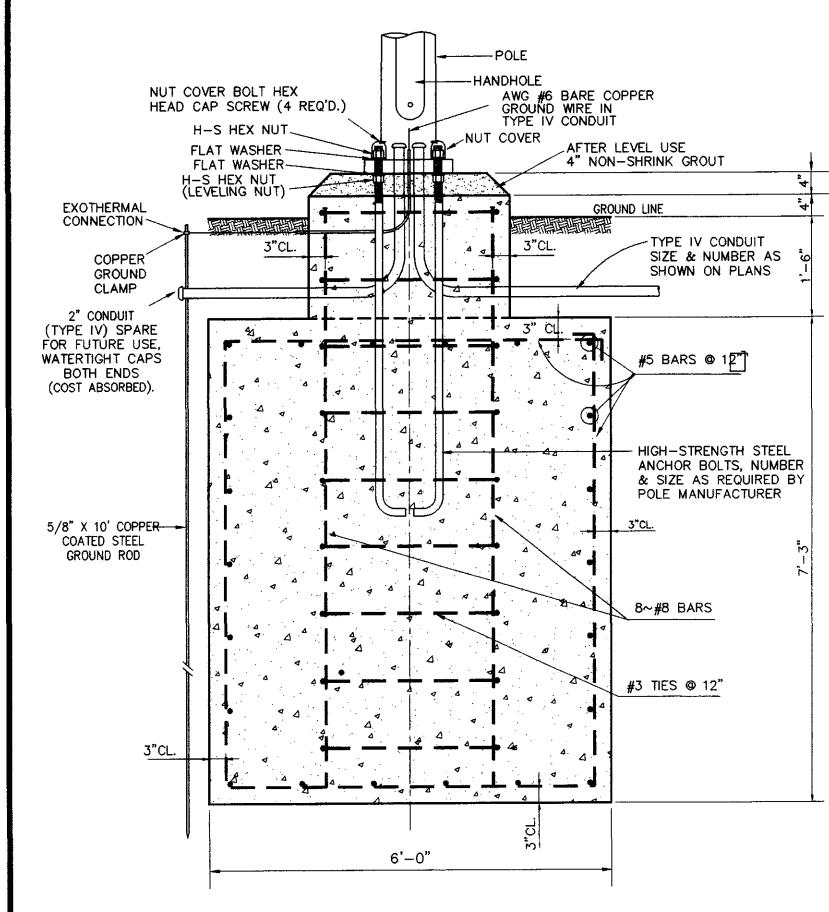
(601)948-3071

TS-1B

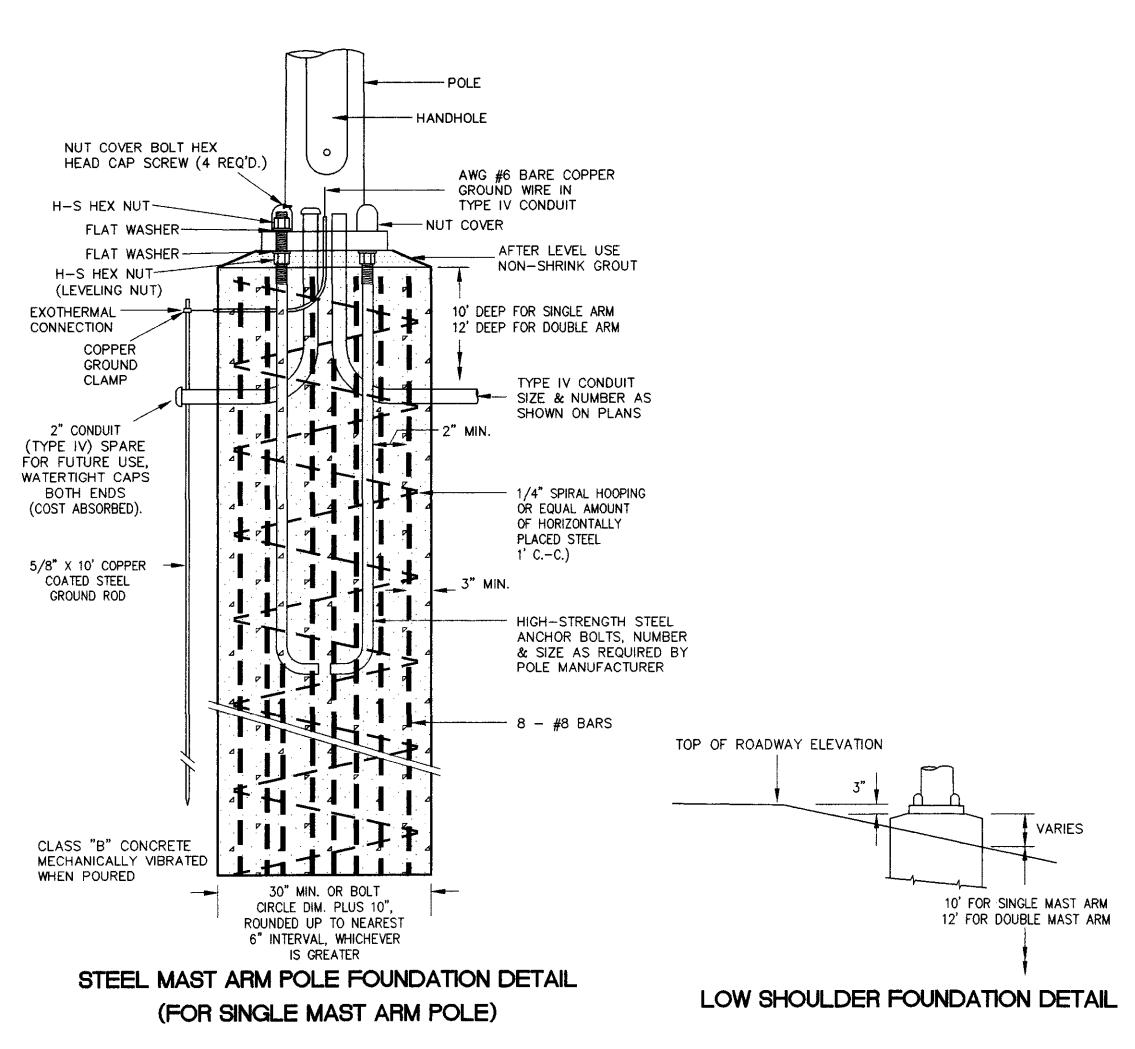
SHEET 5

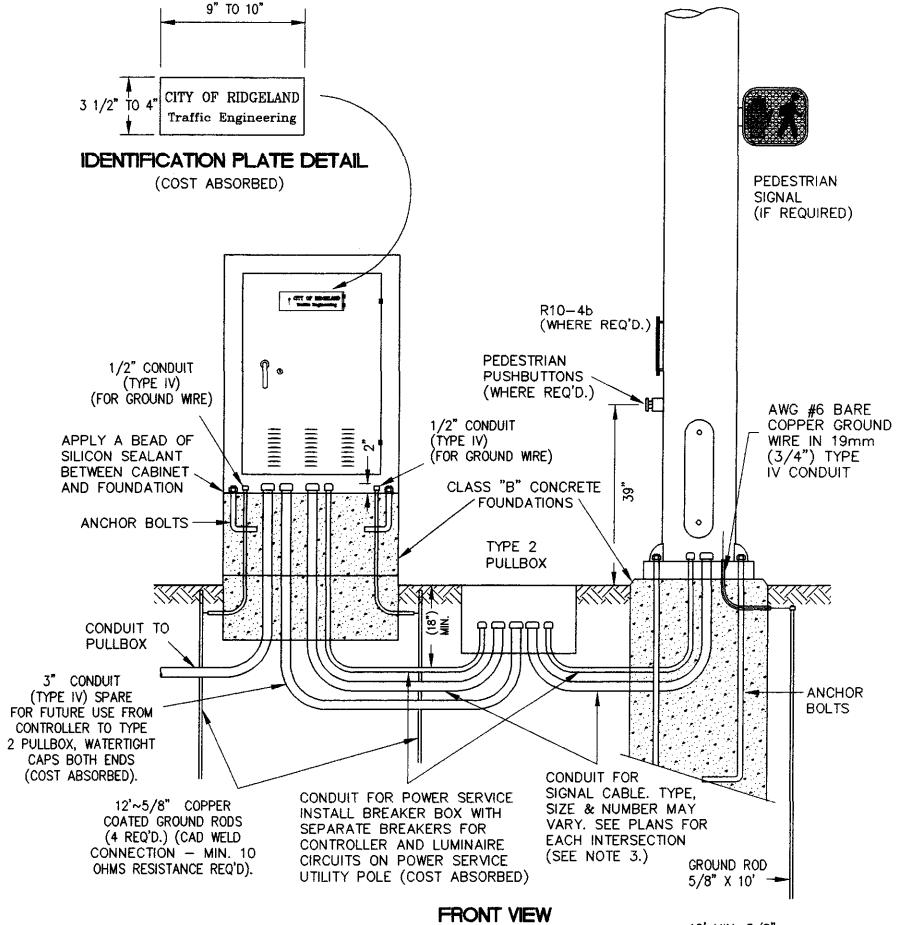
CAD REF. STD-SIGI

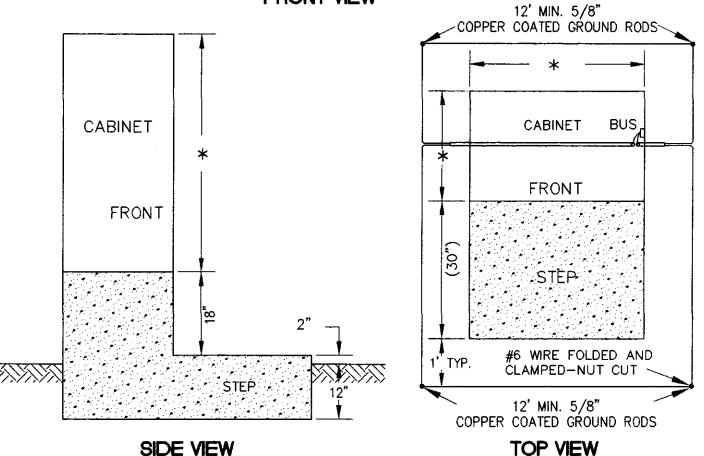
DRAWING NO.



STEEL MAST ARM POLE FOUNDATION DETAIL (FOR DOUBLE MAST ARM POLE)







CONTROLLER BASE DETAIL

* CABINET DIMENSIONS TO MEET SIGNAL CABINET MANUFACTURER'S SPECIFICATIONS. NOMINAL DIMENSIONS: 8-PHASE - D=26", W=44", H=55" 4-PHASE - D=17", W=30", H=52"

GENERAL FOUNDATION NOTES

- EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE MANUFACTURER. ANY FOUNDATION FAILING TO MEET THESE DIMENSIONS WILL BE REJECTED.
- 2. TYPE IV CONDUIT TO BE RUN INTERNALLY FOR CONCRETE AND STEEL POLES; TYPE I CONDUIT RISERS REQUIRED FOR WOOD POLES.
- 3. DESIGN WIND LOAD FOR POLES SHALL BE 70 MPH.
- 4. FOUNDATIONS TO BE CLASS "B" CONCRETE, MECHANICALLY VIBRATED WHEN POURING.
- 5. MINIMUM STEEL POLE FOUNDATION SHALL BE 30" DIA. x 10' DEEP FOT SINGLE MAST ARM POLE.
- 6. #6 COPPER GROUND WIRE AND 5/8" DIA. COPPER GROUND ROD REQ'D. FOR ALL POLE FOUNDATIONS. (COST ABSORBED).

RICE ROAD EXTENSION RIDGELAND, MISSISSIPPI

POLE AND CONTROLLER **FOUNDATIONS**

CITY OF RIDGELAND AND MADISON COUNTY BOARD OF SUPERVISORS

NEEL-SCHAFFER, INC. ENERGERS • PLANNERS Jackson, Mississippi CHKD: K.O. 6/98 SCALE: N/A

CAD REF. STD-SIGI

DRAWING NO.