

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	100.0	Hour
634E0110	Traffic Control Signs	625.5	SqFt
634E0120	Traffic Control Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	27	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	2,300	Ft
634E0640	Temporary Pavement Marking	10,620	Ft
634E1002	Detour Signing	2,107.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each

SEQUENCE OF OPERATIONS

Requests to deviate from the sequence of operations shall be submitted in writing to the Engineer for review. Approval of an alternate sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work. An alternate sequence shall be submitted for review a minimum of one week prior to potential implementation.

PHASE 1

1. Install Phase 1 traffic control.
2. Install proposed utilities and roadway.
3. HWY 100, from Maple St to Rice St, shall remain closed during this phase.
4. See Special Provisions for Contract Time for sequencing and timelines.

PHASE 2

1. Install Phase 2 traffic control.
2. Install temporary surfacing on south side of Rice St, at west end, to carry traffic during the Rice St west end tie-in work.
3. Install proposed utilities and roadway.
4. HWY 100, Maple St to Rice St, shall remain closed during this phase.
5. See Special Provisions for Contract Time for sequencing and timelines.

PHASE 3

1. Install Phase 3 traffic control.
2. Install temporary surfacing on north side of Rice St, just west of Timberline Ave, to carry traffic during the Rice St center segment tie-in work.
3. Install proposed utilities and roadway.
4. HWY 100, Maple St to Rice St, shall remain closed during this phase.
5. See Special Provisions for Contract Time for sequencing and timelines.

PHASE 4

1. Install Phase 4 traffic control.
2. Close Timberline Ave, from 60th St N to Rice St.
3. Install temporary surfacing on south side of Rice St, at east end, to carry traffic during the Rice St east end tie-in work.
4. Install proposed utilities and roadway.
5. HWY 100, Maple St to Rice St, shall remain closed during this phase.
6. Timberline Ave, from 60th St N to Rice St, shall remain closed during this phase.
7. See Special Provisions for Contract Time for sequencing and timelines.

PHASE 5

1. Install Phase 5 traffic control.
2. Install proposed utilities and roadway.
3. HWY 100, from Maple St to Rice St, shall remain closed during this phase.
4. See Special Provisions for Contract Time for sequencing and timelines.

INCIDENTS

An incident is an emergency road user occurrence, a natural disaster, or other unplanned event that affects or impedes the normal flow of traffic such as an accident, hazardous materials spill, or similar event. The Contractor shall set up a meeting prior to start of work to plan and coordinate responses to an incident. The Contractor will invite the Department of Transportation, the South Dakota Highway Patrol, the City of Sioux Falls, and local emergency response entities to the meeting. The Contractor shall conduct the meeting.

The Contractor will assist to maintain traffic as required by these plan notes and as agreed to at the meeting. The Contractor will be required to modify messages on portable changeable message signs or relocate portable changeable message signs. The Contractor may be asked to provide flaggers to direct or detour of traffic. The Contractor should be prepared to relocate advance warning signs if determined to be necessary for a major traffic incident lasting for more than two hours. Ground mounted advance warning signs may be covered and additional portable warning signs provided.

No additional payment will be made for the modification of portable changeable message sign messages or the relocation of portable changeable message signs. Costs for flagging shall be paid at the contract unit price per hour for "Flagging". Cost for the relocation of an advanced warning sign due to an incident shall be 50% of the designated sign rate as per Section 634.5 Basis of Payment in the Specifications. Cost for additional signs shall be paid at the contract unit price per square foot "Traffic Control Signs".

REMOVE EXISTING PAVEMENT MARKING

Existing pavement markings which conflict with the desired traffic patterns detailed in the traffic control layouts shall be removed by the Contractor unless otherwise shown.

CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGNS

The Contractor shall program the portable changeable message signs near the project work limits with the following messages for use during normal traffic flow:

REDUCED SPEED or ROAD WORK AHEAD
TWO WAY TRAFFIC EXPECT DELAYS

During peak times when traffic queues exist or during incident management:

SLOW TRAFFIC AHEAD or CRASH AHEAD
BE PREPARED TO STOP BE PREPARED TO STOP

The Engineer may approve alternate messages to fit project conditions.

The portable changeable message signs shall be located as determined by the Project Engineer. The signs shall not be stored long term on the shoulders of the roadway.

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C2	C22

Plotting Date: 6/21/2016

Rev 6/21/2016 LRM

GENERAL MAINTENANCE OF TRAFFIC

Existing guide, route, informational logo, regulatory, and warning signs shall be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging and resetting of existing traffic control devices, including but not limited to, traffic signal heads, delineation, and signing shall be the responsibility of the Contractor.

All R1-1 STOP, R2-1 SPEED LIMIT, and R5-1 DO NOT ENTER signs shall have a mounting height of five feet even when mounted on portable supports.

Unless otherwise stated in these plans, no work will be allowed during hours of darkness.

All construction operations shall be conducted in the general direction of traffic movement.

The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent shall be used, as determined by the Engineer.

Temporary Flexible Vertical Markers (Tabs) shall be used for lane closure tapers or lane shift tapers and shall be installed at 5' spacing.

Proposed permanent markings and signs shall be installed, per the Engineer's determination, before continuing to the next phase. If the Contractor is unable to install permanent markings, interim markings shall be installed to match the intent of the proposed markings.

Additional traffic control setup details are shown in the standard plate section. Upon approval from the Engineer, these plates shall be used as necessary by the Contractor to complete miscellaneous operations throughout the project. Signs installed for these setups shall be paid accordingly per square foot of the sign installed.



TRAFFIC CONTROL DETAILS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C3	TOTAL SHEETS C22
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FILE: ...Details sheet 1-traffic signs
PLOTING DATE: 06-09-2016

REV DATE:
INITIAL:

TABLE FOR TRAFFIC CONTROL SIGNS (SqFt)

Sign Description	Symbol	Sign Code	Width (in)	Height (in)	Sign Quantity (SqFt)	Phase 1		Phase 2		Phase 3		Phase 4		Phase 5		Field Determined Signs		Payment Quantity*	
						No. of Signs	Total SqFt	No. of Signs	Total SqFt	No. of Signs	Total SqFt								
ROAD WORK AHEAD	A	W20-1	48	48	16.0	3	48.0	2	32.0	3	48.0	2	32.0	2	32.0	2	32.0	5	80.0
SHOULDER WORK	B	W21-5	48	48	16.0	6	96.0					2	32.0	2	32.0	2	32.0	8	128.0
TRUCK CROSSING	C	W8-6	48	48	16.0	5	80.0							2	32.0	2	32.0	7	112.0
FLAGGING	D	W20-7	48	48	16.0	5	80.0							2	32.0	2	32.0	7	112.0
CURVE LEFT	E	W1-4L	48	48	16.0			2	32.0			2	32.0					2	32.0
CURVE RIGHT	F	W1-4R	48	48	16.0			2	32.0	1	16.0	2	32.0					2	32.0
HARD CURVE LEFT	G	W1-2L	48	48	16.0					1	16.0							1	16.0
HARD CURVE RIGHT	H	W1-2R	48	48	16.0					1	16.0							1	16.0
SPEED LIMIT 35 AHEAD	I	W3-5	48	48	16.0			2	32.0			2	32.0					2	32.0
END ROAD WORK	J	G20-2	36	18	4.5	3	13.5	2	9.0	3	13.5	2	9.0	2	9.0			3	13.5
ARROW LEFT	K	W1-6L	48	24	8.0			1	8.0			1	8.0					1	8.0
SPEED LIMIT 35 MPH	L	R2-1	24	30	5.0			2	10.0	2	10.0	2	10.0			2	10.0	4	20.0
20 MPH PLAQUE	M	W13-1P	24	24	4.0					2	8.0							2	8.0
NO LEFT TURN (SYMBOL)	N	R3-2	24	24	4.0							2	8.0					2	8.0
NO RIGHT TURN (SYMBOL)	O	R3-1	24	24	4.0							2	8.0					2	8.0
Total							317.5		155.0		127.5		203.0		137.0		138.0		625.5

*Only the largest quantity installed during any phase plus the Field Determined Signs shall be used for the payment quantity.

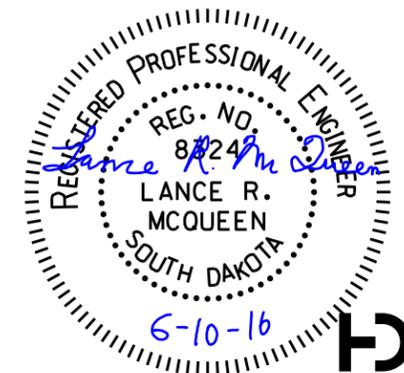
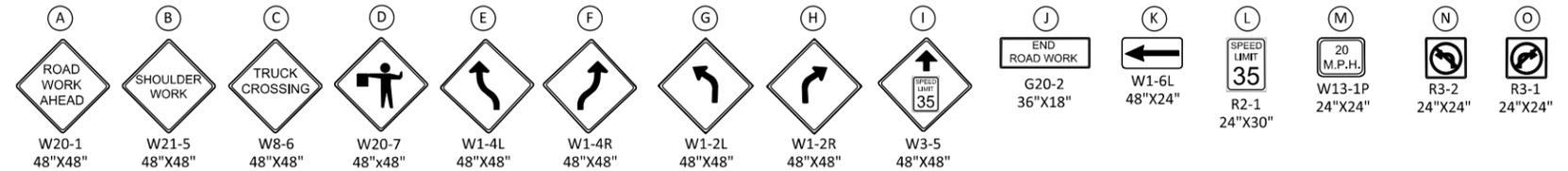
OTHER TRAFFIC CONTROL QUANTITIES

Item	Unit	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Field Determine	Total	Payment Quantity**
Flagging	Hour	25	15	15	15	15	15	100	Use Total
Remove Pavement Marking, 4" or Equivalent	Ft		1050	400	350		500	2300	Use Total
Temporary Pavement Marking	Ft		3360	2560	3700		1000	10620	Use Total
Contractor Furnished Portable Changeable Message Sign	Each						2	2	Use Total

**Only the largest quantity from one phase will be used as the payment quantity, unless noted as "Use Total".
If "Use Total" is shown, the quantity in the "Total" column shall be used.

TYPE 3 BARRICADES, 8' DOUBLE SIDED

Phase	Quantity (Each)
Phase 1 Layout	
Phase 1 - Overall Signs	11
Phase 2 Layout	4
Phase 3 Layout	3
Phase 4 Layout	4
Phase 4 - Timberline Ave Closure	7
Phase 5 Layout	
Field Determined	5
Payment Quantity	27



TRAFFIC CONTROL DETAILS

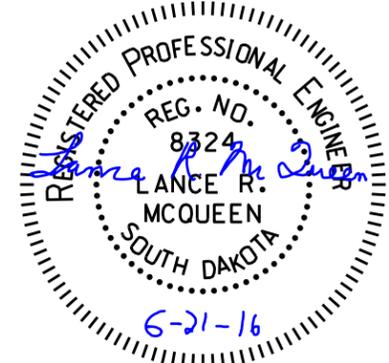
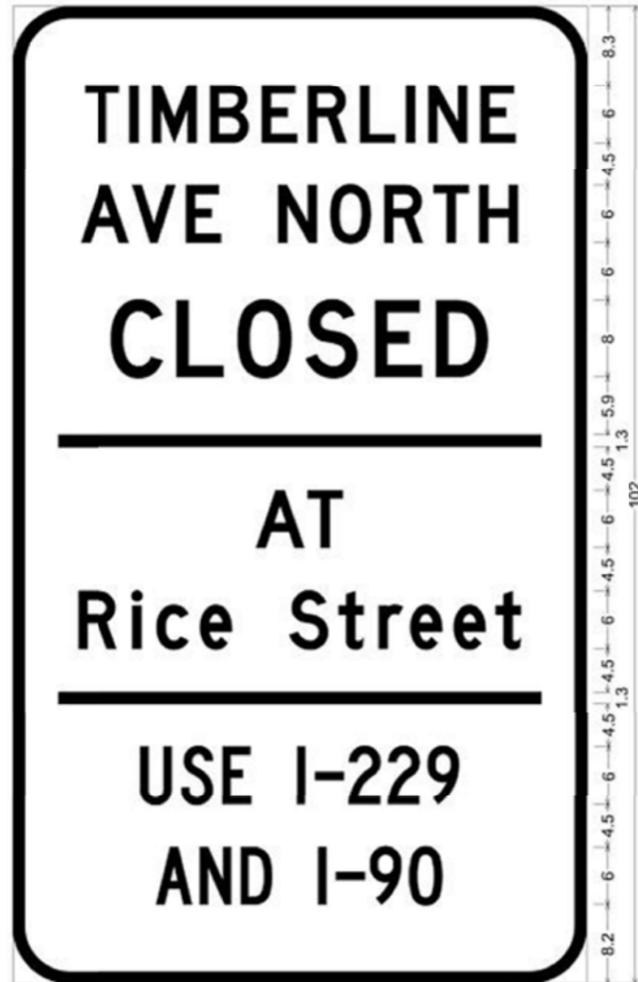
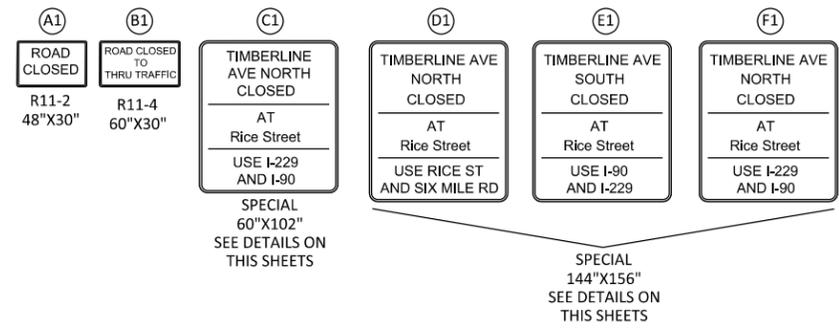
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C4	TOTAL SHEETS C22
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FILE: ...C-Traffic Control\C04.dgn
PLOTING DATE: 06-21-2016
REV DATE: 6/21/2016
INITIAL: LRM

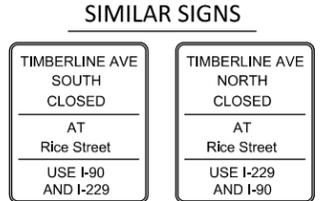
Sign Description	Symbol	Sign Code	Width (in)	Height (in)	Sign Quantity	Phase 1 - Overall Signs		Phase 4 - Timberline Ave		Field Determined		Payment Quantity*	
						No. of Signs	Total SqFt	No. of Signs	Total SqFt	No. of Signs	Total SqFt	No. of Signs	Total SqFt
						ROAD CLOSED	A1	R11-2	48	30	10.0	3	30.0
ROAD CLOSED TO THRU TRAFFIC	B1	R11-4	60	30	12.5			1	12.5	2	25.0	3	37.5
TIMBERLINE AVE NORTH CLOSED...USE I-229 AND I-90	C1	SPECIAL	60	102	42.5			2	85.0	1	42.5	3	127.5
TIMBERLINE AVE SOUTH CLOSED...USE RICE ST AND SIX MILE RD	D1	SPECIAL	144	156	156.0			1	156.0	1	156.0	2	312.0
TIMBERLINE AVE SOUTH CLOSED...USE I-90 AND I-229	E1	SPECIAL	144	156	156.0			6	936.0	1	156.0	7	1092.0
TIMBERLINE AVE NORTH CLOSED...USE I-229 AND I-90	F1	SPECIAL	144	156	156.0			2	312.0	1	156.0	3	468.0
Total						30.0	1521.5	555.5	2107.0				

*Due to the signs needing to be installed concurrently with each other, the payment quantity shall be for all signs installed.



6.0" Radius, 1.3" Border, Black on Fluorescent orange;
 "TIMBERLINE" D; "AVE NORTH" D; "CLOSED" D; "AT" D;
 "Rice Street" D; "USE I-229" C 80% spacing; "AND I-90" C 80% spacing;

12.0" Radius, 2.0" Border, Black on Fluorescent orange;
 "TIMBERLINE AVE" D; "NORTH" D; "CLOSED" D; "AT" D; "Rice Street" D; "USE RICE ST" D; "AND SIX MILE RD" D;

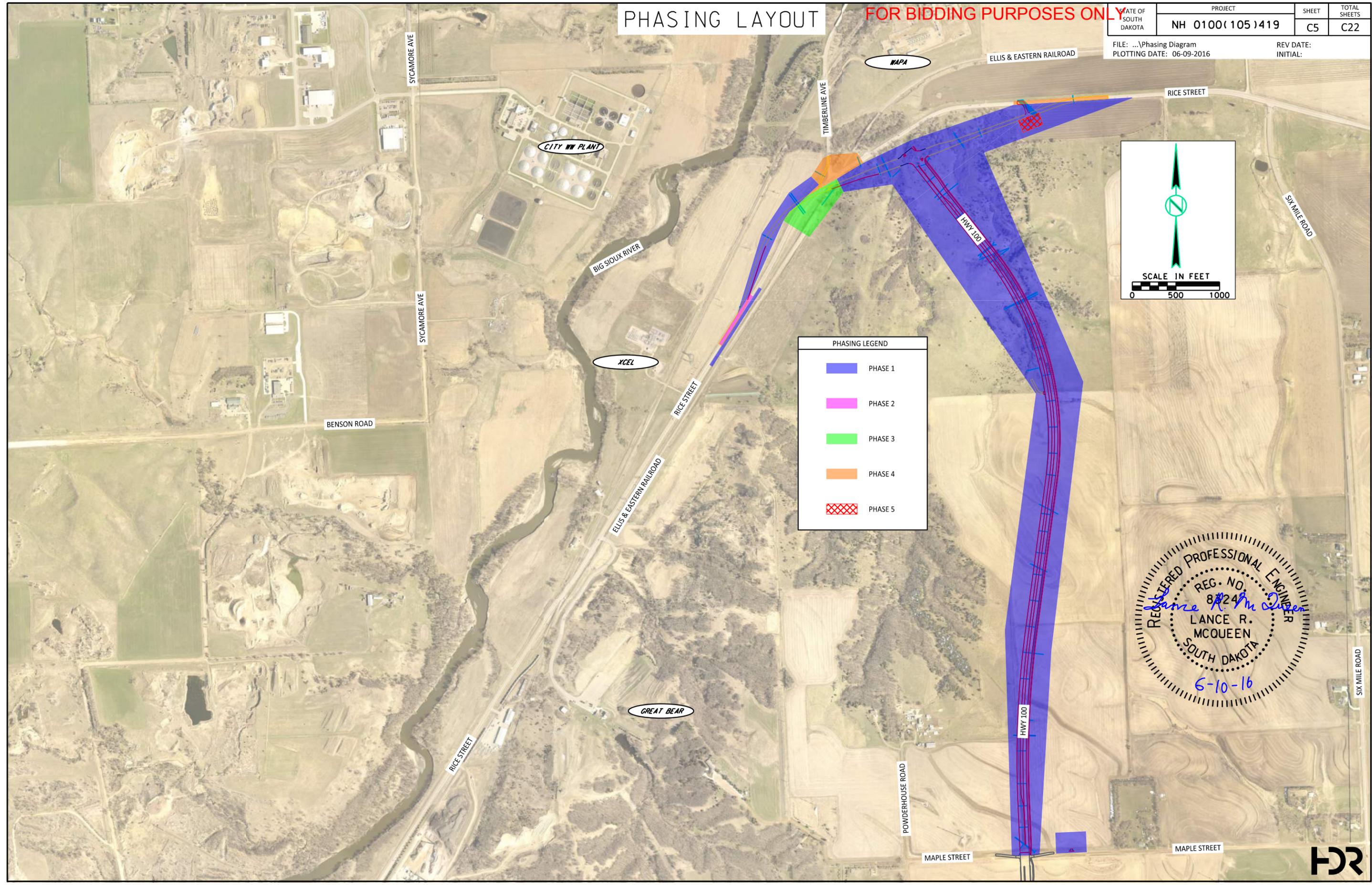


PHASING LAYOUT

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C5	TOTAL SHEETS C22
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FILE: ...Phasing Diagram
PLOTING DATE: 06-09-2016
REV DATE: INITIAL:



PHASING LEGEND	
	PHASE 1
	PHASE 2
	PHASE 3
	PHASE 4
	PHASE 5

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8724
Lance R. McQueen
LANCE R. MCQUEEN
SOUTH DAKOTA
6-10-16

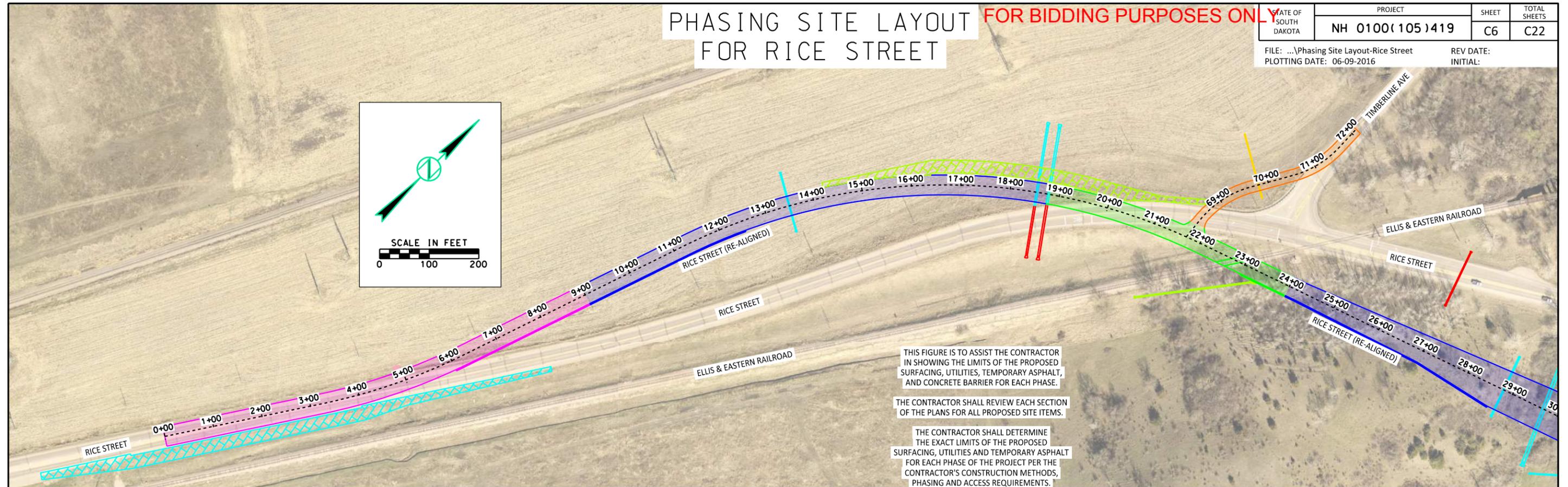


PHASING SITE LAYOUT FOR RICE STREET

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C6	TOTAL SHEETS C22
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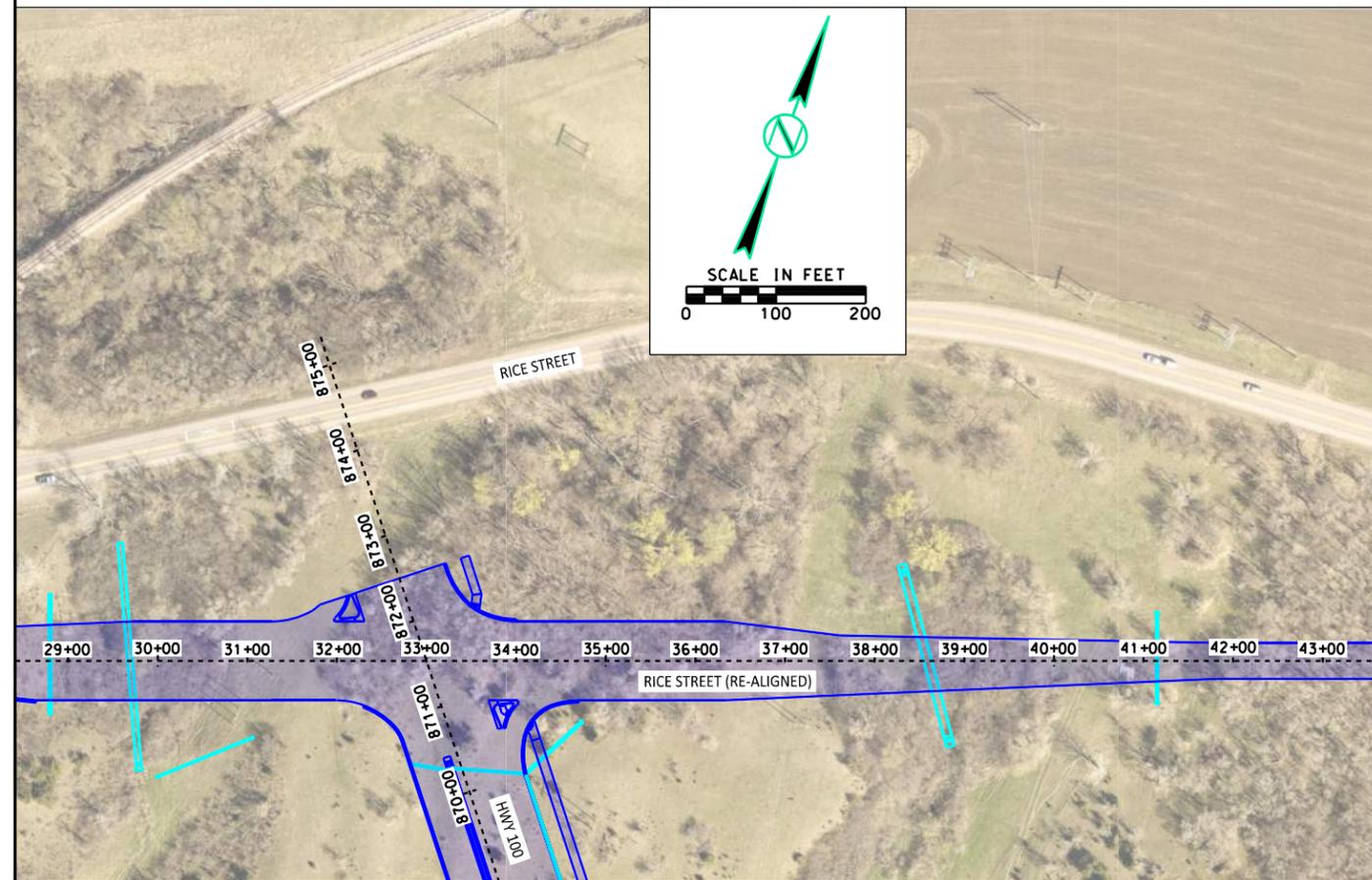
FILE: ...Phasing Site Layout-Rice Street
PLOT DATE: 06-09-2016
REV DATE: INITIAL:



THIS FIGURE IS TO ASSIST THE CONTRACTOR IN SHOWING THE LIMITS OF THE PROPOSED SURFACING, UTILITIES, TEMPORARY ASPHALT, AND CONCRETE BARRIER FOR EACH PHASE.

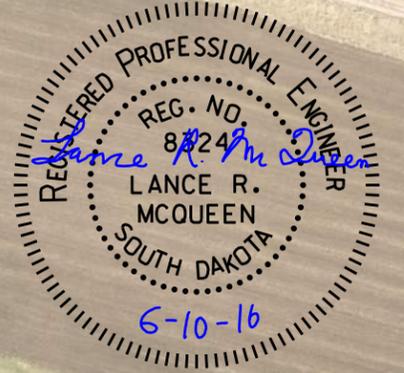
THE CONTRACTOR SHALL REVIEW EACH SECTION OF THE PLANS FOR ALL PROPOSED SITE ITEMS.

THE CONTRACTOR SHALL DETERMINE THE EXACT LIMITS OF THE PROPOSED SURFACING, UTILITIES AND TEMPORARY ASPHALT FOR EACH PHASE OF THE PROJECT PER THE CONTRACTOR'S CONSTRUCTION METHODS, PHASING AND ACCESS REQUIREMENTS.



LEGEND	PROPOSED SURFACING LIMITS	TEMPORARY ASPHALT LIMITS*	PROPOSED STORM SEWER LIMITS	TEMPORARY BARRIER LIMITS	QUANTITY
PHASE 1	[Blue hatched pattern]	[Cyan hatched pattern]	[Cyan horizontal lines]	[Cyan vertical lines]	(0 SEGMENTS) (0 FT)
PHASE 2	[Magenta hatched pattern]	[Magenta hatched pattern]	[Magenta horizontal lines]	[Magenta vertical lines]	(12 SEGMENTS) (150 FT)
PHASE 3	[Green hatched pattern]	[Green hatched pattern]	[Green horizontal lines]	[Green vertical lines]	(0 SEGMENTS) (0 FT)
PHASE 4	[Orange hatched pattern]	[Orange hatched pattern]	[Orange horizontal lines]	[Orange vertical lines]	(0 SEGMENTS) (0 FT)
PHASE 5	[Red hatched pattern]	[Red hatched pattern]	[Red horizontal lines]	[Red vertical lines]	(0 SEGMENTS) (0 FT)
					TOTAL (12 SEGMENTS) (150 FT)

* SEE SECTION B AND F FOR TEMPORARY WIDENING, SURFACING AND GRADING.



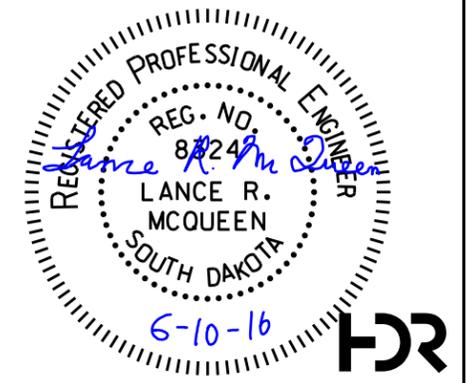
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C7	C22

FILE: ...Phase 1 cover sheet
PLOTING DATE: 06-09-2016

REV DATE:
INITIAL:

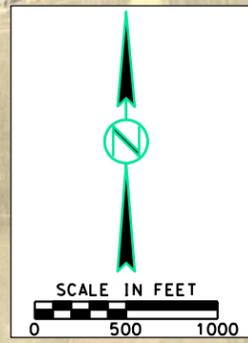
PHASE 1 COVER SHEET



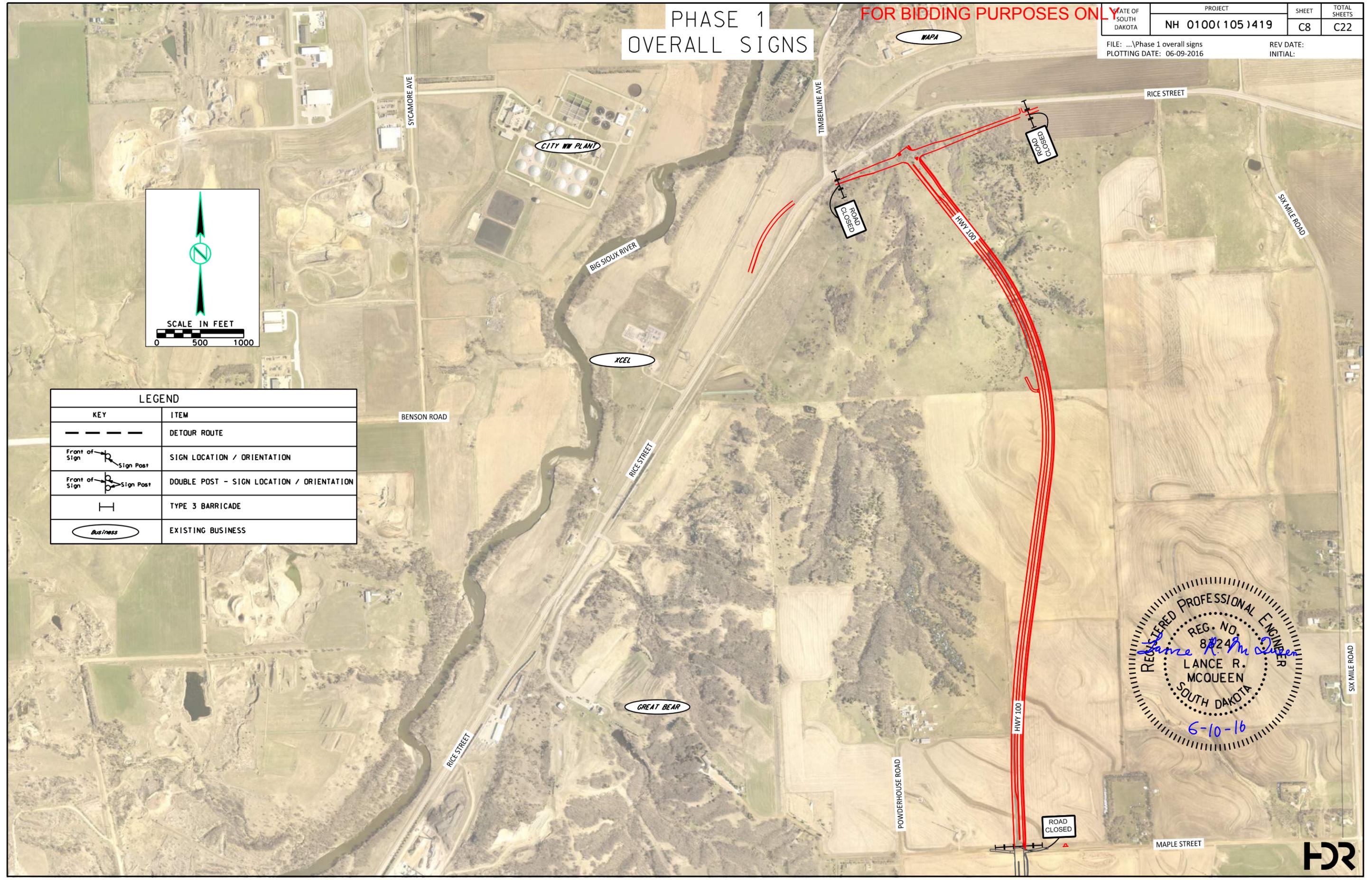
PHASE 1 OVERALL SIGNS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C8	TOTAL SHEETS C22
FILE: ...Phase 1 overall signs PLOTING DATE: 06-09-2016		REV DATE: INITIAL:	



LEGEND	
KEY	ITEM
	DETOUR ROUTE
	SIGN LOCATION / ORIENTATION
	DOUBLE POST - SIGN LOCATION / ORIENTATION
	TYPE 3 BARRICADE
	EXISTING BUSINESS



REGISTERED PROFESSIONAL ENGINEER
 REG. NO. 8324
Lance R. McQueen
 LANCE R. MCQUEEN
 SOUTH DAKOTA
 6-10-16



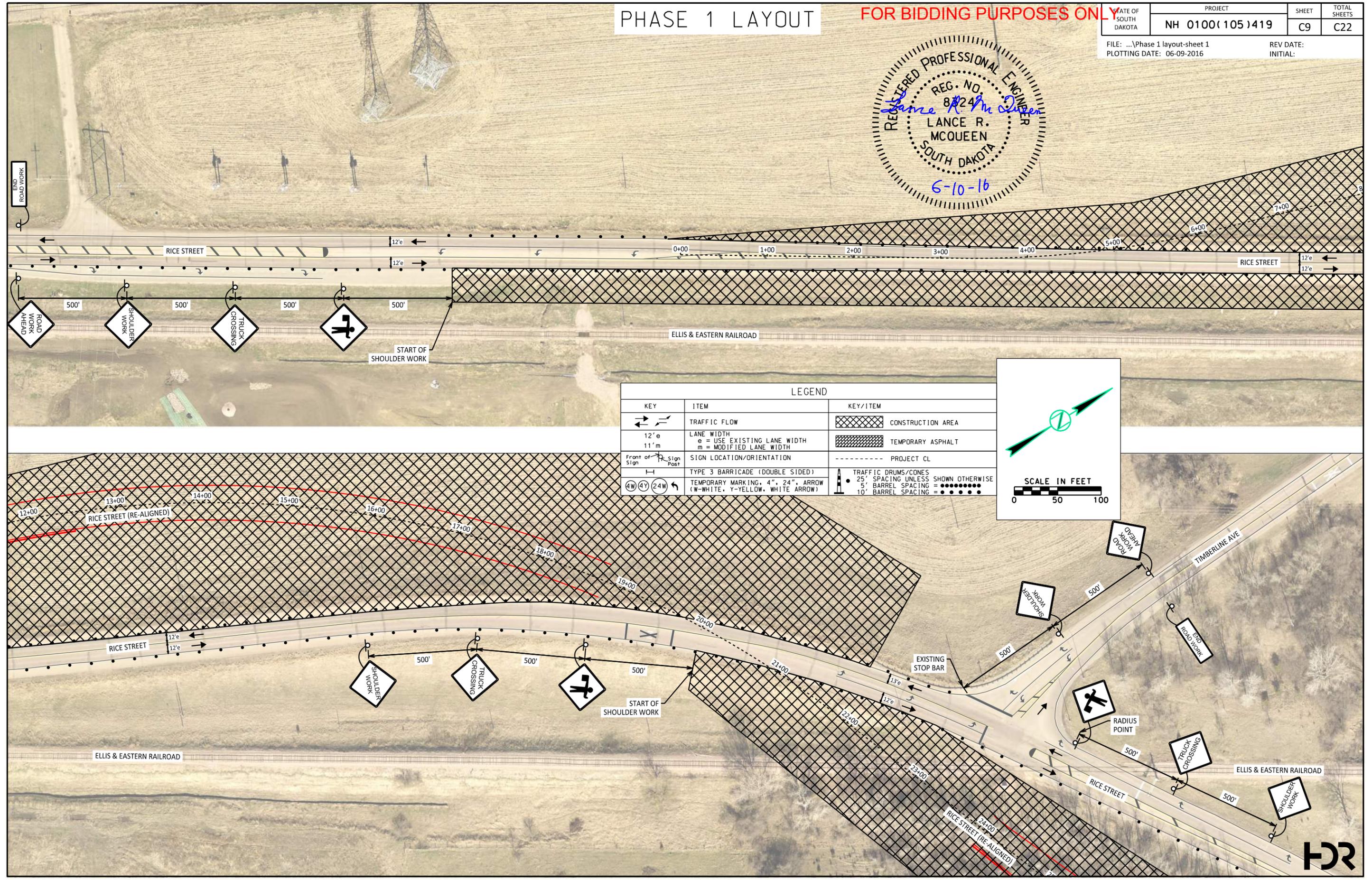
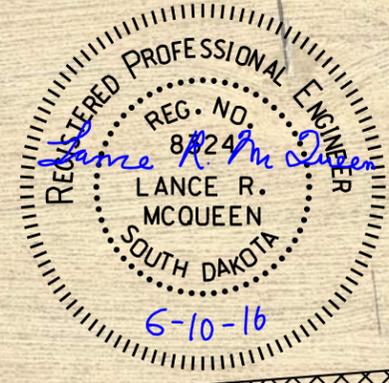
PHASE 1 LAYOUT

FOR BIDDING PURPOSES ONLY

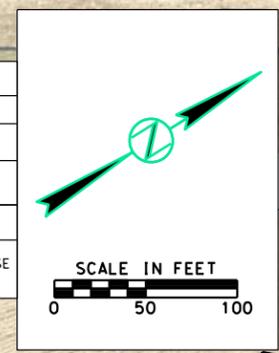
STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C9	TOTAL SHEETS C22
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FILE: ...Phase 1 layout-sheet 1
PLOT DATE: 06-09-2016

REV DATE:
INITIAL:



LEGEND		
← →	TRAFFIC FLOW	▨ CONSTRUCTION AREA
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH	▧ TEMPORARY ASPHALT
Front of Sign Sign Post	SIGN LOCATION/ORIENTATION	----- PROJECT CL
— — —	TYPE 3 BARRICADE (DOUBLE SIDED)	⚠ TRAFFIC DRUMS/CONES SHOWN OTHERWISE
(4W) (4Y) (24W)	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)	• 25' SPACING UNLESS SHOWN OTHERWISE
		• 5' BARREL SPACING = ●●●●●●●●
		• 10' BARREL SPACING = ●●●●●●●●●●

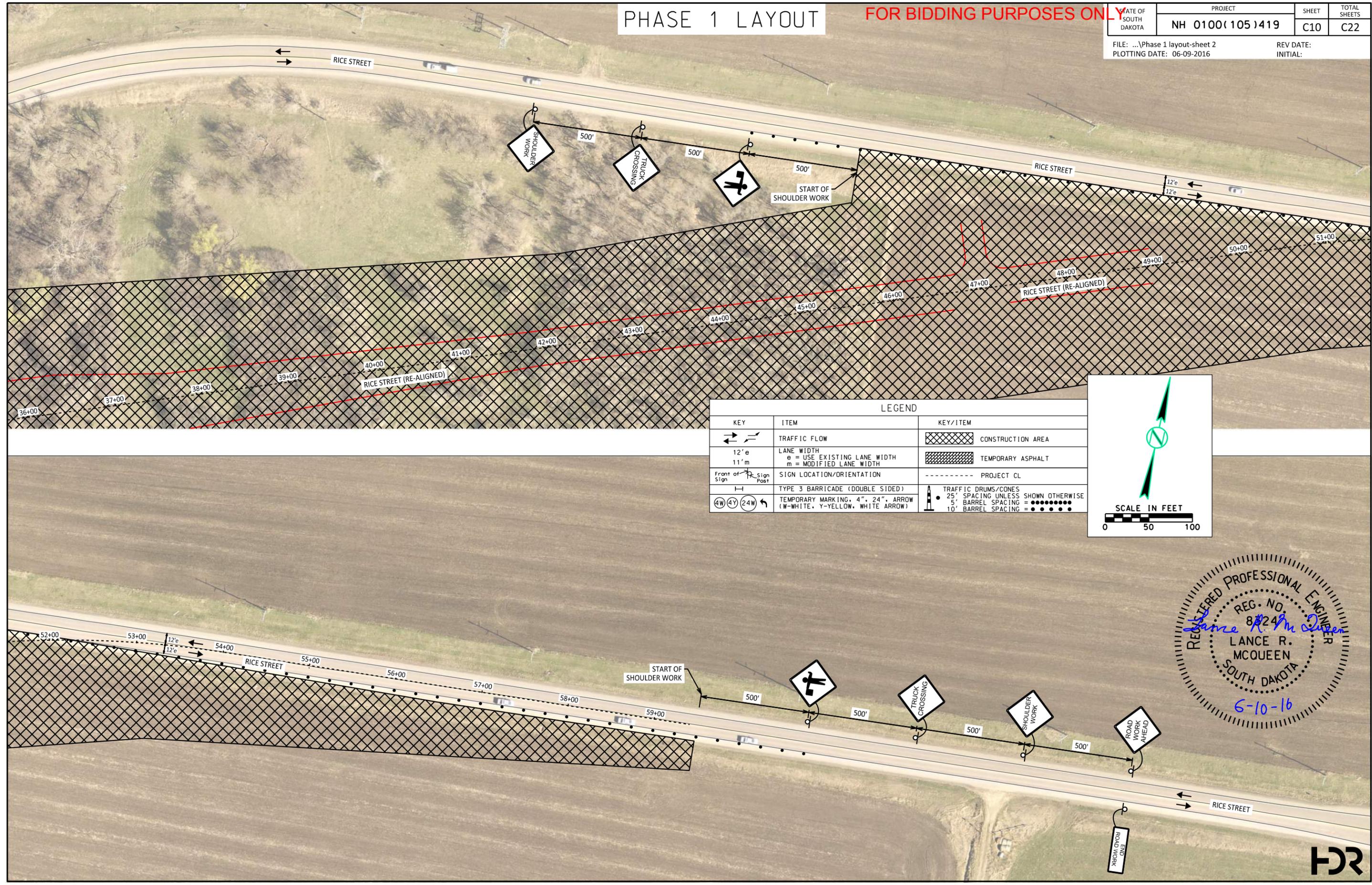


PHASE 1 LAYOUT

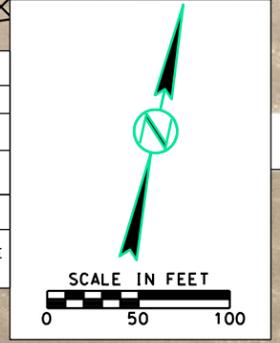
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C10	TOTAL SHEETS C22
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FILE: ...Phase 1 layout-sheet 2
PLOT DATE: 06-09-2016
REV DATE: INITIAL:



LEGEND			
	TRAFFIC FLOW		CONSTRUCTION AREA
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH		TEMPORARY ASPHALT
	SIGN LOCATION/ORIENTATION		PROJECT CL
	TYPE 3 BARRICADE (DOUBLE SIDED)		TRAFFIC DRUMS/CONES SHOWN OTHERWISE
	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)	25' BARREL SPACING =	
		5' BARREL SPACING =	
		10' BARREL SPACING =	



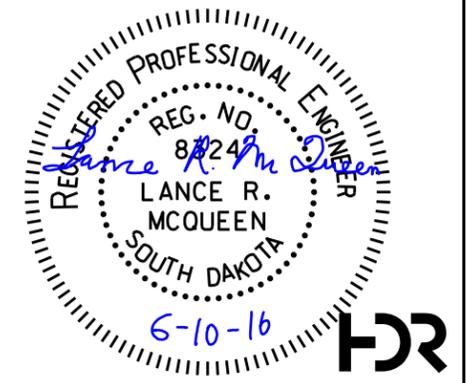
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C11	C22

FILE: ...Phase 2 cover sheet
PLOTING DATE: 06-09-2016

REV DATE:
INITIAL:

PHASE 2 COVER SHEET

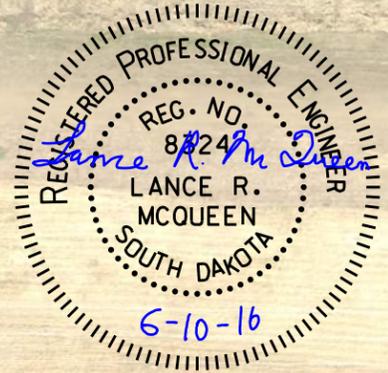


PHASE 2 LAYOUT

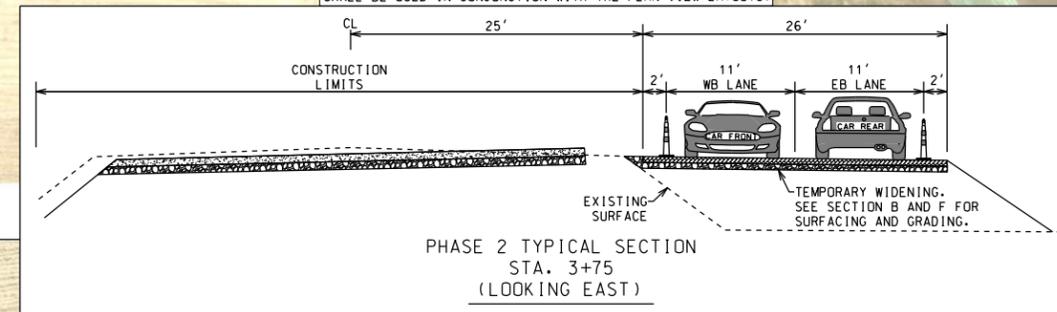
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C12	TOTAL SHEETS C22
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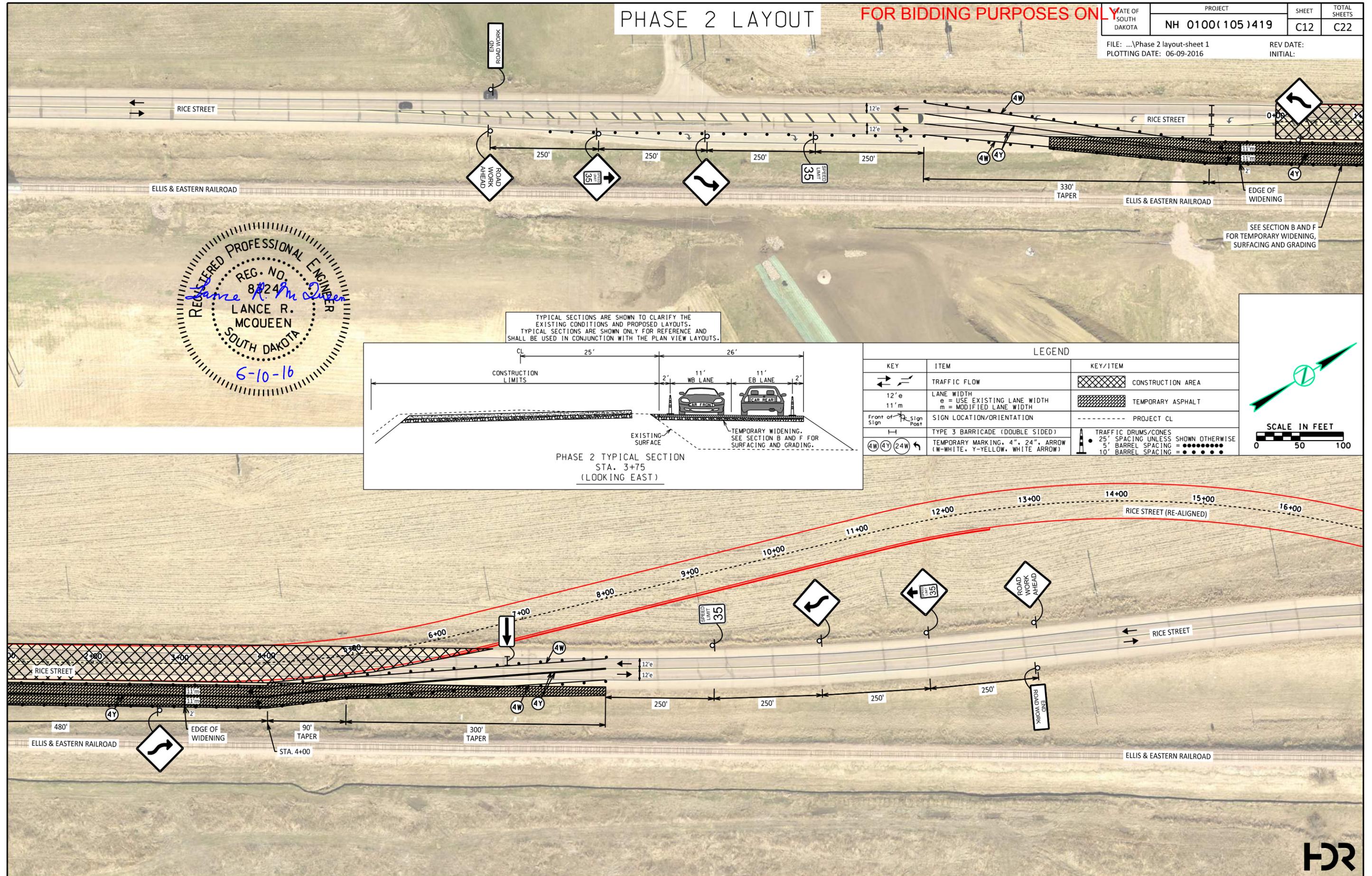
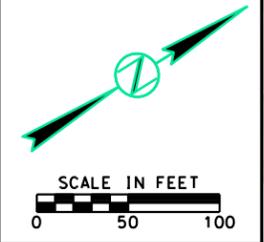
FILE: ...Phase 2 layout-sheet 1
PLOT DATE: 06-09-2016
REV DATE: INITIAL:



TYPICAL SECTIONS ARE SHOWN TO CLARIFY THE EXISTING CONDITIONS AND PROPOSED LAYOUTS. TYPICAL SECTIONS ARE SHOWN ONLY FOR REFERENCE AND SHALL BE USED IN CONJUNCTION WITH THE PLAN VIEW LAYOUTS.



LEGEND			
KEY	ITEM	KEY/ITEM	
	TRAFFIC FLOW		CONSTRUCTION AREA
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH		TEMPORARY ASPHALT
Front of Sign Post	SIGN LOCATION/ORIENTATION	- - - - -	PROJECT CL
	TYPE 3 BARRICADE (DOUBLE SIDED)		TRAFFIC DRUMS/CONES 25' SPACING UNLESS SHOWN OTHERWISE 5' BARREL SPACING = ●●●●● 10' BARREL SPACING = ●●●●●●●●●●
	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)		



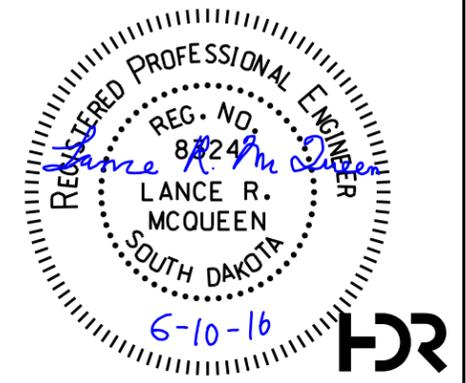
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C13	C22

FILE: ...Phase 3 cover sheet
PLOTING DATE: 06-09-2016

REV DATE:
INITIAL:

PHASE 3 COVER SHEET

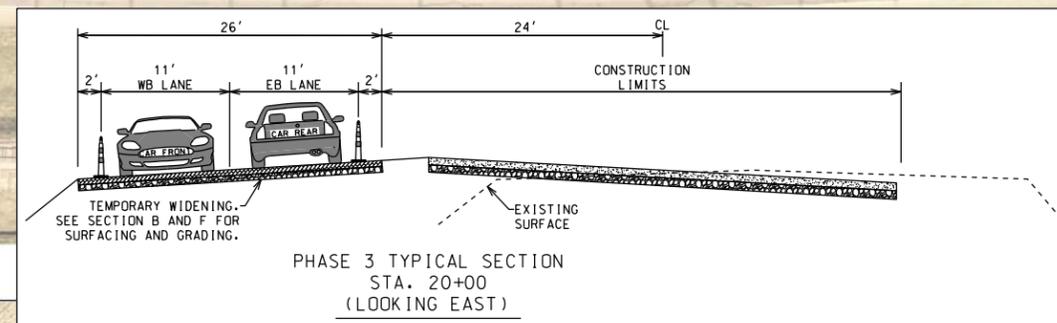
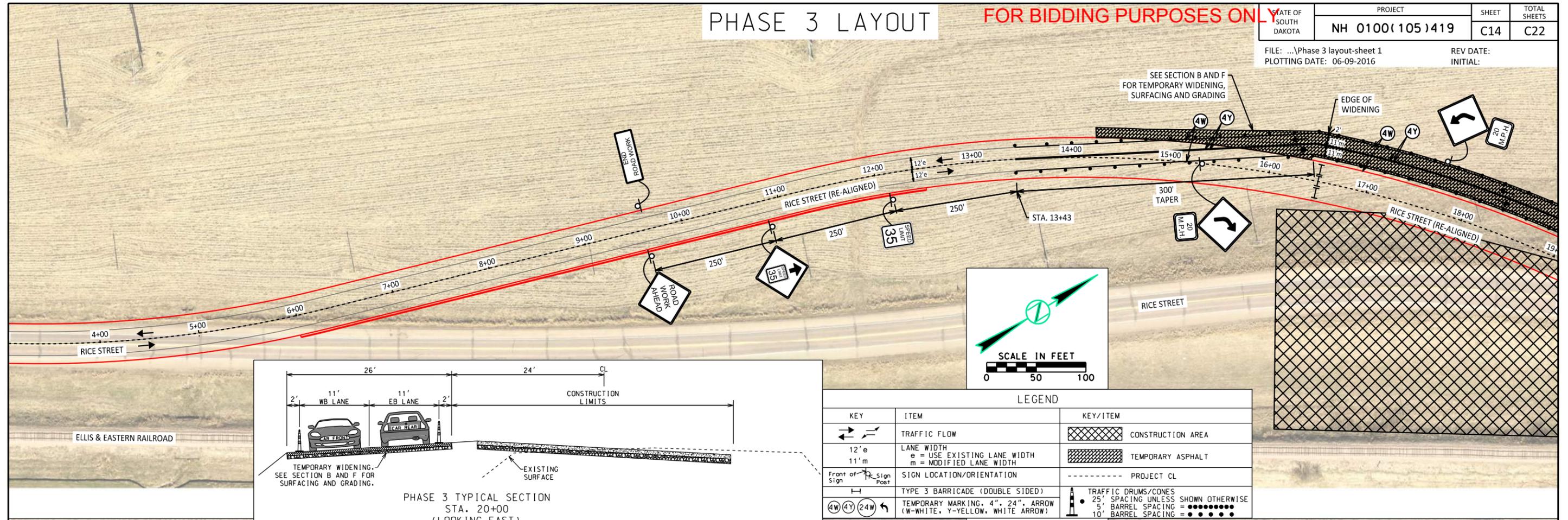


PHASE 3 LAYOUT

FOR BIDDING PURPOSES ONLY

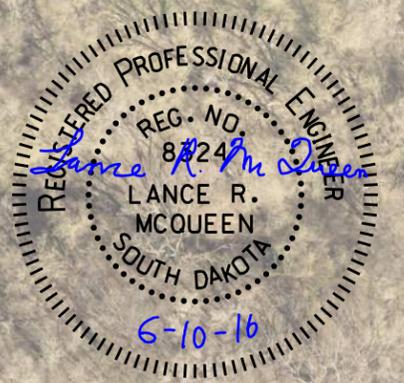
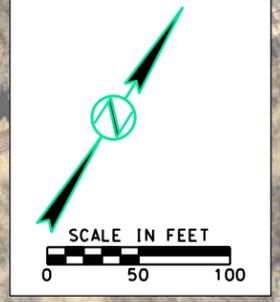
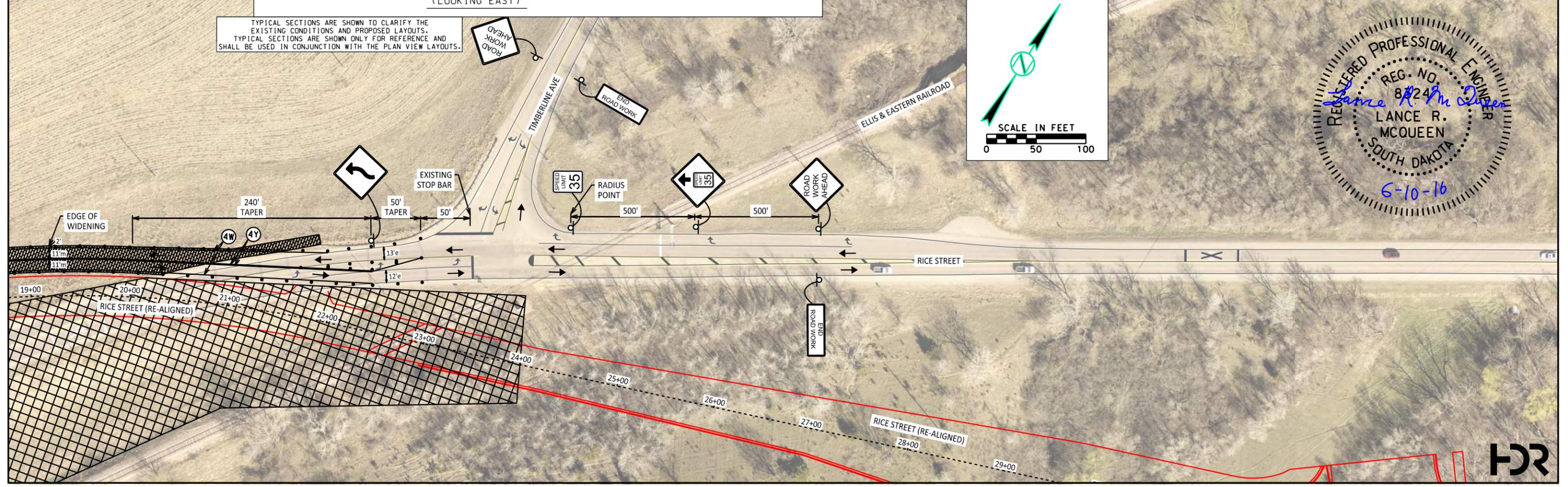
STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C14	TOTAL SHEETS C22
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FILE: ...Phase 3 layout-sheet 1
PLOT DATE: 06-09-2016
REV DATE: INITIAL:



LEGEND			
← →	TRAFFIC FLOW	▨	CONSTRUCTION AREA
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH	▨	TEMPORARY ASPHALT
Front of Sign Post	SIGN LOCATION/ORIENTATION	---	PROJECT CL
— —	TYPE 3 BARRICADE (DOUBLE SIDED)	●	TRAFFIC DRUMS/CONES 25' SPACING UNLESS SHOWN OTHERWISE 5' BARREL SPACING = ●●●●● 10' BARREL SPACING = ●●●●●●●●
(4W)(4Y)(24W)	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)		

TYPICAL SECTIONS ARE SHOWN TO CLARIFY THE EXISTING CONDITIONS AND PROPOSED LAYOUTS. TYPICAL SECTIONS ARE SHOWN ONLY FOR REFERENCE AND SHALL BE USED IN CONJUNCTION WITH THE PLAN VIEW LAYOUTS.



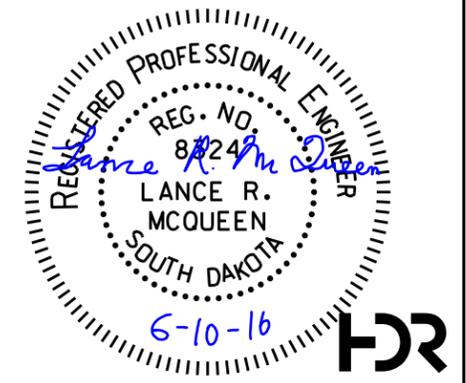
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C15	C22

FILE: ...Phase 4 cover sheet
PLOTTING DATE: 06-09-2016

REV DATE:
INITIAL:

PHASE 4 COVER SHEET



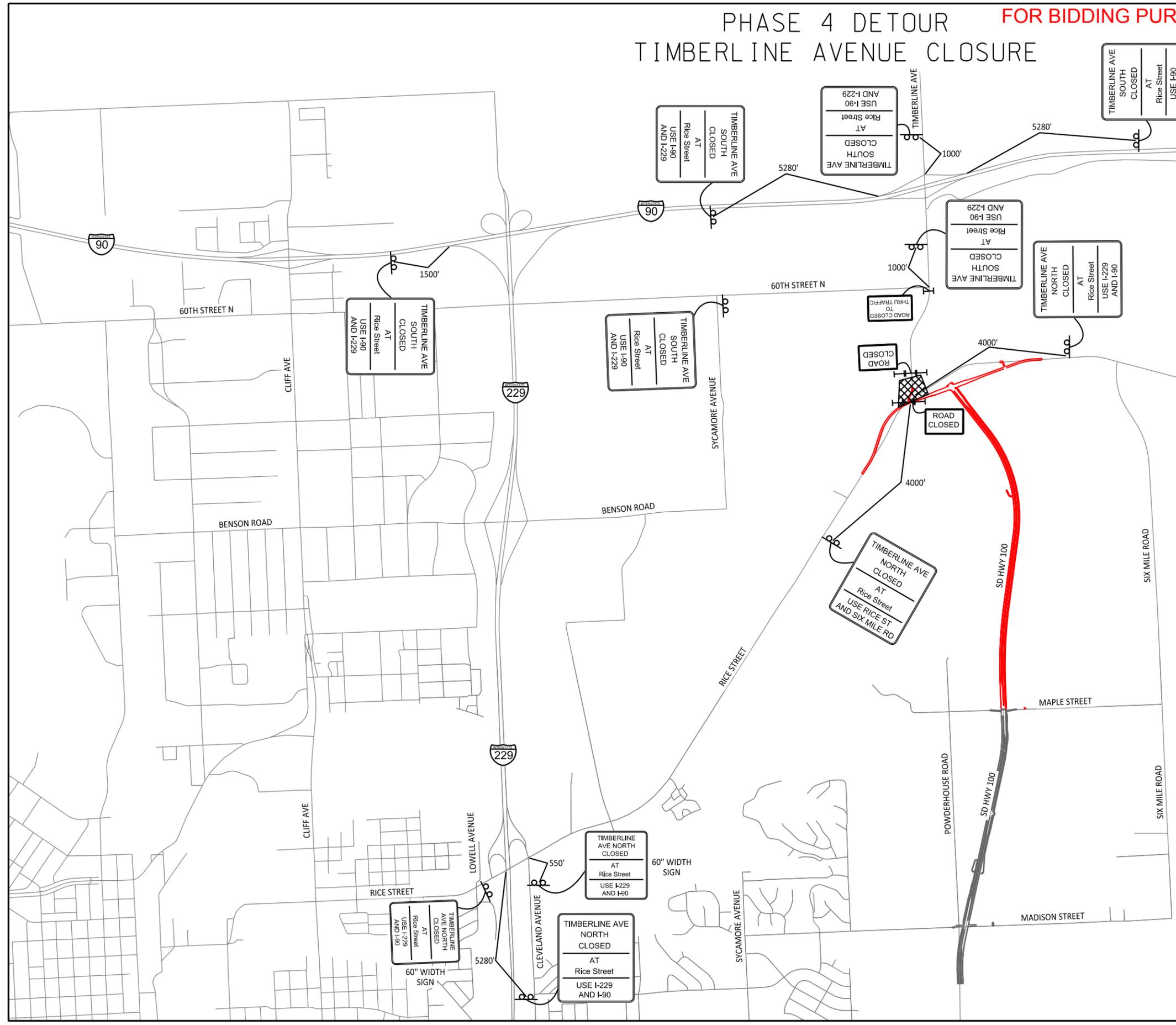
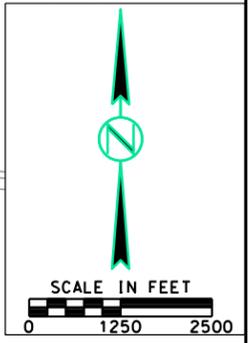
PHASE 4 DETOUR TIMBERLINE AVENUE CLOSURE

FOR BIDDING PURPOSES ONLY

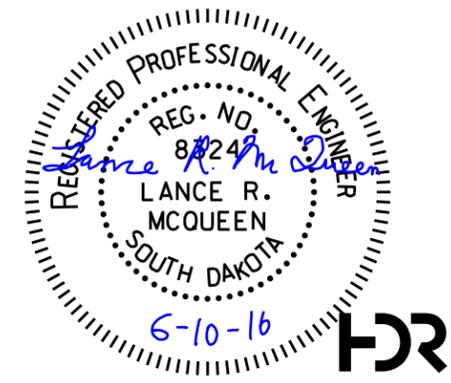
STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C16	TOTAL SHEETS C22
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FILE: ...Phase 4 detour
PLOTING DATE: 06-09-2016

REV DATE:
INITIAL:



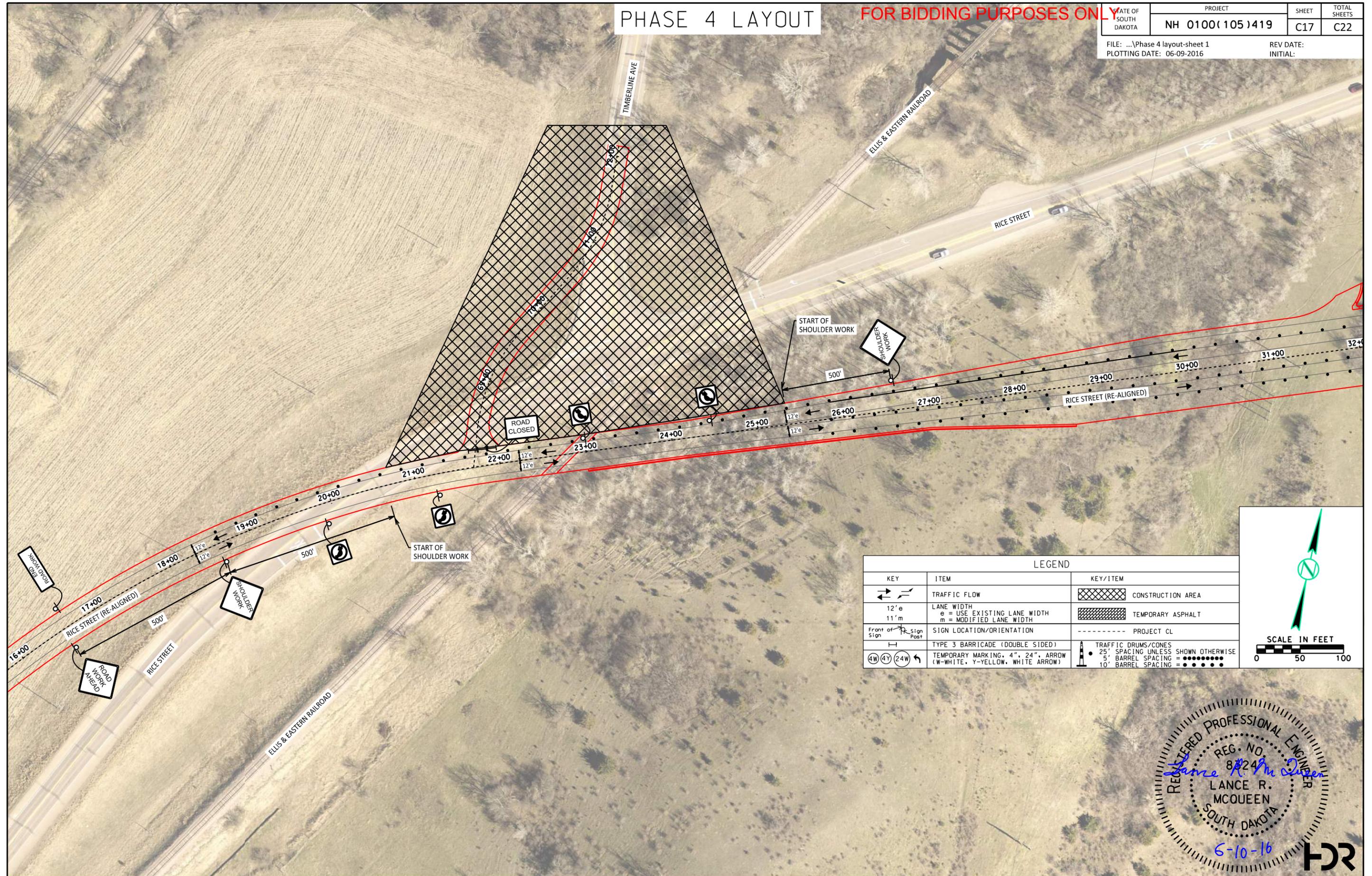
LEGEND	
KEY	ITEM
— — — — —	DETOUR ROUTE
	SIGN LOCATION / ORIENTATION
	DOUBLE POST - SIGN LOCATION / ORIENTATION
	TYPE 3 BARRICADE
	CONSTRUCTION AREA



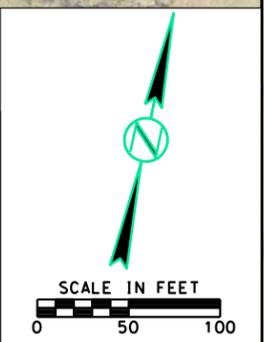
PHASE 4 LAYOUT

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C17	C22
FILE: ...Phase 4 layout-sheet 1		REV DATE:	
PLOTTING DATE: 06-09-2016		INITIAL:	



LEGEND			
KEY	ITEM	KEY/ITEM	
	TRAFFIC FLOW		CONSTRUCTION AREA
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH		TEMPORARY ASPHALT
Front of Sign Post	SIGN LOCATION/ORIENTATION	-----	PROJECT CL
	TYPE 3 BARRICADE (DOUBLE SIDED)		TRAFFIC DRUMS/CONES • 25' SPACING UNLESS SHOWN OTHERWISE • 5' BARREL SPACING = ●●●●●●●● • 10' BARREL SPACING = ●●●●●●●●●●
	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)		



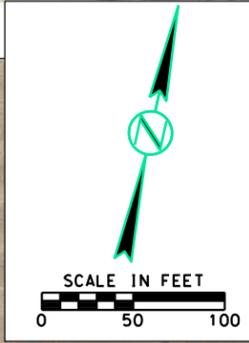
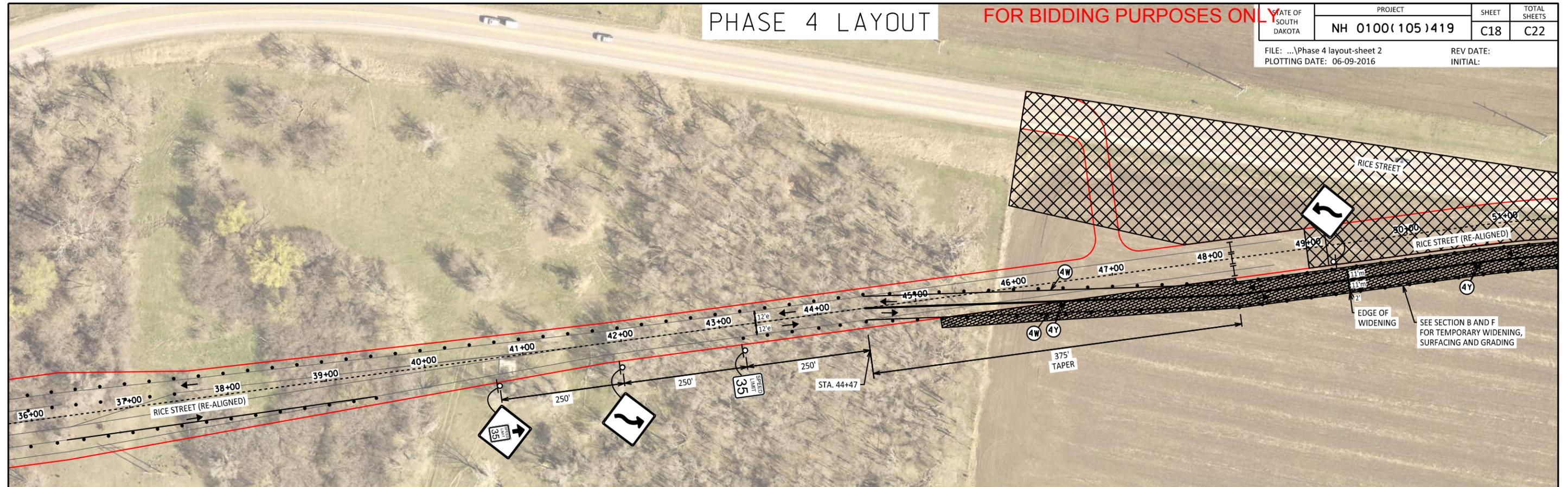
REGISTERED PROFESSIONAL ENGINEER
 REG. NO. 8324
Lance R. McQueen
 LANCE R. MCQUEEN
 SOUTH DAKOTA
 6-10-16



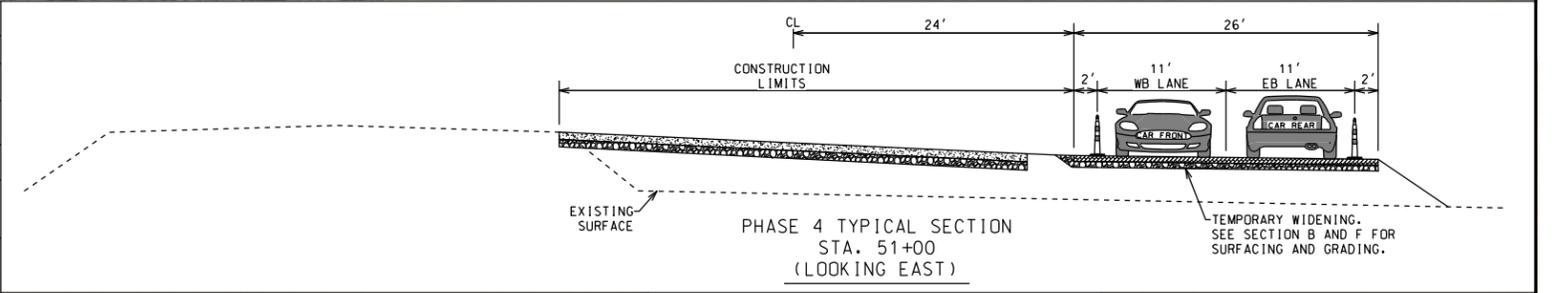
PHASE 4 LAYOUT

FOR BIDDING PURPOSES ONLY

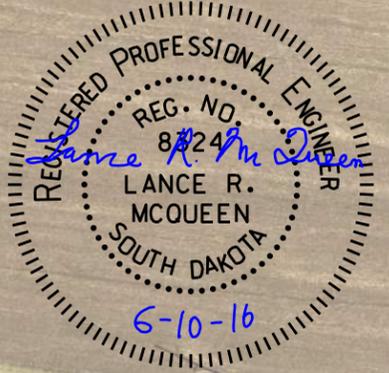
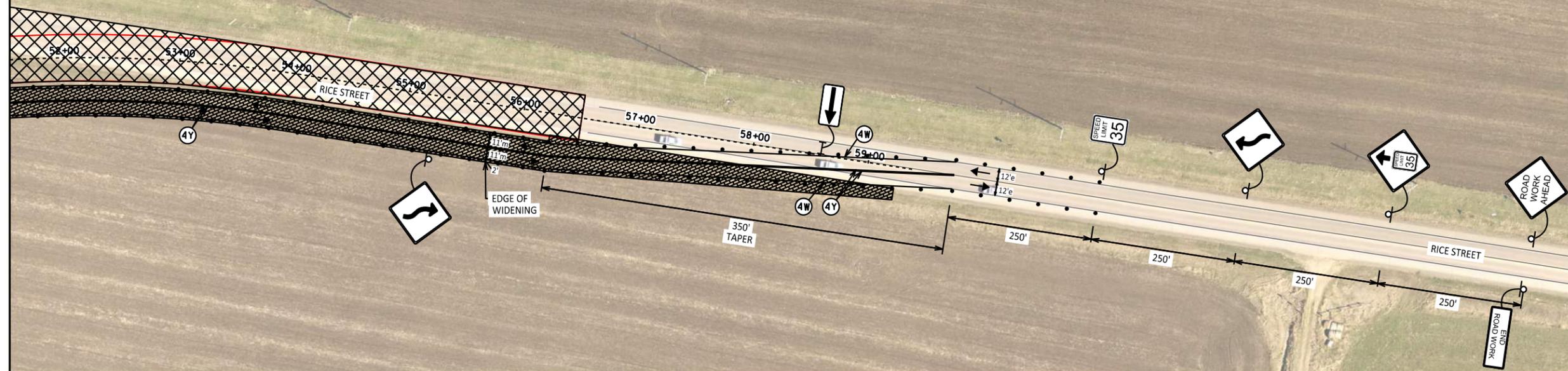
STATE OF SOUTH DAKOTA	PROJECT NH 0100(105)419	SHEET C18	TOTAL SHEETS C22
FILE: ...Phase 4 layout-sheet 2 PLOTTING DATE: 06-09-2016		REV DATE: INITIAL:	



LEGEND	
KEY	ITEM
→	TRAFFIC FLOW
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH
Front of Sign Sign Post	SIGN LOCATION/ORIENTATION
— —	TYPE 3 BARRICADE (DOUBLE SIDED)
(4W) (4Y) (24W)	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)
⦿	TRAFFIC DRUMS/CONES 25' SPACING UNLESS SHOWN OTHERWISE
•••••	5' BARREL SPACING
••••••••	10' BARREL SPACING
▨	CONSTRUCTION AREA
▩	TEMPORARY ASPHALT
---	PROJECT CL



EXISTING CONDITIONS AND PROPOSED LAYOUTS. TYPICAL SECTIONS ARE SHOWN ONLY FOR REFERENCE AND SHALL BE USED IN CONJUNCTION WITH THE PLAN VIEW LAYOUTS.



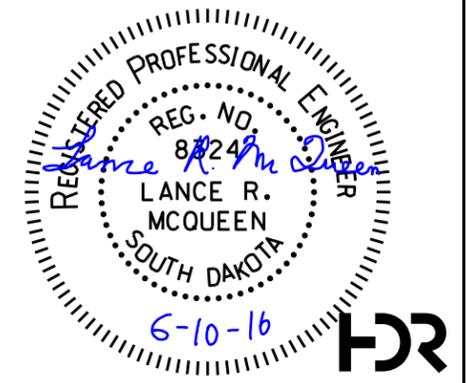
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C19	C22

FILE: ...Phase 5 cover sheet
PLOTTING DATE: 06-09-2016

REV DATE:
INITIAL:

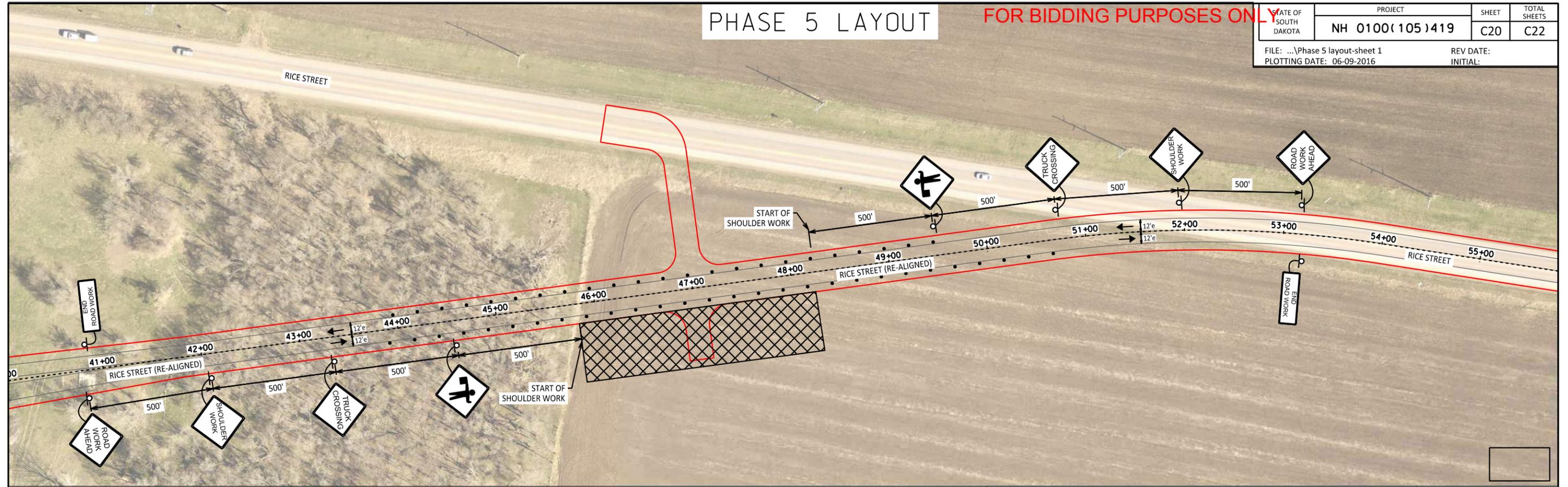
PHASE 5 COVER SHEET



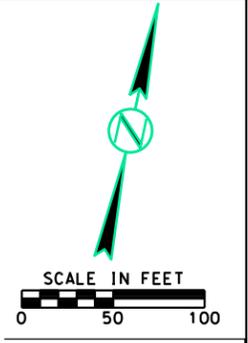
PHASE 5 LAYOUT

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0100(105)419	C20	C22
FILE: ...Phase 5 layout-sheet 1		REV DATE:	
PLOTING DATE: 06-09-2016		INITIAL:	



LEGEND			
→	TRAFFIC FLOW	▨	CONSTRUCTION AREA
12'e 11'm	LANE WIDTH e = USE EXISTING LANE WIDTH m = MODIFIED LANE WIDTH	▨	TEMPORARY ASPHALT
Front of Sign Post	SIGN LOCATION/ORIENTATION	-----	PROJECT CL
⊥	TYPE 3 BARRICADE (DOUBLE SIDED)	⚠	TRAFFIC DRUMS/CONES
(4W) (4Y) (24W)	TEMPORARY MARKING, 4", 24", ARROW (W-WHITE, Y-YELLOW, WHITE ARROW)	•	25' SPACING UNLESS SHOWN OTHERWISE
		•••••	5' BARREL SPACING
		••••••••	10' BARREL SPACING



REGISTERED PROFESSIONAL ENGINEER
 REG. NO. 8724
Lance R. McQueen
 LANCE R. MCQUEEN
 SOUTH DAKOTA
 6-10-16



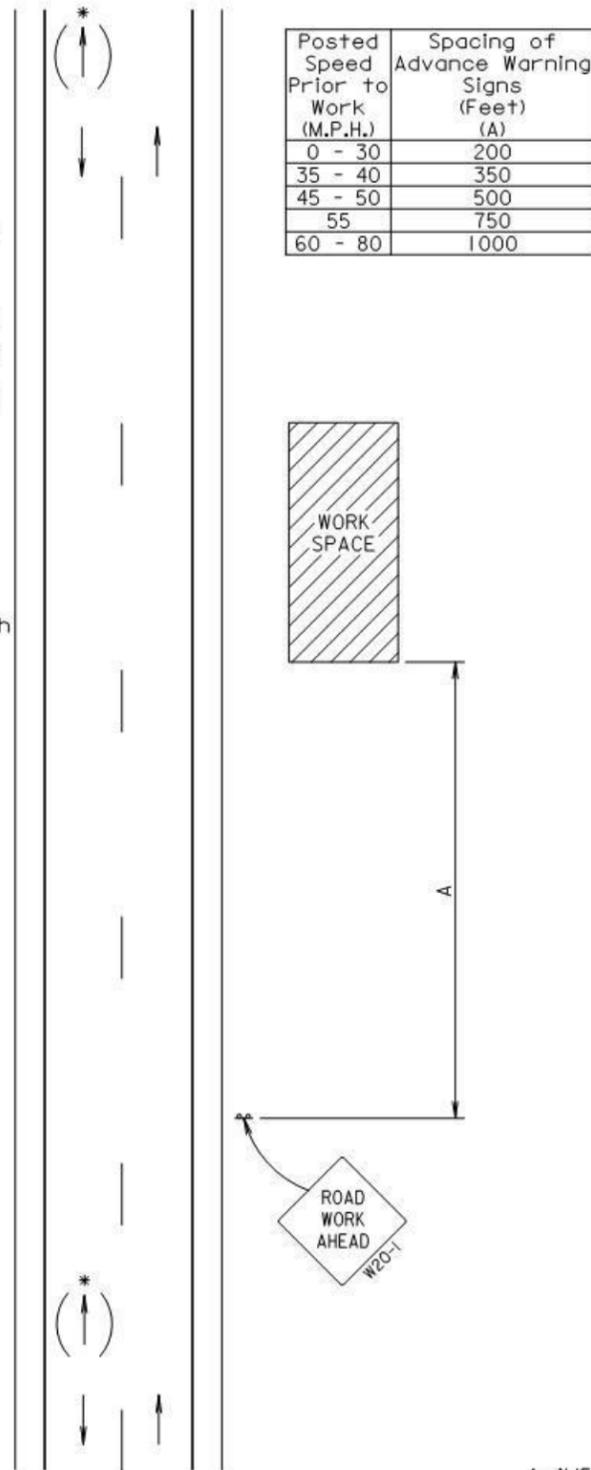
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

The signs illustrated shall be used where there are distracting situations; such as: vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations.

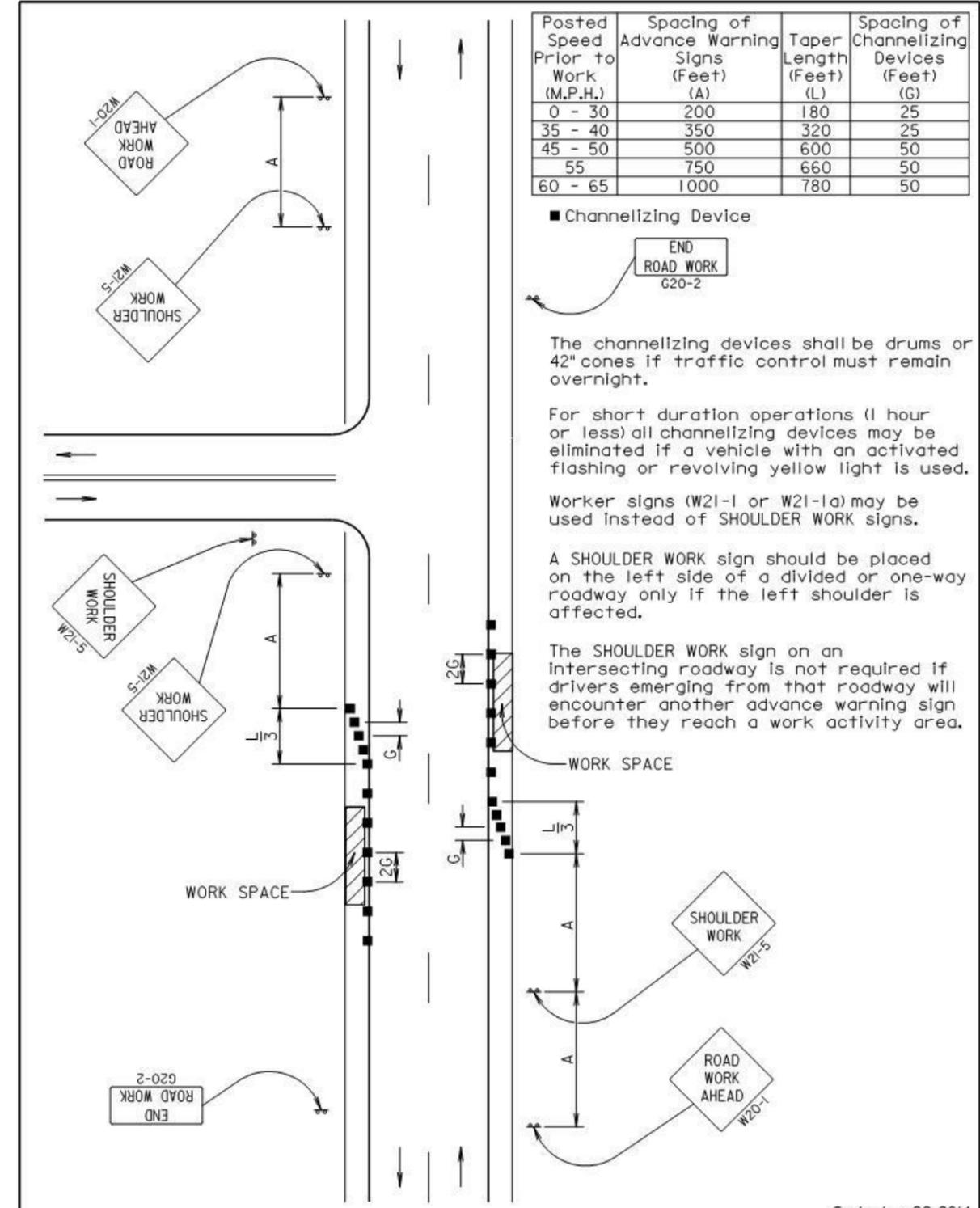
The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

* If the work space is on a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.

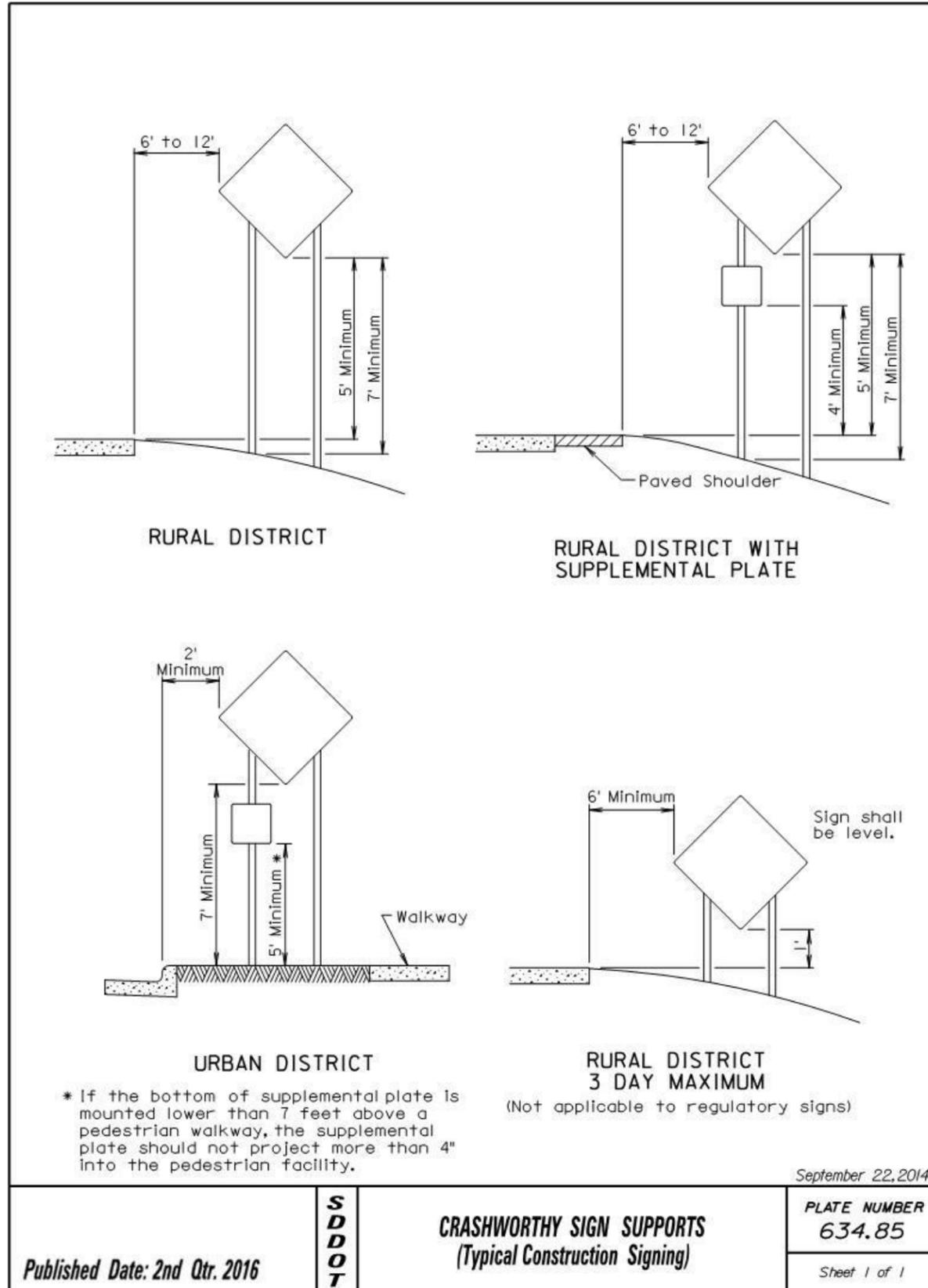


April 15, 2015

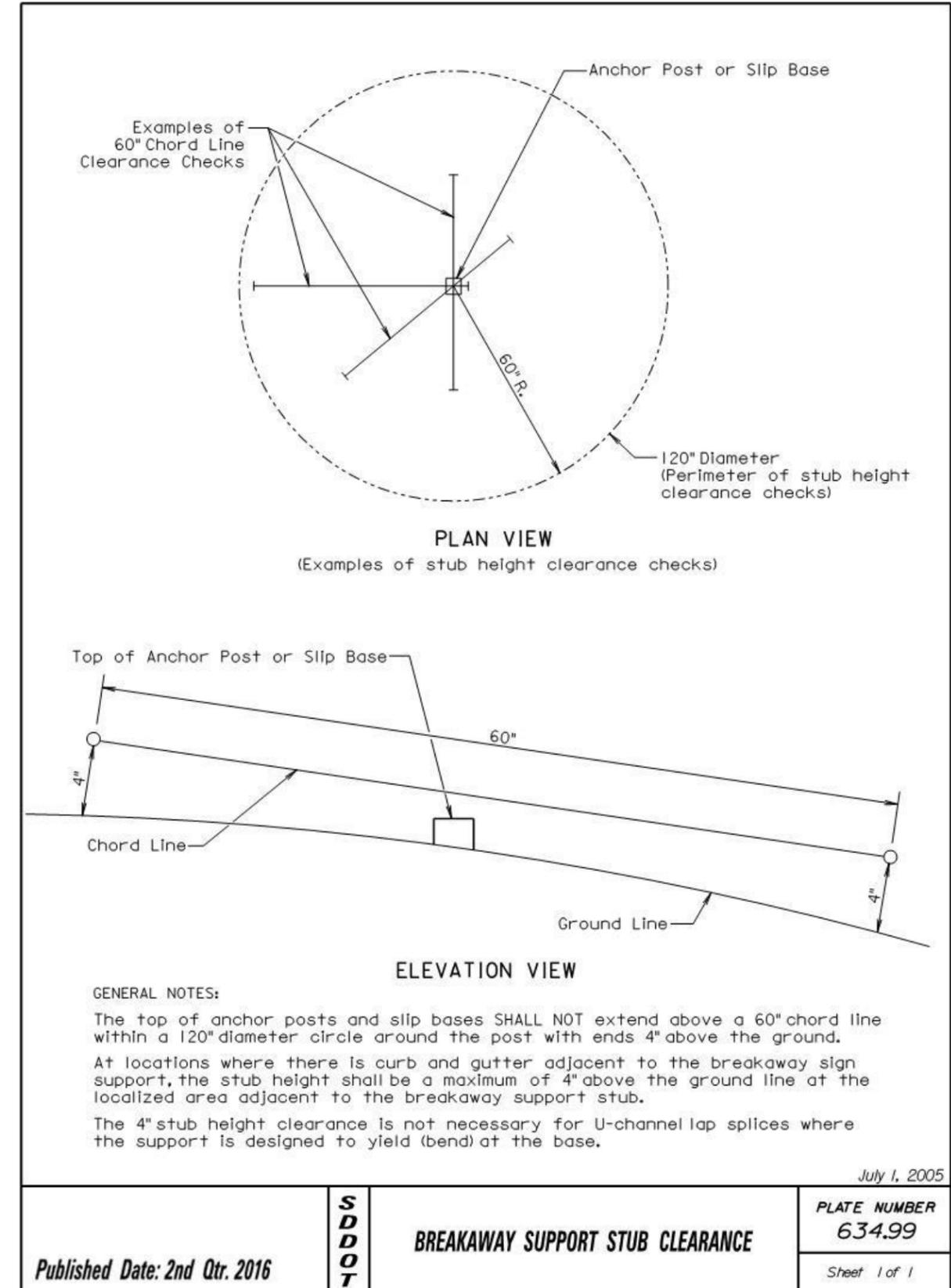


September 22, 2014





Published Date: 2nd Qtr. 2016	S D D O T	CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
			Sheet 1 of 1



Published Date: 2nd Qtr. 2016	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1