

SIGNAL PHASING	
E.B. LEFT - MAJOR STREET	Ø1
E.B. THRU - MAJOR STREET w/ PED. SOUTH SIDE	Ø6 + PED.
W.B. LEFT - MAJOR STREET	Ø5
W.B. THRU - MAJOR STREET w/ PED. NORTH SIDE	Ø2 + PED.
N.B. - MINOR STREET w/ PED. EAST SIDE	Ø4 + PED.
S.B. - MINOR STREET w/ PED. WEST SIDE	Ø8 + PED.

- The controller unit shall be NEMA configuration.
- The cabinet back panel shall be completely wired with harnesses for 8-phase operation with four overlaps and four concurrent pedestrian phases.

**TRAFFIC SIGNAL PRECONSTRUCTION NOTE:**

Unless noted otherwise, all traffic signal work on this project shall be in accordance with St. Louis County Standard Specifications for Road and Bridge Construction, Division 900, Section 904 - St. Louis County Traffic Signals; and with "St. Louis County Standard Drawings - Traffic Signal Details". The Contractor shall have said references on the job site at all times during construction/installation of the signalization equipment.

The Section 904 specifications in effect for this project will be those available for viewing on the date the signal plans were approved.

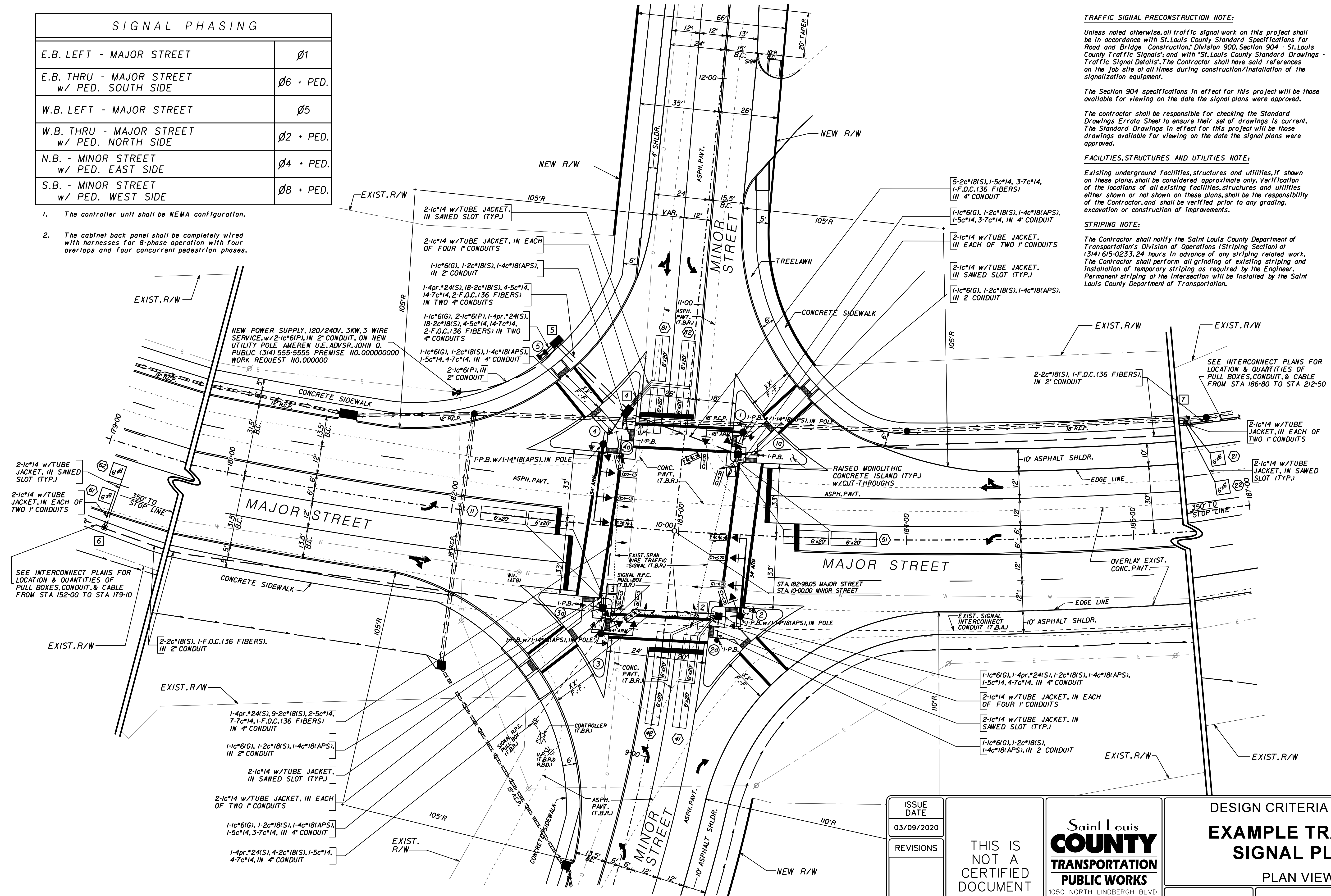
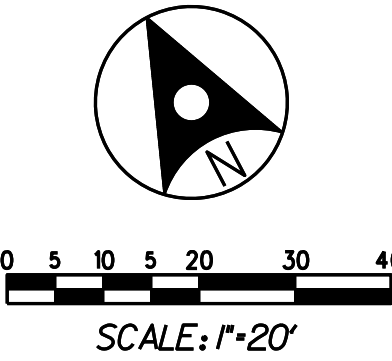
The contractor shall be responsible for checking the Standard Drawings Errata Sheet to ensure their set of drawings is current. The Standard Drawings in effect for this project will be those drawings available for viewing on the date the signal plans were approved.

**FACILITIES, STRUCTURES AND UTILITIES NOTE:**

Existing underground facilities, structures and utilities, if shown on these plans, shall be considered approximate only. Verification of the locations of all existing facilities, structures and utilities either shown or not shown on these plans, shall be the responsibility of the Contractor, and shall be verified prior to any grading, excavation or construction of improvements.

**STRIPING NOTE:**

The Contractor shall notify the Saint Louis County Department of Transportation's Division of Operations (Striping Section) at (314) 615-0233, 24 hours in advance of any striping related work. The Contractor shall perform all grinding of existing striping and installation of temporary striping as required by the Engineer. Permanent striping at the intersection will be installed by the Saint Louis County Department of Transportation.



ISSUE DATE 03/09/2020	THIS IS NOT A CERTIFIED DOCUMENT	<p>Saint Louis <b>COUNTY</b> TRANSPORTATION PUBLIC WORKS 1050 NORTH LINDBERGH BLVD. ST. LOUIS, MISSOURI 63132</p>	DESIGN CRITERIA MANUAL		
REVISIONS			<b>EXAMPLE TRAFFIC SIGNAL PLAN</b> PLAN VIEW		
			EFFECTIVE 05/01/2020	SHEET 1 OF 2	DRAWING <b>5.7</b>

ITEM NO.	DESCRIPTION	UNIT	QUANT.
904-02.13	Signal Head, Type 35	EA.	2
904-02.34	Signal Head, Type 34S	EA.	2
904-05.43	Signal Head, Type 3B, Terminal Compartment, and Astro Bracket	EA.	6
904-05.44	Signal Head, Type 4B, Terminal Compartment, and Astro Bracket	EA.	2
904-24.01	Signal Head, Type 1S, Pedestrian	EA.	8
904-28.07	Post, Signal, w/Sq. Pedestal Base and Post Cap, 7' Maximum Total	EA.	4
904-29.14	Post, Extension, 4'-1/2" O.D. x 14', Aluminum, w/Mounting Hardware	EA.	1
904-32.14	19' Pole, w/14' Most Arm, Steel	EA.	1
904-32.16	19' Pole, w/16' Most Arm, Steel	EA.	1
904-32.34	19' Pole, w/34' Most Arm, Steel	EA.	2
904-43.88	Controller, Fully Actuated, (8 Phase Timer, in Aluminum Cabinet Approx.	EA.	1
904-43.88	55"H x 44"W x 26"D, Wired for 8 Phase Operation w/Internal Fiber Optic		
904-49.22	Detector, Pedestrian Push Button, APS, Freezeproof	EA.	8
904-49.35	Detector, Vehicle Induction Loop, Cord Rack Mtg., 2 Channel,	EA.	6
904-49.51	w/Delay and Extension Timing and Relay Outputs Pan Tilt Zoom (PTZ) Internet Protocol Video Surveillance Camera	EA.	1
904-49.52	Misc. Cables Softwore License, PTZ Camera	EA.	1
904-51.00	Conduit, 1"	L.F.	80
904-52.00	Conduit, 2"	L.F.	801
904-54.00	Conduit, 4"	L.F.	345
904-82.06	Cable, Power, #6 Gauge, 1 Conductor	L.F.	170
904-83.05	Cable, Signal, #14 Gauge, 5 Conductor	L.F.	690
904-83.07	Cable, Signal, #14 Gauge, 7 Conductor	L.F.	2,700
904-84.00	Wire, Stranded Ground, #6 Gauge	L.F.	160
904-85.05	Cable, Detector Loop, #14 Gauge, 1 Conductor, w/Tube Jacket	L.F.	260
904-85.06	(in Conduit and Pull Boxes) Cable, Detector Loop, #14 Gauge, 1 Conductor, w/Tube Jacket	L.F.	3,240
904-85.18	(in Sowed Slot) Cable, Push Button and/or Detector Loop Lead-in,	L.F.	4,280
904-85.34	*18 Gauge, 2 Conductor (Shielded) Cable, Communication, #18 Gauge, 4 Conductor (APS)	L.F.	200
904-85.36	and 6 Multi-Mode) Cable, Communication, Fiber Optic, 36 Fibers (30 Single-Mode	L.F.	1,080
904-85.81	*24 Gauge, 4 Pair (Shielded) Cable, Communication, Power, PTZ Camera, Video Detection Camera,	L.F.	270
904-86.01	Power Supply Assembly, on Wood Utility Pole, 120/240 Volt	EA.	1
904-88.01	Pull Box, Single, Concrete	EA.	3
904-88.02	Pull Box, Double, Concrete	EA.	2
904-89.17	Preformed Pull Box, (17"W x 30"L x 26"Min. H) Reinforced Polymer	EA.	1
904-90.17	Concrete w/1" Concrete Apron Preformed Pull Box, (17"W x 30"L x 26"Min. H) Reinforced Polymer	EA.	1
904-91.43	Base, Type P-3, Concrete	EA.	4
904-91.56	Base, Type B-6, Concrete	EA.	2
904-91.57	Base, Type B-7, Concrete	EA.	2
904-91.88	Base, Type D-8PH, Concrete	EA.	1
904-95.30	Removal of Preformed Pull Box	EA.	2
904-96.21	Removal of Concrete Controller Base	EA.	1
904-97.20	Removal of Signal Equipment (Intersection)	EA.	1
904-97.43	Removal of Power Supply Assembly	EA.	1

BOX NUMBER	CONCRETE	REINFORCED PLASTIC MORTAR	REINFORCED W/CONC. APRON	LOCATION
1	SINGLE			183+24.29' 35.22'
2	SINGLE			183+19.55' 36.33'
3	SINGLE			182+69.92' 36.29'
4	DOUBLE			182+72.98' 50.70'
5	DOUBLE			182+37.82' 78.13'
6		(17"Wx30"Lx26"MIN. H)		179+09.22' 37.85'
7		(17"Wx30"Lx26"MIN. H)		186+77.31' 40.21'

\* St. Louis County may require stationing and offset of pullboxes to be included in the schedule as shown above.

BASE NO.	CONCRETE	MAST ARM OR POST TYPE	SIGNAL EQUIPMENT TYPE	STATION	OFFSET
1	B-6	STEEL TRAFFIC SIGNAL POLE w/16' ARM	1 - 38 W/BP (ALL 12") 2 - 1S PED. (APPROX. 16"x18") 1 - PUSH BUTTON	183+26.11'	45.04'
1a	P-3	(MAXIMUM TOTAL HEIGHT 7') ALUMINUM SIGNAL POST w/SQUARE BASE PEDESTAL AND POST CAP	1 - PUSH BUTTON	183+33.88'	35.38'
2	B-7	STEEL TRAFFIC SIGNAL POLE w/34' ARM & w/14' ALUMINUM POST EXTENSION	1 - 48 W/BP (ALL 12") 2 - 38 W/BP (ALL 12") 2 - 3S W/BP (ALL 12") 1 - PTZ VIDEO SURVEILLANCE CAMERA	183+28.86'	35.61'
2a	P-3	(MAXIMUM TOTAL HEIGHT 7') ALUMINUM SIGNAL POST w/SQUARE BASE PEDESTAL AND POST CAP	1 - PUSH BUTTON	183+19.35'	46.80'
3	B-6	STEEL TRAFFIC SIGNAL POLE w/14' ARM	1 - 38 W/BP (ALL 12") 2 - 1S PED. (APPROX. 16"x18") 1 - PUSH BUTTON	182+70.14'	47.50'
3a	P-3	(MAXIMUM TOTAL HEIGHT 7') ALUMINUM SIGNAL POST w/SQUARE BASE PEDESTAL AND POST CAP	1 - PUSH BUTTON	182+60.12'	35.52'
4	B-7	STEEL TRAFFIC SIGNAL POLE w/34' ARM	1 - 48 W/BP (ALL 12") 2 - 38 W/BP (ALL 12") 2 - 3S W/BP (ALL 12") 2 - 1S PED. (APPROX. 16"x18")	182+63.66'	35.49'
4a	P-3	(MAXIMUM TOTAL HEIGHT 7') ALUMINUM SIGNAL POST w/SQUARE BASE PEDESTAL AND POST CAP	1 - PUSH BUTTON	182+73.53'	43.92'
5	D-8PH	CONTROLLED GROUND MOUNT, ALUMINUM CABINET (APPROX. 55"Hx44"Wx26"D) w/BATTERY BACKUP		182+31.16'	71.88'

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INDUCTION LOOP DETECTOR SCHEDULE	LOOP NO.	STANDARD (3-TURNS)	QUADRUPOLE (2-4-2)	CARD-POSITION IN RACK	CHANNEL USED
21	6'x6'				A
22	6'x6'				B
61	6'x6'				A
62	6'x6'				B
41	(2) 6'x20'				A
42	(2) 6'x20'				B
81	(2) 6'x20'				A
82	(2) 6'x20'				B
11	(2) 6'x20'				A
51	(2) 6'x20'				A
CARDS PROVIDED FOR FUTURE USE					
OPEN SLOTS IN CARD RACK					

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SHEET	2 OF 2
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QUANTITY SHEET	
DRAWING 5.7	