

GENERAL CONSTRUCTION NOTES

(C-150)

SYMBOLS AND LEGENDS ARE DIAGRAMMATIC ONLY AND LOCATIONS SHALL BE ADJUSTED FOR EXISTING FIELD CONDITIONS, BUT NO MAJOR ALTERATIONS OR RELOCATIONS WILL BE MADE WITHOUT FIRST CONSULTING WITH THE CITY OF BROKEN ARROW COMMUNITY DEVELOPMENT ENGINEERING SECTION SUPERVISOR AT 918-259-2400 EXT. 5452.

(C-151)

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC.

(C-152)

ALL BROKEN CONCRETE, WASTE MATERIAL, AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER, NO PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

(C-155)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLECT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC. PRIOR TO DIGGING NEAR THE UTILITIES. THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:
"OKIE" NOTIFICATION CENTER AT 811 OR 1 (800) 522 6543 OR WWW.CALLOKIE.COM OR
THE LOCAL COUNTY CLERK'S OFFICE.

DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

PAY QUANTITY NOTES

(TC-25)

ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE, AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT.

ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE "A" LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.

(TC-39)

THE CONTRACTOR SHALL PROVIDE A PERSON, 24 HOURS A DAY, SEVEN DAYS A WEEK, AT THE CONSTRUCTION SITE TO MAINTAIN AND KEEP ALL TRAFFIC CONTROL DEVICES IN POSITION ANYTIME TRAFFIC IS DIRECTED AWAY FROM THE NORMAL TRAFFIC LANES OR ANYTIME THE ENGINEER DEEMS IT NECESSARY. THIS PERSON SHALL HOLD A CURRENT CERTIFICATION FROM THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) OR THE OKLAHOMA TRAFFIC ENGINEERING ASSOCIATION (OTEA) AS A TRAFFIC CONTROL TECHNICIAN OR TRAFFIC CONTROL SUPERVISOR.

(TS-24)

QUANTITY SHOWN INCLUDES 1410 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 1745 L.F. TRAFFIC STRIPE(MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE.

(TS-26)

QUANTITY SHOWN INCLUDES 0 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 111 L.F. TRAFFIC STRIPE(MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT INCH (8") WIDE TRAFFIC STRIPE.

(TS-28)

QUANTITY SHOWN INCLUDES 529 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND WILL BE MEASURED BY THE LINEAR FOOT OF TWENTY-FOUR INCH (24") WIDE TRAFFIC STRIPE.

(TS-32)

THE AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING (TRAFFIC STRIPE) REMOVAL SHALL INCLUDE COST OF REMOVAL OF ARROWS, WORDS, AND SYMBOLS. THE PAVEMENT MARKING TO BE REMOVED SHALL BE CONSIDERED THERMOPLASTIC AND BID ACCORDINGLY.

DURING REMOVAL OF EXISTING STRIPING AND REPLACEMENT WITH NEW STRIPING, PERMANENT STRIPING SHALL BE REPLACED WITHIN 48 HOURS AFTER OLD STRIPING IS REMOVED.

(TL-35)

FOR ADDITIONAL INFORMATION CONCERNING THE SERVICE POLE CONTACT THE FOLLOWING PRIOR TO INSTALLATION:
UTILITY COMPANY.....AEP/PSO.
CITY OF BROKEN ARROW.....GARY HARRIS AT (918) 259 7000 EXT. 7384

(TP-1)

PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY. SEE THE 2009 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

(1)

THE CONTROLLER(S) TO BE FURNISHED ON THIS PROJECT SHALL HAVE A NATURAL ALUMINUM FINISH AND HAVE VEHICLE ACTUATED SOLID STATE DIGITAL CONTROLLER(S) WITH VOLUME DENSITY FEATURES. THE CONTRACTOR SHALL FURNISH THE CONTROLLER(S) AND MOUNTING FRAMES AS FOLLOWS:

INTERSECTION

TYPE

CONFLICT & USER FLASH

E 121ST S (TUCSON ST) & S 3RD ST

8P

ALL RED

A COMPLETE 8-PHASE CONTROLLER AND CABINET IS TO BE FURNISHED FOR THIS PROJECT.

THE CONTROLLER WITH 2P - 4P CAPABILITY SHALL BE FURNISHED WITH 8 LOAD RECEPTACLE BAYS, CONTROLLER(S) WITH 5P - 8P CAPABILITY SHALL BE FURNISHED WITH 16 LOAD SWITCH RECEPTACLE BAYS. ALL CORRESPONDING RECEPTACLE WIRING IN THE CABINET AND FIELD WIRING SHALL BE INSTALLED FOR THE CONTROLLER AS REQUIRED EXCEPT FOR ADDITIONAL DETECTOR CONNECTING CABLES WHEN THE CONTROLLER IS EXPANDED. THE CONTROLLER(S) SHALL BE CAPABLE OF PERFORMING AS SHOWN ON PHASE & SEQUENCE DIAGRAMS, PEDESTRIAN ISOLATION SHALL BE PROVIDED IN THE CONTROLLER CABINET. ALL N.E.M.A. FUNCTIONS SHALL TERMINATE IN THE CONTROLLER CABINET. RIGHT TURN OVERALPS, IF ANY, ARE TO BE HARDWIRED TO THE COMPATIBLE LEFT TURN PHASE.

CABINET SHALL HAVE A 120V RECEPTACLE INSTALLED INSIDE OF THE CABINET IN ADDITION TO OR IN LIEU OF A RECEPTACLE INSTALLED ON THE DOOR. ALSO, ALL CABINETS THAT ARE TO BE INSTALLED IN A SIGNAL INTERCONNECT SYSTEM SHALL HAVE A PULL- OUT COMPUTER SHELF AND DRAWER INSTALLED FOR LAPTOP USE AT THE CONTROLLER CABINET.

THE CONTROLLER TO BE USED ON THIS PROJECT SHALL BE A SAFETRAN ECONOLITE COBALT RACK MOUNT

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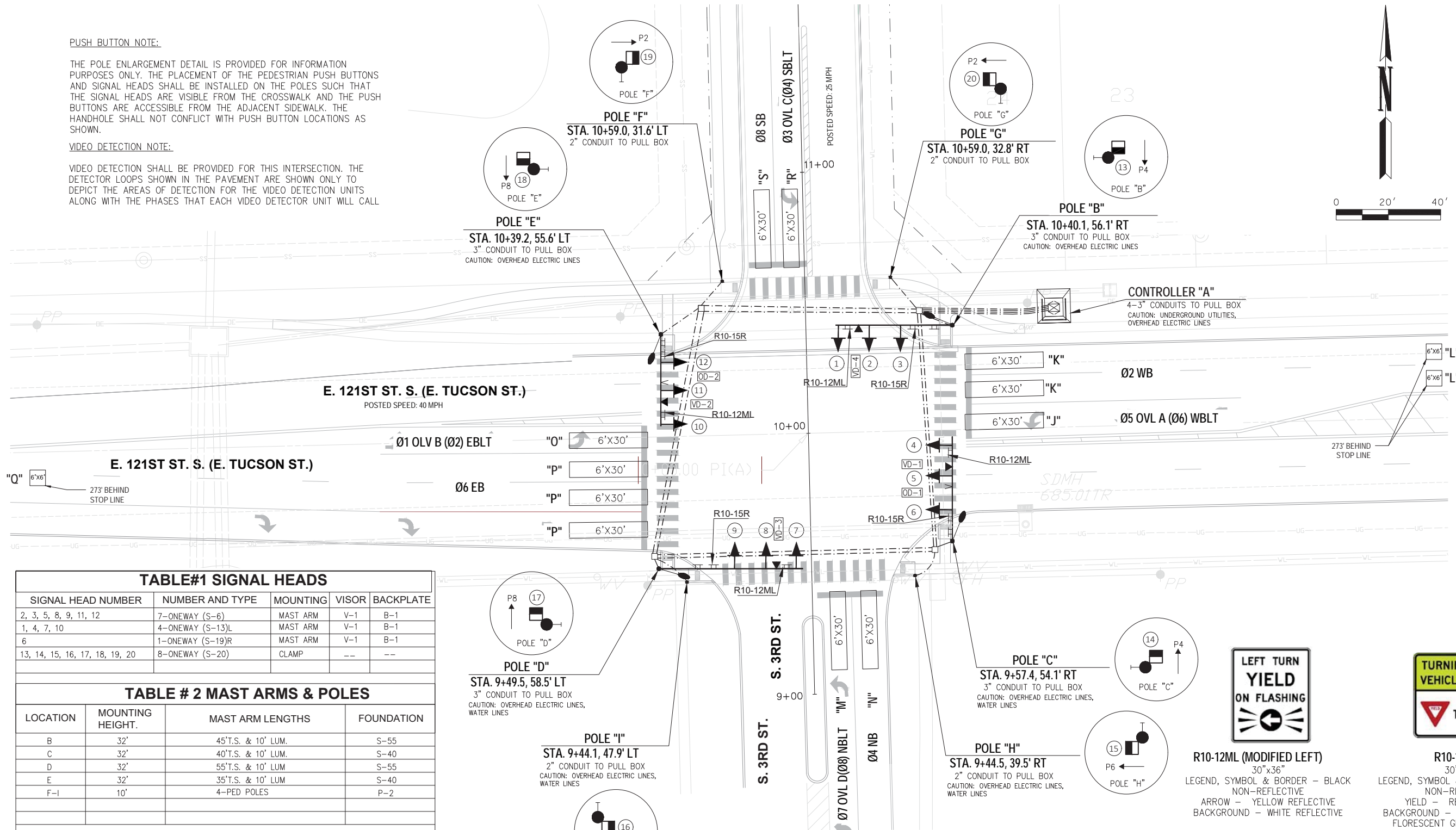
12/12/2024

PUSH BUTTON NOTE:

THE POLE ENLARGEMENT DETAIL IS PROVIDED FOR INFORMATION PURPOSES ONLY. THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK AND THE PUSH BUTTONS ARE ACCESSIBLE FROM THE ADJACENT SIDEWALK. THE HANDHOLE SHALL NOT CONFLICT WITH PUSH BUTTON LOCATIONS AS SHOWN.

VIDEO DETECTION NOTE:

VIDEO DETECTION SHALL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN IN THE PAVEMENT ARE SHOWN ONLY TO DEPICT THE AREAS OF DETECTION FOR THE VIDEO DETECTION UNITS ALONG WITH THE PHASES THAT EACH VIDEO DETECTOR UNIT WILL CALL



LEGEND

1 1/2" ELEC. CONDUIT

2" ELEC. CONDUIT

3" ELEC. CONDUIT

4" ELEC. CONDUIT

EXISTING CONDUIT

SIZE II PULL BOX

EXISTING PULL BOX

SIZE III PULL BOX

SERVICE POLE

CONTROLLER

PEDESTRIAN PUSH BUTTON

WALK AND DON'T WALK

SIGNAL HEAD WITH BACKPLATE

LUMINAIRE WITH MAST ARM

OPTICAL DETECTOR

VIDEO DETECTION

STREET NAME SIGN

MAST ARM WITH POLE

SIGNAL HEAD NO.

MAST ARM & POLE WITH ABOVE SYMBOLS

DETECTOR LOOP/VIDEO DETECTION AREA

Mar/13/2025
CITY OF BROKEN ARROW
**NO EXCEPTIONS
TAKEN**

TABLE#1 SIGNAL HEADS				
SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
2, 3, 5, 8, 9, 11, 12	7-ONEWAY (S-6)	MAST ARM	V-1	B-1
1, 4, 7, 10	4-ONEWAY (S-13)L	MAST ARM	V-1	B-1
6	1-ONEWAY (S-19)R	MAST ARM	V-1	B-1
13, 14, 15, 16, 17, 18, 19, 20	8-ONEWAY (S-20)	CLAMP	--	--

TABLE # 2 MAST ARMS & POLES			
LOCATION	MOUNTING HEIGHT	MAST ARM LENGTHS	FOUNDATION
B	32'	45'T.S. & 10' LUM.	S-55
C	32'	40'T.S. & 10' LUM.	S-40
D	32'	55'T.S. & 10' LUM	S-55
E	32'	35'T.S. & 10' LUM	S-40
F-I	10'	4-PED POLES	P-2

TABLE # 3 ELECTRICAL CABLE							
ELECTRICAL CABLE TO CONTROLLER "A" LOCATION							
B-21C/2C	C-21C/2C	D-21C/2C	E-21C/2C	F-5C/2C	G-5C/2C	H-5C/2C	I-5C/2C

DATE	REVISIONS

Submitted
March 12, 2025

I HEREBY CERTIFY THAT THESE CONTRACT DOCUMENTS COMPLY WITH THE ADOPTED ORDINANCES, SUBDIVISION REGULATIONS, ENGINEERING DESIGN CRITERIA, CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE CITY OF BROKEN ARROW. LIKEWISE, THESE DOCUMENTS COMPLY WITH ALL APPLICABLE STATE RULES AND REGULATIONS, SUCH AS OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ), AND FEDERAL LAWS AND RULES, SUCH AS UNITED STATES ARMY CORPS OF ENGINEERS (USACE) AND FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).



R10-15R
30"x30"
LEGEND, SYMBOL & BORDER - BLACK
NON-REFLECTIVE
YIELD - RED REFLECTIVE
BACKGROUND - WHITE REFLECTIVE/
FLORESCENT GREEN REFLECTIVE



Jimmie A. Sitz
JIMMIE A. SITZ, P.E. NO. 17377
C.A. NO. 9325

02-22-2025
DATE

CITY OF
BROKEN ARROW
Where opportunity lives

Seratran
Improving Mobility
15303 E. 104th St. N., Owasso, OK 74055-4836
918-720-7625, www.seratran.com

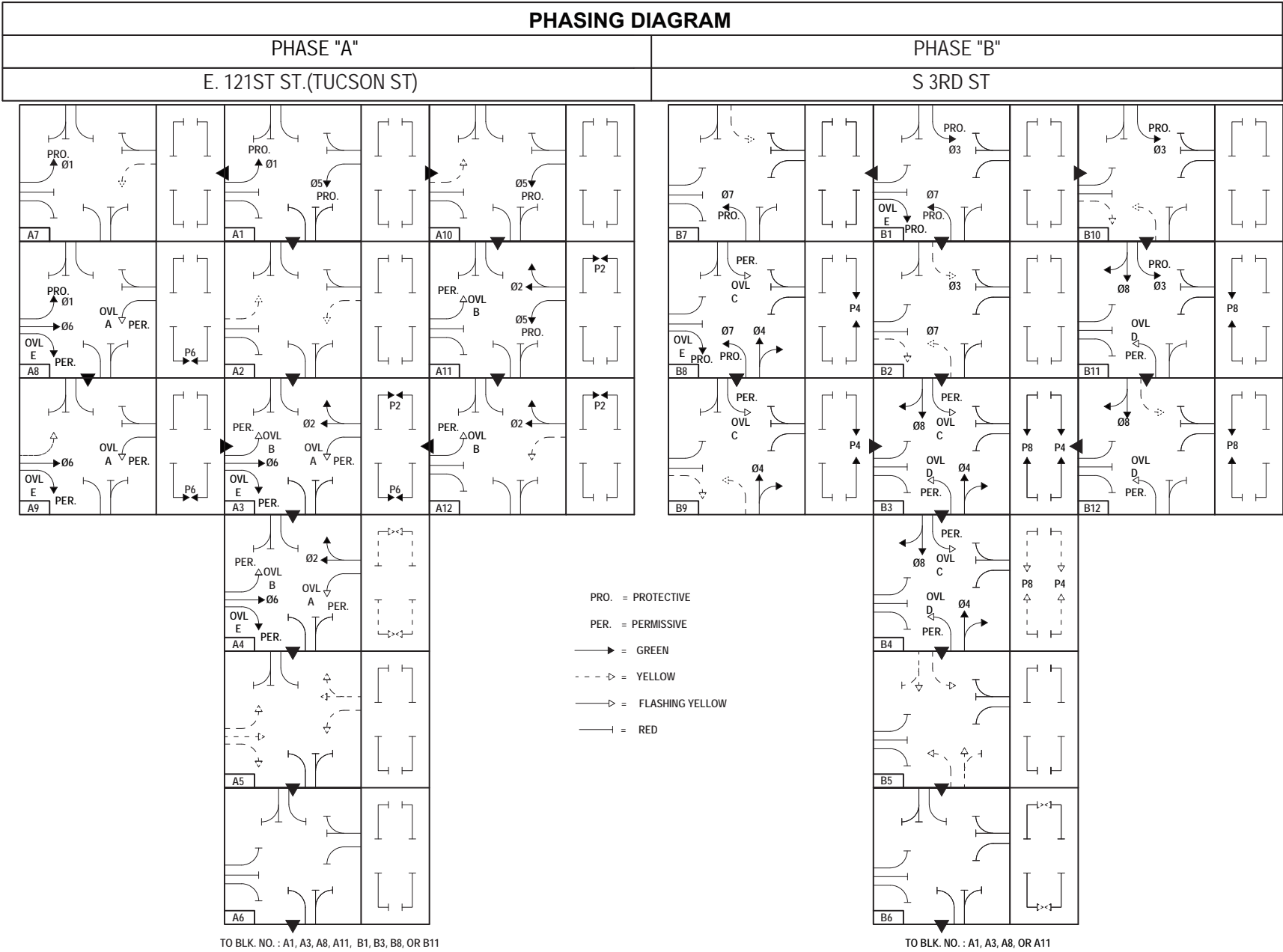
E. 121ST ST. S. (E. TUCSON ST.)
AND S. 3RD ST. INTERSECTION

SIGNAL PLAN

PROFILE SCALE:
HORZ. --
VERT. --
DRAWING NAME:

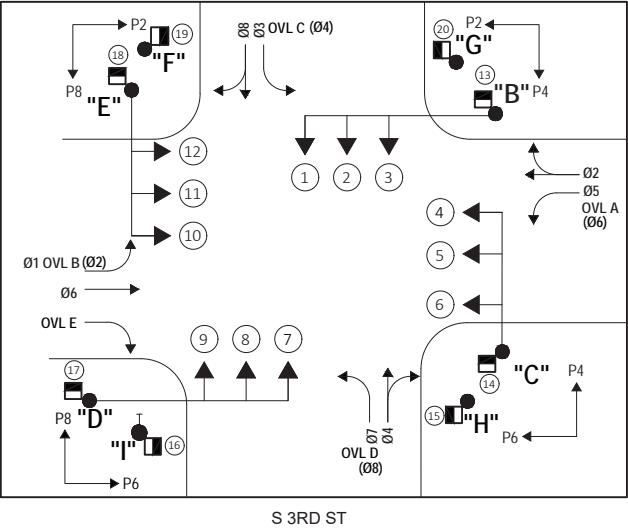
DESIGN	DATE	DRAFTED	DATE
JAS	02/20/2025	MA	01/15/2025
REVIEWED	DATE	APPROVED	DATE
SHEET 02 OF 07	PROJECT NO. 24002		

12/12/2024



SEQUENCE CHART														
DIRECTION	BLOCK NO.	PHASE												
		05 OVL A	02	07 OVL D	04	01 OVL B	06	OVL E	03 OVL C	08	P2	P4	P6	P8
		SIGNAL HEAD NO.												
		10	11,12	1	2,3	4	5	6	7	8,9	19,20	13,14	15,16	17,18
01, 05 ROW	A1	←G	R	←R	R	←G	R	R	←R	R	DW	DW	DW	DW
01, 05 CL	A2	←Y	R	←R	R	←Y	R	R	←R	R	DW	DW	DW	DW
02, OVL A, 06, OVL B P2, P6 ROW	A3	←FY	G	←R	R	←FY	G	G	←R	R	W	DW	W	DW
02, OVL A, 06, OVL B ROW & P2,P6 CL	A4	←FY	G	←R	R	←FY	G	G	←R	R	FDW	DW	FDW	DW
02, OVL A, 06, OVL B CL	A5	←Y	Y	←R	R	←Y	Y	Y	←R	R	DW	DW	DW	DW
ALL RED	A6	←R	R	←R	R	←R	R	R	←R	R	DW	DW	DW	DW
01 ROW & 05 CL	A7	←Y	R	←R	R	←G	R	R	←R	R	DW	DW	DW	DW
01, 06, OVL A, & P6 ROW	A8	←FY	R	←R	R	←G	G	G	←R	R	DW	DW	W	DW
06, P2 ROW & 01 CL	A9	←FY	R	←R	R	←Y	G	G	←R	R	DW	DW	W	DW
05 ROW & 01 CL	A10	←G	R	←R	R	←Y	R	R	←R	R	DW	DW	DW	DW
02, OVL B, 05 & P2 ROW	A11	←G	G	←R	R	←FY	R	R	←R	R	W	DW	DW	DW
02, OVL B, P2 ROW & 05 CL	A12	←Y	G	←R	R	←FY	R	R	←R	R	W	DW	DW	DW
03, 07 ROW	B1	←R	R	←G	R	←R	R	R	←G	R	DW	DW	DW	DW
03, 07 CL	B2	←R	R	←Y	R	←R	R	R	←Y	R	DW	DW	DW	DW
04, OVL C, 08, OVL D, P4, P8 ROW	B3	←R	R	←FY	G	←R	R	R	←FY	G	DW	W	DW	W
04, OVL C, 08, OVL D ROW & P4, P8 CL	B4	←R	R	←FY	G	←R	R	R	←FY	G	DW	FDW	DW	FDW
04, OVL C, 08, OVL D CL	B5	←R	R	←Y	Y	←R	R	R	←Y	Y	DW	DW	DW	DW
ALL RED	B6	←R	R	←R	R	←R	R	R	←R	R	DW	DW	DW	DW
07 ROW & 03 CL	B7	←R	R	←G	R	←R	R	R	←G	R	DW	DW	DW	DW
07, 04, OVL C & P4 ROW	B8	←R	R	←G	G	←R	R	R	←G	R	DW	W	DW	DW
04, OVL C, P4 ROW & 07 CL	B9	←R	R	←Y	G	←R	R	R	←Y	R	DW	W	DW	DW
03 ROW & 07 CL	B10	←R	R	←Y	R	←R	R	R	←Y	R	DW	DW	DW	DW
03, 08, OVL D & P8 ROW	B11	←R	R	←FY	R	←R	R	R	←G	G	DW	DW	DW	W
08, OVL D, P8 ROW & 03 CL	B12	←R	R	←FY	R	←R	R	R	←Y	G	DW	DW	DW	W
FLASHING OPERATION	-	←FR	FR	←FR	FR	←FR	FR	FR	←FR	FR	-	-	-	-

INTERSECTION
PHASING & SIGNAL HEAD NO.'S
S 3RD ST



Mar/13/2025
CITY OF BROKEN ARROW
**NO EXCEPTIONS
TAKEN**



Submitted
March 12, 2025

Jimmie A. Sitz
JIMMIE A. SITZ, P.E. NO. 17377
C.A. NO. 9325
02-22-2025
DATE

DATE	REVISIONS

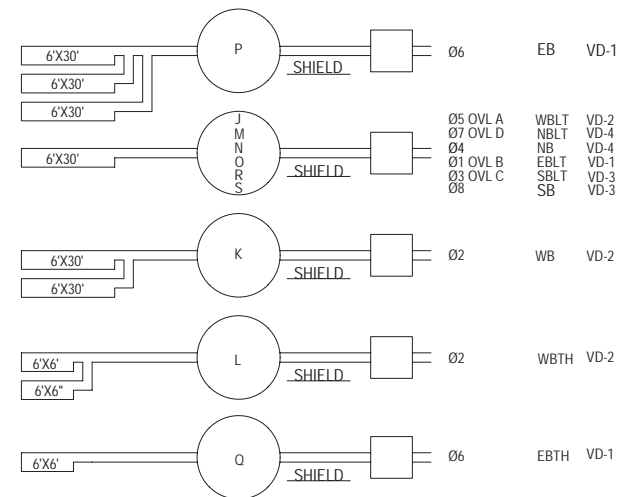
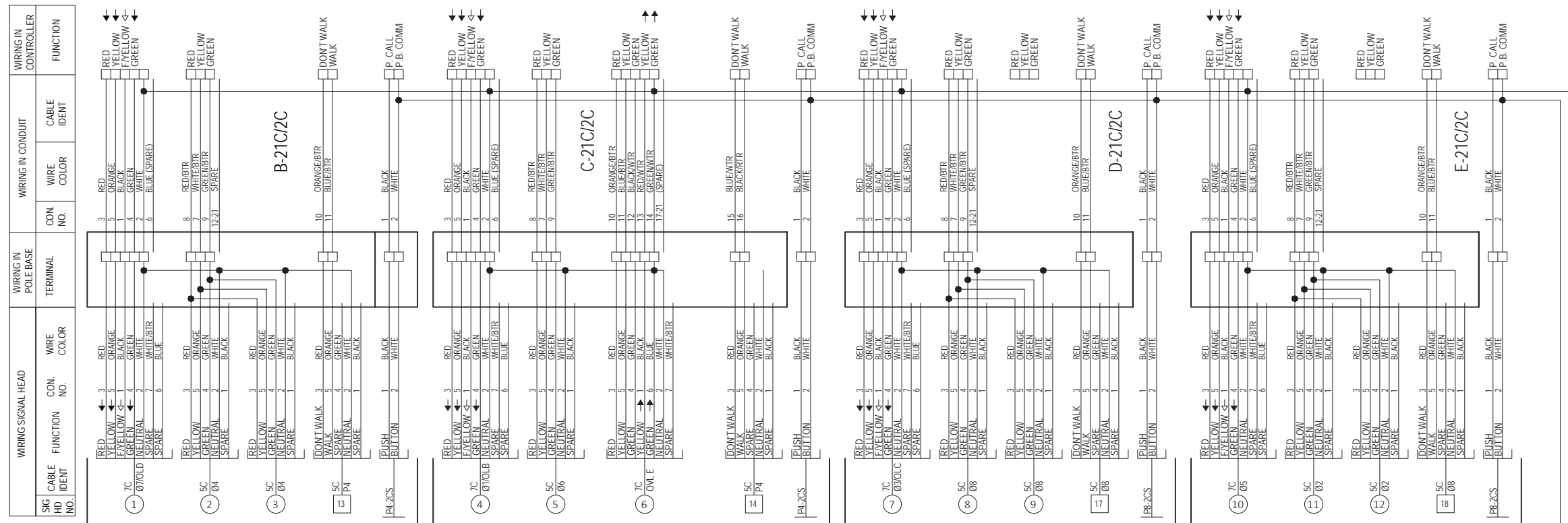
STREET NAME SIGNS WHITE ON BLUE



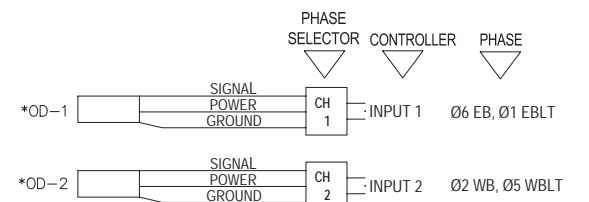
SUMMARY OF MAST ARM MOUNTED SIGNS						
MESSAGE	POLE LOCATION	NO. OF SIGN	LENGTH (IN.)	HEIGHT (IN.)	SIGN AREA (SQ.FT.)	TOTAL SIGN AREA (SQ.FT.)
E Tucson St E 121st St	B, D	2	72	24	12.00	24.00
S 3rd St	C, E	2	72	24	12.00	24.00
R10-12ML	B, C, D, E	4	30	36	7.50	30.00
R10-15 (R)	B, C, D, E	4	30	30	6.25	25.00
TOTAL						103.00

SIGNAL DETAIL

PROFILE SCALE:	DESIGN	DATE	DRAFTED	DATE
	JAS	02/20/2025	MA	01/15/2025
	REVIEWED	DATE	APPROVED	DATE
DRAWING NAME:	SHEET 03 OF 07		PROJECT NO. 24002	

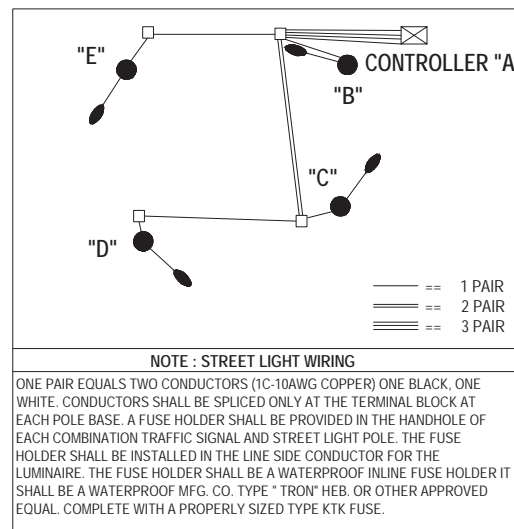


VIDEO DETECTION AREAS

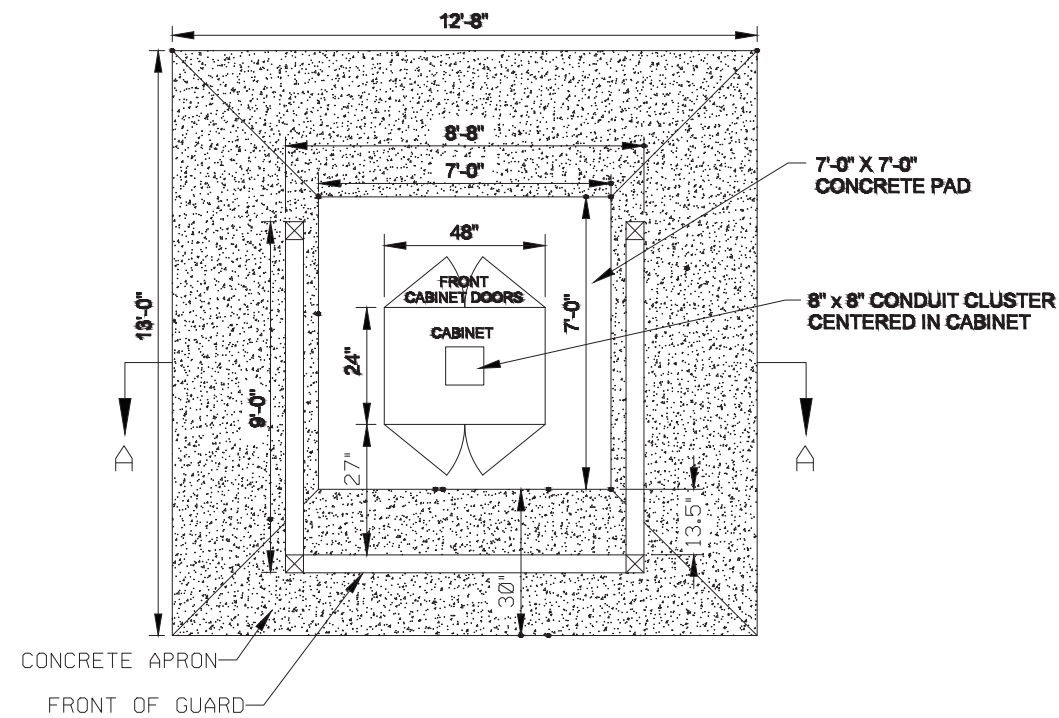
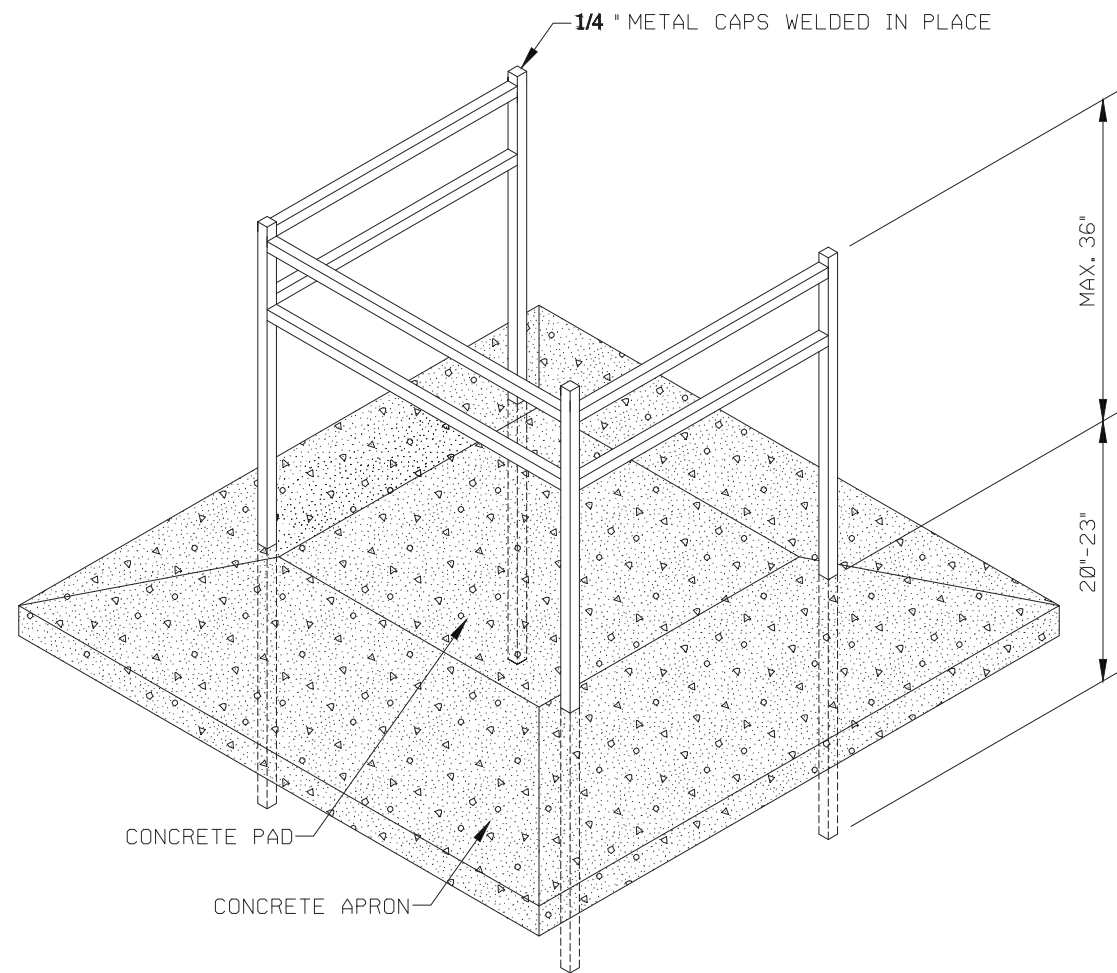


PRE-EMPTOR DETAILS

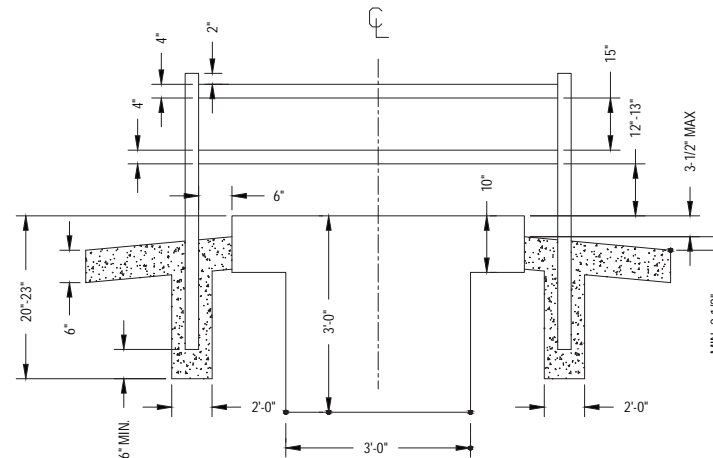
*OPTICAL DETECTOR



DATE	REVISIONS



PLACEMENT TOP VIEW - CABINET GUARD



SECTION A-A

PLACEMENT FRONT VIEW

NOTE: HORIZONTAL DIMENSIONS MUST BE CHECKED AND ADJUSTED BY CONTRACTOR AS NECESSARY TO ASSURE THAT THE CONTROLLER CABINET AND BATTERY BACKUP CABINET DOORS HAVE ROOM TO OPEN AND A PERSON HAS ROOM TO WORK WITHIN GUARDED AREA. GUARD SHALL NOT BE SMALLER THAN 8'-8"X9'-0", AS SHOWN. APRON TO BE FORMED AND FINISHED CONCRETE.

- NOTES:

1. TOLERANCE OF CABINET GUARD SHALL BE $\frac{1}{4}$ " MEASURED FROM DIAGONAL. HORIZONTAL MEMBERS SHALL BE PLUMB AND LEVEL. GUARD SHALL BE CENTERED AROUND CONTROLLER BASE.
2. LOCATION AND ORIENTATION OF CABINET AND CABINET GUARD TO BE APPROVED BY THE GENERAL SERVICES SUPERINTENDENT PRIOR TO INSTALLATION.
3. GUARD TO BE FABRICATED FROM 4" SCHEDULE 80 SQUARE STEEL TUBING.
4. COMPLETED CABINET GUARD SHALL BE PAINTED WITH TWO COATS OF "BRONZE" RUSTOLEUM EXTERIOR PAINT, OR APPROVED EQUAL.

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E. 121ST ST. S. (E. TUCSON ST.)
AND S. 3RD ST. INTERSECTION

CABINET GUARD DETAIL

Mar/13/2025
CITY OF BROKEN ARROW
**NO EXCEPTIONS
TAKEN**

Submitted
March 12, 2025

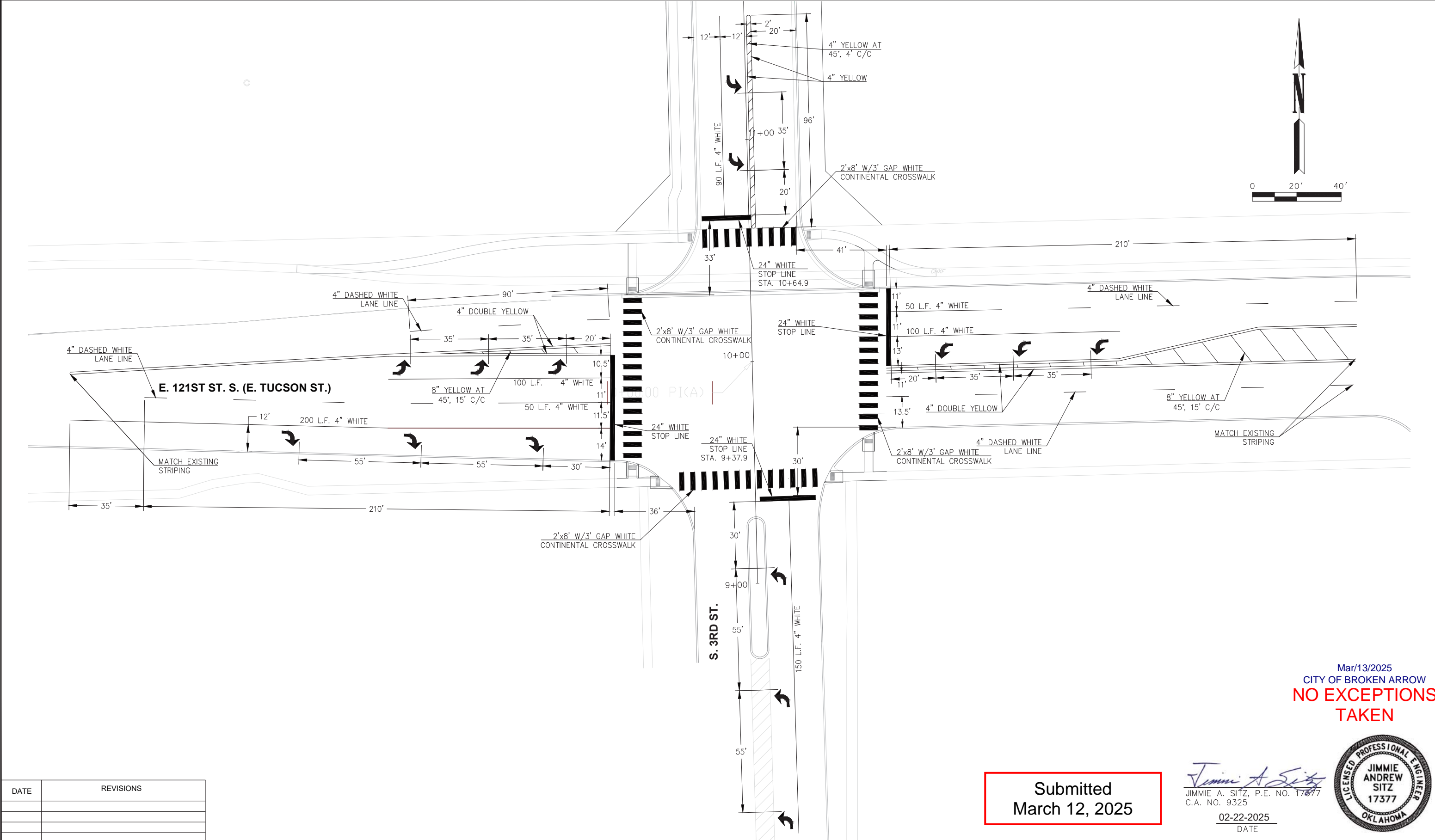
Jimmie A Sitz
JIMMIE A. SITZ, P.E. NO. 17877
C.A. NO. 9325

02-22-2025
DATE



PROFILE SCALE: HORZ. -- VERT. --	DESIGN	DATE	DRAFTED	DATE
	JAS	02/20/2025	MA	01/15/2025
	REVIEWED	DATE	APPROVED	DATE
DRAWING NAME:	SHEET 05 07		PROJECT NO. 24002	

12/12/2024



DATE	REVISIONS

Submitted
March 12, 2025

Mar/13/2025
CITY OF BROKEN ARROW
**NO EXCEPTIONS
TAKEN**

Jimmie A. Sitz
JIMMIE A. SITZ, P.E. NO. 17677
C.A. NO. 9325

02-22-2025
DATE



E. 121ST ST. S. (E. TUCSON ST.)
AND S. 3RD ST. INTERSECTION

STRIPING PLAN

PROFILE SCALE:	DESIGN	DATE	DRAFTED	DATE
HORZ. --	JAS	02/20/2025	MA	01/15/2025
VERT. --	REVIEWED	DATE	APPROVED	DATE
DRAWING NAME:	SHEET 06	PROJECT NO. 24002		
	OF 07			



PORTABLE SIGN WITH
48" CW20-1 (AHEAD)



PORTABLE SIGN WITH
48" CW20-1 (AHEAD)



300'

300'

1+00

EDGE OF
TRAVEL WAY

10+00

DETECTION ZONE
TYPICAL
100.00 PI(A)

50'

E. 121ST ST. S. (E. TUCSON ST.)

ARROW/ATTENUATOR TRUCK FOR
LOOP INSTALLATION (IF REQUIRED)
AND SIGNAL HEAD ADJUSTMENT

TYPICAL TEMPORARY LANE CLOSURE
FOR INSTALLING DETECTION
AND SIGNAL HEAD ADJUSTMENTS

BUCKET TRUCK FOR SIGNAL HEAD
ADJUSTMENT - TO BE PARKED IN
THE LANE WITH 4 TRAFFIC CONES
AND OUT OF OPPOSING TRAFFIC

300'

9+00

S. 3RD ST.

CONTRACTOR TO ONLY BLOCK
ONE LANE AT A TIME FOR
ADJUSTING SIGNAL HEADS
AND/OR INSTALLING LOOPS.

NOTE:

PROPOSED STRIPING CONDITION IS SHOWN FOR TRAFFIC CONTROL ON
SIGNAL DETECTION OR SIGNAL HEAD ADJUSTMENT. ONE APPROACH
SIGNAL CONFIGURATION IS SHOWN TO REPRESENT TYPICAL TRAFFIC
CONTROL NEEDS FOR SUCH WORK.

Submitted
March 12, 2025

Mar/13/2025
CITY OF BROKEN ARROW
**NO EXCEPTIONS
TAKEN**

Jimmie A. Sitz
JIMMIE A. SITZ, P.E. NO. 17377
C.A. NO. 9325

02-22-2025
DATE



PORTABLE SIGN WITH
48" CW20-1 (AHEAD)



DATE	REVISIONS



E. 121ST ST. S. (E. TUCSON ST.)
AND S. 3RD ST. INTERSECTION

TYPICAL SIGNAL
TRAFFIC CONTROL

PROFILE SCALE:	DESIGN	DATE	DRAFTED	DATE
HORZ. --	JAS	02/20/2025	MA	01/15/2025
VERT. --	REVIEWED	DATE	APPROVED	DATE
DRAWING NAME:	SHEET 07 OF 07	PROJECT NO. 24002		

12/12/2024