

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL
AWF	ADVANCE WARNING FLASHER
C.D.	COUNT DOWN
D2-1 (e.g.)	DETECTOR (PHASE 2, NO. 1)
DEG	DEGREES
DWK	DON'T WALK
EQ.G	EQUIPMENT GROUND
EVP	EMERGENCY VEHICLE PRE-EMPTION
F&I	FURNISH AND INSTALL
FL	FLASH/FLASHING
FYA	FLASHING YELLOW ARROW
FYLA	FLASHING YELLOW LEFT ARROW
CLA	GREEN LEFT ARROW
GRN	GREEN INDICATION
GR. RD.	GROUND ROD
GRA	GREEN RIGHT ARROW
GTA	GREEN THRU ARROW
HH	HANDHOLE
HPS	HIGH PRESSURE SODIUM
IND	INDICATION
IMC	INTERMEDIATE METAL CONDUIT
INP	INPLACE
INS. GR.	INSULATED GROUND
JB	JUNCTION BOX
LED	LIGHT EMITTING DIODE
LUM	LUMINAIRE
NEU	NEUTRAL
NMC	NONMETALLIC CONDUIT
P1-1 (e.g.)	PEDESTRIAN INDICATION (PHASE 1, NO. 1)
PB	PUSH BUTTON
PB2-1 (e.g.)	PUSH BUTTON (PHASE 2, NO. 1)
PEC	PHOTOELECTRIC CELL
PEO	PEDESTRIAN
PVC	POLYVINYL CHLORIDE (CONDUIT)
RED	RED INDICATION
R&S	REMOVE AND SALVAGE
RLA	RED LEFT ARROW
RSC	RIGID STEEL CONDUIT
S&I	SALVAGE AND INSTALL
SOP	SOURCE OF POWER
SPR	SPARE
STA	STATION
WLK	WALK
YEL	YELLOW INDICATION
YLA	YELLOW LEFT ARROW
YRA	YELLOW RIGHT ARROW

SYMBOLS

	EQ.G CONNECTION
	EVP CONFIRMATORY LIGHT
	EVP DETECTOR
	EVP DETECTOR AND CONFIRMATORY LIGHT
	FIBER OPTIC VAULT
	LUMINAIRE NO.
	SIGNAL BASE NO.
	SIGNAL FACE NO./FLASHER FACE NO.
	BARREL MOUNT BASE NO.
	WOOD POLE NO.
	SPLICE
	VIDEO DETECTION
	MICROWAVE DETECTION
	SONIC DETECTION

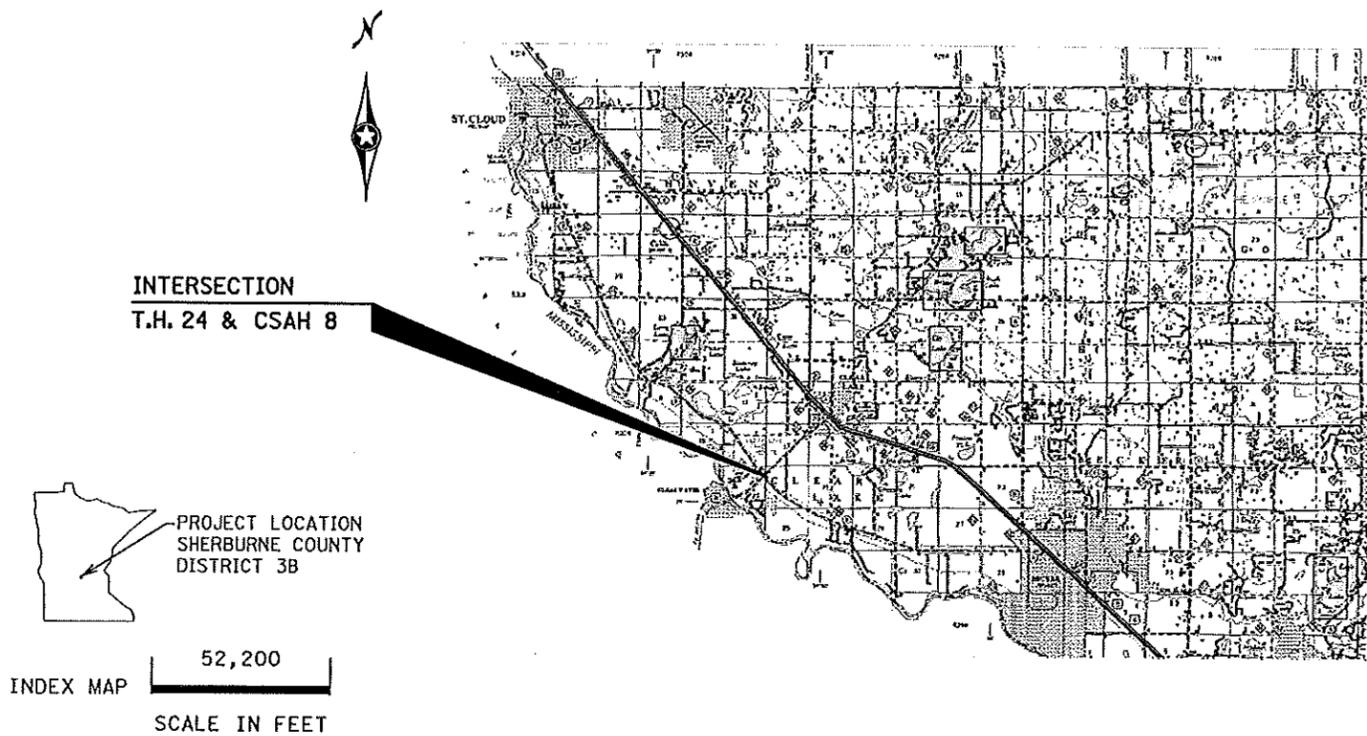
FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR THE TRUCK PRIORITY SYSTEM

AT THE INTERSECTION OF: T.H. 24 AT SHERBURNE CSAH 8, CLEARWATER MN

STATE CONTRACT NO. 97533



STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	LUMP SUM	1
2360.501	TYPE SP 12.5 WEARING COURSE MIXTURE (3,B) (P)	TON	5
2563.601	TRAFFIC CONTROL	LUMP SUM	1
2565.616	REVISE SIGNAL SYSTEM	SYSTEM	1

COST BREAKDOWN OF ESTIMATED QUANTITIES

STATE	COUNTY	FEDERAL	CITY STATE AID PROJECT NUMBER
100			
100			
100			
100			

STANDARD PLATES - SIGNAL SYSTEMS

NOTE: (P) DENOTES PLANNED QUANTITY

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

PLATE NO.	DESCRIPTION	PLATE NO.	DESCRIPTION
7036	G PEDESTRIAN CURB RAMP PERPENDICULAR DESIGN	8120	N POLE FOUNDATION (PA-85)
7038	A DETECTABLE WARNING SURFACE TRUNCATED DOMES	8121	F TRANSFORMER BASE AND POLE BASE PLATE
7113	A CONCRETE APPROACH NOSE DETAIL	8122	E PEDESTAL AND PEDESTAL BASE
8110	E TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)	8123	F POLE AND MAST ARM
8111	E TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED)	8126	I POLE FOUNDATION (PA90 AND PA100)
8112	F PEDESTAL FOUNDATION	8130	E SAW CUT LOOP DETECTORS
8114	A PVC HANDHOLE/PULLBOX	8132	A PREFORMED RIGID PVC CONDUIT LOOP DETECTOR
8117	F PRECAST CONCRETE HAND HOLE		
8118	D SERVICE EQUIPMENT AND POLE		
8119	C GROUND MOUNTED CABINET FOUNDATION		

▶ STANDARD PLATES APPLICABLE TO THIS PROJECT

STATE CONTRACT NO. CHARGE IDENTIFIER

97533

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

S.A.P. NO.

STATE CONTRACT NO. 97533 (T.H.24)

FED. PROJ. NO. _____

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

SHEET NO.	TITLE
1	TITLE SHEET & ESTIMATED QUANTITIES
2	GENERAL LAYOUT
3-5	CONSTRUCTION PLANS
6	WIRING DIAGRAM
7-19	TRAFFIC CONTROL PLANS

THIS PLAN CONTAINS 19 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JON JACKELS LIC. NO. 25526 DATE: 7/27/2011
TYPED NAME

DESIGN SQUAD _____ KEN HANSEN

RECOMMENDED FOR APPROVAL *Calvin R. Puthoff* DATE: 8-3-11
DISTRICT TRANSPORTATION ENGINEER

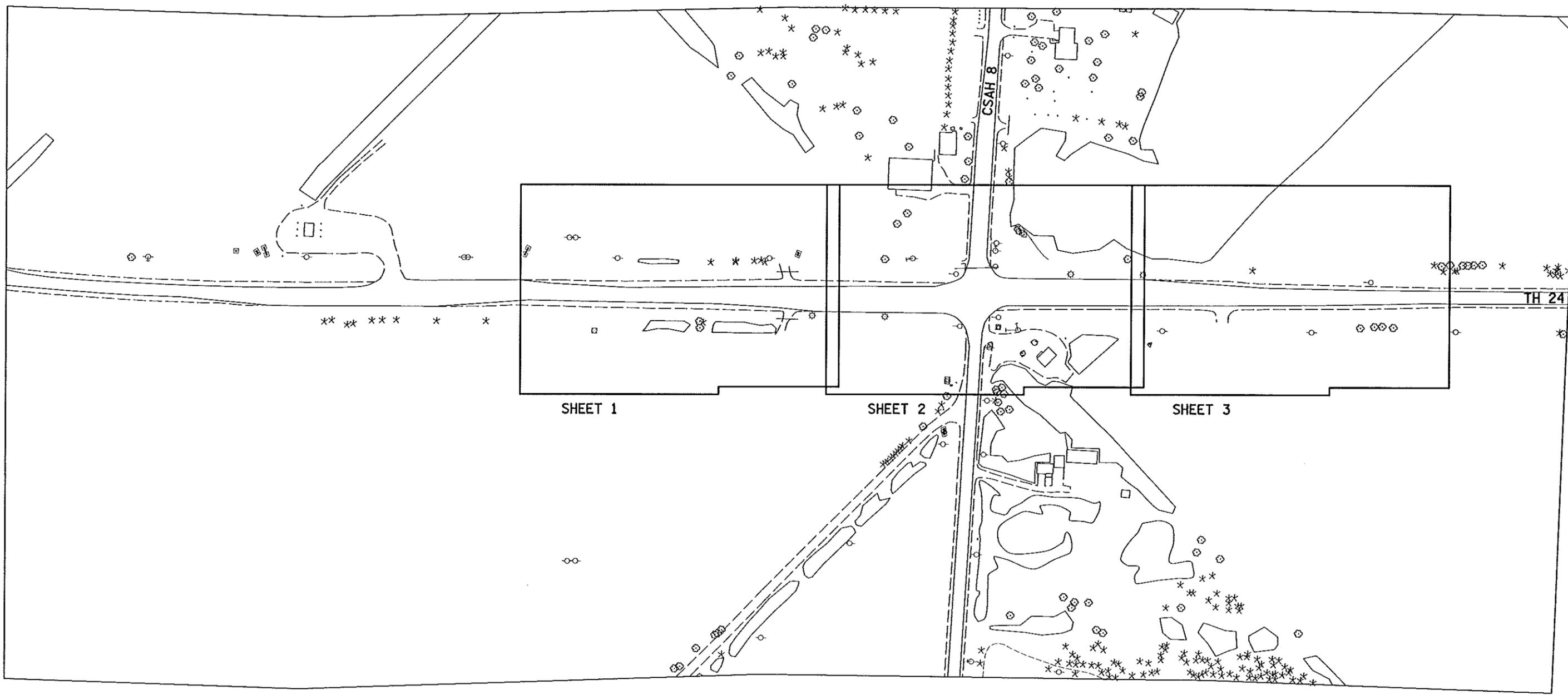
RECOMMENDED FOR APPROVAL *Thom Dumas* DATE: 8-2-11
DISTRICT TRAFFIC ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: _____ LIC. NO. _____ DATE: _____

PLOTTED/REVISED: 26-JUL-2011 13:04

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PATH & FILENAME: DT-ST/ITS/Projects/Truck Priority/TH24/Plan Sheets/Title Sheet (06-06-11).dgn



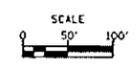
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SHEET 2

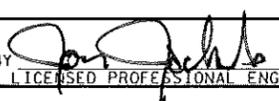
SHEET 3

TH 24

CSAH 8



GENERAL LAYOUT

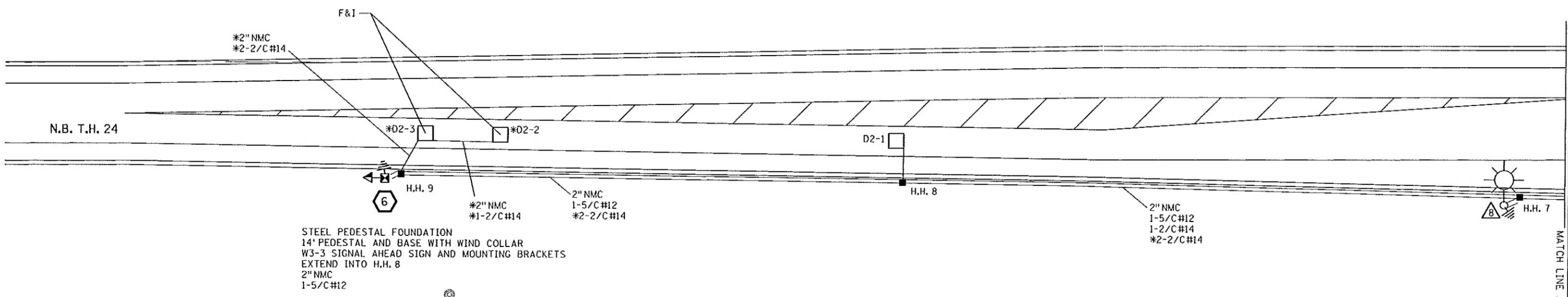
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LICENSED PROFESSIONAL ENGINEER

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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 2 OF 19 SHEETS



NOTES:
 1. * DENOTES FURNISH & INSTALL (F&I).

SHEET 1 OF 3

CONSTRUCTION PLAN

CERTIFIED BY *Jon Dahl* LIC. NO. 25526
 LICENSED PROFESSIONAL ENGINEER

FILE NAME: OTST/ITS/Projects/Truck Priority/TH24/Plan Sheets/Signal Layout.dgn

26-JUL-2011 10:26

STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 3 OF 19 SHEETS

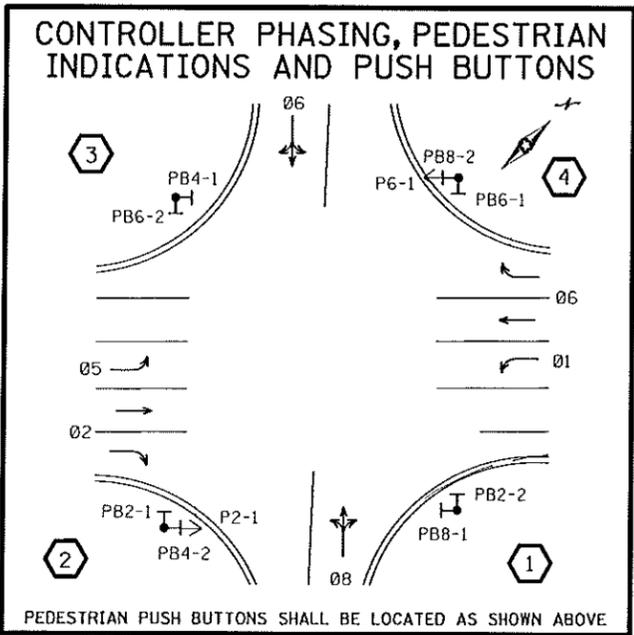
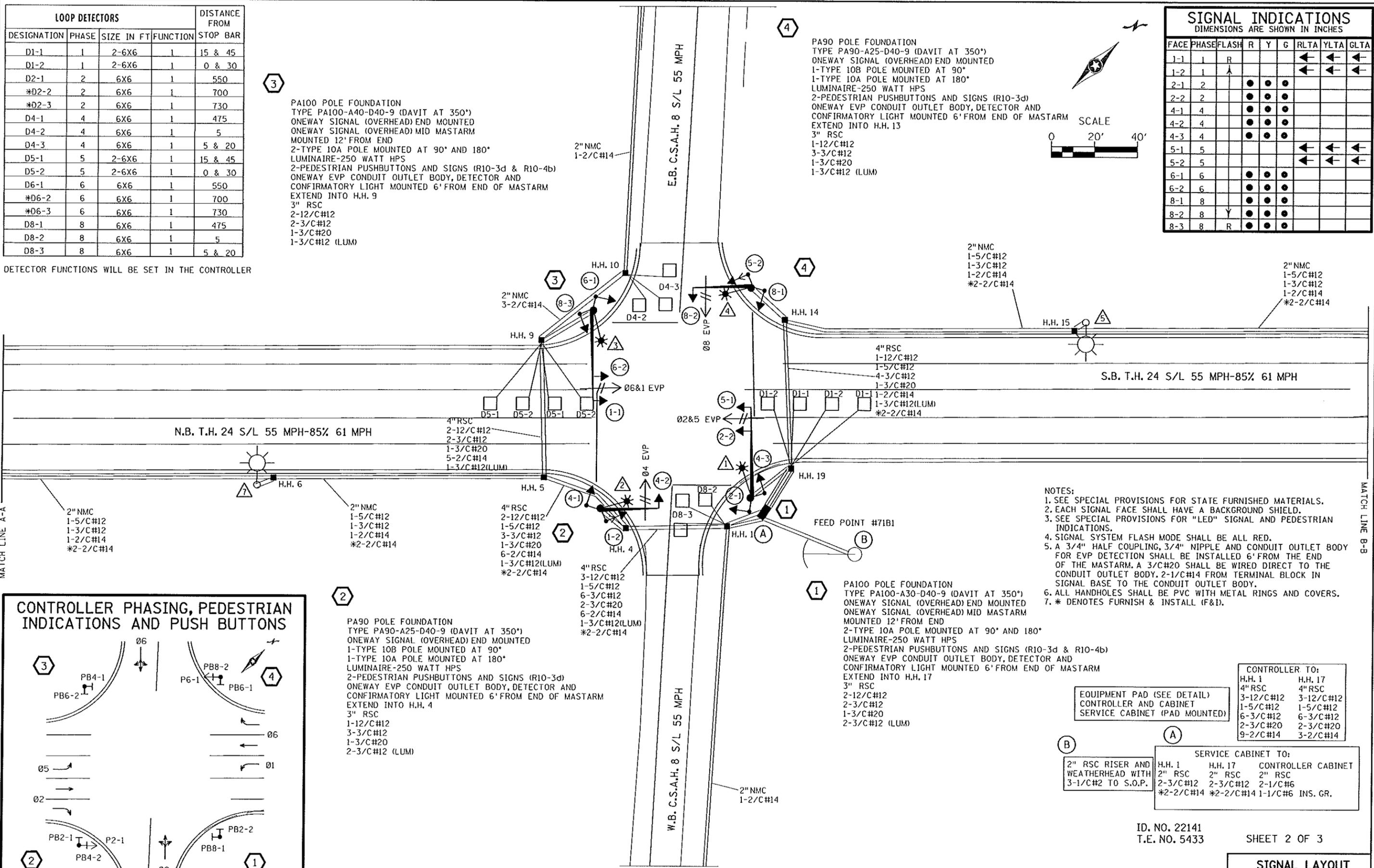
LOOP DETECTORS				DISTANCE FROM STOP BAR
DESIGNATION	PHASE	SIZE IN FT	FUNCTION	
D1-1	1	2-6X6	1	15 & 45
D1-2	1	2-6X6	1	0 & 30
D2-1	2	6X6	1	550
*D2-2	2	6X6	1	700
*D2-3	2	6X6	1	730
D4-1	4	6X6	1	475
D4-2	4	6X6	1	5
D4-3	4	6X6	1	5 & 20
D5-1	5	2-6X6	1	15 & 45
D5-2	5	2-6X6	1	0 & 30
D6-1	6	6X6	1	550
*D6-2	6	6X6	1	700
*D6-3	6	6X6	1	730
D8-1	8	6X6	1	475
D8-2	8	6X6	1	5
D8-3	8	6X6	1	5 & 20

3

PA100 POLE FOUNDATION
 TYPE PA100-A40-D40-9 (DAVIT AT 350°)
 ONEWAY SIGNAL (OVERHEAD) END MOUNTED
 ONEWAY SIGNAL (OVERHEAD) MID MASTARM MOUNTED 12' FROM END
 2-TYPE 10A POLE MOUNTED AT 90° AND 180°
 LUMINAIRE-250 WATT HPS
 2-PEDESTRIAN PUSHBUTTONS AND SIGNS (R10-3d & R10-4b)
 ONEWAY EVP CONDUIT OUTLET BODY, DETECTOR AND CONFIRMATORY LIGHT MOUNTED 6' FROM END OF MASTARM EXTEND INTO H.H. 9
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20
 1-3/C#12 (LUM)

SIGNAL INDICATIONS									
DIMENSIONS ARE SHOWN IN INCHES									
FACE	PHASE	FLASH	R	Y	G	RLTA	YLTA	GLTA	
J-1	1		R				←	←	←
1-2	1						←	←	←
2-1	2								
2-2	2								
4-1	4								
4-2	4								
4-3	4								
5-1	5						←	←	←
5-2	5						←	←	←
6-1	6								
6-2	6								
8-1	8								
8-2	8								
8-3	8								

DETECTOR FUNCTIONS WILL BE SET IN THE CONTROLLER



- NOTES:**
- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - SEE SPECIAL PROVISIONS FOR "LED" SIGNAL AND PEDESTRIAN INDICATIONS.
 - SIGNAL SYSTEM FLASH MODE SHALL BE ALL RED.
 - A 3/4" HALF COUPLING, 3/4" NIPPLE AND CONDUIT OUTLET BODY FOR EVP DETECTION SHALL BE INSTALLED 6' FROM THE END OF THE MASTARM. A 3/C#20 SHALL BE WIRED DIRECT TO THE CONDUIT OUTLET BODY. 2-1/C#14 FROM TERMINAL BLOCK IN SIGNAL BASE TO THE CONDUIT OUTLET BODY.
 - ALL HANDHOLES SHALL BE PVC WITH METAL RINGS AND COVERS.
 - * DENOTES FURNISH & INSTALL (F&I).

2

PA90 POLE FOUNDATION
 TYPE PA90-A25-D40-9 (DAVIT AT 350°)
 ONEWAY SIGNAL (OVERHEAD) END MOUNTED
 1-TYPE 10B POLE MOUNTED AT 90°
 1-TYPE 10A POLE MOUNTED AT 180°
 LUMINAIRE-250 WATT HPS
 2-PEDESTRIAN PUSHBUTTONS AND SIGNS (R10-3d & R10-4b)
 ONEWAY EVP CONDUIT OUTLET BODY, DETECTOR AND CONFIRMATORY LIGHT MOUNTED 6' FROM END OF MASTARM EXTEND INTO H.H. 4
 3" RSC
 1-12/C#12
 3-3/C#12
 1-3/C#20
 2-3/C#12 (LUM)

1

PA100 POLE FOUNDATION
 TYPE PA100-A30-D40-9 (DAVIT AT 350°)
 ONEWAY SIGNAL (OVERHEAD) END MOUNTED
 ONEWAY SIGNAL (OVERHEAD) MID MASTARM MOUNTED 12' FROM END
 2-TYPE 10A POLE MOUNTED AT 90° AND 180°
 LUMINAIRE-250 WATT HPS
 2-PEDESTRIAN PUSHBUTTONS AND SIGNS (R10-3d & R10-4b)
 ONEWAY EVP CONDUIT OUTLET BODY, DETECTOR AND CONFIRMATORY LIGHT MOUNTED 6' FROM END OF MASTARM EXTEND INTO H.H. 17
 3" RSC
 2-12/C#12
 2-3/C#12
 1-3/C#20
 2-3/C#12 (LUM)

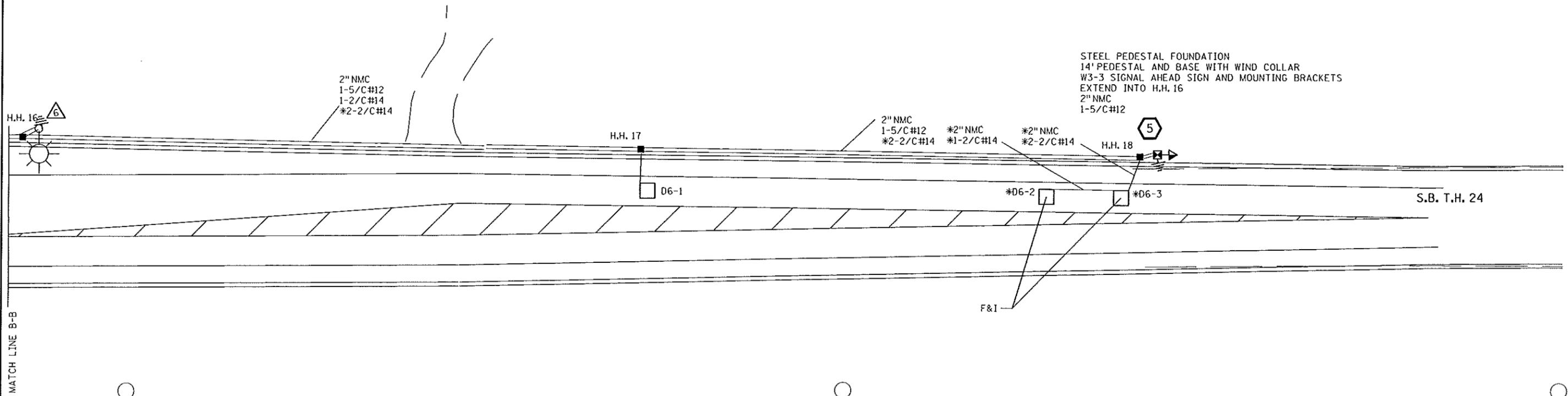
EQUIPMENT PAD (SEE DETAIL)
 CONTROLLER AND CABINET
 SERVICE CABINET (PAD MOUNTED)

B 2" RSC RISER AND WEATHERHEAD WITH 3-1/C#2 TO S.O.P.

A SERVICE CABINET TO:
 H.H. 1 H.H. 17 CONTROLLER CABINET
 2" RSC 2" RSC 2" RSC
 2-3/C#12 2-3/C#12 2-1/C#6
 *2-2/C#14 *2-2/C#14 1-1/C#6 INS. GR.

ID. NO. 22141
 T.E. NO. 5433
 SHEET 2 OF 3

CERTIFIED BY *Don Jacobs* LIC. NO. 25526
 LICENSED PROFESSIONAL ENGINEER



NOTES:
1. * DENOTES FURNISH & INSTALL (F&I).

SHEET 3 OF 3

CONSTRUCTION PLAN

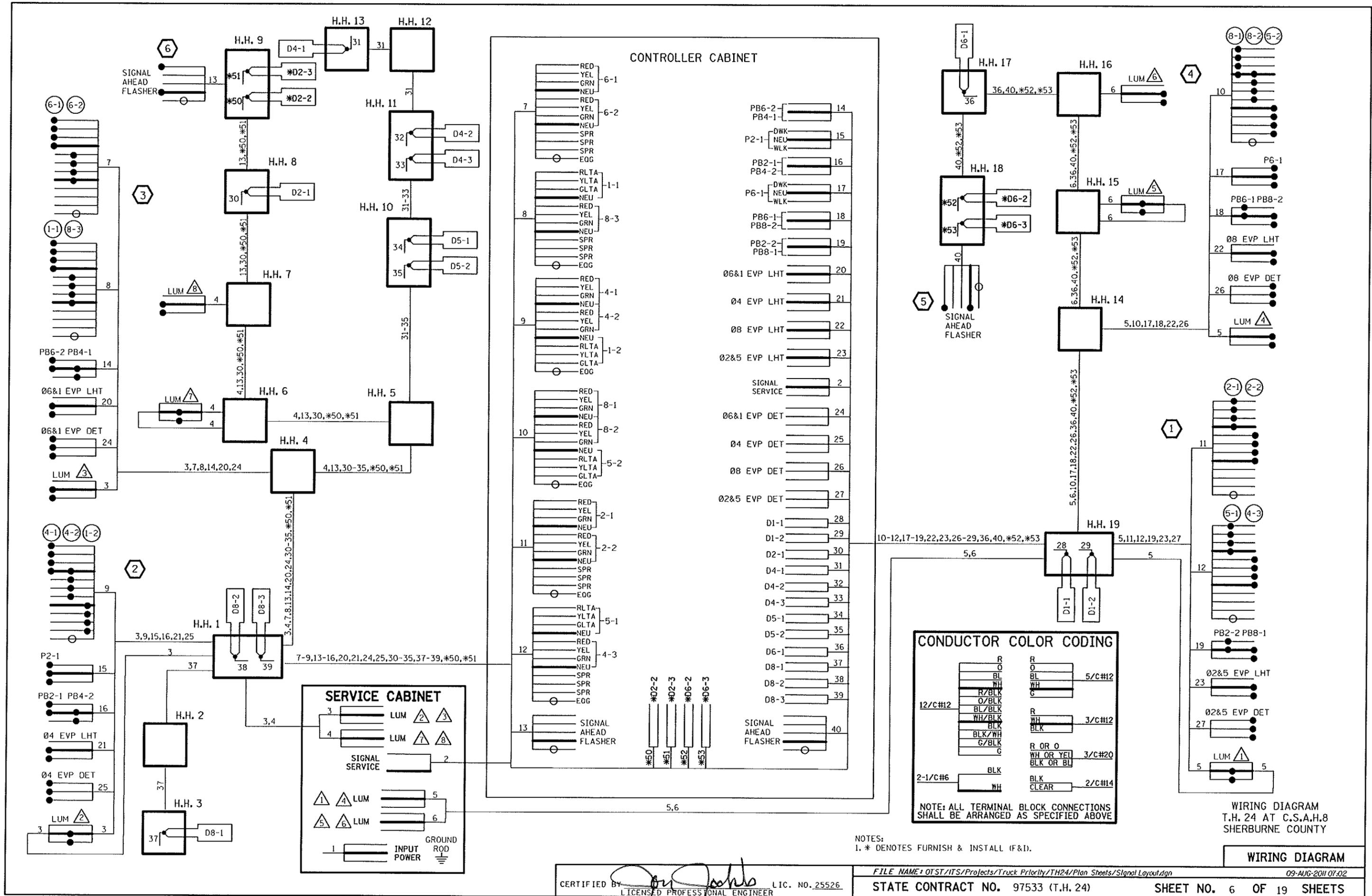
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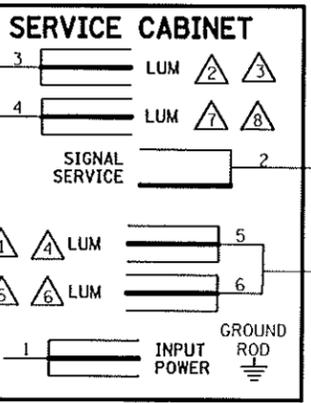
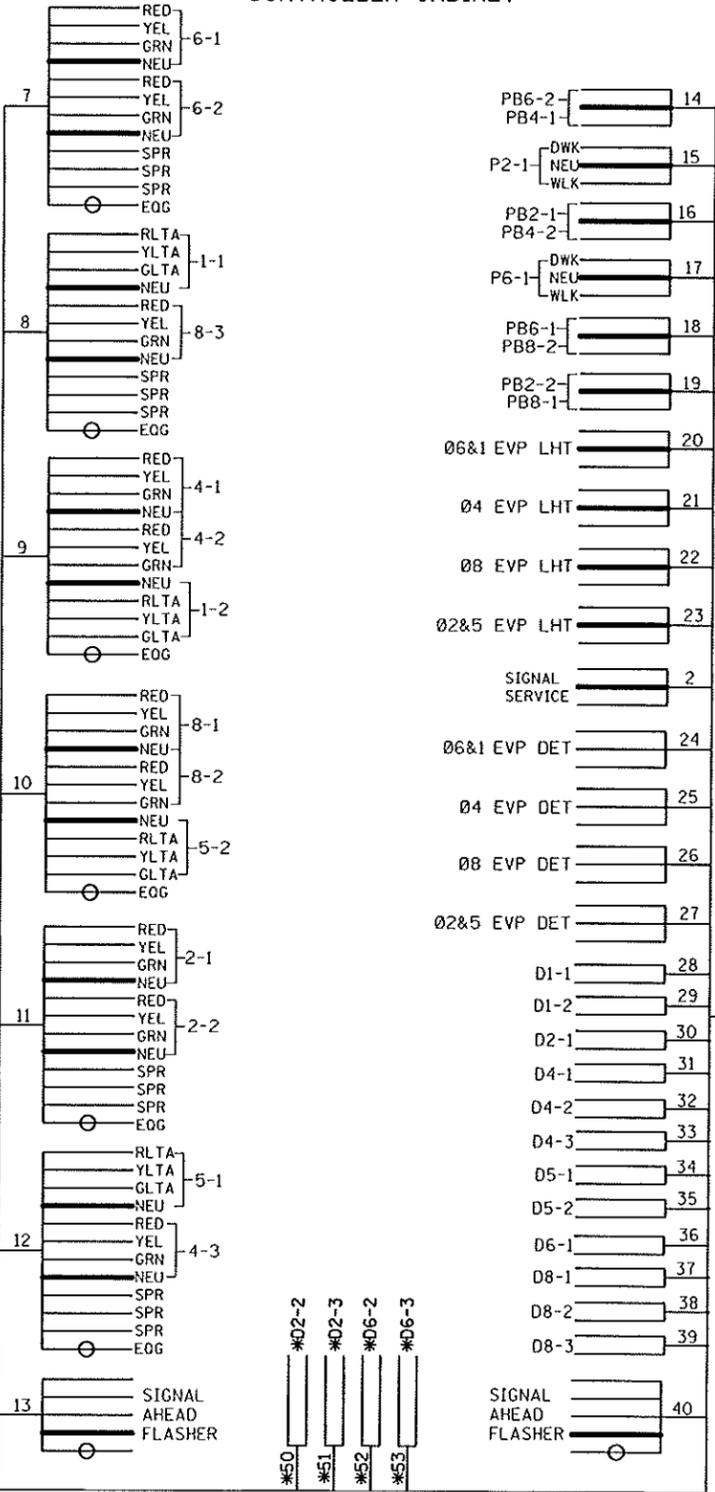
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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 5 OF 19 SHEETS



CONTROLLER CABINET



CONDUCTOR COLOR CODING

12/C#12	R	R	
	O	O	
	BL	BL	5/C#12
	WH	WH	
	R/BLK	C	
	O/BLK		
	BL/BLK	R	3/C#12
	WH/BLK	WH	
	BLK	BLK	
	BLK/WH	R OR O	3/C#20
	G/BLK	WH OR YEL	
		BLK OR BL	
2-1/C#6	BLK	BLK CLEAR	2/C#14
	WH		

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE

NOTES:
1. * DENOTES FURNISH & INSTALL (F&I).

CERTIFIED BY *[Signature]* LIC. NO. 25526
LICENSED PROFESSIONAL ENGINEER

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STATE CONTRACT NO. 97533 (T.H. 24)

99-AUG-2011 07:02
SHEET NO. 6 OF 19 SHEETS

WIRING DIAGRAM
T.H. 24 AT C.S.A.H.8
SHERBURNE COUNTY

WIRING DIAGRAM

NOTES & GUIDELINES

GENERAL INFORMATION

1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED. IN PLACE SIGNING MUST ALSO BE MAINTAINED OR TEMPORARILY RELOCATED FOR CONSTRUCTION ACTIVITIES.
2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER.
3. ALL DISTANCES ARE APPROXIMATE. PLANS ARE NOT DRAWN TO SCALE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MNMUTCD.
5. AN ANNUAL FALL REVIEW OF ALL TRAFFIC CONTROLS WILL BE MADE TO PREPARE FOR WINTER MAINTENANCE OF THE PROJECT. THIS MAY INCLUDE ADJUSTMENTS OR EXCHANGE OF ONE TRAFFIC CONTROL DEVICE FOR ANOTHER. READJUSTMENTS MAY AGAIN BE REQUIRED IN THE SPRING.
6. SIGN INSTALLATIONS SHALL NOT OBSTRUCT EXISTING SIGNS.
7. QUANTITIES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND ARE SHOWN FOR INFORMATIONAL ONLY. THE ITEM "TRAFFIC CONTROL" COVERS ALL DEVICES SHOWN ON THE PLAN SHEETS AND OTHER SETUPS REQUIRED BY THE CONTRACTOR'S OPERATIONS.
9. DURING NIGHTTIME OPERATIONS, ILLUMINATE THE WORK SPACE WITH PORTABLE LIGHTS. ALL WORKERS ARE REQUIRED TO WEAR RETROREFLECTIVE CLOTHING. (HAT, VEST & PANTS) SEE MINNESOTA FLAGGING HAND BOOK FOR MORE DETAIL.

SIGNING

1. ALL TRAFFIC CONTROL DEVICES, INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
2. WHEN SIGNS ARE INSTALLED, THEY SHALL BE MOUNTED ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS DETAILED IN THE ATTACHED TYPICAL SIGN FRAMING AND INSTALLATION DETAILS. IF THIS IS NOT POSSIBLE, THEY WILL BE MOUNTED ON PORTABLE SUPPORTS AS APPROVED BY THE ENGINEER. WHEN THE SIGNS ARE REMOVED THE SIGN POSTS SHALL ALSO BE REMOVED WITHIN 2 WEEKS (5-18.4(B)).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING TRAFFIC FROM ONE STAGE TO ANOTHER.
4. ALL ORANGE WARNING AND ORANGE GUIDE SIGNS SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MN/DOT APPROVED PRODUCT LIST FOR "SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS".

BARRICADES SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MN/DOT APPROVED PRODUCT LIST FOR BARRICADE SHEETING.
NOTE THAT ASTM TYPE VII SHEETING IS NOT ALLOWED ON BARRICADES AFTER JANUARY 1, 2010.
5. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" FIELD MANUAL UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
6. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE INSTALLED AS NEEDED, OR PROVIDE TEMPORARY SIGNING AT THEIR EXPENSE UNTIL THE FINAL SIGNING IS INSTALLED.

TRAFFIC CONTROL TITLE SHEET

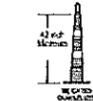
-  - TYPE A FLASHING WARNING LIGHTS
-  - CHANNELIZING DEVICE
-  - SIGN (SHOWN FACING LEFT)
-  - FLAGGER

INDEX
TRAFFIC CONTROL

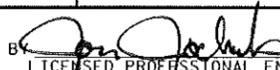
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7	TITLE SHEET AND TABULATION
8 - 13	STAGE 1 TRAFFIC CONTROL
14 - 19	STAGE 2 TRAFFIC CONTROL

TRAFFIC CONTROL PAY ITEM TABULATION

<u>"W" SERIES</u>			
<u>SIGN</u>	<u>SIGN NO.</u>	<u>COLOR</u>	<u>SIZE (INCHES)</u>
	W20-1	BLACK ON ORANGE	48 X 48
	W20-4M	BLACK ON ORANGE	48 X 48
	W3-4	BLACK ON ORANGE	48 X 48
	W20-7	BLACK ON ORANGE	48 X 48

<u>DEVICES</u>			
<u>SIGN</u>	<u>SIGN NO.</u>	<u>COLOR</u>	<u>SIZE (INCHES)</u>
			42

TRAFFIC CONTROL TITLE SHEET

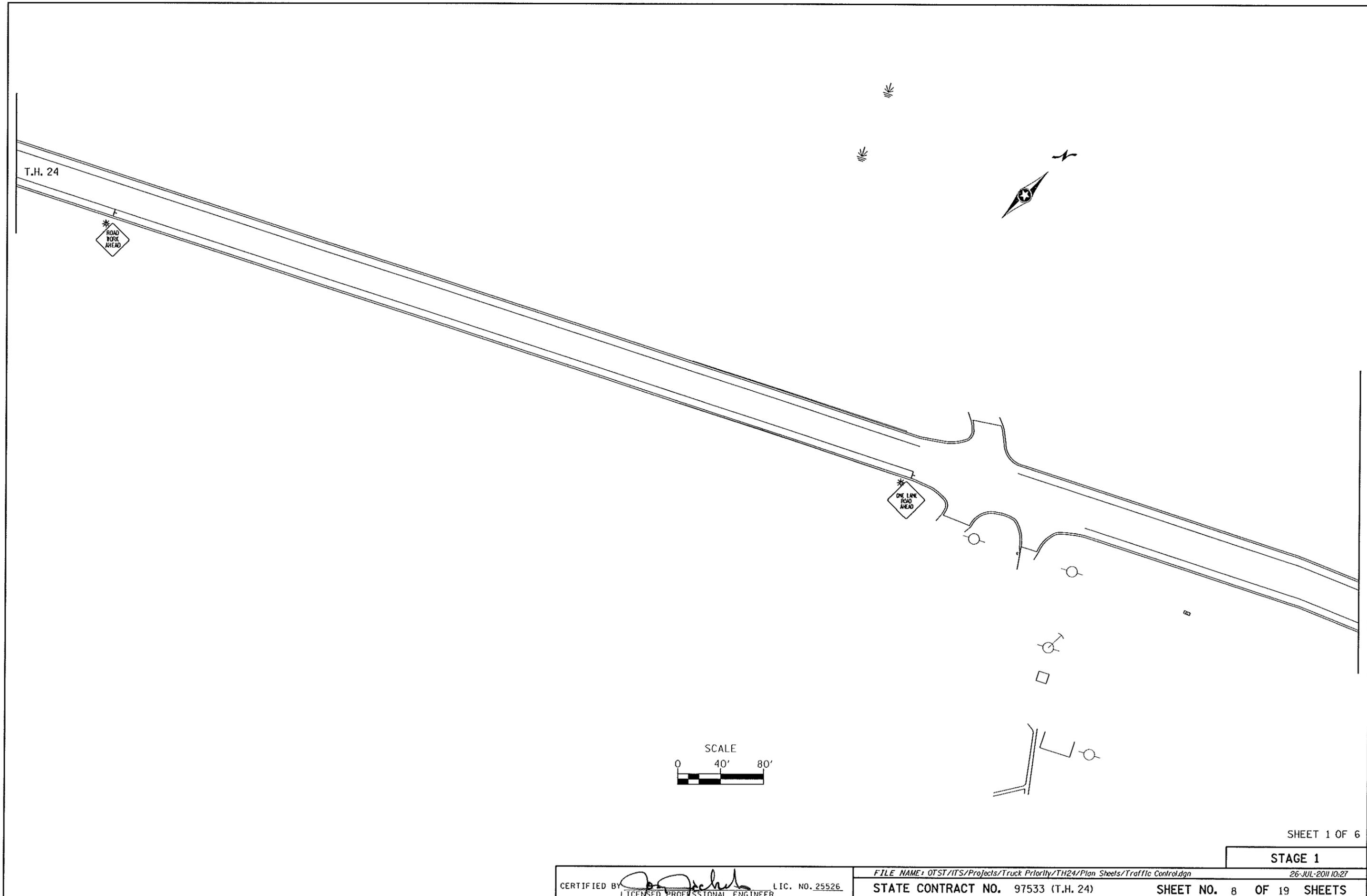
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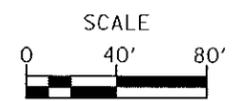
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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 7 OF 19 SHEETS



T.H. 24



SHEET 1 OF 6

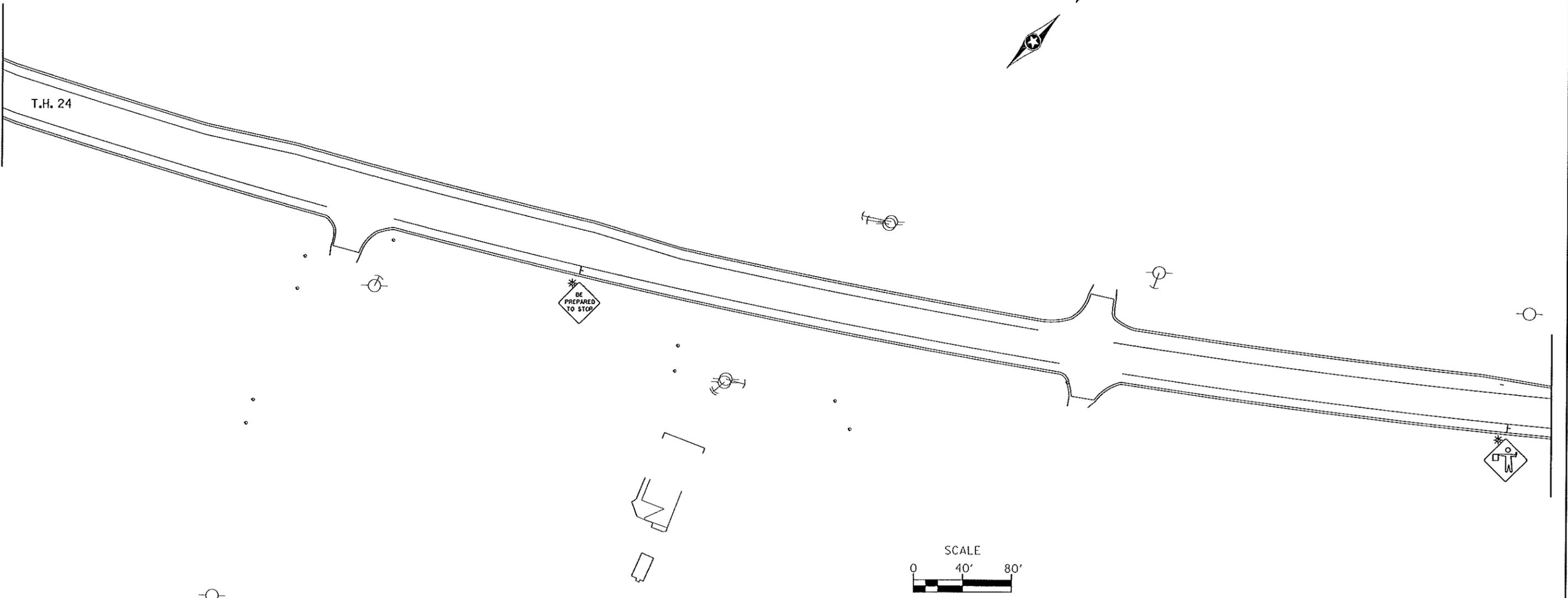
STAGE 1

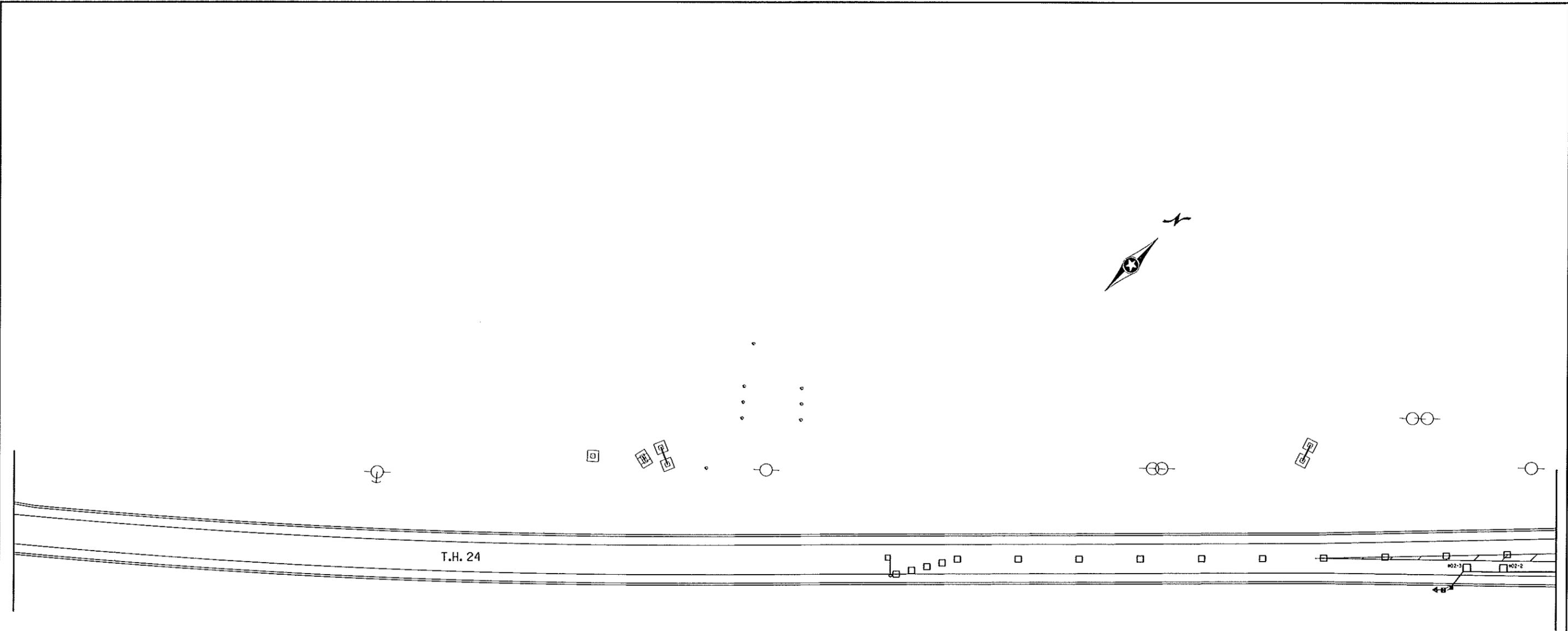
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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 8 OF 19 SHEETS





T.H. 24



SHEET 3 OF 6

STAGE 1

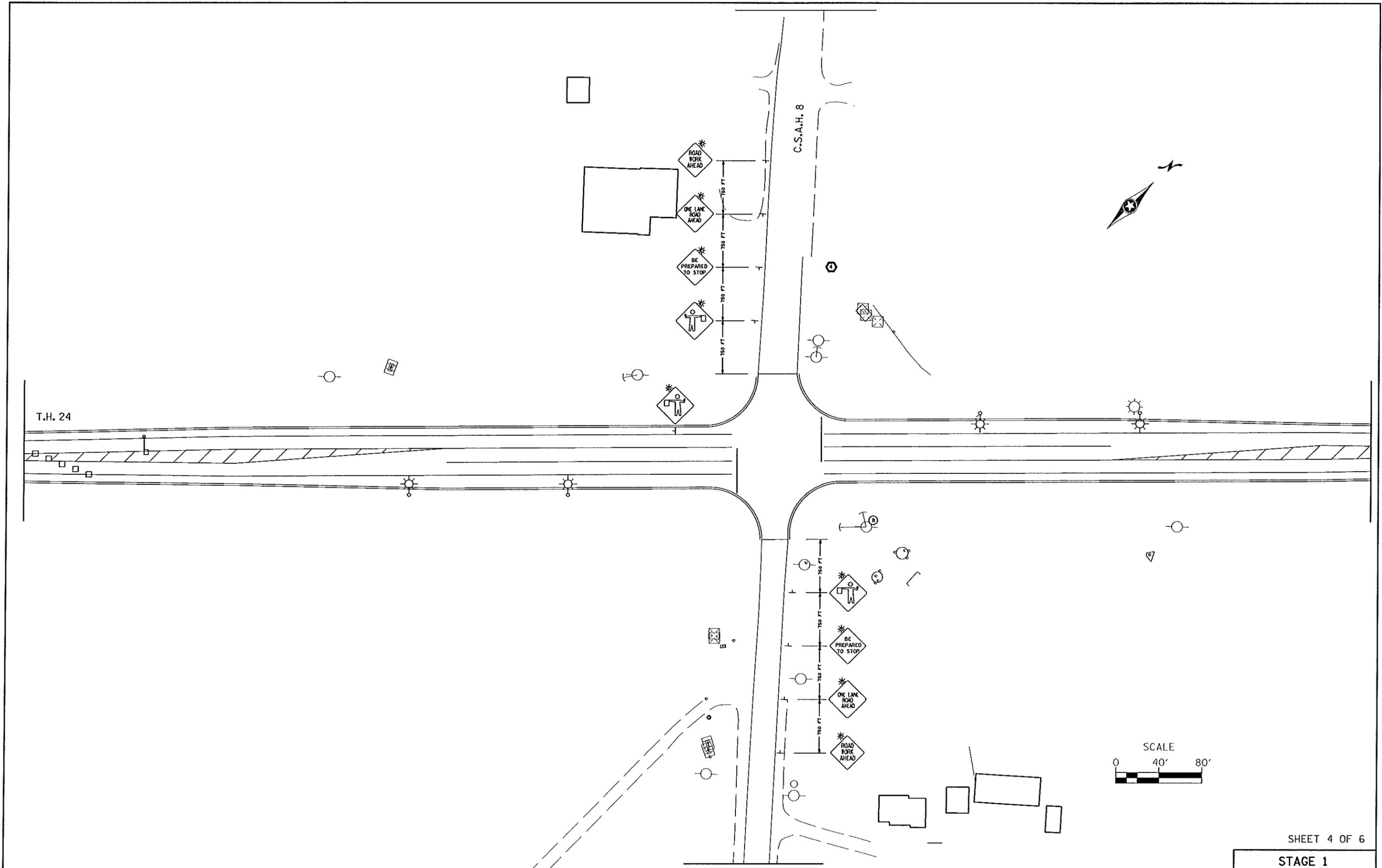
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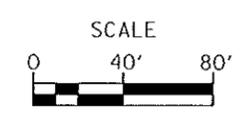
STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 10 OF 19 SHEETS



T.H. 24

C.S.A.H. 8



SHEET 4 OF 6

STAGE 1

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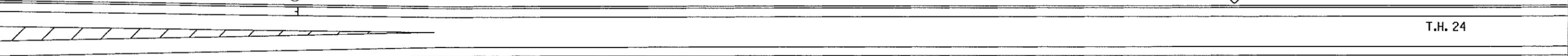
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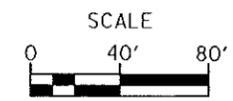


T.H. 24





T.H. 24



SHEET 6 OF 6

STAGE 1

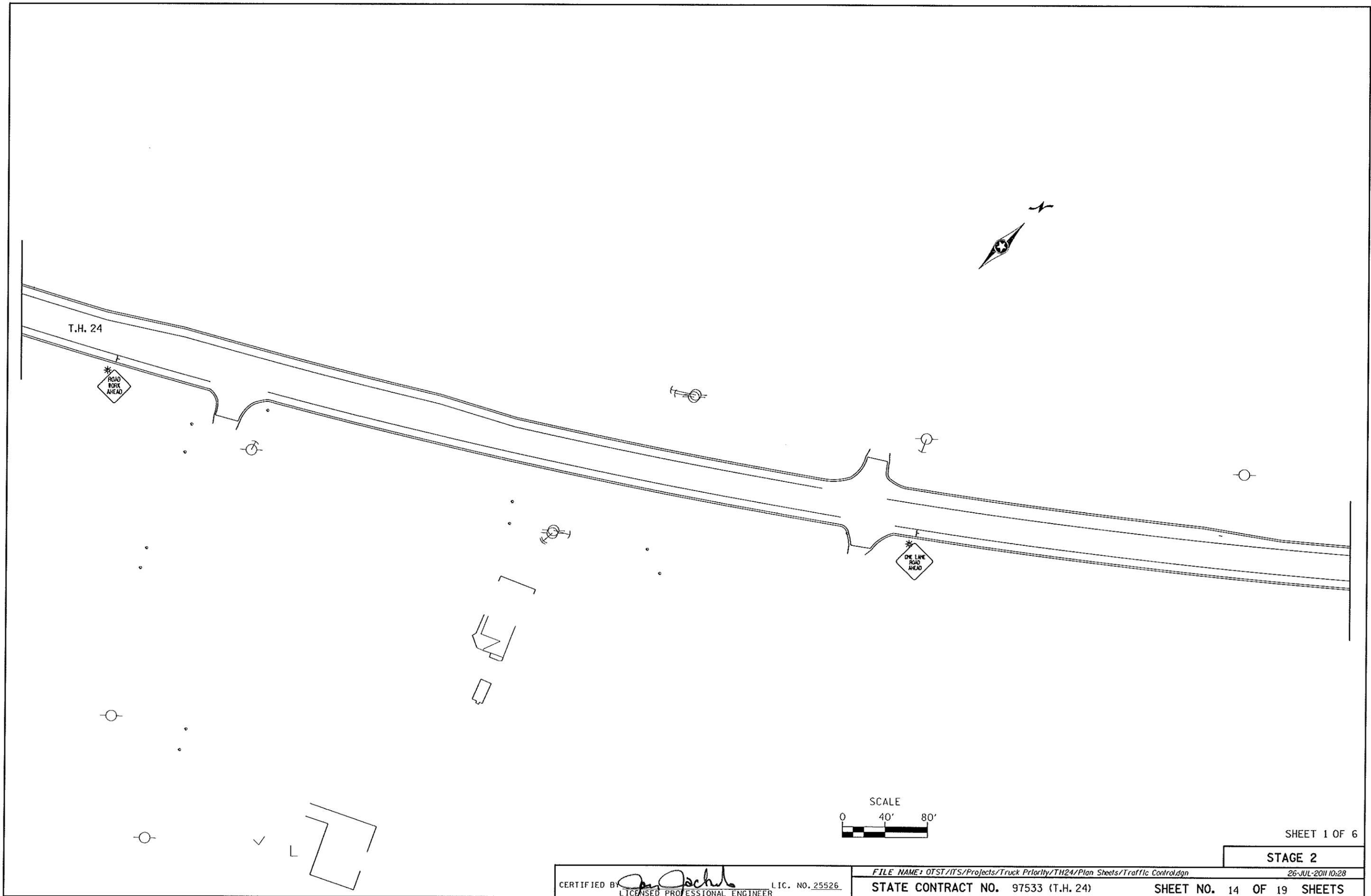
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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 13 OF 19 SHEETS



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 LICENSED PROFESSIONAL ENGINEER

FILE NAME: OTST/ITS/Projects/Truck Priority/TH24/Plan Sheets/Traffic Control.dgn

26-JUL-2011 10:28

STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 14 OF 19 SHEETS



T.H. 24

BE
PREPARED
TO STOP



SHEET 2 OF 6

STAGE 2

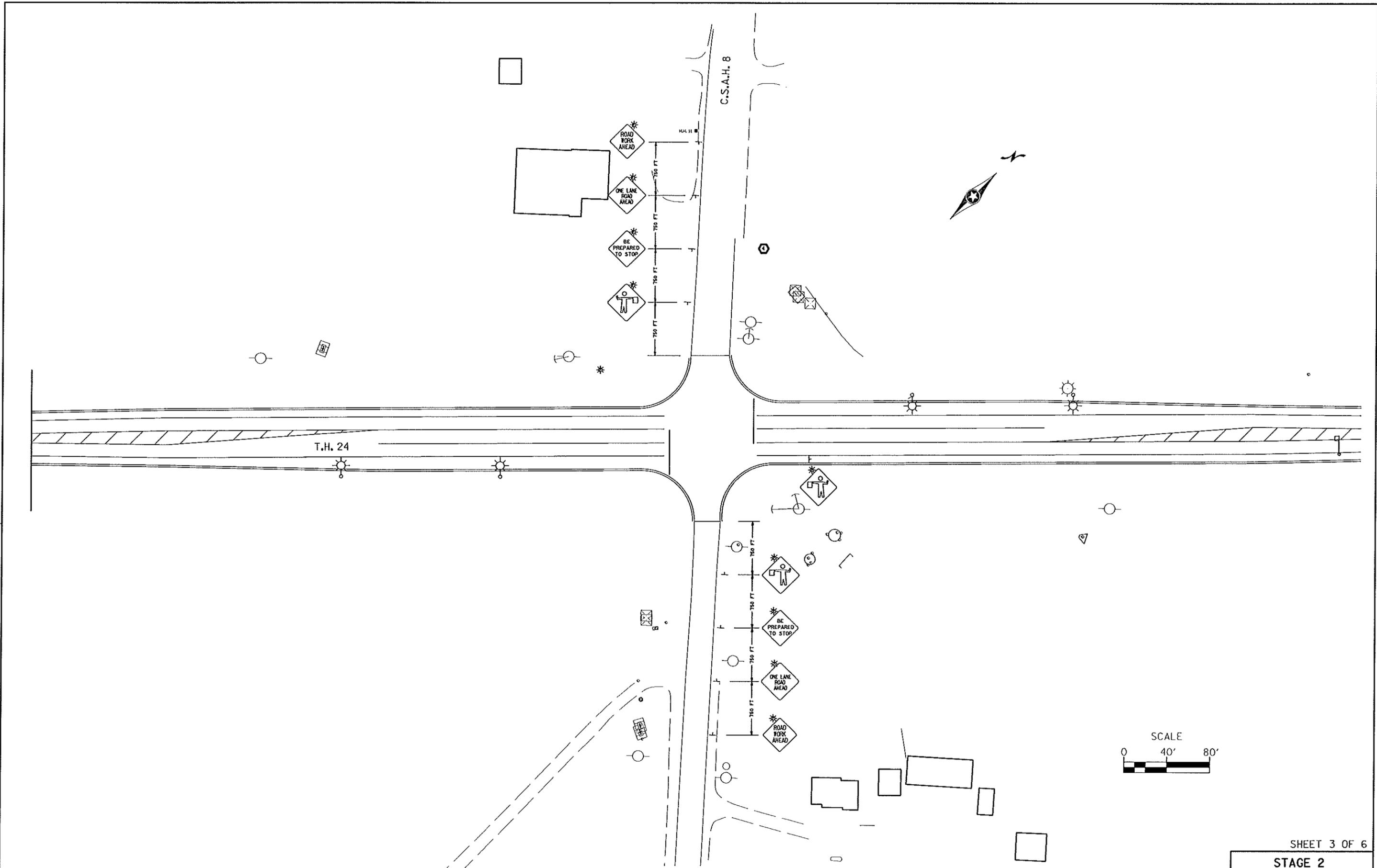
CERTIFIED BY *James Jacob* LIC. NO. 25526
LICENSED PROFESSIONAL ENGINEER

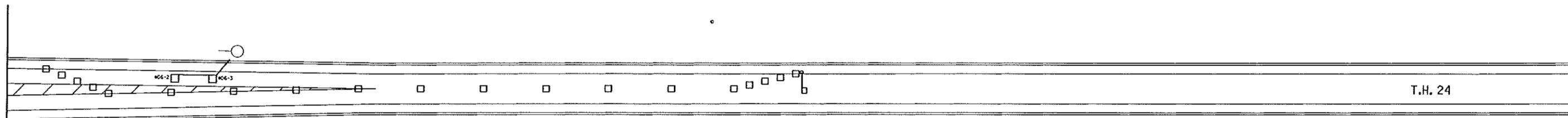
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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 15 OF 19 SHEETS





T.H. 24



SHEET 4 OF 6

STAGE 2

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STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 17 OF 19 SHEETS



T.H. 24



SHEET 5 OF 6

STAGE 2

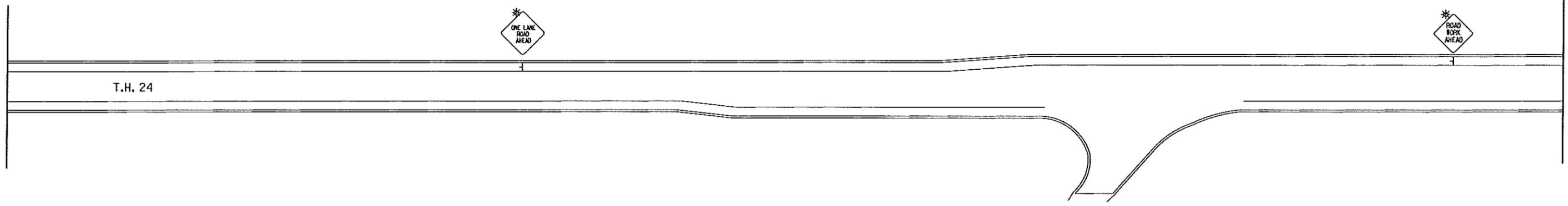
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LICENSED PROFESSIONAL ENGINEER

FILE NAME: OTST/ITS/Projects/Truck Priority/TH24/Plan Sheets/Traffic Control.dgn

26-JUL-2011 10:28

STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 18 OF 19 SHEETS



T.H. 24



SHEET 6 OF 6

STAGE 2

CERTIFIED BY *Jon Jacobs* L.I.C. NO. 25526
 LICENSED PROFESSIONAL ENGINEER

FILE NAME: OTST/ITS/Projects/Truck Priority/TH24/Plan Sheets/Traffic Control.dgn 26-JUL-2011 10:28

STATE CONTRACT NO. 97533 (T.H. 24)

SHEET NO. 19 OF 19 SHEETS