

ERIE COUNTY WATER AUTHORITY
AUTHORIZATION FORM
For Approval/Execution of Documents
(check which apply)

Contract: _____ **Project No.:** 202000150
Project Description: Niagara Falls Blvd. Pedestrian Safety Design, Towns of Tonawanda & Amherst, Erie County, PIN 5308.38

Item Description:






<input type="checkbox"/> Agreement	<input type="checkbox"/> Professional Service Contract	<input type="checkbox"/> Amendment	<input type="checkbox"/> Change Order
<input type="checkbox"/> BCD	<input checked="" type="checkbox"/> NYSDOT Agreement	<input type="checkbox"/> Contract Documents	<input type="checkbox"/> Addendum
<input type="checkbox"/> Recommendation for Award of Contract	<input type="checkbox"/> Recommendation to Reject Bids		
<input type="checkbox"/> Request for Proposals			
<input type="checkbox"/> Other _____			

Action Requested:


<input checked="" type="checkbox"/> Board Authorization to Execute	<input checked="" type="checkbox"/> Legal Approval
<input type="checkbox"/> Board Authorization to Award	<input type="checkbox"/> Execution by the Chairman
<input type="checkbox"/> Board Authorization to Advertise for Bids	<input type="checkbox"/> Execution by the Secretary to the Authority
<input type="checkbox"/> Board Authorization to Solicit Request for Proposals	
<input type="checkbox"/> Other _____	

Approvals Needed:

APPROVED AS TO CONTENT:

<input checked="" type="checkbox"/> Other (if Applicable)		Date: 5/12/2020
<input checked="" type="checkbox"/> Chief Operating Officer		Date: 5/8/2020
<input checked="" type="checkbox"/> Executive Engineer		Date: 05/13/2020
<input type="checkbox"/> Director of Administration	_____	Date: _____
<input type="checkbox"/> Risk Manager	_____	Date: _____
<input checked="" type="checkbox"/> Chief Financial Officer		Date: 05/08/2020
<input checked="" type="checkbox"/> Legal		Date: 05/13/2020

APPROVED FOR BOARD RESOLUTION:

<input checked="" type="checkbox"/> Secretary to the Authority		Date: 05/13/2020
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Remarks: Adjustment of ECWA facilities (valve boxes) under contract item

Resolution Date: _____ **Item No:** _____



May 7, 2020

Leonard F. Kowalski, P.E., Executive Engineer
Erie County Water Authority
3030 Union Road
Cheektowaga, NY 14227

**RE: NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
TOWNS OF TONAWANDA AND AMHERST
ERIE COUNTY
PIN 5308.38, D264244**

Dear Mr. Kowalski:

Until further notice, the New York State Department of Transportation (NYSDOT), Region 5, Utility Unit will be sending two (2) versions of this document package: a hard copy and an electronic copy. Please return the hard copy version, by USPS. The electronic package may be returned by USPS or electronically to Utility.Unit.R05@dot.ny.gov. The electronic version must be signed **physically**, not electronically. All scanning must be done at 300 dpi. Please find the additional instructions in the cover letter below. If you have any questions or concerns, please contact us via one of the methods listed at the end of this letter.

Enclosed is an electronic copy of the proposed contract plans for the above-referenced project. The Erie County Water Authority has existing facilities within the project limits. The Erie County Water Authority's involvement in this project consists of adjustment of valve box elevations. The details of the adjustment are shown on the Project Plans included with this letter.

Also enclosed are four (4) sets of documents which include the Utility Work Agreement (HC-140) and the Coordination Note. Each of the four (4) HC-140 forms must be duly approved by an authorized representative of the Erie County Water Authority. **Work included in the State's contract and performed by the State contractor will be done at no expense to the Erie County Water Authority.**

This agreement also requires four (4) copies of a Certified Resolution by your governing body as stated in Section VI – References, of the Utility Work Agreement (HC-140). Each copy must be signed and have a seal affixed to it.

Enclosed is a sample of a Certified Resolution granting the State of New York authority to perform the facility adjustments per contract documents, agreeing to maintain facilities, and authorizing a municipal official to enter agreements with the State of New York.

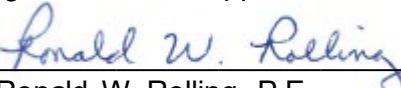
Leonard F. Kowalski, P.E., Executive Engineer
PIN 5308.38, D264244
May 7, 2020
Page 2 of 2

Both physical and electronic packages need to be returned. Please return four (4) physical original sets of the signed agreement with attachments, Coordination Note, and Certified Resolution to Mr. Ronald Rolling, Regional Utilities Engineer, at 100 Seneca Street, Buffalo, NY 14203. **The physical documents should be returned as soon as possible, but no later than two (2) weeks from the date of the lifting of the executive order "New York State on PAUSE"**. The documents sent electronically are to be returned by **June 10, 2020**. One (1) copy of the fully executed agreement will be returned for your records.

Any questions regarding work to be done may be directed to Mr. Thomas Richards, Design Job Manager (DJM), at (716) 847-3127 or via e-mail at Thomas.Richards@dot.ny.gov. Questions regarding these forms can be directed to Mr. Ronald Rolling, Regional Utilities Engineer, at (716) 847-3954 or via e-mail at Ronald.Rolling@dot.ny.gov.

Sincerely,

David J. Hill, P.E.
Assistant Regional Design Engineer
Design Technical Support Unit

By: 
Ronald W. Rolling, P.E.
Regional Utilities Engineer

DJH/RWR/EJC/AJP/kar

Enclosures: Project Plans, Utility Work Agreement (HC-140), Coordination Note, and Certified Resolution sample

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION
UTILITY WORK AGREEMENT**

Since the construction, reconstruction, or maintenance of the transportation project described below, identified as:

Project Identification No.: 5308.38	F.A. Project No.:
ROW Declaration No.:	Map Nos.:
Parcel Nos.:	County of: Erie
Contract No.: D264244	

Project Description: Niagara Falls Boulevard Pedestrian Safety Design Town of Tonawanda and Town of Amherst, Erie County Municipality, ILE, Reimbursable
--

necessitates the adjustment of utility facilities as hereinafter described, the owner, **Erie County Water Authority**, of said facilities herewith agrees with the State of New York acting through the Commissioner of Transportation that this agreement shall apply to the accommodation of these utility facilities. Any adjustment of said facilities will be accomplished under the terms of this agreement, in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way, in compliance with the attached Special Note, "Coordination with the Utility Schedule", and in accordance with the contract plans, specifications, proposal, amendment(s) or change order(s).

I. Existing Facilities (describe type, size, capacity, location, etc.)

Erie County Water Authority has existing waterline within the highway boundary of US-62 (Niagara Falls Boulevard).

presently located on **NY State Right-of-Way** as shown on the plans for the proposed transportation project are to be adjusted as follows: (describe type, size, capacity, location, etc.)

Adjust valve box elevations.

per contract documents

for an estimated \$ N/A

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION
UTILITY WORK AGREEMENT**

II. Financial Responsibility (check appropriate boxes):

- The facilities to be adjusted under the terms of this agreement are subject to Section 52 of the State Highway Law, and the cost of this adjustment is the sole responsibility of the owner.
- Subdivision 24 of Section 10 of the State Highway Law enables the Commissioner of Transportation to provide, at the expense of the State, for adjustment to a municipally owned utility when such work is necessary as a result of State highway work. (Municipal Agreement if required.)
- Subdivision 24-b of Section 10 of the State Highway Law enables the Commissioner of Transportation to participate in the necessary expenses incurred for adjustment of privately, publicly, or cooperatively owned facilities, municipal utility facilities, or facilities of a corporation organized pursuant to the State Transportation Corporations Law. (Privately Owned Property Agreement or Reimbursement Agreement required.)
- Subdivision 27 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a municipality, to perform for and at the expense of such municipality specified work to be included within a State-let contract. (Betterment Resolution required.)
- Subdivision 33 of Section 10 of the State Highway Law enables the Commissioner of Transportation, upon the request of a public utility corporation, to perform for and at the expense of such public utility corporation specified work to be included within a State-let contract.
- Subdivision 13 of Section 30 of the State Highway Law enables the Commissioner of Transportation to enter into an agreement to reimburse with public funds the owner for necessary expenses incurred as a result of this adjustment, or to replace the facilities in kind.
- The owner will develop and keep a record of costs in accordance with the New York State Department of Transportation (NYSDOT) Reimbursement Procedures, and when federal funds participate in the cost, the Federal Highway Administration (FHWA) Federal-Aid Policy Guide Part 645, or as indicated below:

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION
UTILITY WORK AGREEMENT**

III. Physical Adjustment Method (check appropriate boxes):

The actual adjustment or design engineering will be performed by the following method (s):

- Contract let by the Commissioner.
- Contract let by the Owner. (check applicable statement, i.e., a or b)
 - a. Best Interests of State.
 - b. Utility not sufficiently staffed or equipped.
- By the Owner's forces.

IV. Betterment, Salvage, and Depreciation Credits Due the Project (check appropriate boxes):

- There will be no extension of service life, improved capacity, nor any other betterment of the facility (as defined by the NYSDOT Utility Reimbursement Procedures and by FHWA Federal-Aid Policy Guide Part 645) as a result of the adjustments made pursuant to this agreement.
- There is betterment described as follows:

- The owner will not claim reimbursement for that betterment portion of the work, but will duly account for it as required by applicable NYSDOT and FHWA procedures.
- The owner hereby agrees to deposit with the Comptroller of the State of New York the amount of \$_____ to cover the cost of the betterment as described above.
- The owner agrees to comply with the requirements of the NYSDOT Utility Reimbursement Procedure and FHWA Federal-Aid Policy Guide Part 645 with the respect to salvage and depreciation credits when applicable.

V. General Covenants

The owner hereby agrees to accept full title and responsibility for the adjusted facility in writing upon satisfactory completion of the work. Such acceptance will acknowledge the owner's responsibility to maintain the facility in accordance with all applicable codes, standards and regulations, including his obligation, where applicable, to remove any or all of the facility from the highway at the order of the Commissioner of Transportation, all in accordance with the Rules and Regulations Governing the Accommodation of Utilities within the State Highway Right-of-Way. All compensable claims covered by this agreement will be included in one of the following:

- A. Privately Owned Property Agreement executed prior to the performance of the work.
- B. Municipal Agreement executed prior to performance of the work.
- C. Reimbursement Agreement executed prior to performance of the work.
- D. Such other agreement as approved by NYSDOT Office of Legal Affairs.

**NEW YORK STATE DEPARTMENT OF TRANSPORTATION
UTILITY WORK AGREEMENT**

VI. References

The following documents are herewith incorporated in this agreement by reference (check appropriate boxes)

- Federal Highway Administration's Federal-Aid Policy Guide Part 645.
- Contract documents: Contract Number D264244
PIN: 5308.38
Plan Sheets No.: Electronic copy of the proposed contract plans
- Owner's Plan Sheets _____
- Owner's Estimate Sheets Form No. FIN 223c
- Resolution dated _____, by _____
 - Granting the State of New York authority to perform the adjustment for the owner.
 - Agreeing to maintain facilities adjusted via State-let contract.
 - Authorizing deposit of funds by the owner.
- Certification by the owner or his agent that he has the legal authority to enter into this agreement.

(Print/Type Name) Owner or Agent (Signature) Title Date

Arvind K. Salgam, P.E.
For the NYSDOT Commissioner of Transportation

Statewide Utilities Engineer
Title Date

SPECIAL NOTE**COORDINATION WITH THE UTILITY SCHEDULE**

The contractor must coordinate their schedule of operations with the various utility owners involved with the project and shall verify utility information found in the contract documents. Utility revisions required by the various utility owners in connection with this project include:

Erie County Water Authority**Utility Field Contact:**

Leonard F. Kowalski, P.E., Executive Engineer
Erie County Water Authority
3030 Union Road
Cheektowaga, New York 14227
D: (716) 685-8220
O: (716) 684-1510
C: (716) 341-1137
F: (716) 684-8397
lkowalski@ecwa.org

Erie County Water Authority has the following:

existing waterline within the highway boundary of US-62 (Niagara Falls Boulevard).

Reimbursable work to be done by the State's contractor:

The project requires adjust valve box elevations per contract documents.

The work is to be done by the State's contractor and paid by contract items.

The State's Engineer-In-Charge, in coordination with the State's contractor, shall notify the Erie County Water Authority in writing **2 weeks** before commencing work on their facilities.

The State's Engineer-In-Charge will provide record plans to the Erie County Water Authority.

Additional Notes

1. The Contractor is governed by and must adhere to the provisions of 16 NYCRR Part 753 (Protection of Underground Facilities).
2. The State's contractor shall verify utility information found in the contract documents. The State's contractor shall notify the State's Engineer-In-Charge of any discrepancies that are found.

3. In addition to the above-itemized facility adjustments, other adjustments may become necessary during the construction phase as a result of more precise location data or other changes that might develop.
4. The Standard Specifications shall apply to all utility facility adjustments.
5. Any additional adjustments shall be performed by the utility owners and/or the State's contractor upon direction by the State's Engineer-In-Charge.
6. Suitable time frames for the additional work shall be coordinated between the State's Engineer-In-Charge, the State's contractor, and the affected utility owners. Such time frames shall not be included within previously established time frames.

END OF COORDINATION WITH THE UTILITY SCHEDULE

Resolution Granting the State of New York Authority to Perform the Adjustment for the Owner and Agreeing to Maintain Facilities Adjusted Via State-let Contract

RESOLUTION

Resolution # _____

WHEREAS, the New York State Department of Transportation proposes the construction, reconstruction, or improvement of **state project name from cover letter** in the **name of municipality** located in **county name** county, PIN **enter PIN**, and

WHEREAS, the State will include as part of the construction, reconstruction, or improvement of the above mentioned project the **work to be done** pursuant to Section 10, Subdivision 24, of the State Highway Law, as shown on the contract plans relating to the project and meeting the requirements of the owner, and

WHEREAS, the service life of the relocated and or replaced utilities has not been extended, and

WHEREAS, the State will provide for the reconstruction of the above mentioned work, as shown on the contract plans relating to the above mentioned project.

NOW, THEREFORE,

BE IT RESOLVED: That the **name of municipality** approves of the **work to be done** and the above mentioned work performed on the project and shown on the contract plans relating to the project and that the **name of municipality** will maintain or cause to be maintained the adjusted facilities performed as above stated and as shown on the contract plans.

BE IT FURTHER RESOLVED: that **name** has the authority to sign, with the concurrence of the **board**, any and all documentation that may become necessary as a result of this project as it relates to the **name of municipality**, and

BE IT FURTHER RESOLVED: That the clerk of the **name of municipality** is hereby directed to transmit five (5) certified copies of the foregoing resolution to the New York State Department of Transportation.

Moved By:
Seconded By:
Vote:

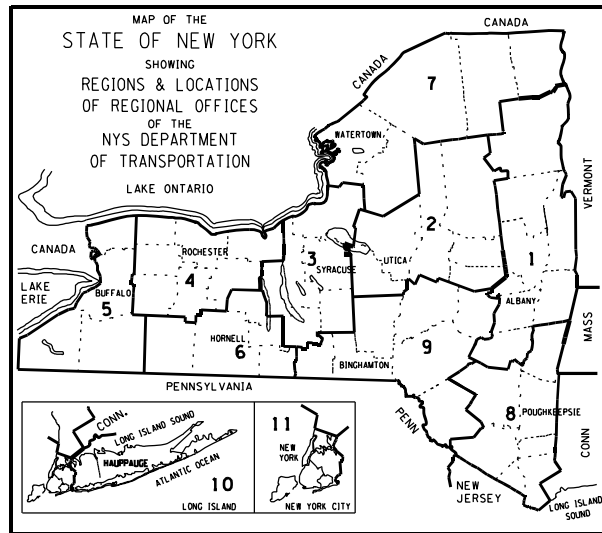
I, _____, duly appointed and qualified _____, do hereby CERTIFY that the foregoing resolution was adopted at a meeting duly called and held in the office of _____, a quorum being present on the _____ day of _____, and that said copy is a true, correct and compared copy of the original resolution so adopted and that the same has not been revoked or rescinded.

WITNESSETH, my hand and seal this _____ day of _____.

Name, title

Instructions: fill in the red prompts with information from the cover letter.

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



Department of Transportation

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
 U.S. 62 & NY 950K
 FROM KENMORE AVENUE TO ADMIRALS WALK
 TOWNS OF AMHERST & TONAWANDA

F.A. PROJECT

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT 'PROPOSAL' EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT 'PROPOSAL.'

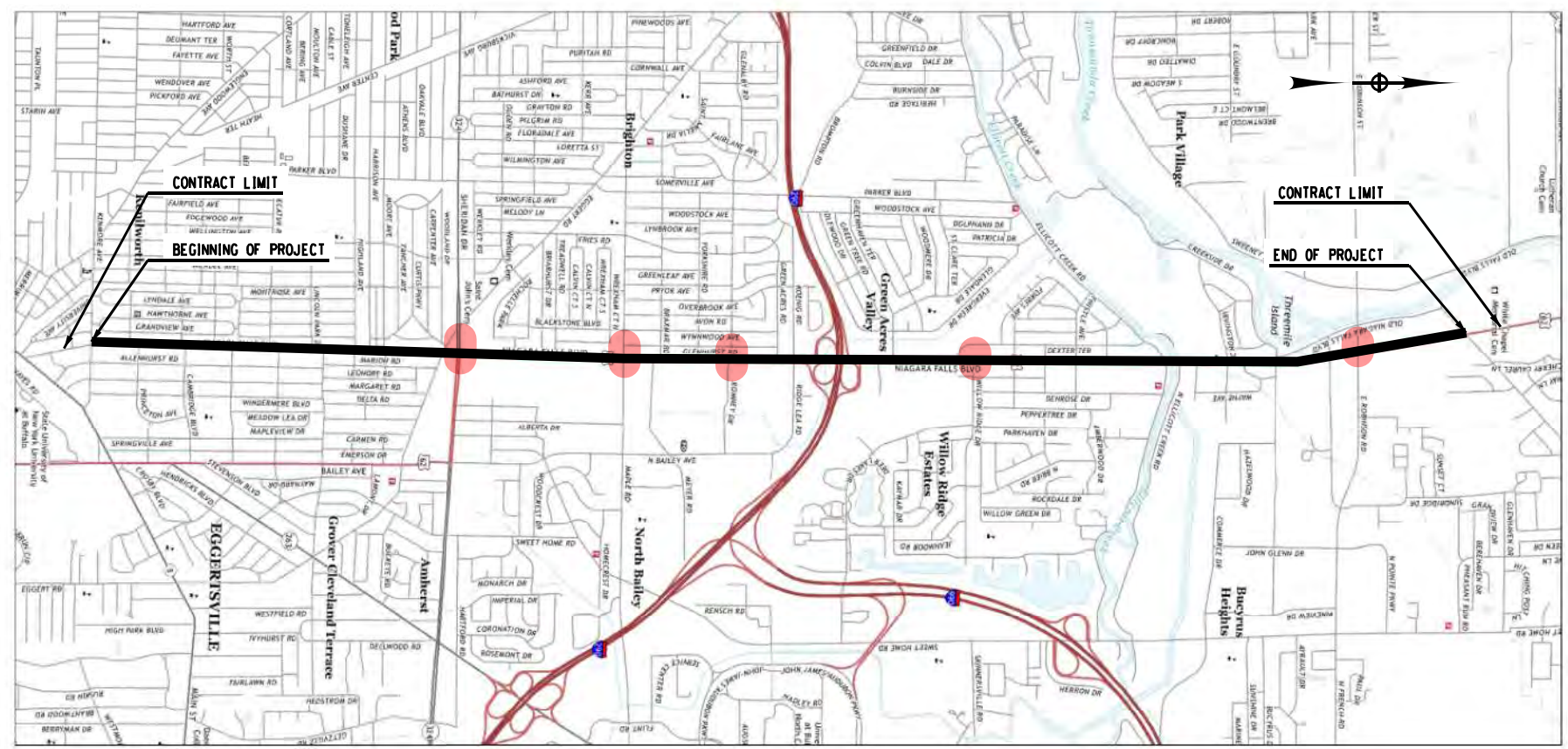
CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 4/24/2019 UNDER PINS 50.PS.01, 50.PS.02, 50.PS.03.

Signal and Roadway Reduction Plan Set Only, Good as of 2020 March 06

CONTRACT D264244

ERIE COUNTY

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
ENGINEER IN CHARGE _____
FINAL COST TOTAL _____
FISCAL SHARE _____ COST(S) _____



PROJECT LOCATION
 NIAGARA FALLS BOULEVARD
 KENMORE AVENUE TO ADMIRALS WALK
 TOWNS OF AMHERST & TONAWANDA

VHB _____ DATE _____



CME _____ DATE _____



C&S _____ DATE _____



APPROVED ON 4/24/2019 UNDER PINS 50.PS.01, 50.PS.02, 50.PS.03

NIAGARA FALLS BLVD. PEDESTRIAN SAFETY DESIGN		
U.S. 62 & NY 950K		
FROM KENMORE AVENUE TO ADMIRALS WALK		
TOWNS OF AMHERST & TONAWANDA		
COUNTY: ERIE		
FED. ROAD REG. NO.	STATE	SHEET NO.
1	N.Y.	1
CAPITAL PROJECT IDENTIFICATION NO.		5308.38
INDEX ON SHEET NO. 2		

APPROVED BY _____	RECOMMENDED BY _____	RECOMMENDED BY _____	RECOMMENDED BY _____	APPROVED BY _____
ACTING REGIONAL DESIGN ENGINEER	REGIONAL CONSTRUCTION ENGINEER	REGIONAL DIRECTOR OF OPERATIONS	REGIONAL TRAFFIC ENGINEER	REGIONAL DIRECTOR
DATE _____	DATE _____	DATE _____	DATE _____	DATE _____

FILE NAME = DGN\$SYF ILENAME012345
 DATE/TIME = 3/5/2020
 USER = AC g/lehm

ALIGNMENT		TOPOGRAPHY (MISCELLANEOUS)		UTILITIES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AH	AHEAD	ABUT	ABUTMENT	E	ELECTRIC
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER	EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHALT	G	GAS
B	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
C	CENTERLINE	BM	BENCH MARK	GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CC	CENTER TO CENTER	HYD	HYDRANT
e	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE	LP	LIGHT POLE
EQ	EQUALITY	CONST	CONSTRUCTION	LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CR	COUNTY ROAD	PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTANCE	SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEASUREMENT	SMH	SANITARY MANHOLE
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY	ST	STORM SEWER
LS	LENGTH OF SPIRAL	EP	EDGE OF PAVEMENT	T	TELEPHONE
LVC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHOULDER	TCB	TRAFFIC CONTROL BOX
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISITION	TELBOX	TELEPHONE BOX
M	MAIN LINE	FEE WO/A	FEE ACQUISITION WITHOUT ACCESS	TEL P	TELEPHONE POLE
PC	POINT OF CURVATURE	FP	FENCE POST	TMH	TELEPHONE MANHOLE
PI	POINT OF INTERSECTION	FD	FOUNDATION	CTV	CABLE TELEVISION
POL	POINT ON LINE	FL	FENCE LINE	W	WATER
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE	WSB	WATER SERVICE BOX (HOUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL	WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	HO	HOUSE	SUBSURFACE EXPLORATION	
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY		
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE	ABBR.	DESCRIPTION
R	RADIUS	MB	MAILBOX	REPLACE ABBREVIATION "AB" WITH:	
SC	SPIRAL TO CURVE	MON	MONUMENT	AH	HAND AUGER
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WASHER	CP	CONE PENETROMETER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND	DA	2 1/4 INCHES CASED DRILL HOLE
STA	STATION	O/H	OVERHEAD	DM	DRILLING MUD
T	TANGENT LENGTH	P	PARCEL	DN	4 INCHES CASED DRILL HOLE
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT	FH	HOLLOW FLIGHT AUGER
TS	TANGENT TO SPIRAL	PE	PERMANENT EASEMENT	PA	POWER AUGER
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN POLE	PH	PROBE
TOPOGRAPHY (DRAINAGE)		P	PROPERTY LINE	PT	PERCOLATION TEST HOLE
ABBR.	DESCRIPTION	POR	PORCH	RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RR	RAILROAD	TO BE DEFINED AT THE TIME OF EXPLORATION	
BC	BOTTOM OF CURB	RTE	ROUTE	SP	SEISMIC POINT
BO	BOTTOM OF OPENING	ROW	RIGHT OF WAY	TP	TEST PIT
CAP	CORRUGATED ALUMINUM PIPE	RW	RETAINING WALL	ABBREVIATION "C" IN CATEGORIES: DA, DM, DN, AND FH WITH:	
CB	CATCH BASIN	SH	STATE HIGHWAY	B	BRIDGE
CIP	CAST IRON PIPE	SHLDR	SHOULDER	C	CUT
C STRM	CENTERLINE OF STREAM	SPK	SPIKE	D	DAM
CMP	CORRUGATED METAL PIPE	ST	STREET	F	FILL
CP	CONCRETE PIPE	STK	STAKE	K	CULVERT
CSP	CORRUGATED STEEL PIPE	STY	STORY	W	WALL
CULV	CULVERT	SW	SIDEWALK	X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE
DIA	DIAMETER	TE	TEMPORARY EASEMENT		
DMH	DRAINAGE MANHOLE	TO	TEMPORARY OCCUPANCY		
DS	DRAINAGE STRUCTURE PIPE	U/G	UNDERGROUND		
D'XING	DITCH CROSSING	WW	WING WALL		
EHW	EXTREME HIGH WATER				
EL	ELEVATION				
ELEV	ELEVATION				
ELW	EXTREME LOW WATER				
ES	END SECTION				
HW	HEADWALL				
INV	INVERT				
MH	MANHOLE				
MHW	MINOR HIGH WATER				
OHW	ORDINARY HIGH WATER				
OLW	ORDINARY LOW WATER				
RCP	REINFORCED CONCRETE PIPE				
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE				
TB	TOP OF BANK (STREAM)				
TC	TOP OF CURB				
TG	TOP OF GRATE				
VCP	VITRIFIED CLAY PIPE				

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
'	LF	LINEAR FEET
mi	MI	MILES
ft ²	SF	SQUARE FEET
YD ²	SY	SQUARE YARD
AC	AC	ACRES
YD ³	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

STANDARD SHEETS

203-01	619-01	619-30	619-62	655-06	680-12
203-04	619-02	619-31	619-63	655-07	680-13
203-05	619-04	619-32	619-64	655-08	680-14
209-01	619-10	619-33	619-65	664-01	680-15
209-03	619-11	619-34	619-66	680-01	680-17
402-01	619-12	619-40	645-01	680-02	685-01
604-02	619-20	619-41	645-03	680-03	
608-01	619-21	619-50	655-01	680-04	
608-03	619-22	619-51	655-03	680-05	
609-02	619-23	619-60	655-04	680-06	
609-03	619-24	619-61	655-05	680-10	

INDEX		TOTAL NUMBER OF SHEETS 124
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	TITLE SHEET	COVER
2	INDEX AND ABBREVIATIONS	IND-01
3-4	LEGEND, LINE AND POINT SYMBOLOGY	LEG-01 TO LEG-02
5	WORK ZONE TRAFFIC CONTROL NOTES	WZN-01
6-7	WORK ZONE TRAFFIC CONTROL PLANS	WZP-01 TO WZP-02
8-9	MAINTENANCE JURISDICTION PLAN	MJP-01 TO MJP-02
10-16	MISCELLANEOUS TABLES	MST-01 TO MST-07
17-19	MISCELLANEOUS DETAILS	MSD-01 TO MSD-03
20	DRAINAGE DETAILS	DD-01
21	KEY PLAN	KP-01
22	GENERAL NOTES	GN-01
23-24	EARTHWORK SUMMARY SHEETS	ESS-1 TO ESS-2
25-76	GENERAL PLANS	GNP-01 TO GNP-51
77-78	SIGN TEXT DATA SHEET	STD-01 TO STD-02
79-114	TRAFFIC SIGNAL DETAILS	TSD-01 TO TSD-36
115-120	OVERHEAD SIGN STRUCTURES	OSS-1 TO OSS-6
121-122	ESTIMATE OF QUANTITIES	EIQ-01 TO EIQ-02
123-124	ESTIMATE OF QUANTITIES	EQ-01 TO EQ-02

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & NY 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED INDEX	CONTRACT NUMBER D264244 DRAWING NO. IND-01 SHEET NO. 02
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ALIGNMENT			LANDSCAPE			ROADWAY			TRAFFIC WORK ZONE		
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)		LABL	AREA, BRUSH LINE		RCZ_P	CLEAR ZONE		TWZBT_P	BARRIER, TEMPORARY
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW		RG	GUIDE RAIL, MISCELLANEOUS		TWZCD_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	AT_P	TRANSITION CONTROL		LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM		TWZPMRC_P	CHANNELIZING DEVICE
BRIDGE				LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN	UTILITIES		
	BR	RAIL		LAWL	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	STYLE	NAME	DESCRIPTION
	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGCN	GUIDE RAIL, CONCRETE BARRIER		UC	CONDUIT, UNDERGROUND
CONTROL				LFILL_P	FILL LIMIT		RGP_P	GUIDE POST		UCH	CONDUIT, HANGING
	CB	BASELINE		LFNC	FENCE		RGW	GUIDE RAIL, W BEAM		UCO	CONDUIT, OVERHEAD
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN		UE	ELECTRIC LINE, UNDERGROUND
DRAINAGE				LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER		UEH	ELECTRIC LINE, HANGING
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRC	RAIL ROAD, CATENARY		UEO	ELECTRIC LINE, OVERHEAD
	DCP_P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL		UETO	ELECTRIC TRANSMISSION, OVERHEAD
	DDG_P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPLS_P	RAIL, PHOTO, LARGE SCALE		UESS	ELECTRIC, SUBSTATIONS
	DDP_P	DITCH, PAVED INVERT	ROW MAPPING				RRPSS	RAIL, PHOTO, SMALL SCALE		UFO	FIBER OPTIC, UNDERGROUND
	DDS_P	DITCH, STONE LINED		MDL	DEED LINE		RRSS	RUMBLE STRIP		UFOH	FIBER OPTIC, HANGING
	DFL_P	FLOW LINE		MEE	EASEMENT, EXISTING		RRSLS_P	RAIL, SURVEY, LARGE SCALE		UFOO	FIBER OPTIC, OVERHEAD
	DSSD	SLOTTED DRAIN		MEP_P	EASEMENT, PERMANENT		RRSSS	RAIL, SURVEY, SMALL SCALE		UG	GAS, UNDERGROUND
	DUD_P	UNDERDRAIN		MEPA_P	EASEMENT, PERMANENT, APPROX.	SIGNS				UGH	GAS, HANGING
ENVIRONMENTAL				MET_P	EASEMENT, TEMPORARY		SBLB	BILLBOARDS		UGO	GAS, OVERHEAD
	EBLHS	BALE, STRAW		META_P	EASEMENT, TEMPORARY, APPROX.		SM	MULTIPLE POST		UIC	INFORM CABLE, UNDERGROUND
	ECT	CURTAIN, TURBIDITY		MF_P	FEE ACQUISITION, W/ ACCESS		SSO	STRUCTURE, OVERHEAD		UICH	INFORM CABLE, HANGING
	EDMC	DAM, COFFER		MFA_P	FEE ACQUISITION, APPROXIMATE		SSOC	STRUCTURE, OVHD. CANTILEVER		UO	OIL LINE, UNDERGROUND
	EDMEC_P	DAM, EARTHEN CHECK		MFS_P	FEE ACQUISITION, SHAPE	STRIPING				UOH	OIL LINE, HANGING
	EDMGC_P	DAM, GRAVEL BAG/SAND BAG CHECK		MFWOA_P	FEE ACQUISITION, W/O ACCESS		STB*	BROKEN LINE		UPBP	POLE, BRACE, PUSH BRACE
	EDMPC_P	DAM, PREFABRICATED CHECK		MHA	HISTORICAL, ACQUISITION		STDB*	DOUBLE BROKEN LINE		UPGW	POLE, GUY WIRE
	EDMSC_P	DAM, STONE CHECK		MHB	HIGHWAY BOUNDARY		STDL*	DOTTED LINE LONG		USA	SANITARY SEWER, UNDERGROUND
	EFNS	FENCE, SILT		MHBA	HIGHWAY BOUNDARY, APPROX.		STDS*	DOTTED LINE SHORT		USAH	SANITARY SEWER, HANGING
	EFNSV	FENCE, SILT & VEGETATION		MHBW	HWY BOUNDARY, FACE OF WALL		STFB*	FULL BARRIER LINE		USAF	SANITARY SEWER, FORCE MAIN, UGND
	EFNV	FENCE, VEGETATION		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STH*	HATCH LINE		USAFH	SANITARY SEWER, FORCE MAIN, HANG
	EWAA_P	WETLAND, ADJACENT AREA		MJC	JURISDICTION, CITY		STPB*	PARTIAL BARRIER LINE		UT	TELEPHONE, UNDERGROUND
	EWF	WETLAND, FEDERAL		MJCY	JURISDICTION, COUNTY		STRCT	ROUNDABOUT, CAT TRACKS		UTH	TELEPHONE, HANGING
	EWFs	WETLAND, FEDERAL AND STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		STRYL	ROUNDABOUT, YIELD LINE		UTO	TELEPHONE, OVERHEAD
	EWM	WETLAND, MITIGATION AREA		MJLL	JURIS., (GREAT, MILITARY) LOT LINE		STSB	STOP BAR		UTV	CABLE TV, UNDERGROUND
	EWS	WETLAND, STATE		MJN	JURISDICTION, NATION		STSE*	SOLID, EDGE		UTVH	CABLE TV, HANGING
				MJPB	JURISDICTION, PUBLIC LANDS		STXL	X WALK, LADDER LINE		UTVO	CABLE TV, OVERHEAD
				MJS	JURISDICTION, STATE		STXLB	X WALK, LADDER BAR LINE		UJ	UNKNOWN, UNDERGROUND
				MJT	JURISDICTION, TOWN	* = W (WHITE) OR Y (YELLOW)				UJH	UNKNOWN, HANGING
				MJV	JURISDICTION, VILLAGE	TRAFFIC CONTROL				UJO	UNKNOWN, OVERHEAD
				MPL	PROPERTY LOT LINE		TCSW	SIGNAL, SPAN WIRE		UW	WATER LINE, UNDERGROUND
				MPLA	PROPERTY LOT LINE, APPROXIMATE					UWH	WATER LINE, HANGING
				MSL	SUB LOT LINE					UWO	WATER LINE, OVERHEAD

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & NY 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5		PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED LEGEND LINE & POINT SYMBOLOGY	CONTRACT NUMBER D264244 DRAWING NO. LEG-01 SHEET NO. 03

SIGNAL #283
NIAGARA FALLS BOULEVARD
AT WILLOW RIDGE DRIVE

PROJECT MANAGER W. HOLSBERGER

CHECK A. GUGLIEMMI

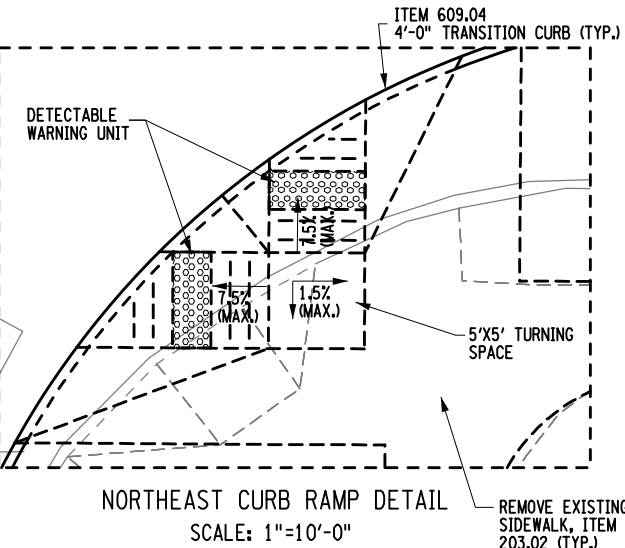
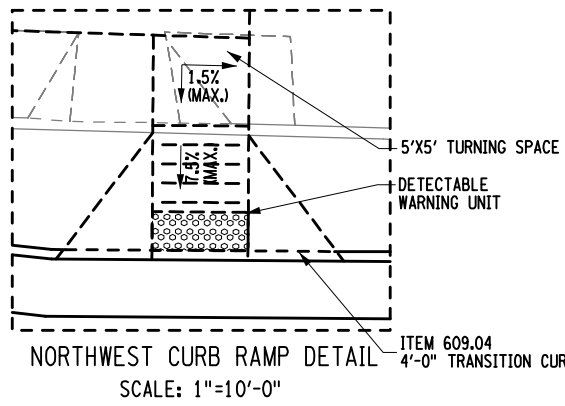
DRAFTING J. DONNAN

CHECK M. KENNEDY

DESIGN R. WINTER

JOB MANAGER R. WINTER

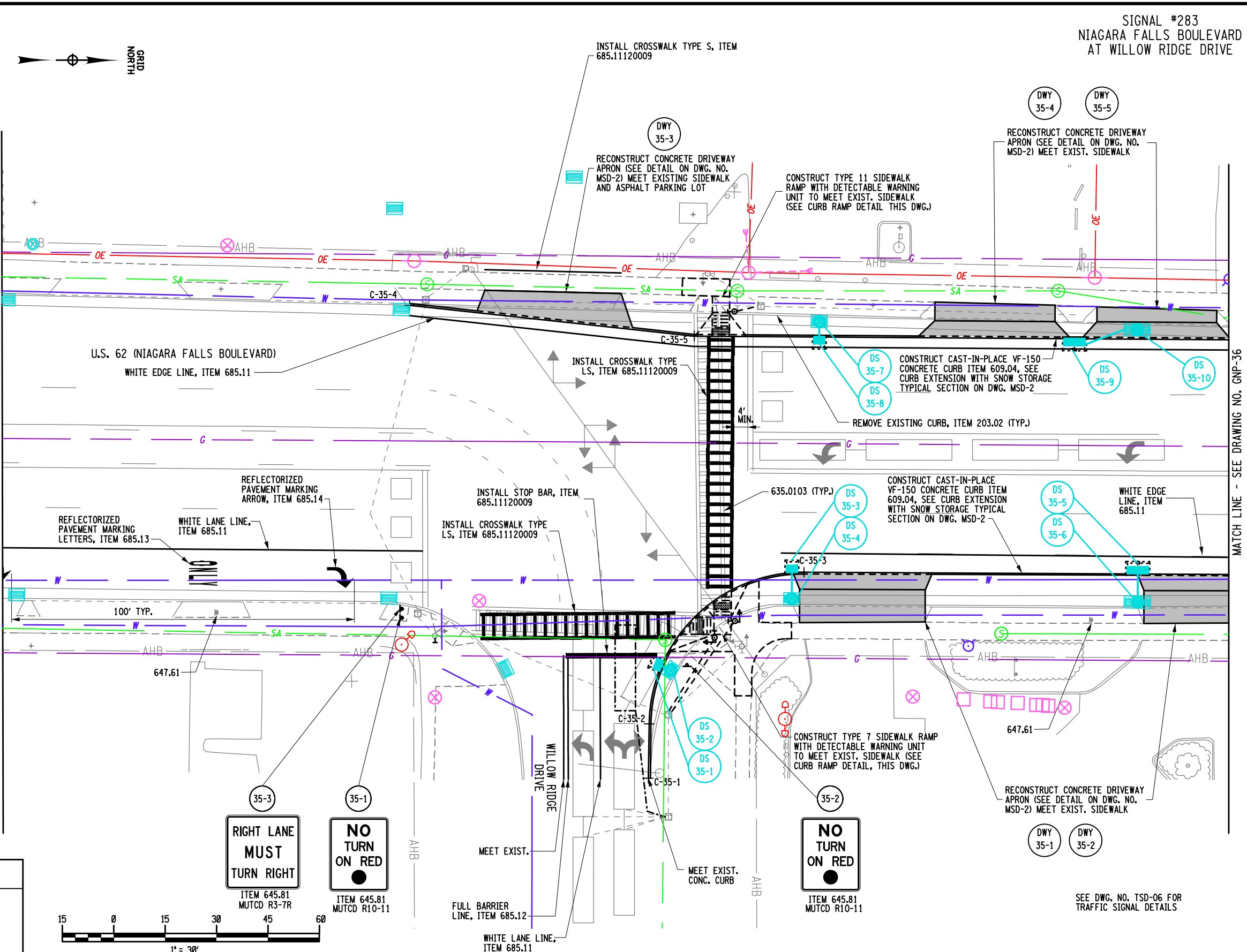
DESIGN SUPERVISOR W. HOLSBERGER



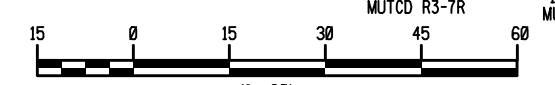
- NOTES:
1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND GRADES TO ENSURE COMPLIANCE WITH ADA REQUIREMENTS AND NYS DOT STANDARD SHEET 608-01 (SHEETS 1-9).
 2. IF LAYOUTS REQUIRE ADJUSTMENT DUE TO FIELD CONDITIONS, NOTIFY ENGINEER IMMEDIATELY.
 3. SIDEWALK REMOVALS SHALL END AT AN EXISTING JOINT.
 4. REFER TO NYS DOT STANDARD SHEET 608-01 (SHEET 1-9) FOR ADDITIONAL NOTES AND DETAILS.



MATCH LINE - SEE DRAWING NO. GNP-34



MATCH LINE - SEE DRAWING NO. GNP-36



AFFIX SEAL: RYAN M. WINTER, P.E.
ON:

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
U.S. 62 & NY 950K
FROM KENMORE AVENUE TO ADMIRALS WALK
TOWNS OF AMHERST & TONAWANDA
COUNTY: ERIE REGION: 5

PIN 5308.38 US ROUTE 62 & NY 950K
BRIDGES
CULVERTS
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
GENERAL PLAN
LOCATION NO. 41 U.S. 62 (NIAGARA FALLS BLVD.) AND WILLOW RIDGE DRIVE

CONTRACT NUMBER D264244
DRAWING NO. GNP-35 SHEET NO. 60

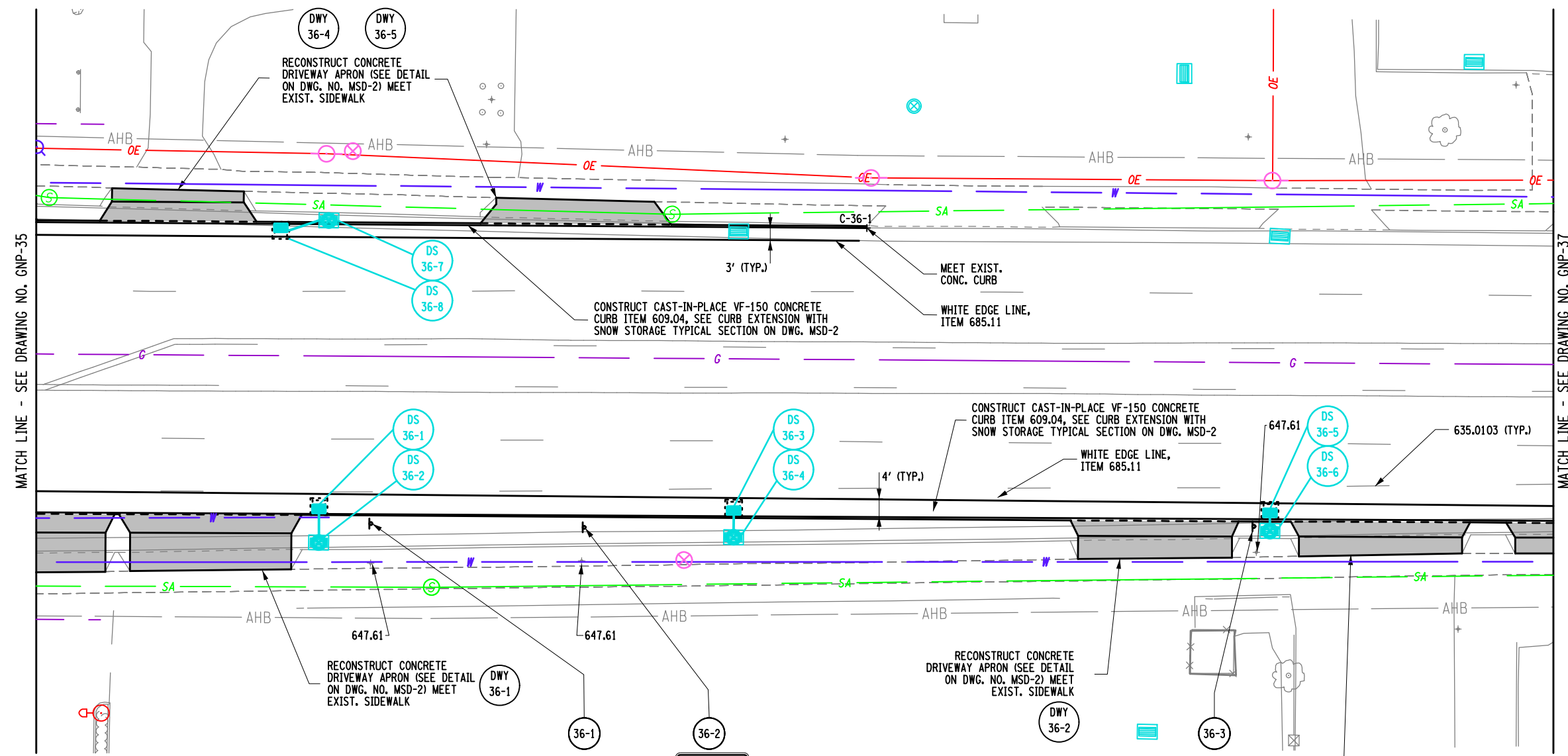
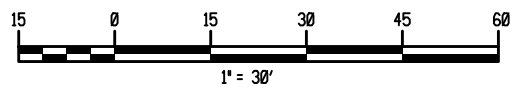
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

FILE NAME = SSSI121.cp - gnp-41a.dgn
 DATE/TIME = 3/5/2020
 USER = Aguglielmi

DESIGN SUPERVISOR W. HOLSBERGER
 JOB MANAGER R. WINTER
 DESIGN R. WINTER
 CHECK M. KENNEDY
 DRAFTING J. DONNAN
 CHECK A. GUGLIELMI
 PROJECT MANAGER W. HOLSBERGER



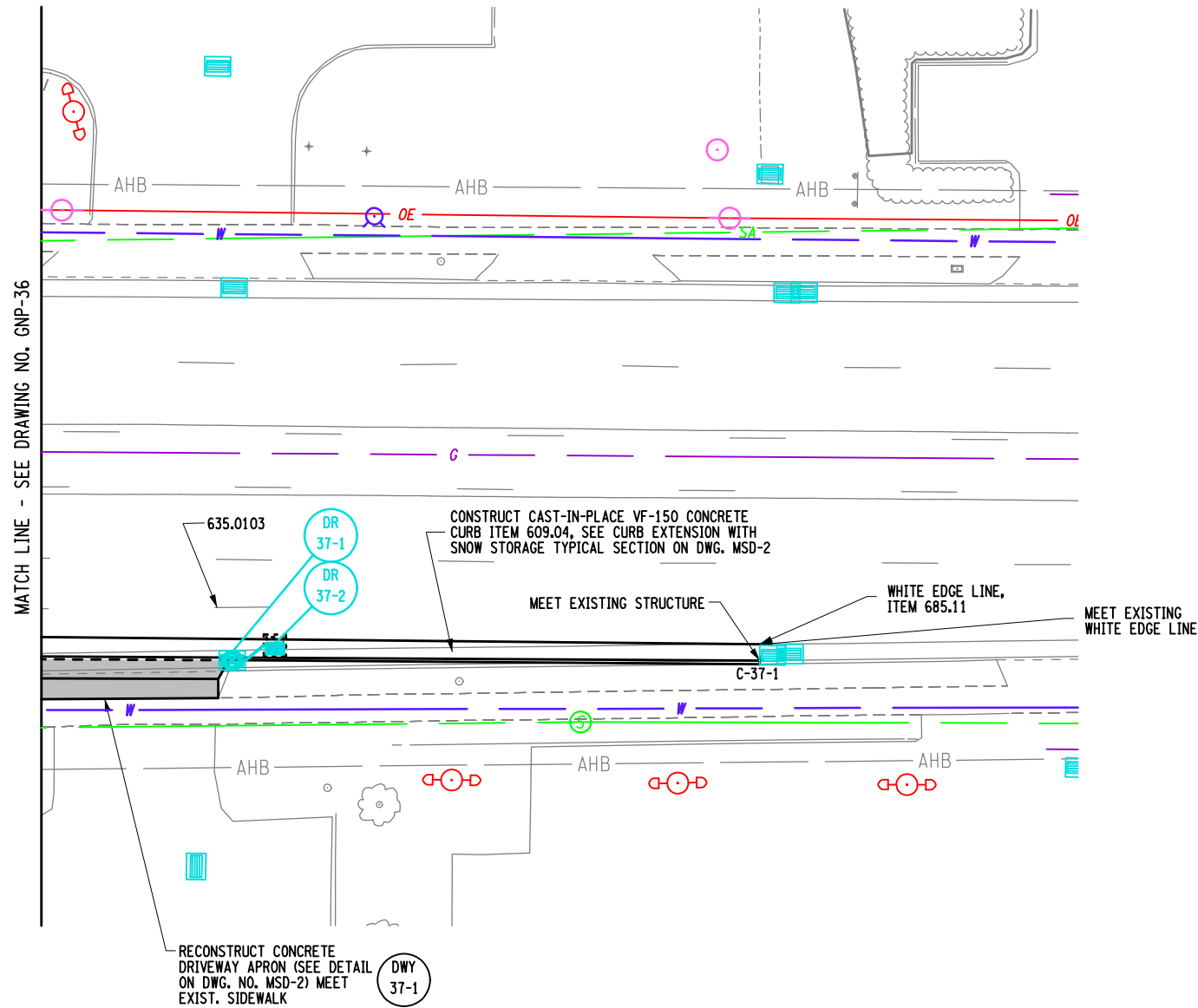
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 2. IF LAYOUTS REQUIRE ADJUSTMENT DUE TO FIELD CONDITIONS, NOTIFY ENGINEER IMMEDIATELY.
 3. SIDEWALK REMOVALS SHALL END AT AN EXISTING JOINT.
 4. REFER TO NYS DOT STANDARD SHEET 608-01 (SHEET 1-9) FOR ADDITIONAL NOTES AND DETAILS.



NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & NY 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED GENERAL PLAN LOCATION NO. 41 U.S. 62 (NIAGARA FALLS BLVD.) AND WILLOW RIDGE DRIVE	CONTRACT NUMBER D264244 DRAWING NO. GNP-36 SHEET NO. 61
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





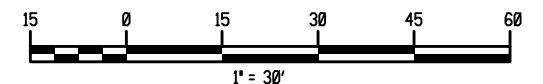
- NOTES:**
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 2. IF LAYOUTS REQUIRE ADJUSTMENT DUE TO FIELD CONDITIONS, NOTIFY ENGINEER IMMEDIATELY.
 3. SIDEWALK REMOVALS SHALL END AT AN EXISTING JOINT.
 4. REFER TO NYSDOT STANDARD SHEET 608-01 (SHEET 1-9) FOR ADDITIONAL NOTES AND DETAILS.

AFFIX SEAL: RYAN M. WINTER, P.E. ON:	ALTERED BY: ON:
<p>AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:</p>	

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
U.S. 62 & NY 950K
FROM KENMORE AVENUE TO ADMIRALS WALK
TOWNS OF AMHERST & TONAWANDA
COUNTY: ERIE REGION: 5

PIN 5308.38	BRIDGES
US ROUTE 62 & NY 950K	CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
GENERAL PLAN	D264244
LOCATION NO. 41 U.S. 62 (NIAGARA FALLS BLVD.) AND WILLOW RIDGE DRIVE	DRAWING NO. GNP-37 SHEET NO. 62



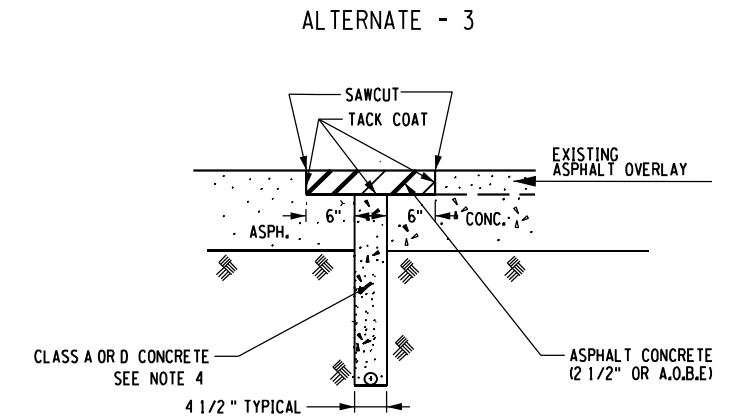
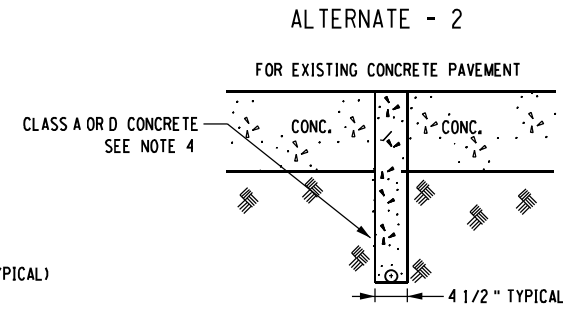
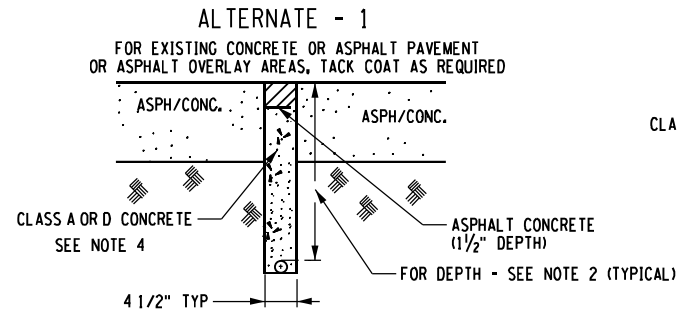
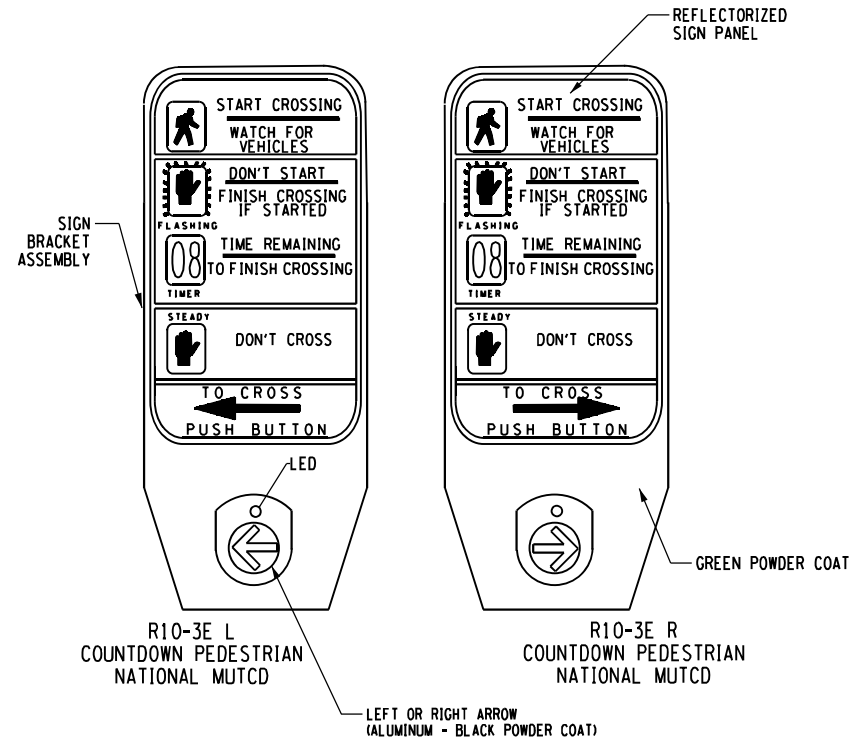
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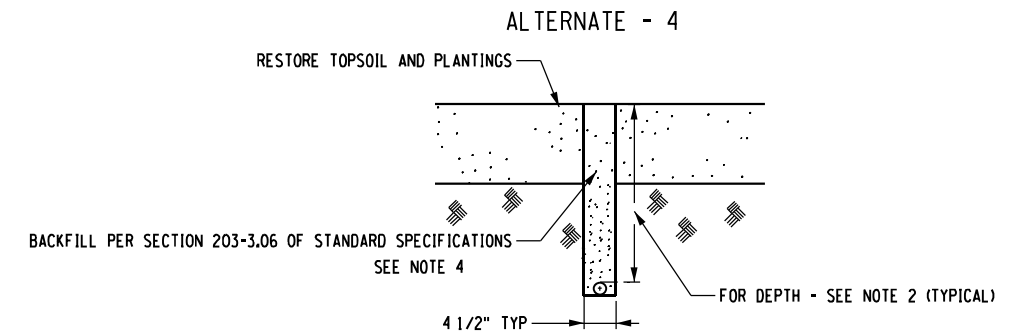
FILE NAME = SESS17121_cp_gnp-41B.dgn
DATE/TIME = 3/5/2020
USER = Aguglielmi

DESIGN SUPERVISOR W. HOLSBERGER
JOB MANAGER R. WINTER
DESIGN R. WINTER
CHECK M. KENNEDY
DRAFTING J. DONNAN
CHECK A. GUGLIELMI
PROJECT MANAGER W. HOLSBERGER

AUDIBLE PEDESTRIAN SIGNAL AND COUNTDOWN TIMER SIGN AND PUSHBUTTON DETAIL
N.T.S.
ITEM 680.81330010



ITEM 206.03060005 - CONDUIT EXCAVATION & BACKFILL
(ALTERNATE METHOD FOR GRASSY AREAS)



THESE DETAILS OUTLINES ACCEPTABLE, ALTERNATIVE METHODS FOR THE INSTALLATION OF CONDUIT IN PAVED AREAS, WHICH MAY BE USED IN PLACE OF THE CONDUIT EXCAVATION, BACKFILL & REPLACEMENT DETAIL SHOWN ON STANDARD SHEET - PULLBOX, CONDUIT AND GROUND ROD INSTALLATION DETAILS

NOTES:

1. THE EXCAVATION SHALL BE DONE WITH A VERMEER T-600 MACHINE OR ONE OF EQUAL CAPABILITIES.
2. DEPTH OF CONDUIT SHALL BE THE SAME AS FOR NORMAL INSTALLATION METHODS SHOWN ON STANDARD SHEET 680-04.
3. CONDUIT SHALL BE PLACED IN TRENCH AND PINNED IN PLACE TO PREVENT FLOATATION. DEPTH OF CONDUITS SHALL BE CHECKED BY THE ENGINEER. FLOATATION OF CONDUIT WILL BE GROUNDS FOR REMOVAL & REPLACEMENT AT NO ADDITIONAL COST.
4. ALL ALTERNATES, UNFILLED TRENCHES SHALL BE COVERED WITH STEEL PLATING BEFORE OPENED TO TRAFFIC.
5. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 501 - N.Y.S. STANDARD SPECIFICATIONS.
6. TACK COAT SHALL MEET THE REQUIREMENTS OF SECTION 702, TABLE 702-7 N.Y.S. STANDARD SPECIFICATIONS.
7. ASPHALT CONCRETE COURSE SHALL MEET THE REQUIREMENTS OF THE MATERIAL SPECIFICATION OF SECTION 402 ASPHALT CONCRETE. (MATCH EXISTING)
8. THE SAWCUTTING OF TRENCHES THROUGH ASPHALT OR CONCRETE AREAS WILL BE REQUIRED. THE COST OF SAWCUTTING IS TO BE INCLUDED IN THE VARIOUS 206 ITEMS.
9. ASPHALT SHALL BE COMPACTED USING A VIBRATORY ROLLER APPROVED BY THE ENGINEER.

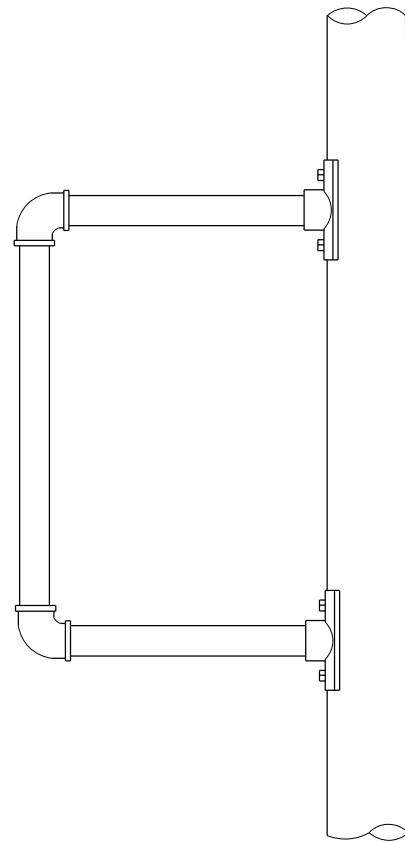
AFFIX SEAL: RYAN M. WINTER, P.E. ON:	ALTERED BY: ON:
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38 US ROUTE 62	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244	
	U.S. 62 & NY 950K					TRAFFIC SIGNAL DETAILS	
	FROM KENMORE AVENUE TO ADMIRALS WALK						DRAWING NO. TSD-01 SHEET NO. 79
	TOWNS OF AMHERST & TONAWANDA						
COUNTY: ERIE	REGION: 5						

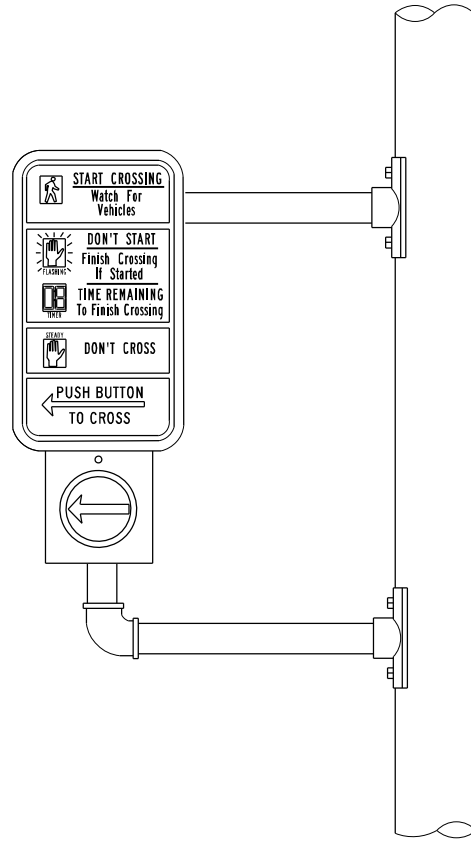
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NOTES:

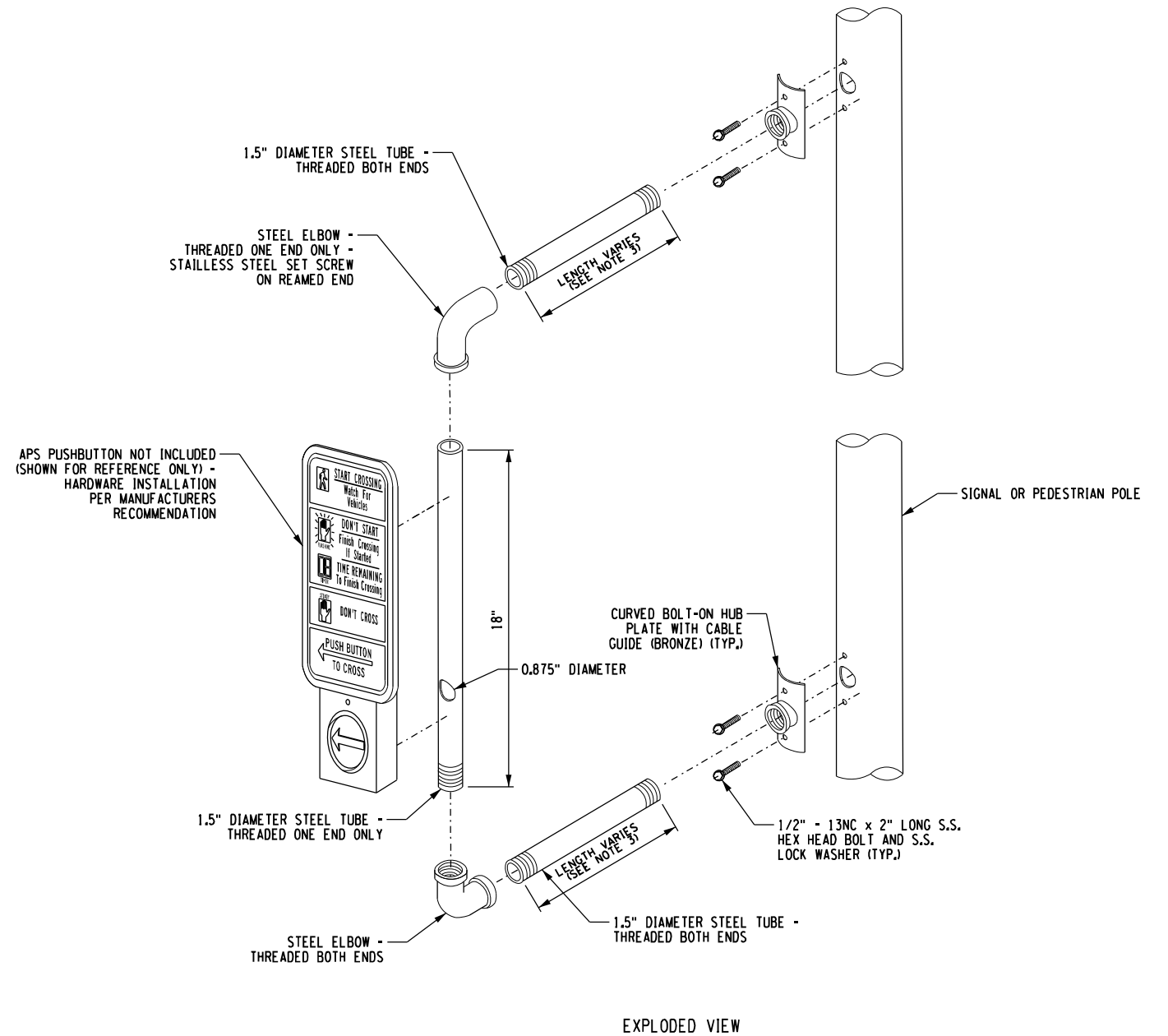
1. SEE STANDARD SPECIFICATION SECTION 680 FOR ADDITIONAL MATERIAL REQUIREMENTS, INCLUDING PAINTING OF ALL PIPES, ELBOWS AND HUB PLATES.
2. EXTENDER CAN BE BOLTED AND/OR BANDED TO THE POLE.
3. EXTENSION LENGTH SHALL BE AS-NEEDED. PROPOSED LENGTH SHALL BE APPROVED BY THE ENGINEER. OPTIMAL PLACEMENT OF PEDESTRIAN PUSHBUTTON IS SIX INCHES FROM THE EDGE OF SIDEWALK. BUTTON MAY BE PLACED UP TO TEN INCHES FROM THE EDGE OF SIDEWALK.
4. PAYMENT TO BE INCLUDED UNDER ITEM# 680.8141
5. REFER TO PEDESTRIAN ORIENTATION DIAGRAMS ON GNP OR TSP DRAWINGS FOR ADDITIONAL INFORMATION.



ELEVATION VIEW



ELEVATION VIEW WITH APS INSTALLED



EXPLODED VIEW

ACCESSIBLE PEDESTRIAN SIGNAL (APS) PEDESTRIAN PUSH BUTTON EXTENSION DETAIL (NOT TO SCALE)

AFFIX SEAL: RYAN M. WINTER, P.E. ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244
U.S. 62 & NY 950K	US ROUTE 62				
FROM KENMORE AVENUE TO ADMIRALS WALK				TRAFFIC SIGNAL DETAILS	DRAWING NO. TSD-02 SHEET NO. 80
TOWNS OF AMHERST & TONAWANDA					
COUNTY: ERIE	REGION: 5				

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TRAFFIC SIGNAL GENERAL NOTES

1. EXCAVATION

A. EXCEPT IN ROADWAY SECTIONS, THE CONTRACTOR SHALL EXCAVATE ALL EXISTING TRAFFIC SIGNAL PULLBOXES, POLES, AND FOUNDATIONS TO A DEPTH OF 6" BELOW EXISTING GRADE AND BACKFILL WITH MATERIAL IN KIND. THE CHARACTER AND CONDITION SHALL MATCH THAT SURROUNDING THE STRUCTURE OR ABOVE. WITHIN THE ROADWAY, THESE EXCAVATIONS WILL BE MADE TO A DEPTH OF 1 FOOT BELOW THE TOP OF SUBGRADE AND BACKFILLED WITH SUITABLE MATERIAL. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.790XXX05 "REMOVE TRAFFIC SIGNAL INSTALLATION."

2. SIGNAL POLES

A. AT INTERSECTIONS WHERE SIGNAL POLES OR PEDESTRIAN POLES ARE BEING PLACED IN SIDEWALKS, THE TOP OF THE FOUNDATION SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK.

3. TRAFFIC SIGNALS

A. ALL POLYCARBONATE SIGNAL HEADS WITH THREE OR MORE SECTIONS REQUIRE A REINFORCEMENT PLATE UNLESS CONNECTED TO A FIXED OBJECT (POLE OR MAST ARM) BY A BRACKET WITH TWO SEPARATE CONNECTION POINTS (TOP AND BOTTOM).

B. THE CONTRACTOR SHALL INSTALL A HEAVY DUTY STAINLESS STEEL WASHER ON THE SIGNAL HEAD BALANCE ADJUSTER.

C. ITEMS 680.810601 "SIGNAL SECTION - POLYCARBONATE TYPE 1", 680.813106 "PEDESTRIAN SIGNAL SECTION", 680.8141 "PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY", 680.8142 "PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY", AND 680.81330010 "AUDIBLE PEDESTRIAN SIGNAL", SHALL BE GREEN IN COLOR.

C. ITEM 680.81990003 - TRAFFIC SIGNAL BACK PLATES WITH YELLOW REFLECTIVE TAPE SHALL BE MODIFIED TO ONLY ALLOW 5 INCH NON LOUVERED, FLAT BACK FINISHED BACK PLATES WITH A 3 INCH WIDE YELLOW REFLECTIVE TAPE BORDER AROUND THE OUTER EDGE.

4. PEDESTRIAN SIGNALS

A. ALL PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED PARALLEL WITH THE APPROPRIATE CROSSWALK. ALSO, ALL INDICATIONS SHALL BE INSTALLED AWAY FROM TURNING VEHICULAR TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLAN SHEET.

B. ALL PEDESTRIAN SIGNS SHALL BE 9 INCHES X 15 INCHES (R10-31) REGARDLESS OF THE SIZE OF POLE THEY ARE INSTALLED ON. THE COST OF FURNISHING AND INSTALLING THESE SIGNS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 680.81330010 - AUDIBLE PEDESTRIAN SIGNAL.

5. AUDIBLE WIRING

A. THE MANUFACTURER'S SUGGESTED CABLES (OR EQUIVALENTS) SHALL BE USED WITH AUDIBLE PEDESTRIAN SIGNAL (APS) UNITS. THE QUANTITY OF CABLE REQUIRED AT EACH LOCATION SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APS MANUFACTURER'S INSTALLATION DETAILS AND PROCEDURES.

B. REFER TO THE MANUFACTURER'S INSTALLATION AND PROCEDURE MANUALS FOR DETAILS.

C. THE COST TO FURNISH AND INSTALL ALL WIRING BETWEEN THE AUDIBLE PEDESTRIAN SIGNAL (APS) UNITS FOR ITEM 680.81330010 AND THEIR RESPECTIVE CONTROL UNITS MOUNTED IN THE PEDESTRIAN HEADS SHALL BE INCLUDED UNDER PROVISIONS OF ITEM 680.81330010.

D. WHERE AUDIBLE PEDESTRIAN SIGNAL (APS) UNITS ARE MOUNTED SEPARATELY FROM THEIR RESPECTIVE CONTROL UNITS, THE COST TO FURNISH AND INSTALL THE 4 CONDUCTOR COMMUNICATION WIRE BETWEEN THE APS UNIT AND THEIR RESPECTIVE CONTROL UNITS MOUNTED IN THE PEDESTRIAN HEADS SHALL BE INCLUDED UNDER PROVISIONS OF ITEM 680.81330010.

E. THE COST TO FURNISH AND INSTALL THE WIRE CONNECTING THE APS ACTIVATION BUTTON FOR ITEM 680.81330010 WITH THE ASSOCIATED PEDESTRIAN INDICATION INPUT WIRE AT THE PEDESTRIAN POLE SHALL BE INCLUDED UNDER PROVISIONS OF ITEM 680.81330010.

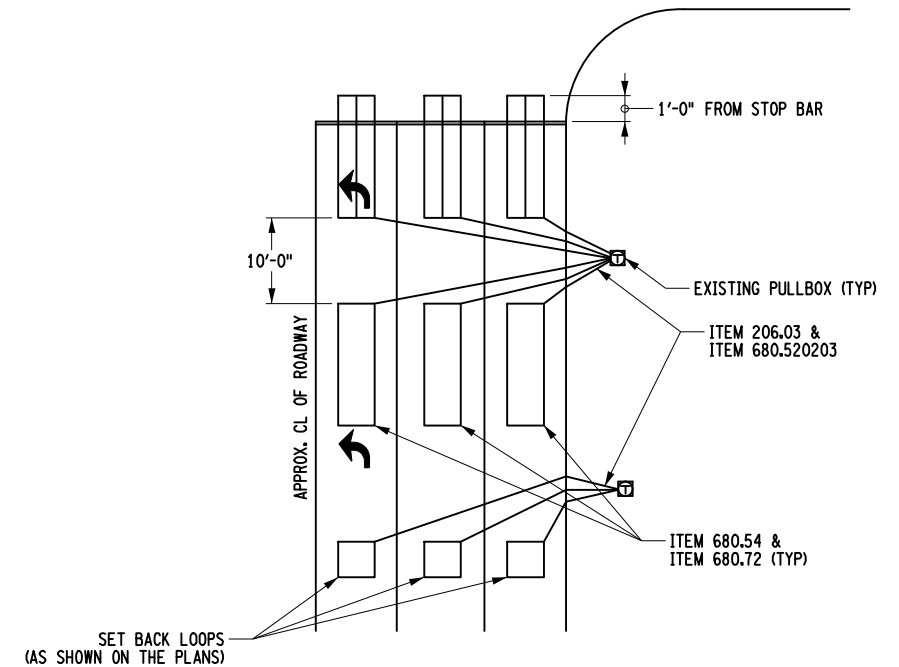
6. APS

A. CONTRACTOR SHALL ORDER APS BUTTONS FROM MANUFACTURER WITH STREET NAME MESSAGES PRE-INSTALLED. CONTRACTOR SHALL PROVIDE COPIES OF THE ASSOCIATED ELECTRONIC WAVE FILES TO NYSDOT.

INDUCTANCE LOOP INSTALLATION DETAIL

TYPICAL LAYOUT

NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL BE AWARE THAT SIGNAL LOOPS ARE DUE TO BE INSTALLED UNDER THIS CONTRACT AT VARIOUS LOCATIONS AS SHOWN ON THE TRAFFIC SIGNAL DETAILS. THEY SHALL BE INSTALLED AFTER THE MILLING OPERATION IS COMPLETED IN THOSE AREAS AND BEFORE THE TOP COURSE HAS BEEN PLACED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER-IN-CHARGE (EIC) IN WRITING SEVEN (7) DAYS PRIOR TO THE BEGINNING OF ANY MILLING OPERATIONS AT SIGNALIZED INTERSECTIONS. THE EIC SHALL THEN CONTACT THE NYSDOT SIGNAL MAINTENANCE UNIT OF THIS NOTIFICATION SO THAT ANY NECESSARY ADJUSTMENTS TO THE SIGNAL OPERATION CAN BE MADE PRIOR TO ANY MILLING IN THE LOOP AREAS. THE CONTACT FOR NYSDOT SIGNAL MAINTENANCE IS MIKE BARRETT OR NEIL FRIEDMAN AT 716-649-1426. THE CONTRACTOR SHALL NOT INSTALL ANY PORTION OF ANY DETECTION LOOP UNLESS A MEMBER OF THE NYSDOT SIGNAL MAINTENANCE UNIT IS PRESENT (AT THE SITE OF INSTALLATION) OR HAS RECEIVED PERMISSION TO INSTALL THE DETECTION LOOPS WITHOUT THEIR PRESENCE.
2. EXISTING CAST ALUMINUM JUNCTION BOXES SHALL BE REMOVED. COST OF THE WORK TO BE INCLUDED IN ITEM 680.54.
3. ANY EXISTING ELEMENT OF THE SIGNAL SYSTEM THAT IS TO REMAIN AND IS DAMAGED BY THE CONTRACTORS OPERATIONS, SHALL BE REPAIRED/REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
4. DURING LOOP REPLACEMENT IT IS THE INTENT TO UTILIZE THE EXISTING FLEXIBLE CONDUIT (ITEM 680.520203) WHENEVER POSSIBLE, FOR CONNECTING THE NEW LOOP WIRE TO THE EXISTING PULLBOX. ITEMS 206.03 & 680.520203 ARE INCLUDED IN THE CONTRACT IF IT BECOMES APPARENT THAT THE EXISTING FACILITIES CANNOT BE REUSED AND NEW ONES ARE REQUIRED.
5. IF EXCAVATION ACROSS AN EXISTING SIDEWALK IS REQUIRED, THE CONTRACTOR SHALL REPLACE THE ENTIRE AFFECTED BLOCK OF SIDEWALK AND NOT JUST THE WIDTH OF THE TRENCH. THE COST FOR SIDEWALK REPLACEMENT SHALL BE PAID UNDER ITEM 206.03.
6. THE CONTRACTOR SHALL SPLICE THE NEW INDUCTANCE LOOP WIRES, THAT REPLACED THE EXISTING LOOP WIRE, TO THE EXISTING SHIELDED LEAD-IN CABLE AT THE CURB SIDE PULLBOX. THE COST SHALL BE INCLUDED IN ITEM 680.72.
7. THE FRONT LOOP DETECTORS, KNOWN AS QUADRUPOLES, SHALL BE 6' X 20' HAVING 2-4-2 TURNS OF WIRE AS DETAILED ON STANDARD SHEET 680-14. ALL OTHER LOOP DETECTORS, WITH THE EXCEPTION OF SETBACK LOOPS, SHALL BE 6' X 20' HAVING THREE (3) TURNS OF WIRE. SET BACK LOOPS SHALL BE 6' X 6' HAVING FOUR (4) TURNS.
8. UPON COMPLETION OF MILLING OPERATIONS IN THE AREAS WITH DAMAGED LOOP DETECTORS, THE CONTRACTOR WILL BE ALLOWED THREE (3) WORKING DAYS FOR REPLACEMENT OF THE LOOP DETECTORS. THE LOOPS SHALL BE PLACED IN THE MILLED SURFACE AND SEALED WITH LOOP EMBEDDING SEALER, AS SHOWN ON STANDARD SHEET 680-14. IF THE LOOPS ARE DAMAGED PRIOR TO THE PLACEMENT OF THE TOP COURSE, THE CONTRACTOR SHALL REPLACE THE LOOPS AT NO COST TO THE CONTRACT.

AFFIX SEAL: ON:	ALTERED BY: ON:
<p style="font-size: 2em; margin: 0;">DRAFT NOT FOR CONSTRUCTION</p>	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	U.S. 62 & 950K	US ROUTE 62 & NY 950K				
	FROM KENMORE AVENUE TO ADMIRALS WALK	TOWNS OF AMHERST & TONAWANDA				TRAFFIC SIGNAL GENERAL NOTES AND DETAILS
COUNTY: ERIE	REGION: 5					SHEET NO. 81

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

	C&S Engineers, Inc. 111 Elm Street, Suite 100 Buffalo, New York 14202 Phone: 716-641-1630 Fax: 716-641-1454 www.csis.com		Department of Transportation

FILE NAME = **SYTIME**
 DATE/TIME = DGN#SYTIME0123456
 USER = DGN#USERNAME
 DESIGN SUPERVISOR = J. MORRISSEY
 JOB MANAGER = J. MORRISSEY
 S. GEORGE
 DESIGN = J. DEORDIO
 CHECK = J. DEORDIO
 DRAFTING = J. DEORDIO
 K. McARDELL
 CHECK = D. STANSBURY
 D. STANSBURY
 PROJECT MANAGER = D. BORCZ
 D. BORCZ

**SIGNAL #196FS
 NIAGARA FALLS BLVD
 AT KENILWORTH AVE**

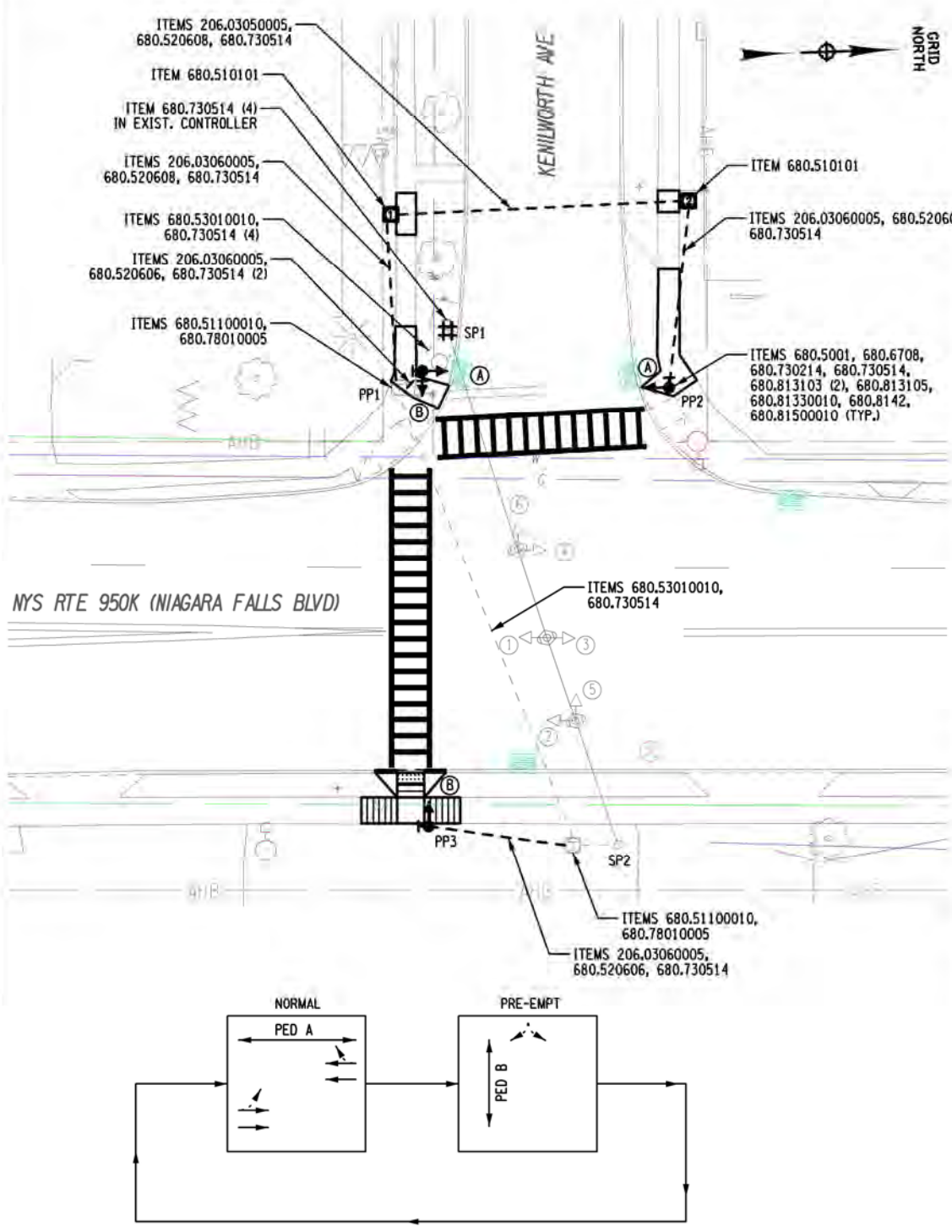


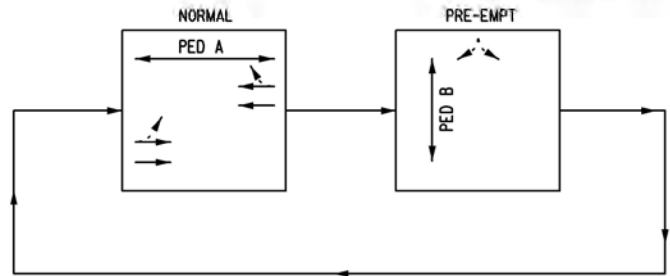
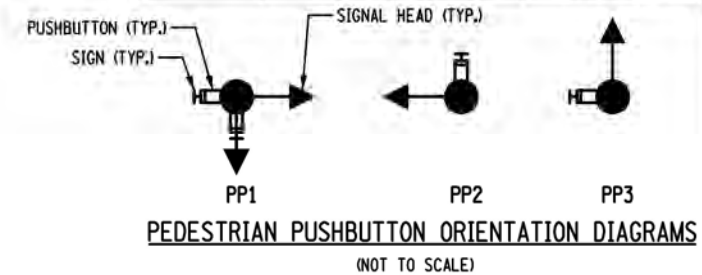
TABLE OF SWITCH PACKS						
SIGNAL NO. 196FS			COUNTY: ERIE			
SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING	
					TERMINAL	WIRE COLOR CODE
SP 1	NORMAL	1, 2, 3, 4	Y	R Y G GROUND WIRE	SP 1R SP 1Y SP 1G GROUND BUS	EXISTING EXISTING EXISTING EXISTING
SP 2					SP 2R SP 2Y SP 2G GROUND BUS	
SP 3					SP 3R SP 3Y SP 3G GROUND BUS	
SP 4					SP 4R SP 4Y SP 4G GROUND BUS	
SP 5					SP 5R SP 5Y SP 5G GROUND BUS	
SP 6					SP 6R SP 6Y SP 6G GROUND BUS	
SP 7	PRE-EMPT PHASE	5, 6	R	R Y G GROUND WIRE	SP 7R SP 7Y SP 7G GROUND BUS	EXISTING EXISTING EXISTING EXISTING
SP 8					SP 8R SP 8Y SP 8G GROUND BUS	
SP 9					SP 9R SP 9Y SP 9G GROUND BUS	
SP 10					SP 10R SP 10Y SP 10G GROUND BUS	
SP 11					SP 11R SP 11Y SP 11G GROUND BUS	
SP 12					SP 12R SP 12Y SP 12G GROUND BUS	
SP 13	PED A	A	W	DW W GROUND WIRE	SP 13R SP 13Y SP 13G GROUND BUS	14/5C-1-R, 14/5C-3-R 14/5C-1-G, 14/5C-3-G 14/5C-1-W, 14/5C-3-W
SP 14	PED B	B	W	DW W GROUND WIRE	SP 14R SP 14Y SP 14G GROUND BUS	14/5C-2-R, 14/5C-4-R 14/5C-2-G, 14/5C-4-G 14/5C-2-W, 14/5C-4-W

TABLE OF CLEARANCES						
TO	FROM					
	R	G	FR	FL	FL	FL
R	R	Y	R	--	--	--
G	G	G	--	--	--	--
FR	FR	--	FR	--	--	--
FL	--	--	--	FL	FL	FL
MAN	--	--	--	MAN	MAN	MAN

TABLE OF OPERATIONS										
PHASE	FACES									
	1	2	3	4	5	6	PED A	PED B		
NORMAL	Y	Y	Y	Y	Y	Y	FL	FL		
PRE-EMPT	FR	FR	FR	FR	FR	FR	FL	FL		
FLASHING OPERATION	FR	FR	FR	FR	FR	FR	DARK	DARK		
DISPLAY										
HEAD LAYOUT	Y	Y	Y	Y	Y	Y	FL	FL		
LENSE SIZE	12"	12"	12"	12"	12"	12"	12"	12"		

OPERATIONS LEGEND
 Ø = PHASE
 R = CIRCULAR RED Y = CIRCULAR YELLOW G = CIRCULAR GREEN
 FR = FLASHING RED FY = FLASHING YELLOW PED = PEDESTRIAN
 DW = HAND (DON'T WALK) W = MAN (WALK)

TABLE OF INPUT WIRING			
SIGNAL NO. 196FS		COUNTY: ERIE	
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING
			1A 1B
			2A 2B
			3A 3B
			4A 4B
			5A 5B
			6A 6B
			7A 7B
			8A 8B
			9A 9B
			10A 10B
PED A	11A & 11B	PUSHBUTTON	11A 11B
PED B	12A & 12B	PUSHBUTTON	12A 12B
			13A 13B
			14A 14B



CUT CONFLICT MONITOR DIODES: 1-13, 7-14
 CUT CURRENT MONITOR DIODES: 13, 14
 CONFLICT MONITOR JUMPERS: SP13, SP14

AWG	NO. OF COND-UCTORS	CABLE NO. FOR THE GIVEN COND-UCTOR SIZE	COLOR OF WIRE	TRACER COLOR
14/19C-1-R/B				
XX/XXC-C-X/X				

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

SIGNAL HEAD WIRING LEGEND

TRAFFIC SIGNAL LEGEND		
SYMBOL		DESCRIPTION
PROPOSED	EXISTING	
[Symbol]	[Symbol]	PULL BOX
[Symbol]	[Symbol]	MICROCOMPUTER CABINET
[Symbol]	[Symbol]	PEDESTRIAN POLE
[Symbol]	[Symbol]	SIGNAL HEAD
[Symbol]	[Symbol]	SIGNAL POLE
[Symbol]	[Symbol]	OVERHEAD SIGN
[Symbol]	[Symbol]	TRAFFIC SIGNAL CONDUIT

15 0 15 30 45 60'
 1" = 30'

PREPARED BY: DONALD D. ADAMS, P.E. ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
U.S. 62/N.Y. REF. RTE. 950K (NIAGARA FALLS BLVD) FROM KENMORE AVE TO ERIE COUNTY LINE PEDESTRIAN SAFETY IMPROVEMENTS TOWNS OF AMHERST AND TONAWANDA COUNTY: ERIE REGION: 5	
PIN 5308.38 BRIDGES CULVERTS ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED CONTRACT NUMBER: D264244 DRAWING NO. TSD-04 SHEET NO. 82	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	

**SIGNAL #276
 NIAGARA FALLS BLVD
 AT LONGMEADOW RD**

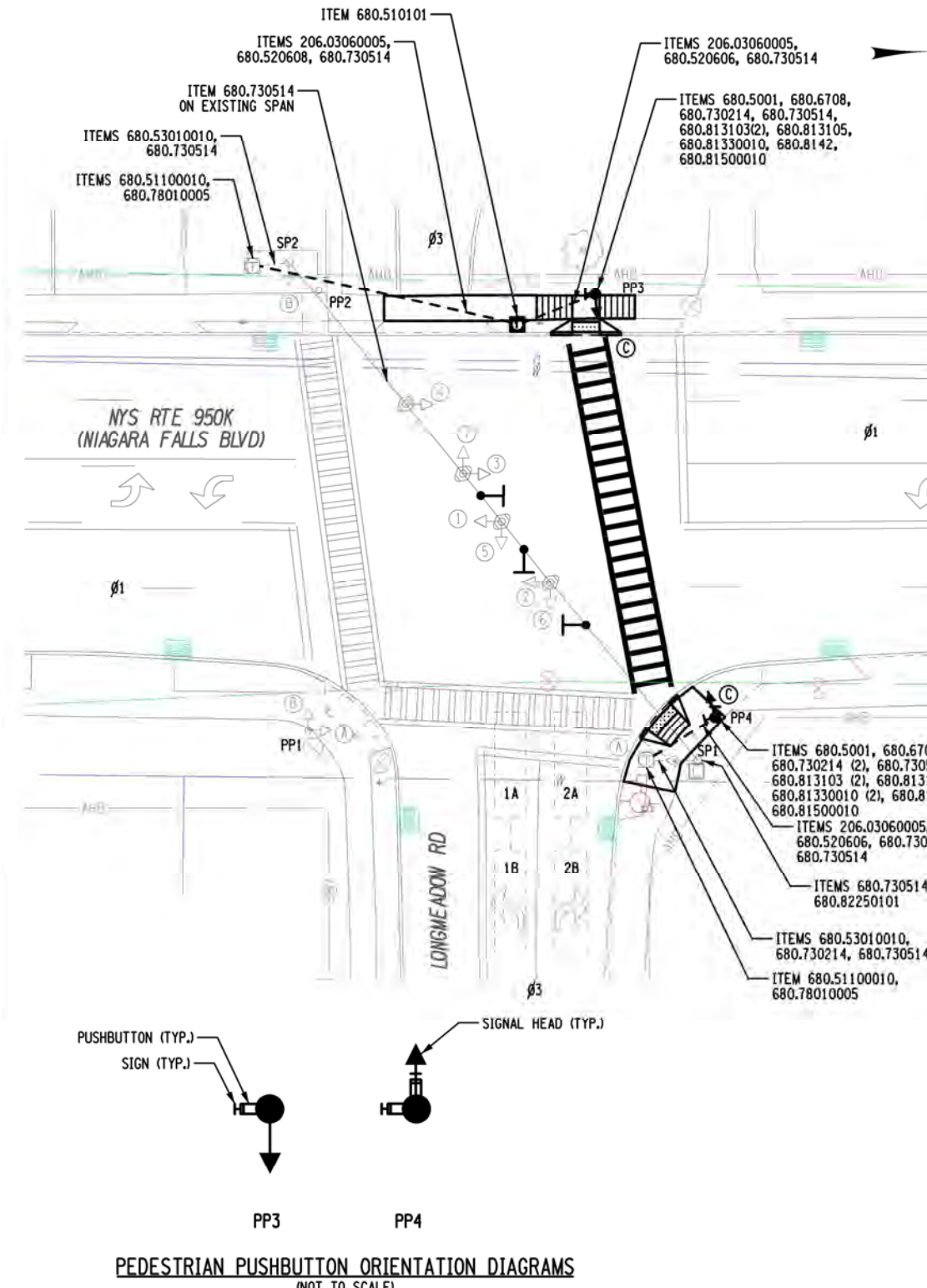


TABLE OF SWITCH PACKS						
SIGNAL NO. 276		COUNTY: ERIE				
SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING	
					TERMINAL	WIRE COLOR CODE
SP 1	Ø1	1, 2, 3, 4	Y	R Y G GROUND WIRE	SP 1R SP 1Y SP 1G GROUND BUS	EXISTING EXISTING EXISTING EXISTING
SP 2					SP 2R SP 2Y SP 2G GROUND BUS	
SP 3					SP 3R SP 3Y SP 3G GROUND BUS	
SP 4					SP 4R SP 4Y SP 4G GROUND BUS	
SP 5					SP 5R SP 5Y SP 5G GROUND BUS	
SP 6					SP 6R SP 6Y SP 6G GROUND BUS	
SP 7	Ø3	5, 6, 7	R	R Y G GROUND WIRE	SP 7R SP 7Y SP 7G GROUND BUS	EXISTING EXISTING EXISTING EXISTING
SP 8					SP 8R SP 8Y SP 8G GROUND BUS	
SP 9					SP 9R SP 9Y SP 9G GROUND BUS	
SP 10					SP 10R SP 10Y SP 10G GROUND BUS	
SP 11	PED A	A	W	DW W GROUND WIRE	SP 11R SP 11Y SP 11G GROUND BUS	EXISTING EXISTING EXISTING EXISTING
SP 12	PED B	B	W	DW W GROUND WIRE	SP 12R SP 12Y SP 12G GROUND BUS	EXISTING EXISTING EXISTING EXISTING
SP 13	PED C	C	W	DW W GROUND WIRE	SP 13R SP 13Y SP 13G GROUND BUS	14/5C-1-R, 14/5C-2-R 14/5C-1-G, 14/5C-2-G 14/5C-1-W, 14/5C-2-W
SP 14					SP 14R SP 14Y SP 14G GROUND BUS	

TABLE OF CLEARANCES				
TO	FROM			
	R	G	Hand	Man
R	Y	--	--	--
G	G	--	--	--
Hand	--	--	FLASHING	FLASHING
Man	--	--	FLASHING	FLASHING

TABLE OF OPERATIONS												
PHASE	FACES											
	1	2	3	4	5	6	7	8	9	10	11	12
Ø1	D	D	D	D	R	R	R	R	R	R	R	R
Ø3	W	W	R	R	D	D	D	D	D	D	D	D
FLASHING OPERATION	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR	FR
DISPLAY												
HEAD LAYOUT	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
LENSE SIZE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	12"

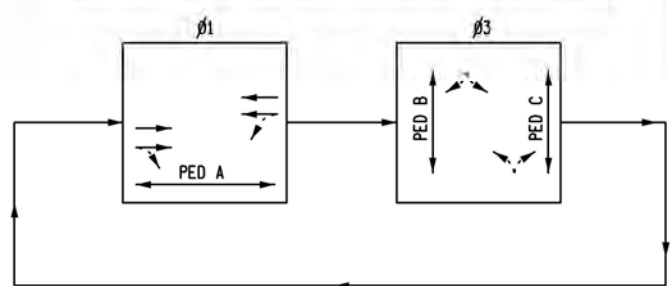
OPERATIONS LEGEND
 Ø = PHASE

R = CIRCULAR RED
 FR = FLASHING RED
 DW = HAND (DON'T WALK)

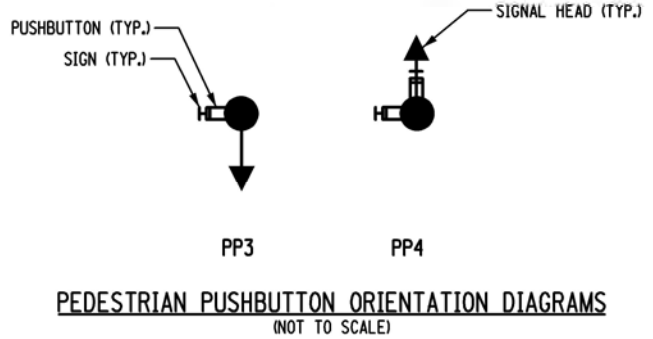
Y = CIRCULAR YELLOW
 FY = FLASHING YELLOW
 W = MAN (WALK)

G = CIRCULAR GREEN
 PED = PEDESTRIAN

TABLE OF INPUT WIRING			
SIGNAL NO. 276		COUNTY: ERIE	
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING
Ø3 PRESENCE	1A & 1B	EXISTING	1A 1B
Ø3 PRESENCE	2A & 2B	EXISTING	2A 2B
			3A 3B
			4A 4B
			5A 5B
			6A 6B
			7A 7B
			8A 8B
			9A 9B
			10A 10B
PED A	11A & 11B	EXISTING	11A 11B
PED B	12A & 12B	EXISTING	12A 12B
PED C	13A & 13B	PUSHBUTTON	13A 13B
			14A 14B

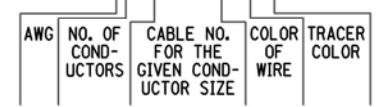


PHASING SEQUENCE DIAGRAM



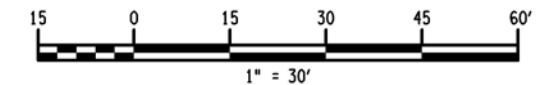
PEDESTRIAN PUSHBUTTON ORIENTATION DIAGRAMS
 (NOT TO SCALE)

CUT CONFLICT MONITOR DIODES: 7-13
 CUT CURRENT MONITOR DIODES: 13
 CONFLICT MONITOR JUMPERS: SP13



COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

SIGNAL HEAD WIRING LEGEND



PREPARED BY: DONALD D. ADAMS, P.E.
 ON:

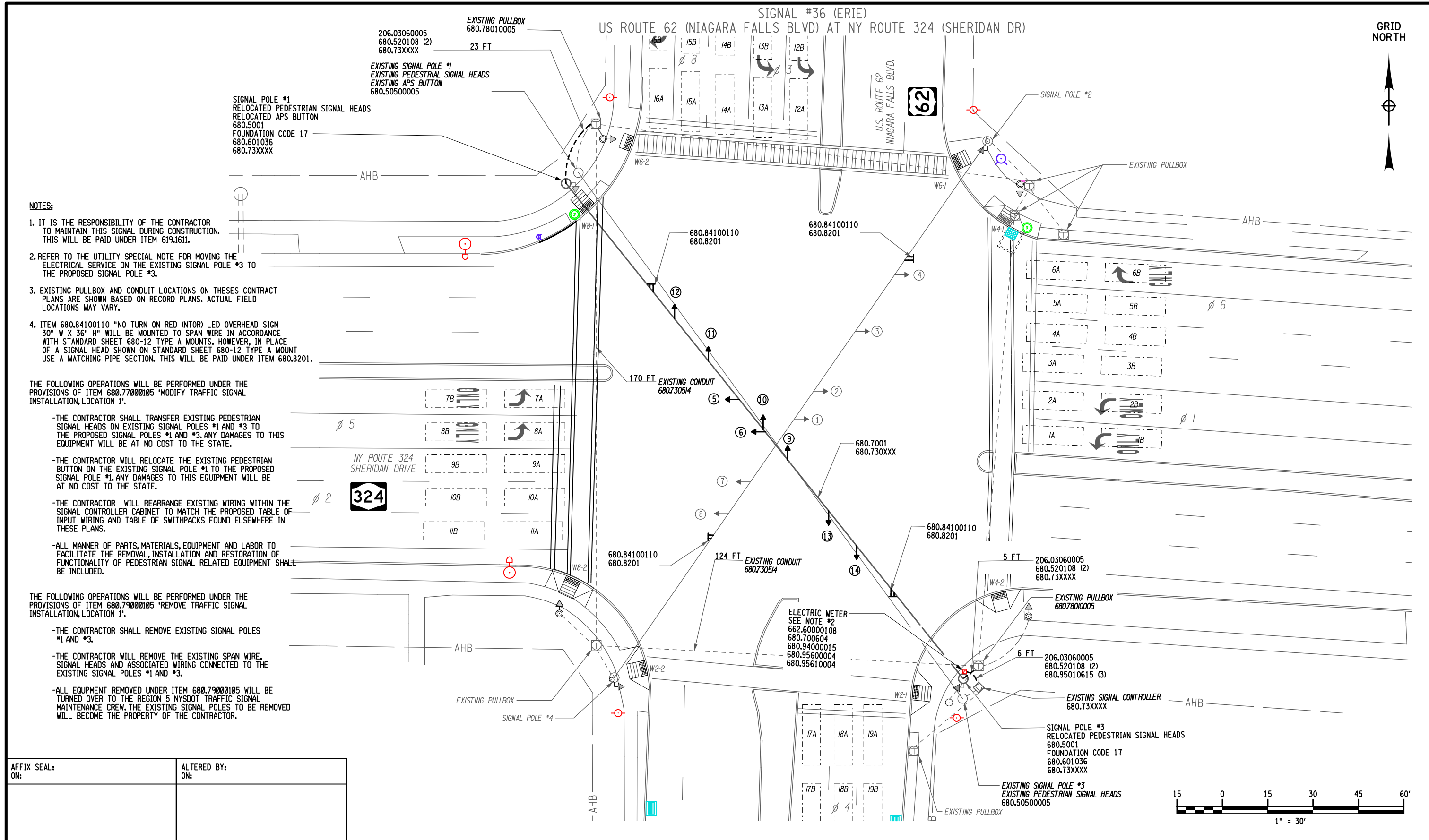
ALTERED BY:
 ON:

- NOTES:**
- SEE DWG. GNP-10 FOR SIGNING, STRIPING, AND SIDEWALK WORK.
 - BEFORE ORDERING THE POLES, THE CONTRACTOR SHALL DIG TEST HOLES AT THE POLE FOUNDATION LOCATIONS TO VERIFY THAT THE AREA IS CLEAR. IF CONFLICTS ARE FOUND THE CONTRACTOR WILL NOTIFY THE DESIGNER AND AN ALTERNATIVE POLE LOCATION WILL BE DETERMINED.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:
U.S. 62/N.Y. REF. RTE. 950K (NIAGARA FALLS BLVD)
FROM KENMORE AVE TO ERIE COUNTY LINE
PEDESTRIAN SAFETY IMPROVEMENTS
TOWNS OF AMHERST AND TONAWANDA
COUNTY: ERIE REGION: 5

PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244
GENERAL PLAN NIAGARA FALLS BLVD/LONGMEADOW RD SIGNAL NO. 276			DRAWING NO. TSD-05	SHEET NO. 83

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- NOTES:**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THIS SIGNAL DURING CONSTRUCTION. THIS WILL BE PAID UNDER ITEM 619.161L.
 - REFER TO THE UTILITY SPECIAL NOTE FOR MOVING THE ELECTRICAL SERVICE ON THE EXISTING SIGNAL POLE #3 TO THE PROPOSED SIGNAL POLE #3.
 - EXISTING PULLBOX AND CONDUIT LOCATIONS ON THESE CONTRACT PLANS ARE SHOWN BASED ON RECORD PLANS. ACTUAL FIELD LOCATIONS MAY VARY.
 - ITEM 680.84100110 "NO TURN ON RED (NTOR) LED OVERHEAD SIGN 30" W X 36" H" WILL BE MOUNTED TO SPAN WIRE IN ACCORDANCE WITH STANDARD SHEET 680-12 TYPE A MOUNTS. HOWEVER, IN PLACE OF A SIGNAL HEAD SHOWN ON STANDARD SHEET 680-12 TYPE A MOUNT USE A MATCHING PIPE SECTION. THIS WILL BE PAID UNDER ITEM 680.8201.
- THE FOLLOWING OPERATIONS WILL BE PERFORMED UNDER THE PROVISIONS OF ITEM 680.77000105 "MODIFY TRAFFIC SIGNAL INSTALLATION, LOCATION 1".
- THE CONTRACTOR SHALL TRANSFER EXISTING PEDESTRIAN SIGNAL HEADS ON EXISTING SIGNAL POLES #1 AND #3 TO THE PROPOSED SIGNAL POLES #1 AND #3. ANY DAMAGES TO THIS EQUIPMENT WILL BE AT NO COST TO THE STATE.
 - THE CONTRACTOR WILL RELOCATE THE EXISTING PEDESTRIAN BUTTON ON THE EXISTING SIGNAL POLE #1 TO THE PROPOSED SIGNAL POLE #1. ANY DAMAGES TO THIS EQUIPMENT WILL BE AT NO COST TO THE STATE.
 - THE CONTRACTOR WILL REARRANGE EXISTING WIRING WITHIN THE SIGNAL CONTROLLER CABINET TO MATCH THE PROPOSED TABLE OF INPUT WIRING AND TABLE OF SWITHPACKS FOUND ELSEWHERE IN THESE PLANS.
 - ALL MANNER OF PARTS, MATERIALS, EQUIPMENT AND LABOR TO FACILITATE THE REMOVAL, INSTALLATION AND RESTORATION OF FUNCTIONALITY OF PEDESTRIAN SIGNAL RELATED EQUIPMENT SHALL BE INCLUDED.
- THE FOLLOWING OPERATIONS WILL BE PERFORMED UNDER THE PROVISIONS OF ITEM 680.79000105 "REMOVE TRAFFIC SIGNAL INSTALLATION, LOCATION 1".
- THE CONTRACTOR SHALL REMOVE EXISTING SIGNAL POLES #1 AND #3.
 - THE CONTRACTOR WILL REMOVE THE EXISTING SPAN WIRE, SIGNAL HEADS AND ASSOCIATED WIRING CONNECTED TO THE EXISTING SIGNAL POLES #1 AND #3.
 - ALL EQUIPMENT REMOVED UNDER ITEM 680.79000105 WILL BE TURNED OVER TO THE REGION 5 NYS DOT TRAFFIC SIGNAL MAINTENANCE CREW. THE EXISTING SIGNAL POLES TO BE REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR.

AFFIX SEAL: ON:	ALTERED BY: ON:
--------------------	--------------------

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	PEDESTRIAN SAFETY IMPROVEMENTS	PIN 5308.38 US RT 62 UTILITY QUALITY LEVEL D	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAILS SIGNAL #36 - US ROUTE 62 AT NY ROUTE 324	CONTRACT NUMBER D264244
	US ROUTE 62 (NIAGARA FALLS BLVD) & NY ROUTE 950K/NY ROUTE 324 (SHERIDAN DR) TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 05					DRAWING NO. TSD-06 SHEET NO. 84
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

QUANTITY AND ITEM LIST			
SIGNAL #36 - US 62 (NIAGARA FALLS BLVD) @ NY ROUTE 324 (SHERIDAN DR)			
ITEM NO.	DESCRIPTION	UNIT	QTY
206.03060005	CONDUIT EXCAV & BACKFILL (NOT IN ROADWAY)	FT	x
619.1611	MAINTAIN TRAFFIC SIGNAL EQUIP (REQ A)	INT MO	x
662.6000108	FURNISHING ELECTRICAL SERVICE	DC	x
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	15
680.50500005	REMOVE POLE FOUNDATION	FT	28
680.520105	CONDUIT, STEEL, ZINC COATED, 1 1/2 NPS	FT	X
680.520506	CONDUIT, RIGID PLASTIC, CLASS 1, 2 NPS	FT	X
680.520508	CONDUIT, RIGID PLASTIC, CLASS 1, 3 NPS	FT	X
680.601036	TRAFFIC SIGNAL POLE-SPAN WIRE 10,000 POUND LOAD, 36 FEET LONG	EA	2
680.7001	SINGLE SPAN WIRE ASSEMBLY	EA	1
680.700604	RISER ASSEMBLY, 1-1/2" DIA.	EA	x
680.730214	SIGNAL CABLE, 2 CONDUCTOR, 14 AWG	FT	x
680.730514	SIGNAL CABLE, 5 CONDUCTOR, 14 AWG	FT	x
680.730714	SIGNAL CABLE, 7 CONDUCTOR, 14 AWG	FT	x
680.77000105	MODIFY TRAFFIC SIGNAL INSTALLATION, LOCATION 1	ELOC	1
680.78010005	ALTER PULLBOX FOR CONDUITS	EA	2
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION, LOCATION 1	EA	1
680.810101	SIGNAL MODULE - 12 IN, RED BALL LED	EA	4
680.810102	SIGNAL MODULE - 12 IN, RED ARROW LED	EA	4
680.810103	SIGNAL MODULE - 12 IN, YELLOW BALL LED	EA	4
680.810104	SIGNAL MODULE - 12 IN, YELLOW ARROW LED	EA	4
680.810105	SIGNAL MODULE - 12 IN, GREEN BALL LED	EA	4
680.810106	SIGNAL MODULE - 12 IN, GREEN ARROW LED	EA	4
680.810601	SIGNAL SECTION, POLYCARBONATE, TYPE 1, 12IN	EA	24
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EA	8
680.8201	OVERHEAD SIGN ASSEMBLY, TYPE A	EA	4
680.84100110	NO TURN ON RED (NTOR) LED OVERHEAD SIGN 30" W X 36" H	EA	4
680.94000015	RAINTIGHT DISCONNECT BOX	EA	1
680.94997008	F AND I ELECTRICAL DISCONNECT GEN. TRAN SWITCH	EA	x
680.95010615	SERVICE CABLE, 1 CONDUCTOR, 6 AWG	FT	X
680.95600004	ELECTRICAL METER PAN	EA	1
680.95610004	POWER DISTRIBUTION PANEL	EA	1
690.11000105	SPECIALTY WORK (ELECTRICAL)	LS	X

SIGNAL #36 (ERIE) NIAGARA FALLS BLVD AT SHERIDAN DR

- NOTES:**
- 1) CONDUIT ORIENTATION SHOWN MAY DIFFER FROM REQUIRED ORIENTATION. FIELD VERIFY BEFORE CONDUIT INSTALLATION.
 - 2) DISTANCES SHOWN ARE APPROXIMATE. SIGNAL HEADS AND SIGNS MAY BE ADJUSTED IN THE FIELD WITH APPROVAL OF EIC.
 - 3) POWER METER AND DISCONNECT/TRANSFER SWITCH SHALL BE INSTALLED AS PER STANDARD SHEET 680-05.
 - 4) CONTRACTOR IS RESPONSIBLE THAT POWER METER IS AT A HEIGHT THAT COMPLIES WITH ALL REQUIREMENTS AND ELECTRICAL CODES AS PUT FORTH BY ELECTRICAL UTILITY SUPPLIER.
 - 5) DISCONNECT/TRANSFER SWITCH REQUIRES A HOLE FOR ACCESS TO THE INTERIOR OF THE SIGNAL POLE. THE HOLE IS REQUIRED TO BE GREATER THAN 11/16", THEREFORE, THIS HOLE CAN NOT BE FIELD DRILLED. THIS HOLE MUST BE MADE BY SIGNAL POLE MANUFACTURER. (PER SPEC 724-03)



SIGNAL HEAD DATA TABLE								
ITEM	680.810101	680.810102	680.810103	680.810104	680.810105	680.810106	680.810601	680.8111
FACE								
5		1		1		1	3	1
6		1		1		1	3	1
9		1		1		1	3	1
10		1		1		1	3	1
11	1		1		1		3	1
12	1		1		1		3	1
13	1		1		1		3	1
14	1		1		1		3	1
TOTALS	4 EA	4 EA	4 EA	4 EA	4 EA	4 EA	24 EA	8 EA

SIGNAL HEAD ALIGNMENT NOTES:

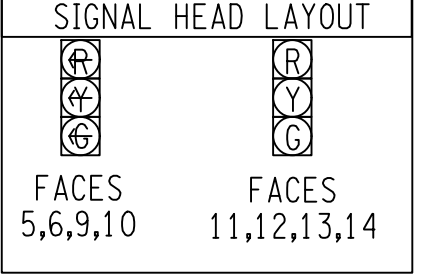
ALIGN HEADS ⑤ AND ⑥ CENTERED OVER THE LANE.

ALIGN HEADS ⑨ AND ⑩ CENTERED OVER THE LANE.

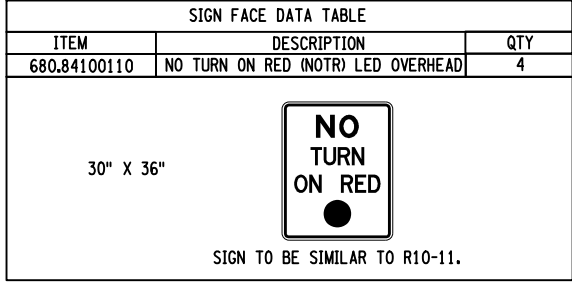
ALIGN HEADS ⑪ AND ⑫ OVER THE LANE LINE.

ALIGN HEADS ⑬ AND ⑭ OVER THE LANE LINE.

ITEM 680.84100110 TO BE LOCATED 3 FEET ± TO RIGHT OF SIGNALS ④, ⑧, ⑫, AND ⑭ OR AS DIRECTED BY EIC.



- KEY**
- R - RED BALL
 - Y - YELLOW BALL
 - G - GREEN BALL
 - Ⓡ - RED ARROW
 - Ⓨ - YELLOW ARROW
 - ⓎⓎ - FLASHING YELLOW ARROW
 - Ⓞ - GREEN ARROW



TRAFFIC SIGNAL #36 (ERIE)

POWER SUPPLIER: _____

EXISTING METER #: _____ NEW METER #: _____

EXISTING ACCOUNT #: _____ NEW ACCOUNT #: _____

BILLING TO: _____

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	PEDESTRIAN SAFETY IMPROVEMENTS	PIN 5308.38 US RT 62 UTILITY QUALITY LEVEL D	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAILS SIGNAL #36 - US ROUTE 62 AT NY ROUTE 324	CONTRACT NUMBER D264244
	US ROUTE 62 (NIAGARA FALLS BLVD) & NY ROUTE 950K/NY ROUTE 324 (SHERIDAN DR)					DRAWING NO. TSD-07 SHEET NO. 85
TOWNS OF AMHERST & TONAWANDA		REGION: 05	Department of Transportation			
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

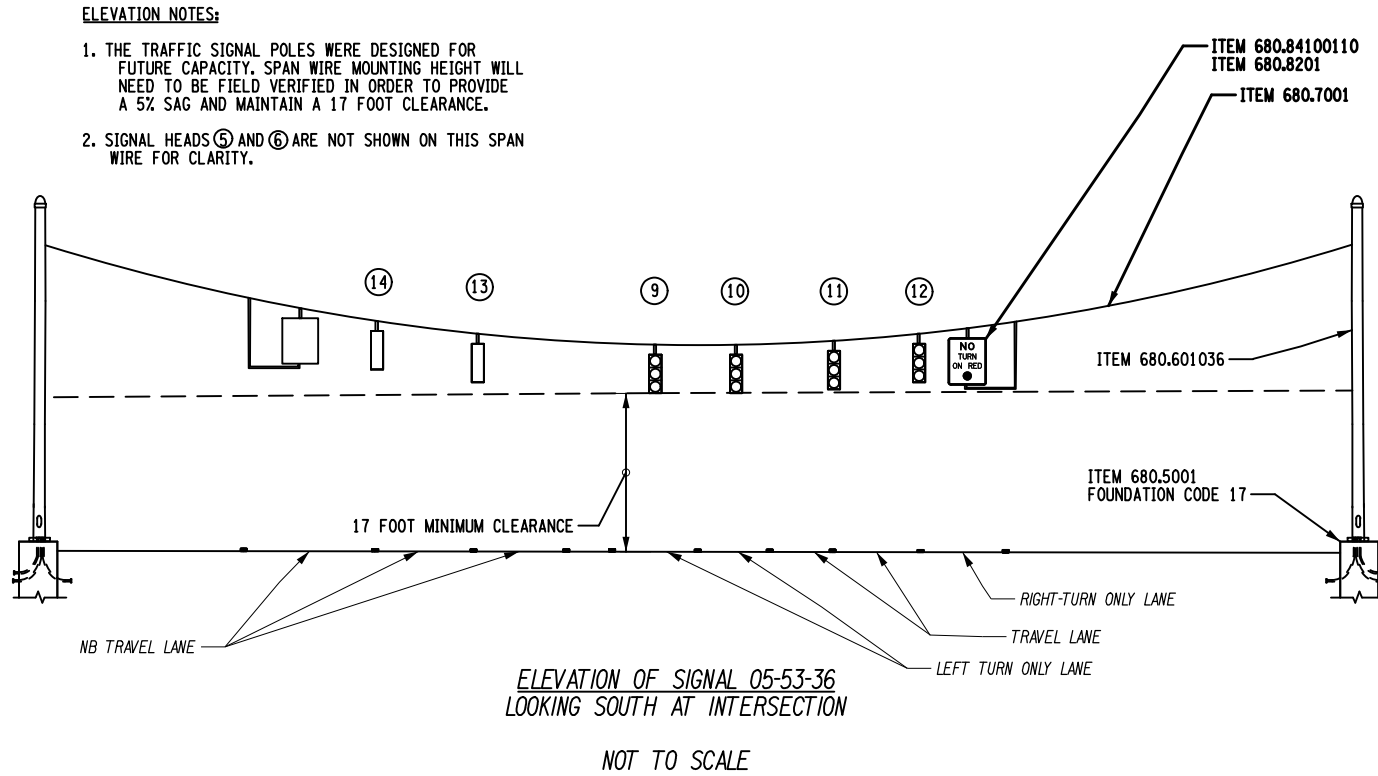


TABLE OF INPUT WIRING				
SIGNAL NO.	ABC AVENUE AT XYZ STREET			COUNTY:
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
			1A, 1B	
			2A, 2B	
			3A, 3B	
			4A, 4B	
			5A, 5B	
			6A, 6B	
			7A, 7B	
			8A, 8B	
			9A, 9B	
			10A, 10B	
			11A, 11B	
			12A, 12B	
			13A, 13B	
			14A, 14B	
			15A, 15B	
			16A, 16B	
			17A, 17B	
			18A, 18B	
			19A, 19B	
			20A, 20B	
			21A, 21B	
			22A, 22B	
			23A, 23B	
			24A, 24B	
			25A, 25B	
			26A, 26B	
			27A, 27B	
			28A, 28B	

CUT CONFLICT MONITOR DIODES:
 CUT CURRENT MONITOR DIODES:
 CONFLICT MONITOR JUMPERS:

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

PEDESTRIAN SAFETY IMPROVEMENTS US ROUTE 62 (NIAGARA FALLS BLVD) & NY ROUTE 950K/NY ROUTE 324 (SHERIDAN DR) TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 05	PIN 5308.38 US RT 62 UTILITY QUALITY LEVEL D	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAILS SIGNAL #36 - US ROUTE 62 AT NY ROUTE 324	CONTRACT NUMBER D264244 DRAWING NO. TSD-08 SHEET NO. 86
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					

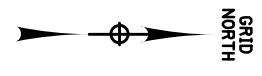
TABLE OF SWITCH PACKS						
SIGNAL NO.		ABC AVENUE AT XYZ STREET			COUNTY:	
SWITCH PACK	FUNCTION	FACE NO.S	FLASH PLUG COLOR	INDICATIONS	TERMINAL BOARD WIRING	
					TERMINAL	WIRE COLOR CODE
SP 1				GRND WIRE	SP 1R SP 1Y SP 1G GRND BUS	
SP 2				GRND WIRE	SP 2R SP 2Y SP 2G GRND BUS	
SP 3				GRND WIRE	SP 3R SP 3Y SP 3G GRND BUS	
SP 4				GRND WIRE	SP 4R SP 4Y SP 4G GRND BUS	
SP 5				GRND WIRE	SP 5R SP 5Y SP 5G GRND BUS	
SP 6				GRND WIRE	SP 6R SP 6Y SP 6G GRND BUS	
SP 7				GRND WIRE	SP 7R SP 7Y SP 7G GRND BUS	
SP 8				GRND WIRE	SP 8R SP 8Y SP 8G GRND BUS	
SP 9				GRND WIRE	SP 9R SP 9Y SP 9G GRND BUS	
SP 10				GRND WIRE	SP 10R SP 10Y SP 10G GRND BUS	
SP 11				GRND WIRE	SP 11R SP 11Y SP 11G GRND BUS	
SP 12				GRND WIRE	SP 12R SP 12Y SP 12G GRND BUS	
SP 13				GRND WIRE	SP 13R SP 13Y SP 13G GRND BUS	
SP 14				GRND WIRE	SP 14R SP 14Y SP 14G GRND BUS	

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

PEDESTRIAN SAFETY IMPROVEMENTS US ROUTE 62 (NIAGARA FALLS BLVD) & NY ROUTE 950K/NY ROUTE 324 (SHERIDAN DR) TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 05	PIN 5308.38 US RT 62 UTILITY QUALITY LEVEL D	BRIDGES CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244
			TRAFFIC SIGNAL DETAILS	
			SIGNAL #36 - US ROUTE 62 AT NY ROUTE 324	
			DRAWING NO. TSD-09 SHEET NO. 87	

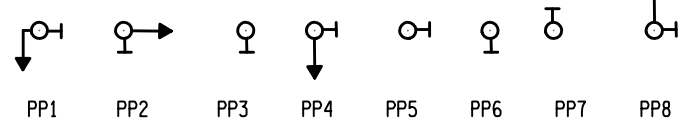
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





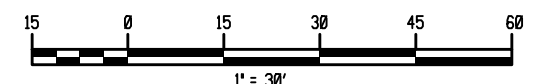
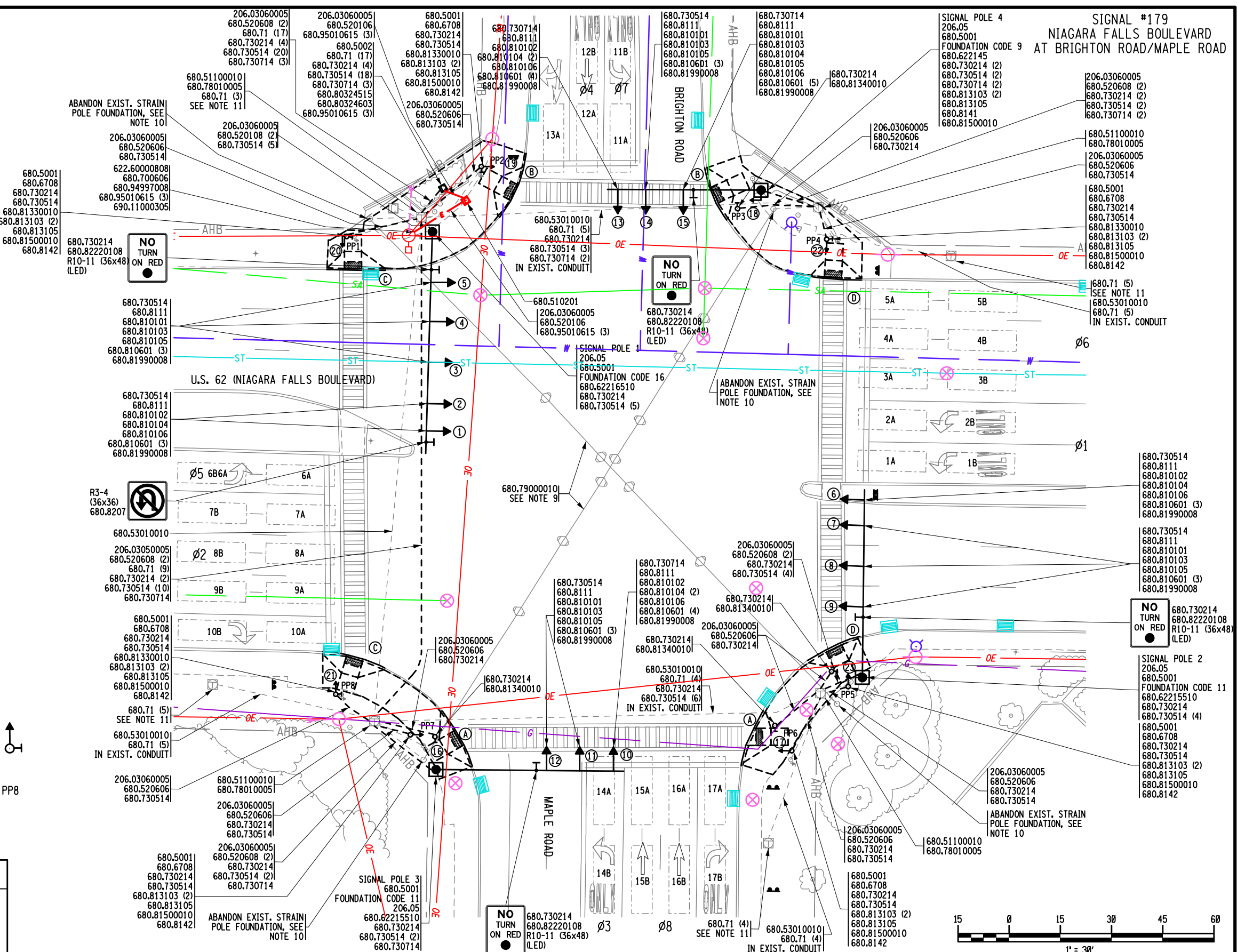
NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE NYS STANDARD SHEETS.
2. PRIOR TO BEGINNING ANY WORK THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC SIGNAL SECTION TO PERFORM AN INSPECTION OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. AFTER THE INSPECTION, THE CONTRACTOR MUST SUBMIT A WRITTEN NOTIFICATION WITH THE DATE THEY WILL ASSUME TRAFFIC SIGNAL MAINTENANCE, NO WORK SHALL PROCEED UNTIL TRAFFIC SIGNAL MAINTENANCE IS ASSUMED, THE EXISTING TRAFFIC SIGNAL SHALL BE MAINTAINED UNDER ITEM 619.1611 EXCEPT FOR THE CONTROLLER, PROGRAMMING AND TIMING WHICH SHALL BE MAINTAINED BY THE STATE.
3. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED. THE CONTRACTOR SHALL PAY A LIQUIDATED DAMAGES CHARGE OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.
4. ALL VEHICLE DETECTION AND SIGNAL COORDINATION MUST BE MAINTAINED AT ALL TIMES, UNLESS WRITTEN PERMISSION IS OBTAINED BY NYSOT REPRESENTATIVE.
5. THE EXISTING CONTROLLER, CABINETS AND ALL ITS CONTENTS, LED TRAFFIC SIGNAL MODULES, LED PEDESTRIAN MODULES, ADA PEDESTRIAN PUSH BUTTONS, POLE CAPS, AND HAND HOLE COVERS, SHALL BE RETURNED TO THE STATE. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR.
6. WHERE THERE IS A POTENTIAL FOR DANGEROUS PROXIMITY OR CONTACT WITH ENERGIZED ELECTRICAL SYSTEMS, UTILITIES SHALL BE CALLED TO DECIDE THE NEED TO DE-ENERGIZE OR INSULATE LINES, OR OTHERWISE PROTECT AGAINST ACCIDENTAL CONTACT.
7. ALL TRAFFIC SIGNAL SECTIONS SHALL BE FURNISHED WITH OPEN TUNNEL VISORS.
8. THE 2 CONDUCTOR SIGNAL CABLE FROM THE SEPARATE PEDESTRIAN PUSHBUTTON POST SHALL BE ROUTED BACK TO THE POLE WHERE ITS ASSOCIATED PEDESTRIAN SIGNAL HEAD IS MOUNTED, IT WILL THEN BE WIRED TO THE TERMINAL BLOCK WITHIN THE PEDESTRIAN SIGNAL HEAD AND RUN BACK TO THE CONTROLLER CABINET ON THE 5 CONDUCTOR CABLE THAT IS WIRED FOR THE PEDESTRIAN SIGNAL HEAD.
9. THE FOLLOWING EQUIPMENT SHALL BE REMOVED UNDER THE PROVISIONS OF ITEM 680.7900010; CONTROLLER, CABINET, SPAN WIRE, SIGNAL HEADS, WIRES AND ALL RELATED HARDWARE.
10. EXISTING STRAIN POLE FOUNDATIONS SHALL BE REMOVED TO 1 FOOT BELOW FINISHED GRADE UNDER ITEM 680.5050005.
11. THE CONTRACTOR SHALL SPLICE THE NEW SHIELDED LEAD-IN CABLE (ITEM 680.71) TO THE EXISTING INDUCTANCE LOOP WIRE CABLE WITHIN THE EXISTING PULLBOX.



PEDESTRIAN PUSHBUTTON ORIENTATION DIAGRAMS (NOT TO SCALE)

AFFIX SEAL: RYAN M. WINTER, P.E. ON:	ALTERED BY: ON:
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	U.S. 62 & NY 950K	US ROUTE 62 & NY 950K				TRAFFIC SIGNAL DETAIL
	FROM KENMORE AVENUE TO ADMIRALS WALK				LOCATION NO. U.S. 62 (NIAGARA FALLS BLVD.) AND BRIGHTON ROAD/ MAPLE ROAD	DRAWING NO. TSD-10
	TOWNS OF AMHERST & TONAWANDA					SHEET NO. 88
	COUNTY: ERIE	REGION: 5				

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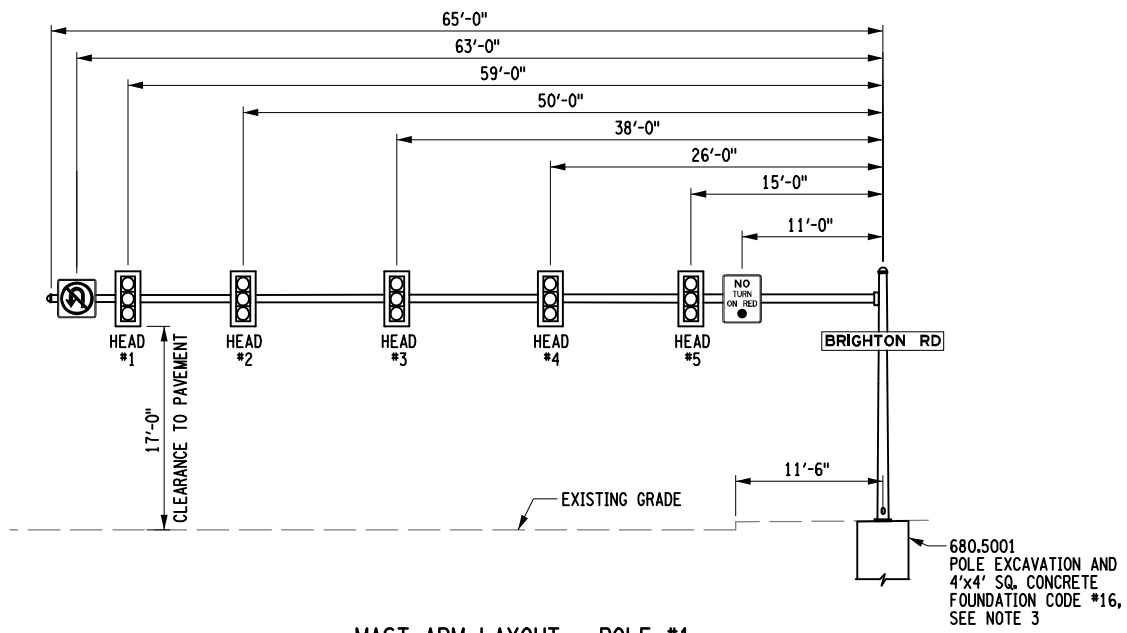


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DATE/TIME = 3/5/2020
USER = aguglielmi

PROJECT MANAGER: W. HOLSBERGER
CHECK: A. GUGLIELMI
DRAFTING: J. DONNAN
CHECK: M. KENNEDY
DESIGN: R. WINTER
JOB MANAGER: R. WINTER
DESIGN SUPERVISOR: W. HOLSBERGER

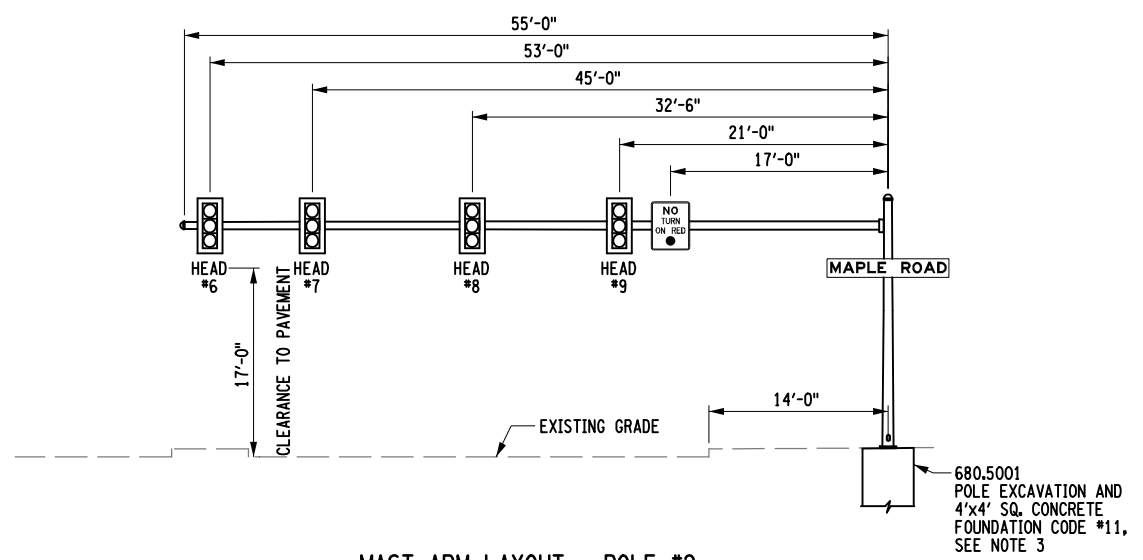
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 DATE/TIME = 3/5/2020
 USER = Aguglielmi

DESIGN SUPERVISOR W. HOLSBERGER
 JOB MANAGER R. WINTER
 DESIGN R. WINTER
 CHECK M. KENNEDY
 DRAFTING J. DONNAN
 CHECK A. GUGLIELMI
 PROJECT MANAGER W. HOLSBERGER



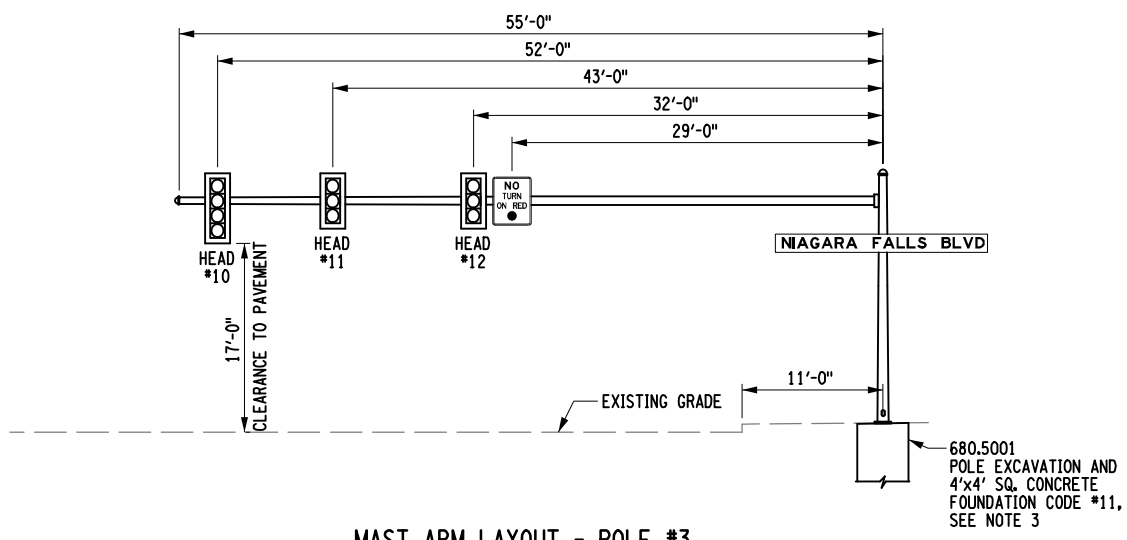
MAST ARM LAYOUT - POLE #1
 LOOKING SOUTH

680.5001
 POLE EXCAVATION AND
 4'x4' SQ. CONCRETE
 FOUNDATION CODE #16,
 SEE NOTE 3



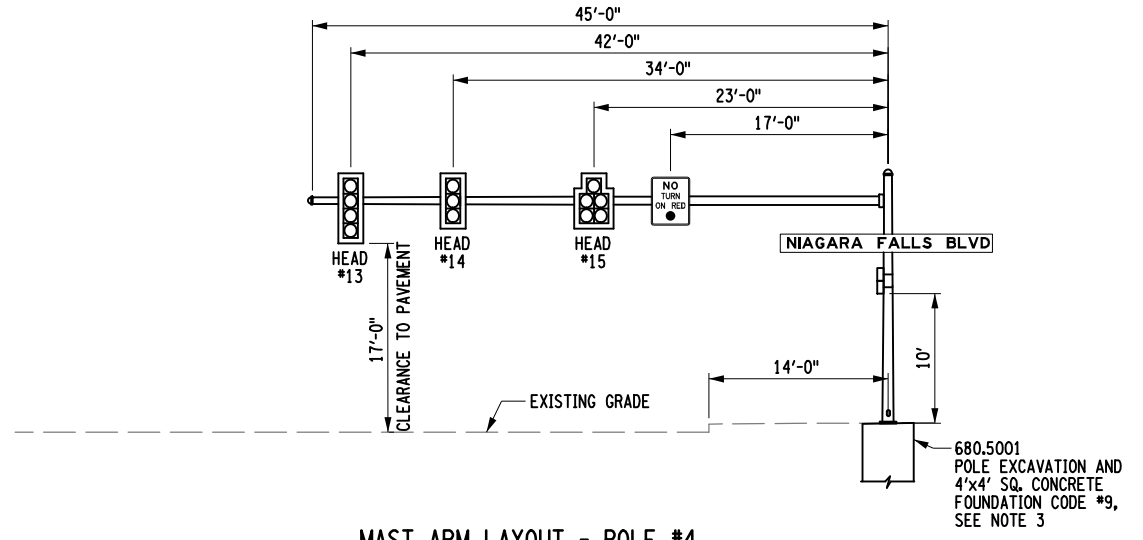
MAST ARM LAYOUT - POLE #2
 LOOKING NORTH

680.5001
 POLE EXCAVATION AND
 4'x4' SQ. CONCRETE
 FOUNDATION CODE #11,
 SEE NOTE 3



MAST ARM LAYOUT - POLE #3
 LOOKING EAST

680.5001
 POLE EXCAVATION AND
 4'x4' SQ. CONCRETE
 FOUNDATION CODE #11,
 SEE NOTE 3



MAST ARM LAYOUT - POLE #4
 LOOKING WEST

680.5001
 POLE EXCAVATION AND
 4'x4' SQ. CONCRETE
 FOUNDATION CODE #9,
 SEE NOTE 3

MAST ARM LOCATION TABLE		
POLE NO.	NORTHING	EASTING
1	1089802.705	1084222.698
2	1089928.337	1084353.657
3	1089899.018	1084210.732
4	1089803.306	1084380.312

- NOTES:
- DISTANCES ARE APPROXIMATE, SIGNAL HEADS AND SIGNS MAY BE ADJUSTED IN FIELD WITH APPROVAL OF EIC.
 - FOR SIGNAL ITEMS SEE DRAWING NO. TSD-05
 - MAST ARM DESIGN WIND SPEED = 80MPH

AFFIX SEAL: RYAN M. WINTER, P.E.
 ON: _____
 ALTERED BY:
 ON: _____

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38
U.S. 62 & NY 950K	US ROUTE 62
FROM KENMORE AVENUE TO ADMIRALS WALK	
TOWNS OF AMHERST & TONAWANDA	
COUNTY: ERIE	REGION: 5

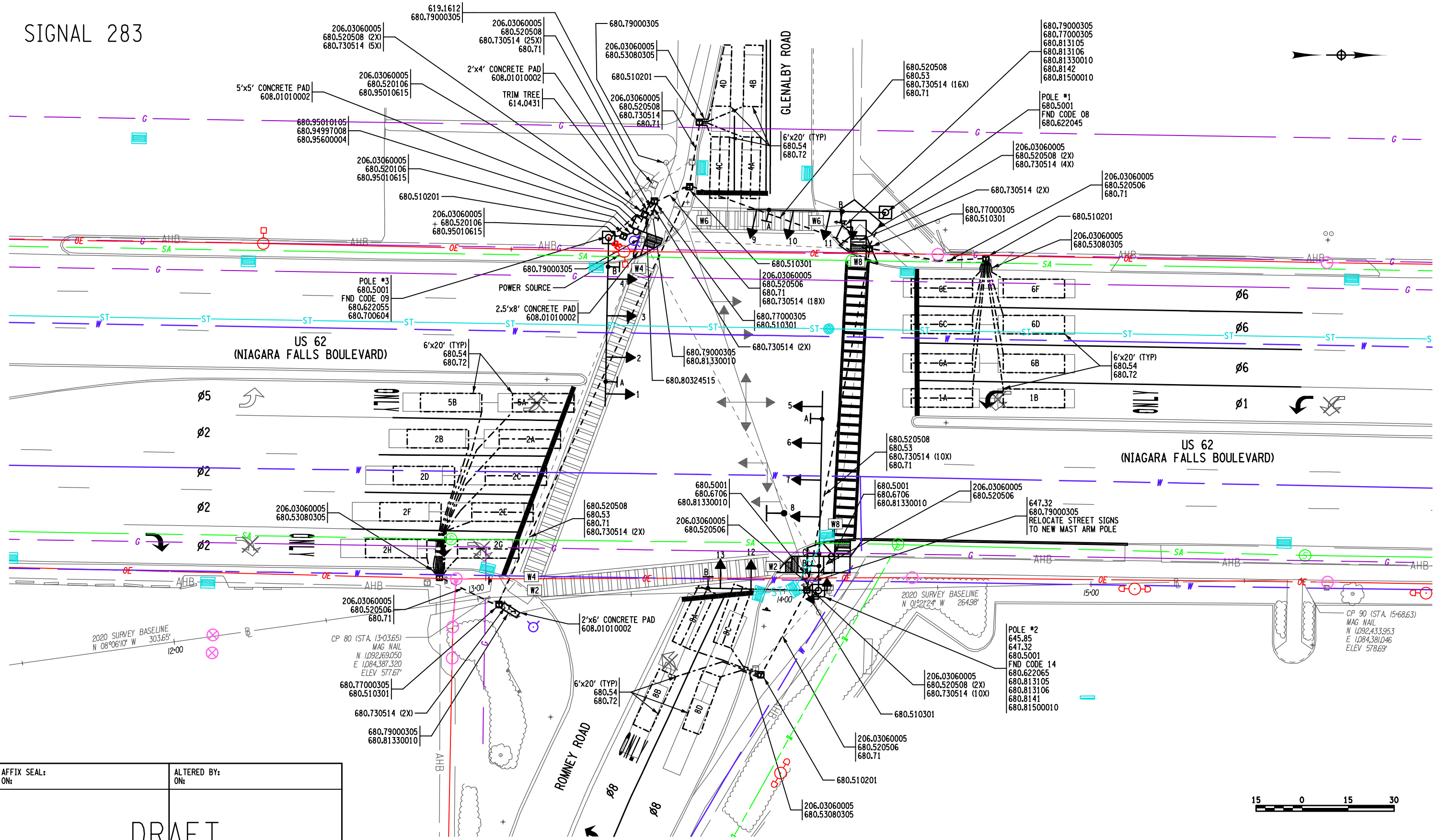
BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244
		TRAFFIC SIGNAL DETAILS	DRAWING NO. TSD-12 SHEET NO. 90

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

FILE NAME = F:\Project\190 - N.Y.S. DEPT OF TRANSPORTATION\190526001 PSAP R3-6-Design\Technical\WVSDOT Region 5 Information\NFB Signals\Pin 5308.38\30 Scale_Sheet Files\Erie_US 62 @ Romney_Glenalby.dgn
 DATE/TIME = 3/4/2020
 USER = abrownell

DESIGN SUPERVISOR J. MORRISSEY JOB MANAGER S. GEORGE DESIGN J. DEORDIO CHECK D. STANSBURY DRAFTING K. McARDRELL CHECK D. STANSBURY PROJECT MANAGER D. BORCZ

SIGNAL 283



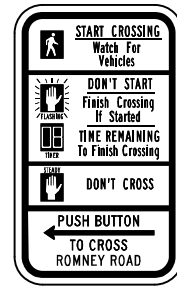
AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

DRAFT
NOT FOR
CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 283 U.S. (NIAGARA FALLS BLVD.) AND GLENALBY ROAD AND ROMNEY ROAD	CONTRACT NUMBER DRAWING NO. TSD-14 SHEET NO. 91
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

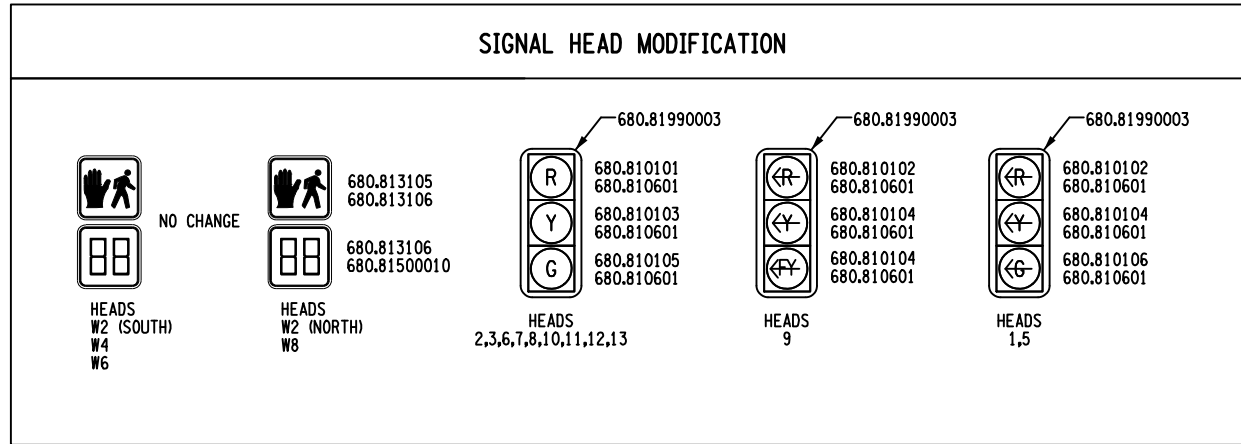
C&S Engineers, Inc.
 141 E 9th Street, Suite 100
 Buffalo, New York, 14203
 Phone: 716-847-1630
 Fax: 716-847-1454
 www.candse.com



R10-31

ARROW MAY FACE LEFT OR RIGHT, IT IS CONTRACTOR'S RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

PEDESTRIAN PUSHBUTTON SIGNS:
USE SIGN R10-31 (MUTCD).
SIZE OF SIGN SHALL BE 9" X 15".
INCLUDE TEXT AND PROPER DIRECTIONAL ARROWS:
"ROMNEY ROAD" FOR W2 (2)
"NIAGARA FALLS BLVD" FOR W4 (2) AND W8 (2)
"GLENALBY ROAD" FOR W6 (2)



TRAFFIC SIGNAL MODIFY AND REMOVAL NOTES:

ITEM 680.79003005 - REMOVE TRAFFIC SIGNAL INSTALLATION, US 62 AND ROMNEY/GLENALBY ROAD LOCATION SHALL INCLUDE THE FOLLOWING:

SW & NE QUADRANT: REMOVAL OF EXISTING TRAFFIC SIGNAL POLES, SPAN WIRES, SIGNAL SECTIONS, AND WIRING. RELOCATE EXISTING STREET SIGNS IN NE QUADRANT TO NEW TRAFFIC SIGNAL MAST ARM POLE. EXISTING CONTROLLER ATTACHED TO THE TRAFFIC SIGNAL POLE TO BE SALVAGED AND STORED FOR PICKUP BY NYS DOT TRAFFIC FORCES.

NE QUADRANT: REMOVAL OF EXISTING PEDESTRIAN SIGNAL POLE, INCLUDING PEDESTRIAN SECTIONS, BUTTON, SIGN AND WIRING.

NW, SW & SE QUADRANT: REMOVAL OF EXISTING PUSH BUTTONS AND SIGNS ON EXISTING PEDESTRIAN POLES WHERE THERE IS APS BUTTON REPLACEMENT. IF NEW APS PUSH BUTTON REQUIRES NEW HOLES TO BE DRILLED IN POLE, EXISTING HOLES SHALL BE COVERED WITH A PLATE AND FASTENERS, COST INCLUDED UNDER THIS ITEM.

SW QUADRANT: REMOVAL OF EXISTING PULLBOX AND ABANDON EXISTING WIRES AND CONDUIT.

ITEM 680.77003005: MODIFY TRAFFIC SIGNAL INSTALLATION - US 62 AND ROMNEY/GLENALBY ROAD LOCATION SHALL INCLUDE THE FOLLOWING:

NE QUADRANT: REMOVAL OF EXISTING PEDESTRIAN POST TOP MOUNT ASSEMBLY AND BI-MODAL INDICATIONS. ADD NEW HAND/MAN AND COUNTDOWN TIMER INDICATION ASSEMBLY AND RE-INSTALL EXISTING BI-MODAL INDICATION TO NEW BI-DIRECTIONAL POST TOP MOUNT ASSEMBLY ON EXISTING POLE.

NW, SW & SE QUADRANTS: INSTALL NEW PULLBOX OVER EXISTING CONDUIT. REMOVE EXISTING WIRING AT NEW PULLBOX INSTALLATION. MODIFY EXISTING CONDUIT TO ATTACH TO THE NEW PULLBOX. PLACE NEW WIRING IN EXISTING CONDUIT LEADING TO EXISTING PEDESTRIAN TRAFFIC POLES BEING RETAINED.

ELECTRICAL SPECIALTY WORK NOTES:

ITEM 690.11000305- SPECIALTY WORK (ELECTRICAL), (EXTRA WORK FOR OH ELECTRIC FROM POWER SOURCE, DOWN TO CONTROLLER) SHALL INCLUDE THE FOLLOWING:

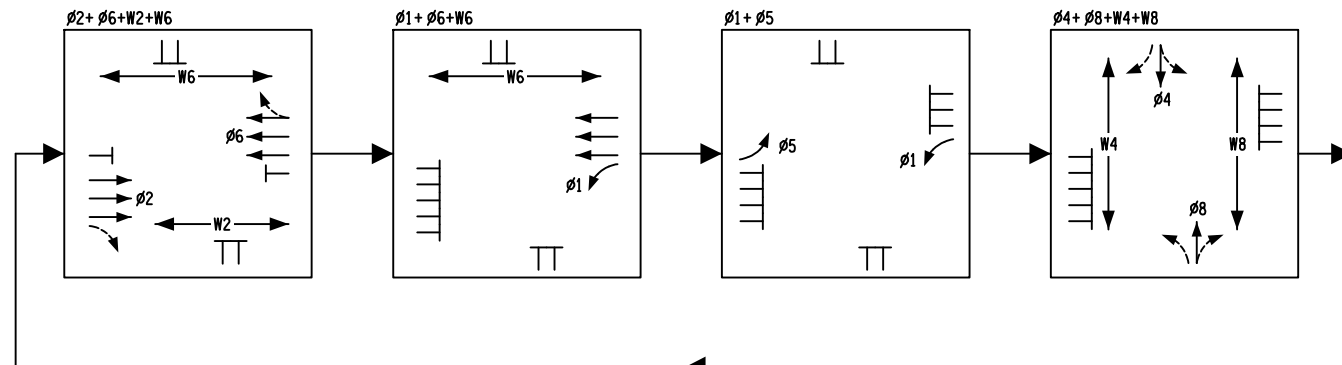
SW QUADRANT: REMOVE EXISTING POWER CABLE FROM CONNECTION TO POWER SOURCE AT THE POLE TO THE CONTROLLER, AND ANY CABLE CONNECTION WORK AT THE POWER SOURCE AND THE CONTROLLER. ALSO INCLUDES ANY INCIDENTAL WORK AND MATERIALS THAT ARE REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION OF THE ELECTRIC METER UNDER ITEM 680.95600004.

WIRING NOTES:

1. PEDESTRIAN SIGNAL CABLES SHALL BE CONNECTED TO AVAILABLE SWITCH PACK TERMINALS WITHIN THE CONTROLLER CABINET AND COORDINATED WITH THE APPROPRIATE VEHICULAR PHASE.

NOTES:

1. UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON, A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" WITH COUNTDOWN TIMER INDICATION, FOLLOWED BY A STEADY "HAND" INDICATION WILL BE DISPLAYED.
2. UNDER ITEM 680.80324515, NYS DOT WILL SUPPLY THE SIGNAL CONTROLLER, CABINET AND CABINET BASE. THE CONTRACTOR SHALL INSTALL THE CABINET. NYS DOT WILL INSTALL THE CONTROLLER, PERIPHERAL EQUIPMENT, AND SOFTWARE. CONTACT MARK SORGI OR JOHN RYAN AT 716-649-1426 AT LEAST 3 DAYS IN ADVANCE TO COORDINATE.



- ø1 SB - SB LEFT (US 62)
- ø2 NB - NB THROUGH / RIGHT (US 62)
- ø4 EB - EB LEFT / THROUGH / RIGHT (GLENALBY ROAD)
- ø5 NB - NB LEFT (US 62)
- ø6 SB - SB STRAIGHT / RIGHT (US 62)
- ø8 WB - WB LEFT / STRAIGHT / RIGHT (ROMNEY ROAD)
- W2 - WB APPROACH CROSSING
- W4 - NB APPROACH CROSSING
- W6 - EB APPROACH CROSSING
- W8 - SB APPROACH CROSSING

PHASING SEQUENCE

AFFIX SEAL: ON:	ALTERED BY: ON:
DRAFT NOT FOR CONSTRUCTION	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 283 U.S. (NIAGARA FALLS BLVD.) AND GLENALBY ROAD AND ROMNEY ROAD	CONTRACT NUMBER DRAWING NO. TSD-15 SHEET NO. 92
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

FILE NAME = **SYTIME**
 DATE/TIME = DGN**SYTIME0123456
 USER = DGN**USERNAME
 DESIGN SUPERVISOR = J. MORRISSEY
 JOB MANAGER = S. GEORGE
 DESIGN = J. DEORDIO
 CHECK = D. STANSBURY
 DRAFTING = K. McARDLELL
 CHECK = D. STANSBURY
 PROJECT MANAGER = D. BORCZ

FILE NAME = **SYTIME**
 DATE/TIME = DGN#SYTIME0123456
 USER = DGN#USERNAME
 DESIGN SUPERVISOR J. MORRISSEY
 JOB MANAGER S. GEORGE
 DESIGN J. DEORDIO
 CHECK D. STANSBURY
 DRAFTING K. McARDELL
 CHECK D. STANSBURY
 PROJECT MANAGER D. BORCZ

OPERATIONS SCHEDULE																		
PHASE	FACE	SB				NB				WB			EB		PEDESTRIAN HEADS			
		1	2	3	4	5	6	7	8	9	10	11	12	13	W2	W4	W6	W8
Ø2 + Ø6 + W2 + W6	←R	G	G	G	←R	G	G	G	←R	R	R	R	R	W/FDW	DW	W/FDW	DW	
(Ø2 + Ø6) YELLOW CLEAR	←R	Y	Y	Y	←R	Y	Y	Y	←R	R	R	R	R	DW	DW	DW	DW	
(Ø2 + Ø6) RED CLEAR	←R	R	R	R	←R	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
THEN																		
Ø1 + Ø6 + W6	←G	G	G	G	←R	R	R	R	←R	R	R	R	R	DW	DW	W/FDW	DW	
(Ø1 + Ø6) YELLOW CLEAR	←Y	Y	Y	Y	←R	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
(Ø1 + Ø6) RED CLEAR	←R	R	R	R	←R	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
THEN																		
Ø1 + Ø5	←G	R	R	R	←G	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
(Ø1 + Ø5) YELLOW CLEAR	←Y	R	R	R	←Y	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
(Ø1 + Ø5) RED CLEAR	←R	R	R	R	←R	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
THEN																		
Ø4 + Ø8 + W4 + W8	←R	R	R	R	←R	R	R	R	←FY	G	G	G	G	DW	W/FDW	DW	W/FDW	
(Ø4 + Ø8) YELLOW CLEAR	←R	R	R	R	←R	R	R	R	←Y	Y	Y	Y	Y	DW	DW	DW	DW	
(Ø4 + Ø8) RED CLEAR	←R	R	R	R	←R	R	R	R	←R	R	R	R	R	DW	DW	DW	DW	
EMERGENCY FLASH	R	R	R	R	R	R	R	R	R	R	R	R	R	DARK	DARK	DARK	DARK	

- LEGEND**
- G - CIRCULAR GREEN
 - ←G - LEFT ARROW GREEN
 - G - RIGHT ARROW GREEN
 - R - CIRCULAR RED
 - ←R - LEFT ARROW RED
 - R - RIGHT ARROW RED
 - Y - CIRCULAR YELLOW
 - ←Y - LEFT ARROW YELLOW
 - Y - RIGHT ARROW YELLOW
 - ←FY - LEFT ARROW FLASHING YELLOW
 - FY - RIGHT ARROW FLASHING YELLOW
 - FR - FLASHING RED
 - FDW - FLASHING HAND (DON'T WALK)
 - DW - HAND (DON'T WALK)
 - W - MAN (WALK)

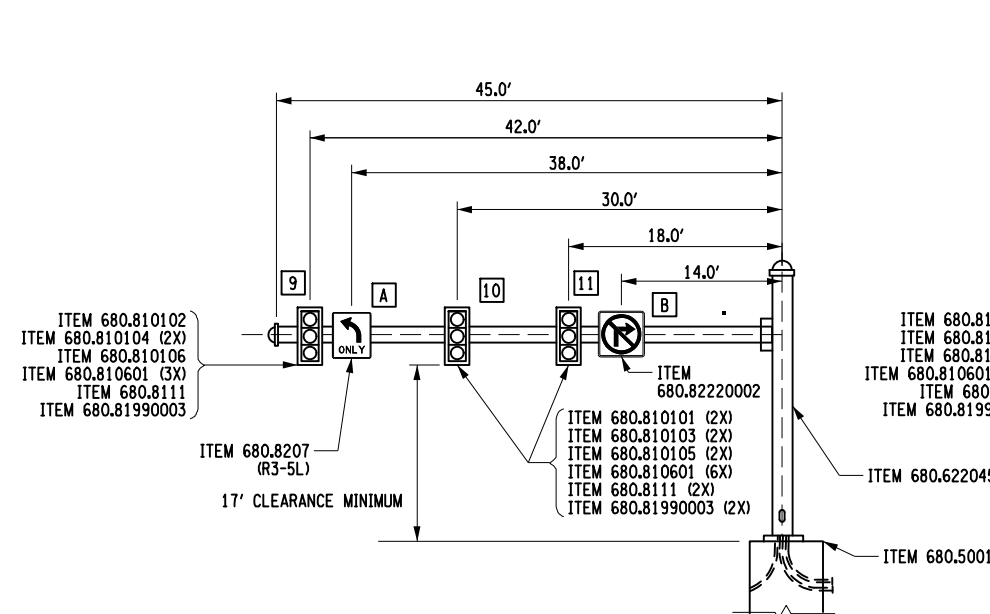
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DRAFT NOT FOR CONSTRUCTION	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 283 U.S. (NIAGARA FALLS BLVD.) AND GLENALBY ROAD AND ROMNEY ROAD	CONTRACT NUMBER DRAWING NO. TSD-16 SHEET NO. 93
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

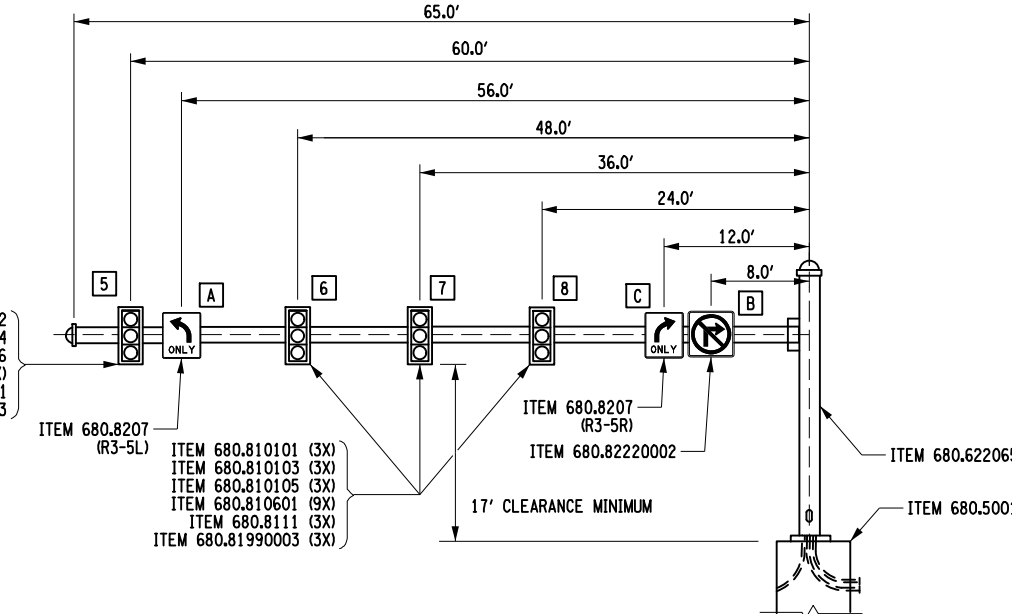


PROJECT MANAGER: D. BORCZ
 CHECK: D. STANSBURY
 DRAFTING: K. McARDLELL
 CHECK: D. STANSBURY
 DESIGN: J. DEORDIO
 DESIGN: S. GEORGE
 JOB MANAGER: J. MORRISSEY
 DESIGN SUPERVISOR: J. MORRISSEY



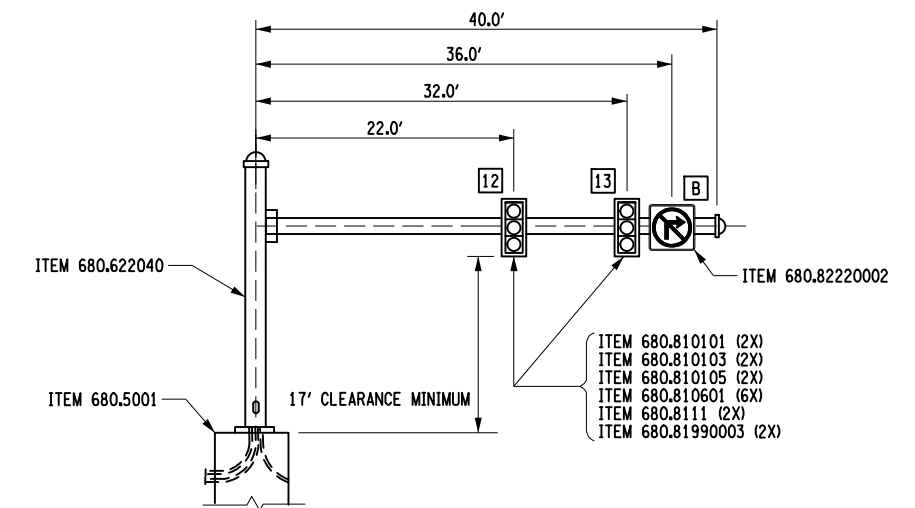
MAST ARM LAYOUT - POLE #1, ROMNEY ROAD WB APPROACH

NOT TO SCALE



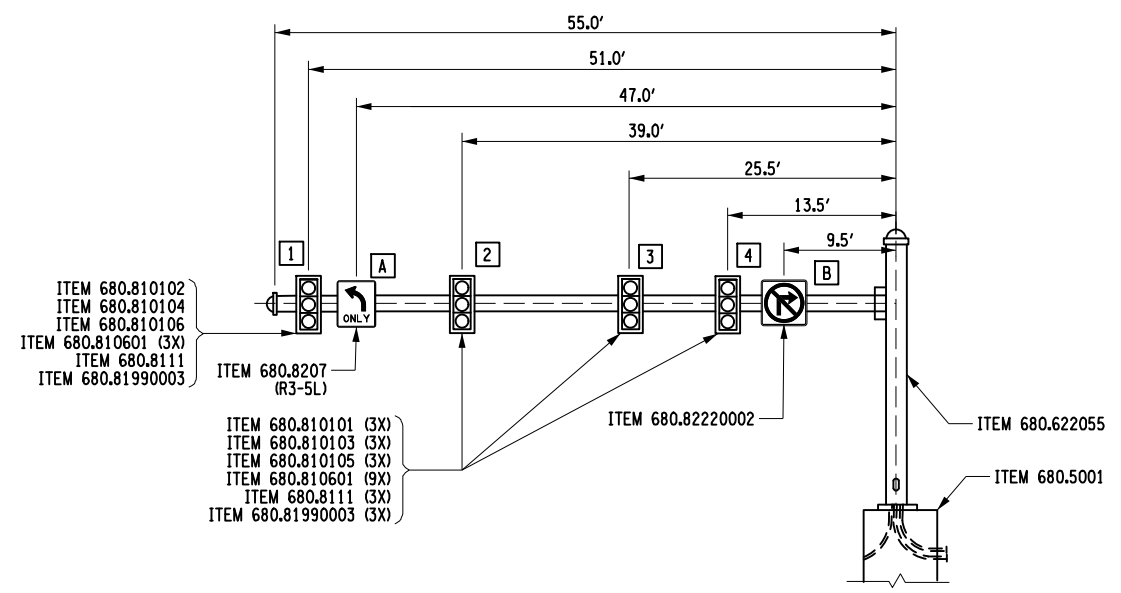
DUAL MAST ARM LAYOUT - POLE #2, US 62 (NIAGARA FALLS BOULEVARD) NB APPROACH

NOT TO SCALE



DUAL MAST ARM LAYOUT - POLE #2, GLENALBY ROAD EB APPROACH

NOT TO SCALE



MAST ARM LAYOUT - POLE #3, US 62 (NIAGARA FALLS BOULEVARD) SB APPROACH

NOT TO SCALE

TABLE OF SIGNAL POLES			
POLE NUMBER	1	2	3
MOUNTING HEIGHT (FT)	20	20	20
MAST ARM LENGTH (FT)	45	40	55
FOOTING MOMENT (FT-KIP)	115	244	133
FOUNDATION CODE	8	14	9
LIGHTING ARM MOUNTING HEIGHT (FT)	N/A	N/A	N/A
LIGHTING ARM SPAN (FT)	N/A	N/A	N/A

ALL SIGNAL POLE FOUNDATIONS SHALL BE SQUARE PER NYS DOT STANDARD DETAILS.

TABLE OF OVERHEAD SIGNS				
ITEM NUMBER	LOCATION	TEXT	MUTCD	MOUNTING
680.8207	A	ONLY 30"x36"	R3-5L	MAST ARM TYPE G
680.82220002	B	BLANKOUT SIGN 36"x36"	R3-1	MAST ARM TYPE G
680.8207	C	ONLY 30"x36"	R3-5R	MAST ARM TYPE G

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

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CONSTRUCTION

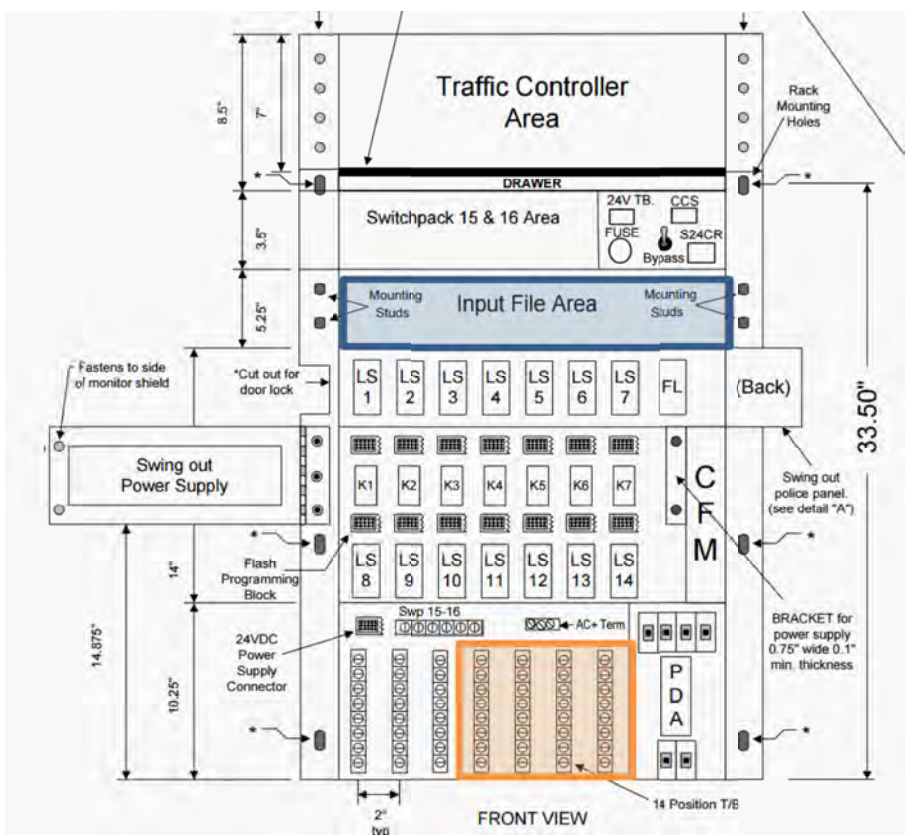
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL					DRAWING NO. TSD-17 SHEET NO. 94	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

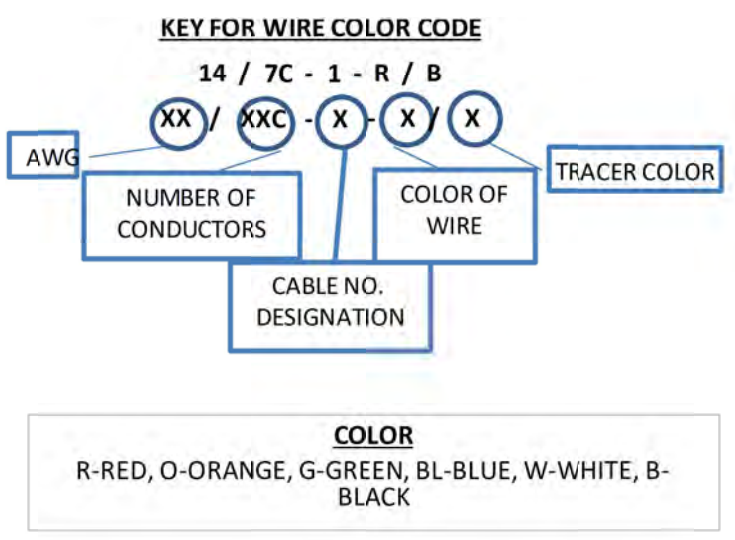
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 DATE/TIME = DGN**SYTIME**0123456
 USER = DGN**USERNAME**

FILE NAME = **SYTIME**
 DATE/TIME = DGN**SYTIME0123456
 USER = DGN**USER**

DESIGN SUPERVISOR J. MORRISSEY JOB MANAGER S. GEORGE DESIGN J. DEORDIO CHECK D. STANSBURY DRAFTING K. McARDLELL CHECK D. STANSBURY PROJECT MANAGER D. BORCZ



SIGNAL 283



SIGNAL OPERATIONS SPECIFICATIONS DATE: 2/28/2020

TABLE OF INPUT WIRING									
SIGNAL NUMBER	283		COUNTY		ERIE		INTERSECTION US 62 @ ROMNEY ROAD / GLENALBY ROAD		
INPUT FILE AREA	FUNCTION		DETECTOR LOCATION ID		TERMINAL WIRING BOARD				
SLOT	TYPE	(Φ# / PED #)	DESCRIPTION	(PER PLAN)		TERMINAL	WIRE COLOR CODE		
1 - TOP	222	Ø2	NBT US 62	2A	2B	1A	SLI-1-W		
						1B	SLI-1-B		
1 - BOTTOM	222	Ø2	NBT US 62	2C	2D	2A	SLI-2-W		
						2B	SLI-2-B		
2 - TOP	222	Ø2	NBT US 62	2E	2F	3A	SLI-3-W		
						3B	SLI-3-B		
2 - BOTTOM	222	Ø2	NBR US 62	2G	2H	4A	SLI-4-W		
						4B	SLI-4-B		
3 - TOP	222	Ø6	SBT US 62	6A	6B	5A	SLI-5-W		
						5B	SLI-5-B		
3 - BOTTOM	222	Ø6	SBT US 62	6C	6D	6A	SLI-6-W		
						6B	SLI-6-B		
4 - TOP	222	Ø6	SBT/R US 62	6E	6F	7A	SLI-7-W		
						7B	SLI-7-B		
4 - BOTTOM	222	Ø1	SBL US 62	1A	1B	8A	SLI-8-W		
						8B	SLI-8-B		
5 - TOP	222	Ø5	NBL US 62	5A	5B	9A	SLI-9-W		
						9B	SLI-9-B		
5 - BOTTOM	222	Ø4	EBT/L GLENALBY	4A	4B	10A	SLI-10-W		
						10B	SLI-10-B		
6 - TOP	222	Ø4	EBR GLENALBY	4C	4D	11A	SLI-11-W		
						11B	SLI-11-B		
6 - BOTTOM	222	Ø8	WBL ROMNEY	8A	8B	12A	SLI-12-W		
						12B	SLI-12-B		
7 - TOP	222	Ø8	WBT/R ROMNEY	8C	8D	13A	SLI-13-W		
						13B	SLI-13-B		
7 - BOTTOM	222	Ø8	WBT/R ROMNEY	8C	8D	14A			
						14B			
8 - TOP	222	Ø8	WBT/R ROMNEY	8C	8D	15A			
						15B			
8 - BOTTOM	222	Ø8	WBT/R ROMNEY	8C	8D	16A			
						16B			
9 - TOP	222	Ø8	WBT/R ROMNEY	8C	8D	17A			
						17B			
9 - BOTTOM	222	Ø8	WBT/R ROMNEY	8C	8D	18A			
						18B			
10 - TOP	222	Ø8	WBT/R ROMNEY	8C	8D	19A			
						19B			
10 - BOTTOM	222	Ø8	WBT/R ROMNEY	8C	8D	20A			
						20B			
11 - TOP	222	Ø8	WBT/R ROMNEY	8C	8D	21A			
						21B			
11 - BOTTOM	222	Ø8	WBT/R ROMNEY	8C	8D	22A			
						22B			
12 - TOP	222	Ø8	WBT/R ROMNEY	8C	8D	23A			
						23B			
12 - BOTTOM	222	Ø8	WBT/R ROMNEY	8C	8D	24A			
						24B			
13 - TOP	242	W2	APPROACH CROSSING	W2-1	W2-2	25A	14/SC-W21-O	14/SC-W22-O	
						25B	14/SC-W21-B	14/SC-W22-B	
13 - BOTTOM	242	W6	SB APPROACH CROSSING	W6-1	W6-2	26A	14/SC-W61-O	14/SC-W62-O	
						26B	14/SC-W61-B	14/SC-W62-B	
14 - TOP	242	W4	APPROACH CROSSING	W4-1	W4-2	27A	14/SC-W41-O	14/SC-W42-O	
						27B	14/SC-W41-B	14/SC-W42-B	
14 - BOTTOM	242	W8	EB APPROACH CROSSING	W8-1	W8-2	28A	14/SC-W81-O	14/SC-W82-O	
						28B	14/SC-W81-B	14/SC-W82-B	

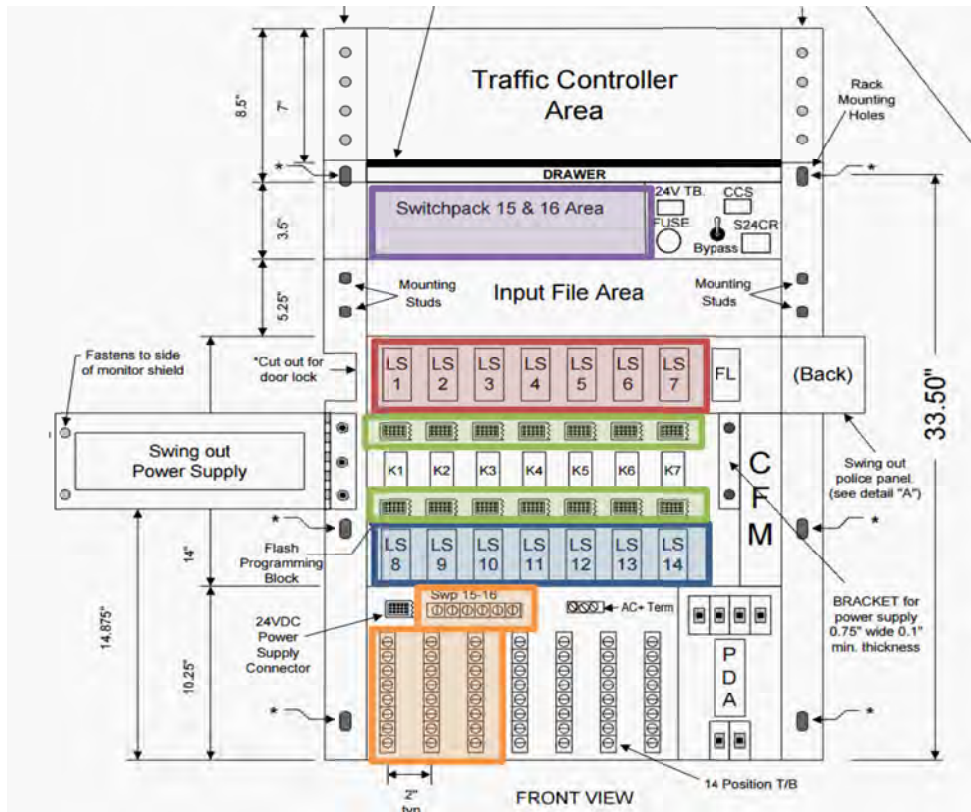
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NOT FOR
CONSTRUCTION

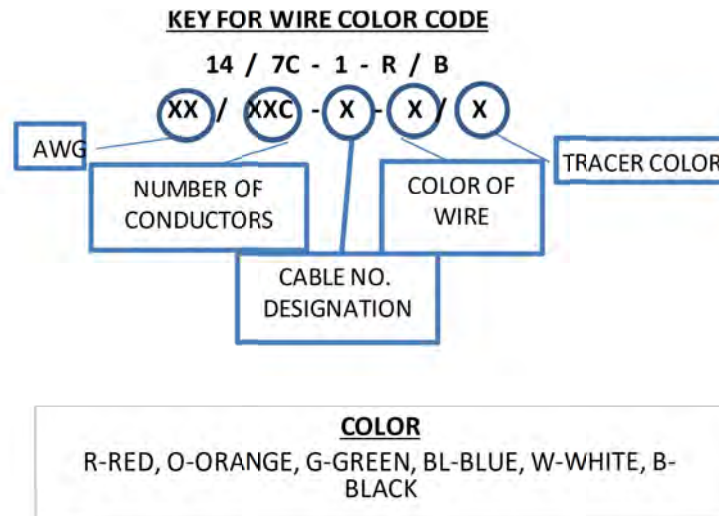
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL					SIGNAL NO. 283 U.S. (NIAGARA FALLS BLVD.) AND GLENALBY ROAD AND ROMNEY ROAD	
					DRAWING NO. TSD-18 SHEET NO. 95	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





SIGNAL 283



LEGEND

INDICATIONS					
G	= CIRCULAR GREEN	Y	= CIRCULAR YELLOW	R	= CIRCULAR RED
←G	= LEFT GREEN ARROW	←Y	= LEFT YELLOW ARROW	←R	= LEFT RED ARROW
→G	= RIGHT GREEN ARROW	→Y	= RIGHT YELLOW ARROW	→R	= RIGHT RED ARROW
↑G	= VERT. GREEN ARROW	←FY	= FLASHING YELLOW ARROW	WALK	= HAND/MAN
←G →G	= DUAL GREEN OUTPUT RT OVLP	←Y →Y	= DUAL YELLOW OUTPUT RT OVLP	DONT WALK	= FLASHING HAND/COUNT DOWN TIMER

FLASH PLUG	
W	=DARK
R	=FLASH RED
Y	=FLASH YELLOW

**SIGNAL OPERATIONS SPECIFICATIONS
TABLE OF SWITCH PACKS**

DATE: 2/28/2020

SIGNAL NUMBER	283	COUNTY	ERIE	INTERSECTION	US 62 @ ROMNEY ROAD/GLENALBY ROAD	
					TERMINAL	WIRE COLOR CODE PER FACE
SP 1	Φ1 SBL US 62	1	R	←R	SP 1R	14/SC-1-R
				←Y	SP 1Y	14/SC-1-O
				←G	SP 1G	14/SC-1-G
				GND. BUS	14/SC-1-W	
SP 2	Φ2 NBT/R US 62	6 7 8	R	R	SP 2R	14/SC-6-R 14/SC-7-R 14/SC-8-R
				Y	SP 2Y	14/SC-6-O 14/SC-7-O 14/SC-8-O
				G	SP 2G	14/SC-6-G 14/SC-7-G 14/SC-8-G
				GND. WIRE	GND. BUS	14/SC-6-W 14/SC-7-W 14/SC-8-W
SP 3	Φ3 NBL US 62	5	R	SP 3R		
				SP 3Y		
				SP 3G		
				GND. WIRE	GND. BUS	
SP 4	Φ4 EBL/T/R GLENALBY	12 13	R	R	SP 4R	14/SC-12-R 14/SC-13-R
				Y	SP 4Y	14/SC-12-O 14/SC-13-O
				G	SP 4G	14/SC-12-G 14/SC-13-G
				GND. WIRE	GND. BUS	14/SC-12-W 14/SC-13-W
SP 5	Φ5 NBL US 62	5	R	←R	SP 5R	14/SC-5-R
				←Y	SP 5Y	14/SC-5-O
				←G	SP 5G	14/SC-5-G
				GND. WIRE	GND. BUS	14/SC-5-W
SP 6	Φ6 SBL/R US 62	2 3 4	R	R	SP 6R	14/SC-2-R 14/SC-3-R 14/SC-4-R
				Y	SP 6Y	14/SC-2-O 14/SC-3-O 14/SC-4-O
				G	SP 6G	14/SC-2-G 14/SC-3-G 14/SC-4-G
				GND. WIRE	GND. BUS	14/SC-2-W 14/SC-3-W 14/SC-4-W
SP 7	Φ7 WBL ROMNEY	9	R	SP 7R		
				SP 7Y		
				SP 7G		
				GND. WIRE	GND. BUS	
SP 8	Φ8 WBT/R ROMNEY	10 11	R	R	SP 8R	14/SC-10-R 14/SC-11-R
				Y	SP 8Y	14/SC-10-O 14/SC-11-O
				G	SP 8G	14/SC-10-G 14/SC-11-G
				GND. WIRE	GND. BUS	14/SC-10-W 14/SC-11-W
SP 9	Φ9 WBL ROMNEY	9	R	←R	SP 9R	14/SC-9-R
				←Y	SP 9Y	14/SC-9-O
				←FY	SP 9G	14/SC-9-G
				GND. WIRE	GND. BUS	14/SC-9-W
SP 10	Φ10 WBL ROMNEY	9	R	SP 10R		
				SP 10Y		
				SP 10G		
				GND. WIRE	GND. BUS	
SP 11	Φ11 WBL ROMNEY	9	R	SP 11R		
				SP 11Y		
				SP 11G		
				GND. WIRE	GND. BUS	
SP 12	Φ12 WBL ROMNEY	9	R	SP 12R		
				SP 12Y		
				SP 12G		
				GND. WIRE	GND. BUS	
SP 13	W2 NB ROMNEY APPROACH CROSSING	W2-1 W2-2	W	WALK	SP 13R	14/SC-14-R 14/SC-15-R
				DON'T WALK	SP 13G	14/SC-14-G 14/SC-15-G
				GND. WIRE	GND. BUS	14/SC-14-W 14/SC-15-W
				SP 14R	14/SC-16-R 14/SC-17-R	
SP 14	W4 EB US 62 APPROACH CROSSING	W4-1 W4-2	W	WALK	SP 14R	14/SC-16-R 14/SC-17-R
				DON'T WALK	SP 14G	14/SC-16-G 14/SC-17-G
				GND. WIRE	GND. BUS	14/SC-16-W 14/SC-17-W
				SP 15R	14/SC-18-R 14/SC-19-R	
SP 15	W6 SB GLENALBY APPROACH CROSSING	W6-1 W6-2	W	WALK	SP 15R	14/SC-18-R 14/SC-19-R
				DON'T WALK	SP 15G	14/SC-18-G 14/SC-19-G
				GND. WIRE	GND. BUS	14/SC-18-W 14/SC-19-W
				SP 16R	14/SC-20-R 14/SC-21-R	
SP 16	W8 WB US 62 APPROACH CROSSING	W8-1 W8-2	W	WALK	SP 16R	14/SC-20-R 14/SC-21-R
				DON'T WALK	SP 16G	14/SC-20-G 14/SC-21-G
				GND. WIRE	GND. BUS	14/SC-20-W 14/SC-21-W
				SP 16Y		

AFFIX SEAL: ON: _____

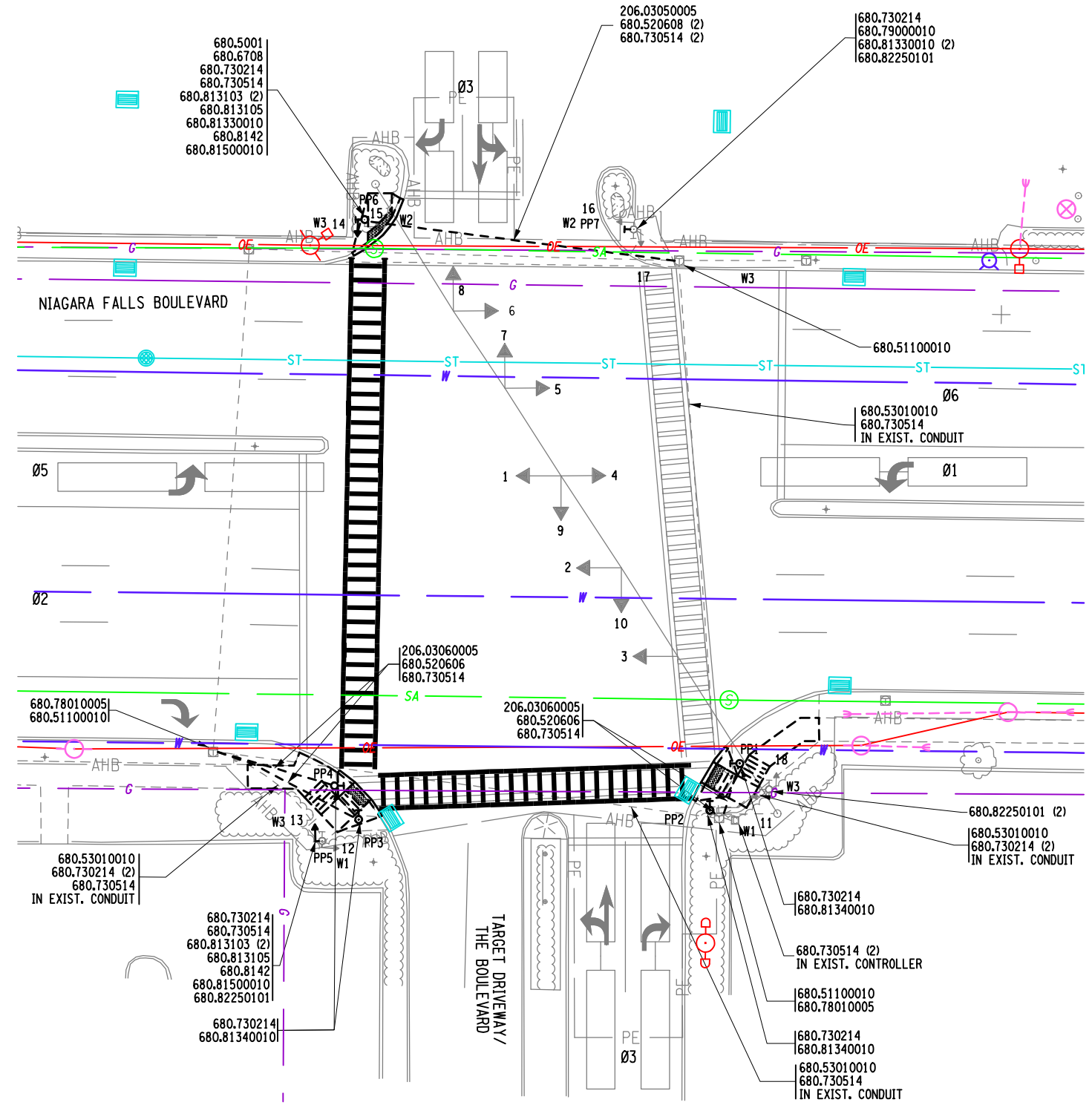
ALTERED BY: ON: _____

DRAFT
NOT FOR
CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL						DRAWING NO. TSD-19 SHEET NO. 96
SIGNAL NO. 283 U.S. (NIAGARA FALLS BLVD.) AND GLENALBY ROAD AND ROMNEY ROAD						

FILE NAME = SSSI17121_cp_rfsp_1.dgn
 DATE/TIME = 3/5/2020
 USER = Aguglielmi

PROJECT MANAGER W. HOLSBERGER
 CHECK A. GUGLIELMI
 DRAFTING J. DONNAN
 CHECK M. KENNEDY
 DESIGN R. WINTER
 JOB MANAGER R. WINTER
 DESIGN SUPERVISOR W. HOLSBERGER

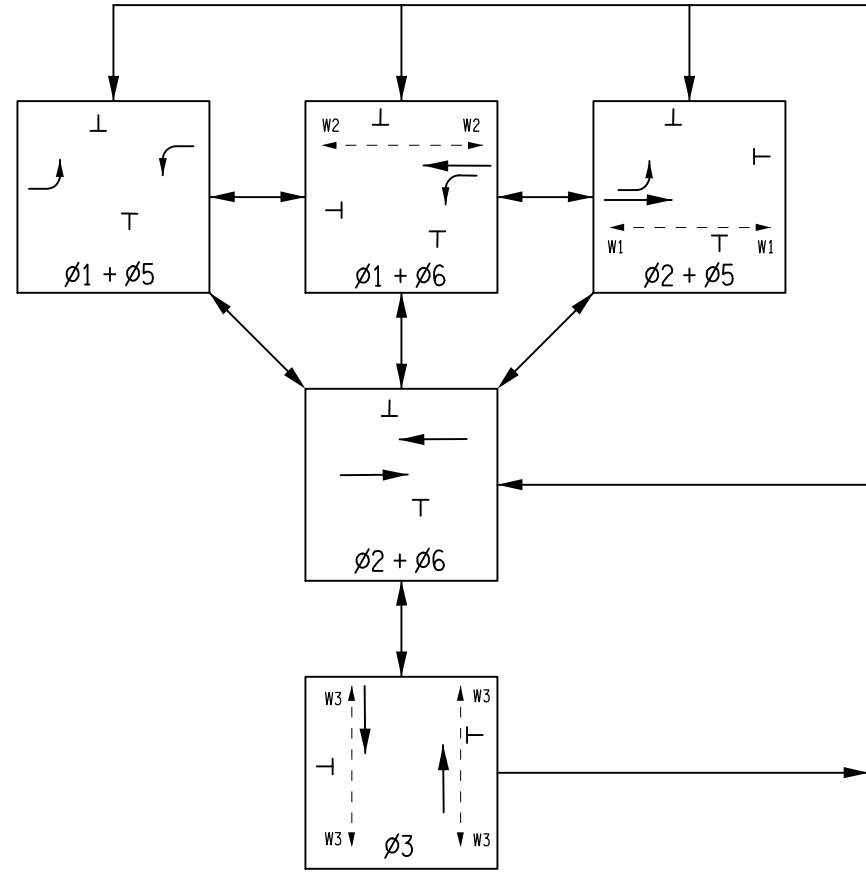


PHASE	FACE													
	1	2	3	4	5	6	7	8	9	10	11,12	13,14	15,16	17,18
Ø1	R	R	R	G	R	R	R	R	R	R	DW	DW	DW	DW
Ø5	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
Ø1 + Ø5	G	R	R	G	R	R	R	R	R	R	DW	DW	DW	DW
Ø2	R	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW
Ø2 + Ø5	G	G	G	R	R	R	R	R	R	R	W/FDW	DW	DW	DW
Ø6	R	R	R	R	G	G	R	R	R	R	DW	DW	DW	DW
Ø1 + Ø6	R	R	R	G	G	G	R	R	R	R	DW	DW	W/FDW	DW
Ø2 + Ø6	R	G	G	R	G	G	R	R	R	R	DW	DW	DW	DW
Ø3	R	R	R	R	R	R	G	G	G	G	DW	W/FDW	DW	W/FDW
FLASHING OPERATION	FY	FY	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK	DARK	DARK

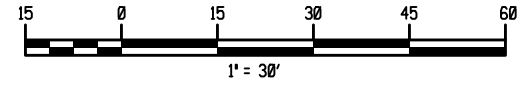
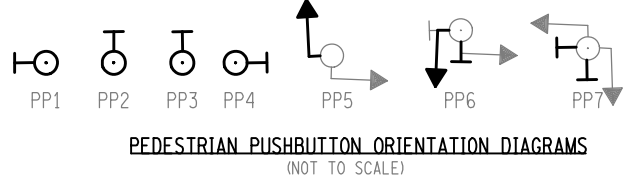
12 IN DIAMETER LENSES	DISPLAY													
	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)	(Symbol)

SIGNAL #554P
 NIAGARA FALLS BOULEVARD AT
 CONSUMER SQUARE

TO	FROM			
	R	G	-G G	-G R
R	R	Y	-Y Y	-Y R
G	R	R	-R R	-R R
-G G	R	G	-Y G	-Y R
	R	G	-R G	-R R
	R	-	-G G	-G R
	R	-	-G G	-G R



SEQUENCE DIAGRAM



AFFIX SEAL: RYAN M. WINTER, P.E.
 ON: _____
 ALTERED BY:
 ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
	U.S. 62 & NY 950K
	FROM KENMORE AVENUE TO ADMIRALS WALK
	TOWNS OF AMHERST & TONAWANDA
	COUNTY: ERIE REGION: 5

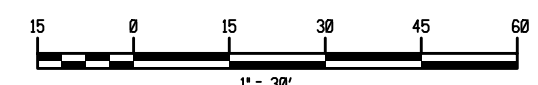
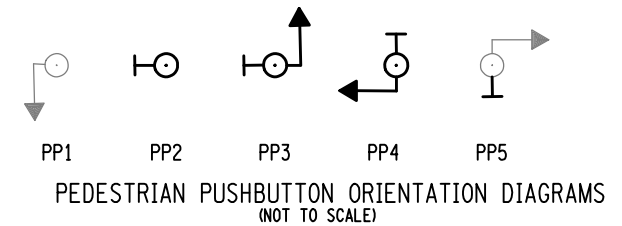
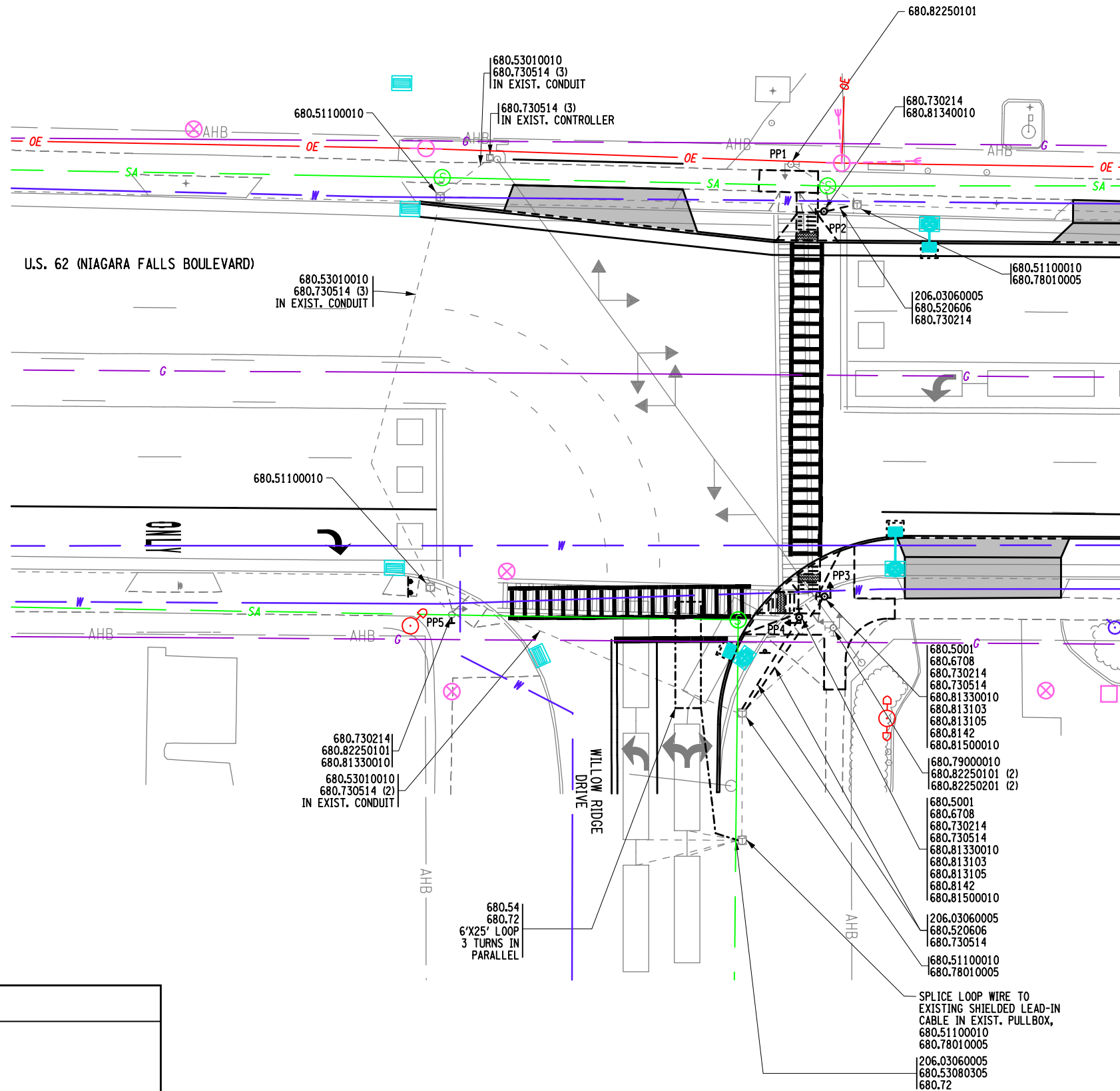
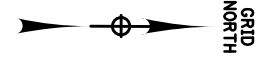
PIN 5308.38	BRIDGES
US ROUTE 62 & NY 950K	CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL	D264244
LOCATION NO. 29 U.S. 62 (NIAGARA FALLS BLVD.) AND TARGET DRIVEWAY AND THE BOULEVARD	DRAWING NO. TSD-06 SHEET NO. 97

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



SIGNAL #283
 NIAGARA FALLS BOULEVARD
 AT WILLOW RIDGE



AFFIX SEAL: RYAN M. WINTER, P.E. ON:	ALTERED BY: ON:
---	--------------------

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
	U.S. 62 & NY 950K
	FROM KENMORE AVENUE TO ADMIRALS WALK
	TOWNS OF AMHERST & TONAWANDA
	COUNTY: ERIE REGION: 5

PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS
--------------------------------------	---------	----------

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244
TRAFFIC SIGNAL DETAIL	DRAWING NO. TSD-20
LOCATION NO. 41 U.S. 62 (NIAGARA FALLS BLVD.) AND WILLOW RIDGE DRIVE	SHEET NO. 98

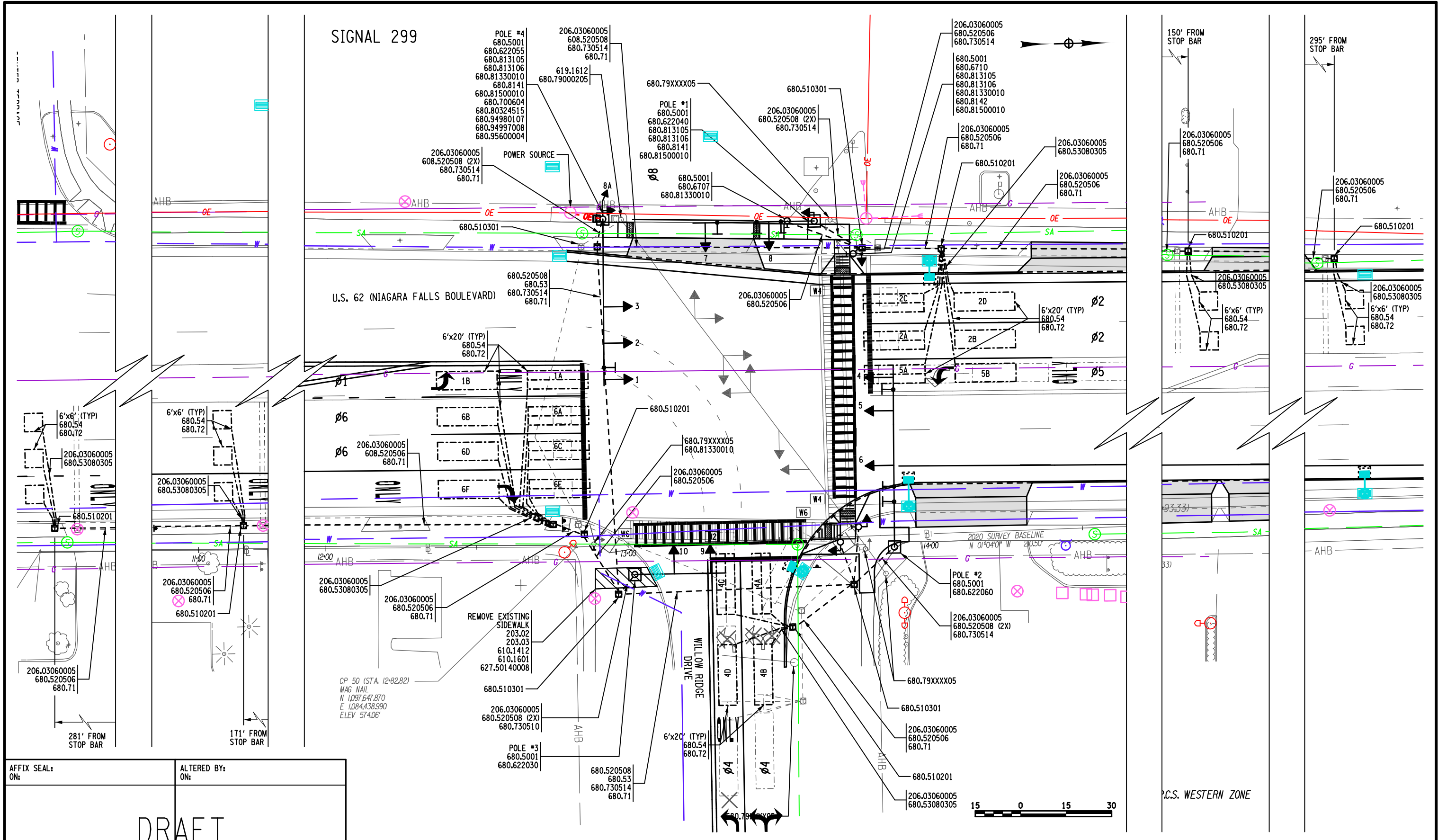
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PROJECT MANAGER W. HOLSBERGER
 CHECK A. GUGLIEMI
 DRAFTING J. DONNAN
 CHECK M. KENNEDY
 DESIGN R. WINTER
 JOB MANAGER R. WINTER
 DESIGN SUPERVISOR W. HOLSBERGER
 FILE NAME = S5517121_cp_tsp_2.dgn
 DATE/TIME = 3/5/2020
 USER = Agugliemi

FILE NAME = F:\Project\190 - N.Y.S. DEPT OF TRANSPORTATION\190526001 PSAP R3-6\Design\Technical\WSDOT Region 5 Information\NFB Signals\Pin 5308.38\30 Scale_Sheet Files\Erie_US 62 @ Willow Ridge.dgn
 DATE/TIME = 3/4/2020
 USER = abrownell

DESIGN SUPERVISOR J. MORRISSEY JOB MANAGER S. GEORGE DESIGN J. DEORDIO CHECK D. STANSBURY DRAFTING K. McARDLELL CHECK D. STANSBURY PROJECT MANAGER D. BORCZ



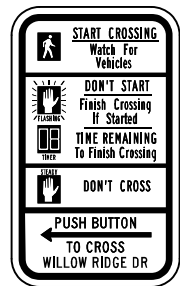
AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

DRAFT
NOT FOR
CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 299 U.S. (NIAGARA FALLS BLVD.) AND WILLOW RIDGE ROAD	CONTRACT NUMBER DRAWING NO. TSD-21 SHEET NO. 99
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

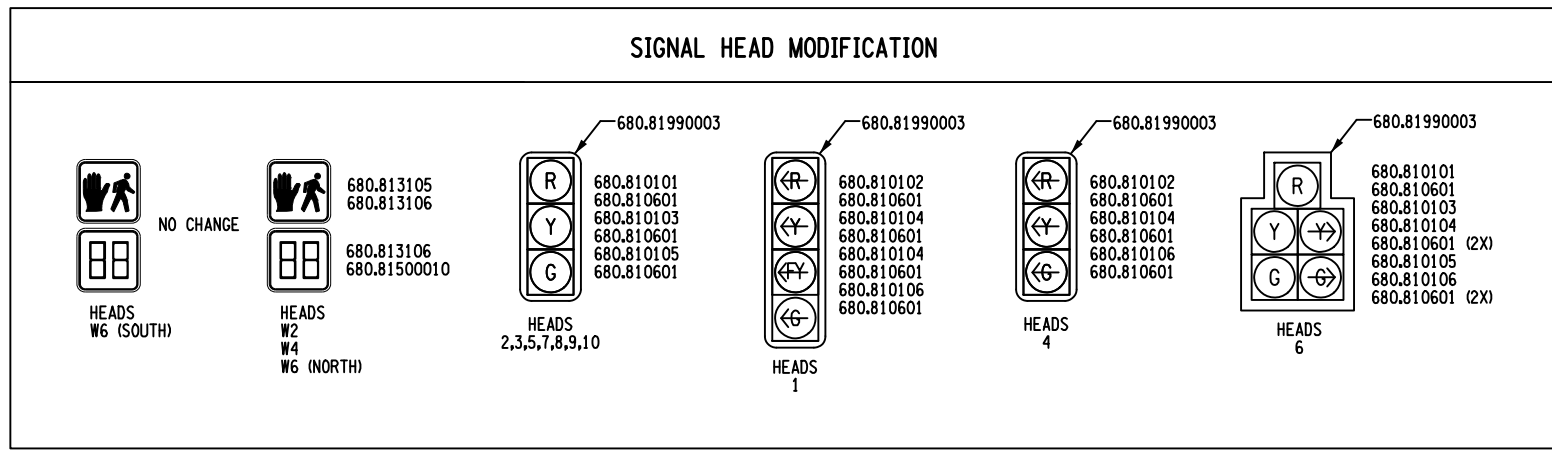




R10-3i

ARROW MAY FACE LEFT OR RIGHT, IT IS CONTRACTOR'S RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

PEDESTRIAN PUSHBUTTON SIGNS:
 USE SIGN R10-3i (MUTCD).
 SIZE OF SIGN SHALL BE 9" X 15".
 INCLUDE TEXT AND PROPER DIRECTIONAL ARROWS:
 "DRIVEWAY" FOR W2 (2)
 "NIAGARA FALLS BLVD." FOR W4 (2)
 "WILLOW RIDGE DRIVE" FOR W6 (2)



TRAFFIC SIGNAL MODIFY AND REMOVAL NOTES:

ITEM 680.79000205 REMOVE TRAFFIC SIGNAL INSTALLATION - US 62 AND WILLOW RIDGE DRIVE LOCATION SHALL INCLUDE THE FOLLOWING:

SW & NE QUADRANT: REMOVAL OF EXISTING TRAFFIC SIGNAL POLES, SPAN WIRES, SIGNAL SECTIONS, AND WIRING. RELOCATE EXISTING STREET SIGNS IN NE QUADRANT TO NEW TRAFFIC SIGNAL MAST ARM POLE. EXISTING CONTROLLER TO BE SALVAGED AND STORED FOR PICKUP BY NYSOT TRAFFIC FORCES.

NE & NW QUADRANT: REMOVAL OF EXISTING PEDESTRIAN POLE, INCLUDING PEDESTRIAN SECTION, BUTTON, SIGN AND WIRING.

SE QUADRANT: REMOVAL OF EXISTING PUSH BUTTONS AND SIGNS ON EXISTING PEDESTRIAN POLES WHERE THERE IS APS BUTTON REPLACEMENT. IF NEW APS PUSH BUTTON REQUIRES NEW HOLES TO BE DRILLED IN POLE, EXISTING HOLES SHALL BE COVERED WITH A PLATE AND FASTENERS, COST INCLUDED UNDER THIS ITEM. EXISTING PUSH BUTTON INPUT WIRING SHALL BE RE-USED FOR NEW APS PUSH BUTTONS AT THE EXISTING PEDESTRIAN POLES.

NE QUADRANT: REMOVAL OF EXISTING MAST ARM POLE AND OVERHEAD SIGNS. RELOCATE EXISTING PARKING SIGNS TO NEW SIGN POST.

ELECTRICAL SPECIALTY WORK NOTES:

ITEM 690.11000205- SPECIALTY WORK (ELECTRICAL), (EXTRA WORK FOR OH ELECTRIC FROM POWER SOURCE, DOWN TO CONTROLLER) SHALL INCLUDE THE FOLLOWING:

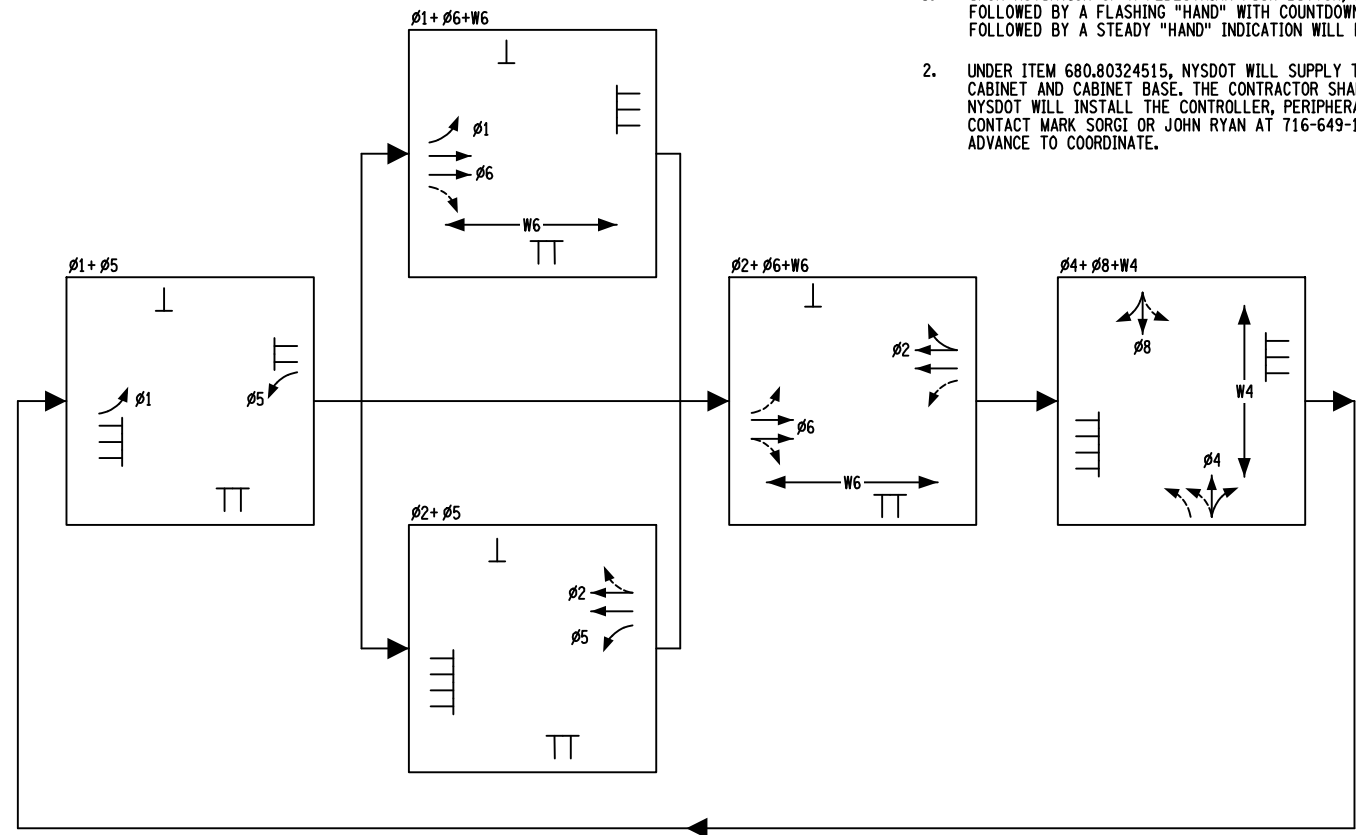
SW QUADRANT: REMOVE EXISTING POWER CABLE FROM CONNECTION TO POWER SOURCE AT THE POLE TO THE CONTROLLER. INSTALL HANDHOLE ON POLE TO SPLICE INTO EXISTING CONDUIT (IF ANY) INSIDE THE POLE NEAR THE PROPOSED ELECTRIC METER AND DISCONNECT SWITCH, AND ANY CABLE CONNECTION WORK AT THE POWER SOURCE AND THE CONTROLLER. ALSO INCLUDES ANY INCIDENTAL WORK AND MATERIALS THAT ARE REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION OF THE ELECTRIC METER UNDER ITEM 680.95600004.

WIRING NOTES:

1. PEDESTRIAN SIGNAL CABLES SHALL BE CONNECTED TO AVAILABLE SWITCH PACK TERMINALS WITHIN THE CONTROLLER CABINET AND COORDINATED WITH THE APPROPRIATE VEHICULAR PHASE.

NOTES:

1. UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON, A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" WITH COUNTDOWN TIMER INDICATION, FOLLOWED BY A STEADY "HAND" INDICATION WILL BE DISPLAYED.
2. UNDER ITEM 680.80324515, NYSOT WILL SUPPLY THE SIGNAL CONTROLLER, CABINET AND CABINET BASE. THE CONTRACTOR SHALL INSTALL THE CABINET. NYSOT WILL INSTALL THE CONTROLLER, PERIPHERAL EQUIPMENT, AND SOFTWARE. CONTACT MARK SORGI OR JOHN RYAN AT 716-649-1426 AT LEAST 3 DAYS IN ADVANCE TO COORDINATE.



- ø1 SB - SB LEFT (US 62)
- ø2 SB - SB THROUGH / RIGHT (US 62)
- ø4 WB - WB LEFT / THROUGH / RIGHT (WILLOW RIDGE DRIVE)
- ø5 NB - NB LEFT (US 62)
- ø5 NB - NB THROUGH / RIGHT (US 62)
- W2 - EB APPROACH CROSSING
- W4 - SB APPROACH CROSSING
- W6 - WB APPROACH CROSSING

PHASING SEQUENCE

AFFIX SEAL: ON:	ALTERED BY: ON:
DRAFT NOT FOR CONSTRUCTION	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 299 U.S. (NIAGARA FALLS BLVD.) AND WILLOW RIDGE ROAD	CONTRACT NUMBER DRAWING NO. TSD-22 SHEET NO. 100
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

FILE NAME = **SYTIME**
 DATE/TIME = DGN**SYTIME0123456
 USER = DGN**USERNAME

DESIGN SUPERVISOR J. MORRISSEY
 DESIGN S. GEORGE
 DRAFTING K. McARDELL
 CHECK D. STANSBURY
 PROJECT MANAGER D. BORCZ

FILE NAME = **SYTIME**
 DATE/TIME = DGN**SYTIME**0123456
 USER = DGN**USER**NAME
 DESIGN SUPERVISOR J. MORRISSEY
 JOB MANAGER S. GEORGE
 DESIGN J. DEORDIO
 CHECK D. STANSBURY
 DRAFTING K. McARDELL
 CHECK D. STANSBURY
 PROJECT MANAGER D. BORCZ

OPERATIONS SCHEDULE													
PHASE	FACE	SB			NB			WB		EB		PEDESTRIAN HEADS	
		1	2	3	4	5	6	7	8	9	10	W4	W6
Ø1 + Ø5	<G	R	R	<G	R	R	R	R	R	R	R	DW	DW
(Ø1 + Ø5) YELLOW CLEAR	<Y	R	R	<Y	R	R	R	R	R	R	R	DW	DW
(Ø1 + Ø5) RED CLEAR	<R	R	R	<R	R	R	R	R	R	R	R	DW	DW
THEN													
Ø2 + Ø5	<G	G	G	<R	R	R	R	R	R	R	R	DW	DW
(Ø2 + Ø5) YELLOW CLEAR	<Y	Y	Y	<R	R	R	R	R	R	R	R	DW	DW
(Ø2 + Ø5) RED CLEAR	<R	R	R	<R	R	R	R	R	R	R	R	DW	DW
THEN													
Ø1 + Ø6 + W6	<R	R	R	<G	G	G	R	R	R	R	R	DW	W/FDW
(Ø1 + Ø6) YELLOW CLEAR	<R	R	R	<Y	Y	Y	R	R	R	R	R	DW	DW
(Ø1 + Ø6) RED CLEAR	<R	R	R	<R	R	R	R	R	R	R	R	DW	DW
THEN													
Ø2 + Ø6 + W6	<FY	G	G	<FY	G	G	R	R	R	R	R	DW	W/FDW
(Ø2 + Ø6) YELLOW CLEAR	<Y	Y	Y	<Y	Y	Y	R	R	R	R	R	DW	DW
(Ø2 + Ø6) RED CLEAR	<R	R	R	<R	R	R	R	R	R	R	R	DW	DW
THEN													
Ø4 + Ø8 + W4	<R	R	R	<R	R	R	G	G	G	G	G	W/FDW	DW
(Ø4 + Ø8) YELLOW CLEAR	<R	R	R	<R	R	R	Y	Y	Y	Y	Y	DW	DW
(Ø4 + Ø8) RED CLEAR	<R	R	R	<R	R	R	R	R	R	R	R	DW	DW
EMERGENCY FLASH		R	R	R	R	R	R	R	R	R	R	DARK	DARK

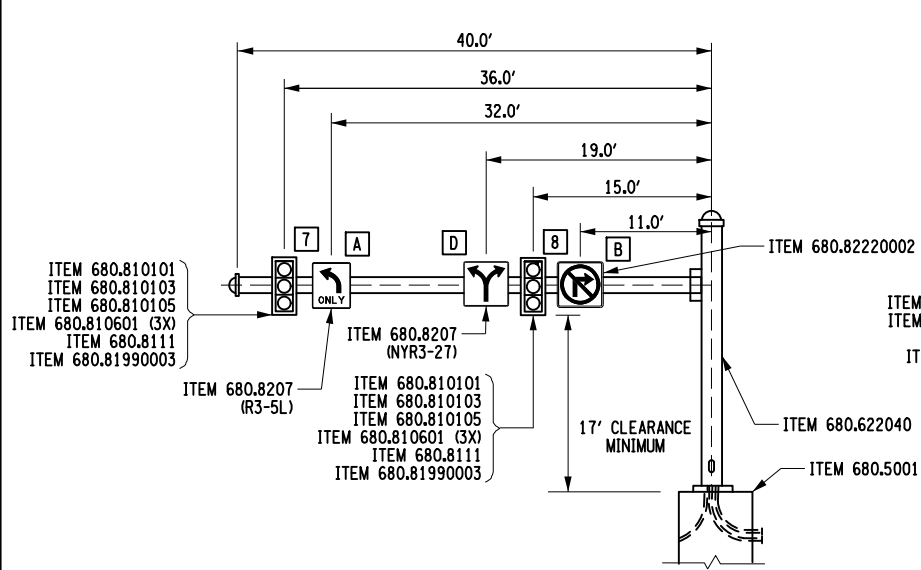
LEGEND

- G - CIRCULAR GREEN
- ←G - LEFT ARROW GREEN
- G - RIGHT ARROW GREEN
- R - CIRCULAR RED
- ←R - LEFT ARROW RED
- R - RIGHT ARROW RED
- Y - CIRCULAR YELLOW
- ←Y - LEFT ARROW YELLOW
- Y - RIGHT ARROW YELLOW
- ←FR - LEFT ARROW FLASHING YELLOW
- FR - RIGHT ARROW FLASHING YELLOW
- FR - FLASHING RED
- FDW - FLASHING HAND (DON'T WALK)
- DW - HAND (DON'T WALK)
- W - MAN (WALK)

AFFIX SEAL: ON:	ALTERED BY: ON:
DRAFT NOT FOR CONSTRUCTION	

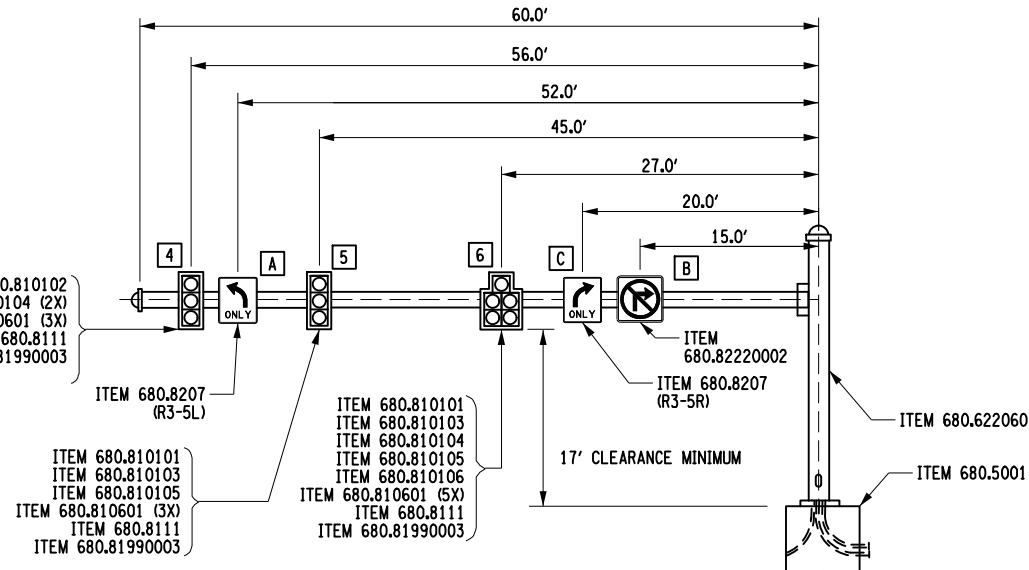
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 299 U.S. (NIAGARA FALLS BLVD.) AND WILLOW RIDGE ROAD	CONTRACT NUMBER DRAWING NO. TSD-23 SHEET NO. 101
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

PROJECT MANAGER: D. BORCZ
 CHECK: D. STANSBURY
 DRAFTING: K. McARDLELL
 CHECK: D. STANSBURY
 DESIGN: J. DEORDIO
 DESIGN: S. GEORGE
 JOB MANAGER: J. MORRISSEY
 DESIGN SUPERVISOR: J. MORRISSEY



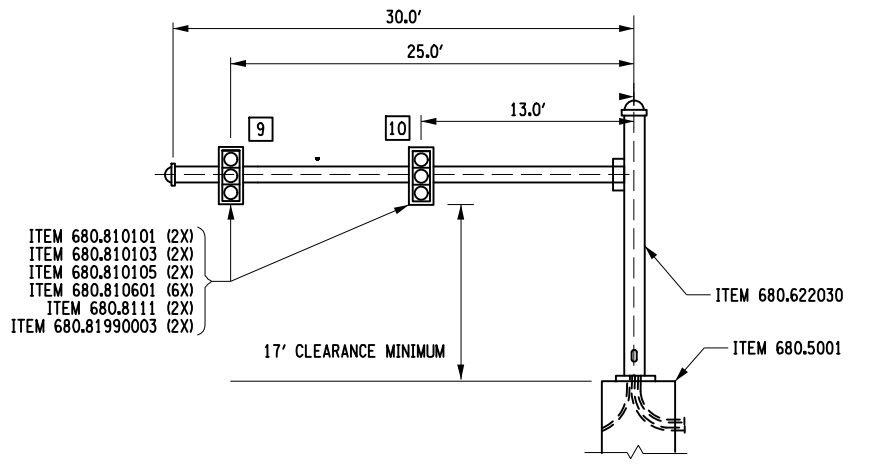
MAST ARM LAYOUT - POLE #1, WILLOW RIDGE DRIVE WB APPROACH

NOT TO SCALE



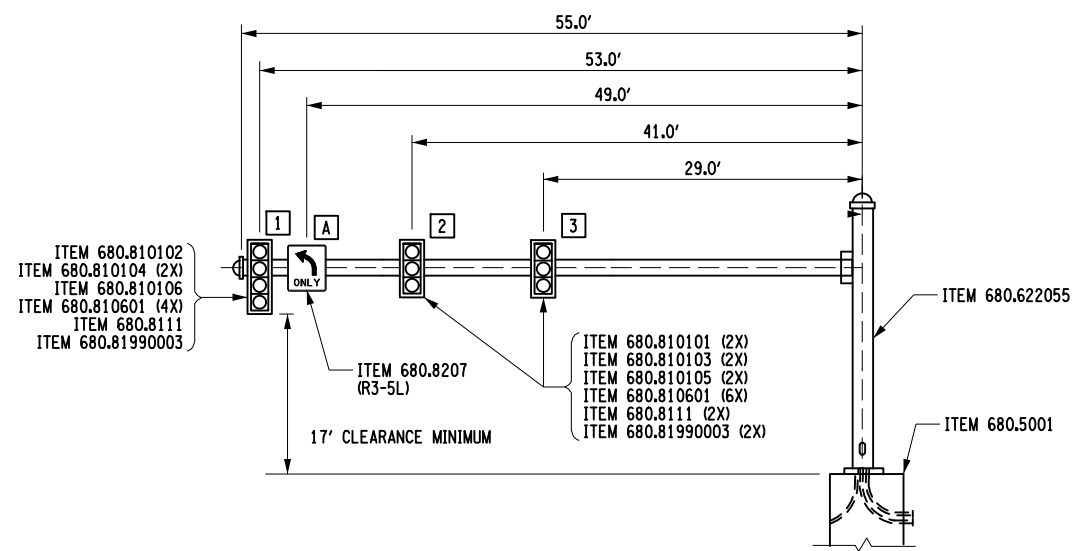
MAST ARM LAYOUT - POLE #2, US 62 (NIAGARA FALLS BOULEVARD) NB APPROACH

NOT TO SCALE



MAST ARM LAYOUT - POLE #3, WILLOW RIDGE DRIVE EB APPROACH

NOT TO SCALE



MAST ARM LAYOUT - POLE #4, US 62 (NIAGARA FALLS BOULEVARD) SB APPROACH

NOT TO SCALE

TABLE OF SIGNAL POLES				
POLE NUMBER	1	2	3	4
MOUNTING HEIGHT (FT)	20	20	20	20
MAST ARM LENGTH (FT)	40	60	30	55
FOOTING MOMENT (FT-KIP)	112	157	75	123
FOUNDATION CODE	8	10	5	9
LIGHTING ARM MOUNTING HEIGHT (FT)	N/A	N/A	N/A	N/A
LIGHTING ARM SPAN (FT)	N/A	N/A	N/A	N/A

ALL SIGNAL POLE FOUNDATIONS SHALL BE SQUARE PER NYSDOT STANDARD DETAILS.

TABLE OF OVERHEAD SIGNS				
ITEM NUMBER	LOCATION	TEXT	MUTCD	MOUNTING
680.8207	A	ONLY 30"x36"	R3-5L	MAST ARM TYPE G
680.82220002	B	BLANKOUT SIGN 36"x36"	R3-1	MAST ARM TYPE G
680.8207	C	ONLY 30"x36"	R3-5R	MAST ARM TYPE G
680.8207	D	36"x36"	NYR3-27	MAST ARM TYPE G

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

DRAFT
NOT FOR
CONSTRUCTION

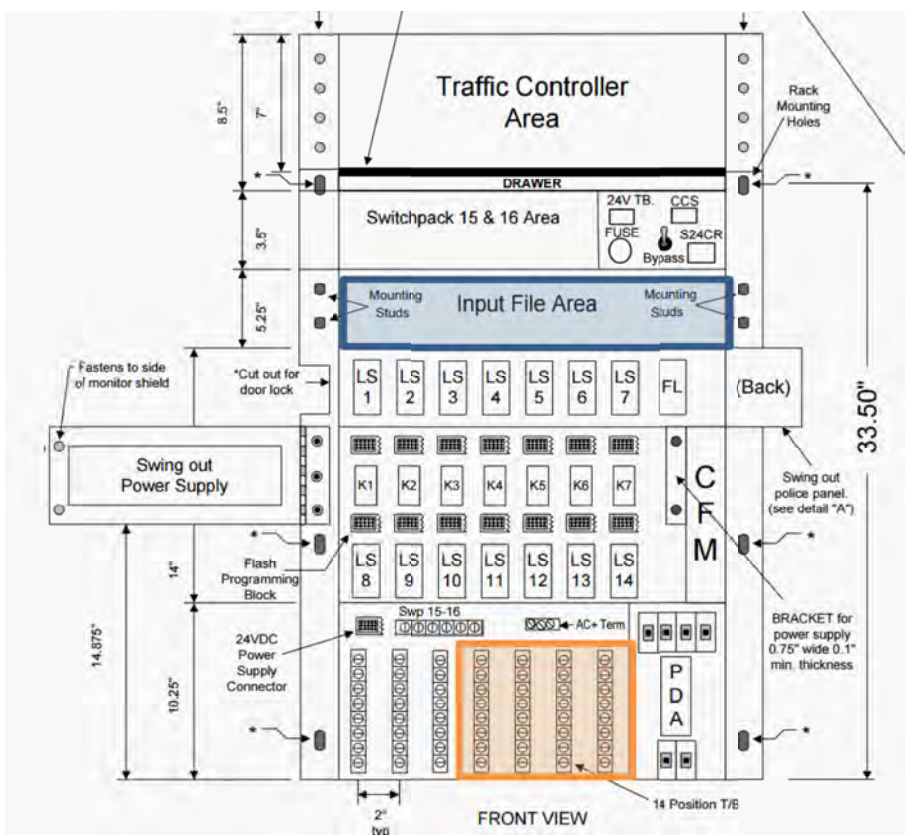
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 299 U.S. (NIAGARA FALLS BLVD.) AND WILLOW RIDGE ROAD	CONTRACT NUMBER
					DRAWING NO. TSD-24 SHEET NO. 102	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

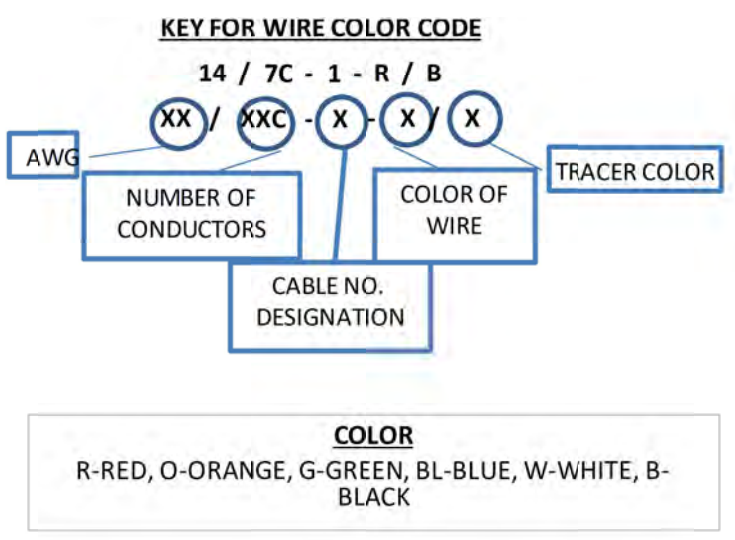
C&S Engineers, Inc.
141 Elm Street, Suite 100
Buffalo, New York, 14202
Phone: 716-847-1930
Fax: 716-847-1454
www.csis.com

Department of Transportation

FILE NAME = **SYTIME**
 DATE/TIME = DGN**SYTIME0123456
 USER = DGN**USERNAME



SIGNAL 299



SIGNAL OPERATIONS SPECIFICATIONS									
TABLE OF INPUT WIRING									
SIGNAL NUMBER	299		COUNTY		ERIE		INTERSECTION US 62 @ WILLOW RIDGE ROAD		
INPUT FILE AREA	FUNCTION		DETECTOR LOCATION ID				TERMINAL WIRING BOARD		
SLOT	TYPE	(Φ# / PED #)	DESCRIPTION		DETECTOR LOCATION ID (PER PLAN)		TERMINAL	WIRE COLOR CODE	
1 - TOP	222	Ø2	SBT US 62		2A	2B	1A	SLI-1-W	
			SBT/R US 62		2C	2D	1B	SLI-1-B	
1 - BOTTOM	222	Ø2	SBT US 62		2E		2A	SLI-2-W	
			SBT US 62		2F		2B	SLI-2-B	
2 - TOP	222	Ø2	SBT US 62		2G		3A	SLI-3-W	
			SBT US 62		2H		3B	SLI-3-B	
2 - BOTTOM	222	Ø2	SBT US 62		2I		4A	SLI-4-W	
			SBT US 62		2J		4B	SLI-4-B	
3 - TOP	222	Ø2	SBT US 62		2K		5A	SLI-5-W	
			SBT US 62		2L		5B	SLI-5-B	
3 - BOTTOM	222	Ø2	SBT US 62		2M		6A	SLI-6-W	
			SBT US 62		2N		6B	SLI-6-B	
4 - TOP	222	Ø6	NBT US 62		6A	6B	7A	SLI-7-W	
			NBT US 62		6C	6D	7B	SLI-7-B	
4 - BOTTOM	222	Ø6	NBT US 62		6E	6F	8A	SLI-8-W	
			NBT US 62		6G		8B	SLI-8-B	
5 - TOP	222	Ø6	NBR US 62		6E	6F	9A	SLI-9-W	
			NBR US 62		6G		9B	SLI-9-B	
5 - BOTTOM	222	Ø6	NBT US 62		6H		10A	SLI-10-W	
			NBT US 62		6I		10B	SLI-10-B	
6 - TOP	222	Ø6	NBT US 62		6J		11A	SLI-11-W	
			NBT US 62		6K		11B	SLI-11-B	
6 - BOTTOM	222	Ø6	NBT US 62		6L		12A	SLI-12-W	
			NBT US 62		6M		12B	SLI-12-B	
7 - TOP	222	Ø6	NBT US 62		6N		13A	SLI-13-W	
			NBT US 62		6O		13B	SLI-13-B	
7 - BOTTOM	222	Ø4	WBL/T/R W. RIDGE		4A	4B	14A	SLI-14-W	
			WBL/T/R W. RIDGE		4C	4D	14B	SLI-14-B	
8 - TOP	222	Ø4	WBL W. RIDGE		4C	4D	15A	SLI-15-W	
			WBL W. RIDGE		1A	1B	15B	SLI-15-B	
8 - BOTTOM	222	Ø1	SBL US 62		1A	1B	16A	SLI-16-W	
			SBL US 62		1C	1D	16B	SLI-16-B	
9 - TOP	222	Ø5	NBL US 62		5A	5B	17A	SLI-17-W	
			NBL US 62		5C	5D	17B	SLI-17-B	
9 - BOTTOM	222	Ø5	NBL US 62		5E	5F	18A	SLI-18-W	
			NBL US 62		5G	5H	18B	SLI-18-B	
10 - TOP	252	Ø8	EBL/T/R DRIVEWAY		8A		19A	SLI-18-W	
			EBL/T/R DRIVEWAY		8B		19B	SLI-18-B	
10 - BOTTOM	252	Ø8	EBL/T/R DRIVEWAY		8C		20A	SLI-18-W	
			EBL/T/R DRIVEWAY		8D		20B	SLI-18-B	
11 - TOP	222	Ø6	NBT US 62		6I		21A	SLI-18-W	
			NBT US 62		6J		21B	SLI-18-B	
11 - BOTTOM	222	Ø6	NBT US 62		6K		22A	SLI-18-W	
			NBT US 62		6L		22B	SLI-18-B	
12 - TOP	222	Ø6	NBT US 62		6M		23A	SLI-18-W	
			NBT US 62		6N		23B	SLI-18-B	
12 - BOTTOM	222	Ø6	NBT US 62		6O		24A	SLI-18-W	
			NBT US 62		6P		24B	SLI-18-B	
13 - TOP	222	Ø6	NBT US 62		6Q		25A	SLI-18-W	
			NBT US 62		6R		25B	SLI-18-B	
13 - BOTTOM	222	Ø6	NBT US 62		6S		26A	SLI-18-W	
			NBT US 62		6T		26B	SLI-18-B	
14 - TOP	242	W4	WB APPROACH		W4-1	W4-2	27A	14/SC-W41-O	14/SC-W42-O
			WB APPROACH		W4-1	W4-2	27B	14/SC-W41-B	14/SC-W42-B
14 - BOTTOM	242	W6	WB APPROACH		W6-1	W6-2	28A	14/SC-W61-O	14/SC-W62-O
			WB APPROACH		W6-1	W6-2	28B	14/SC-W61-B	14/SC-W62-B

AFFIX SEAL: ON: _____ ALTERED BY: ON: _____

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CONSTRUCTION

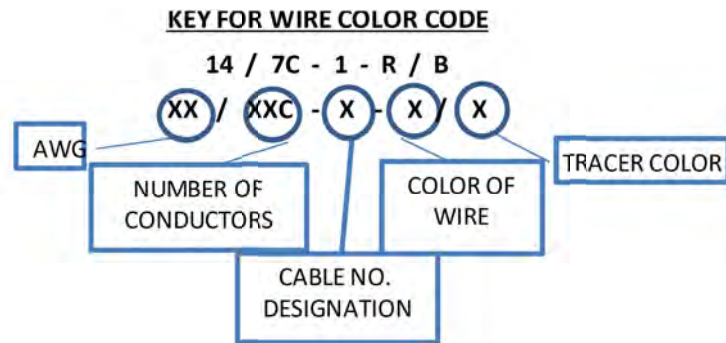
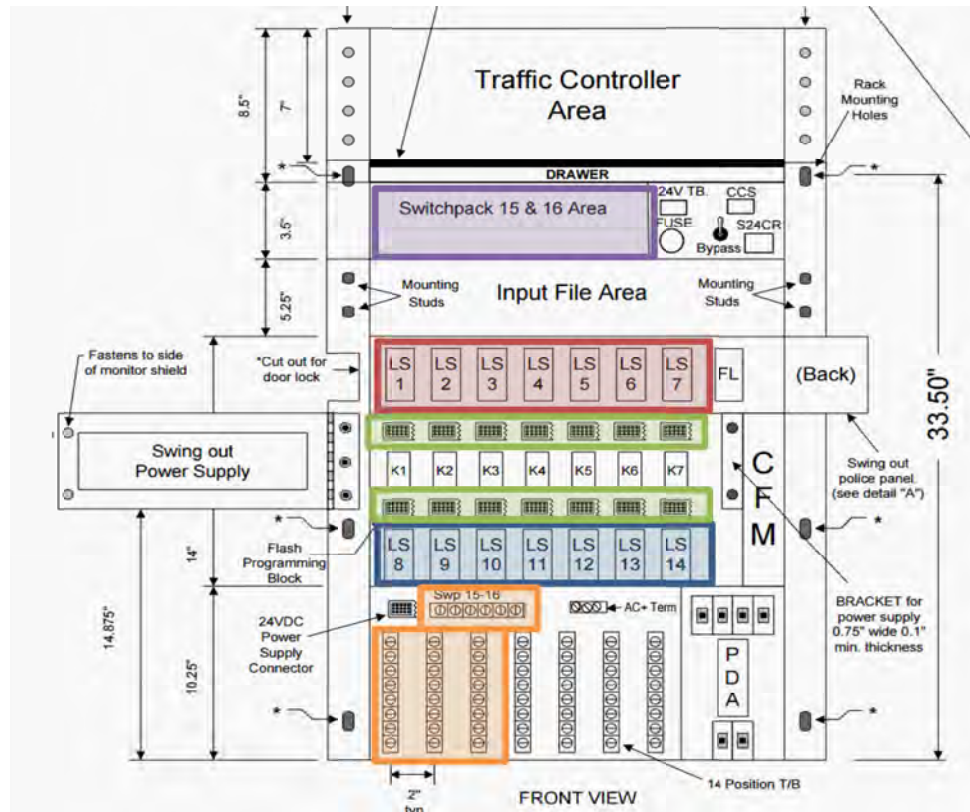
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL						DRAWING NO. TSD-25 SHEET NO. 103
SIGNAL NO. 299 U.S. (NIAGARA FALLS BLVD.) AND WILLOW RIDGE ROAD						

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SIGNAL 299

SIGNAL OPERATIONS SPECIFICATIONS
TABLE OF SWITCH PACKS

DATE: 2/27/2020



COLOR
 R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

LEGEND

INDICATIONS			
G	= CIRCULAR GREEN	Y	= CIRCULAR YELLOW
←G	= LEFT GREEN ARROW	←Y	= LEFT YELLOW ARROW
→G	= RIGHT GREEN ARROW	→Y	= RIGHT YELLOW ARROW
↑G	= VERT. GREEN ARROW	←FY	= FLASHING YELLOW ARROW
←G →G	= DUAL GREEN OUTPUT RT OVLP	←Y →Y	= DUAL YELLOW OUTPUT RT OVLP
		WALK	=HAND/MAN
		DONT WALK	=FLASHING HAND/COUNT DOWN TIMER

FLASH PLUG	
W	=DARK
R	=FLASH RED
Y	=FLASH YELLOW

SIGNAL NUMBER	SWITCH PACK	FUNCTION (Φ#/OVLP)	299		COUNTY	ERIE	INTERSECTION	US 62 @ WILLOW RIDGE ROAD			
			FACE NUMBERS	FLASH PLUG				INDICATIONS	TERMINAL	TERMINAL WIRING BOARD	
								WIRE COLOR CODE PER FACE			
SP 1	Φ1	NBL / US 62	4			R		←R	SP 1R	14/5C-4-R	
								←Y	SP 1Y	14/5C-4-Y	
								←G	SP 1G	14/5C-4-G	
								GND. BAR	GND. BUS	14/5C-4-W	
SP 2	Φ2	SBT/R / US 62	2	3		R		R	SP 2R	14/5C-2-R	14/5C-3-R
								Y	SP 2Y	14/5C-2-Y	14/5C-3-Y
								G	SP 2G	14/5C-2-G	14/5C-3-G
								GND. WIRE	GND. BUS	14/5C-2-W	14/5C-3-W
SP 3								SP 3R			
								SP 3Y			
								SP 3G			
								GND. WIRE	GND. BUS		
SP 4	Φ4	WBL/T/R / ROBINSON	7	8		R		R	SP 4R	14/5C-7-R	14/5C-8-R
								Y	SP 4Y	14/5C-7-Y	14/5C-8-Y
								G	SP 4G	14/5C-7-G	14/5C-8-G
								GND. WIRE	GND. BUS	14/5C-7-W	14/5C-8-W
SP 5	Φ5	SBL / US 62	1			R		←R	SP 5R	14/5C-1-R	
								←Y	SP 5Y	14/5C-1-Y	
								←G	SP 5G	14/5C-1-G	
								GND. BAR	GND. BUS	14/5C-1-W	
SP 6	Φ6	NBT/R / US 62	5	6		R		R	SP 6R	14/5C-5-R	14/5C-6-R
								Y	SP 6Y	14/5C-5-Y	14/5C-6-Y
								G	SP 6G	14/5C-5-G	14/5C-6-G
								GND. WIRE	GND. BUS	14/5C-5-W	14/5C-6-W
SP 7								SP 7R			
								SP 7Y			
								SP 7G			
								GND. WIRE	GND. BUS		
SP 8	Φ8	EBL/T/R / DRIVEWAY	7	8		R		R	SP 8R	14/5C-7-R	14/5C-8-R
								Y	SP 8Y	14/5C-7-Y	14/5C-8-Y
								G	SP 8G	14/5C-7-G	14/5C-8-G
								GND. WIRE	GND. BUS	14/5C-7-W	14/5C-8-W
SP 9	Φ2	SBL / US 62	1			---		SP 9R			
								SP 9Y			
								←FY	SP 9G	14/5C-1-B	
								GND. WIRE	GND. BUS		
SP 10	Φ6	NBL / US 62	4			---		SP 10R			
								SP 10Y			
								←FY	SP 10G	14/5C-4-B	
								GND. WIRE	GND. BUS		
SP 11								SP 11R			
								SP 11Y			
								SP 11G			
								GND. WIRE	GND. BUS		
SP 12								SP 12R			
								SP 12Y			
								SP 12G			
								GND. WIRE	GND. BUS		
SP 13								SP 13R			
								SP 13Y			
								SP 13G			
								GND. WIRE	GND. BUS		
SP 14								SP 14R			
								SP 14Y			
								SP 14G			
								GND. WIRE	GND. BUS		
SP 15	W4 WB / US 62	APPROACH CROSSING	W4-1	W4-2		W		WALK	SP 15R	14/5C-9-R	14/5C-10-R
								LED R3-SR	SP 15Y		14/3C-13-R
								DONT WALK	SP 15G	14/5C-9-G	14/5C-10-G
								GND. WIRE	GND. BUS	14/5C-9-W	14/5C-10-W
SP 16	W6 NB / W. RIDGE	APPROACH CROSSING	W6-1	W6-2		W		WALK	SP 16R	14/5C-11-R	14/5C-12-R
								LED R3-SR	SP 16Y		14/3C-14-R
								DONT WALK	SP 16G	14/5C-11-G	14/5C-12-G
								GND. WIRE	GND. BUS	14/5C-11-W	14/5C-12-W

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

DRAFT
NOT FOR
CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL					DRAWING NO. TSD-26 SHEET NO. 104	
SIGNAL NO. 299 U.S. (NIAGARA FALLS BLVD.) AND WILLOW RIDGE ROAD					C&S Engineers, Inc. 141 E. 9th Street, Suite 100 Buffalo, New York 14202 Phone: 716-847-1030 Fax: 716-847-1054 www.candse.com	

FILE NAME = **SYTIME**
 DATE/TIME = DGN**SYTIME0123456
 USER = DGN**USERNAME

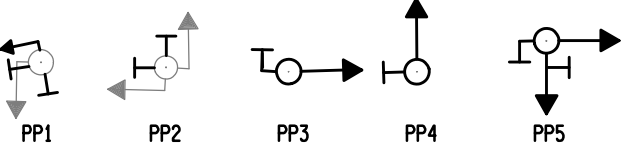
PROJECT MANAGER: D. BORCZ
 CHECK: D. STANSBURY
 DRAFTING: K. McARDELL
 CHECK: D. STANSBURY
 DESIGN: J. DEORDIO
 DESIGN: S. GEORGE
 JOB MANAGER: J. MORRISSEY
 DESIGN SUPERVISOR: J. MORRISSEY

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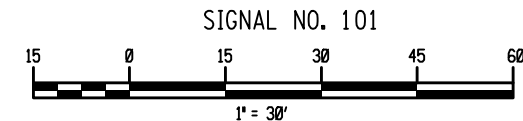
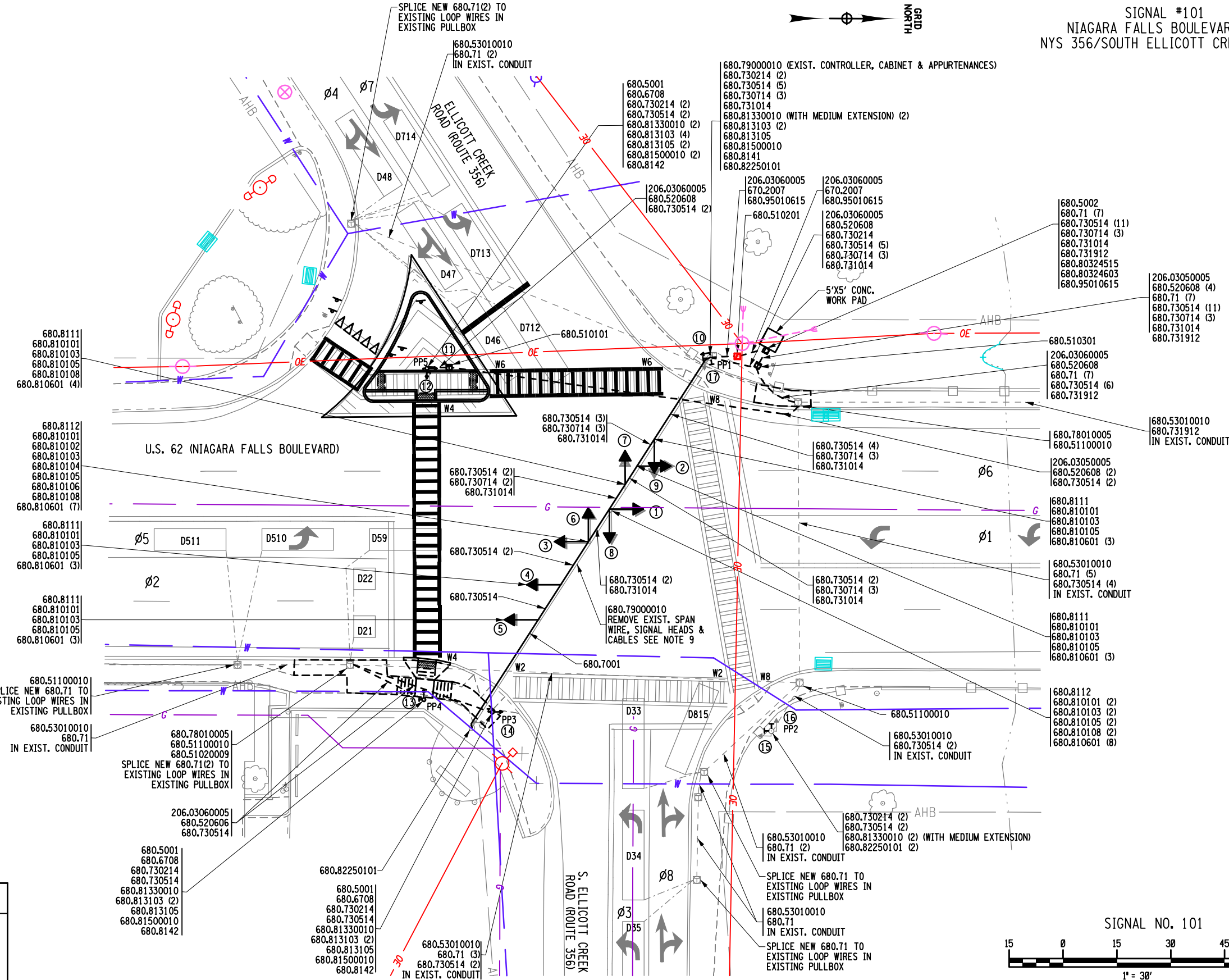
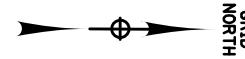
NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE NYS STANDARD SHEETS.
2. PRIOR TO BEGINNING ANY WORK THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC SIGNAL SECTION TO PERFORM AN INSPECTION OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. AFTER THE INSPECTION, THE CONTRACTOR MUST SUBMIT A WRITTEN NOTIFICATION WITH THE DATE THEY WILL ASSUME TRAFFIC SIGNAL MAINTENANCE, NO WORK SHALL PROCEED UNTIL TRAFFIC SIGNAL MAINTENANCE IS ASSUMED. THE EXISTING TRAFFIC SIGNAL SHALL BE MAINTAINED UNDER ITEM 619.1611 EXCEPT FOR THE CONTROLLER, PROGRAMMING AND TIMING WHICH SHALL BE MAINTAINED BY THE STATE.
3. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED. THE CONTRACTOR SHALL PAY A LIQUIDATED DAMAGES CHARGE OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.
4. ALL VEHICLE DETECTION AND SIGNAL COORDINATION MUST BE MAINTAINED AT ALL TIMES. UNLESS WRITTEN PERMISSION IS OBTAINED BY NYS DOT REPRESENTATIVE.
5. THE EXISTING CONTROLLER, CABINETS AND ALL ITS CONTENTS, LED TRAFFIC SIGNAL MODULES, LED PEDESTRIAN MODULES, ADA PEDESTRIAN PUSH BUTTONS, POLE CAPS, HAND HOLE COVERS AND PULLBOX FRAMES AND COVERS SHALL BE RETURNED TO THE STATE. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR.
6. WHERE THERE IS A POTENTIAL FOR DANGEROUS PROXIMITY OR CONTACT WITH ENERGIZED ELECTRICAL SYSTEMS, UTILITIES SHALL BE CALLED TO DECIDE THE NEED TO DE-ENERGIZE OR INSULATE LINES, OR OTHERWISE PROTECT AGAINST ACCIDENTAL CONTACT.
7. ALL TRAFFIC SIGNAL SECTIONS SHALL BE FURNISHED WITH OPEN TUNNEL VISORS.
8. THE 2 CONDUCTOR SIGNAL CABLE FROM THE SEPARATE PEDESTRIAN PUSHBUTTON POST SHALL BE ROUTED BACK TO THE POLE WHERE ITS ASSOCIATED PEDESTRIAN SIGNAL HEAD IS MOUNTED, IT WILL THEN BE WIRED TO THE TERMINAL BLOCK WITHIN THE PEDESTRIAN SIGNAL HEAD AND RUN BACK TO THE CONTROLLER CABINET ON THE 5 CONDUCTOR CABLE THAT IS WIRED FOR THE PEDESTRIAN SIGNAL HEAD.
9. CONTRACTOR SHALL REPLACE EXISTING SPAN WIRE, TRAFFIC SIGNAL HEADS AND SIGNAL CABLE AT THIS LOCATION AS FOLLOWS:
 DAY ONE - CONTRACTOR SHALL INSTALL PROPOSED SPAN WIRE AND SIGNAL CABLES.
 DAY TWO - CONTRACTOR, USING FLAGMEN, SHALL REMOVE EXISTING TRAFFIC SIGNAL HEADS AND INSTALL NEW TRAFFIC SIGNAL HEADS. THE CONTRACTOR SHALL REMOVE, INSTALL AND WIRE ONE SIGNAL HEAD AT A TIME AS TO NOT INCREASE THE LOAD ON THE EXISTING TRAFFIC SIGNAL POLES.
10. CONTRACTOR SHALL WELD SHUT & FIELD GALVANIZE UNUSED HOLES IN THE EXISTING STRAIN POLE ON THE N/W/C TO THE SATISFACTION OF THE ENGINEER. COST OF THIS WORK SHALL BE INCLUDED UNDER ITEM 680.79000010.
11. THE FOLLOWING EQUIPMENT SHALL BE REMOVED UNDER THE PROVISIONS OF ITEM 680.79000010; CONTROLLER, CABINET, SPAN WIRE, SIGNAL HEADS, WIRES AND ALL RELATED HARDWARE.





PEDESTRIAN PUSHBUTTON ORIENTATION DIAGRAMS (NOT TO SCALE)

SIGNAL #101
 NIAGARA FALLS BOULEVARD AT
 NYS 356/SOUTH ELLICOTT CREEK ROAD



AFFIX SEAL: ON:	ALTERED BY: ON:																														
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:																															
<table border="1"> <tr> <td>NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN</td> <td>PIN 5308.38</td> <td>BRIDGES</td> <td>CULVERTS</td> <td>ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED</td> <td>CONTRACT NUMBER D264244</td> </tr> <tr> <td>U.S. 62 & NY 950K</td> <td>U.S. 62 & NY 950K</td> <td></td> <td></td> <td>TRAFFIC SIGNAL DETAIL</td> <td>DRAWING NO. TSD-27</td> </tr> <tr> <td>FROM KENMORE AVENUE TO ADMIRALS WALK</td> <td></td> <td></td> <td></td> <td></td> <td>SHEET NO. 105</td> </tr> <tr> <td>TOWNS OF AMHERST & TONAWANDA</td> <td></td> <td></td> <td></td> <td>LOCATION NO. 47 U.S. 62 (NIAGARA FALLS BLVD.) AND ELLICOTT CREEK ROAD / S. ELLICOTT CREEK ROAD</td> <td></td> </tr> <tr> <td>COUNTY: ERIE</td> <td>REGION: 5</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244	U.S. 62 & NY 950K	U.S. 62 & NY 950K			TRAFFIC SIGNAL DETAIL	DRAWING NO. TSD-27	FROM KENMORE AVENUE TO ADMIRALS WALK					SHEET NO. 105	TOWNS OF AMHERST & TONAWANDA				LOCATION NO. 47 U.S. 62 (NIAGARA FALLS BLVD.) AND ELLICOTT CREEK ROAD / S. ELLICOTT CREEK ROAD		COUNTY: ERIE	REGION: 5				
NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244																										
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NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & NY 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE	PIN 5308.38 U.S. 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL LOCATION NO. 47 U.S. 62 (NIAGARA FALLS BLVD.) AND ELLICOTT CREEK ROAD / S. ELLICOTT CREEK ROAD	CONTRACT NUMBER D264244 DRAWING NO. TSD-27 SHEET NO. 105
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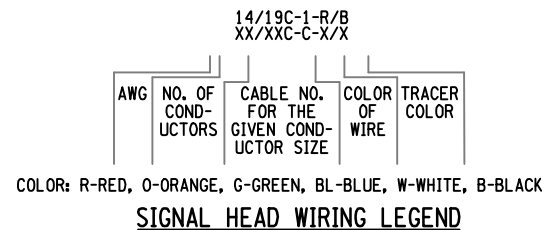



Department of Transportation

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PROJECT MANAGER W. HOLSBERGER
 CHECK A. GUGLIELMI
 DRAFTING J. DONNAN
 CHECK M. KENNEDY
 DESIGN R. WINTER
 JOB MANAGER R. WINTER
 DESIGN SUPERVISOR W. HOLSBERGER

TABLE OF SWITCH PACKS					
SIGNAL NO. 101 INT. NAME: U.S. 62 (NIAGARA FALLS BLVD) AND ELLICOTT CREEK RD/ S. ELLICOTT CREEK RD.					
SWITCH PACK	FUNCTION	FACE NOS	INDICATIONS	TERMINAL WIRING BOARD	
				TERMINAL	WIRE COLOR CODE
SP1	Ø1	1	<-Y-	SP1R	14/7C-2-BL
			<-G-	SP1Y	14/7C-2-G
			GROUND WIRE	SP1G	14/7C-2-G
SP2	Ø2	4,5	R	SP2R	14/5C-3-R
			Y	SP2Y	14/5C-3-O
			G	SP2G	14/5C-3-G
SP3	Ø3	8	<-Y-	SP3R	14/7C-3-BL
			<-G-	SP3Y	14/7C-3-G
			GROUND WIRE	SP3G	14/7C-3-G
SP4	Ø4	6,7	R	SP4R	14/10C-1-R/B
			Y	SP4Y	14/10C-1-O/B
			G	SP4G	14/10C-1-G/B
SP5	Ø5	3	<-R-	SP5R	14/10C-1-R
			<-Y-	SP5Y	14/10C-1-O
			<-G-	SP5G	14/10C-1-G
SP6	Ø6	1,2	R	SP6R	14/7C-2-R
			Y	SP6Y	14/7C-2-O
			G	SP6G	14/7C-2-B
SP7	Ø7	7	<-Y-	SP7R	14/7C-1-BL
			<-G-	SP7Y	14/7C-1-G
			GROUND WIRE	SP7G	14/7C-1-G
SP8	Ø8	8,9	R	SP8R	14/7C-3-R
			Y	SP8Y	14/7C-3-O
			G	SP8G	14/7C-3-B
SP9			R	SP9R	
			Y	SP9Y	
			G	SP9G	
SP10			R	SP10R	
			Y	SP10Y	
			G	SP10G	
SP11			R	SP11R	
			Y	SP11Y	
			G	SP11G	
SP12			R	SP12R	
			Y	SP12Y	
			G	SP12G	
SP13	PED A Ø2	14,15	DW	SP13R	14/5C-9-R
			W	SP13Y	14/5C-9-O
			GROUND WIRE	SP13G	14/5C-9-G
SP14	PED B Ø6	10,11	DW	SP14R	14/5C-5-R
			W	SP14Y	14/5C-5-O
			GROUND WIRE	SP14G	14/5C-5-G
SP15	PED C Ø4	12,13	DW	SP15R	14/5C-7-R
			W	SP15Y	14/5C-7-O
			GROUND WIRE	SP15G	14/5C-7-G
SP16	PED D Ø8	16,17	DW	SP16R	14/5C-11-R
			W	SP16Y	14/5C-11-O
			GROUND WIRE	SP16G	14/5C-11-G

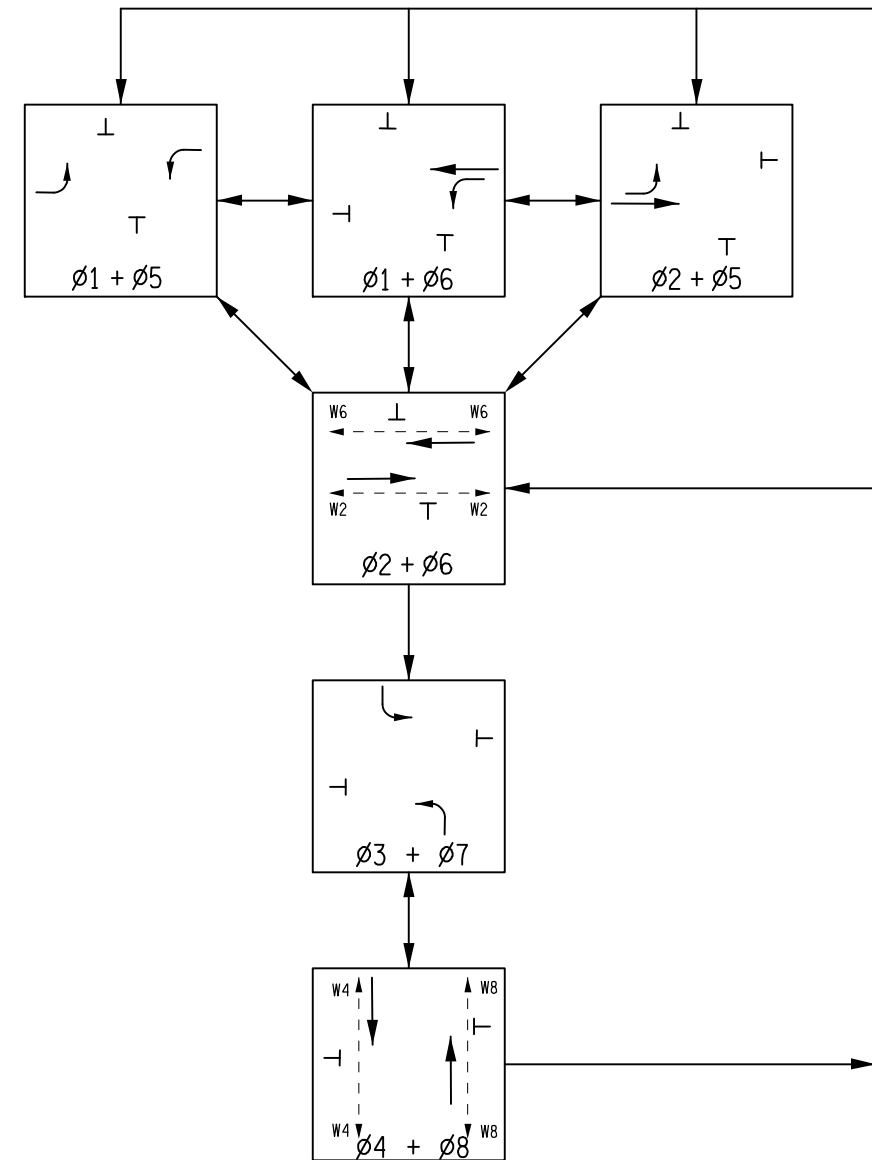


SIGNAL OF OPERATION SPECIFICATIONS TABLE OF SWITCH PACKS				
SIGNAL NO. 101 INT. NAME: U.S. 62 (NIAGARA FALLS BLVD) AND ELLICOTT CREEK RD/S. ELLICOTT CREEK RD.				
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
Ø2	D21, D22	PRESENCE LOOP	1A, 2B	EXISTING
Ø3	D33, D34, D35	PRESENCE LOOP	2A, 2B	EXISTING
Ø4	D46, D47, D48	PRESENCE LOOP	3A, 3B	EXISTING
Ø5	D59, D510, D511	PRESENCE LOOP	4A, 4B	EXISTING
Ø7	D712, D713, D714	PRESENCE LOOP	5A, 5B	EXISTING
Ø8	D815	PRESENCE LOOP	6A, 6B	EXISTING
			7A, 7B	EXISTING
			8A, 8B	
			9A, 9B	
			10A, 10B	
			11A, 11B	
			12A, 12B	
			13A, 13B	
			14A, 14B	
			15A, 15B	
			16A, 16B	
			17A, 17B	
			18A, 18B	
			19A, 19B	
Ø2	14,15	PUSHBUTTON	20A, 20B	
Ø4	12,13	PUSHBUTTON	21A, 21B	
Ø6	10,11	PUSHBUTTON	22A, 22B	
Ø8	16,17	PUSHBUTTON	23A, 23B	
			24A, 24B	
			25A, 25B	
			26A, 26B	
			27A, 27B	
			28A, 28B	

TABLE OF OPERATIONS													
PHASE	FACE												
	1	2	3	4	5	6	7	8	9	10,11	12,13	14,15	16,17
Ø1 + Ø5	-G	R	-G	R	R	R	R	R	R	DW	DW	DW	DW
Ø1 + Ø6	G-G	G	-R	R	R	R	R	R	R	DW	DW	DW	DW
Ø2 + Ø5	-R	R	-G	G	G	R	R	R	R	DW	DW	DW	DW
Ø2 + Ø6	G	G	-R	G	G	R	R	R	R	W/FDW	DW	W/FDW	DW
Ø3 + Ø7	R	R	-R	R	R	R	-G	-G	R	DW	DW	DW	DW
Ø4 + Ø8	R	R	-R	R	R	G	G	G	G	DW	W/FDW	DW	W/FDW
FLASHING OPERATION	FY	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK	DARK	DARK
DISPLAY													
12 IN DIAMETER LENSES													

TO	FROM		
		R	G
R	R	Y	Y-Y
G	R	G	G
G-G	R	G	G-G
	R	G	G-G

R = CIRCULAR RED
 -R = LEFT RED ARROW
 FR = FLASHING RED
 DW = HAND (DON'T WALK)
 OVL = OVERLAP
 Y = CIRCULAR YELLOW
 -Y = LEFT YELLOW ARROW
 FY = FLASHING YELLOW
 W = MAN (WALK)
 G = CIRCULAR GREEN
 -G = LEFT GREEN ARROW
 -G = RIGHT GREEN ARROW
 PED = PEDESTRIAN



SIGNAL #101
 NIAGARA FALLS BOULEVARD AT
 NY 356/SOUTH ELLICOTT CREEK ROAD

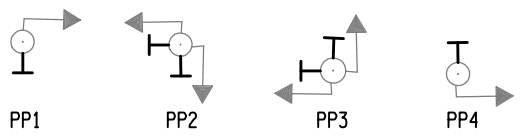
AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D264244
U.S. 62 & NY 950K	U.S. 62 & NY 950K			TRAFFIC SIGNAL DETAIL	DRAWING NO. TSD-28
FROM KENMORE AVENUE TO ADMIRALS WALK				LOCATION NO. 47 U.S. 62 (NIAGARA FALLS BLVD.) AND ELLICOTT CREEK ROAD / S. ELLICOTT CREEK ROAD	SHEET NO. 106
TOWNS OF AMHERST & TONAWANDA					
COUNTY: ERIE REGION: 5					

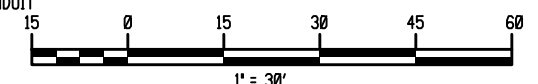
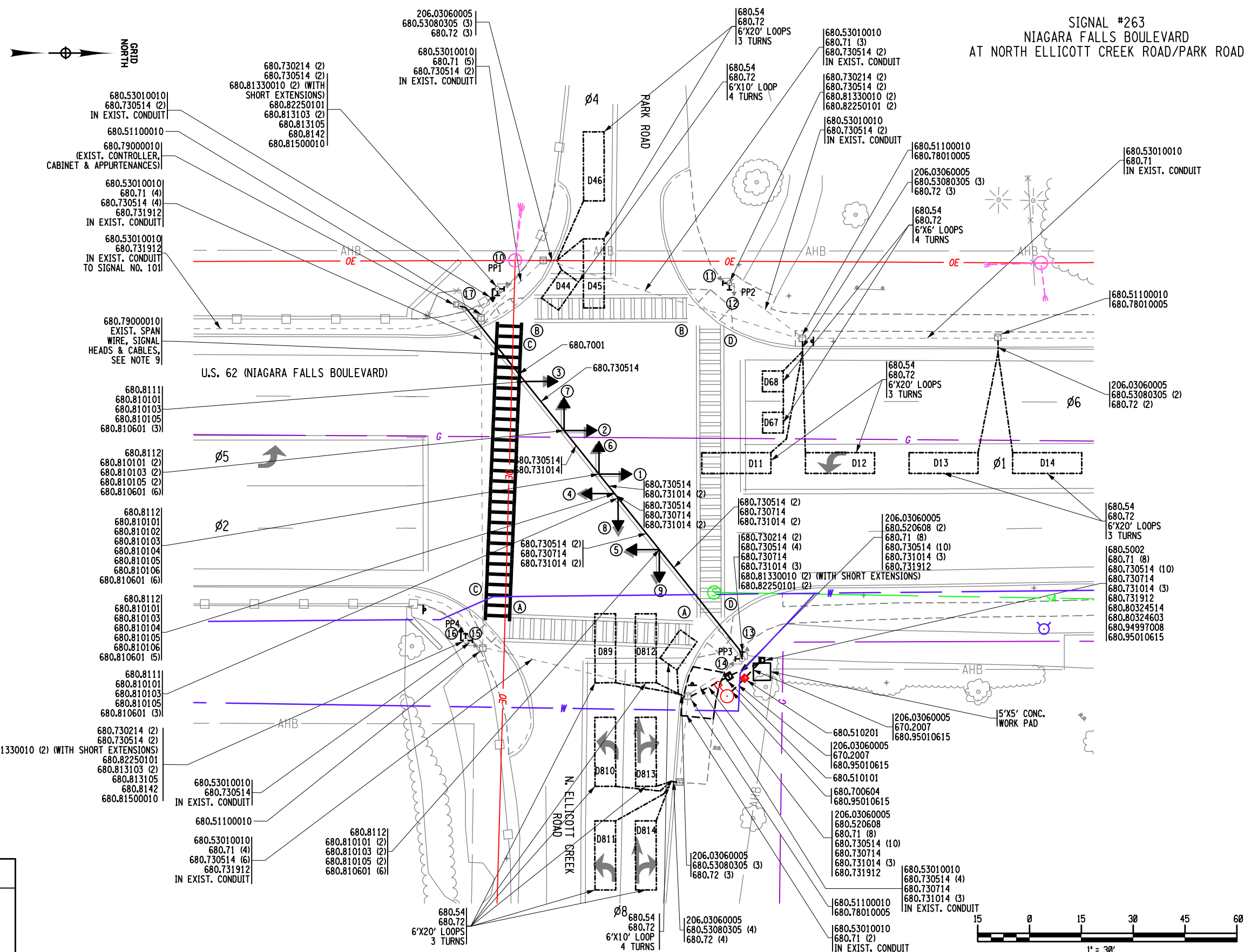
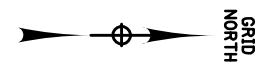
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SIGNAL #263
 NIAGARA FALLS BOULEVARD
 AT NORTH ELLICOTT CREEK ROAD/PARK ROAD

- NOTES:**
1. ALL WORK SHALL BE DONE IN ACCORDANCE NYS STANDARD SHEETS.
 2. PRIOR TO BEGINNING ANY WORK THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC SIGNAL SECTION TO PERFORM AN INSPECTION OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT. AFTER THE INSPECTION, THE CONTRACTOR MUST SUBMIT A WRITTEN NOTIFICATION WITH THE DATE THEY WILL ASSUME TRAFFIC SIGNAL MAINTENANCE, NO WORK SHALL PROCEED UNTIL TRAFFIC SIGNAL MAINTENANCE IS ASSUMED. THE EXISTING TRAFFIC SIGNAL SHALL BE MAINTAINED UNDER ITEM 619.1611 EXCEPT FOR THE CONTROLLER, PROGRAMMING AND TIMING WHICH SHALL BE MAINTAINED BY THE STATE.
 3. ALL TRAFFIC SIGNALS SHALL BE MAINTAINED IN A TRAFFIC RESPONSIVE OPERATION AND ALL INTERCONNECT, WHERE EXISTING, SHALL BE MAINTAINED. THE CONTRACTOR SHALL PAY A LIQUIDATED DAMAGES CHARGE OF \$500.00 PER CALENDAR DAY IF ACTUATION AND COORDINATION IS NOT MAINTAINED.
 4. ALL VEHICLE DETECTION AND SIGNAL COORDINATION MUST BE MAINTAINED AT ALL TIMES. UNLESS WRITTEN PERMISSION IS OBTAINED BY NYS DOT REPRESENTATIVE.
 5. THE EXISTING CONTROLLER, CABINETS AND ALL ITS CONTENTS, LED TRAFFIC SIGNAL MODULES, LED PEDESTRIAN MODULES, ADA PEDESTRIAN PUSH BUTTONS, POLE CAPS, HAND HOLE COVERS AND PULLBOX FRAMES AND COVERS SHALL BE RETURNED TO THE STATE. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR.
 6. WHERE THERE IS A POTENTIAL FOR DANGEROUS PROXIMITY OR CONTACT WITH ENERGIZED ELECTRICAL SYSTEMS, UTILITIES SHALL BE CALLED TO DECIDE THE NEED TO DE-ENERGIZE OR INSULATE LINES, OR OTHERWISE PROTECT AGAINST ACCIDENTAL CONTACT.
 7. ALL TRAFFIC SIGNAL SECTIONS SHALL BE FURNISHED WITH OPEN TUNNEL VISORS.
 8. THE 2 CONDUCTOR SIGNAL CABLE FROM THE SEPARATE PEDESTRIAN PUSHBUTTON POST SHALL BE ROUTED BACK TO THE POLE WHERE ITS ASSOCIATED PEDESTRIAN SIGNAL HEAD IS MOUNTED, IT WILL THEN BE WIRED TO THE TERMINAL BLOCK WITHIN THE PEDESTRIAN SIGNAL HEAD AND RUN BACK TO THE CONTROLLER CABINET ON THE 5 CONDUCTOR CABLE THAT IS WIRED FOR THE PEDESTRIAN SIGNAL HEAD.
 9. CONTRACTOR SHALL REPLACE EXISTING SPANWIRE, TRAFFIC SIGNAL HEADS AND SIGNAL CABLE AT THIS LOCATION AS FOLLOWS:
 DAY ONE - CONTRACTOR SHALL INSTALL PROPOSED SPAN WIRE AND SIGNAL CABLES.
 DAY TWO - CONTRACTOR, USING FLAGMEN, SHALL REMOVE EXISTING TRAFFIC SIGNAL HEADS AND INSTALL NEW TRAFFIC SIGNAL HEADS. THE CONTRACTOR SHALL REMOVE, INSTALL AND WIRE ONE SIGNAL HEAD AT A TIME AS TO NOT INCREASE THE LOAD ON THE EXISTING TRAFFIC SIGNAL POLES.
 10. CONTRACTOR SHALL WELD SHUT & FIELD GALVANIZE UNUSED HOLES IN THE EXISTING STRAIN POLE ON THE N/W/C TO THE SATISFACTION OF THE ENGINEER. COST OF THIS WORK SHALL BE INCLUDED UNDER ITEM 680.79000010.
 11. THE FOLLOWING EQUIPMENT SHALL BE REMOVED UNDER THE PROVISIONS OF ITEM 680.79000010; CONTROLLER, CABINET, SPAN WIRE, SIGNAL WIRES AND ALL RELATED HARDWARE.
 12. EXISTING TRAFFIC SIGNAL LOOPS AT THIS LOCATION ARE TO BE ABANDONED AND REPLACED IN-KIND.



PEDESTRIAN PUSHBUTTON ORIENTATION DIAGRAMS
 (NOT TO SCALE)



AFFIX SEAL: RYAN M. WINTER, P.E.
 ON: _____
 ALTERED BY:
 ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	U.S. 62 & NY 950K	US ROUTE 62 & NY 950K				D264244
	FROM KENMORE AVENUE TO ADMIRALS WALK				TRAFFIC SIGNAL DETAIL	DRAWING NO. TSD-29
	TOWNS OF AMHERST & TONAWANDA	COUNTY: ERIE	REGION: 5		LOCATION NO. 48 U.S. 62 (NIAGARA FALLS BLVD.) AND PARK ROAD AND N. ELLICOTT CREEK ROAD	SHEET NO. 107

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FILE NAME = SSSI1121.dwg
 DATE/TIME = 3/5/2020 10:00:00
 USER = aguglielmi

PROJECT MANAGER: W. HOLSBERGER
 CHECK: A. GUGLIELMI
 DRAFTING: J. DONNAN
 CHECK: M. KENNEDY
 DESIGN: R. WINTER
 JOB MANAGER: R. WINTER
 DESIGN SUPERVISOR: W. HOLSBERGER

FILE NAME = S5517121.op -fsp-4a.dgn
 DATE/TIME = 3/5/2020
 USER = Aguglielmi

PROJECT MANAGER W. HOLSBERGER
 CHECK A. GUGLIELMI
 DRAFTING J. DONNAN
 CHECK M. KENNEDY
 DESIGN R. WINTER
 JOB MANAGER R. WINTER

SIGNAL OF OPERATION SPECIFICATIONS						
TABLE OF SWITCH PACKS						
SIGNAL NO. 263		INT. NAME: U.S. 62 (NIAGARA FALLS BLVD) AND PARK ROAD/ N. ELLICOTT CREEK ROAD				
SWITCH PACK	FUNCTION	FACE NOS	INDICATIONS	TERMINAL WIRING BOARD		
				TERMINAL	WIRE COLOR CODE	
SP 1	Ø1	1	<-R-	SP 1R	14/10C-2-R	
			<-Y-	SP 1Y	14/10C-2-O	
			<-G-	SP 1G	14/10C-2-G	
			GROUND WIRE	GROUND BUS	14/10C-2-W	
SP 2	Ø2	4,5	R	SP 2R	14/7C-1-R	14/10C-3-R
			Y	SP 2Y	14/7C-1-O	14/10C-3-O
			G	SP 2G	14/7C-1-B	14/10C-3-G
			GROUND WIRE	GROUND BUS	14/7C-1-W	14/10C-3-W
SP 3				SP 3R		
				SP 3Y		
				SP 3G		
			GROUND WIRE	GROUND BUS		
SP 4	Ø4	6,7	R	SP 4R	14/10C-2-R/B	14/10C-1-R/B
			Y	SP 4Y	14/10C-2-O/B	14/10C-1-O/B
			G	SP 4G	14/10C-2-G/B	14/10C-1-G/B
			GROUND WIRE	GROUND BUS	14/10C-2-W/B	14/10C-1-W/B
SP 5	Ø5	4	<-Y-	SP 5Y	14/7C-1-BL	
			<-G-	SP 5G	14/7C-1-G	
			GROUND WIRE	GROUND BUS		
SP 6	Ø6	2,3	R	SP 6R	14/10C-1-R	14/5C-1-R
			Y	SP 6Y	14/10C-1-O	14/5C-1-O
			G	SP 6G	14/10C-1-G	14/5C-1-G
			GROUND WIRE	GROUND BUS	14/10C-1-W	14/5C-1-W
SP 7				SP 7R		
				SP 7Y		
				SP 7G		
			GROUND WIRE	GROUND BUS		
SP 8	Ø8	8,9	R	SP 8R	14/5C-2-R	14/10C-3-R/B
			Y	SP 8Y	14/5C-2-O	14/10C-3-O/B
			G	SP 8G	14/5C-2-G	14/10C-3-G/B
			GROUND WIRE	GROUND BUS	14/5C-2-W	14/10C-3-W/B
SP 9				SP 9R		
				SP 9Y		
				SP 9G		
			GROUND WIRE	GROUND BUS		
SP 10				SP 10R		
				SP 10Y		
				SP 10G		
			GROUND WIRE	GROUND BUS		
SP 11				SP 11R		
				SP 11Y		
				SP 11G		
			GROUND WIRE	GROUND BUS		
SP 12				SP 12R		
				SP 12Y		
				SP 12G		
			GROUND WIRE	GROUND BUS		
SP 13	PED A Ø2	16,17	DW	SP 13R	14/5C-7-R	14/5C-8-R
			W	SP 13Y	14/5C-7-G	14/5C-8-G
			GROUND WIRE	GROUND BUS	14/5C-7-W	14/5C-8-W
SP 14	PED B Ø6	18,19	DW	SP 14R	14/5C-3-R	14/5C-4-R
			W	SP 14Y	14/5C-3-G	14/5C-4-G
			GROUND WIRE	GROUND BUS	14/5C-3-W	14/5C-4-W
SP 15	PED C Ø4	20,21	DW	SP 15R	14/5C-9-R	14/5C-10-R
			W	SP 15Y	14/5C-9-G	14/5C-10-G
			GROUND WIRE	GROUND BUS	14/5C-9-W	14/5C-10-W
SP 16	PED D Ø8	22,23	DW	SP 16R	14/5C-5-R	14/5C-6-R
			W	SP 16Y	14/5C-5-G	14/5C-6-G
			GROUND WIRE	GROUND BUS	14/5C-5-W	14/5C-6-W

SIGNAL OF OPERATION SPECIFICATIONS				
TABLE OF SWITCH PACKS				
SIGNAL NO. 263		INT. NAME: U.S. 62 (NIAGARA FALLS BLVD) AND PARK ROAD/N. ELLICOTT CREEK ROAD		
FUNCTION	DETECTOR NUMBER	TYPE	TERMINAL BOARD WIRING	REMARKS
Ø1	D11, D12, D13, D14	PRESENCE LOOP	1A, 2B 2A, 2B 3A, 3B	
Ø4	D44, D45, D46	PRESENCE LOOP	4A, 4B 5A, 5B 6A, 6B	
Ø8	D89, D810, D811, D812, D813, D814	PRESENCE LOOP	7A, 7B 8A, 8B 9A, 9B 10A, 10B 11A, 11B 12A, 12B 13A, 13B 14A, 14B 15A, 15B 16A, 16B 17A, 17B 18A, 18B 19A, 19B 20A, 20B 21A, 21B 22A, 22B 23A, 23B 24A, 24B 25A, 25B 26A, 26B 27A, 27B 28A, 28B	
Ø2	PED A	PUSHBUTTON		
Ø4	PED C	PUSHBUTTON		
Ø6	PED B	PUSHBUTTON		
Ø8	PED D	PUSHBUTTON		

TABLE OF OPERATIONS																
PHASE	FACE															
	1	2	3	4	5	6	7	8	9	10,11	12,13	14,15	16,17			
Ø1 + Ø5	<-G-	R	R	<-G- R	R	R	R	R	R	R	DW	DW	DW	DW		
Ø1 + Ø6	<-G-	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW		
Ø2 + Ø5	<-R-	R	R	<-G- G	G	R	R	R	R	R	DW	DW	DW	DW		
Ø2 + Ø6	<-R-	G	G	G	G	R	R	R	R	R	W/FDW	DW	W/FDW	DW		
Ø4 + Ø8	<-R-	R	R	R	R	G	G	G	G	G	DW	W/FDW	DW	W/FDW		
FLASHING OPERATION	FR	FY	FY	FY	FY	FR	FR	FR	FR	DARK	DARK	DARK	DARK			
12 IN DIAMETER LENSES																

TABLE OF CLEARANCES			
TO	FROM		
	R	G	G <-G-
R	R	Y	Y <-Y-
G	R	G	G <-Y-
G <-G-	R	G	G <-G-

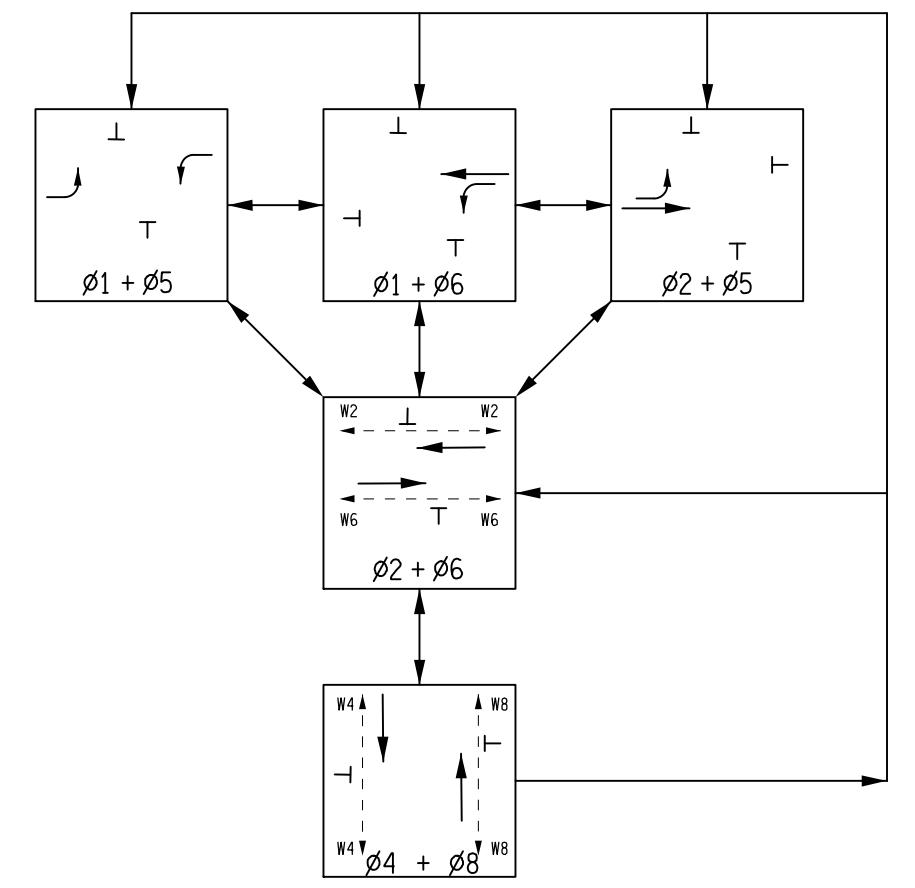
OPERATIONS LEGEND
 Ø = PHASE

R = CIRCULAR RED
 -R = LEFT RED ARROW
 FR = FLASHING RED
 DW = HAND (DON'T WALK)
 OVL = OVERLAP

Y = CIRCULAR YELLOW
 -Y = LEFT YELLOW ARROW
 FY = FLASHING YELLOW
 W = MAN (WALK)

G = CIRCULAR GREEN
 -G = LEFT GREEN ARROW
 FG = FLASHING GREEN
 PED = PEDESTRIAN

SIGNAL #263
 NIAGARA FALLS BOULEVARD AT
 NORTH ELLICOTT CREEK ROAD/PARK ROAD



SEQUENCE DIAGRAM

AWG	NO. OF COND-UCTORS	CABLE NO. FOR THE GIVEN COND-UCTOR SIZE	COLOR OF WIRE	TRACER COLOR
14/19C-1-R/B				
XX/XXC-C-X/X				

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK

SIGNAL HEAD WIRING LEGEND

AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN
 U.S. 62 & NY 950K
 FROM KENMORE AVENUE TO ADMIRALS WALK
 TOWNS OF AMHERST & TONAWANDA
 COUNTY: ERIE REGION: 5

PIN 5308.38
 U.S. 62 & NY 950K

BRIDGES
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL DETAIL

LOCATION NO. 48
 U.S. 62 (NIAGARA FALLS BLVD.) AND PARK ROAD
 AND N. ELLICOTT CREEK ROAD

CONTRACT NUMBER
 D264244

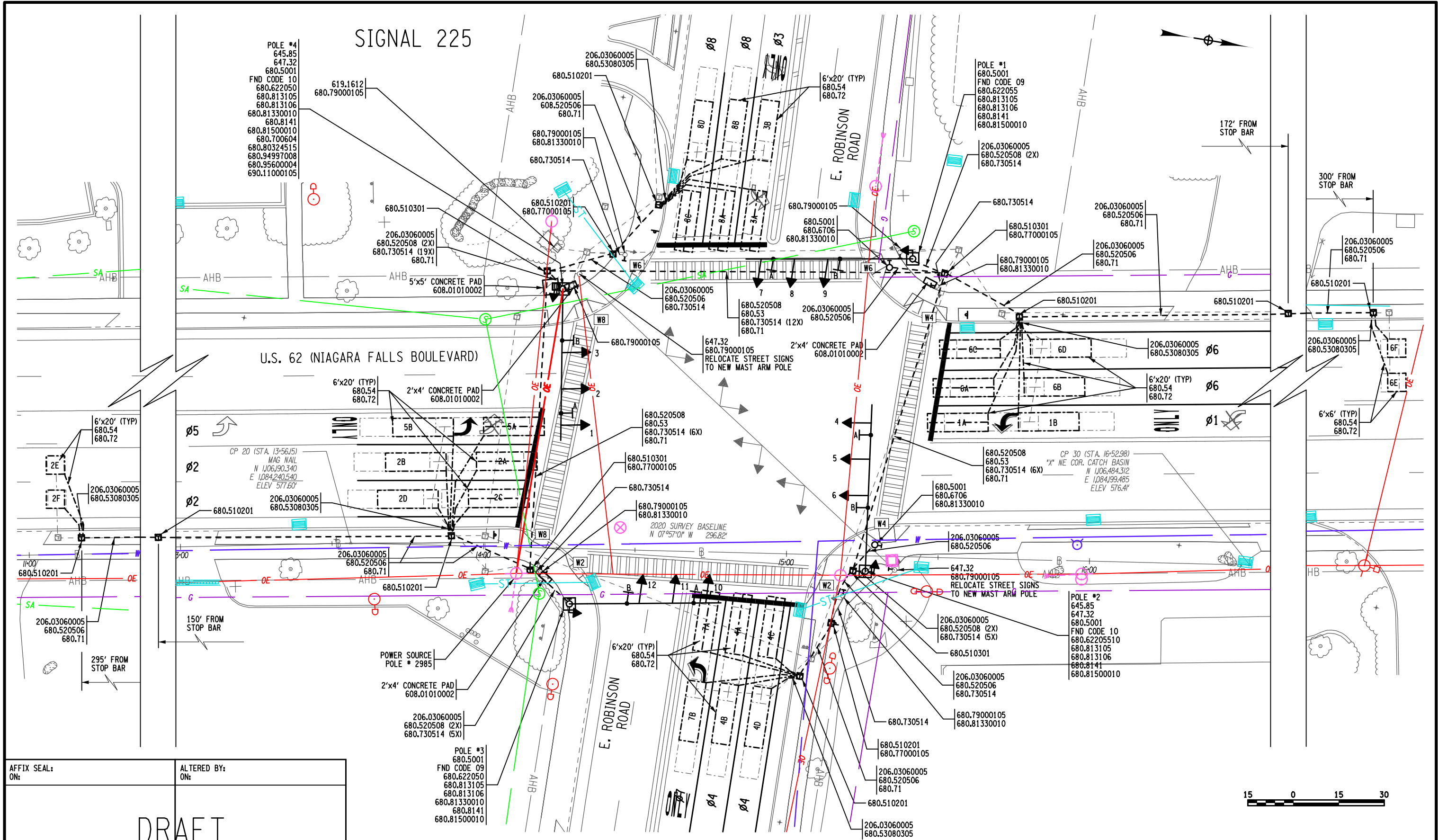
DRAWING NO. TSD-30
 SHEET NO. 108

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



FILE NAME = F:\Project\190 - N.Y.S. DEPT OF TRANSPORTATION\190526001 PSAP R0-6\Design\Technical\WVSDOT Region 5 Information\NFB Signals\Erra_US 62 @ East Robinson.dgn
 DATE/TIME = 3/4/2020
 USER = abrownell

DESIGN SUPERVISOR J. MORRISSEY JOB MANAGER S. GEORGE DESIGN J. DEORIO CHECK D. STANSBURY DRAFTING K. McARDRELL CHECK D. STANSBURY PROJECT MANAGER D. BORCZ



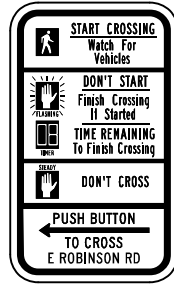
AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

DRAFT
NOT FOR
CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED TRAFFIC SIGNAL DETAIL SIGNAL NO. 225 U.S. (NIAGARA FALLS BLVD.) AND EAST ROBINSON ROAD	CONTRACT NUMBER DRAWING NO. TSD-31 SHEET NO. 109
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





R10-31

ARROW MAY FACE LEFT OR RIGHT, IT IS CONTRACTOR'S RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

PEDESTRIAN PUSHBUTTON SIGNS:
USE SIGN R10-31 (MUTCD).
SIZE OF SIGN SHALL BE 9" X 15".
INCLUDE TEXT AND PROPER DIRECTIONAL ARROWS:
"NIAGARA FALLS BLVD" FOR W4 (2) AND W8 (2)
"EAST ROBINSON ROAD" FOR W2 (2) AND W6 (2)

TRAFFIC SIGNAL MODIFY AND REMOVAL NOTES:

ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION, US 62 AND EAST ROBINSON ROAD LOCATION SHALL INCLUDE THE FOLLOWING:

SW & NE QUADRANT: REMOVAL OF EXISTING TRAFFIC SIGNAL POLES, SPAN WIRES, PEDESTRIAN AND SIGNAL SECTIONS, AND WIRING. RELOCATE EXISTING STREET SIGNS TO NEW TRAFFIC SIGNAL MAST ARM POLE. EXISTING STANDALONE CONTROLLER IN SW QUADRANT TO BE SALVAGED AND STORED FOR PICKUP BY NYS DOT TRAFFIC FORCES.

SW QUADRANT: REMOVAL OF EXISTING PEDESTRIAN BUTTON POLE, INCLUDING PEDESTRIAN BUTTON, SIGN AND WIRING. REMOVAL OF EXISTING PUSH BUTTONS AND SIGNS ON EXISTING PEDESTRIAN POLES WHERE THERE IS APS BUTTON REPLACEMENT. IF NEW APS PUSH BUTTON REQUIRES NEW HOLES TO BE DRILLED IN POLE, EXISTING HOLES SHALL BE COVERED WITH A PLATE AND FASTENERS, COST INCLUDED UNDER THIS ITEM.

NE & SE QUADRANT: REMOVAL OF EXISTING PUSH BUTTONS AND SIGNS ON EXISTING PEDESTRIAN POLES WHERE THERE IS APS BUTTON REPLACEMENT. IF NEW APS PUSH BUTTON REQUIRES NEW HOLES TO BE DRILLED IN POLE, EXISTING HOLES SHALL BE COVERED WITH A PLATE AND FASTENERS, COST INCLUDED UNDER THIS ITEM.

NW QUADRANT: REMOVAL OF EXISTING PEDESTRIAN SIGNAL POLE, INCLUDING PEDESTRIAN SIGNAL INDICATIONS, BUTTONS, SIGNS AND WIRING. REMOVAL OF EXISTING PUSH BUTTONS AND SIGNS ON EXISTING PEDESTRIAN POLES WHERE THERE IS APS BUTTON REPLACEMENT. IF NEW APS PUSH BUTTON REQUIRES NEW HOLES TO BE DRILLED IN POLE, EXISTING HOLES SHALL BE COVERED WITH A PLATE AND FASTENERS, COST INCLUDED UNDER THIS ITEM.

ITEM 680.77000105 - MODIFY TRAFFIC SIGNAL INSTALLATION, US 62 AND EAST ROBINSON ROAD LOCATION SHALL INCLUDE THE FOLLOWING:

ALL QUADRANTS: INSTALL NEW PULLBOX OVER EXISTING CONDUIT. REMOVE EXISTING WIRING AT NEW PULLBOX INSTALLATION. MODIFY EXISTING CONDUIT TO ATTACH TO THE NEW PULLBOX. PLACE NEW WIRING IN EXISTING CONDUIT LEADING TO EXISTING PEDESTRIAN TRAFFIC POLES BEING RETAINED.

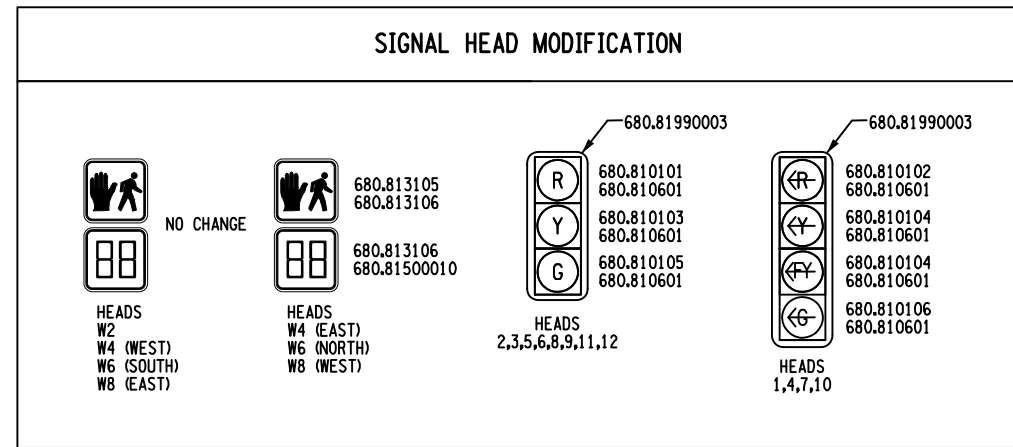
ELECTRICAL SPECIALTY WORK NOTES:

ITEM 690.11000105- SPECIALTY WORK (ELECTRICAL). (EXTRA WORK FOR OH ELECTRIC FROM POWER SOURCE, DOWN TO CONTROLLER) SHALL INCLUDE THE FOLLOWING:

SW QUADRANT: REMOVE EXISTING POWER CABLE FROM CONNECTION TO POWER SOURCE AT THE POLE TO THE CONTROLLER, AND ANY CABLE CONNECTION WORK AT THE POWER SOURCE AND THE CONTROLLER. ALSO INCLUDES ANY INCIDENTAL WORK AND MATERIALS THAT ARE REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION OF THE ELECTRIC METER UNDER ITEM 680.95600004.

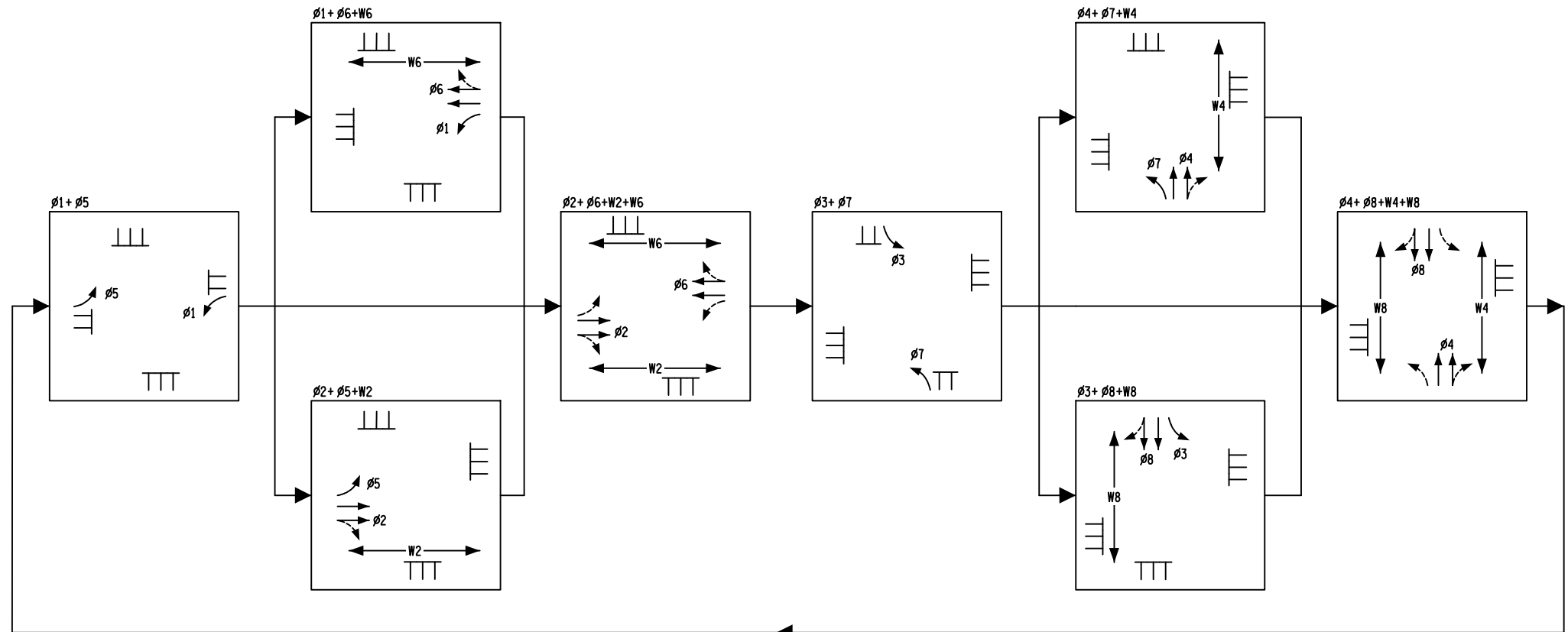
WIRING NOTES:

1. PEDESTRIAN SIGNAL CABLES SHALL BE CONNECTED TO AVAILABLE SWITCH PACK TERMINALS WITHIN THE CONTROLLER CABINET AND COORDINATED WITH THE APPROPRIATE VEHICULAR PHASE.



NOTES:

1. UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON, A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" WITH COUNTDOWN TIMER INDICATION, FOLLOWED BY A STEADY "HAND" INDICATION WILL BE DISPLAYED.
2. UNDER ITEM 680.80324515, NYS DOT WILL SUPPLY THE SIGNAL CONTROLLER, CABINET AND CABINET BASE. THE CONTRACTOR SHALL INSTALL THE CABINET. NYS DOT WILL INSTALL THE CONTROLLER, PERIPHERAL EQUIPMENT, AND SOFTWARE. CONTACT MARK SORGI OR JOHN RYAN AT 716-649-1426 AT LEAST 3 DAYS IN ADVANCE TO COORDINATE.



- ø1 SB - SB LEFT (US 62)
- ø6 SB - SB THROUGH / RIGHT (US 62)
- ø5 NB - NB LEFT (US 62)
- ø2 NB - NB THROUGH / RIGHT (US 62)
- ø7 WB - WB LEFT (E. ROBINSON RD)
- ø4 WB - WB THROUGH / RIGHT (E. ROBINSON RD)
- ø3 EB - EB LEFT (E. ROBINSON RD)
- ø8 EB - EB THROUGH / RIGHT (E. ROBINSON RD)
- W2 - WB APPROACH CROSSING
- ø4 - SB APPROACH CROSSING
- W6 - EB APPROACH CROSSING
- W8 - NB APPROACH CROSSING

PHASING SEQUENCE

AFFIX SEAL: ON: ALTERED BY: ON:

DRAFT NOT FOR CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL					SIGNAL NO. 225 U.S. (NIAGARA FALLS BLVD.) AND EAST ROBINSON ROAD	
					DRAWING NO. TSD-32	
					SHEET NO. 110	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

FILE NAME = **SYTIME**
 DATE/TIME = DGN\$SYTIME0123456
 USER = DGN\$USERNAME
 DESIGN SUPERVISOR = J. MORRISSEY
 JOB MANAGER = S. GEORGE
 DESIGN = J. DEORDIO
 CHECK = D. STANSBURY
 DRAFTING = K. McARDELL
 CHECK = D. STANSBURY
 PROJECT MANAGER = D. BORCZ

OPERATIONS SCHEDULE																	
PHASE	FACE	SB			NB			WB			EB			PEDESTRIAN HEADS			
		1	2	3	4	5	6	7	8	9	10	11	12	W2	W4	W6	W8
Ø1 + Ø5		←G	R	R	←G	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
(Ø1 + Ø5) YELLOW CLEAR		←Y	R	R	←Y	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
(Ø1 + Ø5) RED CLEAR		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø2 + Ø5 + W2		R	R	R	←G	G	G	←R	R	R	←R	R	R	W/FDW	DW	DW	DW
(Ø2 + Ø5) YELLOW CLEAR		R	R	R	←Y	Y	Y	←R	R	R	←R	R	R	DW	DW	DW	DW
(Ø2 + Ø5) RED CLEAR		R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø1 + Ø6 + W6		←G	G	G	←R	R	R	←R	R	R	←R	R	R	DW	DW	W/FDW	DW
(Ø1 + Ø6) YELLOW CLEAR		←Y	Y	Y	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
(Ø1 + Ø6) RED CLEAR		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø2 + Ø6 + W2 + W6		←FY	G	G	←FY	G	G	←R	R	R	←R	R	R	W/FDW	DW	W/FDW	DW
(Ø2 + Ø6) YELLOW CLEAR		←Y	Y	Y	←Y	Y	Y	←R	R	R	←R	R	R	DW	DW	DW	DW
(Ø2 + Ø6) RED CLEAR		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø3 + Ø7		←R	R	R	←R	R	R	←G	R	R	←G	R	R	DW	DW	DW	DW
(Ø3 + Ø7) YELLOW CLEAR		←R	R	R	←R	R	R	←Y	R	R	←Y	R	R	DW	DW	DW	DW
(Ø3 + Ø7) RED CLEAR		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø4 + Ø7 + W4		←R	R	R	←R	R	R	←G	G	G	←R	R	R	DW	W/FDW	DW	DW
(Ø4 + Ø7) YELLOW CLEAR		←R	R	R	←R	R	R	←Y	Y	Y	←R	R	R	DW	DW	DW	DW
(Ø4 + Ø7) RED CLEAR		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø3 + Ø8 + W8		←R	R	R	←R	R	R	R	R	R	←G	G	G	DW	DW	DW	W/FDW
(Ø3 + Ø8) YELLOW CLEAR		←R	R	R	←R	R	R	R	R	R	←Y	Y	Y	DW	DW	DW	DW
(Ø3 + Ø8) RED CLEAR		←R	R	R	←R	R	R	R	R	R	←R	R	R	DW	DW	DW	DW
THEN																	
Ø4 + Ø8 + W4 + W8		←R	R	R	←R	R	R	←FY	G	G	←FY	G	G	DW	W/FDW	DW	W/FDW
(Ø4 + Ø8) YELLOW CLEAR		←R	R	R	←R	R	R	←Y	Y	Y	←Y	Y	Y	DW	DW	DW	DW
(Ø4 + Ø8) RED CLEAR		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DW	DW	DW	DW
EMERGENCY FLASH		←R	R	R	←R	R	R	←R	R	R	←R	R	R	DARK	DARK	DARK	DARK

- LEGEND**
- G - CIRCULAR GREEN
 - ←G - LEFT ARROW GREEN
 - G - RIGHT ARROW GREEN
 - R - CIRCULAR RED
 - ←R - LEFT ARROW RED
 - R - RIGHT ARROW RED
 - Y - CIRCULAR YELLOW
 - ←Y - LEFT ARROW YELLOW
 - Y - RIGHT ARROW YELLOW
 - ←FY - LEFT ARROW FLASHING YELLOW
 - FY - RIGHT ARROW FLASHING YELLOW
 - FR - FLASHING RED
 - FDW - FLASHING HAND (DON'T WALK)
 - DW - HAND (DON'T WALK)
 - W - MAN (WALK)

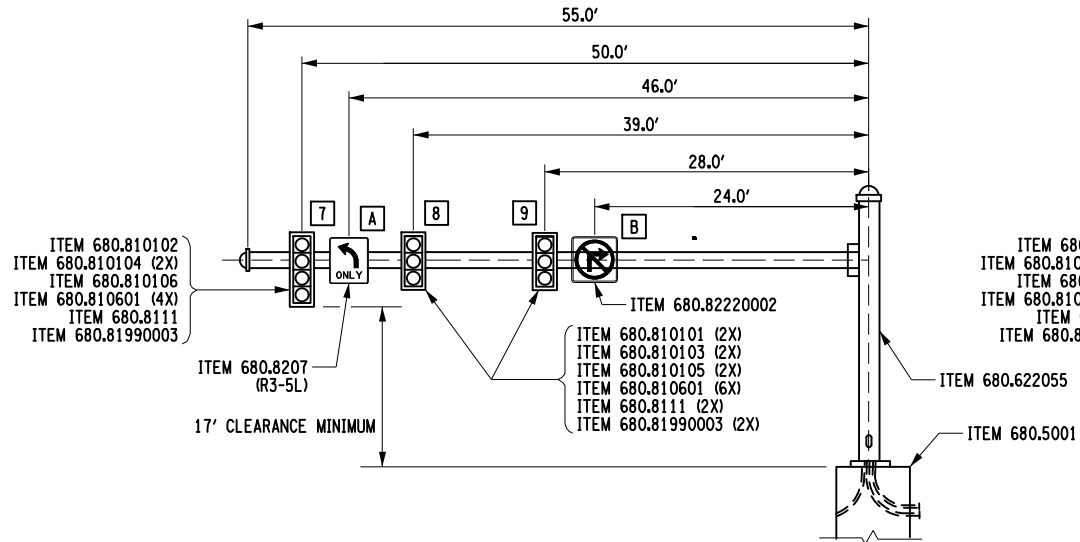
AFFIX SEAL: ON: _____

ALTERED BY: ON: _____

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NOT FOR
CONSTRUCTION

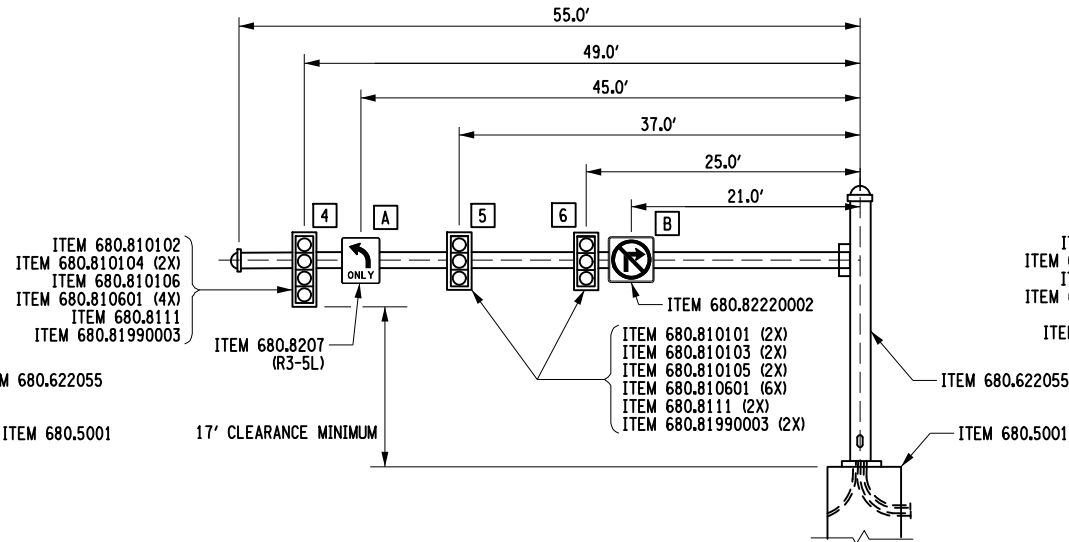
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL						SIGNAL NO. 225 U.S. (NIAGARA FALLS BLVD.) AND EAST ROBINSON ROAD
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

PROJECT MANAGER: D. BORCZ
 CHECK: D. STANSBURY
 DRAFTING: K. McARDELL
 CHECK: D. STANSBURY
 DESIGN: J. DEORDIO
 JOB MANAGER: S. GEORGE
 DESIGN SUPERVISOR: J. MORRISSEY



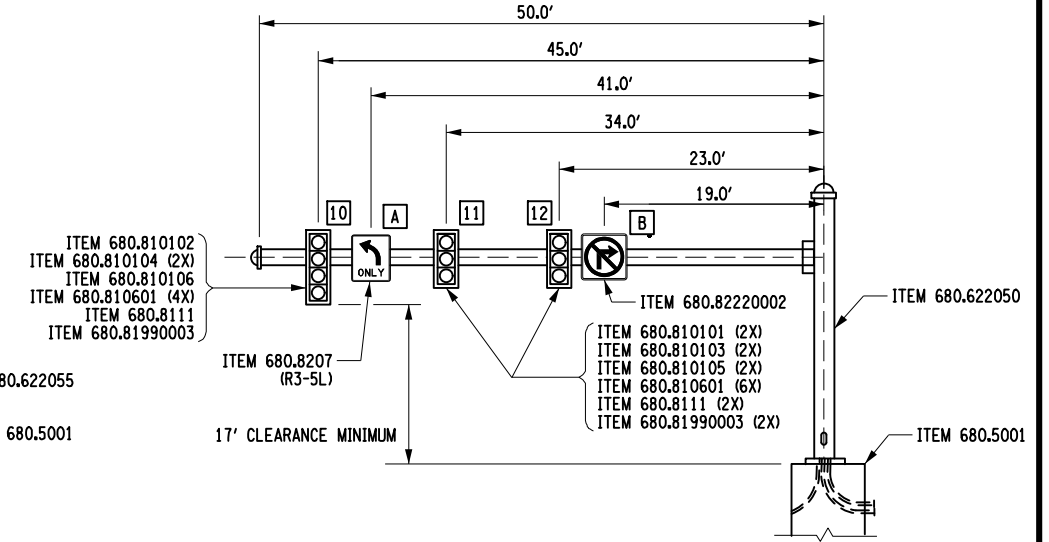
MAST ARM LAYOUT - POLE #1, EAST ROBINSON WB APPROACH

NOT TO SCALE



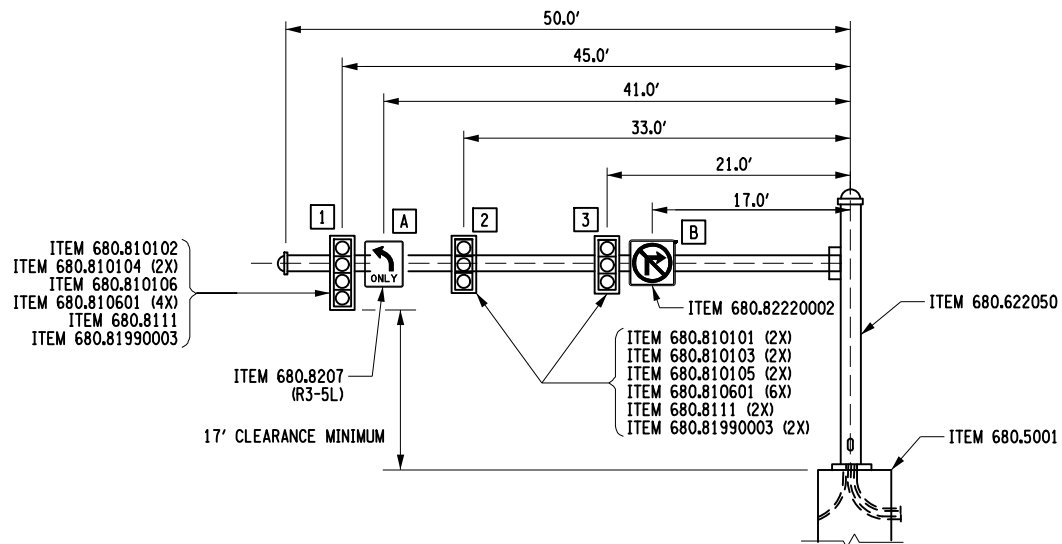
MAST ARM LAYOUT - POLE #2, US 62 (NIAGARA FALLS BOULEVARD) NB APPROACH

NOT TO SCALE



MAST ARM LAYOUT - POLE #3, EAST ROBINSON EB APPROACH

NOT TO SCALE



MAST ARM LAYOUT - POLE #4, US 62 (NIAGARA FALLS BOULEVARD) SB APPROACH

NOT TO SCALE

POLE NUMBER	1	2	3	4
MOUNTING HEIGHT (FT)	20	20	20	20
MAST ARM LENGTH (FT)	55	55	50	50
FOOTING MOMENT (FT-KIP)	129	143	124	140
FOUNDATION CODE	9	10	9	10
LIGHTING ARM MOUNTING HEIGHT (FT)	N/A	N/A	N/A	N/A
LIGHTING ARM SPAN (FT)	N/A	N/A	N/A	N/A

ALL SIGNAL POLE FOUNDATIONS SHALL BE SQUARE PER NYSDOT STANDARD DETAILS.

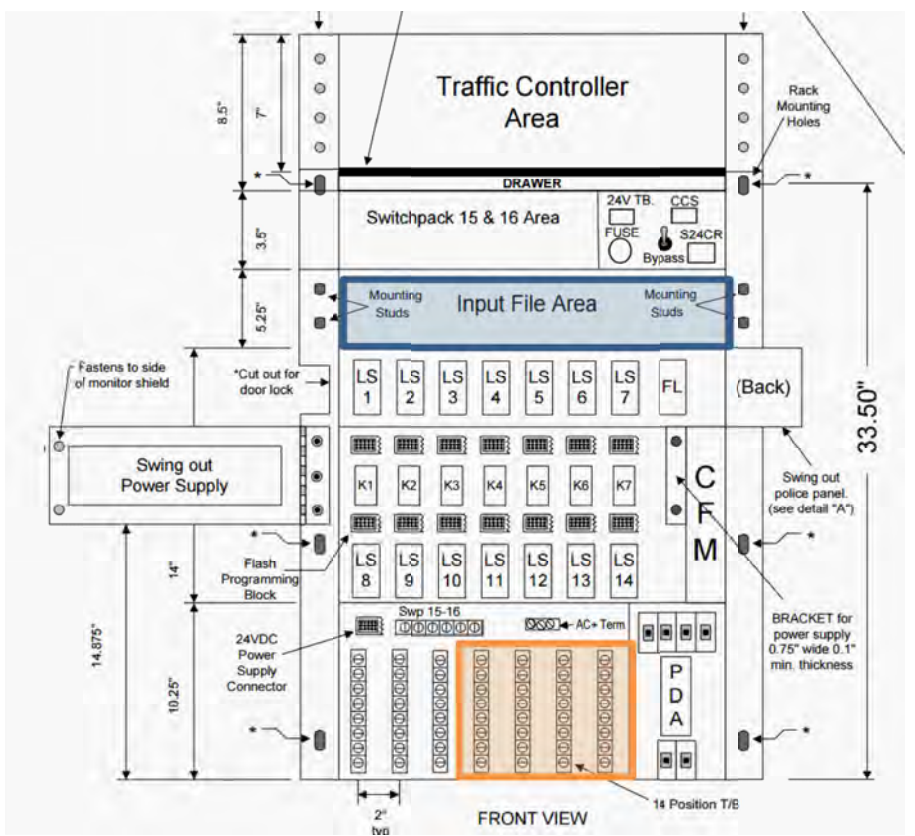
ITEM NUMBER	LOCATION	TEXT	MUTCD	MOUNTING
680.8207	A	ONLY 30"x36"	R3-5L	MAST ARM TYPE G
680.82220002	B	BLANKOUT SIGN 36"x36"	R3-1	MAST ARM TYPE G

AFFIX SEAL: ON: _____

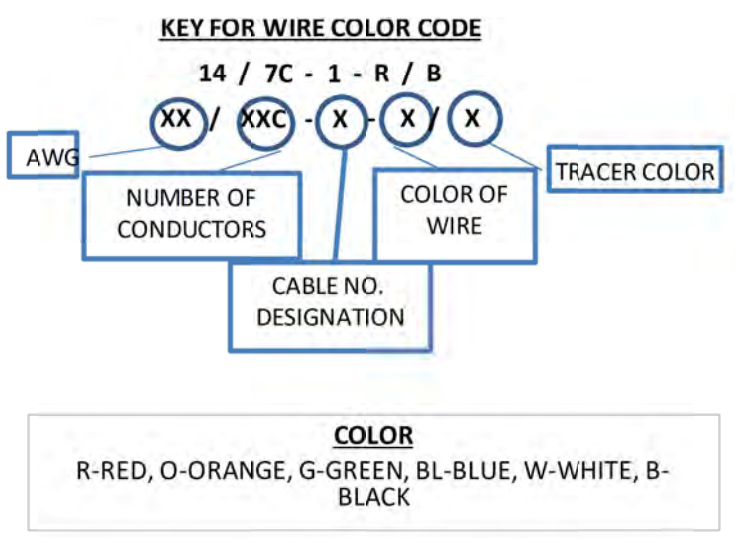
ALTERED BY: ON: _____

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SIGNAL 225



SIGNAL OPERATIONS SPECIFICATIONS									
TABLE OF INPUT WIRING									
SIGNAL NUMBER		225		COUNTY		ERIE		INTERSECTION US 62 @ EAST ROBINSON ROAD	
INPUT FILE AREA		FUNCTION		DETECTOR LOCATION ID		TERMINAL WIRING BOARD			
SLOT	TYPE	(Φ#/PED #)	DESCRIPTION	(PER PLAN)		TERMINAL	WIRE COLOR CODE		
1 - TOP	222	Ø2	NBT US 62	2A	2B	1A	SLI-1-W		
						1B	SLI-1-B		
1 - BOTTOM	222	Ø2	NBT/R US 62	2C	2D	2A	SLI-2-W		
						2B	SLI-2-B		
2 - TOP	222	Ø2	NBT US 62	2E		3A	SLI-3-W		
						3B	SLI-3-B		
2 - BOTTOM	222	Ø2	NBT US 62	2F		4A	SLI-4-W		
						4B	SLI-4-B		
3 - TOP	222	Ø6	SBT US 62	6A	6B	5A	SLI-5-W		
						5B	SLI-5-B		
3 - BOTTOM	222	Ø6	SBT/R US 62	6C	6D	6A	SLI-6-W		
						6B	SLI-6-B		
4 - TOP	222	Ø6	SBT US 62	6E		7A	SLI-7-W		
						7B	SLI-7-B		
4 - BOTTOM	222	Ø6	SBT US 62	6F		8A	SLI-8-W		
						8B	SLI-8-B		
5 - TOP	222	Ø1	SBL US 62	1A	1B	9A	SLI-9-W		
						9B	SLI-9-B		
5 - BOTTOM	222	Ø5	NBL US 62	5A	5B	10A	SLI-10-W		
						10B	SLI-10-B		
6 - TOP	222	Ø4	WBT ROBINSON	4A	4B	11A	SLI-11-W		
						11B	SLI-11-B		
6 - BOTTOM	222	Ø4	WBT/R ROBINSON	4C	4D	12A	SLI-12-W		
						12B	SLI-12-B		
7 - TOP	222	Ø8	EBT ROBINSON	8A	8B	13A	SLI-13-W		
						13B	SLI-13-B		
7 - BOTTOM	222	Ø8	EBT/R ROBINSON	8C	8D	14A	SLI-14-W		
						14B	SLI-14-B		
8 - TOP	222	Ø3	EBL ROBINSON	3A	3B	15A	SLI-15-W		
						15B	SLI-15-B		
8 - BOTTOM	222	Ø7	WBL ROBINSON	7A	7B	16A	SLI-16-W		
						16B	SLI-16-B		
9 - TOP						17A			
9 - BOTTOM						17B			
10 - TOP						18A			
10 - BOTTOM						18B			
11 - TOP						19A			
11 - BOTTOM						19B			
12 - TOP						20A			
12 - BOTTOM						20B			
13 - TOP	242	W2	NB APPROACH CROSSING	W2-1	W2-2	21A			
						21B			
13 - BOTTOM	242	W6	SB APPROACH CROSSING	W6-1	W6-2	22A			
						22B			
14 - TOP	242	W4	WB APPROACH CROSSING	W4-1	W4-2	23A			
						23B			
14 - BOTTOM	242	W8	EB APPROACH CROSSING	W8-1	W8-2	24A			
						24B			
						25A	14/SC-W21-O	14/SC-W22-O	
						25B	14/SC-W21-B	14/SC-W22-B	
						26A	14/SC-W61-O	14/SC-W62-O	
						26B	14/SC-W61-B	14/SC-W62-B	
						27A	14/SC-W41-O	14/SC-W42-O	
						27B	14/SC-W41-B	14/SC-W42-B	
						28A	14/SC-W81-O	14/SC-W82-O	
						28B	14/SC-W81-B	14/SC-W82-B	

AFFIX SEAL: ON: _____ ALTERED BY: ON: _____

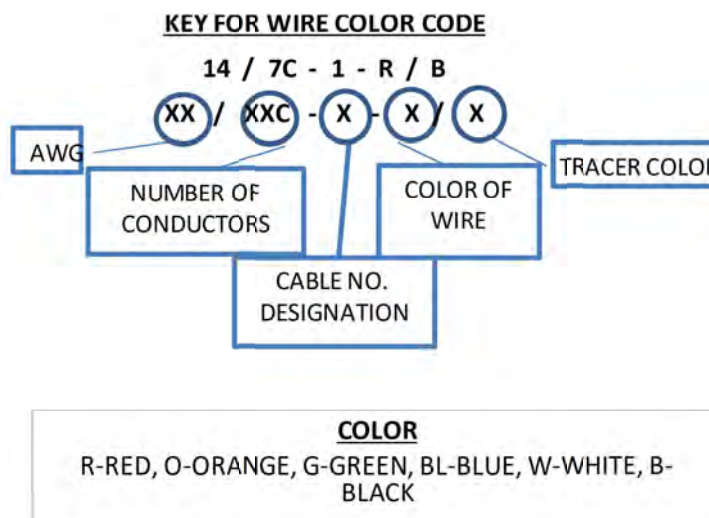
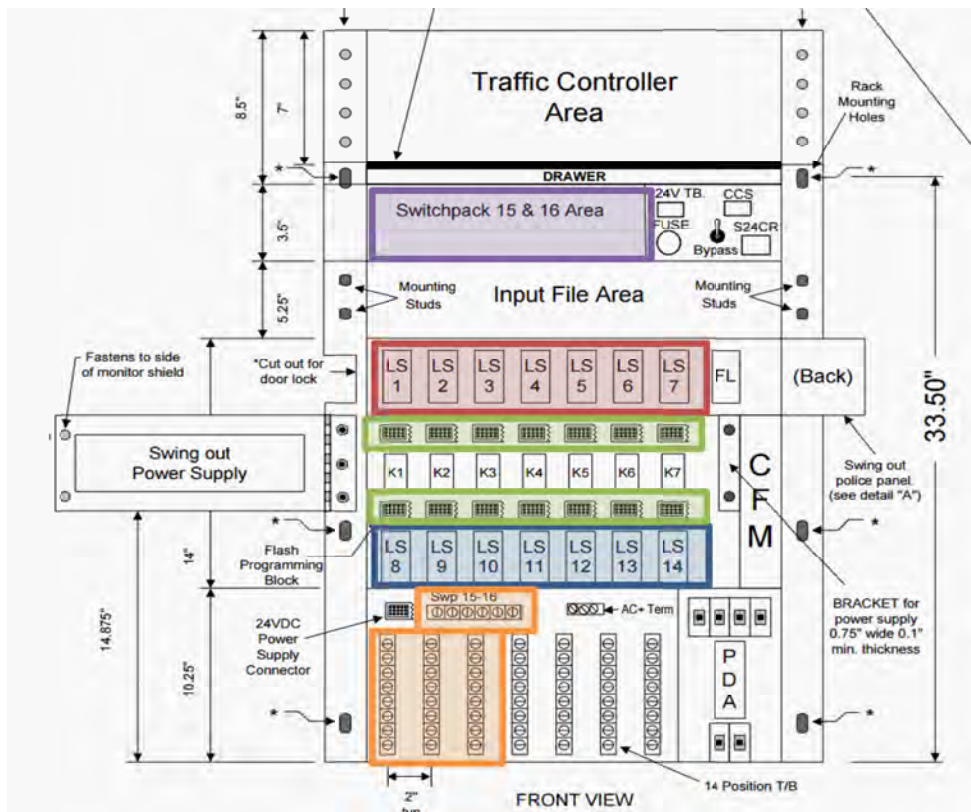
DRAFT
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CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN U.S. 62 & 950K FROM KENMORE AVENUE TO ADMIRALS WALK TOWNS OF AMHERST & TONAWANDA COUNTY: ERIE REGION: 5	PIN 5308.38 US ROUTE 62 & NY 950K	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC SIGNAL DETAIL					SIGNAL NO. 225 U.S. (NIAGARA FALLS BLVD.) AND EAST ROBINSON ROAD	
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SIGNAL 225

SIGNAL OPERATIONS SPECIFICATIONS
TABLE OF SWITCH PACKS

DATE: 2/26/2020



LEGEND

INDICATIONS

G	= CIRCULAR GREEN	Y	= CIRCULAR YELLOW	R	= CIRCULAR RED
←G	= LEFT GREEN ARROW	←Y	= LEFT YELLOW ARROW	←R	= LEFT RED ARROW
→G	= RIGHT GREEN ARROW	→Y	= RIGHT YELLOW ARROW	→R	= RIGHT RED ARROW
↑G	= VERT. GREEN ARROW	←FY	= FLASHING YELLOW ARROW	WALK	=HAND/MAN
←G-G→	= DUAL GREEN OUTPUT RT OVLP	←Y-Y→	= DUAL YELLOW OUTPUT RT OVLP	DONT WALK	=FLASHING HAND/COUNT DOWN TIMER

FLASH PLUG

W	=DARK
R	=FLASH RED
Y	=FLASH YELLOW

SIGNAL NUMBER	SWITCH PACK	FUNCTION (Φ#/OVLP)	225		COUNTY	ERIE	INTERSECTION	US 62 @ EAST ROBINSON ROAD				
			FACE NUMBERS					FLASH PLUG	INDICATIONS	TERMINAL WIRING BOARD		
			TERMINAL	TERMINAL						TERMINAL	WIRE COLOR CODE PER FACE	
SP 1	Φ1	SBL / US 62	1			R	←R	SP 1R	14/SC-1-R			
							←Y	SP 1Y	14/SC-1-O			
							←G	SP 1G	14/SC-1-G			
							GND. BAR	GND. BUS	14/SC-1-W			
SP 2	Φ2	NBT/R / US 62	5	6		R	R	SP 2R	14/SC-5-R	14/SC-6-R		
							Y	SP 2Y	14/SC-5-O	14/SC-6-O		
							G	SP 2G	14/SC-5-G	14/SC-6-G		
							GND. WIRE	GND. BUS	14/SC-5-W	14/SC-6-W		
SP 3	Φ3	EBL / ROBINSON	10			R	←R	SP 3R	14/SC-10-R			
							←Y	SP 3Y	14/SC-10-O			
							←G	SP 3G	14/SC-10-G			
							GND. BAR	GND. BUS	14/SC-10-W			
SP 4	Φ4	WBT/R / ROBINSON	8	9		R	R	SP 4R	14/SC-8-R	14/SC-9-R		
							Y	SP 4Y	14/SC-8-O	14/SC-9-O		
							G	SP 4G	14/SC-8-G	14/SC-9-G		
							GND. BAR	GND. BUS	14/SC-8-W	14/SC-9-W		
SP 5	Φ5	NBL / US 62	4			R	←R	SP 5R	14/SC-4-R			
							←Y	SP 5Y	14/SC-4-O			
							←G	SP 5G	14/SC-4-G			
							GND. BAR	GND. BUS	14/SC-4-W			
SP 6	Φ6	SBT/R / US 62	2	3		R	R	SP 6R	14/SC-2-R	14/SC-3-R		
							Y	SP 6Y	14/SC-2-O	14/SC-3-O		
							G	SP 6G	14/SC-2-G	14/SC-3-G		
							GND. BAR	GND. BUS	14/SC-2-W	14/SC-3-W		
SP 7	Φ7	WBL / ROBINSON	7			R	←R	SP 7R	14/SC-7-R			
							←Y	SP 7Y	14/SC-7-O			
							←G	SP 7G	14/SC-7-G			
							GND. BAR	GND. BUS	14/SC-7-W			
SP 8	Φ8	EBT/R / ROBINSON	11	12		R	R	SP 8R	14/SC-11-R	14/SC-12-R		
							Y	SP 8Y	14/SC-11-O	14/SC-12-O		
							G	SP 8G	14/SC-11-G	14/SC-12-G		
							GND. BAR	GND. BUS	14/SC-11-W	14/SC-12-W		
SP 9	Φ9	SBL / US 62	1			---	SP 9R					
							SP 9Y					
							←FY	SP 9G	14/SC-1-B			
							GND. WIRE	GND. BUS				
SP 10	Φ10	EBL / ROBINSON	10			---	SP 10R					
							SP 10Y					
							←FY	SP 10G	14/SC-10-B			
							GND. WIRE	GND. BUS				
SP 11	Φ11	NBL / US 62	4			---	SP 11R					
							SP 11Y					
							←FY	SP 11G	14/SC-4-B			
							GND. WIRE	GND. BUS				
SP 12	Φ12	WBL / ROBINSON	7			---	SP 12R					
							SP 12Y					
							←FY	SP 12G	14/SC-7-B			
							GND. WIRE	GND. BUS				
SP 13	W2 NB	ROBINSON	W2-1	W2-2		W	WALK	SP 13R	14/SC-13-R	14/SC-14-R	14/3C-21-R	
							LED R3-1R	SP 13Y				
							DON'T WALK	SP 13G	14/SC-13-G	14/SC-14-G		
							GND. WIRE	GND. BUS	14/SC-13-W	14/SC-14-W	14/3C-21-W	
SP 14	W4 WB	US 62	W4-1	W4-2		W	WALK	SP 14R	14/SC-15-R	14/SC-16-R		
							LED R3-1R	SP 14Y			14/3C-22-R	
							DON'T WALK	SP 14G	14/SC-15-G	14/SC-16-G		
							GND. WIRE	GND. BUS	14/SC-15-W	14/SC-16-W	14/3C-22-W	
SP 15	W6 SB	ROBINSON	W6-1	W6-2		W	WALK	SP 15R	14/SC-17-R	14/SC-18-R		
							LED R3-1R	SP 15Y			14/3C-23-R	
							DON'T WALK	SP 15G	14/SC-17-G	14/SC-18-G		
							GND. WIRE	GND. BUS	14/SC-17-W	14/SC-18-W	14/3C-23-W	
SP 16	W8 EB	US 62	W8-1	W8-2		W	WALK	SP 16R	14/SC-19-R	14/SC-20-R		
							LED R3-1R	SP 16Y			14/3C-24-R	
							DON'T WALK	SP 16G	14/SC-19-G	14/SC-20-G		
							GND. WIRE	GND. BUS	14/SC-19-W	14/SC-20-W	14/3C-24-W	

AFFIX SEAL: ON: ALTERED BY: ON:

DRAFT NOT FOR CONSTRUCTION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	NIAGARA FALLS BOULEVARD PEDESTRIAN SAFETY DESIGN	PIN 5308.38	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	U.S. 62 & 950K	US ROUTE 62 & NY 950K			TRAFFIC SIGNAL DETAIL	DRAWING NO. TSD-36
	FROM KENMORE AVENUE TO ADMIRALS WALK					SHEET NO. 114
	TOWNS OF AMHERST & TONAWANDA					
	COUNTY: ERIE	REGION: 5				

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

