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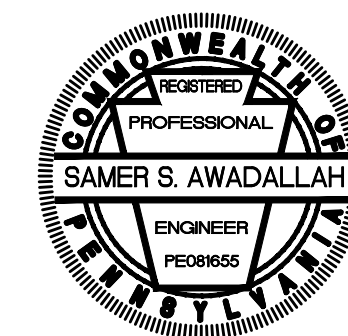
HORIZONTAL

SCALE

DESIGN DESIGNATION

DESIGNED BY: <u>LMM</u>	DRAWN BY: <u>LMM</u>	CHECKED BY: <u>SSA</u>
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PREPARED BY:		DATE: _____
CT CONSULTANTS, INC. 3875 EMBASSY PARKWAY SUITE 200 AKRON, OHIO 44333		DISTRICT EXECUTIVE



Siva Pahl

RECOMMEND _____ DATE: _____

DISTRICT EXECUTIVE

APPROVED _____ DATE: _____

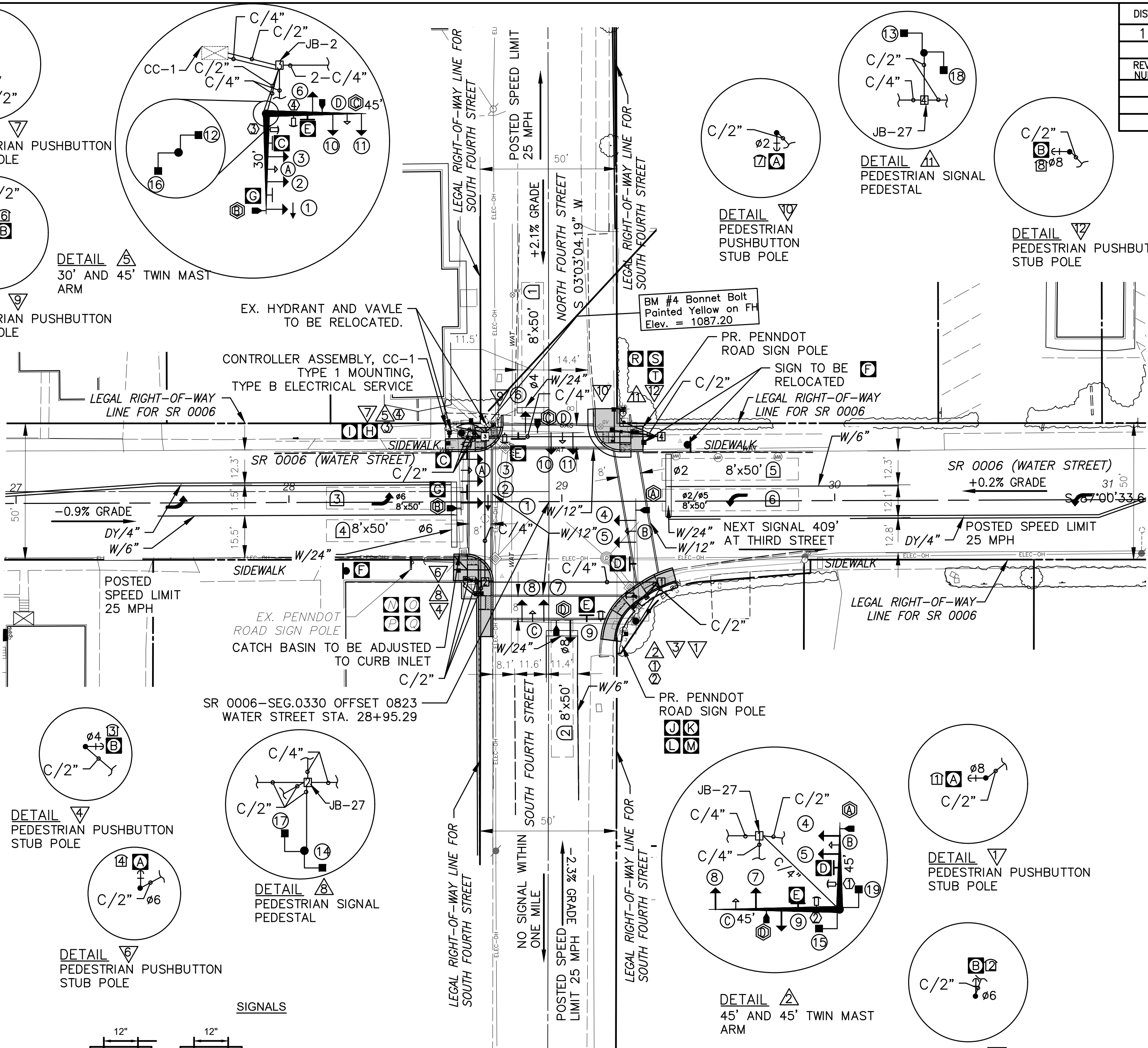
BOROUGH – CONNEAUT LAKE, PA

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
1—0	CRAWFORD	SR 0006	T12	2 OF 9	
BOROUGH OF CONNEAUT LAKE					
REVISION NUMBER	REVISIONS			DATE	BY

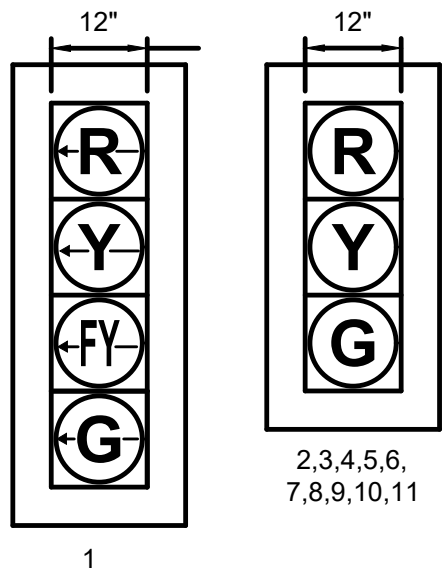
SIGNS

SIGN	STANDARD	DESCRIPTION	SIZE	QTY.
A	R10-3EL	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER ←	9" x 15"	4
B	R10-3ER	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER →	9" x 15"	4
C	D3-5	← S Fourth St N Fourth St →	84" x 28"	1
D	D3-5	← N Fourth St S Fourth St →	84" x 28"	1
E	D3-4	Water St	50" x 16"	2
F	R3-7L	Left Lane Must Turn Left	30" x 30"	1
G	R10-12A	Left Turn Yield On Flashing Yellow Arrow	30" x 36"	1

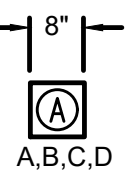
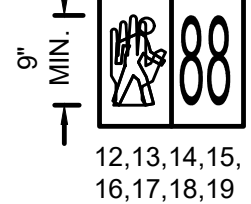
WHITE REFLECTORIZED LEGEND AND BORDER ON GREEN REFLECTORIZED BACKGROUND;
12-INCH UPPERCASE, 9-INCH LOWER CASE LEGEND



SIGNALS



TYPE A PEDESTRIAN COUNTDOWN ONE-SECTION



LEGEND

- CC-1 - CONTROLLER ASSEMBLY
- MAST ARM POLE
- PEDESTRIAN SIGNAL PEDESTAL
- PEDESTRIAN PUSHBUTTON STUB POLE
- VEHICULAR SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- SIGN
- RADAR DETECTOR
- EMERGENCY PREEMPTION DETECTOR
- EMERGENCY PREEMPTION CONFIRMATION LIGHT

- PEDESTRIAN PUSHBUTTON, SIGN
- RADAR DETECTION ZONE
- CONDUIT/SIZE
- JUNCTION BOX
- SOLID WHITE LINE/WIDTH
- SOLID DOUBLE YELLOW LINE/WIDTH
- LIGHT POLE
- POST MOUNTED SIGN

SIGNAL ASSEMBLY NOTES:

- ALL VEHICULAR SIGNALS EQUIPPED WITH CUT-AWAY VISORS AND METALLIC BACKPLATES WITH 2" RETRO-REFLECTIVE FLUORESCENT YELLOW BORDER.
- ALL PEDESTRIAN SIGNAL HEADS EQUIPPED WITH TUNNEL VISORS
- CONFIRMATION LIGHTS A,B,C AND D EQUIPPED WITH CUT-AWAY VISORS
- MIN/MAX HEIGHT FOR VEHICULAR SIGNALS 17'/18'.
- MIN/MAX HEIGHT FOR PEDESTRIAN SIGNALS 9'/10'.
- MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNAL HEADS 8'.
- FINAL SIGNAL HEAD PLACEMENT TO BE CONFIRMED BY A REPRESENTATIVE OF THE DISTRICT TRAFFIC UNIT PRIOR TO SIGNAL TURN ON.
- PROVIDE AIRCRAFT TYPE STRANDED CABLE FOR MOUNTING SIGNAL AND SIGN BRACKET ASSEMBLIES TO MAST ARMS.

DESIGNED BY: LMM DRAWN BY: LMM CHECKED BY: SSA

TRAFFIC SIGNAL PLAN

COUNTY: CRAWFORD
MUNICIPALITY: BOROUGH OF CONNEAUT LAKE
INTERSECTION OF:
S.R. 0006 (WATER STREET) AND
N FOURTH STREET/S FOURTH STREET

APPROVED AND ACCEPTED:

MUNICIPAL OFFICIAL DATE:

RECOMMENDED:

DISTRICT TRAFFIC ENGINEER DATE:



MOVEMENT, PHASING, AND SEQUENCE DIAGRAM

FULLY ACTUATED
NEMA CONTROLLER
ASSEMBLY WITH GPS
UNIT, GENERATOR
ADAPTER KIT,
POLICE ACCESS
PANEL, AND
MANUAL CORD

FULLY ACTUATED NEMA CONTROLLER ASSEMBLY WITH GPS UNIT, GENERATOR ADAPTER KIT, POLICE ACCESS PANEL, AND MANUAL CORD	NORMAL OPERATION												EMERGENCY VEHICLE PREEMPTION												EMERGENCY FLASHING						
	PHASE 2 + 5				PHASE 2 + 6				PHASE 4 + 8				PREEMPT 2 + 5				PREEMPT 6				PREEMPT 4					PREEMPT 8					
	INTERVAL				INTERVAL				INTERVAL				INTERVAL				INTERVAL				INTERVAL					INTERVAL					
	SIGNAL	1	2	3	4	1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4			1	2	3	4	
1	←G	←G	←Y	←R	←FY	←FY	Y	R		R	R	R	R			←G	←Y	←R			R	R	R		R	R	R	R		R	
2,3	G	G	Y	R	G	G	Y	R		R	R	R	R			G	Y	R			R	R	R		R	R	R	R		R	
4,5	R	R	R	R	G	G	Y	R		R	R	R	R		S C	R	R	R			S C	R	R	R		S C	R	R	R		R
6,7,8	R	R	R	R	R	R	R	R		G	G	Y	R		E L	R	R	R			E L	G	Y	R		E L	R	R	R		R
9,10,11	R	R	R	R	R	R	R	R		G	G	Y	R		L E	R	R	R			L E	R	R	R		L E	G	Y	R		R
12,13	W	FD	DW	DW	W	FD	DW	DW		DW	DW	DW	DW		E A	DW	DW	DW			E A	DW	DW	DW		E A	DW	DW	DW		OFF
14,15	DW	DW	DW	DW	W	FD	DW	DW		DW	DW	DW	DW		C R	DW	DW	DW			C R	DW	DW	DW		C R	DW	DW	DW		OFF
16,17*	DW	DW	DW	DW	DW	DW	DW	DW		W	FD	DW	DW		T A	DW	DW	DW			T A	DW	DW	DW		T A	DW	DW	DW		OFF
18,19*	DW	DW	DW	DW	DW	DW	DW	DW		W	FD	DW	DW		I N	DW	DW	DW			I N	DW	DW	DW		I N	DW	DW	DW		OFF
A	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		OFF	OFF	OFF	OFF		V C	ON	OFF	OFF			V C	OFF	OFF	OFF		V C	OFF	OFF	OFF		OFF
B	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		OFF	OFF	OFF	OFF		E E	OFF	OFF	OFF			E E	ON	OFF	OFF		E E	OFF	OFF	OFF		OFF
C	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		OFF	OFF	OFF	OFF			OFF	OFF	OFF				ON	OFF	OFF			OFF	OFF	OFF		OFF
D	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		OFF	OFF	OFF	OFF			OFF	OFF	OFF				OFF	OFF	OFF			ON	OFF	OFF		OFF

- * UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE "DON'T WALK" AT ALL TIMES.
- ① G IF FOLLOWED BY PHASE 2+6
- ② G IF FOLLOWED BY PHASE 2+6
- ③ 2 SECOND DELAY TO START OF FLASHING YELLOW ARROW

PHASING TIMING

PHASES	1	2	3	4	5	6	7	8
MIN GREEN	—	10	—	5	5	10	—	5
ADVANCE WALK	—	—	—	—	—	—	—	—
WALK	—	7	—	7	—	7	—	7
PED CLEARANCE	—	14	—	15	—	14	—	15
PASSAGE	—	3	—	3	3	3	—	3
MAXIMUM 1	—	35	—	35	10	35	—	35
MAXIMUM 2	—	—	—	—	—	—	—	—
YELLOW	—	3	—	3	3	3	—	3
RED	—	2.5	—	2.5	2.5	2.5	—	2.5
MIN RECALL	—	X	—	—	—	X	—	—
MAX RECAL	—	—	—	—	—	—	—	—
SOFT RECALL	—	—	—	—	—	—	—	—
PED RECALL	—	—	—	—	—	—	—	—
REST IN WALK	—	X	—	—	—	X	—	—
DUAL ENTRY	—	—	—	X	—	—	—	X
MEMORY	NL	—	—	NL	NL	—	—	NL

PREEMPTION

TYPE	EVP	EVP	EVP	EVP
FAILSAFE SIGNAL	A	B	C	D
DWELL PHASE	ø2&ø5	ø6	ø4	ø8
PREEMPT MIN	10	10	10	10
PREEMPT MAX	60	60	60	60
EXIT PHASE	ø4&ø8	ø4&ø8	ø2&ø6	ø2&ø6

COORDINATION PATTERNS

SPLIT PATTERN	CYCLE LENGTH	OFFSET	SPLITS								COORD PHASES	REMARKS
			1	2	3	4	5	6	7	8		
1	75	54	—	26	—	22	10	26	—	22	2 6	
4	75	54	—	25	—	24	9	25	—	24	2 6	
2	95	90	—	34	—	28	16	34	—	28	2 6	
3	90	73	—	33	—	22	18	33	—	22	2 6	
2	95	90	—	32	—	26	15	32	—	26	2 6	
FREE	—	—	—	—	—	—	—	—	—	—		

NOTES:
OFFSET IS REFERENCED TO THE BEGINNING OF PHASES 2&6 INTERVAL 3 (YELLOW).
UNUSED GREEN TIME FOR PHASES 4&8 WILL BE PROVIDED TO PHASE 2.

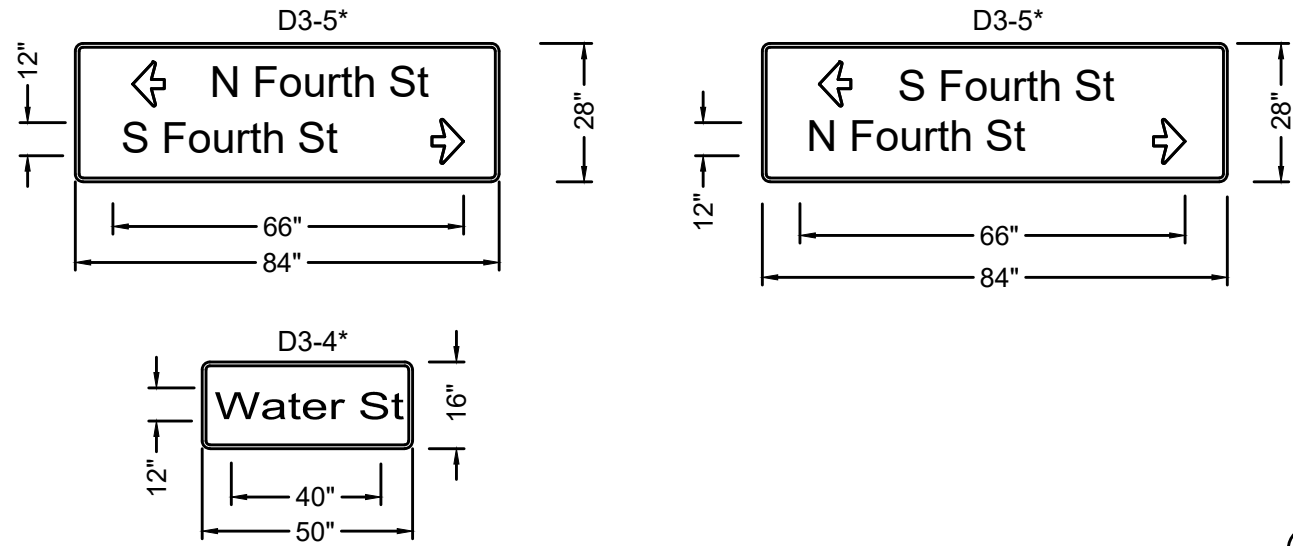
DAY PLAN/EVENT

DAY PLAN					1	
DAY OF WEEK						
Su	M	Tu	W	Th	F	Sa
	X	X	X	X	X	
EVENT		ACTION PLAN		START TIME		
1		1		06:00		
2		2		10:00		
3		3		15:00		
4		2		19:00		
5		100		23:00		
6						

DAY PLAN/EVENT

DAY PLAN					2	
DAY OF WEEK						
Su	M	Tu	W	Th	F	Sa
X						X
EVENT		ACTION PLAN		START TIME		
1		4		09:00		
2		100		23:00		
3						
4						
5						
6						

SIGN DETAIL



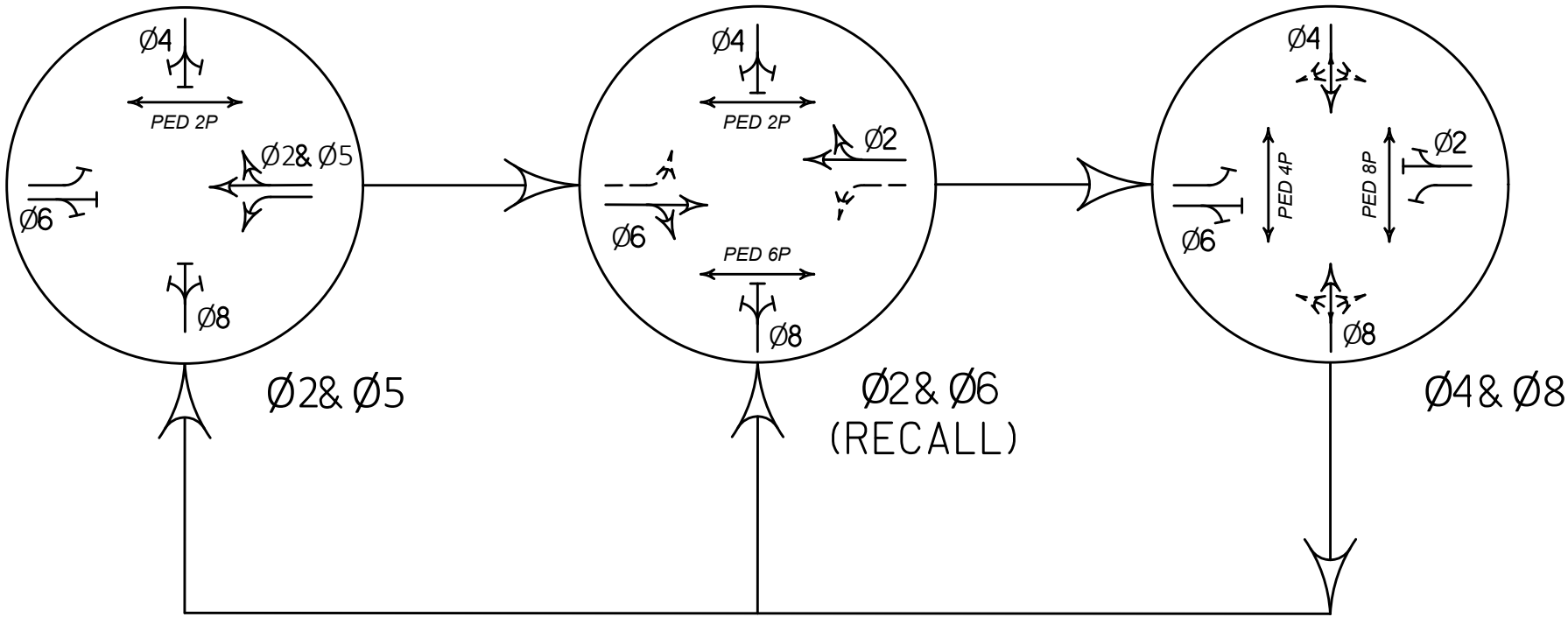
NOTE:
LEGEND, ARROWS AND BORDER: WHITE (REFLECTORIZED)
BACKGROUND: GREEN (REFLECTORIZED)
FONT: 12" UPPER CASE AND 9" LOWER CASE CLEARVIEW 3W

CONTROLLER COORDINATED WITH ADJACENT CONTROLLERS
UTILIZING PROPOSED GPS CLOCK IN THE CONTROLLER FOR
WATER ST. AND FOURTH ST. INTERSECTION.

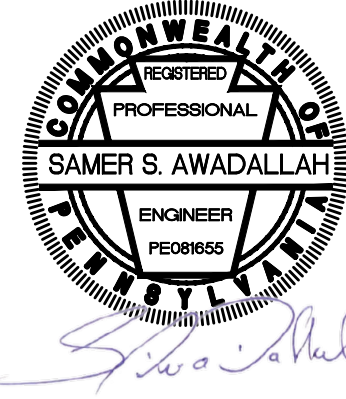
DETECTION ZONE INFORMATION

DETECTOR	DETECTION ZONE (S)	MODE	TYPE	LOCATION MAST ARM
②	①	PRESENCE	RADAR (STOP BAR)	②
④	②	PRESENCE	RADAR (STOP BAR)	③
①	③	PRESENCE	RADAR (STOP BAR)	②
①	④	PRESENCE	RADAR (STOP BAR)	②
③	⑤	PRESENCE	RADAR (STOP BAR)	③
③	⑥	PRESENCE	RADAR (STOP BAR)	③

PHASING DIAGRAM



* WIRING DETERMINED
BY MANUFACTURER



COUNTY: CRAWFORD
MUNICIPALITY: BOROUGH OF CONNEAUT LAKE
INTERSECTION OF:
S.R. 0006 (WATER STREET) AND
N FOURTH STREET/S FOURTH STREET

APPROVED AND ACCEPTED:

MUNICIPAL OFFICIAL _____ DATE: _____

RECOMMENDED:

DISTRICT TRAFFIC ENGINEER _____ DATE: _____

NOT TO SCALE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
1-0	CRAWFORD	SR 0006	T12	4 OF 9	
BOROUGH OF CONNEAUT LAKE					
REVISION NUMBER	REVISIONS			DATE	BY

ITEM NUMBER	MISCELLANEOUS			
UNIT	DESCRIPTION	QTY.	REMARKS	LOCATION
4952 1040	NEMA TS-2; TYPE 2 CONTROLLER ASSEMBLY, TYPE 1 MOUNTING, ●	1	WITH MANUAL CORD	☒ CC2 (28+59.66, 27' L)
EACH	WITH GPS ANTENNA			
0955 3208	VEHICULAR SIGNAL HEAD, THREE 12" SECTIONS	10	② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪	△ ₂ △ ₅
EACH				
0955 3209	VEHICULAR SIGNAL HEAD, FOUR 12" SECTIONS	1	①	△ ₅
EACH				
9000 1024	RELOCATE EXISTING FIRE HYDRANT ●	1		28+58.91, 25' L
EACH				
0955 3722	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, TYPE A	8	⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲	△ ₂ △ ₅ △ ₈ △ ₁₁
EACH				
0956 0500	PEDESTRIAN PUSH BUTTON	8	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▽ ₁ ▽ ₃ ▽ ₄ ▽ ₆ ▽ ₇ ▽ ₉ ▽ ₁₀ ▽ ₁₂
EACH				
0956 0601	RADAR DETECTOR	4	⑤ ⑥ ⑦ ⑧	△ ₂ △ ₅ CC1 CC2
EACH				
0956 0834	ACOUSTIC PREEMPTION SYSTEM (4 APPROACHES)	1	Ⓐ Ⓑ Ⓒ Ⓓ A B C D	△ ₂ △ ₅ CC1 CC2
EACH				

● SEE SPECIAL PROVISION

TRAFFIC SIGNAL SUPPORTS *

[illegible]

* REFER TO TRAFFIC STANDARDS – SIGNALS, TC-8800 SERIES
● SEE SPECIAL PROVISION

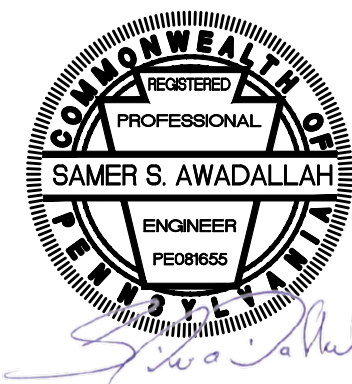
TRENCH, CONDUIT, JUNCTION BOX & ELECTRICAL ITEMS

DESCRIPTION				2 INCH CONDUIT		4 INCH CONDUIT		TRENCH AND BACKFILL, TYPE I		TRENCH AND BACKFILL, TYPE II MODIFIED WITH FULL SLAB REPLACEMENT		TRENCH AND BACKFILL, TYPE IV		SIGNAL CABLE, 14 AWG, 3 CONDUCTOR		SIGNAL CABLE, 14 AWG, 5 CONDUCTOR		SIGNAL CABLE, 14 AWG, 7 CONDUCTOR		JUNCTION BOX, JB-2		JUNCTION BOX, JB-27 GALVANIZED STEEL		ELECTRICAL SERVICE, TYPE B MODIFIED	
				ITEM NUMBER	UNIT	0954 0012	LF	0954 0014	LF	0954 0151	LF	4954 0152	LF	0954 0154	LF	0954 0201	LF	0954 0202	LF	0954 0203	LF	0910 0002	EACH	0954 0304	EACH
	3	TO	⊗			20		15		5									1						
	3	TO	5			33		1		32			220		105		45								
	3	TO	7		6			1		5			20												
	3	TO	9		7					7			20												
	3	TO	4			62				31		31										1			
	4	TO	11		15			9		6					200										
	4	TO	10		11			5		6			80												
	4	TO	12		14			5		9			100												
	3	TO	2			51				10		41										1			
	2	TO	8		4					4					120										
	2	TO	4		3					3					70										
	2	TO	6		10					10					70										
	2	TO	1			62				8		54										1			
	1	TO	2			38		15		23			320		40		210								
	1	TO	1		4					4			135												
	1	TO	3		22			2		20			130												
TOTAL INTERSECTION																								1	
TOTAL					96	372		53		289		126	1,025	605	255		1		3					1	

● SEE SPECIAL PROVISION

S.R. 0006 (WATER STREET) AND N. FOURTH STREET/S. FOURTH STREET

TRAFFIC SIGNAL PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
1-0	CRAWFORD	SR 0006	T12	5 OF 9	
BOROUGH OF CONNEAUT LAKE					
REVISION NUMBER	REVISIONS			DATE	BY

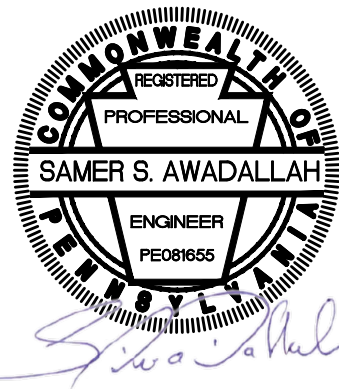
SIGNS

SIGN	STANDARD	DESCRIPTION	SIZE	QTY.	0931 0001	SF	0935 0001	SF	0936 0010	SF
	R10-3EL	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER ←	9" x 15"	4			*			
	R10-3ER	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER →	9" x 15"	4			*			
	D3-5	← S Fourth St N Fourth St →	84" x 28"	1					16.3	
	D3-5	← N Fourth St S Fourth St →	84" x 28"	1					16.3	
	D3-4	Water St	50" x 16"	2					11.2	
	R3-7L	Left Lane Must Turn Left	30" x 30"	1	6.3					
	R10-12A	Left Turn Yield On Flashing Yellow Arrow	30" x 36"	1					7.5	
TOTAL					6.3				51.3	

- * INCIDENTAL TO ITEM NO. 0956-0500 PEDESTRIAN PUSH BUTTON
- ☑ WHITE REFLECTORIZED LEGEND AND BORDER ON GREEN REFLECTORIZED BACKGROUND; 12-INCH UPPERCASE, 9-INCH LOWER CASE LEGEND

ROUTE MARKER AND DIRECTIONAL SIGNS

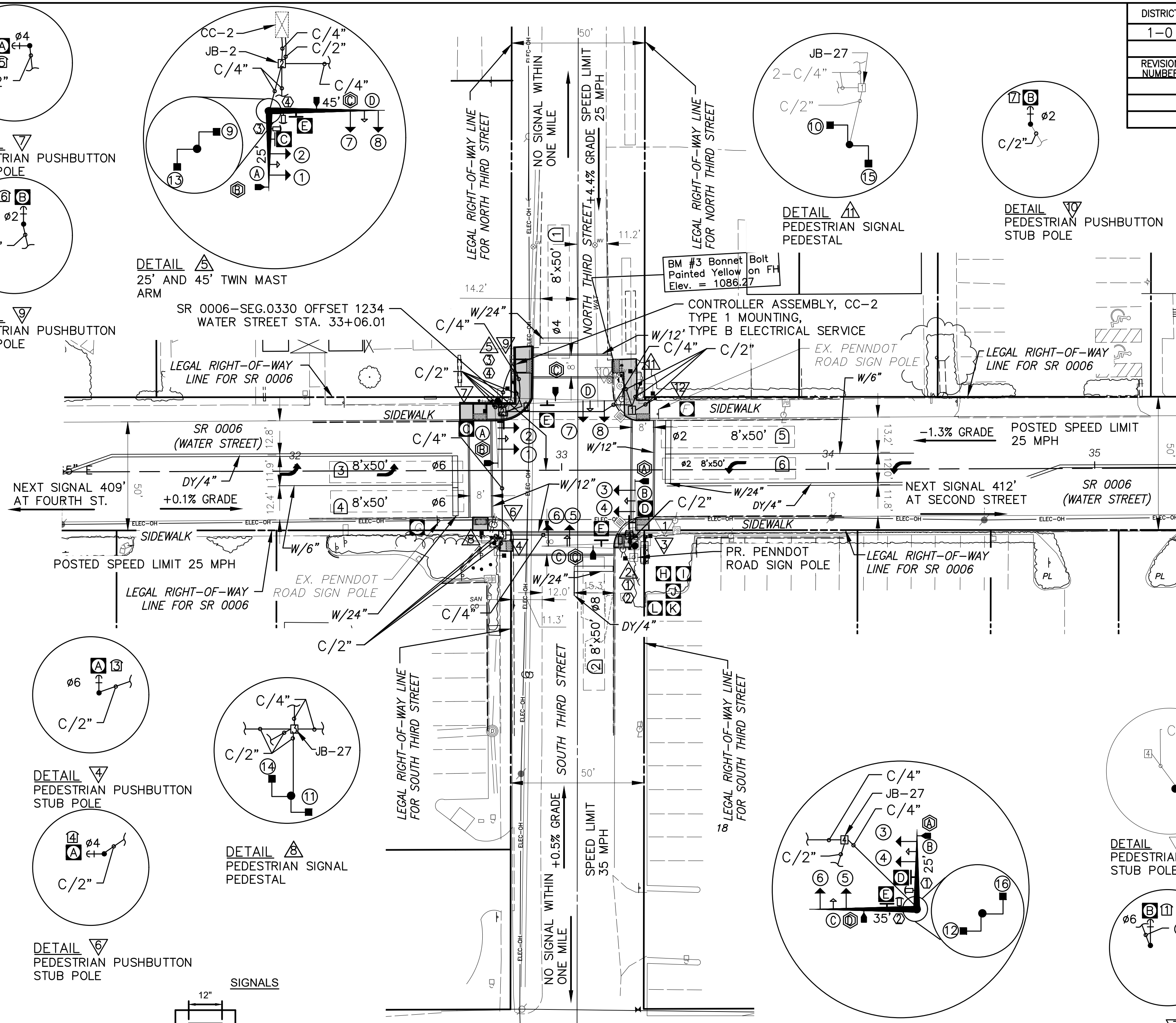
SIGN	STANDARD	DESCRIPTION	SIZE	SQ. FT. EACH	QTY.	QTY.	QTY.	QTY.	032	100	1/2
	M3-4 M1-4 M6-1P-15L	WEST 322 ←	24" x 12" 30" x 24" 24" X 18"	2.0 5.0 3.0		1			2.0	5.0	3.0
	M3-3 M1-5 M6-1P-15L	SOUTH 18 ←	24" X 12" 24" x 24" 24" X 18"	2.0 4.0 3.0			1		2.0	4.0	3.0
	M3-2 M1-4 M6-1P-15R	EAST 322 →	24" X 12" 30" x 24" 24" X 18"	2.0 5.0 3.0		1			2.0	5.0	3.0
	M3-1 M1-5 M6-1P-15R	NORTH 18 →	24" X 12" 24" x 24" 24" X 18"	2.0 4.0 3.0			1		2.0	4.0	3.0
	M3-4 M1-4 M6-1P-15L	WEST 6 ←	24" X 12" 24" x 24" 24" X 18"	2.0 4.0 3.0			1		2.0	4.0	3.0
	M3-2 M1-4 M6-1P-15R	EAST 6 →	24" X 12" 24" x 24" 24" X 18"	2.0 4.0 3.0			1		2.0	4.0	3.0
	M3-2 M1-4 M6-1P-15R	EAST 322 →	24" x 12" 30" x 24" 24" X 18"	2.0 5.0 3.0		1			2.0	5.0	3.0
	M3-4 M1-4 M6-3P-15	WEST 322 ↑	24" X 12" 30" x 24" 24" X 18"	2.0 5.0 3.0			1		2.0	5.0	3.0
	M3-1 M1-5 M6-3P-15	NORTH 18 ↑	24" X 12" 24" x 24" 24" X 18"	2.0 4.0 3.0			1		2.0	4.0	3.0
	M3-3 M1-5 M6-1P-15R	SOUTH 18 →	24" X 12" 24" x 24" 24" X 18"	2.0 4.0 3.0			1		2.0	4.0	3.0
	D7-4	PYMATUNING STATE PARK	48" x 16"	5.3	1						5.3
	D7-4	← PARK-OFFICE AND 13 JAMESTOWN FACILITIES	48" X 16"	5.3			1				5.3
	D7-4	↑ LINESVILLE AND 10 TUTTLE FACILITIES	48" X 16"	5.3			1				5.3
TOTAL									109.9		



DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
1—0	CRAWFORD	SR 0006	T12	6 OF 9	
BOROUGH OF CONNEAUT LAKE					
REVISION NUMBER	REVISIONS			DATE	BY

SIGNS					
SIGN	STANDARD	DESCRIPTION	SIZE	QTY.	
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D	D3-5	← N Third St S Third St →	84" x 42"	1	
E	D3-4	Water St	50" x 16"	2	
F	R3-7L	Left Lane Must Turn Left	30" x 30"	1	

WHITE REFLECTORIZED LEGEND AND BORDER ON GREEN REFLECTORIZED BACKGROUND;
12-INCH UPPERCASE, 9-INCH LOWER CASE LEGEND



SIGNAL ASSEMBLY NOTES:

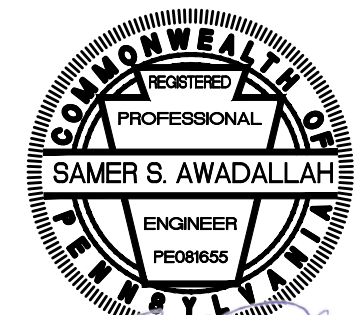
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- ALL PEDESTRIAN SIGNAL HEADS EQUIPPED WITH TUNNEL VISORS
- CONFIRMATION LIGHTS A,B,C AND D EQUIPPED WITH CUT-AWAY VISORS
- MIN/MAX HEIGHT FOR VEHICULAR SIGNALS 17'/18'.
- MIN/MAX HEIGHT FOR PEDESTRIAN SIGNALS 9'/10'.
- MINIMUM HORIZONTAL DISTANCE BETWEEN SIGNAL HEADS 8'.
- FINAL SIGNAL HEAD PLACEMENT TO BE CONFIRMED BY A REPRESENTATIVE OF THE DISTRICT TRAFFIC UNIT PRIOR TO SIGNAL TURN ON.
- PROVIDE AIRCRAFT TYPE STRANDED CABLE FOR MOUNTING SIGNAL AND SIGN BRACKET ASSEMBLIES TO MAST ARMS.

- CC-2X - CONTROLLER ASSEMBLY
- MAST ARM POLE
- PEDESTRIAN SIGNAL PEDESTAL
- PEDESTRIAN PUSHBUTTON STUB POLE
- VEHICULAR SIGNAL HEAD
- PEDESTRIAN SIGNAL HEAD
- SIGN
- RADAR DETECTOR
- EMERGENCY PREEMPTION DETECTOR
- EMERGENCY PREEMPTION CONFIRMATION LIGHT

LEGEND

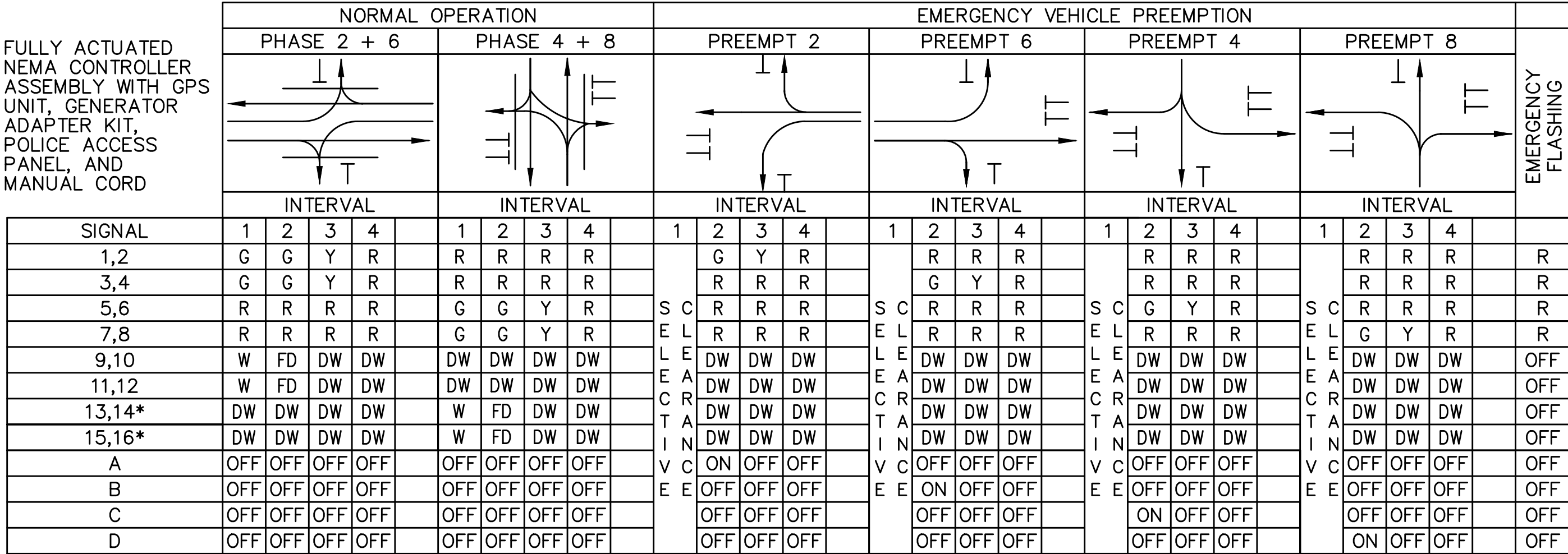
- PEDESTRIAN PUSHBUTTON, SIGN
- RADAR DETECTION ZONE
- CONDUIT/SIZE
- JUNCTION BOX
- SOLID WHITE LINE/WIDTH
- SOLID DOUBLE YELLOW LINE/WIDTH
- LIGHT POLE
- POST MOUNTED SIGN

TRAFFIC SIGNAL PLAN



COUNTY:	CRAWFORD
MUNICIPALITY:	BOROUGH OF CONNEAUT LAKE
INTERSECTION OF:	S.R. 0006 (WATER STREET) AND N THIRD STREET/S THIRD STREET
APPROVED AND ACCEPTED:	
MUNICIPAL OFFICIAL	DATE:
RECOMMENDED:	
DISTRICT TRAFFIC ENGINEER	DATE:
25 0 25 50 SCALE IN FEET	

MOVEMENT, PHASING, AND SEQUENCE DIAGRAM



* UPON PEDESTRIAN ACTUATION ONLY, OTHERWISE "DON'T WALK" AT ALL TIMES.

PHASING TIMING

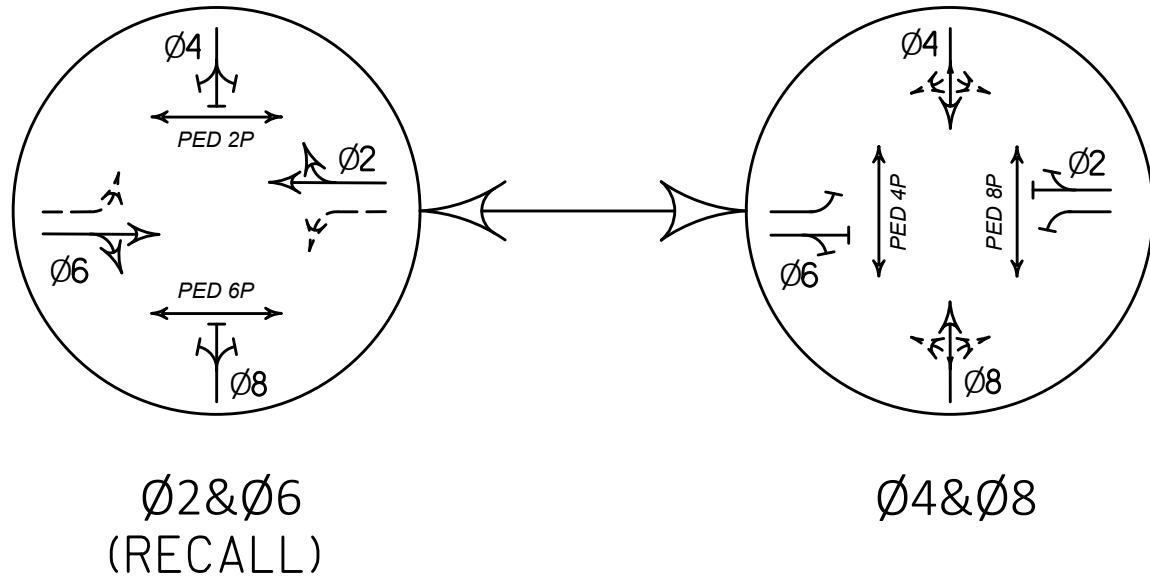
PHASES	1	2	3	4	5	6	7	8
MIN GREEN	—	10	—	5	—	10	—	5
ADVANCE WALK	—	—	—	—	—	—	—	—
WALK	—	7	—	7	—	7	—	7
PED CLEARANCE	—	12	—	11	—	12	—	11
PASSAGE	—	3	—	3	—	3	—	3
MAXIMUM 1	—	35	—	35	—	35	—	35
MAXIMUM 2	—	—	—	—	—	—	—	—
YELLOW	—	3	—	4	—	3	—	4
RED	—	2.5	—	2.5	—	2.5	—	2.5
MIN RECALL	—	X	—	—	—	X	—	—
MAX RECAL	—	—	—	—	—	—	—	—
SOFT RECALL	—	—	—	—	—	—	—	—
PED RECALL	—	—	—	—	—	—	—	—
REST IN WALK	—	X	—	—	—	X	—	—
DUAL ENTRY	—	—	—	X	—	—	—	X
MEMORY	NL	—	NL	NL	—	—	NL	NL

CONTROLLER COORDINATED WITH ADJACENT CONTROLLERS UTILIZING PROPOSED GPS CLOCK IN THE CONTROLLER FOR WATER ST. AND THIRD ST. INTERSECTION.

PREEMPTION

TYPE	EVP	EVP	EVP	EVP
FAILSAFE SIGNAL	A	B	C	D
DWELL PHASE	Ø2	Ø6	Ø4	Ø8
PREEMPT MIN	10	10	10	10
PREEMPT MAX	60	60	60	60
EXIT PHASE	Ø4&Ø8	Ø4&Ø8	Ø2&Ø6	Ø2&Ø6

PHASING DIAGRAM



COORDINATION PATTERNS

SPLIT PATTERN	CYCLE LENGTH	OFFSET	SPLITS								COORD PHASES	REMARKS
			1	2	3	4	5	6	7	8		
1	75	0	—	37	—	26	—	37	—	26	2 6	
4	75	2	—	40	—	23	—	40	—	23	2 6	
2	95	0	—	58	—	25	—	58	—	25	2 6	
3	90	0	—	55	—	23	—	55	—	23	2 6	
2	95	0	—	59	—	24	—	59	—	24	2 6	
FREE	—	—	—	—	—	—	—	—	—	—		

NOTES:
OFFSET IS REFERENCED TO THE BEGINNING OF PHASES 2&6 INTERVAL 3 (YELLOW).
UNUSED GREEN TIME FOR PHASES 4&8 WILL BE PROVIDED TO PHASE 2.

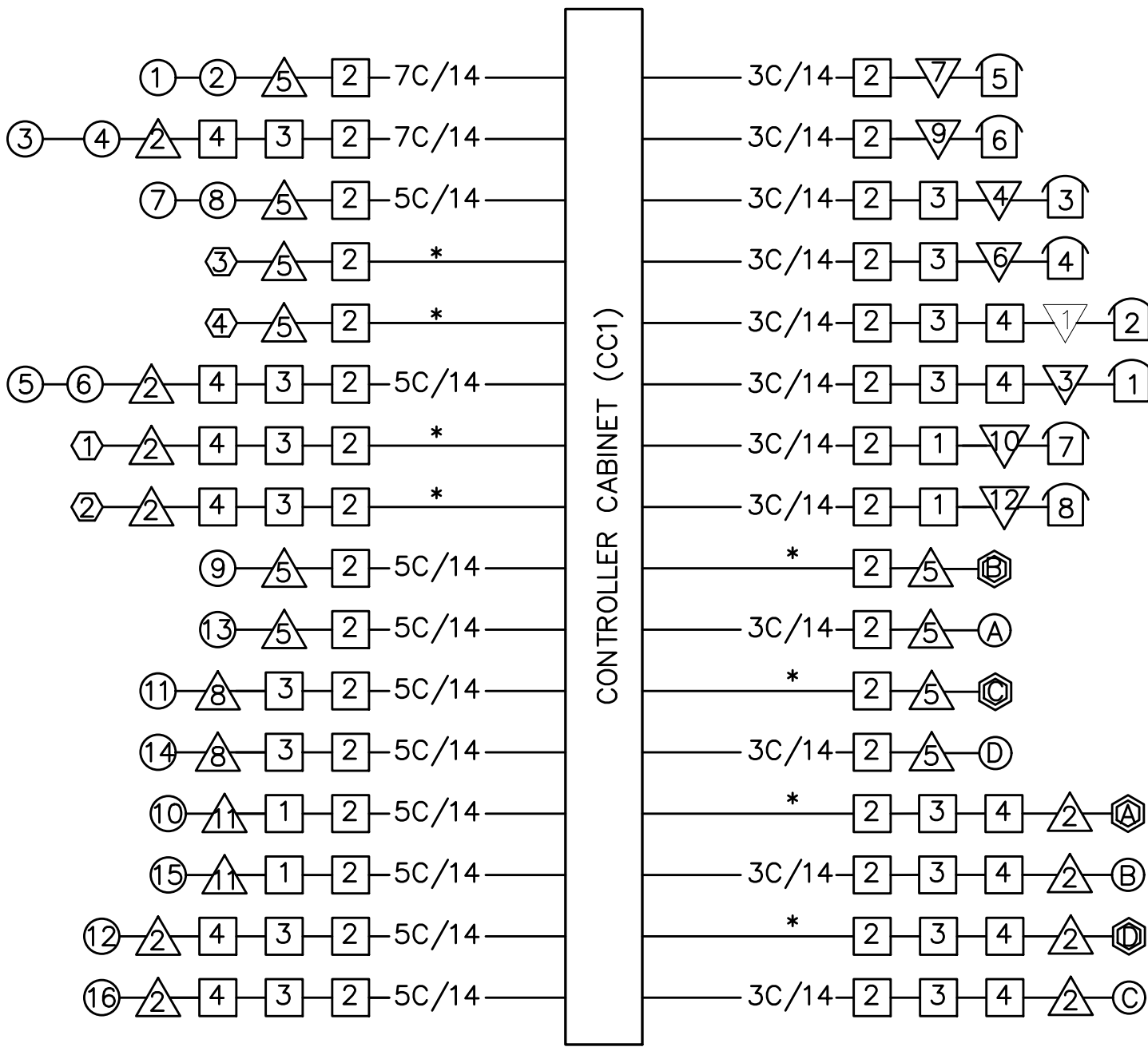
DAY PLAN/EVENT

DAY PLAN					1	
DAY OF WEEK						
Su	M	Tu	W	Th	F	Sa
	X	X	X	X	X	
EVENT		ACTION PLAN		START TIME		
1		1		06:00		
2		2		10:00		
3		3		15:00		
4		2		19:00		
5		100		23:00		
6						

DAY PLAN/EVENT

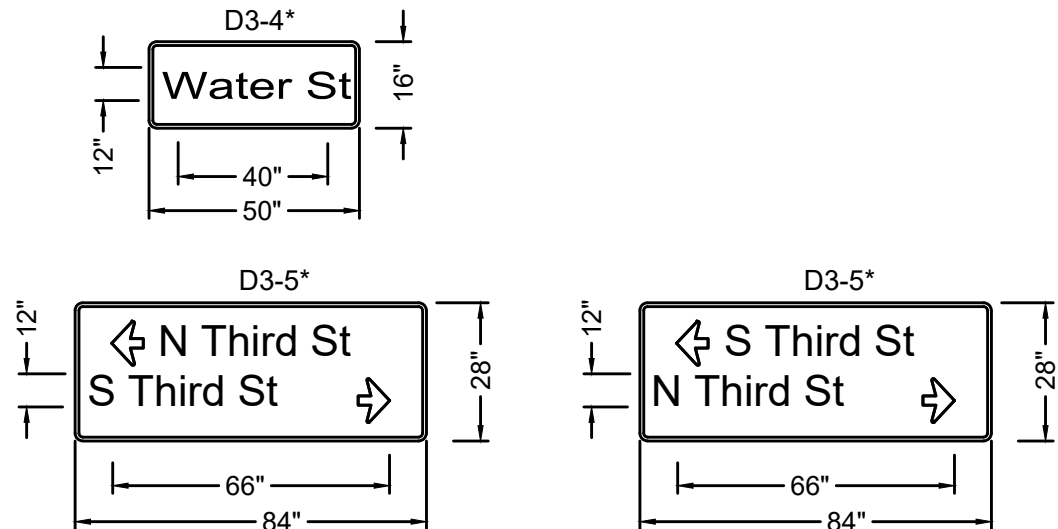
DAY PLAN					2	
DAY OF WEEK						
Su	M	Tu	W	Th	F	Sa
X						X
EVENT		ACTION PLAN		START TIME		
1		4		09:00		
2		100		23:00		
3						
4						
5						
6						

WIRING DIAGRAM



- ③ - SIGNAL HEAD
- ⑥ - JUNCTION BOX
- △ - TRAFFIC SIGNAL SUPPORT
- ▽ - PEDESTRIAN PUSH BUTTON STUB POLE
- ② - PEDESTRIAN PUSH BUTTON
- ② - RADAR DETECTOR *
- ⊞ - EMERGENCY PREEMPTION DETECTOR
- Ⓐ - EMERGENCY PREEMPTION CONFIRMATION LIGHT
- * WIRING DETERMINED BY MANUFACTURER

SIGN DETAIL



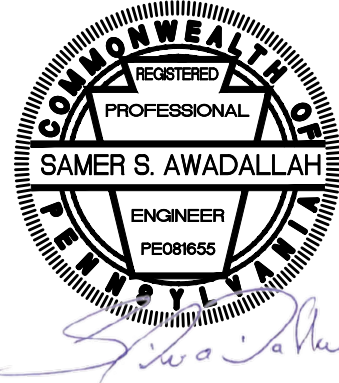
NOTE:
LEGEND, ARROWS AND BORDER: WHITE (REFLECTORIZED)
BACKGROUND: GREEN (REFLECTORIZED)
FONT: 12" UPPER CASE AND 9" LOWER CASE CLEARVIEW 3W

TRAFFIC SIGNAL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
1—0	CRAWFORD	SR 0006	T12	7 OF 9	
BOROUGH OF CONNEAUT LAKE					
REVISION NUMBER	REVISIONS			DATE	BY

DETECTION ZONE INFORMATION

DETECTOR	DETECTION ZONE (S)	MODE	TYPE	LOCATION MAST ARM
②	①	PRESENCE	RADAR (STOP BAR)	△
④	②	PRESENCE	RADAR (STOP BAR)	△
①	③	PRESENCE	RADAR (STOP BAR)	△
①	④	PRESENCE	RADAR (STOP BAR)	△
③	⑤	PRESENCE	RADAR (STOP BAR)	△
③	⑥	PRESENCE	RADAR (STOP BAR)	△



COUNTY: CRAWFORD
MUNICIPALITY: BOROUGH OF CONNEAUT LAKE
INTERSECTION OF:
S.R. 0006 (WATER STREET) AND
N THIRD STREET/S THIRD STREET

APPROVED AND ACCEPTED:

MUNICIPAL OFFICIAL _____ DATE: _____

RECOMMENDED:

DISTRICT TRAFFIC ENGINEER _____ DATE: _____

NOT TO SCALE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
1-0	CRAWFORD	SR 0006	T12	8 OF 9
BOROUGH OF CONNEAUT LAKE				
REVISION NUMBER	REVISIONS			DATE
				BY

ITEM NUMBER	MISCELLANEOUS			
UNIT	DESCRIPTION	QTY.	REMARKS	LOCATION
4952 1040	NEMA TS-2; TYPE 2 CONTROLLER ASSEMBLY, TYPE 1 MOUNTING, WITH GPS ANTENNA	1	WITH MANUAL CORD	CC2 (32+82, 40' L)
EACH				
0955 3208	VEHICULAR SIGNAL HEAD, THREE 12" SECTIONS	8	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	△ 2 △ 5
EACH				
0955 3722	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, TYPE A	8	⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯	△ 2 △ 5 △ 8 △ 11
EACH				
0956 0500	PEDESTRIAN PUSH BUTTON	8	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▽ 1 ▽ 3 ▽ 4 ▽ 6 ▽ 9 ▽ 10 ▽ 12
EACH				
0956 0601	RADAR DETECTOR	4	① ② ③ ④	△ 2 △ 5 CC1 CC2
EACH				
0956 0834	ACOUSTIC PREEMPTION SYSTEM (4 APPROACHES)	1	Ⓐ Ⓑ Ⓒ Ⓓ	△ 2 △ 5 CC1 CC2
EACH				

● SEE SPECIAL PROVISION

* REFER TO TRAFFIC STANDARDS – SIGNALS, TC-8800 SERIES

● SEE SPECIAL PROVISION

S.R. 0006 (WATER STREET) AND N. THIRD STREET/S. THIRD STREET

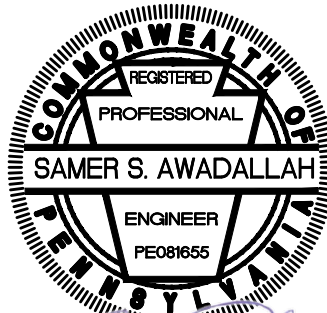
TRAFFIC SIGNAL SUPPORTS *

STRUCT. NO.	ITEM NO.	DESCRIPTION	QTY.	ROUTE	STATION	SIDE	OFFSET	MAST ARM																				PEDESTAL							
	UNIT							H	K	ARM "A"										ARM "B"										SHAFT					
										L	SIGNAL LOCATION					SIGN LOCATION					YY	L	SIGNAL LOCATION					SIGN LOCATION					H	M	N
											M	N	O	P	R	S	T	U	Y	M			N	O	P	R	S	T	U	Y					
1	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	33+28	RT.	25.1'																					5'							
2	4951 1252 EACH	TRAFFIC SIGNAL SUPPORT, 25' & 35' MAST ARMS, DECORATIVE	1	0006	33+27	RT.	28.5'	17'	8'	35'	33'	28'	25'	16'					13'	90'	25'	24'	17'	13'				9'							
3	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	33+25	RT.	29.5'																					5'							
4	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	32+77	RT.	29.1'																					5'							
5	4951 1254 EACH	TRAFFIC SIGNAL SUPPORT, 25' & 45' MAST ARMS, DECORATIVE	1	0006	32+75	RT.	27.3'	17'	8'	45'	40'	36'	32'	22'				19'	90'	25'	23'	18'	14'	10'				8'							
6	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	32+74	RT.	25.1'																					5'							
7	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	32+74	LT.	36.1'																					5'							
8	4951 4012 EACH	TRAFFIC SIGNAL SUPPORT, 12' PEDESTAL, DECORATIVE	1	0006	32+76	LT.	26.0'																					12'		8'					
9	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	32+82	LT.	33.2'																					5'							
10	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	33+23	LT.	35.6'																					5'							
11	4951 4012 EACH	TRAFFIC SIGNAL SUPPORT, 12' PEDESTAL, DECORATIVE	1	0006	33+30	LT.	32.4'																					12'		8'					
12	4951 4022 EACH	PEDESTRIAN STUB POLE, TYPE B, DECORATIVE	1	0006	33+35	LT.	26.8'																					5'							

TRENCH, CONDUIT, JUNCTION BOX & ELECTRICAL ITEMS

DESCRIPTION	LOCATION	ITEM NUMBER	UNIT	2 INCH CONDUIT		4 INCH CONDUIT		TRENCH AND BACKFILL, TYPE I		TRENCH AND BACKFILL, TYPE II MODIFIED WITH FULL SLAB REPLACEMENT		TRENCH AND BACKFILL, TYPE IV		SIGNAL CABLE, 14 AWG, 3 CONDUCTOR		SIGNAL CABLE, 14 AWG, 5 CONDUCTOR		SIGNAL CABLE, 14 AWG, 7 CONDUCTOR		JUNCTION BOX, JB-2		JUNCTION BOX, JB-27 GALVANIZED STEEL		ELECTRICAL SERVICE, TYPE B MODIFIED
				0954 0012	LF	0954 0014	LF	0954 0151	LF	4954 0152	LF	0954 0154	LF	0954 0201	LF	0954 0202	LF	0954 0203	LF	0910 0002	EACH	0954 0304	EACH	
	2 TO 2					42		15		27										1				
	2 TO 5					25				25								70						
	2 TO 7			6						6				30										
	2 TO 9			20				1		19				20										
	2 TO 1					49		3		3		43										1		
	1 TO 11			9				3		6						160								
	1 TO 10			13				1		12				70										
	1 TO 12			9				3		6				70										
	2 TO 3					44				6		38										1		
	3 TO 8			4						4						140								
	3 TO 4			4						4				60										
	3 TO 6			3						3				60										
	3 TO 4					45				6		39										1		
	4 TO 2					26		1		25				240	290	150								
	4 TO 1			2				1		1				100										
	4 TO 3			4				1		3				100										
TOTAL INTERSECTION																								1
TOTAL				74		320		29		245		120		750		590		220		1		3		1

* INSTALLED IN PREVIOUS PHASE



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
1-0	CRAWFORD	SR 0006	T12	9 OF 9
BOROUGH OF CONNEAUT LAKE				
REVISION NUMBER	REVISIONS			DATE
				BY

SIGNS									POST MOUNTED SIGNS, TYPE F		STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS WITH STIFFENERS	
SIGN	STANDARD	DESCRIPTION	SIZE	SQ. FT. EACH	QTY.	QTY.	QTY.	QTY.	0935 0001	SF	0936 0010	SF
	R10-3EL	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER ←	9" x 15"	1.0			4		*			
	R10-3ER	EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER →	9" x 15"	1.0			4		*			
	D3-5	← S Third St N Third St →	84" x 28"	24.5				1			24.5	
	D3-5	← N Third St S Third St →	84" x 28"	24.5				1			24.5	
	D3-4	Water St	50" x 16"	5.6				2			11.2	
		TOTAL									60.2	

* INCIDENTAL TO ITEM NO. 0956-0500 PEDESTRIAN PUSH BUTTON

☑ WHITE REFLECTORIZED LEGEND AND BORDER ON GREEN REFLECTORIZED BACKGROUND;
12-INCH UPPERCASE, 9-INCH LOWER CASE LEGEND

ROUTE MARKER AND DIRECTIONAL SIGNS									POST MOUNTED SIGNS, TYPE C	
SIGN	STANDARD	DESCRIPTION	SIZE	SQ. FT. EACH	QTY.	QTY.	QTY.	QTY.	0932 0001	SF
	M3-2 M1-5 M6-1P-15R	EAST 285 →	24" x 12" 30" x 24" 24" x 18"	2.0 5.0 3.0	1				2.0 5.0 3.0	
	M1-4	6	24" x 12" 24" x 24" 24" x 18"	2.0 4.0 3.0			1		2.0 4.0 3.0	
	M1-4	322	24" x 12" 30" x 24" 24" x 18"	2.0 5.0 3.0			1		2.0 5.0 3.0	
	M3-2 M1-5 M6-4P-15	18 ↔	24" x 12" 24" x 24" 24" x 18"	2.0 4.0 3.0			1		2.0 4.0 3.0	
	M3-2 M1-5 M6-1P-15L	WEST 285 ←	24" x 12" 30" x 24" 24" x 18"	2.0 5.0 3.0		1			2.0 5.0 3.0	
	M3-2 M1-5 M6-1P-15R	EAST 285 →	24" x 12" 30" x 24" 24" x 18"	2.0 5.0 3.0			1		2.0 5.0 3.0	
		TOTAL							58	

