



# STREET/SIDEWALK BLOCKAGE FORM

FOR USE BY FRANCHISE UTILITY COMPANIES ONLY - MAY NOT BE SUBMITTED BY CONTRACTOR

E-mail to: [TrafficControlPermit@sandiego.gov](mailto:TrafficControlPermit@sandiego.gov) | Questions? Call 619-446-5150

### ATTENTION

The night work hours listed on this Permit may be revised by Noise Permit intake of the Code Enforcement Section.

### City Use Only

#### City Comments:

No work 7/4/18 City Holiday

APPROVED <input checked="" type="checkbox"/> DENIED <input type="checkbox"/>	Date Reviewed	06/27/2018
Reviewer's Name	Felipe Avila	
Reviewer's Phone Number	(619) 446-5207	

### Information Below must be TYPED and Completed by Franchise Utility Company Only

<b>Date Submitted</b>	6/26/18					<b>Type of Work</b>					
<b>Utility Company</b>	SDG&E	<b>Contractor</b>	ARB	<b>Lane Closure</b>	1	<b>Street Closure</b>	2	<b>Sidewalk Closure</b>	3		
<b>Contact Name</b>	Vinh Hunh	<b>Contact Name</b>	Rod Nelson	<b>Alley Closure</b>	4	<b>Parking Lane</b>	5	<b>Detour</b>	6		
<b>Phone Number</b>	(858) 610-1161	<b>Phone Number</b>	(619) 778-2405	<b>Trenching</b>	7	<b>Flagging</b>	8	<b>Bike Lane</b>	9		
<b>Email Address</b>	VHuyh@semprautilities.com	<b>Email Address</b>	Rnelson@prim.com								

Street Name	From	To	Thomas Bros.	Start Date	End Date	Work Hours	Type of Work
Sample Street	Sample Road	Sample Avenue	1200-A1	xx/xx/xxxx	xx/xx/xxxx	8:30AM - 3:30PM	1,2,3,4,5,6,7,8,9
Miramar Road	Padgett Street	Kearny Mesa Road	1209-E6	07/02/2018	07/21/2018	9:00PM-5:00AM	1,5,7,8
Black Mountain Road	Activity Road	Miramar Road	1209-E6	07/02/2018	07/21/2018	9:00PM-5:00AM	6,8
Kearny Villa Road	Maya Linda Road	Kearny Mesa Road	1209-E5	07/02/2018	07/21/2018	9:00PM-5:00AM	6,8
Kearny Mesa Road	Miramar Road	End of Kearny Mesa Road	1209-F6	07/02/2018	07/21/2018	9:00PM-5:00AM	1,5,7,8

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES

<b>Applicant Comments:</b> Caltrans Phases C-5 through C-11, City Phase SD-1, Sunday - Thursday night work 9pm to 5am	<b>Is this an Extension?</b> <input type="radio"/> YES <input checked="" type="radio"/> NO	<b>Date of previous approval:</b> 06/04/2018
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- Completed **TYPED** form must be submitted a minimum of 2 working days prior to start of work.
- All plans shall be original, legible, and submitted in PDF format.
- No work on Saturdays, Sundays, and City-Observed Holidays unless authorized by City staff.
- Work affecting traffic signals requires a minimum of 5 working days advance notice - Contact Field Services at: [jvaca@sandiego.gov](mailto:jvaca@sandiego.gov)



**SIGN LEGEND**

Sign Legend items include: C2(CA), C9A (CA), C12 (CA), C19(CA), C20(CA)L, C20(CA)R, C20(CA)(2)L, C20(CA)(3)R, C20(CA)BIKE, C27(CA), C30(CA), C30(CA)BIKE, G20-2, M4-8A, M4-10L, M4-10R, R3-1, R3-2, R3-4, R3-18, R3-5L, R3-5R, R3-6L, R3-6R, R3-7 L, R3-7 R, R4-7A, R49(CA)L, R49(CA)R, R9-3A, R9-9, R9-10, R9-11, R9-11A, R11-4, R11-4, SC3(CA), W1-4L, W1-4R, W3-4, W4-2L, W4-2R, W8-24, W11-1, W16-1, W20-1, W20-2, W20-4, W12-1, OM-3R, OM-3L, OM-3C, OM4-1, W1-7, R6-1 R, SPCL 1, SPCL 2, SPCL 3, SC6-4.

TABLE 1

**TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING**

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT	MERGING	SHIFTING	SHOULDER	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1290	600	300	206	50	100	25
55	1320	660	330	225	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

TABLE 2

**LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING**

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	150	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

TABLE 3

**ADVANCE WARNING SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

**LEGEND**

- APPROXIMATE TRENCH LOCATION
- SIGN
- TRAFFIC CONES / DELINEATOR
- BARRICADE
- FLAGGER
- FLASHING ARROW SIGN
- WORK ZONE
- ARMORGUARD

\* - For other offsets, use the following taper length formula for L:  
 For speed of 40 mph or less:  $L = W \times S^2 / 60$   
 For speed of 45 mph or more:  $L = WS$   
 Where: L = Taper length in feet  
 W = width of offset in feet  
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA)

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  
 \*\* - Longitudinal buffer space or flagger station spacing  
 \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

**PROJECT NAME:** L23071 Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

**DATE:** 1/4/2018  
**DESIGNED:** Clint Jones  
**CHECKED BY:** Mark Webb

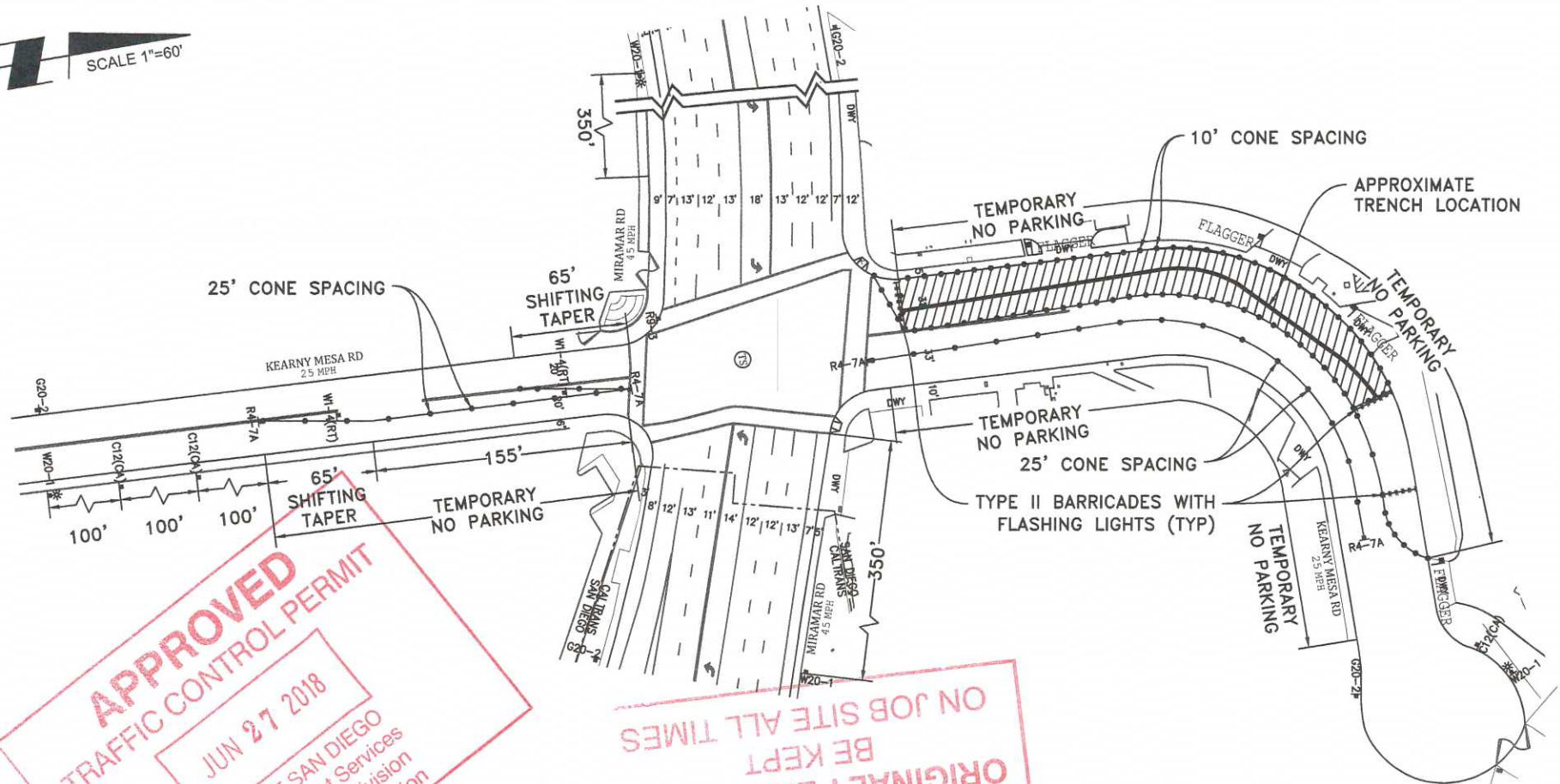
**AIRX** SURVEYORS, INC.  
 Gail McMorrann  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 ESCONCADO, CA 92527  
 PHONE: (760) 490-2947  
 CELL: (760) 413-3738

**N|V|5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858.385.0500 WWW.NV5.COM

**AIRX JOB#:** X160218  
**MISC/POTHOLE#:**  
**TYPE OF WORK:** TRENCHING / CONDUIT

**THOMAS GRID#:** 1209-F6  
**DRAWN FOR:** SAN DIEGO

**SHEET 1 OF 4**



**APPROVED**  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Permitting Section

ORIGINAL PERMIT MUST  
 BE KEPT  
 ON JOB SITE ALL TIMES

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To  
 Pensquitos Substation - 230 KV Underground

DATE: 1/4/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

UTILITY SURVEYORS, INC.  
  
 Gail McMorran  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 ESCONDO, CA 92027  
 PHONE: (760) 480-8287  
 CELL: (760) 419-3728

**N|V|5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 THOMAS GRID#: 1209-F6  
 MISC/POTHOLE#: \_\_\_\_\_  
 DRAWN FOR: SAN DIEGO  
 TYPE OF WORK: TRENCHING / CONDUIT

**SHEET 2 OF 4**



RECEIVED  
JAN 24 2018

**SIGN LEGEND**

Grid of traffic signs including: RAMP CLOSED (C2(CA)), NARROW LANE (C12(CA)), RAMP CLOSED AHEAD (C19(CA)), LEFT LANE CLOSED AHEAD (C20(CA)L), RIGHT LANE CLOSED AHEAD (C20(CA)R), 2 LEFT LANES CLOSED AHEAD (C20(CA)(2)L), 2 RIGHT LANES CLOSED AHEAD (C20(CA)(2)R), 3 RIGHT LANES CLOSED AHEAD (C20(CA)(3)R), BIKE LANE CLOSED AHEAD (C20(CA)BIKE), OPEN TRENCH (C27(CA)), LANE CLOSED (C30(CA)), SHOULDER CLOSED (C30A(CA)), BIKE LANE CLOSED (C30(CA)BIKE), TRUCKS ENTERING EXITING (C44(CA)), END ROAD WORK (G20-2), END DETOUR (M4-8A), M4-10L, M4-10R, R3-1, R3-2, R3-4, R3-18, R3-5L, R3-5R, R3-7 L, R3-7 R, R4-7A, R4-11, R49(CA)L, R49(CA)R, R9-3, R9-9, R8-10, R9-11, R9-11A, R11-4, SC3(CA), W1-4L, W1-4R, W3-4, W4-2L, W4-2R, W8-24, W8-6, W11-1, W16-1P, W20-1, W20-2, W20-4, W12-1, W21-5, W21-5BL, DM-3R, OM-3L, OM-3C, OM4-1, W1-7, R8-1 R, SPCL 1, SPCL 2, SPCL 3, SC6-4.

ORIGINAL PERMIT MUST BE KEPT ALL THE TIME ON JOB SITE

**TABLE 1**  
TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)			MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT	SPURRING L/2	SHOULDER L/3	TAPER	TANGENT	CONCRETE
20	160	80	40	27	25	15
25	250	125	63	42	30	12
30	360	180	90	60	35	10
35	490	245	123	82	35	7
40	640	320	160	107	40	20
45	1080	540	270	180	45	22
50	1200	600	300	200	50	25
55	1320	660	330	220	50	25
60	1440	720	360	240	50	25
65	1560	780	390	260	50	25
70	1680	840	420	280	50	25
75	1800	900	450	300	50	25

**TABLE 2**  
LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED	DOWNGRADE MIN D ***		
	-3%	-6%	-9%
20	110	170	120
25	155	230	165
30	200	305	227
35	250	390	297
40	305	485	374
45	360	590	460
50	425	705	557
55	495	830	663
60	570	965	780
65	645	1110	905
70	720	1265	1040
75	800	1430	1185

**TABLE 3**  
ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS †		
	A	B	C
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	500	2640

- LEGEND**
- APPROXIMATE TRENCH LOCATION
  - SIGN
  - TRAFFIC CONES / DELINEATOR
  - BARRICADE
  - FLAGGER
  - FLASHING ARROW SIGN
  - WORK ZONE
  - ZONEGUARD
  - SIGN WITH PORTABLE FLASHING BEACON
  - QUADGUARD II CRASH CUSHION
  - CALTRANS CRASH ARRAY TU17

\* For other offsets, use the following taper length formula:  $L = WS / S$   
 For speed of 40 mph or less, L = WS/60  
 For speed of 45 mph or more L = WS  
 Where: L = Taper length in feet  
 W = Width of offset in feet  
 S = Posted speed limit, all-pass 85th-percentile speed prior to work starting or the anticipated operating speed in mph  
 \*\* Use for taper and tangent sections where there are no pavement markings or where pavement markings are not visible (CA)  
 \*\*\* Use for sustained downgrades steeper than -3 percent and longer than 1 mile

APPROVED  
11-17-2017  
JAN 29 2018

CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb



**SHEET 1 OF 48**

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 499-2347  
CELL: (760) 419-2738

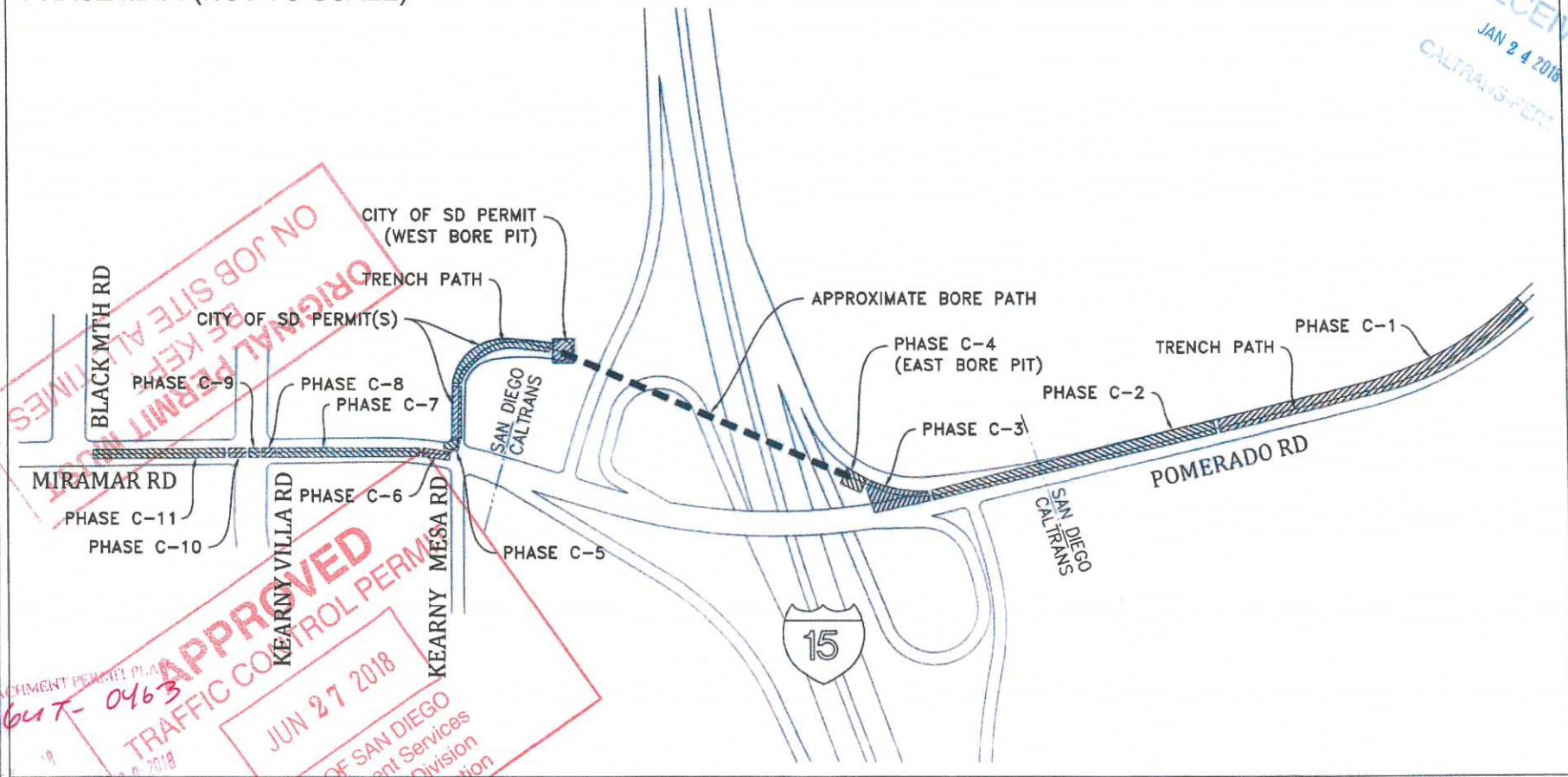
**NIV5**  
15082 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858 385 0500 WWW.NIV5.COM

AIRX JOB#: X160218  
MISC/POTHoles#: \_\_\_\_\_  
THOMAS GRID#: 1209-F  
DRAWN FOR: CALTRANS  
TYPE OF WORK: TRENCHING / CONDUIT



PHASE MAP: (NOT TO SCALE)

RECEIVED  
JAN 24 2018  
CALTRANS-PER



ON JOB SITE AT ALL TIMES  
 ORIGINAL PERMIT  
 APPROVED  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Permit Services  
 Engineering Division  
 Traffic Safety Section  
 11-17-647-0463  
 19  
 1/24/2018

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
 Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYORS, INC.  
 Gail McMorrin  
 President  
 2334 EAST EL NORTE PARKWAY SUITE C  
 ESCONDIDO, CA 92027  
 PHONE: (760) 480-2347  
 CELL: (760) 419-9738

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218

MISC/POTHLES#:

TYPE OF WORK: TRENCHING / CONDUIT

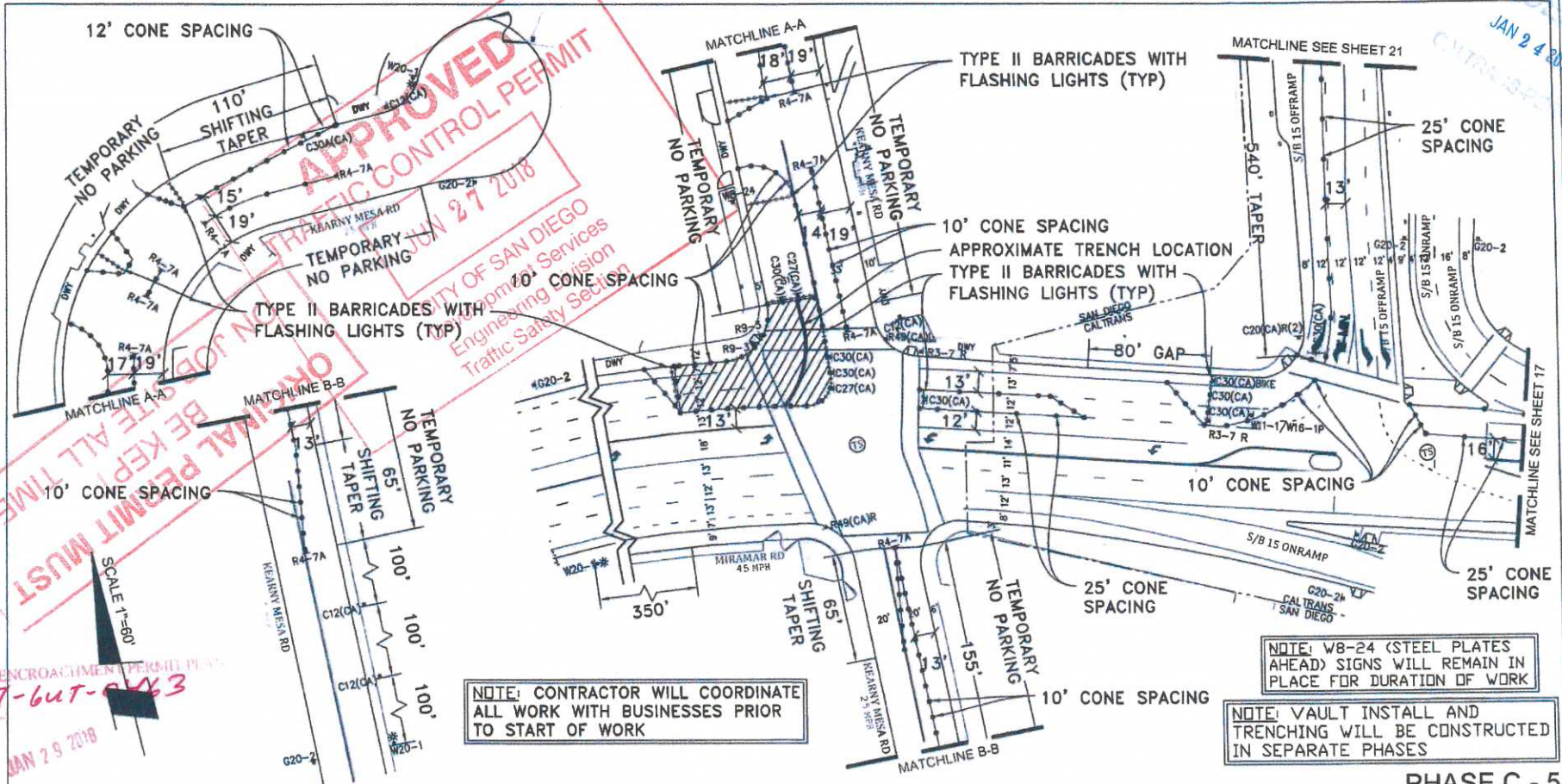
THOMAS GRID#: 1209-F6

DRAWN FOR: CALTRANS



DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

SHEET 2 OF 48



NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH BUSINESSES PRIOR TO START OF WORK

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

NOTE: VAULT INSTALL AND TRENCHING WILL BE CONSTRUCTED IN SEPARATE PHASES

**PHASE C - 5**

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMoran  
 President  
 2504 EAST EL NORTE PARKWAY SUITE C  
 ESCOBAR, CA 92027  
 PHONE: (760) 480-2347  
 CELL: (760) 418-3728

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P. 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHOLE#: \_\_\_\_\_  
 TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
 DRAWN FOR: SAN DIEGO



**SHEET 16 OF 48**

**APPROVED**  
**TRAFFIC CONTROL PERMIT**  
 JAN 27 2018  
 UNIVERSITY OF SAN DIEGO  
 Engineering Division  
 Traffic Safety Section

APPROVED ENCROACHMENT PERMIT PL 17  
 11-17-6UT-0183  
 Permit No. \_\_\_\_\_  
 JAN 29 2018

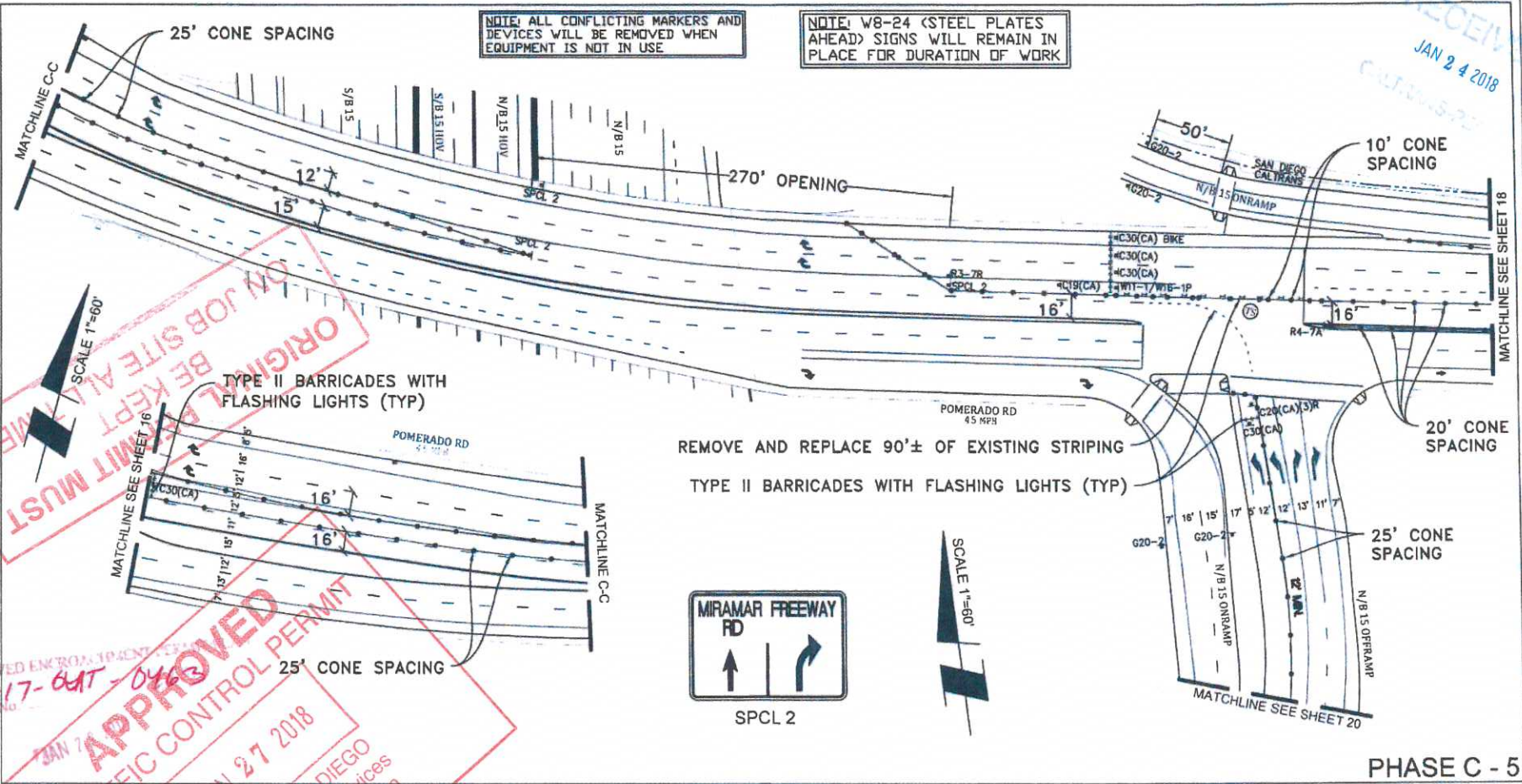
JAN 24 2018  
 CONTROL



RECEIVED  
JAN 24 2018

NOTE: ALL CONFLICTING MARKERS AND DEVICES WILL BE REMOVED WHEN EQUIPMENT IS NOT IN USE

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK



ORIGINAL BE KEPT AT ALL TIMES  
ON JOB SITE ALL TIMES  
MUST

APPROVED ENVIRONMENTAL PERMIT  
11-17-CAT-0463  
Permit No.  
APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 27 2018

PHASE C - 5

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
254 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2547  
CELL: (760) 419-2728

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 658.385.0500 WWW.NV5.COM

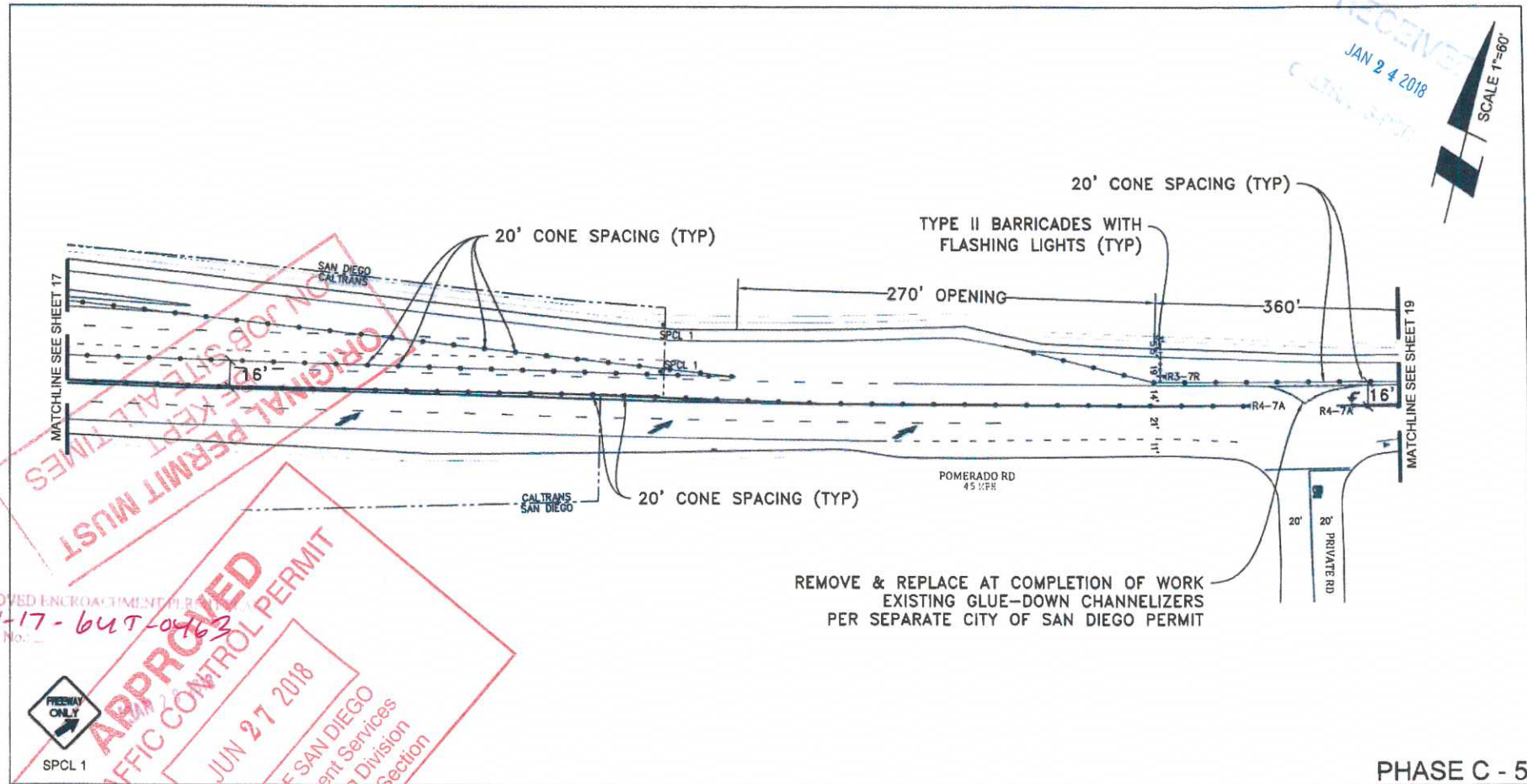
AIRX JOB#: X160218	THOMAS GRID#: 1209-F6
MISC/POTHOLE#:	DRAWN FOR: SAN DIEGO
TYPE OF WORK: TRENCHING / CONDUIT	

REGISTERED PROFESSIONAL  
MARK H. WEBB  
No. 46328  
CIVIL  
STATE OF CALIFORNIA

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

SHEET 17 OF 48

RECEIVED  
 JAN 24 2018  
 SCALE 1"=60'



REMOVE & REPLACE AT COMPLETION OF WORK  
 EXISTING GLUE-DOWN CHANNELIZERS  
 PER SEPARATE CITY OF SAN DIEGO PERMIT

APPROVED ENCROACHMENT PERMIT  
 11-17-647-05163  
 Permit No.:



**APPROVED**  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 DEPT. OF SAN DIEGO  
 Engineering Services  
 Traffic Safety Section

PHASE C - 5

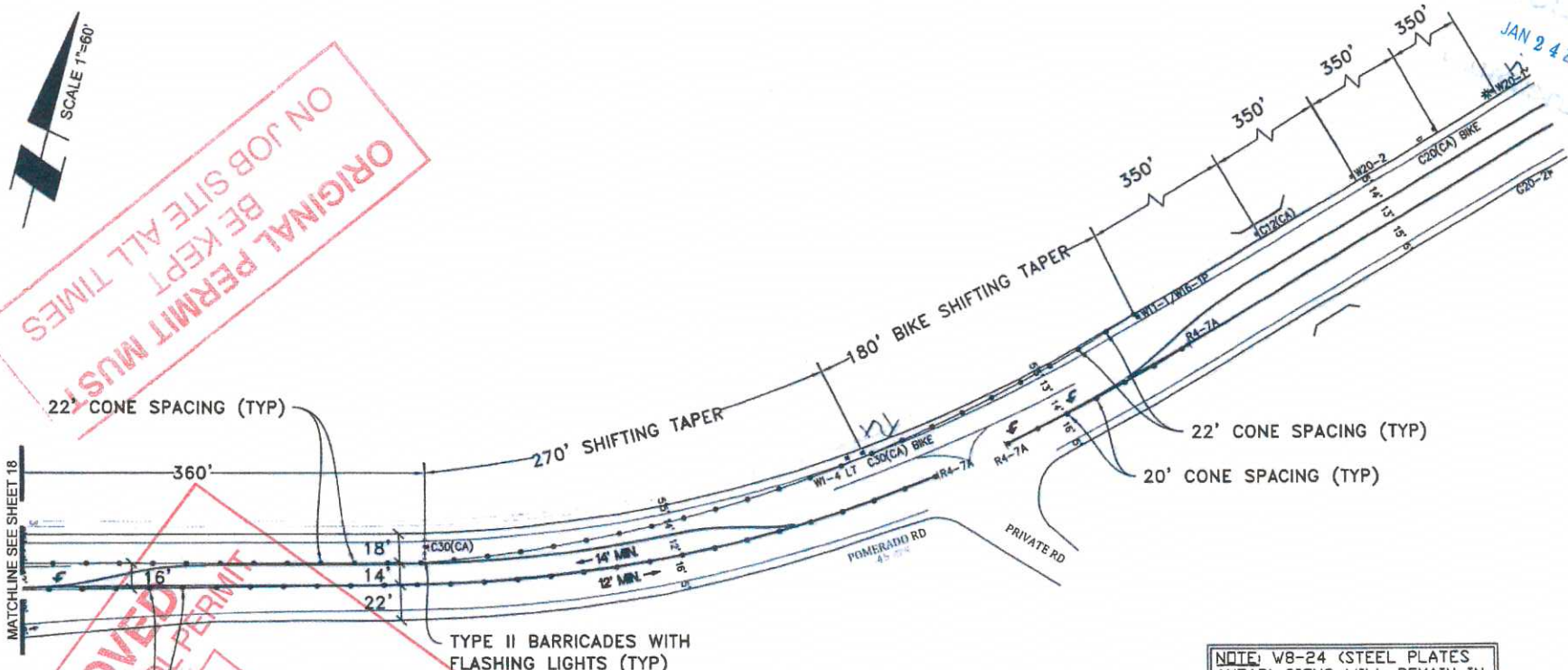
<b>PROJECT NAME:</b> TL23074 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground		<b>DATE:</b> 1/22/2018 <b>DESIGNED:</b> Clint Jones <b>CHECKED BY:</b> Mark Webb	
	<b>Gail McMoran</b> President		<b>AIRX JOB#:</b> X160218 <b>MISC/POTHOLE#:</b> <b>TYPE OF WORK:</b> TRENCHING / CONDUIT
		<b>THOMAS GRID#:</b> 1209-F6 <b>DRAWN FOR:</b> SAN DIEGO	
			<b>SHEET 18 OF 48</b>





**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**

JAN 24 2018



NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

IMPROVED ENCROACHMENT PERMIT  
11-17-66720463  
Permit No.

**APPROVED**  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Control Section

PHASE C - 5

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb



SHEET 19 OF 48

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
2530 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE (760) 480-2347  
CELL (760) 419-3758

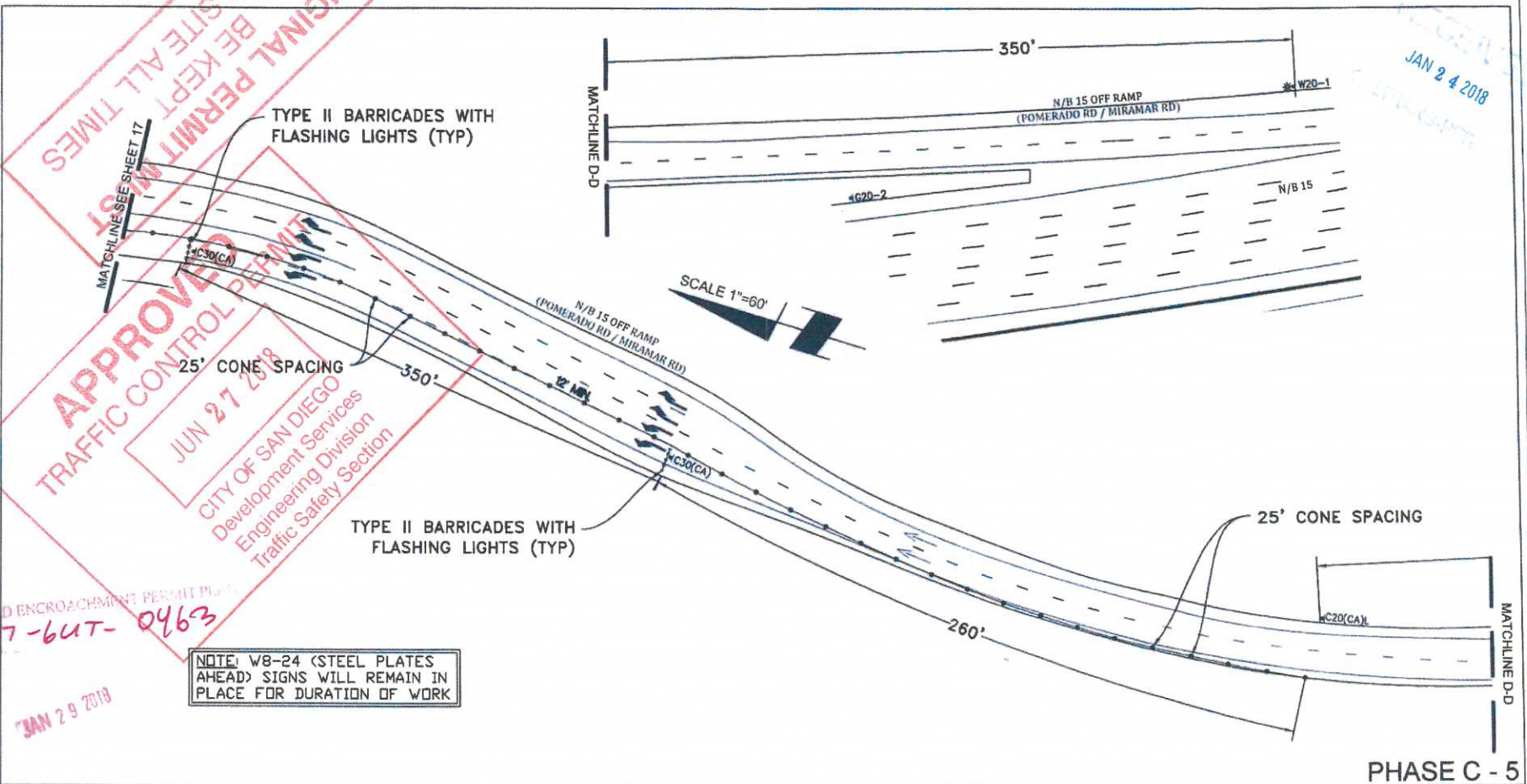
**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P. 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218  
THOMAS GRID#: 1209-F6  
MISC/POTHOLE#:   
DRAWN FOR: SAN DIEGO  
TYPE OF WORK: TRENCHING / CONDUIT

ON JOB SITE ALL TIMES  
 ORIGINAL PERMIT MUST BE KEPT

APPROVED  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

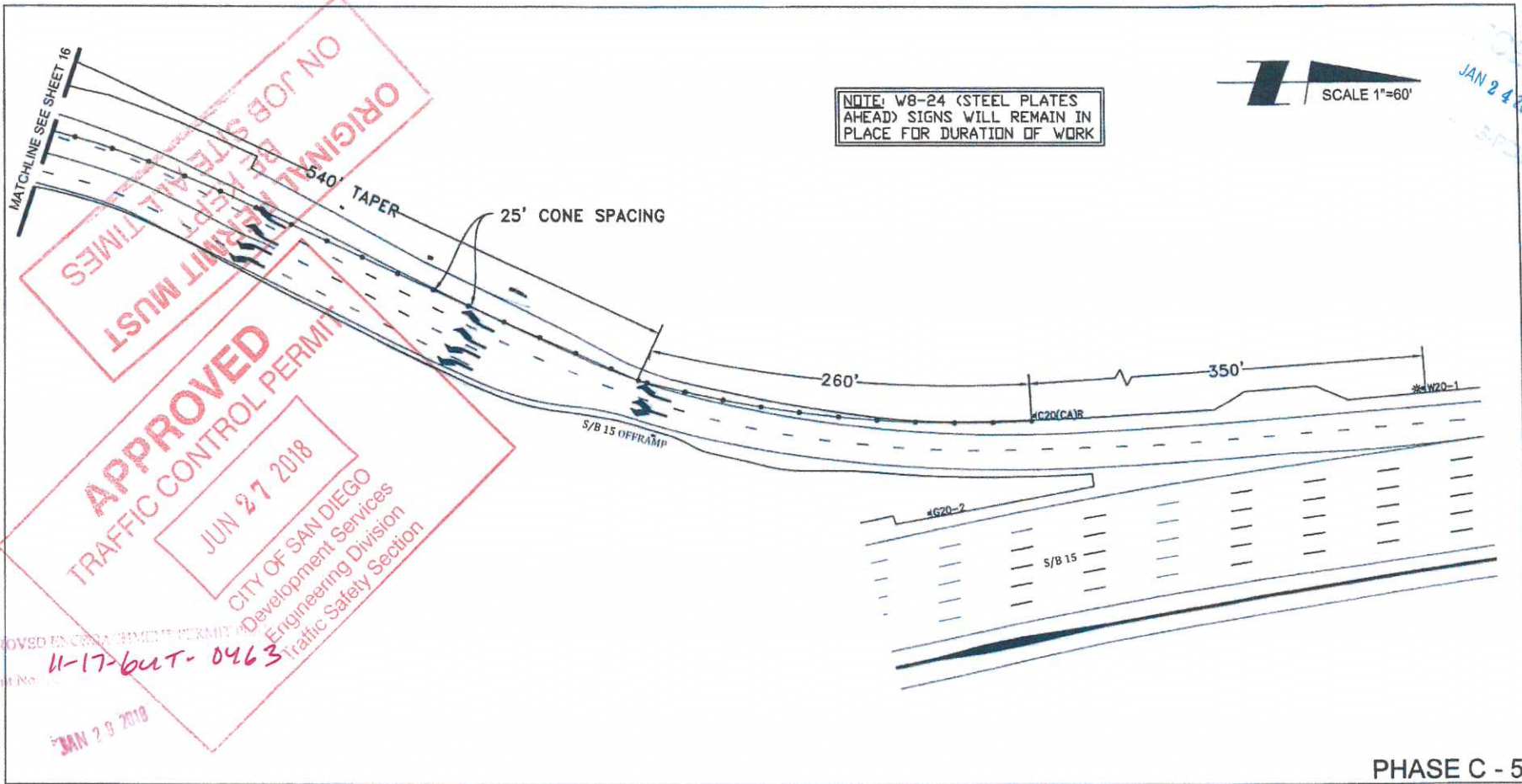
APPROVED ENCROACHMENT PERMIT PL-1  
 11-17-6UT-0463  
 JAN 29 2018



NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

<b>PROJECT NAME:</b> TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground		<b>DATE:</b> 1/22/2018 <b>DESIGNED:</b> Clint Jones <b>CHECKED BY:</b> Mark Webb	
<p>Gail McMorran President</p>	<p>15092 AVENUE OF SCIENCE, SUITE 200 SAN DIEGO, CA 92128 P: 858.385.0500 WWW.NV5.COM</p>	<b>AIRX JOB#:</b> X160218 <b>MISC/POTHOLE#:</b>	<b>THOMAS GRID#:</b> 1209-F6 <b>DRAWN FOR:</b> SAN DIEGO
<b>TYPE OF WORK:</b> TRENCHING / CONDUIT			
		<b>SHEET 20 OF 48</b>	





ORIGINAL PERMIT MUST  
 BE REPRODUCED AT ALL TIMES  
 ON JOB SITE

**APPROVED**  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

APPROVED ENCLOSURE PERMIT  
 Permit No: **11-17-buT-0463**  
 JAN 29 2018

RECEIVED  
 JAN 24 2018

PHASE C - 5

**PROJECT NAME:** TL23071 – Sycamore Canyon Substation To  
 Penasquitos Substation – 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMorrin  
 President  
 2224 EAST EL NORTE PARKWAY SUITE C  
 ESCOBEDO, CA 90527  
 PHONE (760) 480-2347  
 CELL (760) 419-3738

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 THOMAS GRID#: 1209-F6  
 MISC/POTHOLE#: \_\_\_\_\_  
 DRAWN FOR: SAN DIEGO  
 TYPE OF WORK: TRENCHING / CONDUIT



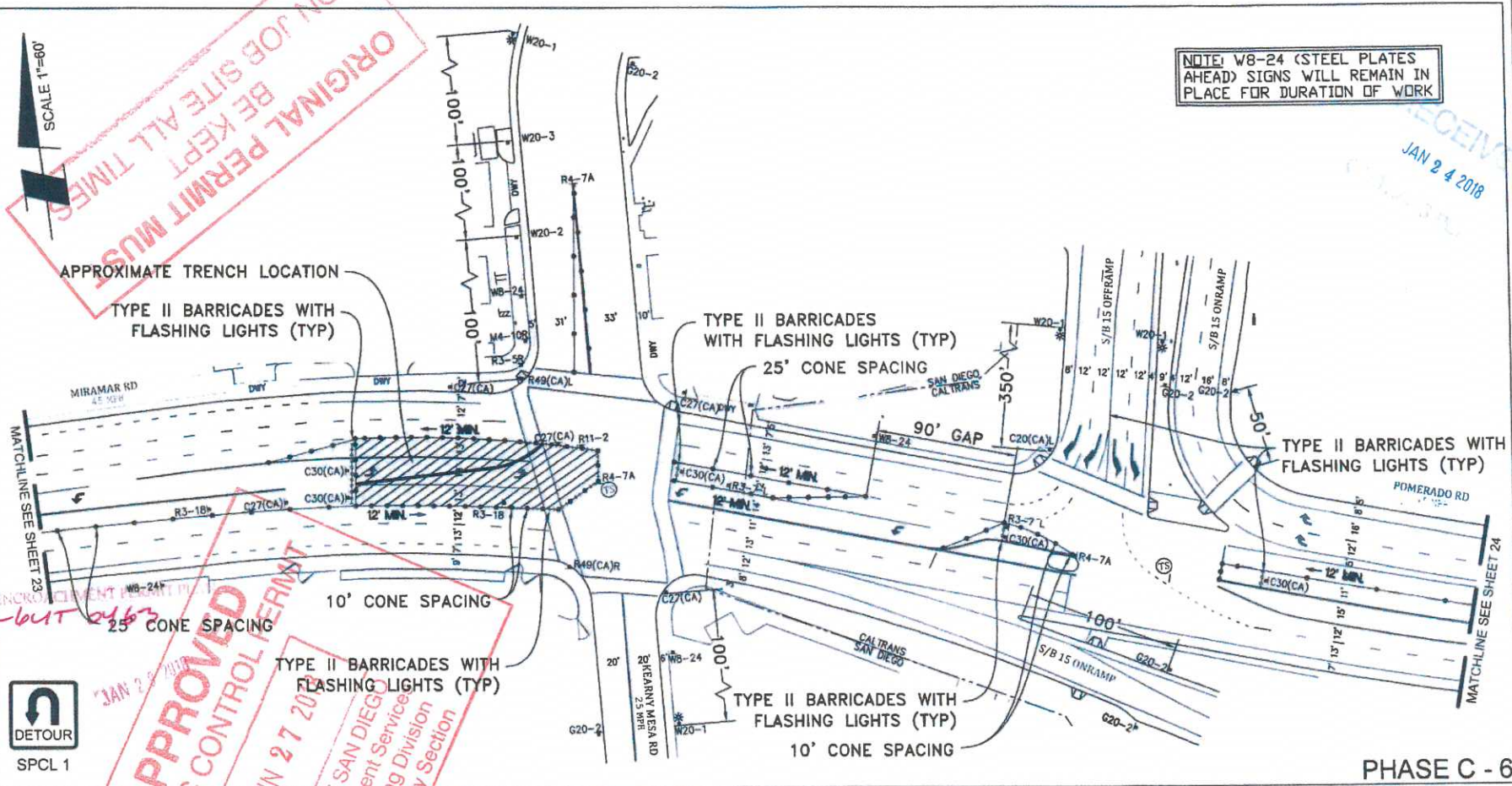
SHEET 21 OF 48

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

RECEIVED  
JAN 24 2018

SCALE 1"=60'

ORIGINAL PERMIT MUST BE KEPT AT ALL TIMES ON JOB SITE



APPROVED ENCLOSURE PERMIT  
11-17-6011 2462  
Permit No.

APPROVED TRAFFIC CONTROL PERMIT  
JAN 27 2018  
SAN DIEGO  
Permitting Services  
Utility Section



PHASE C - 6

PROJECT NAME: TL23071 Sycamore Canyon Substation To Pecosquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYING, INC.  
Gail McMorrin  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE (760) 486-2347  
CELL (760) 419-3728

**NV5**  
15052 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#:   
TYPE OF WORK: TRENCHING / CONDUIT

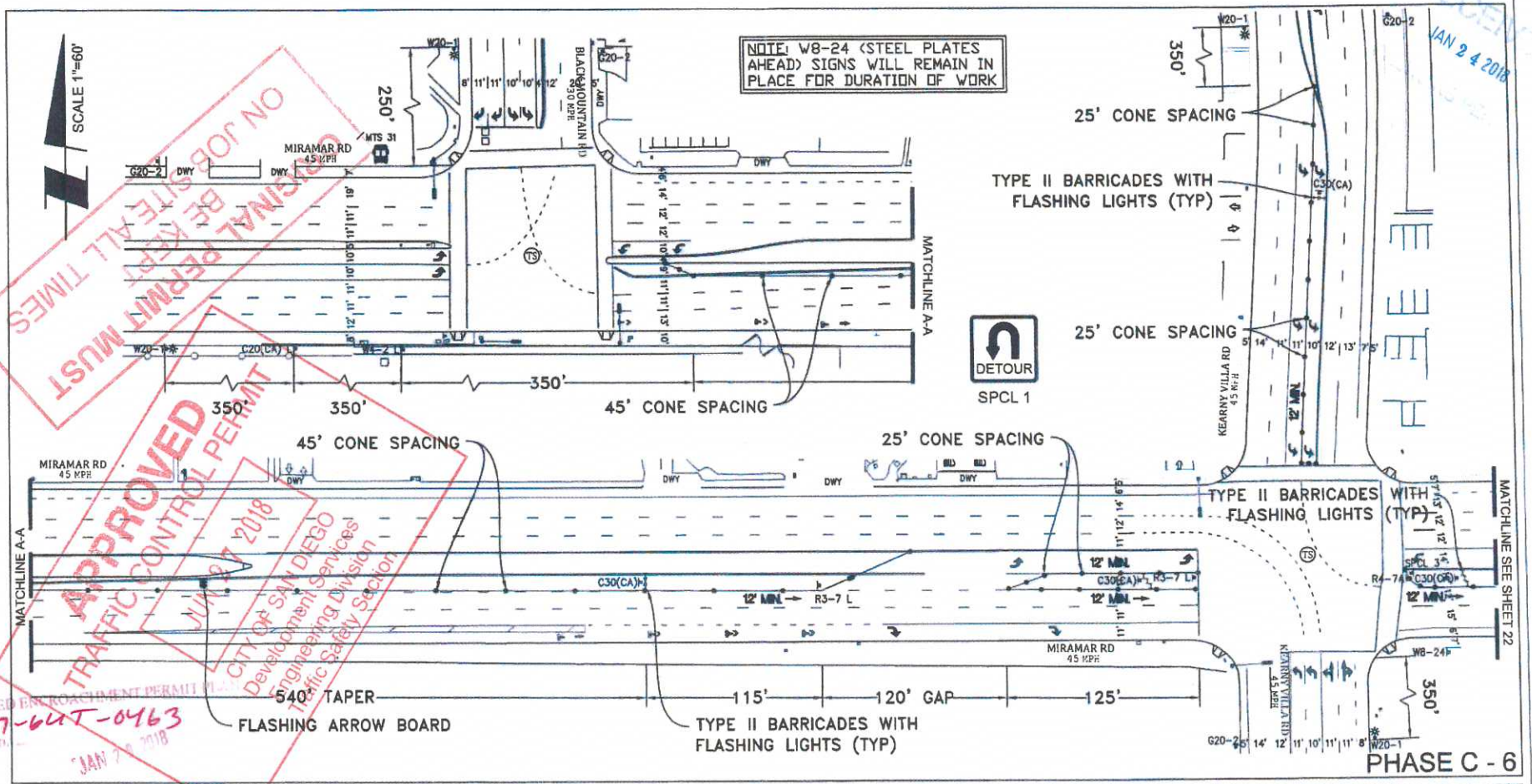
THOMAS GRID#: 1209-F6  
DRAWN FOR: SAN DIEGO



SHEET 22 OF 48



JAN 24 2018



PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb



SHEET 23 OF 48

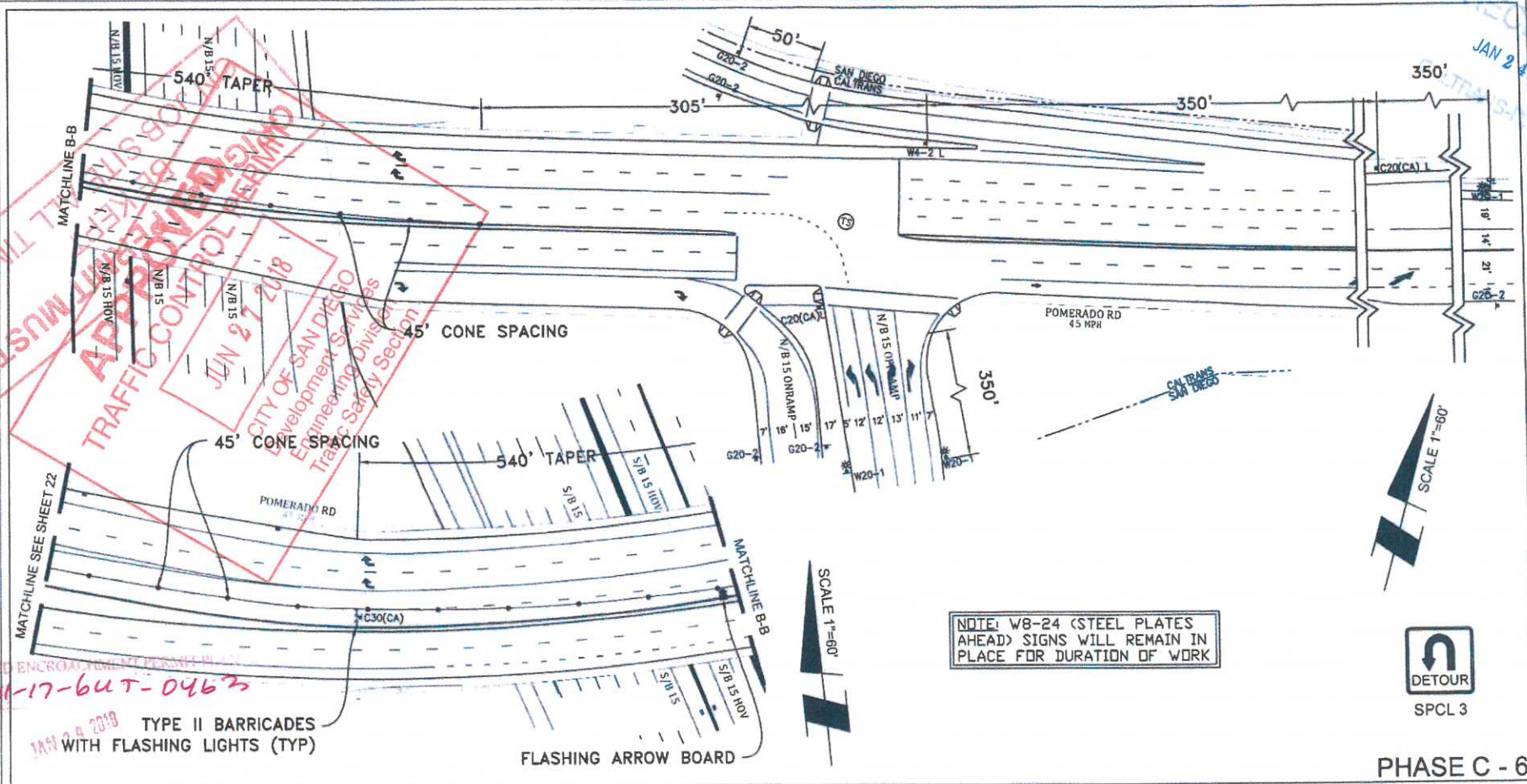
**AIRX** SURVEYORS, INC.  
 Gail McMorrin  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 SAN DIEGO, CA 92127  
 PHONE (760) 480-2347  
 CELL: (760) 418-3738

**NIV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858 385.0500 WWW.NIV5.COM

AIRX JOB#: X160218  
 THOMAS GRID#: 1209-F6  
 MISC/POTHOLE#: \_\_\_\_\_  
 DRAWN FOR: SAN DIEGO  
 TYPE OF WORK: TRENCHING / CONDUIT

JAN 24 2018

TRAFFIC CONTROL TIMES  
APPLY TO ALL TIMES  
APPROVED  
JUN 27 2018  
CITY OF SAN DIEGO  
Development & Services  
Engineering Division  
Traffic Safety Section



SCALE 1"=60'

SCALE 1"=60'

NOTE: W8-24 (STEEL PLATES  
AHEAD) SIGNS WILL REMAIN IN  
PLACE FOR DURATION OF WORK



PHASE C - 6

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMoran  
President

7534 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2547  
CELL: (760) 418-3738

**NV5**

15082 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P. 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#:   
THOMAS GRID#: 1209-F6  
DRAWN FOR: SAN DIEGO

TYPE OF WORK: TRENCHING / CONDUIT



SHEET 24 OF 48



RECEIVED  
JAN 24 2018

SCALE 1"=60'

ON JOB SITE ALL TIMES  
BE KEPT  
ORIGINAL PERMIT MOST

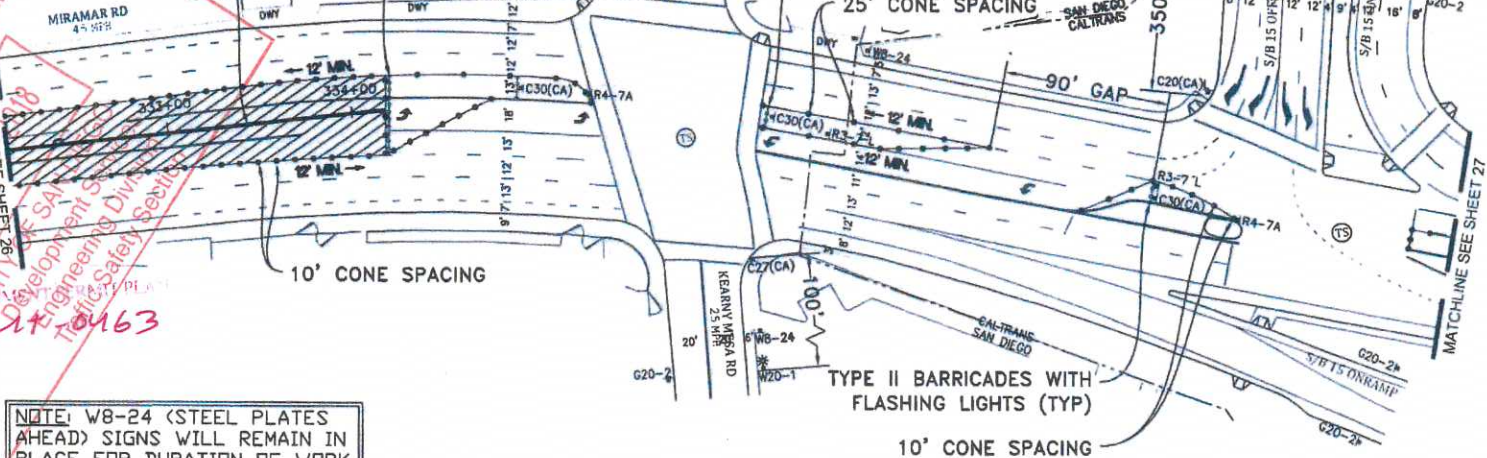
APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 25 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section  
11-17-6211-0463  
Permit No

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)  
APPROXIMATE TRENCH LOCATION

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)  
25' CONE SPACING

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)  
10' CONE SPACING



PHASE C - 7

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
2324 EAST EL NORTE PARWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2347  
CELL: (760) 419-3739

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#:   
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS

REGISTERED PROFESSIONAL ENGINEER  
MARK H. WEBB  
No. 46828  
CIVIL  
STATE OF CALIFORNIA

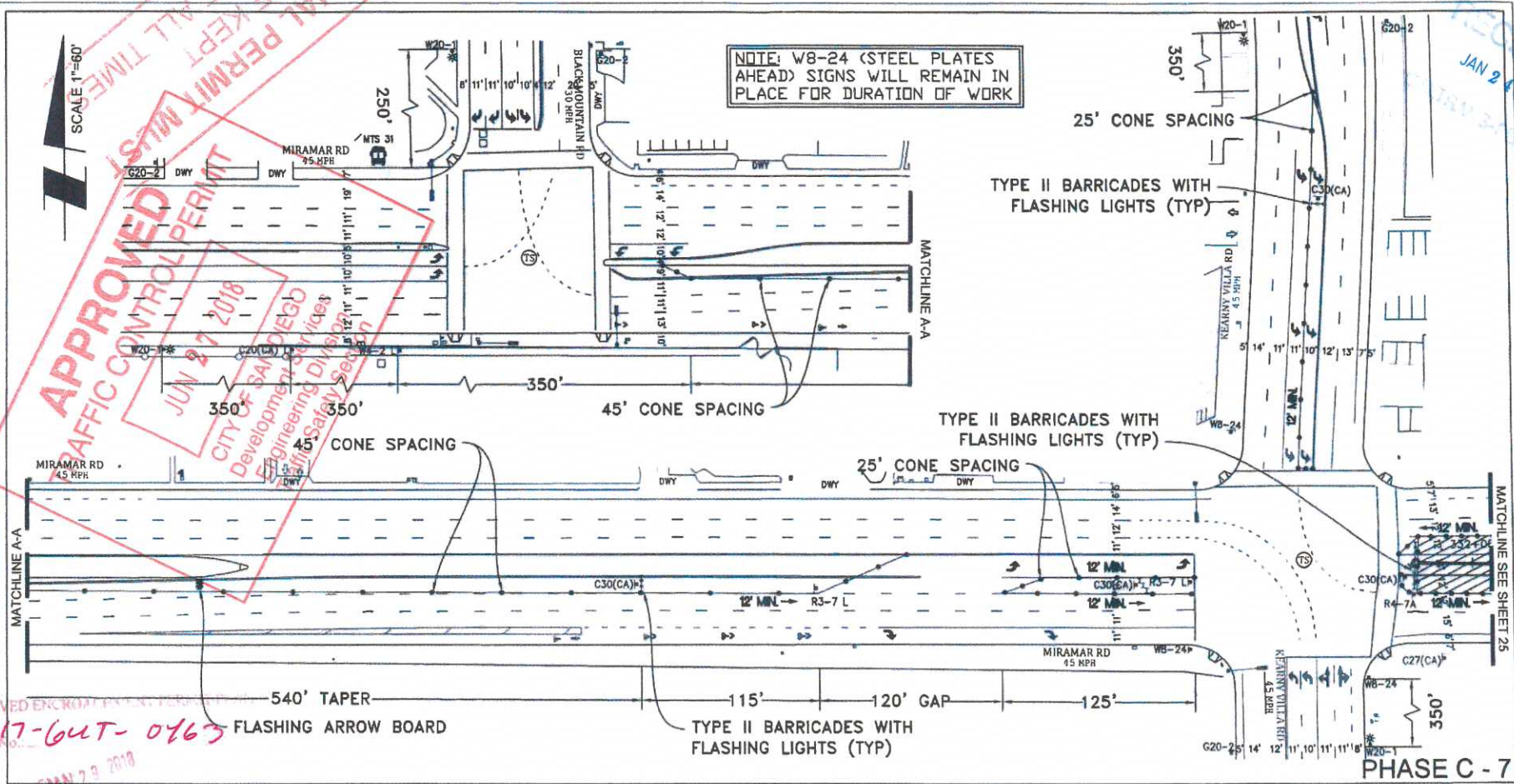
SHEET 25 OF 48

SCALE 1"=60'




NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

RECEIVED  
JAN 24 2018

APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Development & Engineering Services  
Traffic Safety Services

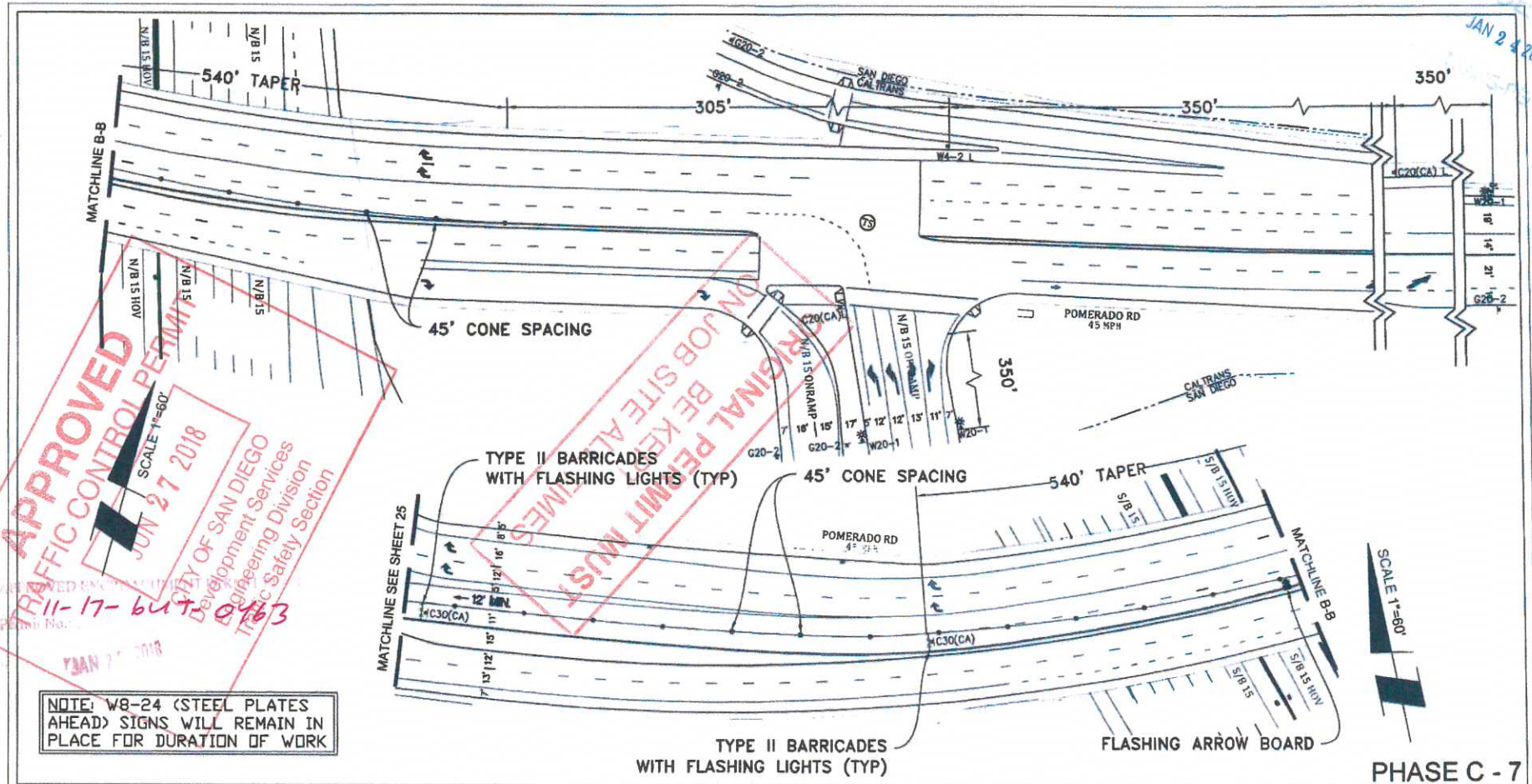


APPROVED ENCLOSURE PERMIT  
11-17-64T-0463  
Permit No. 11-17-64T-0463  
JAN 23 2018

<b>PROJECT NAME:</b> TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground		<b>DATE:</b> 1/22/2018 <b>DESIGNED:</b> Clint Jones <b>CHECKED BY:</b> Mark Webb	
 <b>AIRX</b> SURVEYORS, INC. Gail McMorran President 7524 SASI EL NORTE PARKWAY SUITE C ESCOBARDO, CA 92027 PHONE: (760) 480-2347 CELL: (760) 419-3728	 <b>NVIS</b> 15092 AVENUE OF SCIENCE, SUITE 200 SAN DIEGO, CA 92128 P: 858 385 0500 WWW.NVIS.COM	<b>AIRX JOB#:</b> X160218 <b>MISC/POTHOLE#:</b> <b>TYPE OF WORK:</b> TRENCHING / CONDUIT	<b>THOMAS GRID#:</b> 1209-F <b>DRAWN FOR:</b> CALTRANS 
		<b>SHEET 26 OF 48</b>	



JAN 24 2018



**APPROVED**  
**TRAFFIC CONTROL PERMIT**  
 SCALE 1"=60'  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

**ORIGINAL PERMIT MUST**  
**BE KEPT AT JOB SITE ALL TIMES**

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

PHASE C - 7

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYING, INC.  
 Gail McMoran  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 ESCONDIDO, CA 92027  
 PHONE: (760) 485-2347  
 CELL: (760) 418-3778

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858 385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHOLE#: \_\_\_\_\_  
 TYPE OF WORK: TRENCHING / CONDUIT

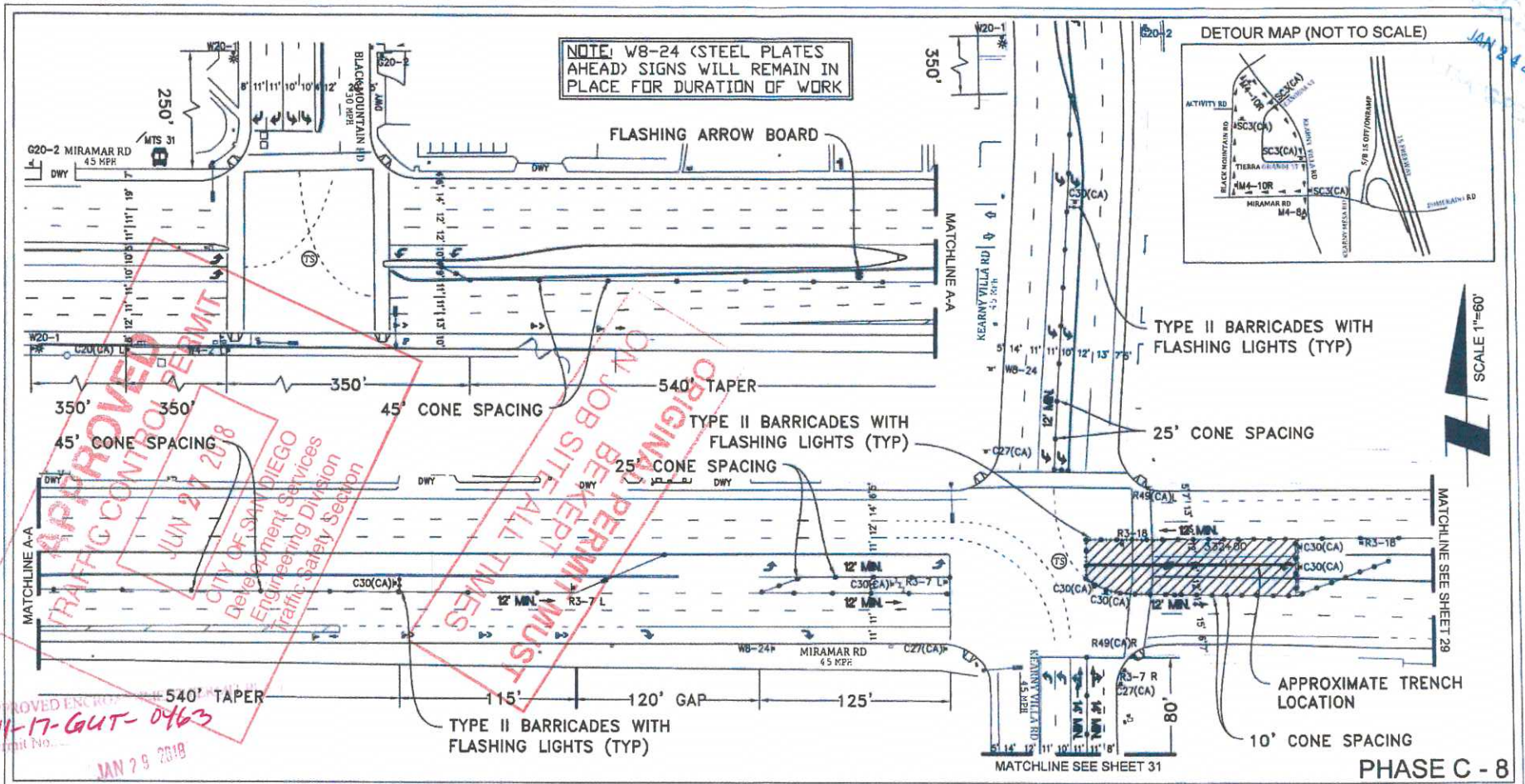
THOMAS GRID#: 1209-F6  
 DRAWN FOR: CALTRANS



DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

SHEET 27 OF 48





JAN 24 2018

**APPROVED PERMIT**  
**TRAFFIC CONTROL PERMIT**  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Department Services  
 Engineering Division  
 Traffic Safety Section

APPROVED ENCLOSURE  
 11-17-GUT-0463  
 Permit No. ...  
 JAN 29 2018

<b>PROJECT NAME:</b> TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground		<b>DATE:</b> 1/22/2018 <b>DESIGNED:</b> Clint Jones <b>CHECKED BY:</b> Mark Webb	
<b>AIRX</b> SURVEYORS, INC. Gail McMoran President 264 EAST EL NORTE PARKWAY SUITE C ESCONDIDO, CA 92027 PHONE: (760) 489-2247 CELL: (760) 419-3728	<b>NVS</b> 15092 AVENUE OF SCIENCE, SUITE 200 SAN DIEGO, CA 92128 P: 656.385.0500 WWW.NVS.COM	<b>AIRX JOB#:</b> X160218	<b>THOMAS GRID#:</b> 1209-F6
		<b>MISC/POTHOLE#:</b>	<b>DRAWN FOR:</b> CALTRANS
<b>TYPE OF WORK:</b> TRENCHING / CONDUIT		<b>SHEET 28 OF 48</b>	





JAN 24 2018



TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)  
25' CONE SPACING

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)  
25' CONE SPACING

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)  
10' CONE SPACING

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Department Services  
Engineering Division  
Safety Section

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE AT ALL TIMES

PHASE C - 8

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb



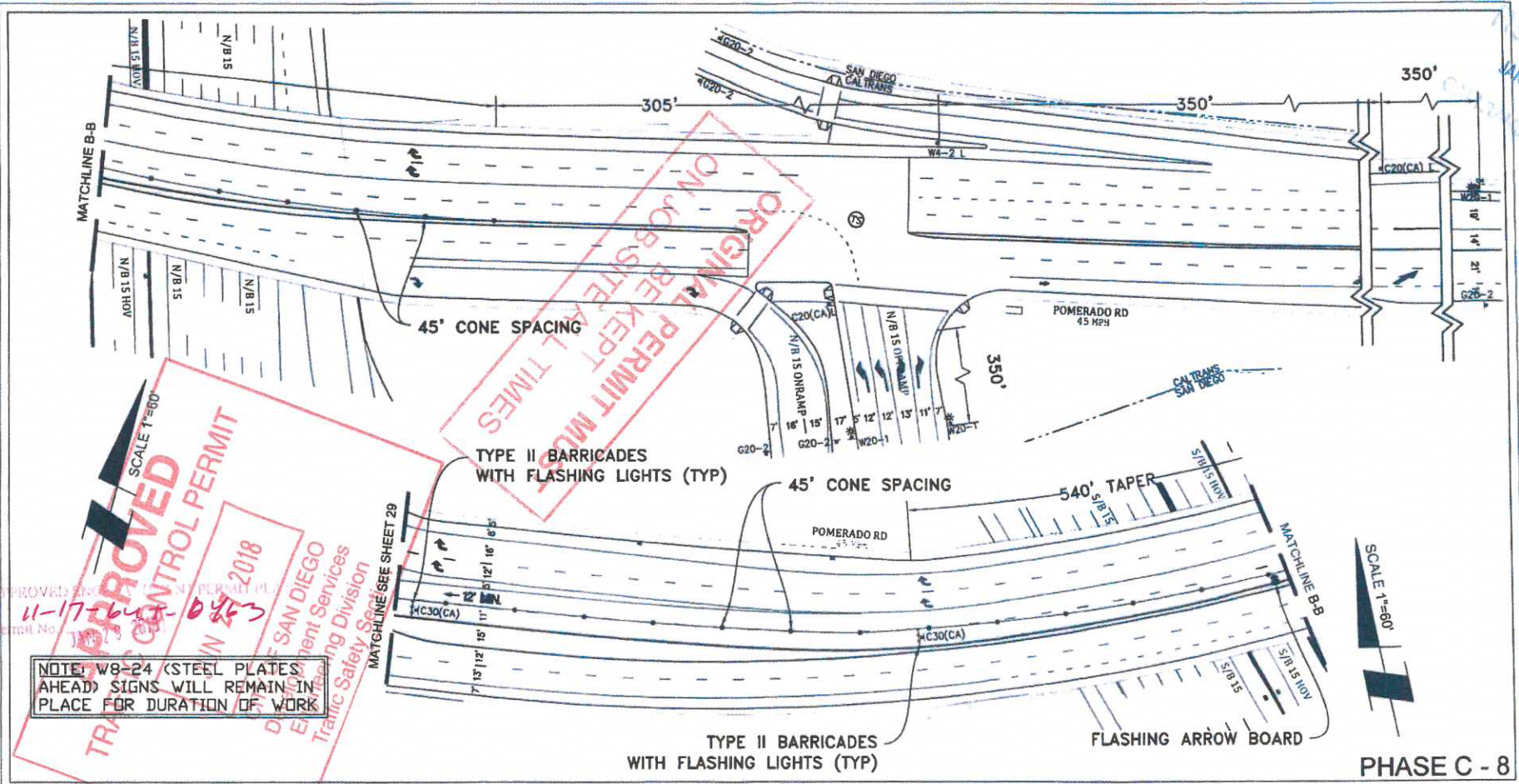
SHEET 29 OF 48

AIRX SURVEYORS, INC  
Gail McMorrin  
President  
2541 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE (760) 480-2347  
CELL (760) 418-3738

NIV5  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NIV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#:   
THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS  
TYPE OF WORK: TRENCHING / CONDUIT

RECEIVED  
JAN 24 2018  
CALTRANS



APPROVED  
11-17-2018  
CONTROL PERMIT  
SAN DIEGO  
Permit No. 11-17-2018-0453  
Traffic Safety Services  
Engineering Division

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

PHASE C - 8

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb



SHEET 30 OF 48

**AIRX** SURVEYING, INC.  
Gail McMoran  
President  
7534 EAS\* EL NORTE PARKWAY SUITE C  
88204380, CA 92027  
PHONE (760) 480 2347  
CELL (760) 419 3728

**NIVIS**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NIVIS.COM

AIRX JOB#: X160218  
MISC/POTHOLE#:   
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F  
DRAWN FOR: CALTRANS



RECEIVED  
JAN 24 2018

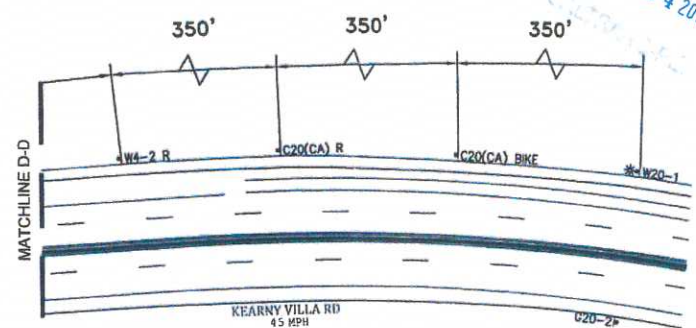
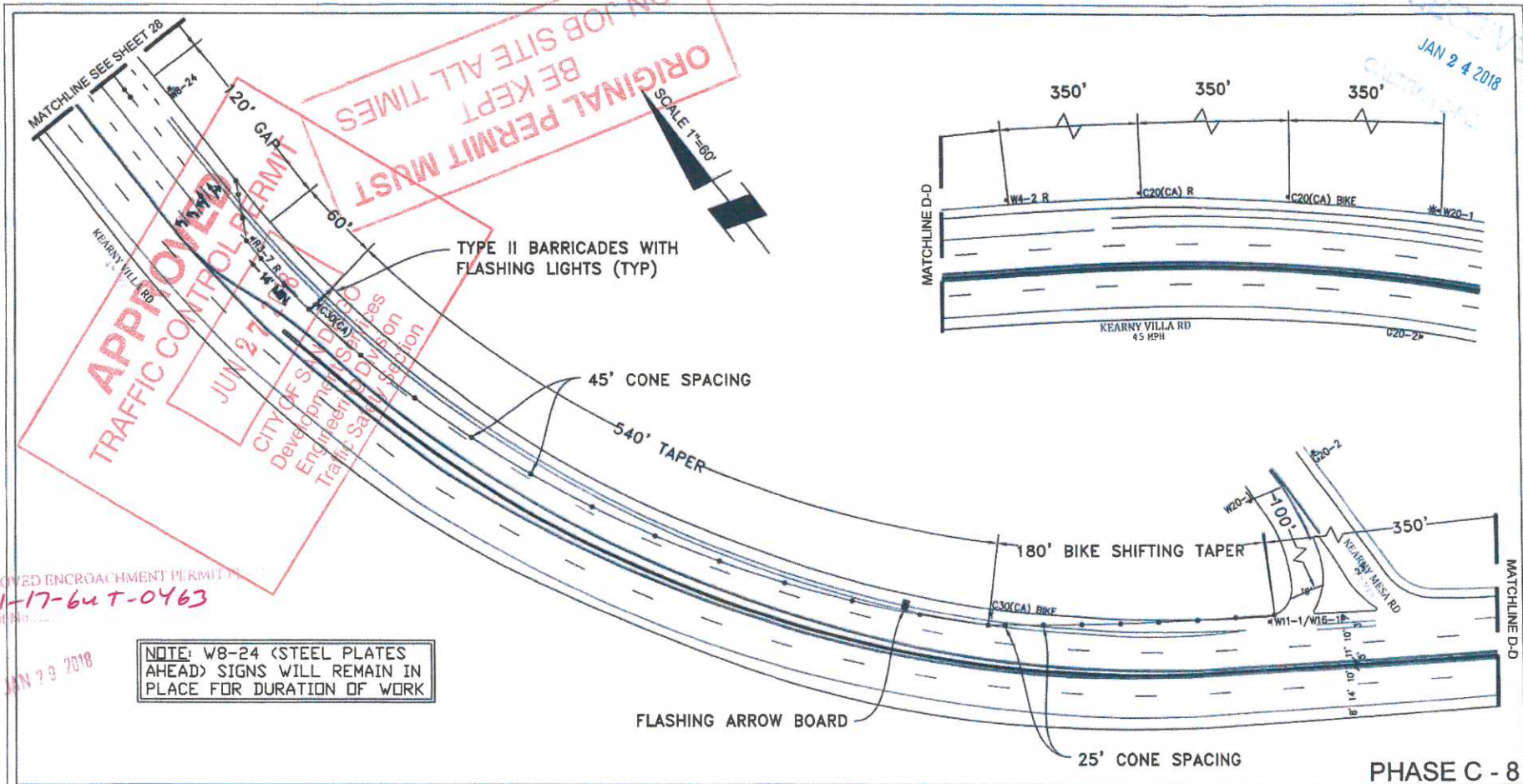
ON JOB SITE ALL TIMES  
ORIGINAL PERMIT MUST  
BE KEPT

APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Division

APPROVED ENCROACHMENT PERMIT  
11-17-64 T-0463  
Permit No. ...

JAN 29 2018

NOTE: W8-24 (STEEL PLATES  
AHEAD) SIGNS WILL REMAIN IN  
PLACE FOR DURATION OF WORK



PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYS, INC.  
Gall McMorran  
President  
2334 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 485-2347  
CELL: (760) 419-3728

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858 385.0500 WWW.NV5.COM

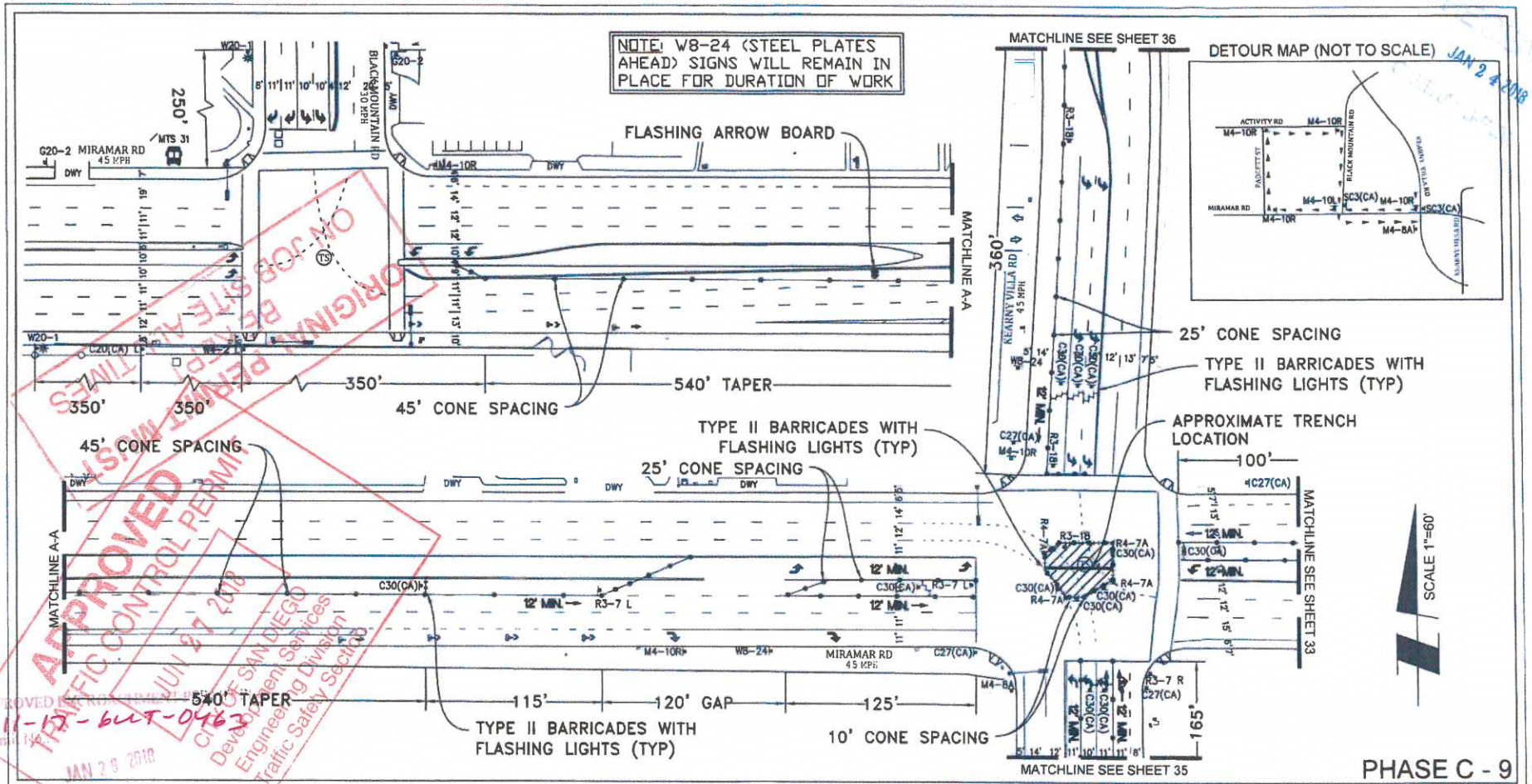
AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS



DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

SHEET 31 OF 48



APPROVED  
 ORIGINAL PERMIT SITE  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 CIVIL ENGINEER  
 DEVON D. SMYTH  
 Engineering Services  
 Traffic Safety Services

11-17-667-0463  
 JAN 29 2018

**PROJECT NAME:** TL23071 – Sycamore Canyon Substation To Penasquitos Substation – 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMoran  
 President  
 2934 EAST EL NORTE PARKWAY SUITE C  
 ESCONDIDO CA 92027  
 PHONE: (760) 460-2547  
 CELL: (760) 419-3726

**NIV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 658 385 0500 WWW.NIV5.COM

AIRX JOB#: X160218

THOMAS GRID#: 1209-F6

MISC/POTHOLE#:

DRAWN FOR: CALTRANS

TYPE OF WORK: TRENCHING / CONDUIT



**SHEET 32 OF 48**



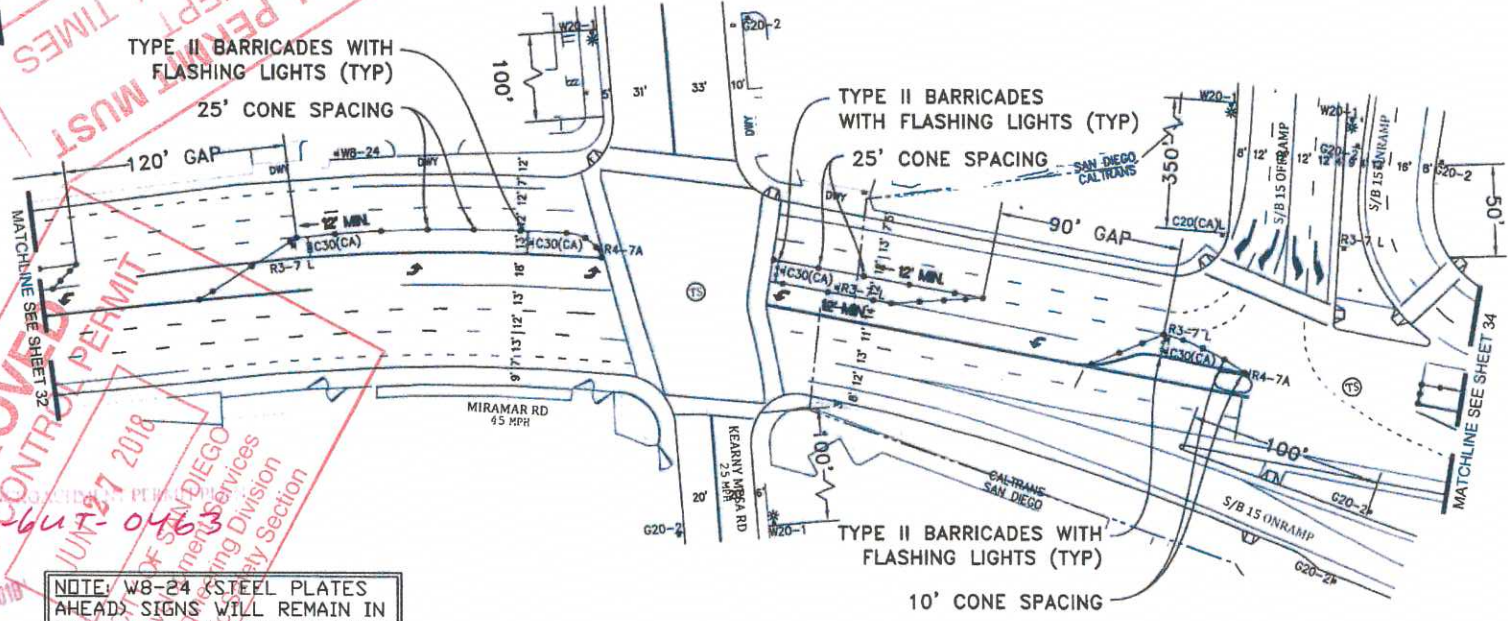
RECEIVED  
JAN 24 2018  
CLT

SCALE 1"=60'

ORIGINAL PERMIT MUST BE KEPT ALL TIMES ON JOB SITE

APPROVED  
TRAFFIC CONTROL PERMIT  
JUL 27 2018  
64-0463

NOTE: W8-24 STEEL PLATES AHEAD SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK



PHASE C - 9

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
Pres/owner  
251 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2047  
CELL: (760) 418-3728

**NIV5**  
15082 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NIV5.COM

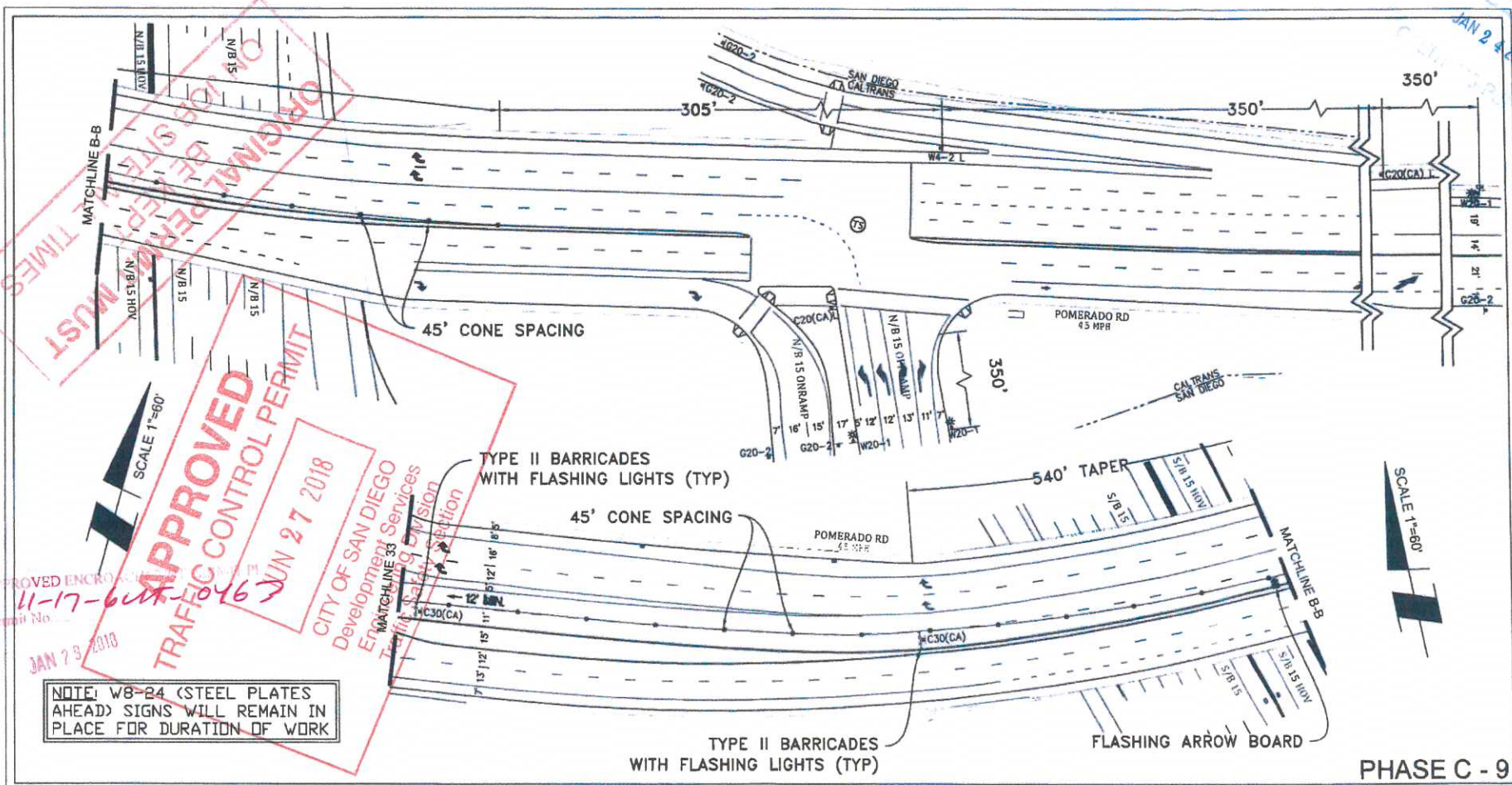
AIRX JOB#: X160218  
MISC/POTHOLES#:   
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS



SHEET 33 OF 48

JAN 24 2018



**APPROVED**  
**TRAFFIC CONTROL PERMIT**  
 JUN 27 2018

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

PHASE C - 9

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMorran  
 President  
 2534 EAST EL NORTE PARKWAY SUITE C  
 ESCOBEDO, CA 92027  
 PHONE: (760) 480-2347  
 CELL: (760) 418-3726

**NV5**  
 15082 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 658 365 0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHoles#: \_\_\_\_\_  
 TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
 DRAWN FOR: CALTRANS

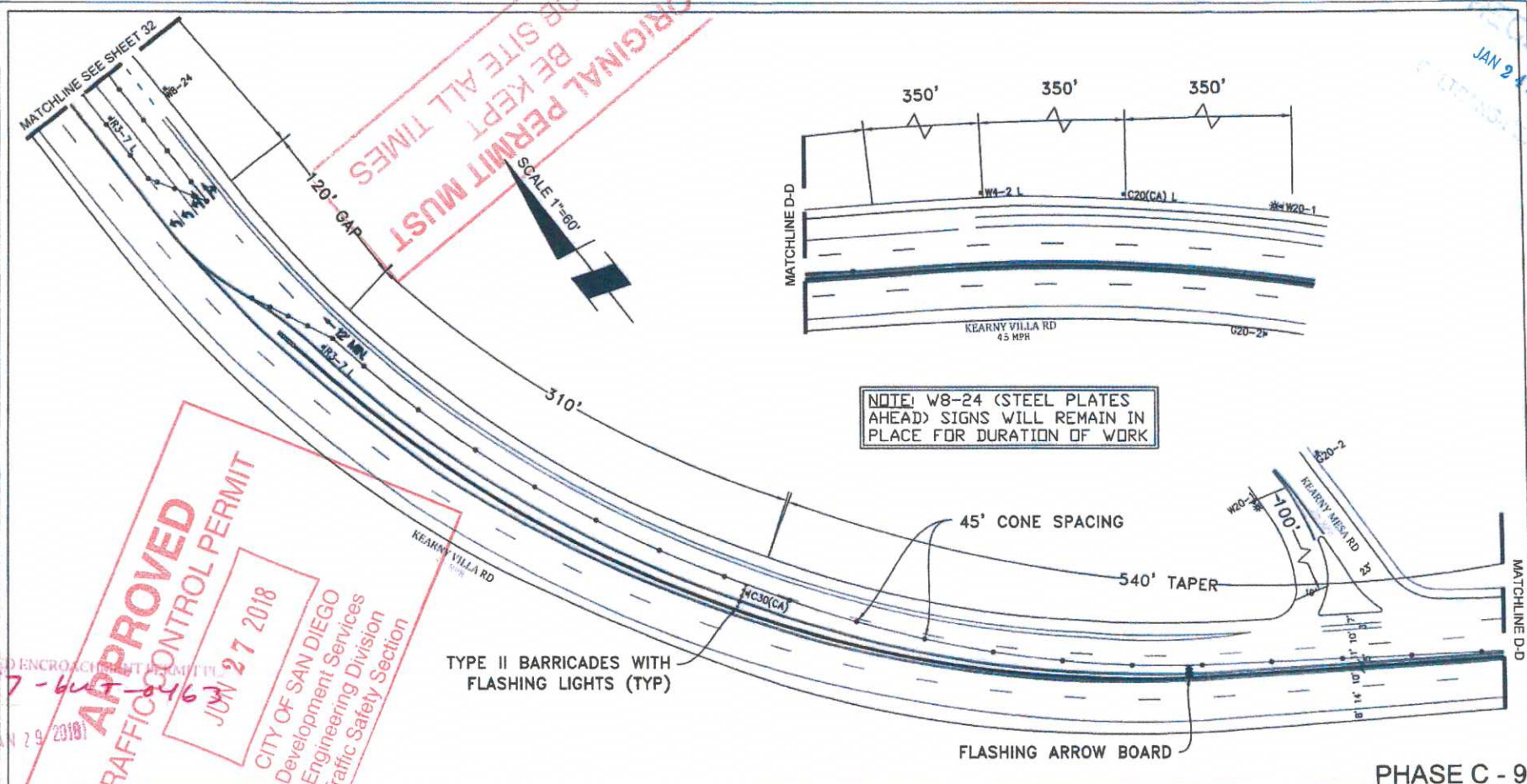


SHEET 34 OF 48



RECEIVED  
JAN 24 2018  
FIELD

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES



APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

IMPROVED ENCROACHMENT PERMIT  
11-17-6447-8463  
Permit No.  
JAN 29 2018

PHASE C - 9

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

AIRX  
Gail McMorrin  
President  
2534 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2347  
CELL: (760) 418-3758

NIV5  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P. 858.385.0500 WWW.NIV5.COM

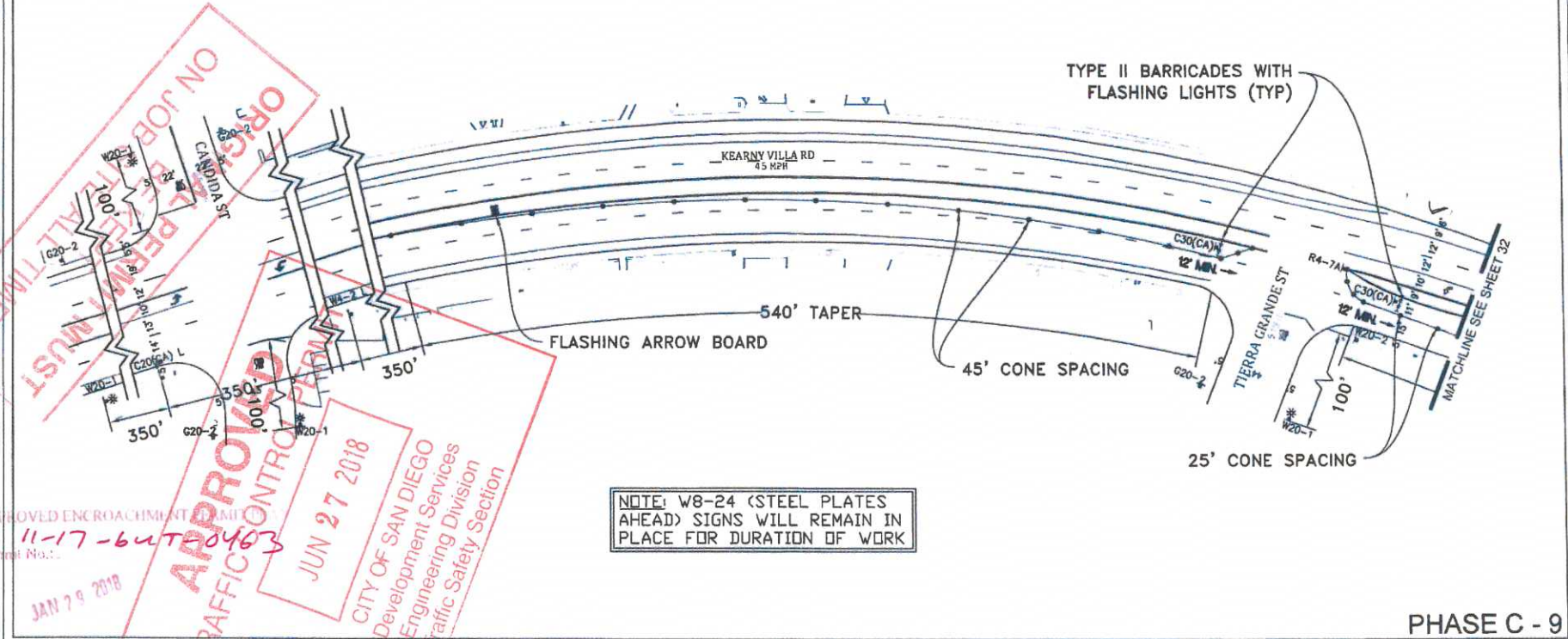
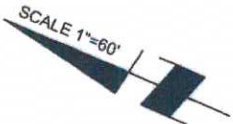
AIRX JOB#: X160218  
MISC/POTHOLE#:   
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS



DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb  
SHEET 35 OF 48

JAN 24 2018  
CLINT JONES



NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

ON JOB PERMITS MUST BE REMOVED ENCR OCHMENT PERMITS  
11-17-64T-0463  
APPROVED  
TRAFFIC CONTROL PLAN  
JUN 27 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

PHASE C - 9

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
25M EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO CA 92027  
PHONE (760) 480-2247  
CELL (760) 419-9738

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NV5.COM

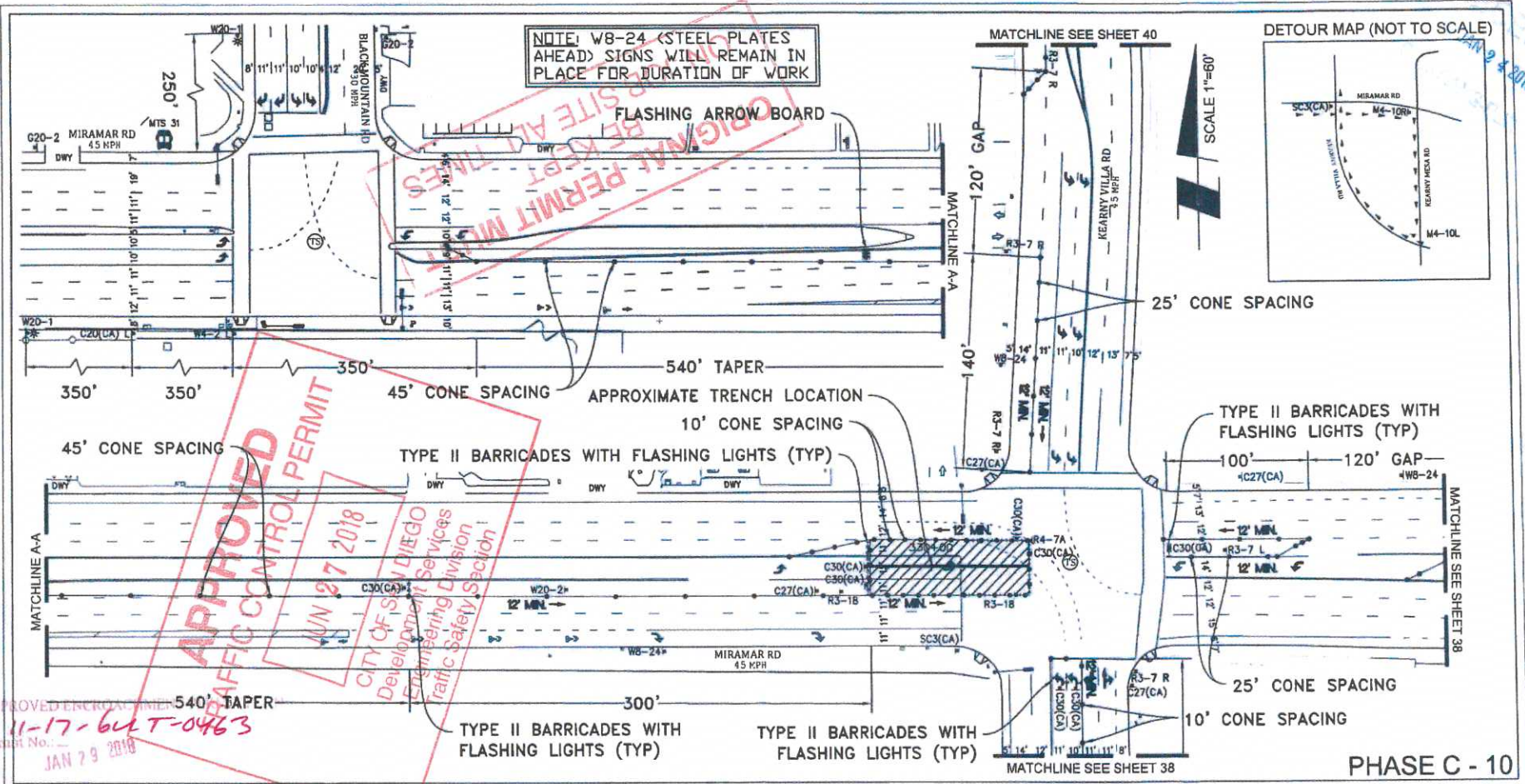
AIRX JOB#: X160218  
MISC/POTHOLE#:   
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS



SHEET 36 OF 48





PHASE C - 10

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

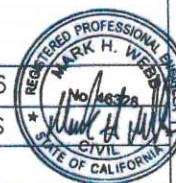
**AIRX** SURVEYORS, INC.  
 Gail McMorran  
 President  
 2334 EAST EL NORTE PARKWAY SUITE C  
 ESCONDIDO, CA 92027  
 PHONE: (760) 480-2347  
 CELL: (760) 419-3728

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHOLE#: \_\_\_\_\_

THOMAS GRID#: 1209-F6  
 DRAWN FOR: CALTRANS

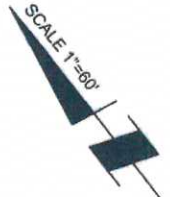
TYPE OF WORK: TRENCHING / CONDUIT



SHEET 37 OF 48



JAN 24 2018



ON JOB SITE ALL TIMES  
ORIGINAL PERMIT MUST  
BE PRESENT

APPROVED  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

TYPE II BARRICADES WITH  
FLASHING LIGHTS (TYP)  
25' CONE SPACING

TYPE II BARRICADES WITH  
FLASHING LIGHTS (TYP)  
25' CONE SPACING

TYPE II BARRICADES WITH  
FLASHING LIGHTS (TYP)  
25' CONE SPACING

TYPE II BARRICADES WITH  
FLASHING LIGHTS (TYP)  
10' CONE SPACING

NOTE: W8-24 (STEEL PLATES  
AHEAD) SIGNS WILL REMAIN IN  
PLACE FOR DURATION OF WORK



PHASE C - 10

APPROVED ENCROACHMENT PERMIT PLAN  
11-17-64 T-0463  
Permit No.:

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYORS, INC.  
Gail McMoran  
President  
2534 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 460-2947  
CELL: (760) 419-3728

**NIV5**  
15082 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6  
DRAWN FOR: CALTRANS

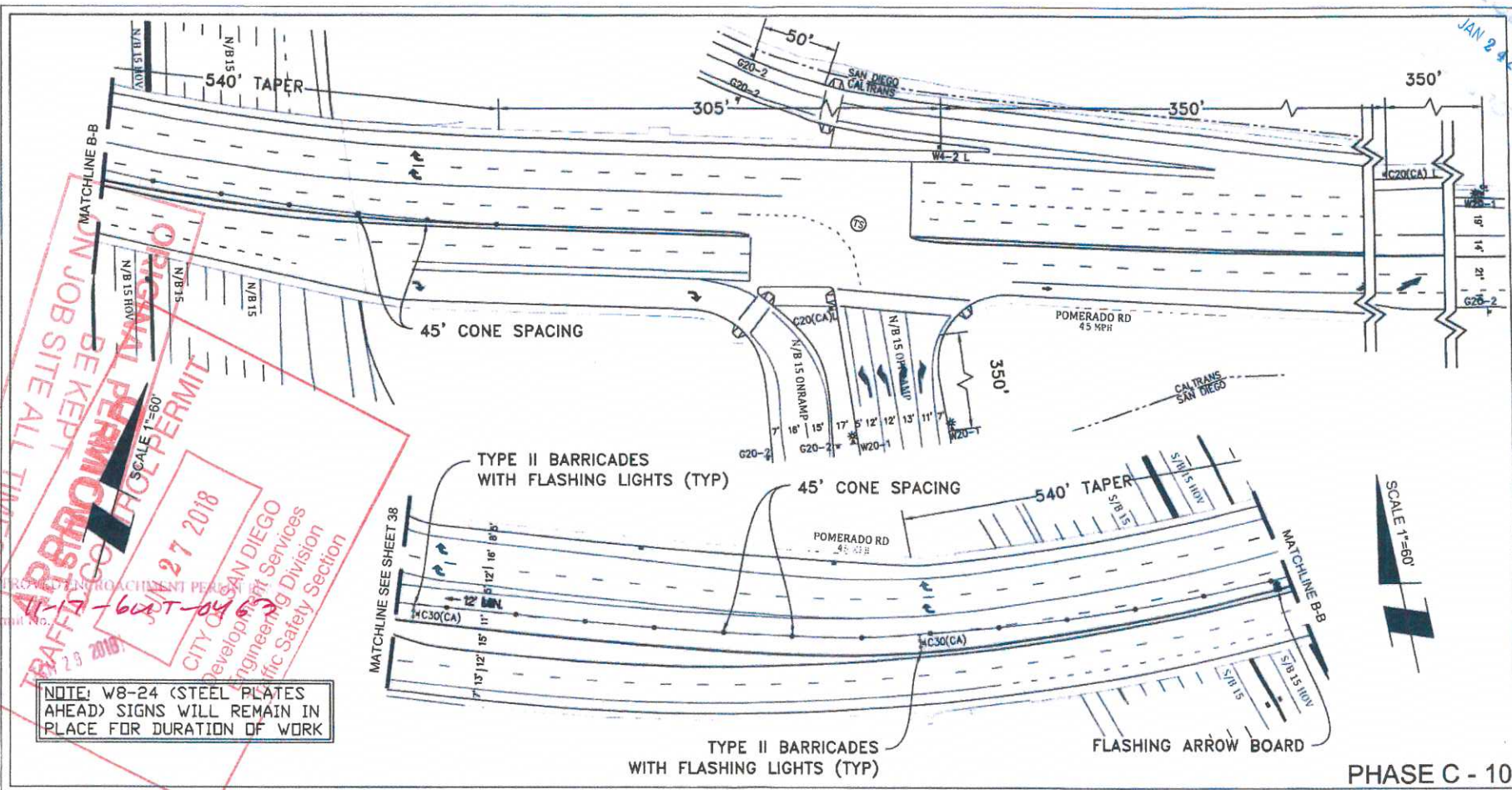


DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

SHEET 38 OF 48



JAN 24 2018



SCALE 1"=60'

PHASE C - 10

APPROVED FOR PERMIT  
 TRAFFIC CONTROL PERMIT  
 SCALE 1"=60'  
 JAN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

APPROVED FOR PERMIT  
 TRAFFIC CONTROL PERMIT  
 SCALE 1"=60'  
 JAN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

APPROVED FOR PERMIT  
 TRAFFIC CONTROL PERMIT  
 SCALE 1"=60'  
 JAN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

APPROVED FOR PERMIT  
 TRAFFIC CONTROL PERMIT  
 SCALE 1"=60'  
 JAN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

APPROVED FOR PERMIT  
 TRAFFIC CONTROL PERMIT  
 SCALE 1"=60'  
 JAN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb



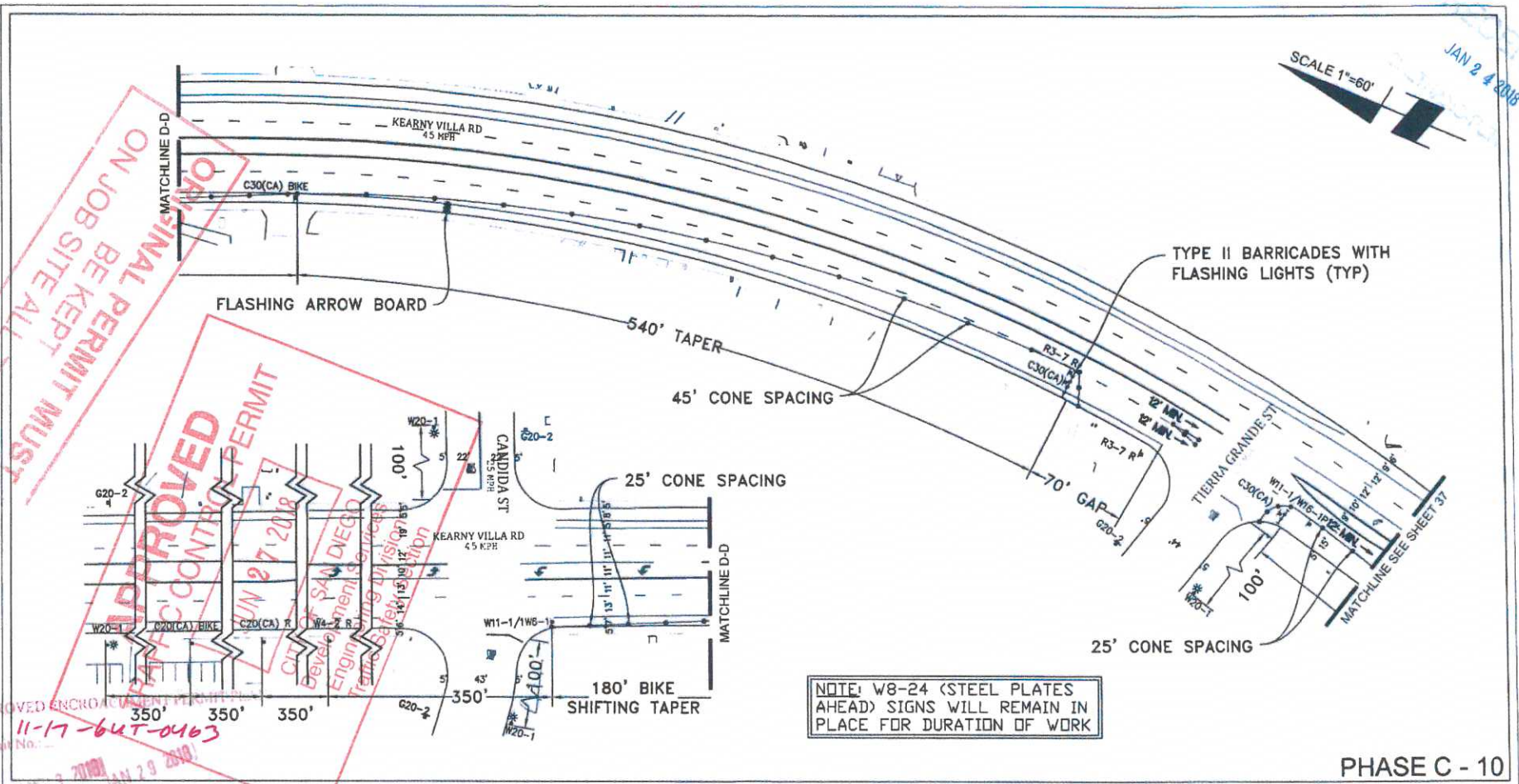
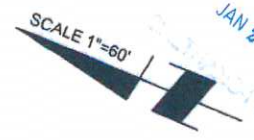
SHEET 39 OF 48

**AIRX** SURVEYING, GPS, INC.  
 Gail McMorrin  
 President  
 2534 EAST EL NORTE PARKWAY SUITE C  
 ESCOBEDO, CA 92027  
 PHONE: (760) 489-2347  
 CELL: (760) 419-3738

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858 385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHOLE#:   
 THOMAS GRID#: 1209-F6  
 DRAWN FOR: CALTRANS  
 TYPE OF WORK: TRENCHING / CONDUIT

JAN 24 2018



ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES

APPROVED CONTRACT PERMIT

APPROVED ENCROACHMENT PERMIT

11-17-64T-0463  
Permit No.:

PHASE C - 10

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb



SHEET 40 OF 48

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
7534 EAST EL NORTE PARKWAY SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2947  
CELL: (760) 419-3716

**NIVIS**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NIVIS.COM

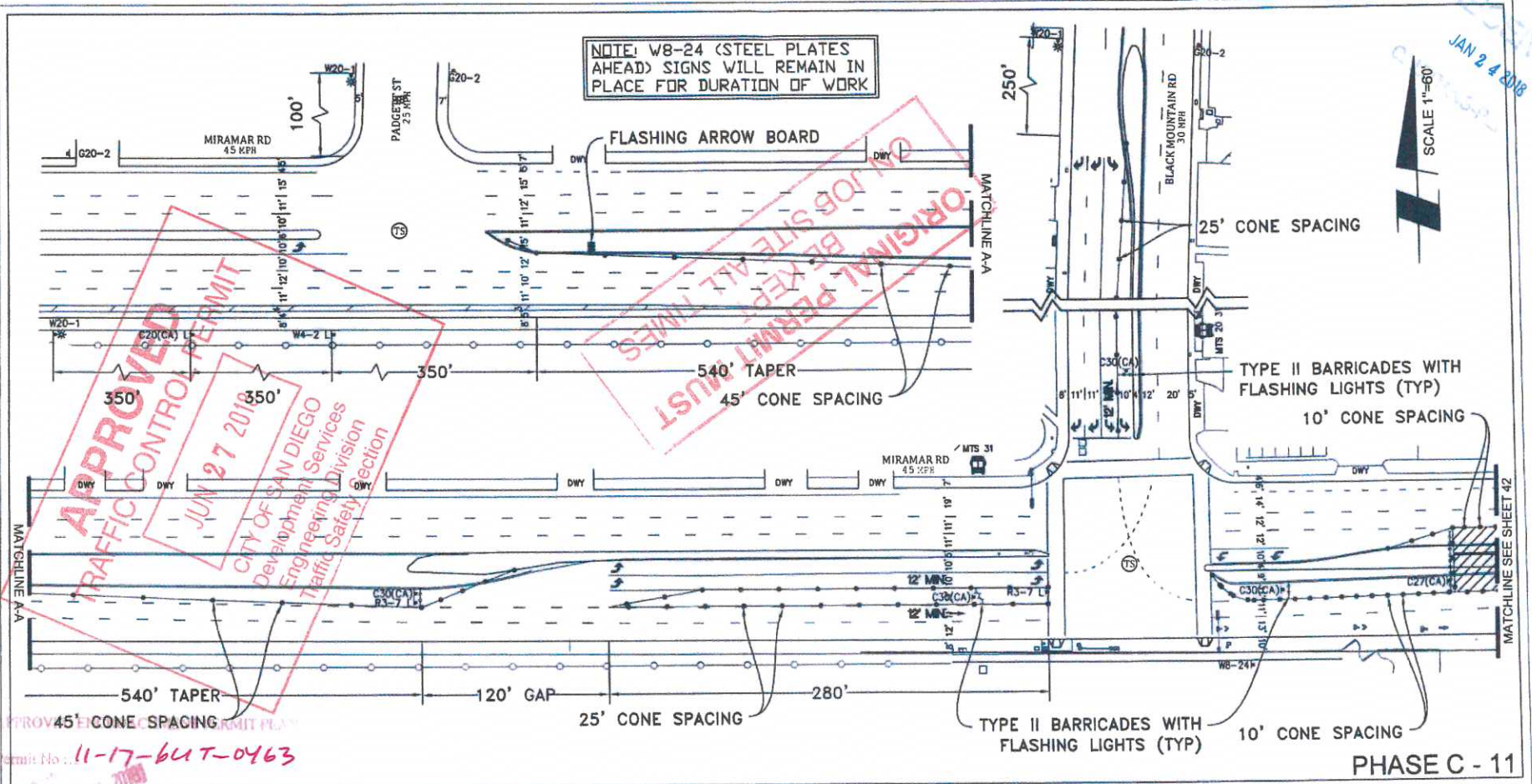
AIRX JOB#: X160218	THOMAS GRID#: 1209-F6
MISC/POTHOLE#:	DRAWN FOR: CALTRANS
TYPE OF WORK: TRENCHING / CONDUIT	



JAN 24 2018



NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK



PHASE C - 11

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb



SHEET 41 OF 48

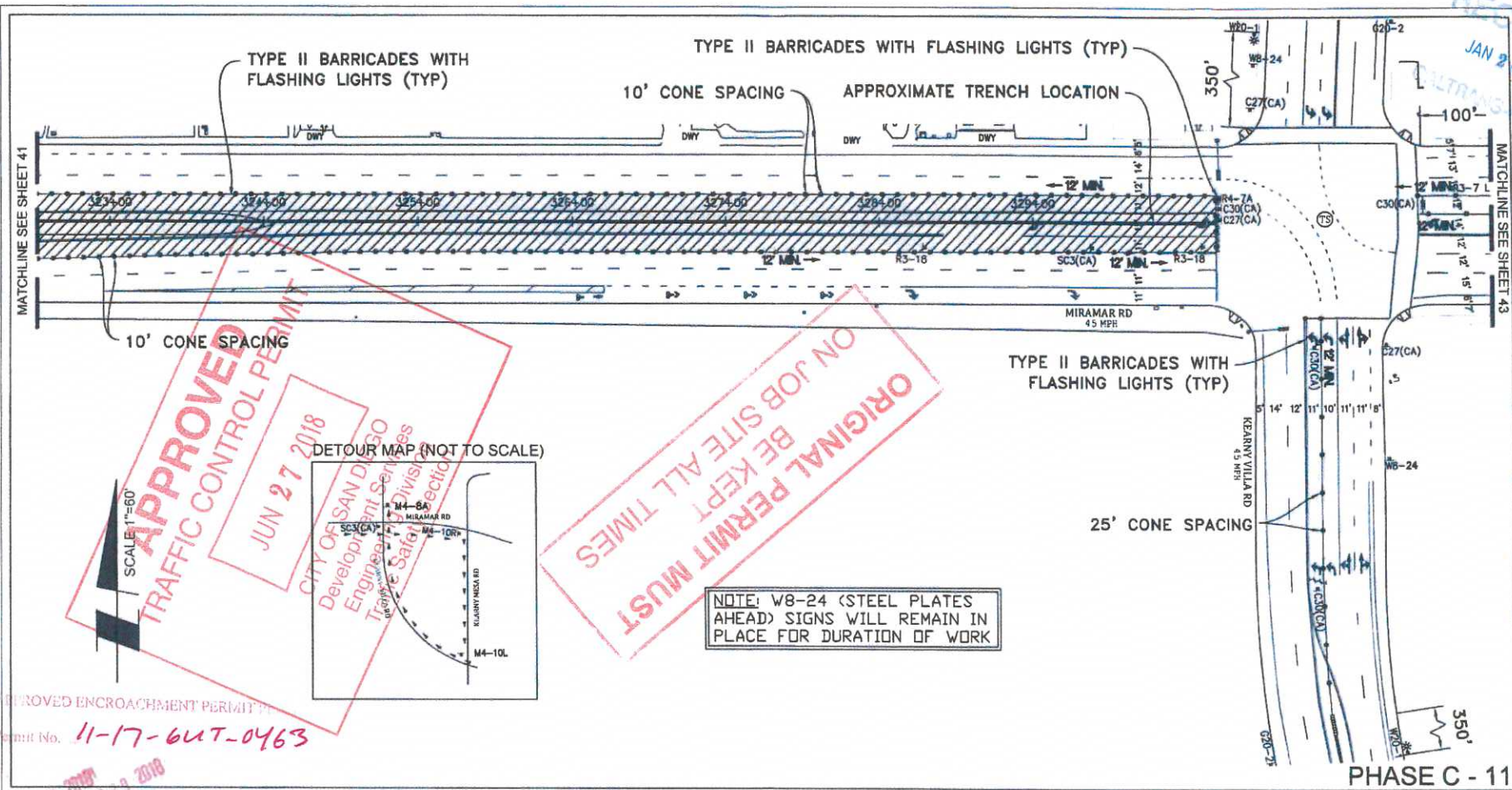
**AIRX** SURVEYING, INC.  
 Gail McMorrin  
 President  
 2934 EAST EL NORTE PARWAY, SUITE C  
 ESCOBARDO, CA 92027  
 PHONE: (760) 480-2947  
 CELL: (760) 419-3738

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858 385 0500 WWW.NV5.COM

AIRX JOB#: X160218  
 THOMAS GRID#: 1209-F6  
 MISC/POTHOLE#: DRAWN FOR: CALTRANS  
 TYPE OF WORK: TRENCHING / CONDUIT



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JAN 24 2018  
CALTRANS



**APPROVED**  
TRAFFIC CONTROL PERMIT  
JUN 27 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**

APPROVED ENCROACHMENT PERMIT  
Permit No. 11-17-6UT-0463

<b>PROJECT NAME:</b> TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground		<b>DATE:</b> 1/22/2018 <b>DESIGNED:</b> Clint Jones <b>CHECKED BY:</b> Mark Webb	
<b>AIRX</b> SURVEYORS, INC. Gail McMorran President 2534 EAST EL NORTE PARKWAY SUITE C ESCOBEDO, CA 92027 PHONE (760) 480-2347 CELL (760) 419-3738	<b>NV5</b> 15002 AVENUE OF SCIENCE, SUITE 200 SAN DIEGO, CA 92128 P. 858 385 0500 WWW.NV5.COM	<b>AIRX JOB#:</b> X160218 <b>MISC/POTHLES#:</b> <b>TYPE OF WORK:</b> TRENCHING / CONDUIT	<b>THOMAS GRID#:</b> 1209-F6 <b>DRAWN FOR:</b> CALTRANS

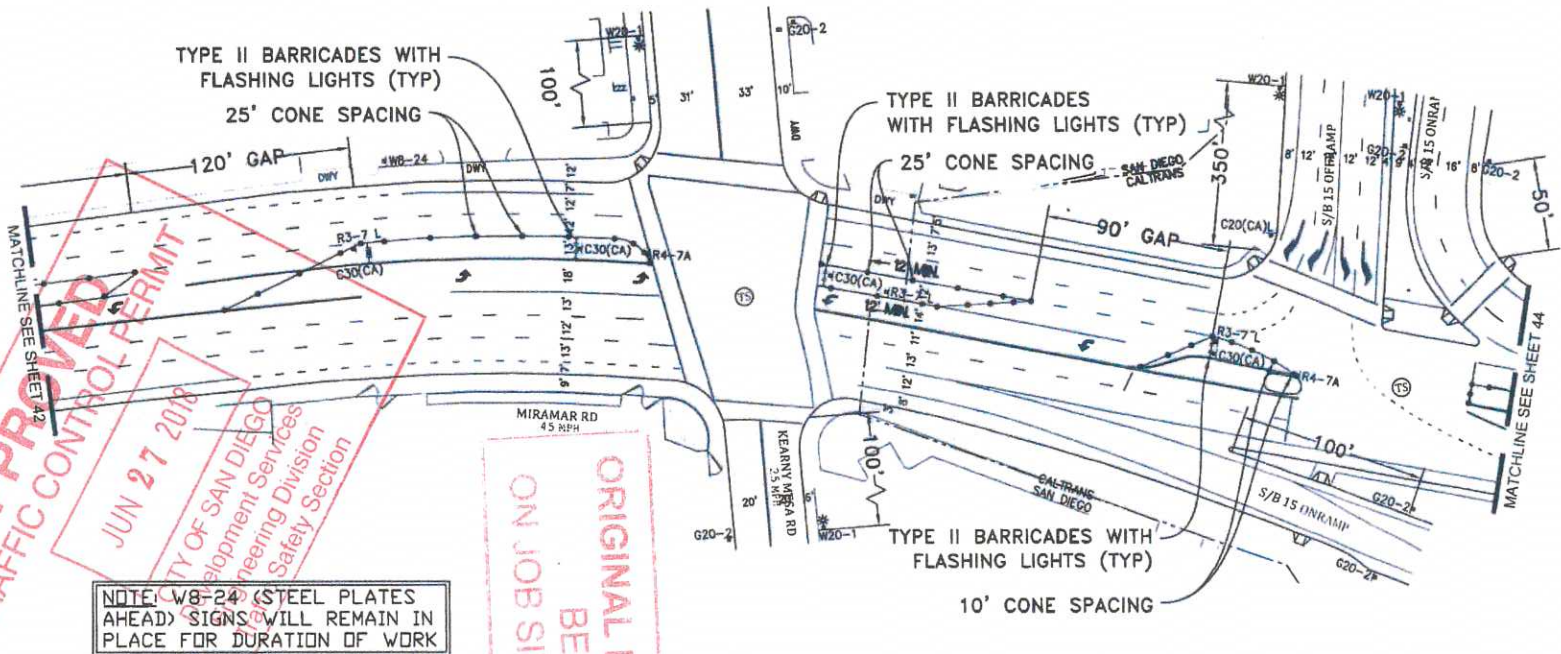


**SHEET 42 OF 48**





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 JAN 24 2018  
 CALTRANS



**APPROVED**  
 TRAFFIC CONTROL PERMIT  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Department of Planning & Engineering Services  
 Engineering Division  
 Safety Section

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE AT ALL TIMES

APPROVED ENCROACHMENT PERMIT  
 11-17-6611-0463  
 Permit No.:

PHASE C - 11

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 1/22/2018  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMorran  
 President  
 7534 EAST 141 NORTH PARKWAY SUITE C  
 ESCROWERS, CA 92027  
 PHONE: (760) 485-2547  
 CELL: (760) 419-3736

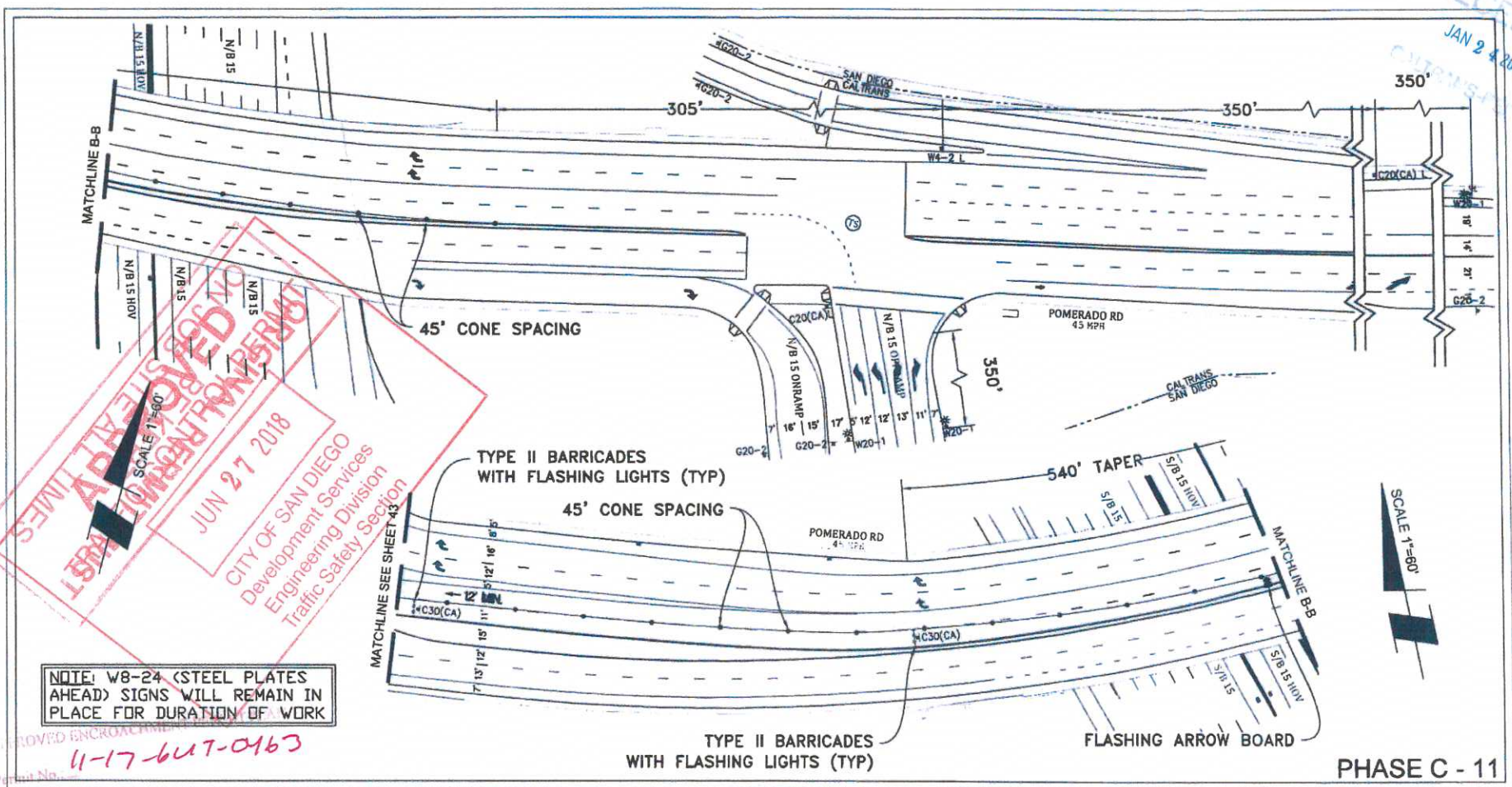
**N/V 5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 THOMAS GRID#: 1209-F6  
 MISC/POTHOLES#: DRAWN FOR: CALTRANS  
 TYPE OF WORK: TRENCHING / CONDUIT

REGISTERED PROFESSIONAL ENGINEER  
 MARK H. WEBB  
 No. 46378  
 CIVIL  
 STATE OF CALIFORNIA

SHEET 43 OF 48

RECEIVED  
JAN 24 2018  
CALTRANS



SITE APPROVED  
 FOR CONSTRUCTION  
 JUN 27 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

11-17-647-0163

PHASE C - 11

<b>PROJECT NAME:</b> TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground		<b>DATE:</b> 1/22/2018 <b>DESIGNED:</b> Clint Jones <b>CHECKED BY:</b> Mark Webb	
 Gail McMorran President 2334 EAST EL NORTE PARKWAY SUITE C ESCOBEDO, CA 92027 PHONE: (760) 693-2347 CELL: (760) 419-3738	 15092 AVENUE OF SCIENCE, SUITE 200 SAN DIEGO, CA 92128 P: 858 385 0500 WWW.NVS.COM	<b>AIRX JOB#:</b> X160218	<b>THOMAS GRID#:</b> 1209-F6
		<b>MISC/POTHOLE#:</b>	<b>DRAWN FOR:</b> CALTRANS
<b>TYPE OF WORK:</b> TRENCHING / CONDUIT			
		<b>SHEET 44 OF 48</b>	