

ENCROACHMENT PERMIT RIDER

TR-0122 (REV. 6/99)

Collected By CN	Permit No. 11-17-6UT-0463 R1
Rider Fee Paid \$ 1,599.00 (CHARGE)	Dist/Co/Rte/PM 11-SD-15/M14.28
Date MAY 1, 2018	Rider Number 11-18-6RW-0211

TO: []
SAN DIEGO GAS & ELECTRIC COMPANY
8335 CENTURY PARK COURT
SAN DIEGO, CA 92123

ATTN: VINH HUYNH
PHONE: (858) 654-1754


], PERMITTEE

In compliance with your request of March 5, 2018 and March 21, 2018, we are hereby amending the above numbered encroachment permit as follows:

Date of completion extended to: **NO CHANGE.**

1. REPLACE TRAFFIC CONTROL PLAN SHEETS 1, 11, 12, AND 15, DATED AS APPROVED JANUARY 29, 2018 OF THE ORIGINAL TRAFFIC CONTROL PLANS WITH THE ATTACHED PLAN SHEETS 1, 11, 12, AND 15 DATED AS RECEIVED MARCH 5, 2018.
2. ADD TRAFFIC CONTROL PLAN SHEETS 49, 50, 51, 52, 53, AND 54 DATED AS RECEIVED APRIL 19, 2018 TO THE ORIGINAL APPROVED TRAFFIC CONTROL PLANS.
3. REPLACE PLAN SHEETS 64859-4 AND 64859-5, DATED AS APPROVED JANUARY 29, 2018 WITH PLAN SHEETS 64859-4 AND 64859-5 DATED AS RECEIVED APRIL 11, 2018.

Except as amended, all other terms and provisions of the original permit shall remain in effect.

CN:cn cc: Permits OPerryman, Reg. Mgr. NMartin, Inspector Permittee	Parent Permit Contractor	APPROVED: Tim Gubbins, Acting District Director
		BY:  Joy J. Lee, District Permit Engineer

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

ATTN: 11-18-GRW-0211
 5/1/2018

SIGN LEGEND

The sign legend contains 45 different signs, each with a label and a code. The signs are arranged in a grid and include:

- 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 (Detour signs)
- R3-1, R3-2, R3-4, R3-18, R3-5L, R3-5R (Right turn signs)
- R3-7 L, R3-7 R (Must turn signs)
- R4-7A (Keep right sign)
- R4-11 (May use full lane sign)
- R49(CA)L, R49(CA)R (No pedestrian crossing signs)
- R9-3 (No pedestrian crossing sign)
- R9-9 (Sidewalk closed sign)
- R9-10, R9-11, R9-11A (Sidewalk closed signs)
- R11-4 (Road closed to thru traffic sign)
- SC3(CA) (Detour sign)
- W1-4L, W1-4R (Warning signs)
- W3-4 (Be prepared to stop sign)
- W4-2L, W4-2R (Warning signs)
- W8-24 (Steel plates ahead sign)
- W8-6 (Truck crossing sign)
- W11-1 (Bicycle crossing sign)
- W16-1P (Share the road sign)
- W20-1 (Road work ahead sign)
- W16-9P (Ahead sign)
- W20-2 (Detour ahead sign)
- W20-4 (One lane road ahead sign)
- W12-1 (Shoulder work sign)
- W21-5 (Shoulder work sign)
- W21-5bL (Shoulder work sign)
- OM-3R, OM-3L, OM-3C (Work zone signs)
- OM4-1 (Work zone sign)
- W1-7 (Work zone sign)
- R6-1 R (One way sign)
- SPCL 1 (Freeway only sign)
- SPCL 2, SPCL 3 (Miramar Freeway Rd signs)
- SC6-4 (Ramp closed sign)
- SPCL-C1 (Construction access only sign)

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 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER		
					TANGENT	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	1200	600	300	200	50	100	25
55	1320	660	330	220	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

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, L = WS²/60
 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).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3% -6% -9%		
		ft	ft	ft
20	115	115	120	125
25	155	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	685
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

* - 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.

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	2540

* - 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.

LEGEND

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

RECEIVED
 MAR 5 2018

CALTRANS-PERMIT

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

UTILITY SURVEYORS, INC.
AIRX
 Gail McMorran
 President
 2534 EAST EL NORTE PARKWAY, SUITE C
 ESCONDIDO, CA 92027
 PHONE: (760) 480-2347
 CELL: (760) 419-3738

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

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

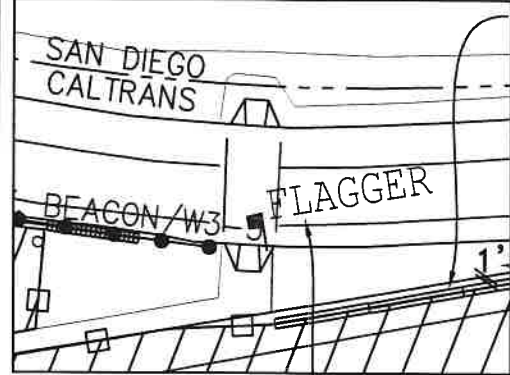
THOMAS GRID#: 1209-F6
 DRAWN FOR: CALTRANS



DATE: 2/22/2018
 DESIGNED: Clint Jones
 CHECKED BY: Mark Webb

SHEET 1 OF 48

RAMP DETAIL: (NOT TO SCALE)



275' LENGTH OF ZONEGUARD WITH YELLOW REFLECTIVE TAGS SPACED AT 25' O.C. FACING ONCOMING TRAFFIC WITH 6' TALL CHAINLINK FENCE WITH GREEN MESH (PINNED)

KEEP ZONEGUARD MINIMUM OF 1' FROM CURB

FLAGGERS AND STEEL PLATES WILL BE USED WHEN WORK ON SIDEWALK IS BEING PERFORMED

FENCE WILL NOT BE PLACED ON SIDEWALK SIDEWALK WILL BE FREE OF DEBRIS AND EQUIPMENT THROUGH WORK AREA

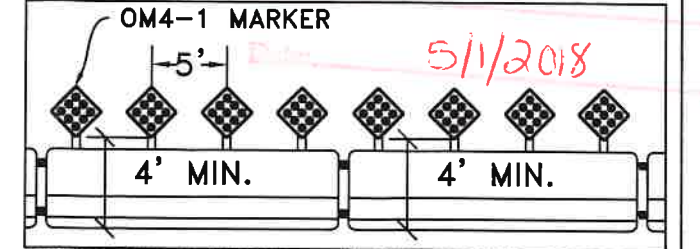
NOTE: ZONEGUARD WILL BE INSTALLED AFTER 10PM AND REMOVED BY 5AM

INSTALL CORRUGATED STEEL PANEL AND GRAVEL PER CALTRANS PLAN T58

6' TALL CHAINLINK FENCE WITH GREEN MESH

330' LENGTH OF KRAIL WITH YELLOW REFLECTIVE TAGS SPACED AT 25' O.C. FACING ONCOMING TRAFFIC WITH 6' TALL CHAINLINK FENCE WITH GREEN MESH (PINNED)

ZONEGUARD INTERSECTION DETAIL: (NOT TO SCALE)



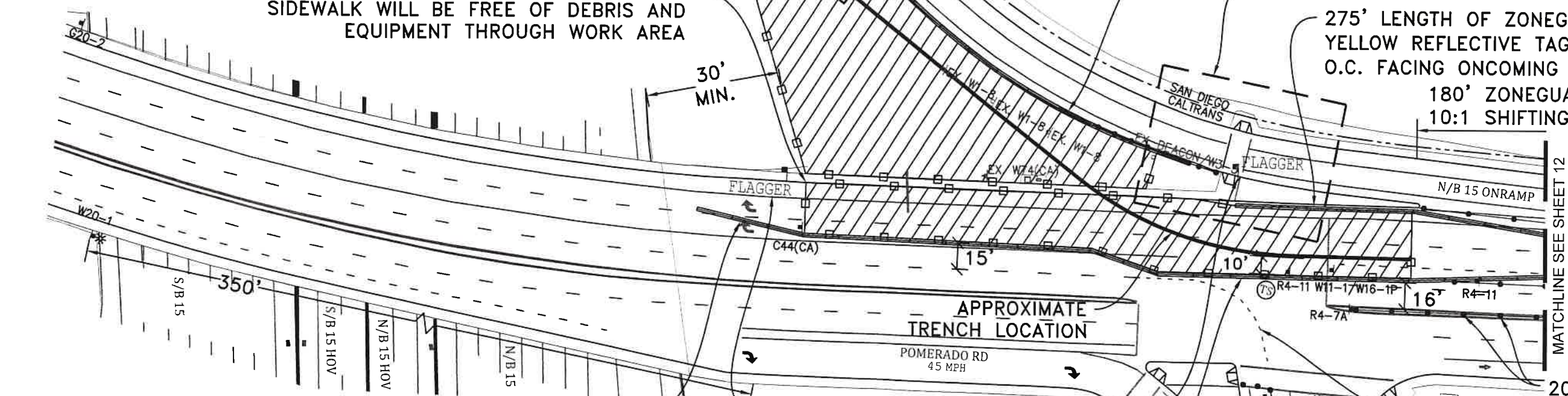
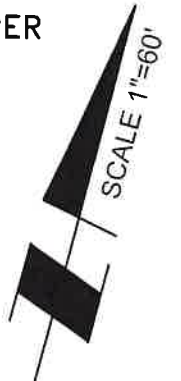
SPACE OM4-1 MARKERS 4' OFF GROUND SPACED AT 5' O.C. FACING ONCOMING TRAFFIC FACING ONCOMING TRAFFIC(TYP) INSIDE INTERSECTION

QUADGUARD II (TL-3) CRASH CUSHION ON PLATES

SEE RAMP DETAIL

275' LENGTH OF ZONEGUARD WITH YELLOW REFLECTIVE TAGS SPACED AT 25' O.C. FACING ONCOMING TRAFFIC (PINNED)

180' ZONEGUARD 10:1 SHIFTING TAPER



560' LENGTH OF ZONEGUARD WITH WHITE REFLECTIVE TAGS SPACED AT 25' O.C. FACING ONCOMING TRAFFIC (PINNED)

FLAGGERS WILL SAFELY GUIDE PEDESTRIANS THROUGH WORK AREA SEE ZONEGUARD INTERSECTION DETAIL

20' CONE SPACING REMOVE EXISTING DETAIL 40 USE TEMPORARY TABS DURING NON-WORKING HOURS

25' CONE SPACING

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

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

NOTE: WHEN KRAIL IS LESS THAN 2' FROM TRENCH PIN KRAIL PER CALTRANS STANDARD PLANS

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

NOTE: ALL TRUCKS WILL USE AMBER LIGHT BEACON WHEN ENTERING / EXITING WORK AREA

PHASE C - 3

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

DATE: 2/22/2018
DESIGNED: Clint Jones
CHECKED BY: Mark Webb

UTILITY SURVEYORS, INC.
AIRX
Gail McMorran
President
2534 EAST EL NORTE PARKWAY, SUITE C
ESCONDIDO, CA 92027
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#:

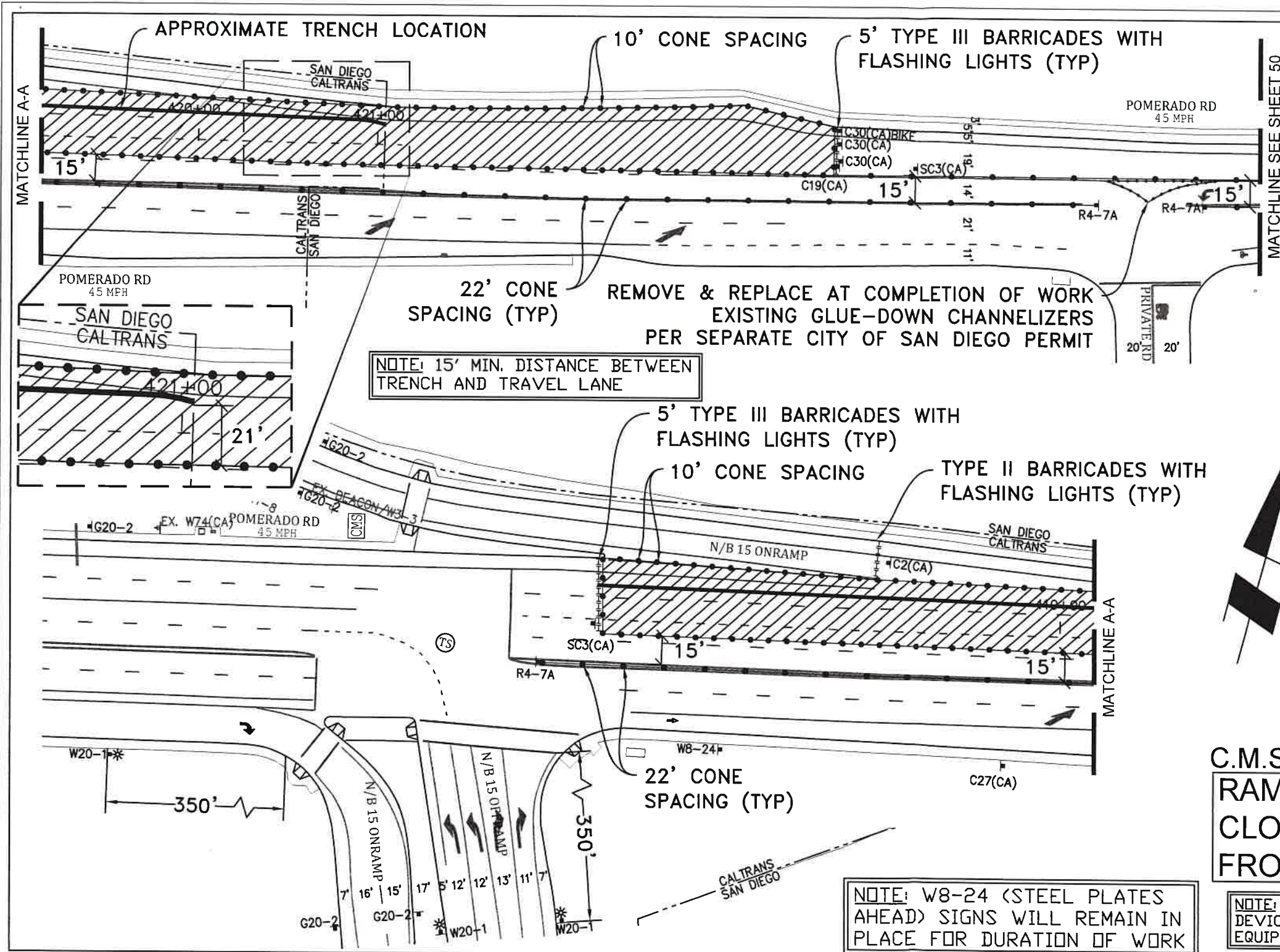
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TYPE OF WORK: TRENCHING / CONDUIT



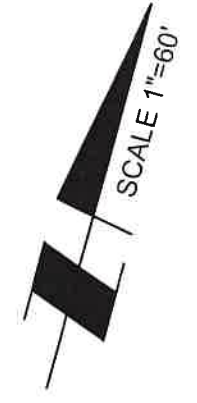
SHEET 11 OF 48

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MAR 5 2018
CALTRANS-PERMIT

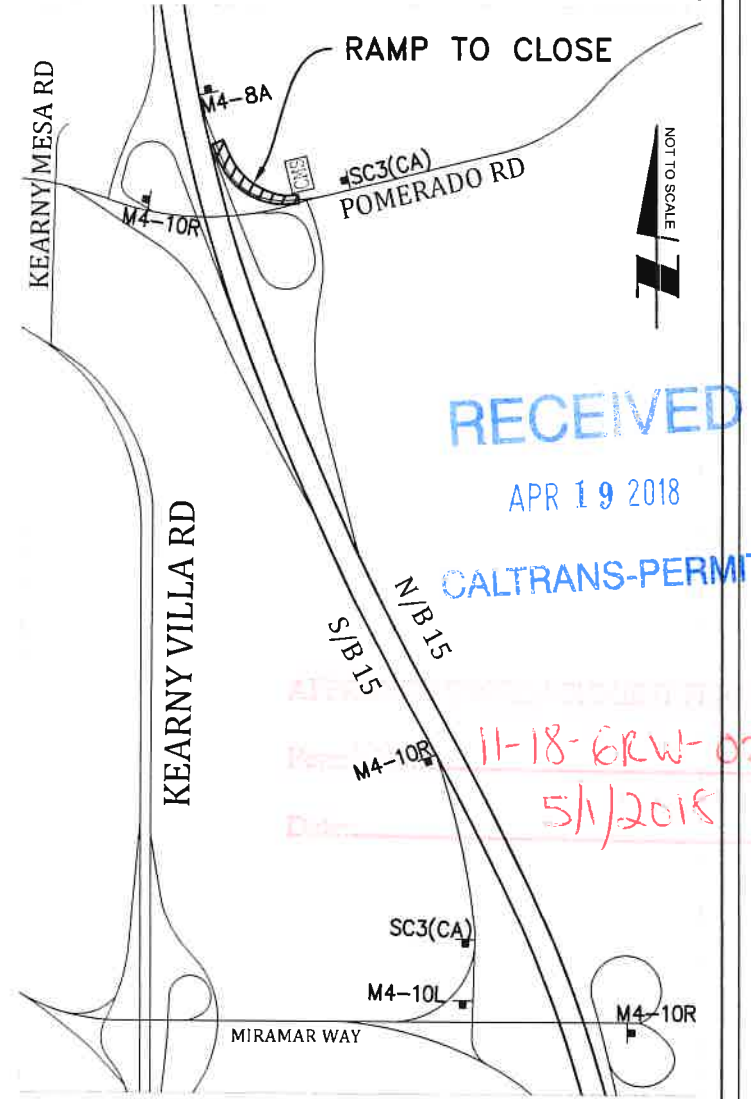


NOTE: 15' MIN. DISTANCE BETWEEN TRENCH AND TRAVEL LANE

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



DETOUR MAP: (NOT TO SCALE)



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APR 19 2018

CALTRANS-PERMIT

11-18-GRW-0211
5/1/2018

C.M.S. MESSAGE

RAMP CLOSED FROM	DATE TO DATE 9PM-5AM	DETOUR MIRAMAR WAY
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NOTE: ALL CONFLICTING MARKERS AND DEVICES WILL BE REMOVED WHEN EQUIPMENT IS NOT IN USE

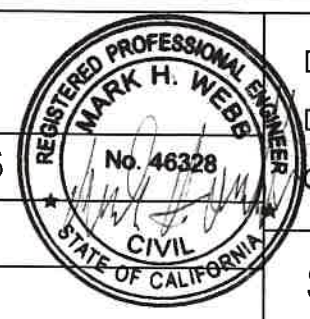
PHASE C - 12

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

UTILITY SURVEYORS, INC.
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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	



DATE: 4/18/2018
DESIGNED: Clint Jones
CHECKED BY: Mark Webb

SHEET 49 OF 54



NOTE: 15' MIN. DISTANCE BETWEEN TRENCH AND TRAVEL LANE

MATCHLINE SEE SHEET 49

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

22' CONE SPACING (TYP)

22' CONE SPACING (TYP)

270' SHIFTING TAPER

180' BIKE SHIFTING TAPER

22' CONE SPACING (TYP)

LEFT TURNS FROM WESTBOUND POMERADO TO MILITARY (PRIVATE RD) ARE NOT RESTRICTED

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

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

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APR 19 2018

CALTRANS-PERMIT

PHASE C - 12 (CONT)

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

UTILITY SURVEYORS, INC.
AIRX
 2534 EAST EL NORTE PARKWAY, SUITE C
 ESCONDIDO, CA 92027
 PHONE: (760) 480-2347
 CELL: (760) 419-3738

Gail McMorran
 President

NV5

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 P: 858 385 0500 WWW.NV5.COM

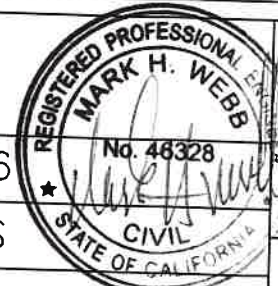
AIRX JOB#: X160218

MISC/POTHOLE#:

TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6

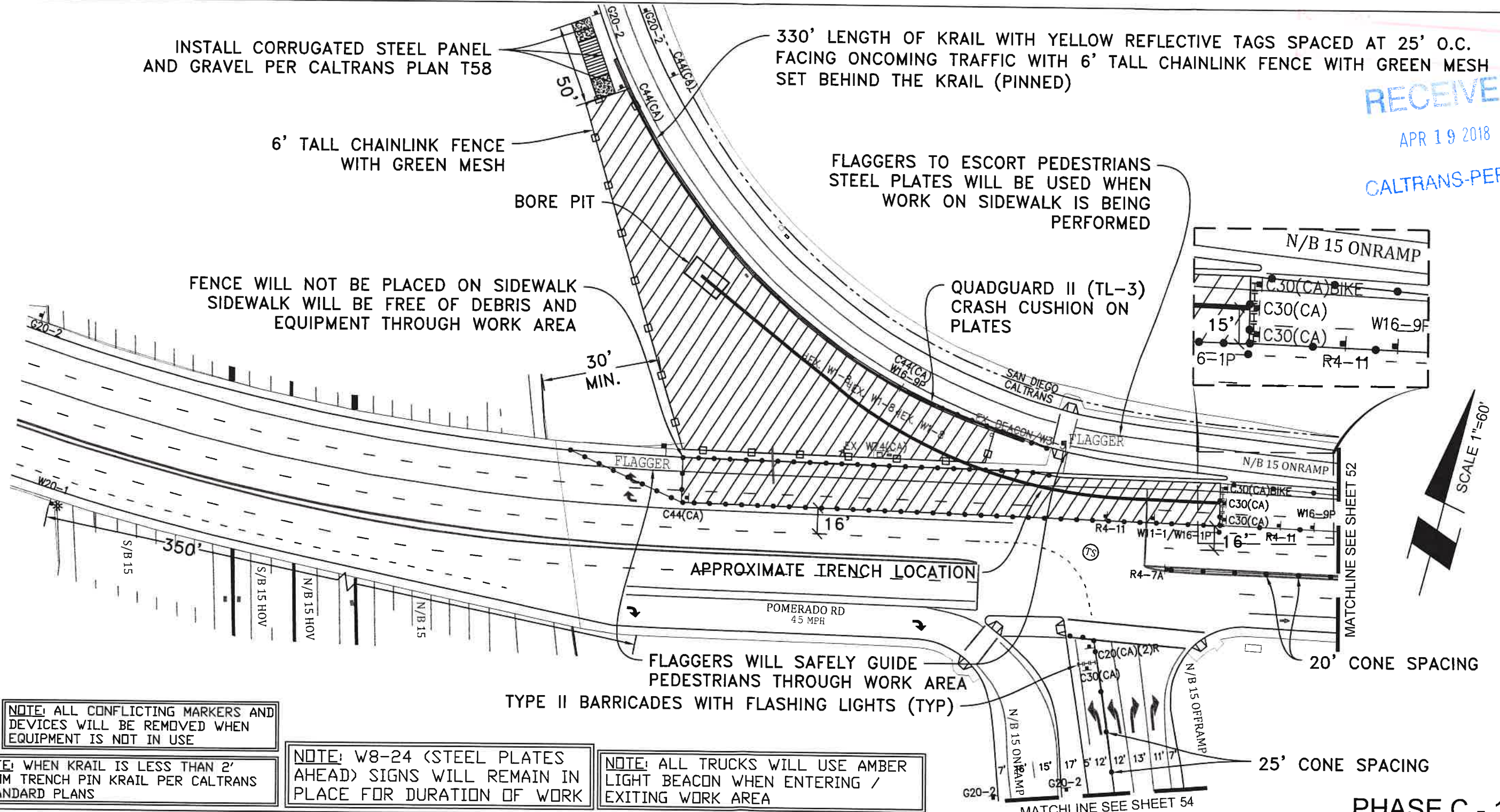
DRAWN FOR: CALTRANS



DATE: 4/18/2018
 DESIGNED: Clint Jones
 CHECKED BY: Mark Webb

SHEET 50 OF 54

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 APR 19 2018
 CALTRANS-PERMIT



INSTALL CORRUGATED STEEL PANEL AND GRAVEL PER CALTRANS PLAN T58

330' LENGTH OF KRAIL WITH YELLOW REFLECTIVE TAGS SPACED AT 25' O.C. FACING ONCOMING TRAFFIC WITH 6' TALL CHAINLINK FENCE WITH GREEN MESH SET BEHIND THE KRAIL (PINNED)

6' TALL CHAINLINK FENCE WITH GREEN MESH

FLAGGERS TO ESCORT PEDESTRIANS STEEL PLATES WILL BE USED WHEN WORK ON SIDEWALK IS BEING PERFORMED

FENCE WILL NOT BE PLACED ON SIDEWALK SIDEWALK WILL BE FREE OF DEBRIS AND EQUIPMENT THROUGH WORK AREA

QUADGUARD II (TL-3) CRASH CUSHION ON PLATES

30' MIN.

APPROXIMATE TRENCH LOCATION

FLAGGERS WILL SAFELY GUIDE PEDESTRIANS THROUGH WORK AREA TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

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

NOTE: WHEN KRAIL IS LESS THAN 2' FROM TRENCH PIN KRAIL PER CALTRANS STANDARD PLANS

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

NOTE: ALL TRUCKS WILL USE AMBER LIGHT BEACON WHEN ENTERING / EXITING WORK AREA

PHASE C - 13

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

UTILITY SURVEYORS, INC.
AIRX
 Gail McMorran
 President
 2534 EAST EL NORTE PARKWAY, SUITE C
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 SAN DIEGO, CA 92128
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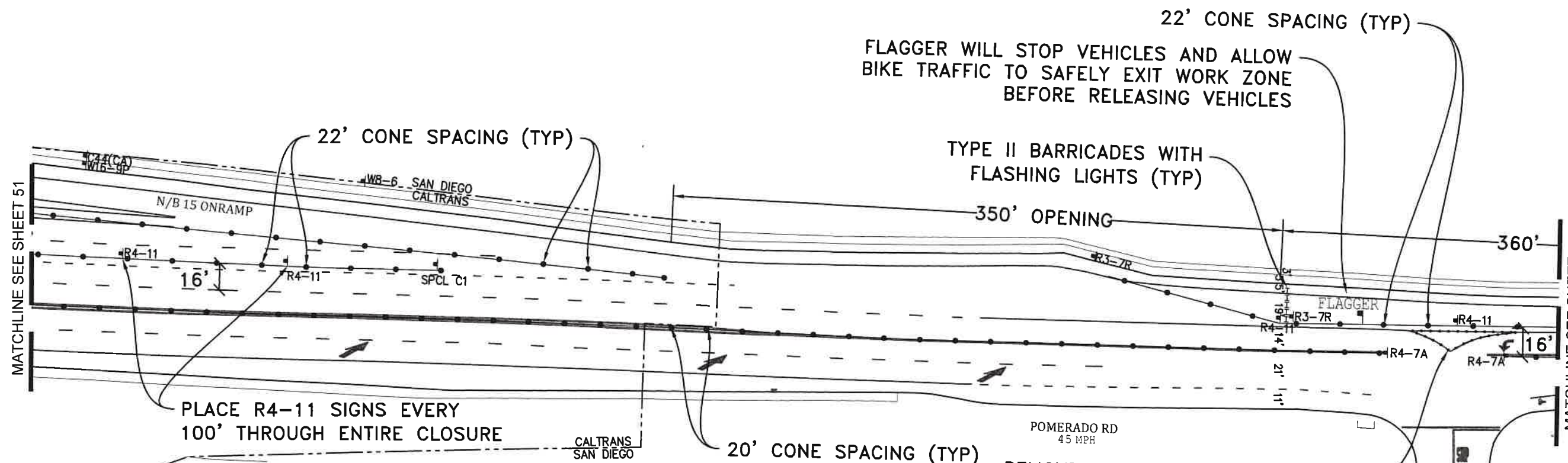
AIRX JOB#: X160218
 MISC/POTHOLE#:
 TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6
 DRAWN FOR: CALTRANS



DATE: 4/18/2018
 DESIGNED: Clint Jones
 CHECKED BY: Mark Webb

SHEET 51 OF 54



PLACE R4-11 SIGNS EVERY 100' THROUGH ENTIRE CLOSURE

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

NOTE: KEEP KRAIL 1' FROM CURB

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

NOTE: KRAIL WILL BE INSTALLED AFTER 10PM AND REMOVED BY 5AM

RECEIVED
APR 19 2018
CALTRANS-PERMIT

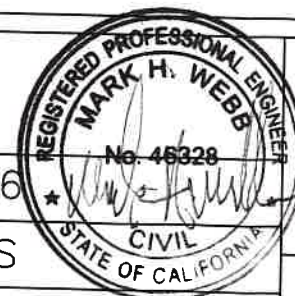
PHASE C - 13 (CONT)

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

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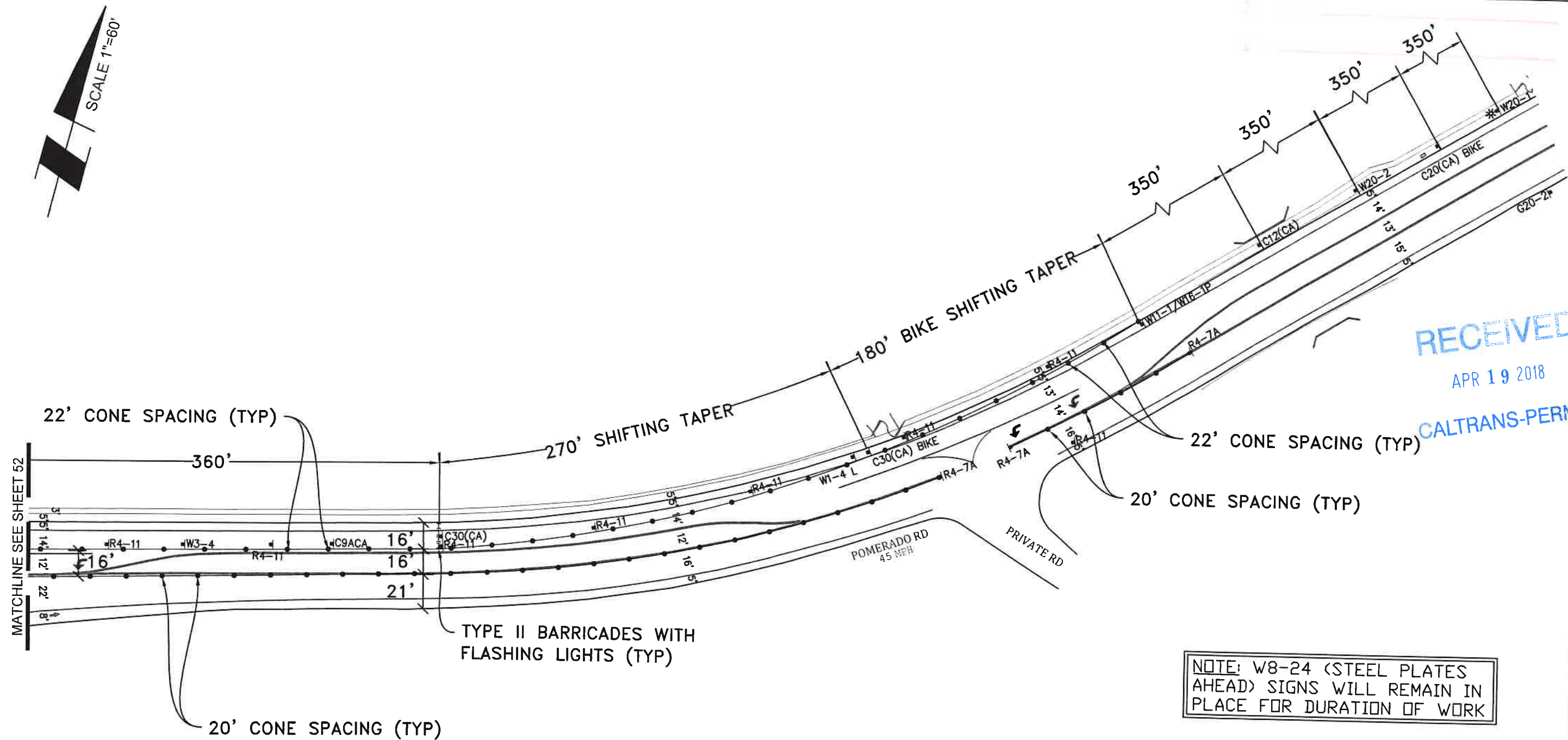
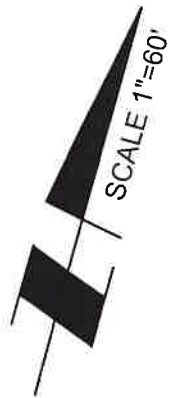
NV5
15092 AVENUE OF SCIENCE, SUITE 200
SAN DIEGO, CA 92128
P: 858.385.0500 WWW.NV5.COM

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



DATE: 4/18/2018
DESIGNED: Clint Jones
CHECKED BY: Mark Webb

SHEET 52 OF 54



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

PHASE C - 13 (CONT)

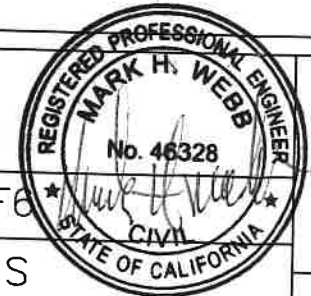
PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

UTILITY SURVEYORS, INC.
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 Gail McMorran
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 2534 EAST EL NORTE PARKWAY, SUITE C
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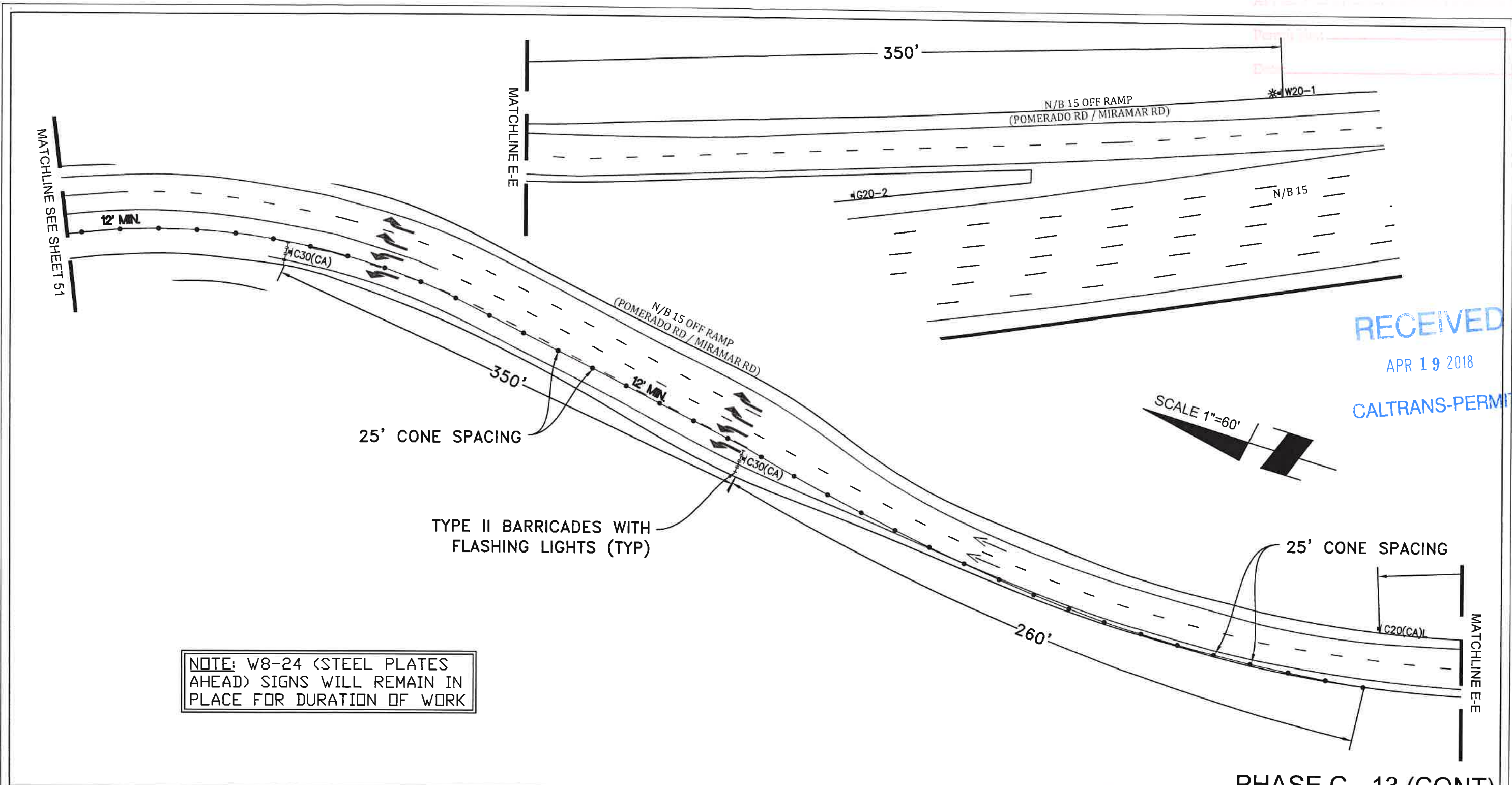
AIRX JOB#: X160218
 MISC/POTHOLE#:
 TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6
 DRAWN FOR: CALTRANS



DATE: 4/18/2018
 DESIGNED: Clint Jones
 CHECKED BY: Mark Webb

SHEET 53 OF 54



RECEIVED
 APR 19 2018
 CALTRANS-PERMIT

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

PHASE C - 13 (CONT)

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

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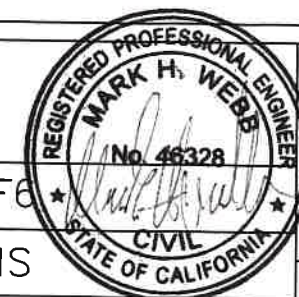
AIRX JOB#: X160218

MISC/POTHOLE#:

TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1209-F6

DRAWN FOR: CALTRANS



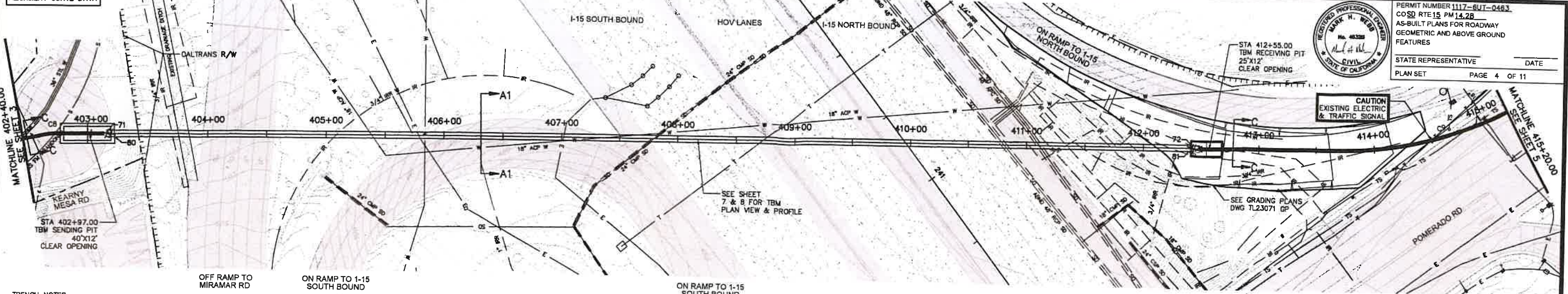
DATE: 4/18/2018

DESIGNED: Clint Jones

CHECKED BY: Mark Webb

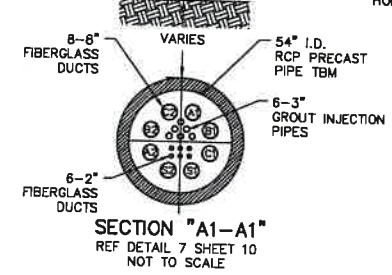
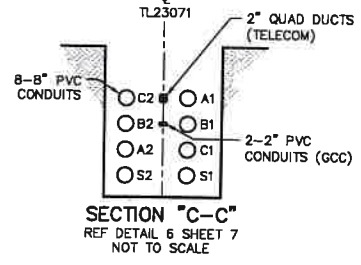
SHEET 54 OF 54

SEE SHEET 8 FOR ALIGNMENT CURVE DATA



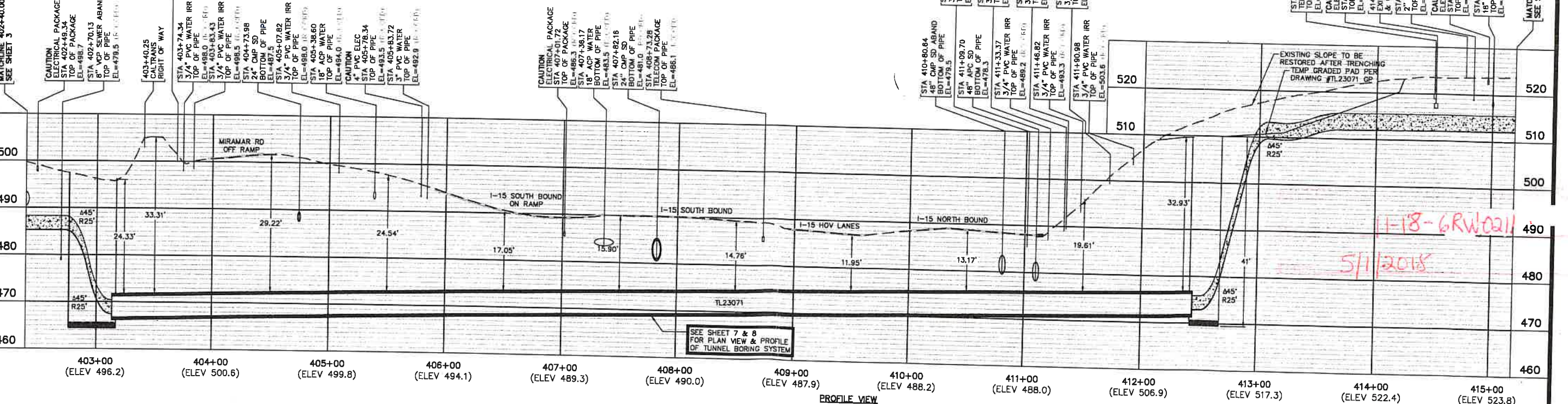
PERMIT NUMBER 1117-SUT-0483
 CO SD RTE 15 PM 14.28
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND
 FEATURES
 STATE REPRESENTATIVE _____ DATE _____
 PLAN SET PAGE 4 OF 11

TRENCH NOTES
 STA 402+40 TO STA 402+44, SECTION A-A
 STA 402+44 TO STA 402+77, SECTION C-C
 STA 402+77 TO STA 403+17, TBM SENDING PIT
 STA 403+17 TO STA 412+48, SECTION A1-A1
 STA 412+41.50 TO STA 412+66.50, TBM RECEIVING PIT
 STA 412+66.50 TO STA 415+20, SECTION C-C



PLAN VIEW
 HORIZONTAL SCALE: 1" = 40'

SCALE IS ACCURATE FOR 24"x36" SHEET
 PLOT. REPRODUCTIONS ON ANY OTHER SIZE
 SHEET DOES NOT REPRESENT TRUE SCALE.
 GRAPHIC SCALE
 0' 20' 40' 80'
 SCALE 1" = 40'



PROFILE VIEW
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 10'

11-18-GRW0211
 5/1/2018

NV15



DRAWN BY:	NVS
DATE:	3/19/2018
THO. BROS.:	1209, FB
PROJ. NO.:	
CONST. NO.:	2850975

PLAN & PROFILE
 HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 10'

REV	BUDGET	CONST	DATE	CHANGE	DWN	CHKD	APPY	DATE
A								
	13.28	2660976		TRENCH, BORING & SUBSTRUCTURES	NVS			

SDGE SAN DIEGO GAS & ELECTRIC
 TRANSMISSION ENGINEERING
 PLAN & PROFILE
 TUNNEL BORING MACHINE
 TL23071

TL23071
 SYCAMORE CANYON SUBSTATION
 TO PENASQUITOS SUBSTATION
 230KV TBM SEGMENT

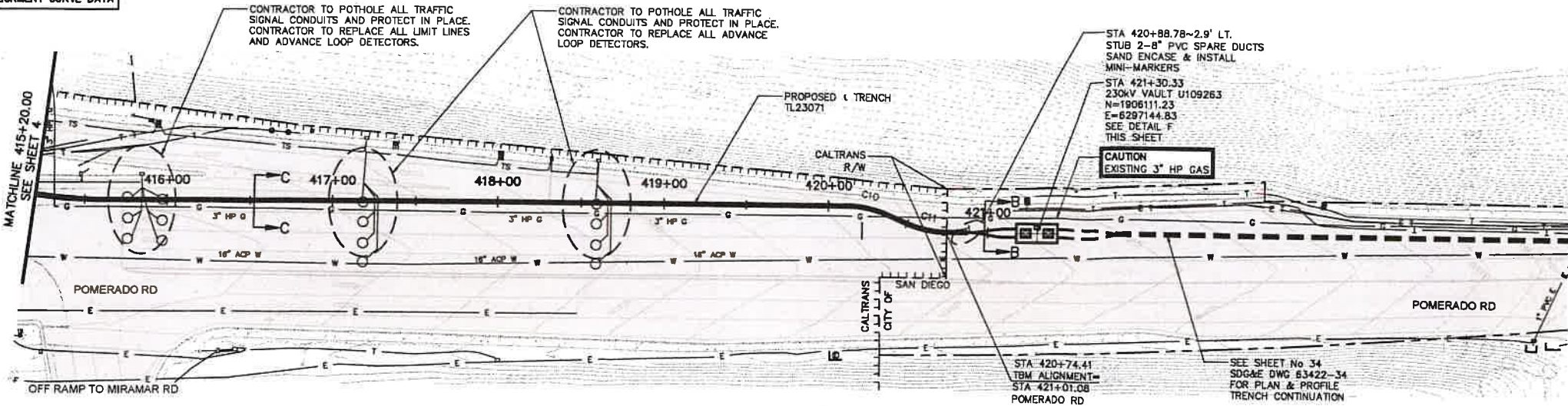
DRAWING NUMBER
 64859-4

SCALE: H:1"=40' V:1"=10' SHEET 4 OF 11

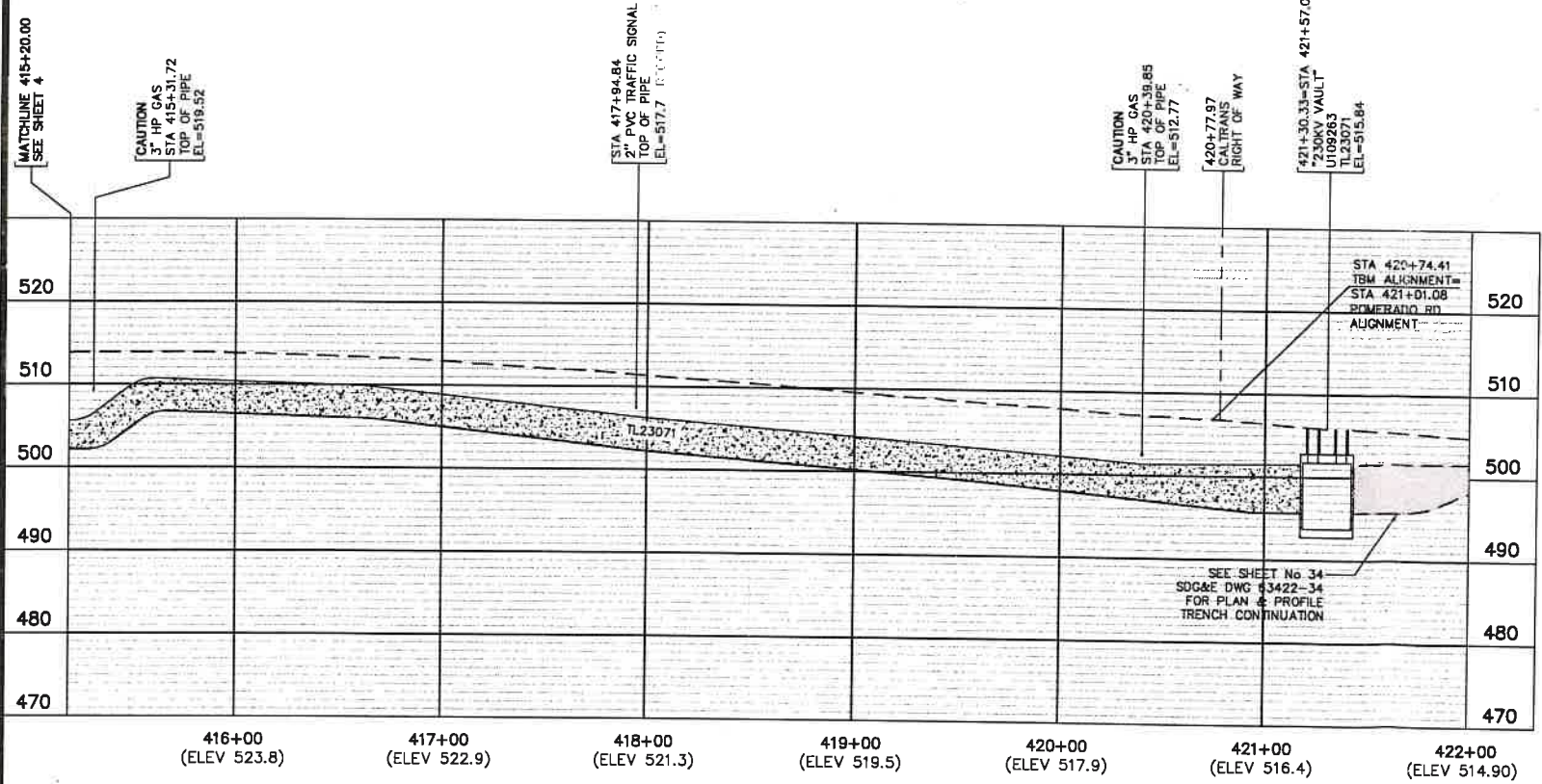
SEE SHEET 6 FOR ALIGNMENT CURVE DATA



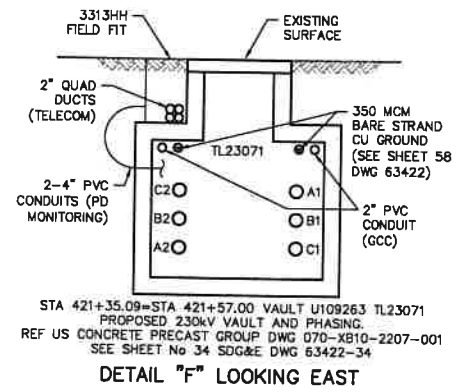
PERMIT NUMBER 1117-SUT-0463
 COSD RTE15 PM14.2B
 AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES
 STATE REPRESENTATIVE _____ DATE _____
 PLAN SET PAGE 5 OF 11



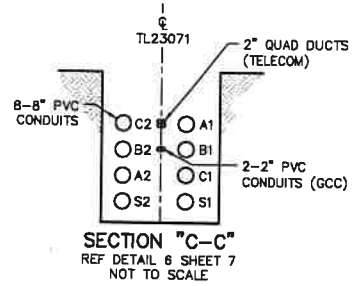
PLAN VIEW
 HORIZONTAL SCALE: 1" = 40'



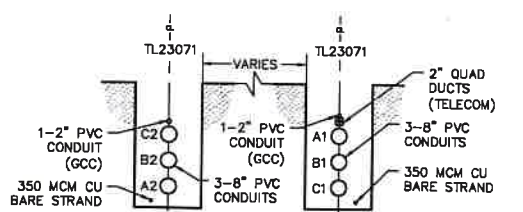
PROFILE VIEW
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 10'



STA 421+35.09=STA 421+57.00 VAULT U109263 TL23071
 PROPOSED 230KV VAULT AND PHASING.
 REF US CONCRETE PRECAST GROUP DWG 070-XB10-2207-001
 SEE SHEET No 34 SDG&E DWG 63422-34
 DETAIL "F" LOOKING EAST

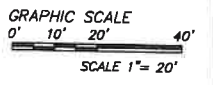


SECTION "C-C"
 REF DETAIL 6 SHEET 7
 NOT TO SCALE



SECTION "B-B"
 REF DETAIL 2 & 3 SHEET 6
 NOT TO SCALE

SCALE IS ACCURATE FOR 24"x36" SHEET PLOT. REPRODUCTIONS ON ANY OTHER SIZE SHEET DOES NOT REPRESENT TRUE SCALE.



11-18-GRW-0211
 5/1/2018

TRENCH NOTES
 STA 415+20 TO STA 421+21, SECTION C-C
 STA 421+21 TO STA 421+35, DETAIL F

NIV15



DRAWN BY:	NVS				
DATE:	3/19/2018				
THD. BROS.	1209, FS				
PROJ. NO.					
CONST. NO.	2650975				
PLAN & PROFILE	A				
HORIZONTAL: 1"=40'		13128	2650975	TRENCH, BORING & SUBSTRUCTURES	NVS
VERTICAL: 1"=10'		REV	BUDGET	CRANCH	DWN
					CHEK
					APPY
					DATE

SDGE SAN DIEGO GAS & ELECTRIC
 TRANSMISSION ENGINEERING
 PLAN & PROFILE
 TUNNEL BORING MACHINE
 TL23071

TL23071
 SYCAMORE CANYON SUBSTATION
 TO PENASQUITOS SUBSTATION
 230KV TBM SEGMENT
 DRAWING NUMBER
 64859-5

SCALE: H:1"=40' V:1"=10' SHEET 5 OF 11