

COUNTY OF SAN MATEO CALIFORNIA

RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION SAN CARLOS AIRPORT

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED MAY 2018 AND ADOPTED BY SAN MATEO COUNTY, FEBRUARY 11, 2020, BY RESOLUTION NO. 077277

COUNTY PROJECT NO. ASL03

ABBREVIATIONS:

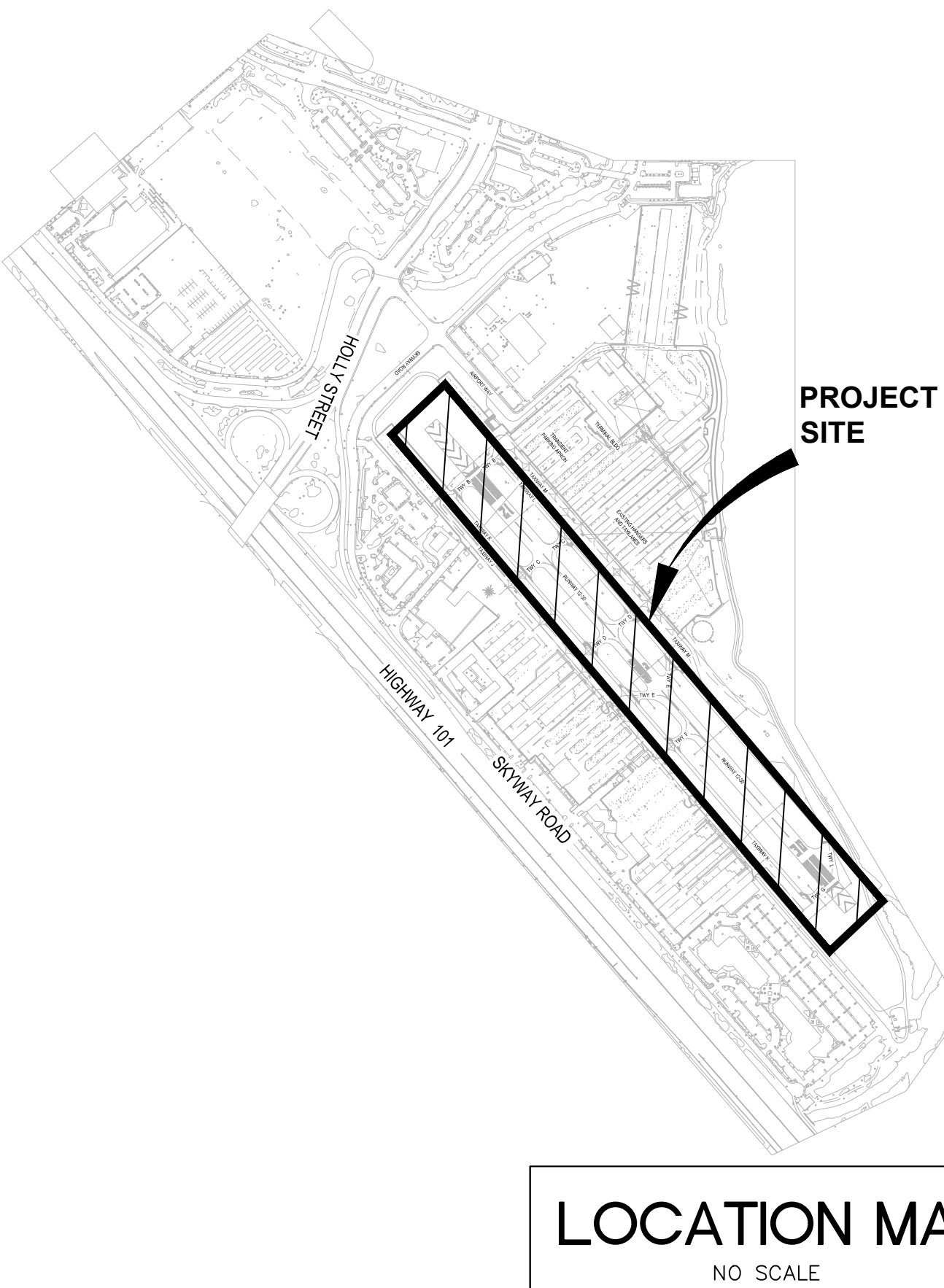
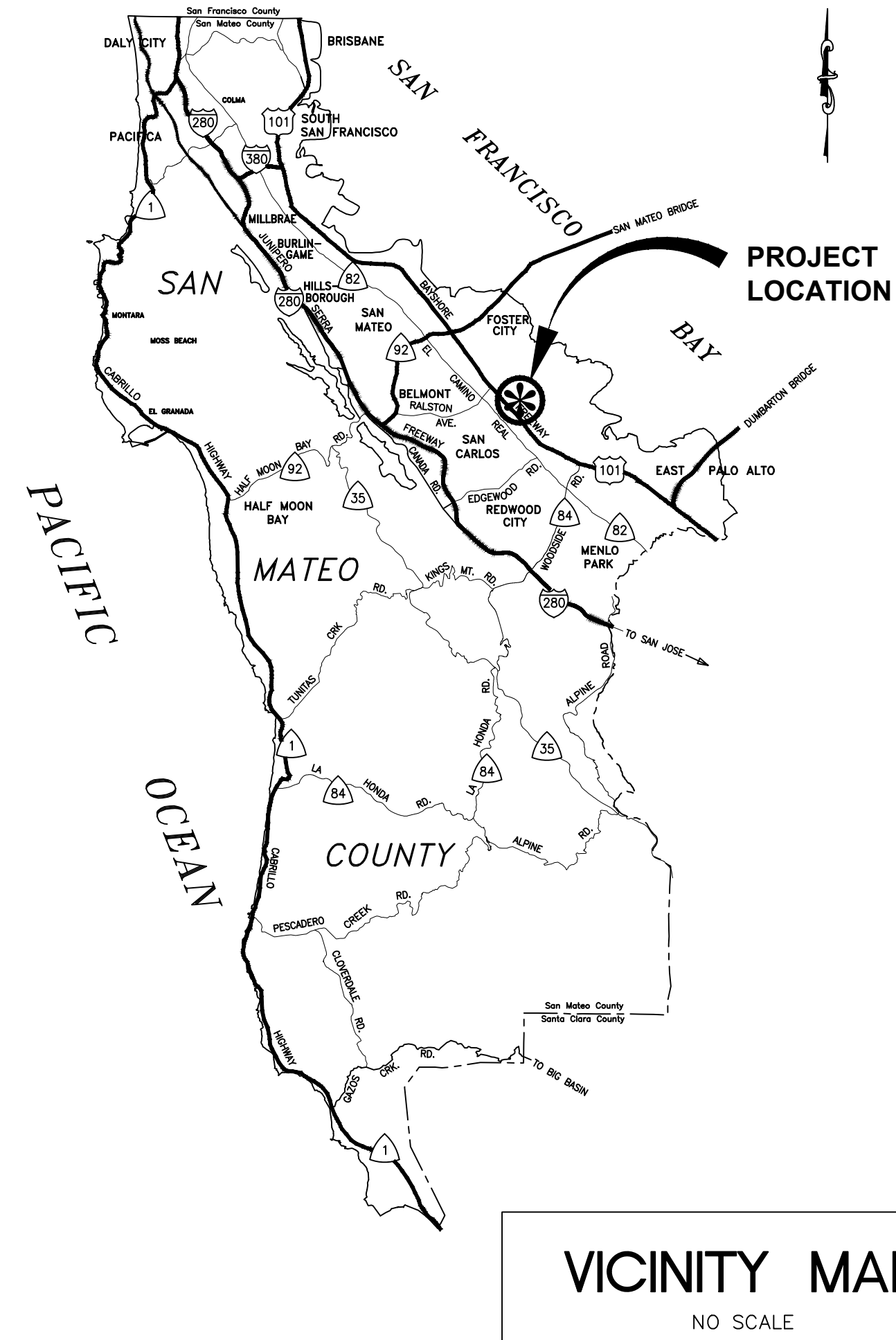
ABAN - ABANDONED
A.C. - ASPHALT CONCRETE
APPROX. - APPROXIMATE
ASPH. - ASPHALT
AWOS - AUTOMATED WEATHER OBSERVING SYSTEM
BC - BEGIN CURVE
BLDG. - BUILDING
BM - BENCH MARK
CBR - CALIFORNIA BEARING RATIO
CIP - CAST IRON PIPE
CO - CLEANOUT
CONC. - CONCRETE
CMP - CORRUGATED METAL PIPE
CMPA - CORRUGATED ARCHED METAL PIPE
CP - CASING POINT
CMU - CONCRETE MASONRY UNIT
CSP - CORRUGATED STEEL PIPE
DIA. - DIAMETER
EAPL - EXISTING AIRPORT PROPERTY LINE
EC - END OF CURVE
ELEV. - ELEVATION
EOP - EDGE OF PAVEMENT
EX - EXISTING
FAA - FEDERAL AVIATION ADMINISTRATION
FL - FLOW LINE
FG - FINISH GRADE
FND - FOUNDATION
FOD - FOREIGN OBJECT DEBRIS
FS - FINISH SURFACE
GA - GENERAL AVIATION
GB - GRADE BREAK
HP - HIGH POINT
IE - INVERT ELEVATION
INT - INTERSECTION
ILS - INSTRUMENT LANDING SYSTEM
LT - LEFT
LP - LOW POINT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS
MUTCD - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
NA - NOT APPLICABLE
OFA - OBJECT FREE AREA
O.C. - ON CENTER
PAVT. - PAVEMENT
PC - POINT OF CURVATURE
PCC - PORTLAND CEMENT CONCRETE
PI - POINT OF INTERSECTION
PROP. - PROPOSED
PT - POINT OF TANGENCY
PVI - POINT OF VERTICAL INTERSECTION
PVC - POINT OF CURVATURE (VERTICAL CURVE)
PVC - POLYVINYL CHLORIDE PIPE
PVT - POINT OF TANGENCY (VERTICAL CURVE)
R - RADIUS
RCP - REINFORCED CONCRETE PIPE
REIL - RUNWAY END IDENTIFIER LIGHTS
ROFA - RUNWAY OBJECT FREE AREA
RSA - RUNWAY SAFETY AREA
ROW - RIGHT OF WAY
RPZ - RUNWAY PROTECTION ZONE
RT - RIGHT
RW - RUNWAY
SHDR. - SHOULDER
SICPP - SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
STA. - STATION
ST - STORM DRAINAGE
TBR - TO BE REMOVED
TC - TOP OF CURB
TD - TOP OF DIKE
TF - TOP OF FOOTING
TOFA - TAXIWAY OBJECT FREE AREA
TSA - TAXIWAY SAFETY AREA
TW - TAXIWAY
TYP. - TYPICAL
UD - UNDERDRAIN
VASI - VISUAL APPROACH SLOPE INDICATOR

LEGEND:

KEYED NOTE REFERENCE
EXISTING AIRPORT PROPERTY LINE
EXISTING AVIATION EASEMENT BOUNDARY
ROW
EXISTING ROADWAY BOUNDARY
ROFA
RSA
TOFA
TSA
EXISTING EDGE OF WATER
WORK AREA HAUL ROUTE
WORK AREA LIMIT
LOW PROFILE BARRICADES
CONTRACTOR STAGING AREA
EXISTING CONTOUR LINE
EXISTING SWALE CENTERLINE
EXISTING TOP/BOTTOM OF DITCH
EXISTING FENCE LINE
EXISTING SINGLE SWING GATE
EXISTING DOUBLE SWING GATE
EXISTING CANTILEVER GATE
EXISTING GUIDE RAIL
EXISTING DRAINAGE LINE
EXISTING UNDERDRAIN
EXISTING UNDERDRAIN CLEANOUT
EXISTING CATCH BASIN
EXISTING DRAINAGE MANHOLE
EXISTING HEADWALL
EXISTING PIPE END SECTION
EXISTING WATER LINE
EXISTING HYDRANT
EXISTING WATER VALVE
EXISTING WATER MANHOLE
EXISTING SANITARY LINE
EXISTING SANITARY FORCE MAIN
EXISTING SANITARY MANHOLE
EXISTING GAS LINE
EXISTING GAS VALVE
EXISTING GAS LINE MARKER
PROPOSED INLET PROTECTION
PROPOSED FIBER ROLL
OBLITERATE EXISTING PAVEMENT MARKINGS
REMOVE EXISTING RUBBER
PREPARE PAVEMENT SURFACE FOR SEAL COAT
MIL EXISTING PAVEMENT TO REMOVE SURFACE BUMP
CONTRACTOR'S ACCESS ROUTE
EXISTING UNDERGROUND TELEPHONE LINE
EXISTING FIBER OPTIC LINE
EXISTING OVERHEAD TELEPHONE LINE
EXISTING TELEPHONE JUNCTION BOX
EXISTING TELEPHONE MANHOLE
EXISTING UNDERGROUND ELECTRIC LINE
EXISTING OVERHEAD ELECTRIC LINE
EXISTING LIGHT POLE
EXISTING UTILITY POLE
EXISTING GUY WIRE AND ANCHOR
EXISTING POLE SUPPORT
EXISTING CONCRETE MARKER
EXISTING CONCRETE DUCT MARKER
EXISTING CONCRETE CABLE MARKER
EXISTING CONCRETE SPLICE MARKER
EXISTING BOLLARD OR POST
EXISTING TIE-DOWN
EXISTING SINGLE POST TRAFFIC SIGN
EXISTING DOUBLE POST TRAFFIC SIGN
EXISTING MONITORING WELL
EXISTING OBSERVATION WELL
EXISTING HOLDING POSITION LIGHT
EXISTING SURFACE SENSOR
EXISTING RETROREFLECTIVE MARKER
EXISTING RUNWAY OR TAXIWAY EDGE LIGHT
EXISTING IN-PAVEMENT EDGE LIGHT
EXISTING AIRFIELD GUIDANCE SIGN
EXISTING REIL UNIT
EXISTING ELECTRICAL DISCONNECT
EXISTING TRANSFORMER
EXISTING WIND CONE
EXISTING LIGHTED WIND CONE
PROPOSED PAVEMENT SECTION
PROPOSED RSA SOIL STABILIZATION
PROPOSED PAVEMENT SURFACE SEAL COAT

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DATE: 1/27/2023

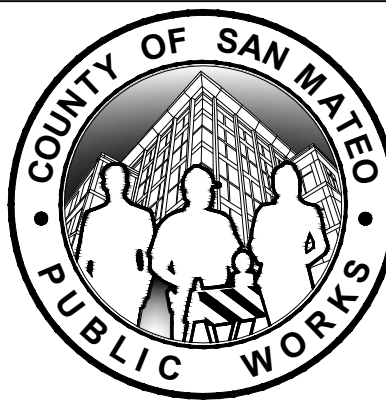
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APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C 063590 EXPIRES 09-30-2024



DESIGNED BY: E.A. (C&S)		TITLE SHEET		SCALE: NOT TO SCALE
CHECKED BY: D.M. (C&S)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (C&S)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION		DATE		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4		G1001 SHEET 1 OF 53

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 70-08, ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS.
2. THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON RECORD DRAWINGS AND/OR CAD FILES FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THOSE UTILIZING THE INFORMATION ON THESE DRAWINGS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.
3. EXISTING UTILITIES WERE TAKEN FROM PLANS OF RECORD. THEY HAVE BEEN SHOWN TO THE EXTENT KNOWN AND ARE OFFERED IN GOOD FAITH SOLELY FOR INFORMATIONAL PURPOSES. THEY MAY NOT REFLECT ACTUAL LOCATIONS AND MAY NOT BE INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
4. THE ACTUAL LOCATION AND ELEVATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
5. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES OR CABLES, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
6. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO UTILITIES OR CABLES, AS DIRECTED BY THE ENGINEER, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
7. ALL AREAS DISTURBED AS A RESULT OF THE CONTRACTOR'S STAGING AND CONSTRUCTION OPERATIONS SHALL BE RESTORED EQUAL TO OR BETTER THAN ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
8. DURING THE WORK OF THIS CONTRACT, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN WHATEVER TEMPORARY LIGHTING MAY BE NECESSARY TO KEEP THE TAXIWAY IN OPERATING CONDITION WHEN OPEN FOR AIRCRAFT.
9. ALL DIRT, DUST, STONES AND LOOSE DEBRIS SHALL BE CONTINUOUSLY REMOVED FROM ALL PAVED SURFACES DURING THIS CONTRACT.
10. THE CONTRACTOR SHALL RECONSTRUCT AND MAINTAIN EXISTING ACCESS ROADS AS REQUIRED FOR ACCESS TO THE WORK AREAS.
11. PROPOSED ACCESS ROADS SHALL BE REMOVED UPON COMPLETION OF WORK AND THE AREA RESTORED TO ORIGINAL CONDITION.
12. ALL OF THE CONTRACTOR'S OPERATIONS SHALL REMAIN ON AIRPORT PROPERTY AT ALL TIMES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED ON ADJACENT PROPERTY.
13. THIS CONTRACT DOES NOT ALLOW FOR PRICE INCREASES DUE TO ESCALATION IN COST OF UNIT BID ITEMS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING UNIT PRICES FOR BID.
14. THE COST OF ALL FAILING TESTS PERFORMED BY THE OWNER OR ON THE OWNER'S BEHALF SHALL BE BORNE BY THE CONTRACTOR.

GRADING AND EXCAVATION NOTES

15. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL STRIP AND STOCKPILE ALL MATERIAL SUITABLE FOR TOPSOILING.
16. SELECTIVE GRADING SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
17. QUALITY ASSURANCE TESTS WILL BE MADE BY AND AT THE EXPENSE OF THE OWNER, UNLESS OTHERWISE NOTED. THE COST OF ALL FAILING TESTS SHALL BE BORNE BY THE CONTRACTOR.
18. THE QUANTITY OF UNCLASSIFIED EXCAVATION, ITEM P-152, INCLUDES 21,580 CY OF UNDERCUT EXCAVATION WHICH WILL BE USED ONLY WHEN DIRECTED BY THE ENGINEER.
19. THE QUANTITY OF CRUSHED STONE BASE COURSE, ITEM P-209, INCLUDES 36,930 SY FOR REPLACEMENT OF UNDERCUT EXCAVATION WHICH WILL BE USED ONLY WHEN DIRECTED BY THE ENGINEER.
20. THE QUANTITY OF SEPARATION FABRIC, ITEM P-154/P-208/P-209, INCLUDES 13,870 (8" THICK) SY AND 23,060 (11" THICK) SY FOR PLACEMENT IN UNDERCUT AREAS WHICH WILL BE USED ONLY WHEN DIRECTED BY THE ENGINEER.
21. THE EXACT LOCATIONS AND DIMENSIONS OF PAVEMENT TO BE RECONSTRUCTED SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
22. ALL SPOIL SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTORS EXPENSE.
23. THE LIMIT FOR TOPSOILING, SEEDING, AND MULCHING ARE THE LIMITS OF GRADING SHOWN ON THE GRADING PLANS. ALL AREAS OUTSIDE OF THE GRADING LIMITS WHICH ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE.
24. THE COMBINATION OF SILT/CLAY SOILS AND HIGH NATURAL MOISTURE CONTENTS CREATE THE POTENTIAL FOR LOSS OF STRENGTH UNDER REPETITIVE LOADINGS OR VIBRATION. THE CONTRACTOR SHOULD TAKE THESE FACTORS INTO CONSIDERATION WHEN SELECTING EQUIPMENT, METHODS AND MEANS FOR CONSTRUCTION OF THIS PROJECT, AS WELL AS HAULING EQUIPMENT THAT WILL OPERATE IN THE AREA THROUGHOUT CONSTRUCTION. ANY DAMAGE TO THE SUBGRADE CONDITION AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION, AS DIRECTED BY THE ENGINEER AND ALL AT THE CONTRACTOR'S EXPENSE.
25. TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL WORK PERFORMED FOR PROTECTION OF CONSTRUCTION AREAS OUTSIDE THE

CONSTRUCTION LIMITS, SUCH AS BORROW AREAS AND WASTE AREAS, HAUL ROADS, EQUIPMENT AND MATERIAL STORAGE SITES, AND TEMPORARY PLANT SITES, WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT SHALL BE CONSIDERED AS A SUBSIDIARY OBLIGATION OF THE CONTRACTOR.

26. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.

SURVEY NOTES

27. FOR TYPICAL SECTIONS, THE CONTOUR INTERVAL EQUALS 1 FOOT. FOR TRANSITIONAL AREAS TO KEYWAYS, THE CONTOUR INTERVAL EQUALS 0.1 FOOT.
28. ALL ELEVATIONS REFER TO NAVD 88 VERTICAL DATUM. COORDINATES REFER NAD 83 HORIZONTAL DATUM.
29. THE TOPOGRAPHIC FEATURES SHOWN HEREON WERE COMPILED FROM FIELD SURVEY PERFORMED BY R.E.Y ENGINEERS, INC. DATED JANUARY 28 , 2019 AND OCTOBER 17, 2022.

PAVING NOTES

30. ALL AREAS TO BE OVERLAID SHALL BE PREPARED IN ACCORDANCE WITH ITEM P-101, "PREPARATION/REMOVAL OF EXISTING PAVEMENTS".
31. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ITEM P-101 "PREPARATION/REMOVAL OF EXISTING PAVEMENTS" AS IT RELATES TO FILLING JOINTS AND CRACKS IN EXISTING PAVEMENT. A MIXTURE OF EMULSIFIED ASPHALT AND SAND IS REQUIRED TO FILL JOINTS AND CRACKS IN EXISTING PAVEMENT. ITEM P-605,"JOINT SEALING FILLER" WILL NOT BE ALLOWED.
32. EMULSIFIED ASPHALT TACK COAT, ITEM P-603, SHALL BE APPLIED PRIOR TO PLACING EACH LIFT OF PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
33. TRANSVERSE PAVING JOINTS IN ONE LAYER SHALL LINE UP WITH TRANSVERSE JOINTS IN THE PREVIOUS LAYERS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
34. TRANSVERSE PAVING JOINTS IN ADJACENT LANES SHALL LINE UP WITH EACH OTHER EXTENDING ACROSS THE FULL WIDTH OF PAVEMENT.
35. IN CASES OTHER THAN CENTERLINE JOINTS, LONGITUDINAL PAVING JOINTS IN ONE LAYER SHALL BE OFFSET FROM THAT IN THE PREVIOUS LAYER BY AT LEAST ONE FOOT. THE JOINT AT THE CENTERLINE OF THE PAVEMENT SHALL LINE UP WITH PREVIOUS LAYER CENTERLINE JOINTS.
36. PROPOSED BITUMINOUS SURFACE COURSE TO BE INSTALLED IN PAVEMENT RECONSTRUCTION AREAS, SHALL BE SUBJECTED TO THE SAME MATERIAL ACCEPTANCE CRITERIA AS THE ASPHALT LEVELING COURSE.
37. COLD JOINTS SHALL BE SAWCUT BACK A MINIMUM OF 6 INCHES TO EXPOSE A CLEAN, SOUND, UNIFORM VERTICAL SURFACE FOR THE FULL DEPTH OF THE LIFT. THE SAWCUT SHALL NOT BE PERFORMED UNTIL THE PAVEMENT HAS REACHED AMBIENT TEMPERATURE.
38. DELAMINATED PAVEMENT SHALL BE REMOVED BY COLD MILLING. THE LIMITS OF DELAMINATED PAVEMENT SHALL BE SAW CUT. THE LOCATION OF THE LIMITS OF DELAMINATED PAVEMENT WILL BE DETERMINED BY THE ENGINEER.

ELECTRICAL AND SIGNAGE NOTES

39. ALL ELECTRICAL WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
40. THE ELECTRICAL CHARACTERISTICS OF PROPOSED EQUIPMENT SHALL BE VERIFIED TO BE COMPATIBLE WITH EXISTING EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
41. ABANDONED CABLES MAY EXIST IN THE VICINITY OF THE PROPOSED WORK. IF ENCOUNTERED, CONTRACTOR SHALL VERIFY THAT THEY ARE ABANDONED PRIOR TO REMOVAL. IF THEY ARE NOT ABANDONED, CABLES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
42. ITEMS OF SPECIFIC MANUFACTURE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE DIRECTIONS.
43. ALL GROUND CONNECTIONS SHALL BE MADE USING EXOTHERMIC CONNECTIONS.
44. GROUND RODS SHALL BE INSTALLED AT 500-FT INTERVALS ALONG COUNTERPOISE WIRE.
45. ALL CABLE CONNECTIONS SHALL BE MADE AT LIGHT UNITS OR AT ENDS OF DUCT BANKS UNLESS DIRECTED OTHERWISE.
46. THE OWNER RESERVES THE RIGHT TO SALVAGE LIGHTING EQUIPMENT. THE EQUIPMENT TO BE SALVAGED IS IDENTIFIED IN THE SPECIFICATION. SALVAGED EQUIPMENT SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE OWNER IN PROPER WORKING CONDITION. ALL OTHER LIGHTING EQUIPMENT SHALL BE SPOILED OFF AIRPORT PROPERTY AT A PROPER DISPOSAL SITE SELECTED BY THE CONTRACTOR.
47. PROVIDE WATERTIGHT TERMINATION FOR ALL BURIED CONDUIT ENDS.
48. ALL RUNWAY AND TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10 FEET OFF THE DEFINED PAVEMENT EDGE UNLESS OTHERWISE NOTED OR DIRECTED. THE CONTRACTOR SHALL ALIGN ALL LIGHTS ON TANGENT SECTIONS SUCH THAT THEY FORM A STRAIGHT LINE.
49. WHEN DETERMINING THE NUMBER OF CHARACTERS IN A GUIDANCE SIGN LEGEND

THE CHARACTERS 1 , . (DOT) , - (DASH) WILL BE CONSIDERED ONE HALF CHARACTER. PAYMENT WILL BE FOR THE SUM OF ALL CHARACTERS ON THE LONGEST FACE ROUNDED UP TO THE WHOLE NUMBER. CHARACTERS ON THE OPPOSITE SIDE OF THE SIGN WILL NOT BE COUNTED.

50. WHEN DETERMINING THE NUMBER OF CHARACTERS IN A GUIDANCE SIGN LEGEND THE SYMBOL ON THE OPPOSITE SIDE OF A RUNWAY HOLDING POSITION SIGN WHICH REPRESENTS THE RUNWAY SAFETY AREA OR THE ILS CRITICAL AREA WILL BE CONSIDERED 4 CHARACTERS.

MARKING NOTES

51. FOR CLARITY PURPOSES, EXISTING RUNWAY MARKINGS TO BE REMOVED ARE NOT SHOWN.
52. REMOVAL OF EXISTING MARKINGS SHALL BE IN ACCORDANCE WITH ITEM P-620.

A1

GENERAL NOTES

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

Ann Mader Stillman

ANN MADER STILLMAN,
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R. C. E. # 47882 / EXPIRES 12-31-2023

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APPROVED DATE: 02-01-2023

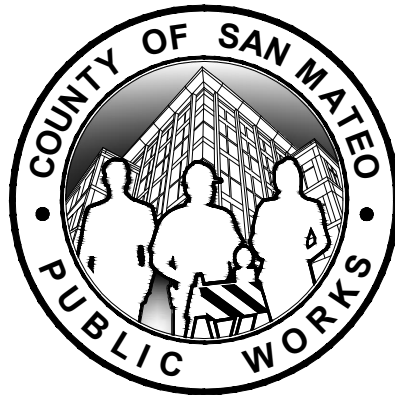
TEDDY D. RAMIL


C&S ENGINEERS, INC.

R.C.E. # C063590

EXPIRES 09-30-2024

Teddy D. Ramil



		DESIGNED BY: E.A. (CAS)	GENERAL NOTES		SCALE: NOT TO SCALE
		CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
		DRAWN BY: E.A. (CAS)			FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
REVISION	DATE	SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES					GI002 SHEET 2 OF 53

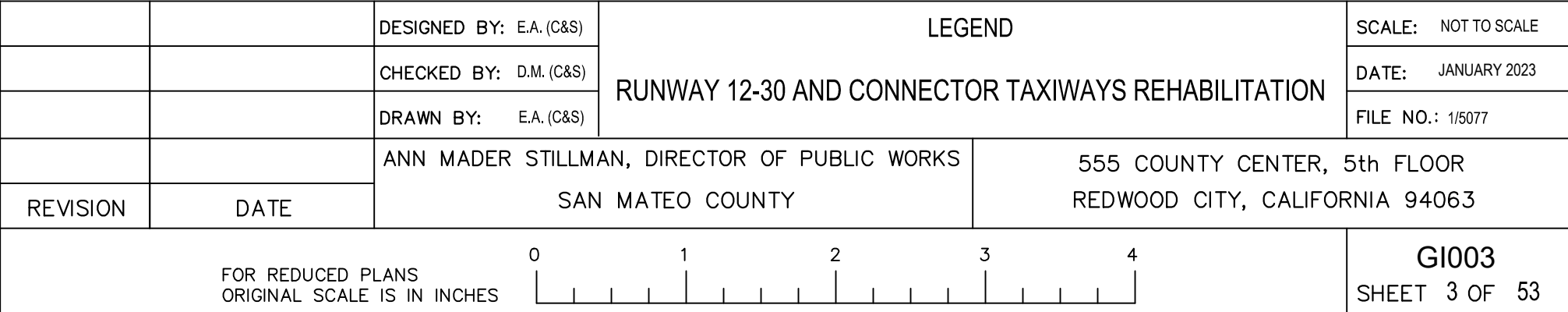


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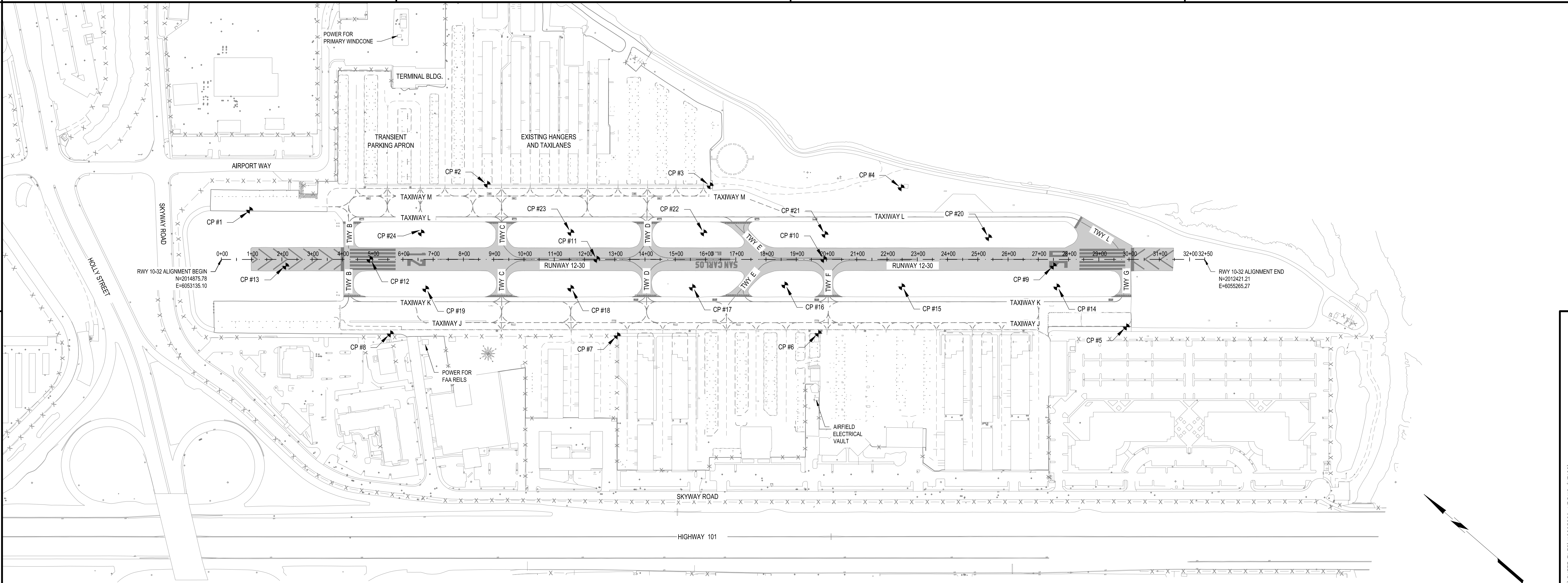
	PROPOSED TIE-DOWN
	PROPOSED SINGLE POST TRAFFIC SIGN
	PROPOSED DOUBLE POST TRAFFIC SIGN
	PROPOSED HOLDING POSITION LIGHT
	PROPOSED SURFACE SENSOR
	PROPOSED BASE MOUNTED EDGE LIGHT
	PROPOSED IN-PAVEMENT EDGE LIGHT
	PROPOSED RETROREFLECTIVE MARKER
	PROPOSED GUIDANCE SIGN
	PROPOSED OVERHEAD ELECTRIC LINE
	PROPOSED SIGN UNIT ID TAG NUMBER
	PROPOSED REIL UNIT
	PROPOSED ELECTRICAL DISCONNECT
	PROPOSED TRANSFORMER
	PROPOSED WIND CONE
	PROPOSED LIGHTED WIND CONE
	PROPOSED ELECTRICAL MANHOLE
	PROPOSED PULLBOX
	PROPOSED JUNCTION CAN
	PROPOSED JUNCTION CAN PLAZA
	PROPOSED AIRFIELD LIGHTING CABLE IN CONDUIT WITH CIRCUIT NUMBER AND NUMBER OF CABLES
	PROPOSED AIRFIELD LIGHTING CABLE IN TRENCH WITH CIRCUIT NUMBER AND NUMBER OF CABLES
	PROPOSED DUCT BANK
	PROPOSED DIRECTIONAL DRILL DUCT BANK
	TEMPORARY SOLAR POWERED OBSTRUCTION LIGHT
	TEST BORING LOCATION
	TEST PIT LOCATION
	PAVEMENT CORE LOCATION
	PROPOSED SILT FENCE LOCATION
	PROPOSED CHECK DAM LOCATION
	PROPOSED STORM DRAIN INLET PROTECTION
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE LOCATION
	PROPOSED ROCK OUTLET PROTECTION LOCATION
	PROPOSED SEDIMENT TRAP LOCATION

B3	NOT USED
	SCALE: NOT TO SCALE

A3	NOT USED
	SCALE: NOT TO SCALE



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B1 GENERAL PLAN & SURVEY CONTROL
SCALE: 1" = 150'

CONTROL POINTS / SITE BENCHMARKS					
POINT NO.	NORTHING	EASTING	ELEVATION	STATION	DESCRIPTION
CP #1	2014911.95	6053319.25	106.45'	0+93.29	REY 201 MAG
CP #2	2014374.63	6053898.47	103.64'	8+78.76	REY 202 MAG
CP #3	2013815.33	6054377.89	103.25'	16+15.04	REY 203 MAG AT END V-GUTTER
CP #4	2013334.10	6054786.90	103.76'	22+45.76	REY 204 MAG AT SHACK
CP #5	2012470.30	6054927.21	103.56'	29+90.56	REY 205 MAG
CP #6	2013225.10	6054243.58	104.51'	19+72.22	REY 206 MAG
CP #7	2013722.08	6053802.57	102.96'	13+08.71	REY 207 MAG
CP #8	2014292.77	6053315.91	104.76'	5+58.80	REY 208 MAG
CP #9	2012784.51	6054921.00	105.09'	27+50.07	REY 500 MAG
CP #10	2013372.34	6054440.15	104.82'	19+90.56	REY 501 MAG
CP #11	2013939.10	6053948.56	105.14'	12+40.68	REY 502 MAG
CP #12	2014505.24	6053456.76	105.09'	4+90.76	REY 503 MAG
CP #13	2014700.30	6053257.69	104.79'	2+13.10	REY 504 MAG
CP #14	2012735.33	6054874.33	103.82'	27+61.35	WP10000 60D NAIL
CP #15	2013121.31	6054539.73	103.05'	22+49.00	WP10001 60D
CP #16	2013415.21	6054291.32	102.50'	18+62.08	WP10002 60D NAIL
CP #17	2013640.36	6054084.61	103.41'	15+56.88	WP10003 60D NAIL

CONTROL POINTS / SITE BENCHMARKS					
POINT NO.	NORTHING	EASTING	ELEVATION	STATION	DESCRIPTION
CP #18	2013940.95	6053820.62	102.91'	11+54.76	WP10004 60D NAIL
CP #19	2014300.42	6053505.84	103.37'	6+75.39	WP10005 60D NAIL
CP #20	2013010.20	6054848.98	102.88'	25+35.90	TWP 10006 60D NAIL
CP #21	2013425.02	6054504.19	102.46'	19+94.87	TWP 10007 60D NAIL
CP #22	2013728.65	6054245.68	102.59'	15+94.22	TWP 10008 60D NAIL
CP #23	2014060.68	6053959.16	102.56'	11+55.03	TWP 10009 60D NAIL
CP #24	2014432.94	6053635.83	102.74'	6+60.63	TWP10010 60D NAIL

1. THE TOPOGRAPHIC FEATURES SHOWN HEREON WERE COMPILED FROM FIELD SURVEY PERFORMED BY R.E.Y ENGINEERING DATED JANUARY 28, 2019 AND OCTOBER 17, 2022.
2. CONTRACTOR SHALL PROTECT ALL CONTROL POINTS, IF DISTURBED, THE CONTRACTOR SHALL REESTABLISH AT THEIR COST.

BASIS OF COORDINATES

COORDINATES SHOWN HEREON ARE IN TERMS OF NAD83 (2011), EPOCH 2010.0, CALIFORNIA STATE PLANE COORDINATE ZONE 3. BASED LOCALLY UPON TIES TO STATIONS "CARLPORT" AND "CARLPORT AZ MK" AS PUBLISHED BY NGS.

BASIS OF ELEVATIONS

ELEVATIONS SHOWN HEREON ARE IN TERMS OF NAVD88, BASED LOCALLY UPON REDWOOD CITY BENCHMARK #1, LOCATED AT THE INTERSECTION OF REDWOOD SHORES PARKWAY AND TWIN DOLPHIN DRIVE. PUBLISHED ELEVATION=6.55, PROJECT ELEVATION =106.55.

A1 CONTROL POINTS/SITE BENCHMARKS TABLE
SCALE: NOT TO SCALE

A3 NOTES
SCALE: NOT TO SCALE

APPROVED: _____
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

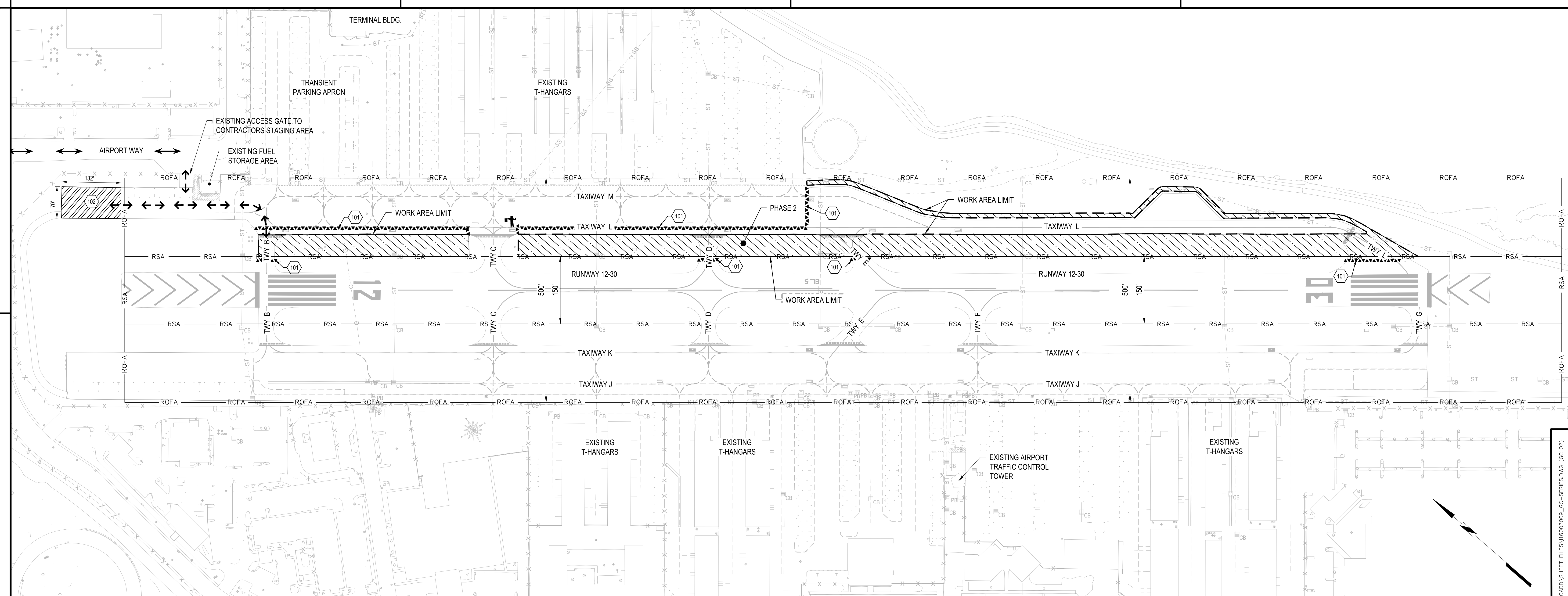
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024

DESIGNED BY: E.A. (CAS)	GENERAL PLAN & SURVEY CONTROL	SCALE: 1" = 150'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

G101
SHEET 4 OF 53



B1 CONSTRUCTION SAFETY & PHASING PLAN - PHASE2
SCALE: 1" = 100'

- KEYED NOTES:**
101. BARRICADE LOCATION (TYP.). SEE DETAIL A4/GC101.
102. CONTRACTORS STAGING AREA.

- LEGEND:**
- ← → WORK AREA HAUL ROUTE
- WORK AREA LIMIT
- ▲▲▲▲▲▲▲▲ LOW PROFILE BARRICADES
- ▨ WORK AREA
- ▨ CONTRACTOR STAGING AREA
- ↔ CONTRACTOR'S ACCESS ROUTE
- 🚧 FLAGGER

- ALL PERSONAL VEHICLES SHALL BE PARKED IN THE STAGING AREA.
- THE STAGING AREA IS NOT FENCED OR SECURED. FENCING & SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION SAFETY PLAN IN SECTION 70 OF THE CONTRACT DOCUMENTS.
- AIRPORT CTAF FREQUENCY = 119.0 MHz
- MAXIMUM EQUIPMENT HEIGHT = 25 FEET
- CONSTRUCTION OF PHASE 2 MUST BE COMPLETED IN 15 CALENDAR DAYS FOLLOWING THE COMPLETION OF WORK IN PHASE 1.
- CONTRACTOR SHALL PROVIDE AT MINIMUM A THREE WEEK NOTICE BEFORE ANY RUNWAY CLOSURE WORK COMMENCES.
- CONSTRUCTION OF PHASE 2 TO OCCUR DURING NIGHT CLOSURE OF TAXIWAY L, TAXIWAY M BETWEEN CONNECTOR TAXIWAY E AND THE CONVERGENCE POINT WITH TAXIWAY L, AND CONNECTOR TAXIWAY B, D, E & L AT THE EASTERLY LIMIT OF THE RUNWAY SAFETY AREA. WORKING HOURS SHALL BE FROM 6PM-6AM. WORK WITHIN PHASE 2 INCLUDES: MOBILIZATION & SETUP, PAVEMENT DEMOLITION, OVER-EXCAVATION, ELECTRICAL, LOCALIZE STORM DRAIN IMPROVEMENTS, PAVING, STRIPING AND CLEAN UP.
- CONSTRUCTION VEHICLES SHALL YIELD TO TAXIING AIRCRAFT AT ALL TIMES IN ALL AREAS OF THE AIRPORT. TAXIING AIRCRAFT SHALL ALWAYS HAVE THE RIGHT OF WAY.
- CONSTRUCTION VEHICLES MUST BE MARKED WITH AMBER BEACONS (DAY /NIGHT) OR ORANGE AND WHITE FLAGS DURING DAYLIGHT HOURS.
- CONTRACTOR SHALL ELIMINATE FOREIGN OBJECT DEBRIS PER THE CONSTRUCTION SAFETY PLAN PRIOR TO RE-OPENING WORK AREAS TO AIR TRAFFIC.
- CONTRACTOR SHALL NOTIFY THE AIRPORT IF AIRPORT ACCESS GATE IS TO BE LEFT OPEN DURING CONTRACTOR'S OPERATION. CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL APPROVED BY THE AIRPORT TO ENSURE ONLY AUTHORIZED VEHICLES USE THE ACCESS GATE.
- CONTRACTOR SHALL PROVIDE FLAGGING PERSONNEL AS REQUIRED IF AIRPORT ACCESS GATE IS TO BE LEFT OPEN DURING HAULING OPERATIONS.
- ALL ROADS USED TO ACCESS SITE SHALL BE MAINTAINED. AT THE COMPLETION OF ALL CONSTRUCTION ACTIVITY, ROADS SHALL BE OPENED AT SAME OR BETTER CONDITION (TYP.).
- AT NO TIME SHALL CONTRACTOR PERSONNEL OR EQUIPMENT BE WITHIN 150' OF AN ACTIVE RUNWAY CENTERLINE OR AN ACTIVE TAXIWAY(S) WITHOUT APPROVAL FROM AIRPORT.
- ALL CONSTRUCTION DEBRIS INCLUDING DIRT TRACKING OUTSIDE THE STAGING AREA(S) SHALL BE CLEANED UP IMMEDIATELY.
- CONTRACTOR TO PERFORM A FOD INSPECTION BEFORE THE END OF EACH NIGHT SHIFT AND PRIOR TO OPENING THE TAXIWAYS TO AIRCRAFT TRAFFIC.
- CONTRACTOR TO USE LIGHTED RUNWAY CLOSURE MARKERS AND LOW PROFILE BARRICADES PROVIDED BY THE CONTRACTOR.
- FAA EQUIPMENT AND INFRASTRUCTURE ARE WITHIN THE PROJECT AREA. ALL SHUTDOWNS MUST BE COORDINATED WITH FAA. FAA REQUIRE A MINIMUM OF TWO WEEK NOTIFICATION. CONTRACTOR SHALL INCLUDE THE FAA COORDINATION IN THE SCHEDULE AND ALLOW AMPLE TIME FOR FAA TO COMPLETE ANY PLANNED SHUTDOWN.

A1 LEGEND AND KEYED NOTES
SCALE: NOT TO SCALE

A2 GENERAL CSPP NOTES
SCALE: NOT TO SCALE

A4 NOT USED
SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

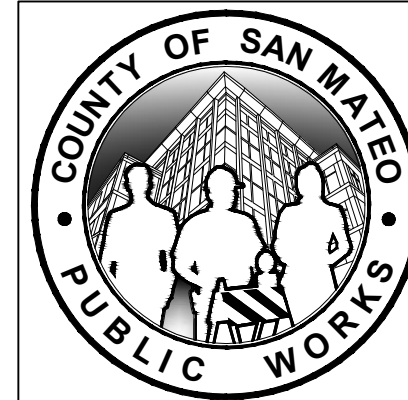
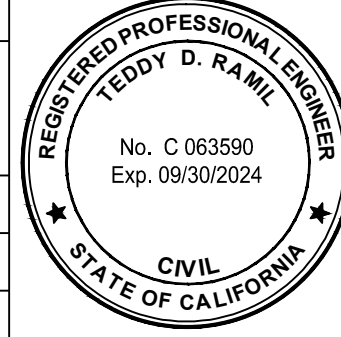
ANN MADER STILLMAN
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024

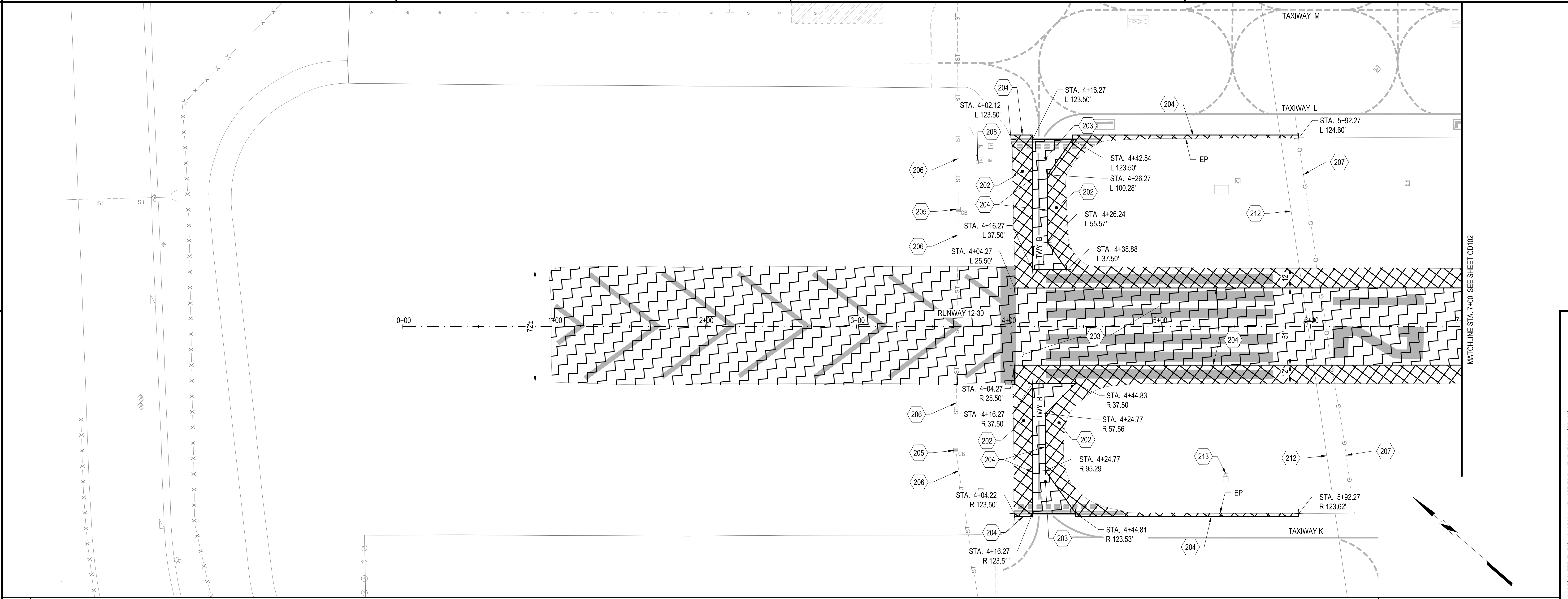


DESIGNED BY: E.A. (CAS)		CONSTRUCTION SAFETY & PHASING PLAN - PHASE2		SCALE: 1" = 100'
CHECKED BY: D.M. (CAS)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION		DATE		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
				GC102 SHEET 6 OF 53

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

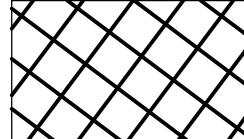
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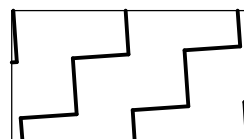
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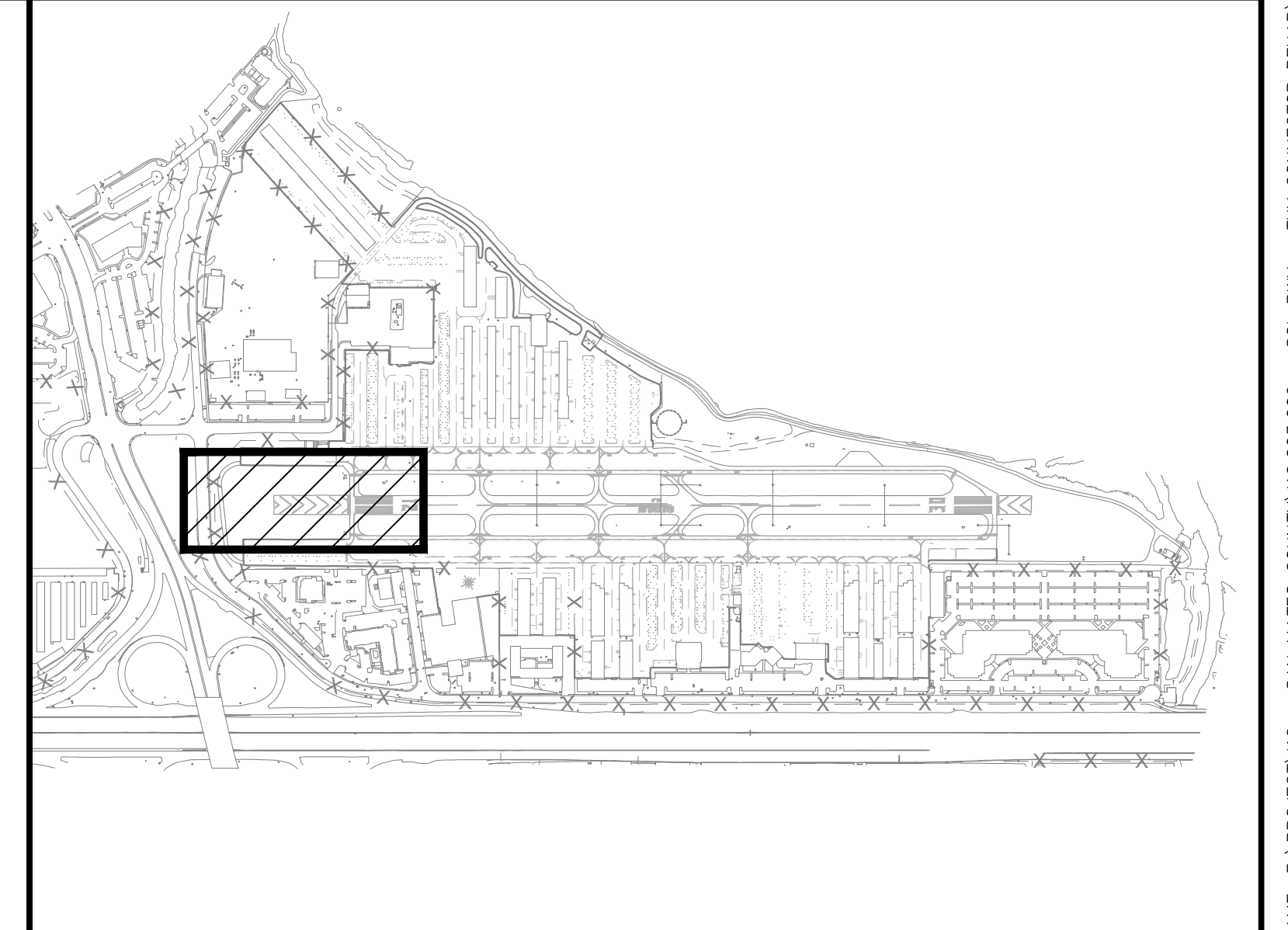
B1 DEMOLITION PLAN - PAVEMENT
SCALE: 1" = 30'

202. REMOVE ASPHALT PAVEMENT STRUCTURAL SECTION.
203. PREPARE PAVEMENT SURFACE FOR SEAL COAT.
204. SAW CUT PAVEMENT TO PROVIDE A CLEAN VERTICAL FACE (TYP.).
205. STORM DRAIN CATCH BASIN TO REMAIN, PROTECT IN PLACE.
206. STORM DRAIN PIPE TO REMAIN, PROTECT IN PLACE.
207. NATURAL GAS LINE TO REMAIN, PROTECT IN PLACE.
208. TELECOMMUNICATIONS STRUCTURE TO REMAIN, PROTECT IN PLACE.
212. UTILITY TUNNEL TO REMAIN, PROTECT IN PLACE.
213. EXISTING SOLAR POWER CAMERA SYSTEM ON A PORTABLE BASE TO BE CAREFULLY MOVED OUT OF THE WAY TO AN AIRPORT DESIGNATED LOCATION DURING CONSTRUCTION. ONCE FINAL GRADING HAS BEEN COMPLETED, CONTRACTOR TO CAREFULLY PLACE IT BACK TO ITS ORIGINAL LOCATION.

 REMOVE EXISTING PAVEMENT STRUCTURAL SECTION

 PREPARE PAVEMENT SURFACE FOR SEAL COAT

- NOTES:
- SEE SHEETS ED101 THROUGH ED 105 FOR ELECTRICAL DEMOLITION INFORMATION.
 - SEE SHEETS XD101 THROUGH XD104 FOR PAVEMENT MARKING DEMOLITION AND RUBBER REMOVAL INFORMATION.




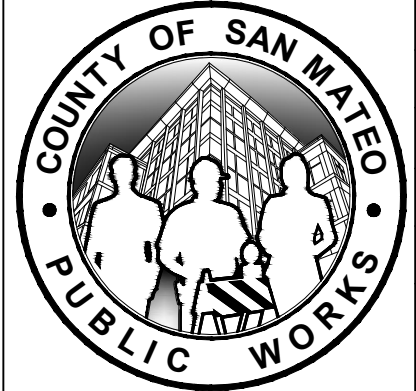


A1 KEYED NOTES
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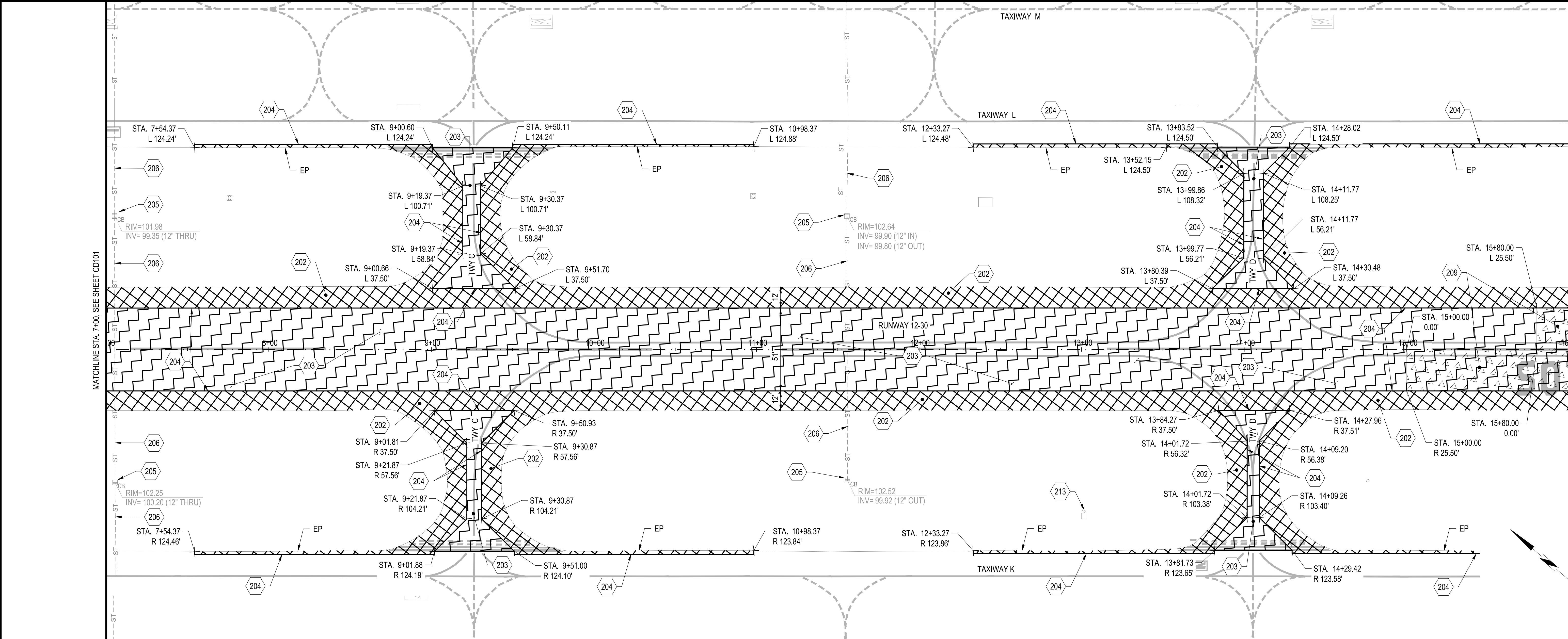
A2 LEGEND
SCALE: NOT TO SCALE

A3 SHEET NOTES
SCALE: NOT TO SCALE

A4 KEY MAP
SCALE: NOT TO SCALE

	APPROVED:	C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com		APPROVED DATE: 01-27-2023			DESIGNED BY: E.A. (C&S)	DEMOLITION PLAN - PAVEMENT		SCALE: 1" = 30'
	DATE: 1/27/2023			CHECKED BY: D.M. (C&S)			RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023	
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023				TEDDY D. RAMIL C&S ENGINEERS, INC. R.C.E. # C 063590 EXPIRES 09-30-2024			DRAWN BY: E.A. (C&S)	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	FILE NO.: 15077
						REVISION		DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	
									0 1 2 3 4	
									CD101 SHEET 8 OF 53	

FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL RWY - TRY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\16003009_CD-SERIES PAVEMENT.DWG (CD101)

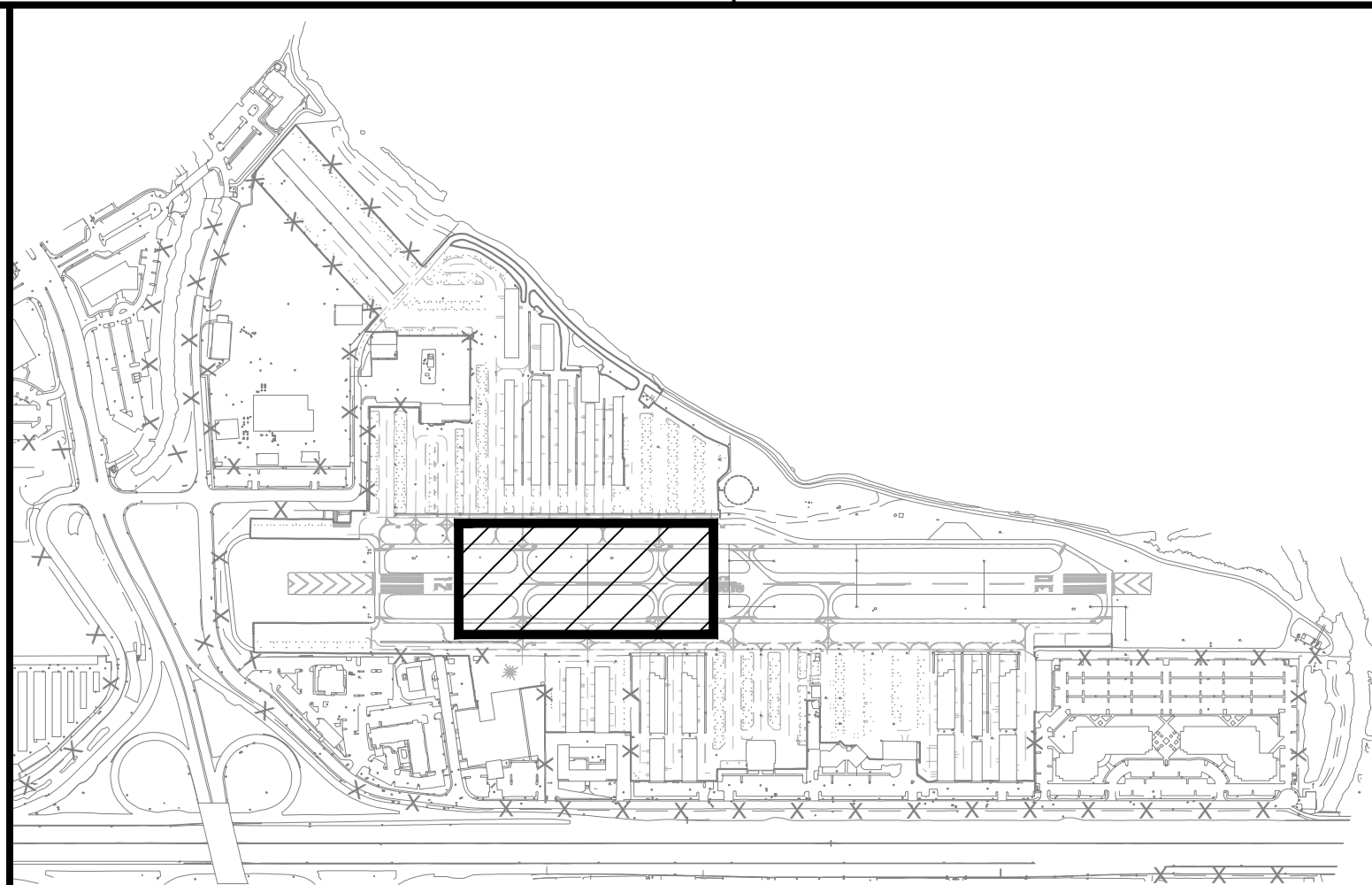


B1 DEMOLITION PLAN - PAVEMENT
SCALE: 1" = 30'

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203. PREPARE PAVEMENT SURFACE FOR SEAL COAT.
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205. STORM DRAIN CATCH BASIN TO REMAIN, PROTECT IN PLACE.
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209. PARTIAL DEPTH MILLING OF EXISTING PAVEMENT TO REMOVE SURFACE BUMP. EXACT LIMITS AND DEPTH TO BE VERIFIED OUT IN THE FIELD BY THE CONTRACTOR AND ENGINEER.
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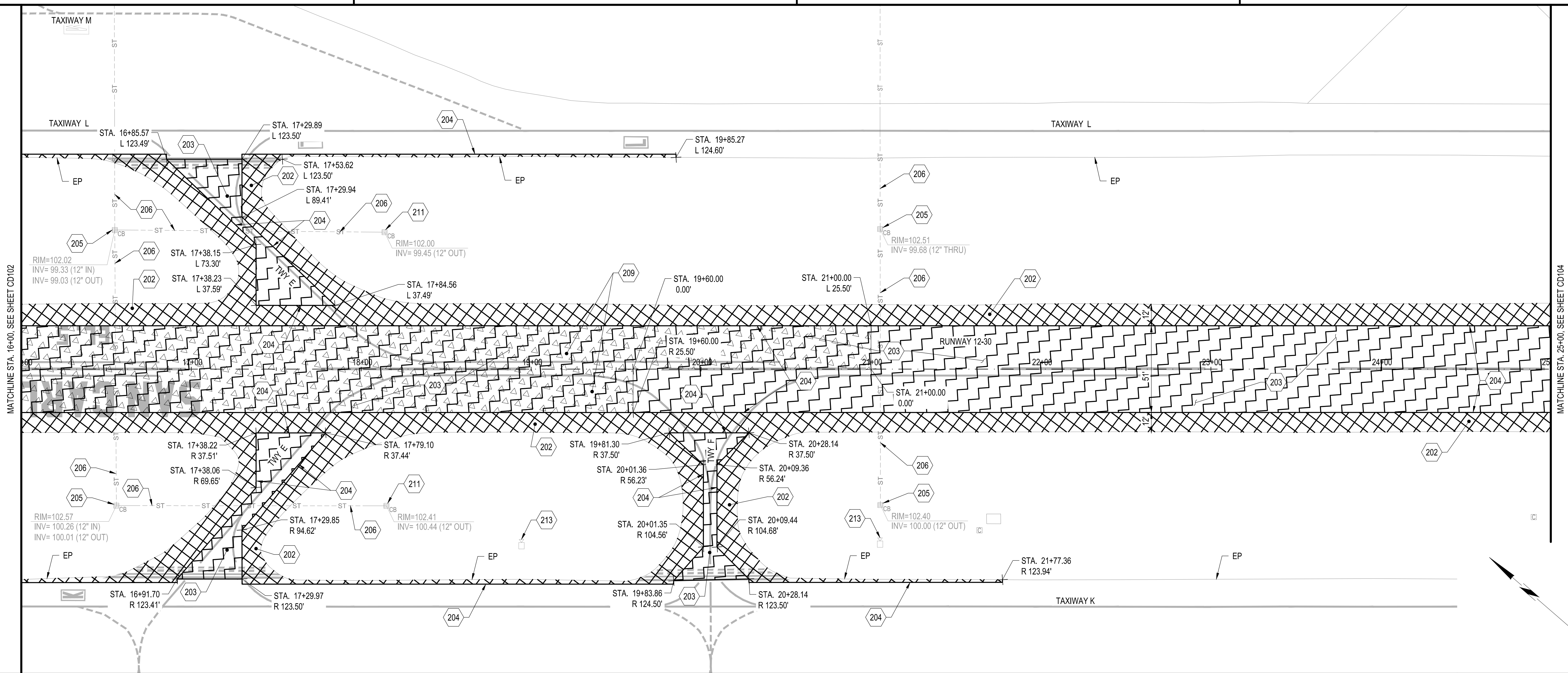
	REMOVE EXISTING PAVEMENT STRUCTURAL SECTION
	PREPARE PAVEMENT SURFACE FOR SEAL COAT
	MILL EXISTING PAVEMENT TO REMOVE SURFACE BUMP

- NOTES:
- SEE SHEETS ED101 THROUGH ED 105 FOR ELECTRICAL DEMOLITION INFORMATION.
 - SEE SHEETS XD101 THROUGH XD104 FOR PAVEMENT MARKING DEMOLITION AND RUBBER REMOVAL INFORMATION.



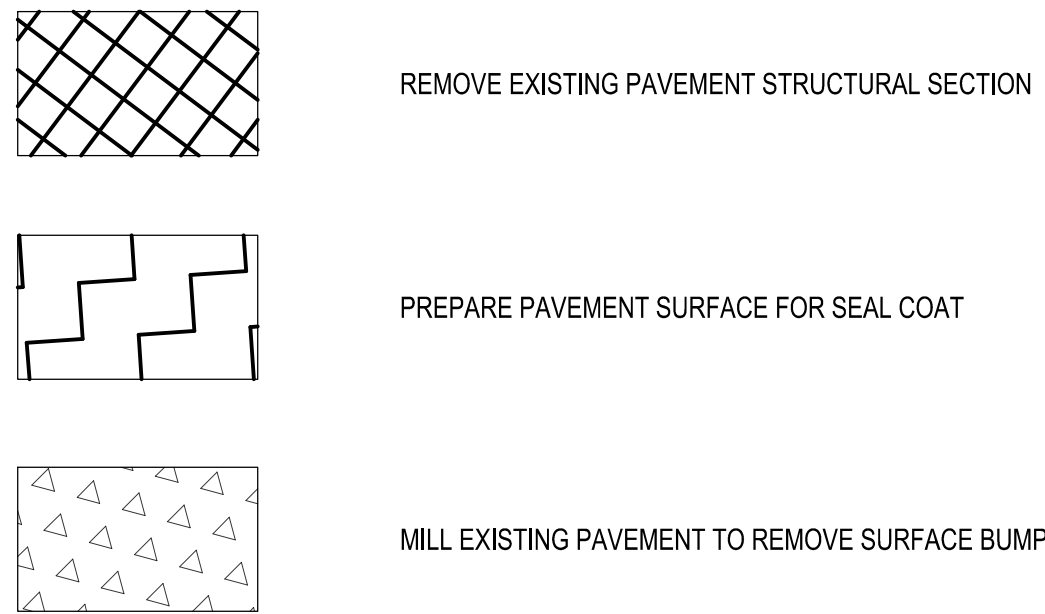
A1 KEYED NOTES SCALE: NOT TO SCALE
A2 LEGEND SCALE: NOT TO SCALE
A3 SHEET NOTES SCALE: NOT TO SCALE
A4 KEY MAP SCALE: NOT TO SCALE

	APPROVED:	C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com		APPROVED DATE: 01-27-2023			DESIGNED BY: EA (CAS)	DEMOLITION PLAN - PAVEMENT	SCALE: 1" = 30'	
	DATE: 1/27/2023			CHECKED BY: DM (CAS)			DATE: JANUARY 2023			
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023				TEDDY D. RAMIL			DRAWN BY: EA (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		
				C&S ENGINEERS, INC.			ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	FILE NO.: 15077
				R.C.E. # C 063590 EXPIRES 09-30-2024			REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	CD102 SHEET 9 OF 53

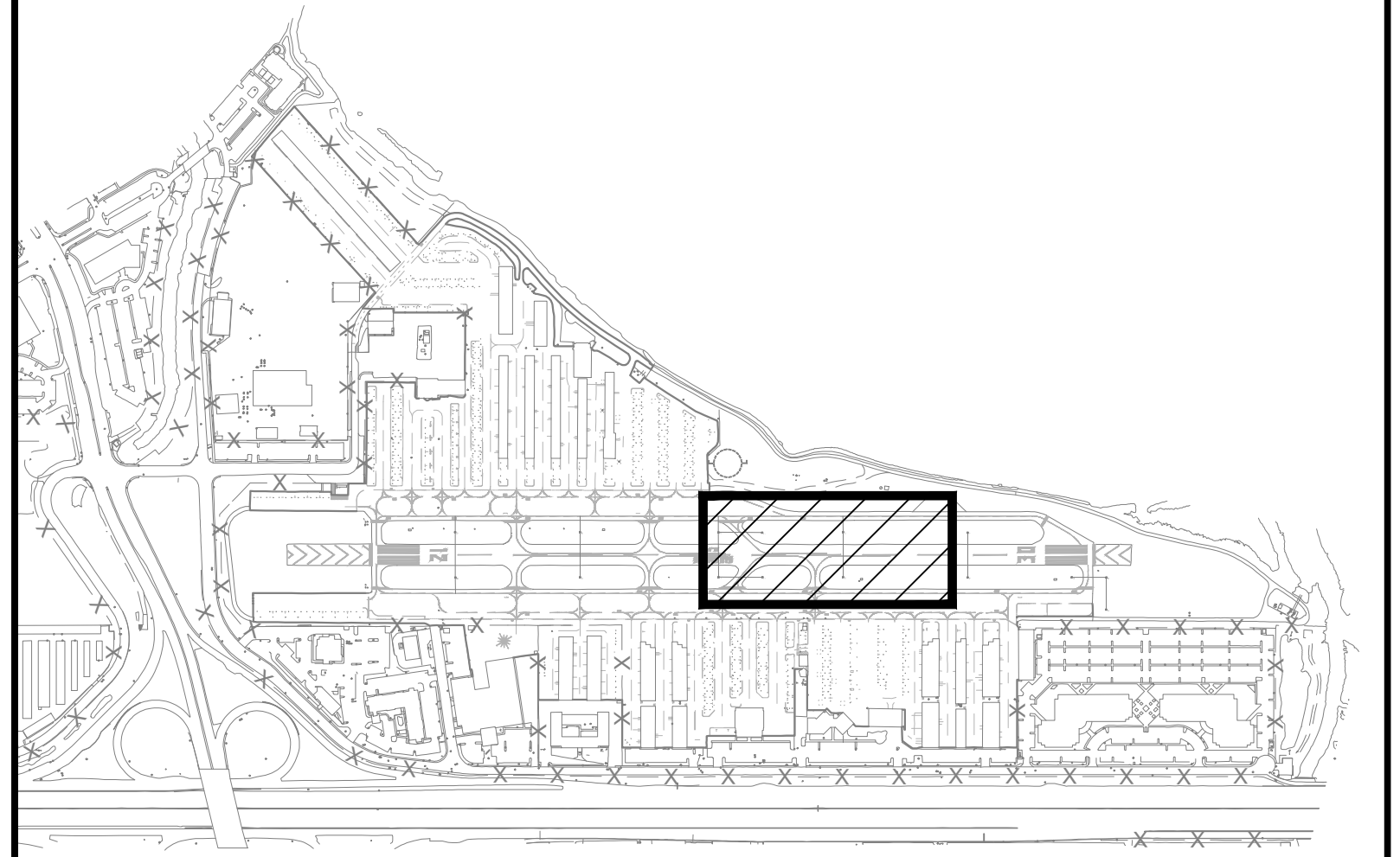


B1 DEMOLITION PLAN - PAVEMENT
SCALE: 1" = 30'

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- NOTES:
- SEE SHEETS ED101 THROUGH ED 105 FOR ELECTRICAL DEMOLITION INFORMATION.
 - SEE SHEETS XD101 THROUGH XD104 FOR PAVEMENT MARKING DEMOLITION AND RUBBER REMOVAL INFORMATION.



A1 KEYED NOTES SCALE: NOT TO SCALE

A2 LEGEND SCALE: NOT TO SCALE

A3 SHEET NOTES SCALE: NOT TO SCALE

A4 KEY MAP SCALE: NOT TO SCALE



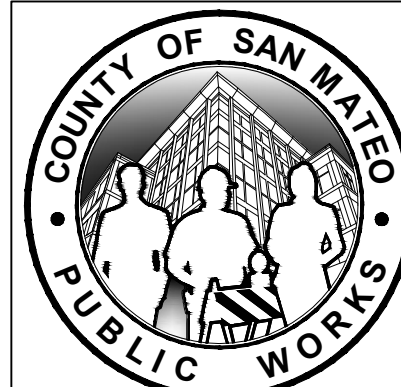
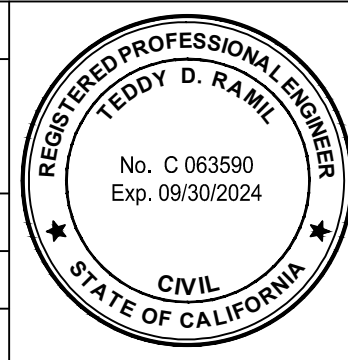
APPROVED:
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ANN MADER STILLMAN
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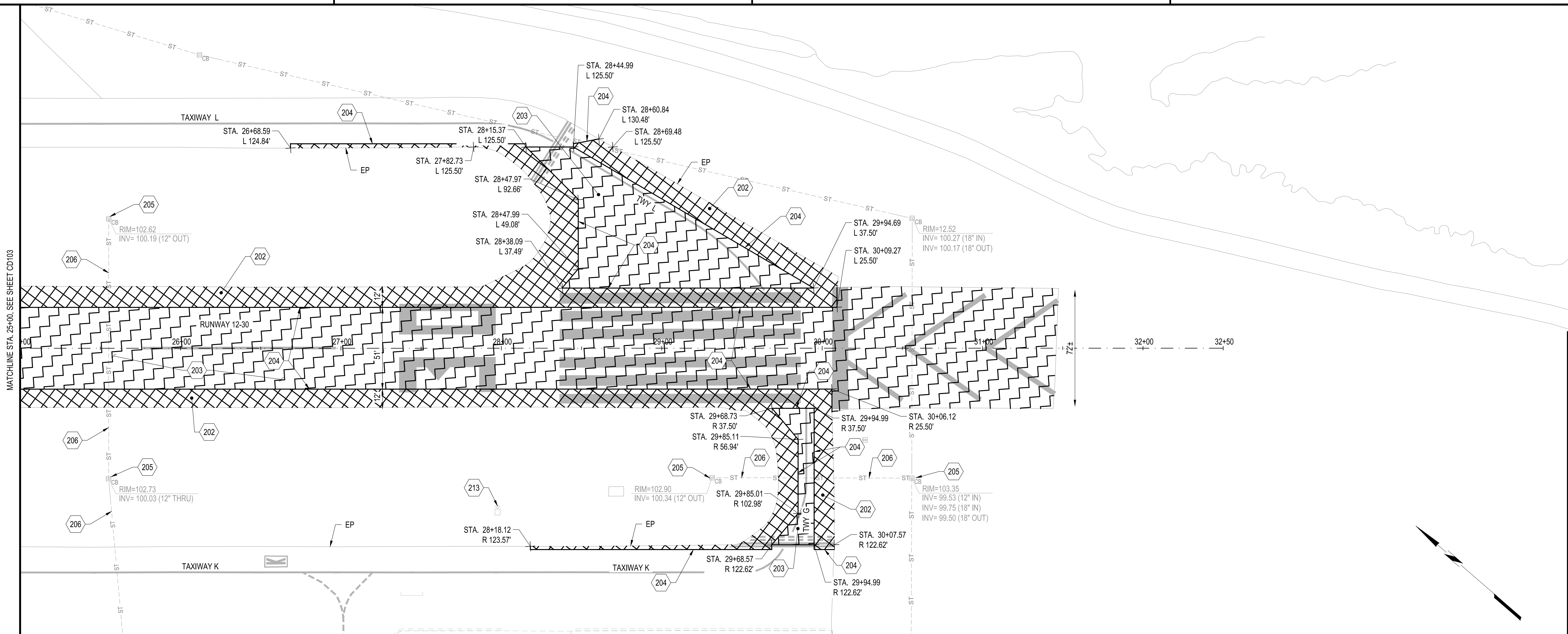


APPROVED DATE: 01-27-2023
TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C 063590 EXPIRES 09-30-2024

APPROVED DATE: 01-27-2023
TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C 063590 EXPIRES 09-30-2024



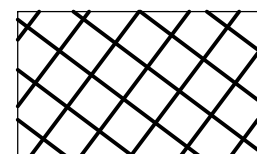
DESIGNED BY: E.A. (CAS)	DEMOLITION PLAN - PAVEMENT	SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	FILE NO.: 15077
REVISION	DATE	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		CD103 SHEET 100F 53



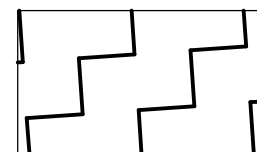
B1 DEMOLITION PLAN - PAVEMENT

SCALE: 1" = 30'

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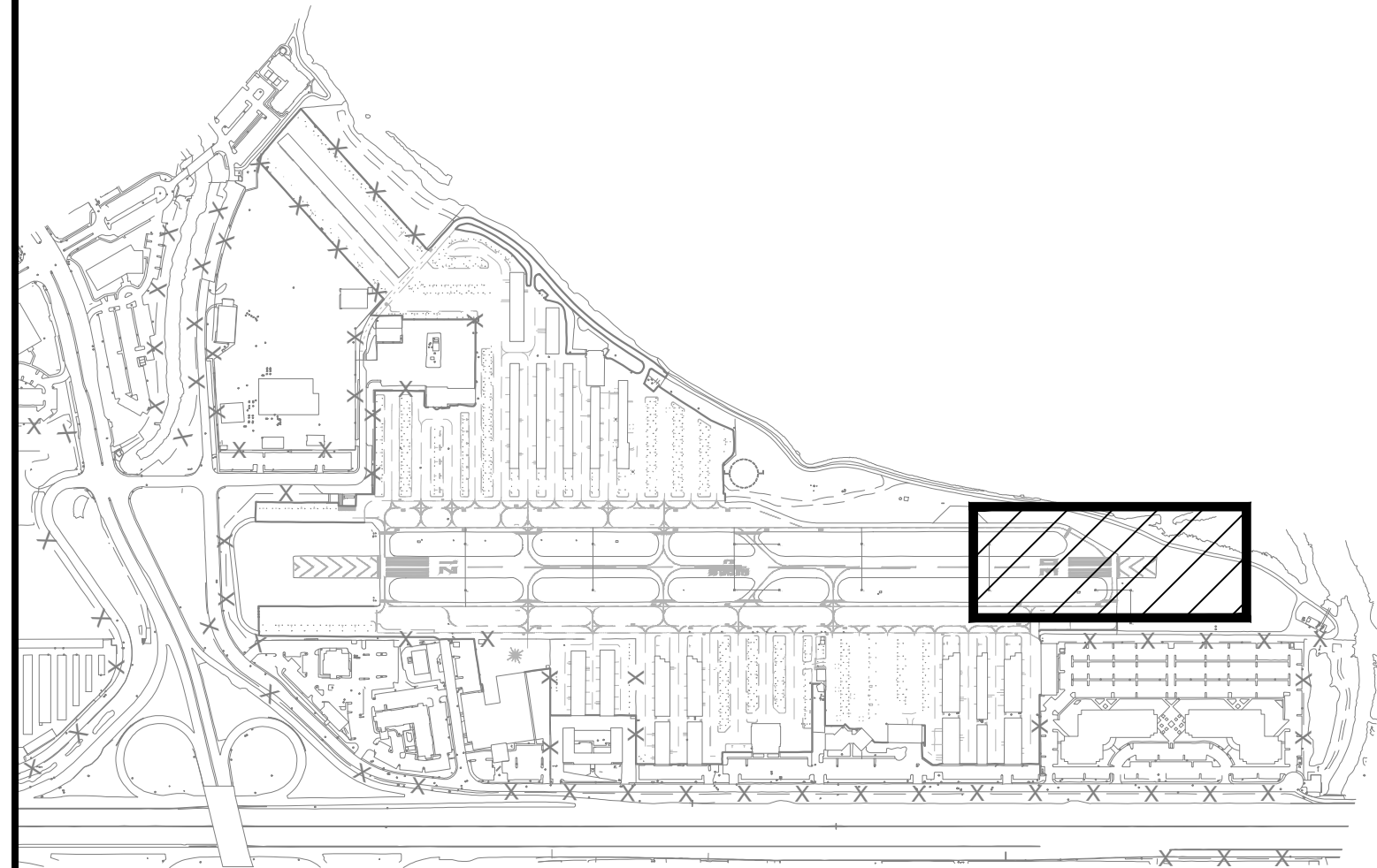
REMOVE EXISTING PAVEMENT STRUCTURAL SECTION



PREPARE PAVEMENT SURFACE FOR SEAL COAT

NOTES:

1. SEE SHEETS ED101 THROUGH ED 105 FOR ELECTRICAL DEMOLITION INFORMATION.
2. SEE SHEETS XD101 THROUGH XD104 FOR PAVEMENT MARKING DEMOLITION AND RUBBER REMOVAL INFORMATION.



A1 KEYED NOTES

SCALE: NOT TO SCALE

A2 LEGEND

SCALE: NOT TO SCALE

A3 SHEET NOTES

SCALE: NOT TO SCALE

A4 KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

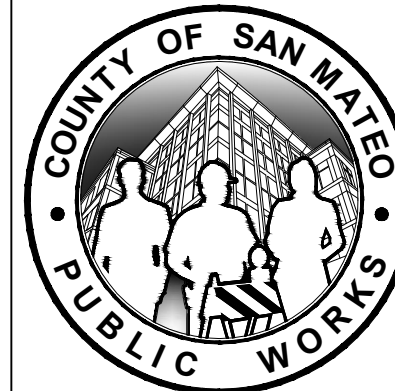
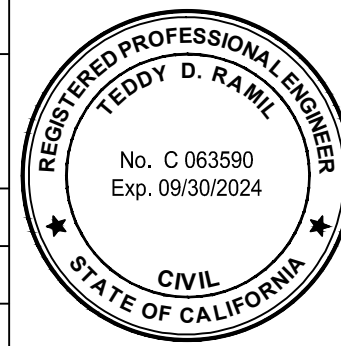
C&S Engineers, Inc.
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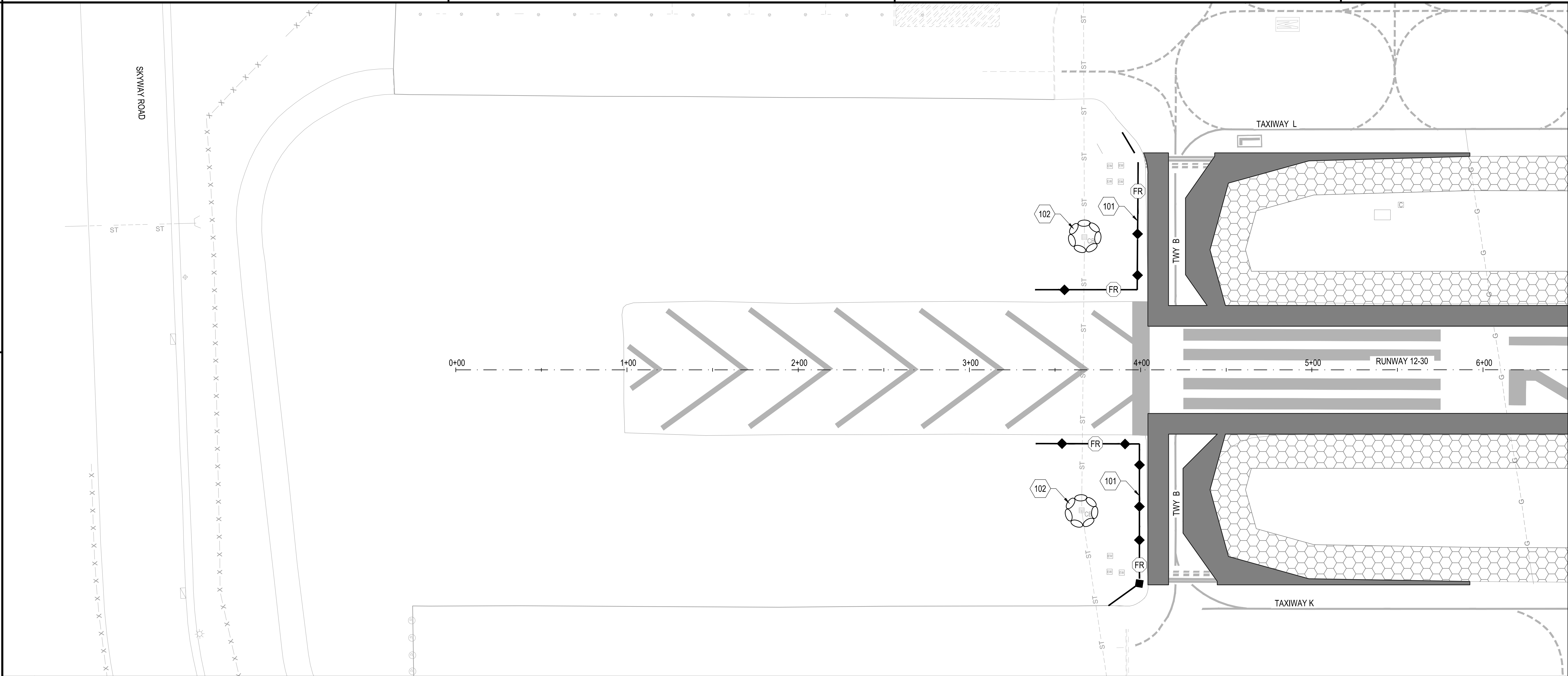
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C 063590 EXPIRES 09-30-2024

[Signature]



DESIGNED BY: E.A. (CAS)		DEMOLITION PLAN - PAVEMENT		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION		SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
DATE		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		CD104 SHEET 110F 53



B1 SOIL EROSION & SEDIMENT CONTROL PLAN
SCALE: 1" = 30'

101. FIBER ROLL (TYP.), ITEM C-102, SEE DETAIL A1/CE501
102. INLET PROTECTION (TYP.), ITEM C-102, SEE DETAIL A3/CE501

A2 LEGEND
SCALE: NOT TO SCALE

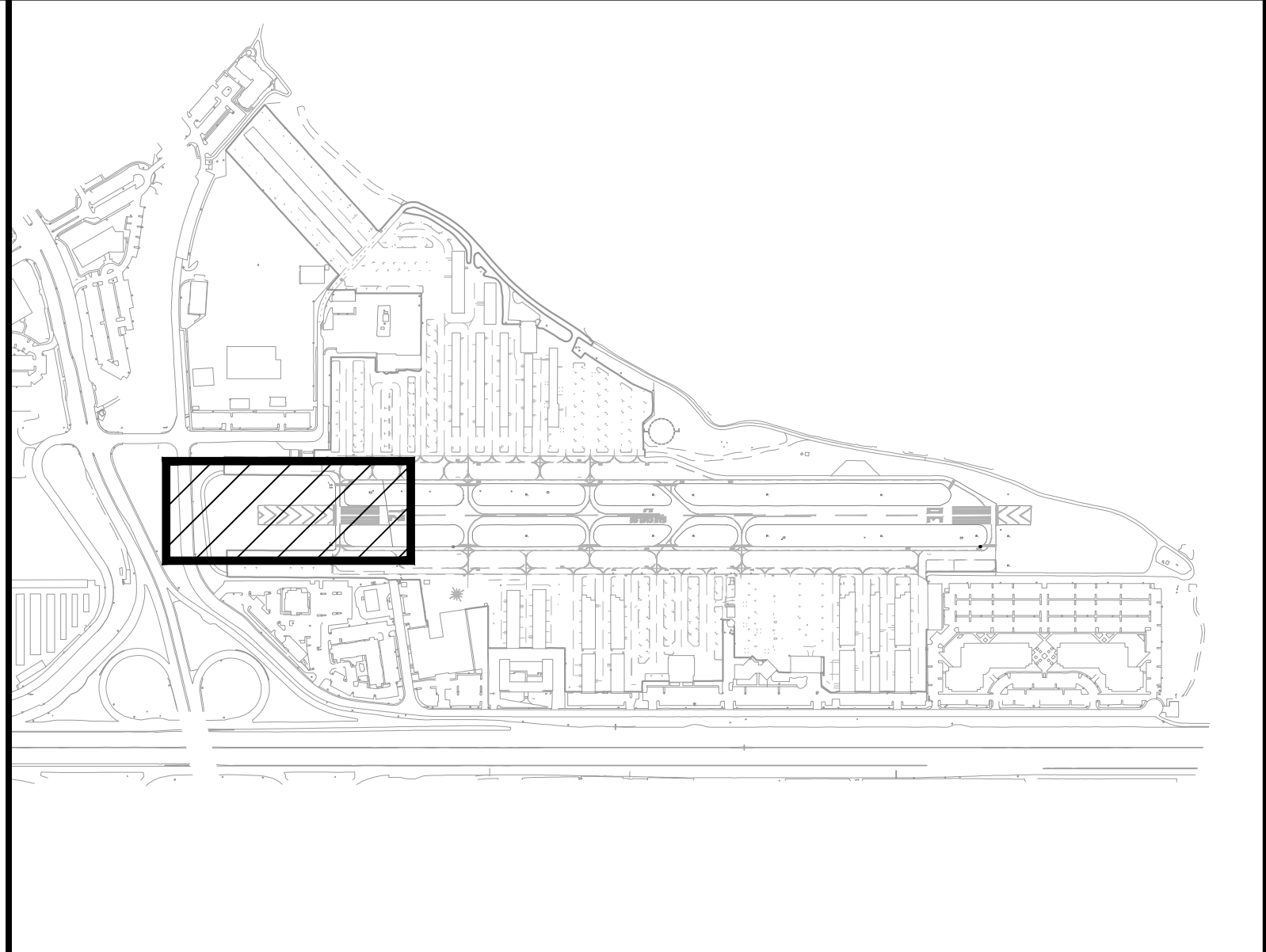
XX — PROPOSED INLET PROTECTION

— (FR) — PROPOSED FIBER ROLL

— PROPOSED PAVEMENT

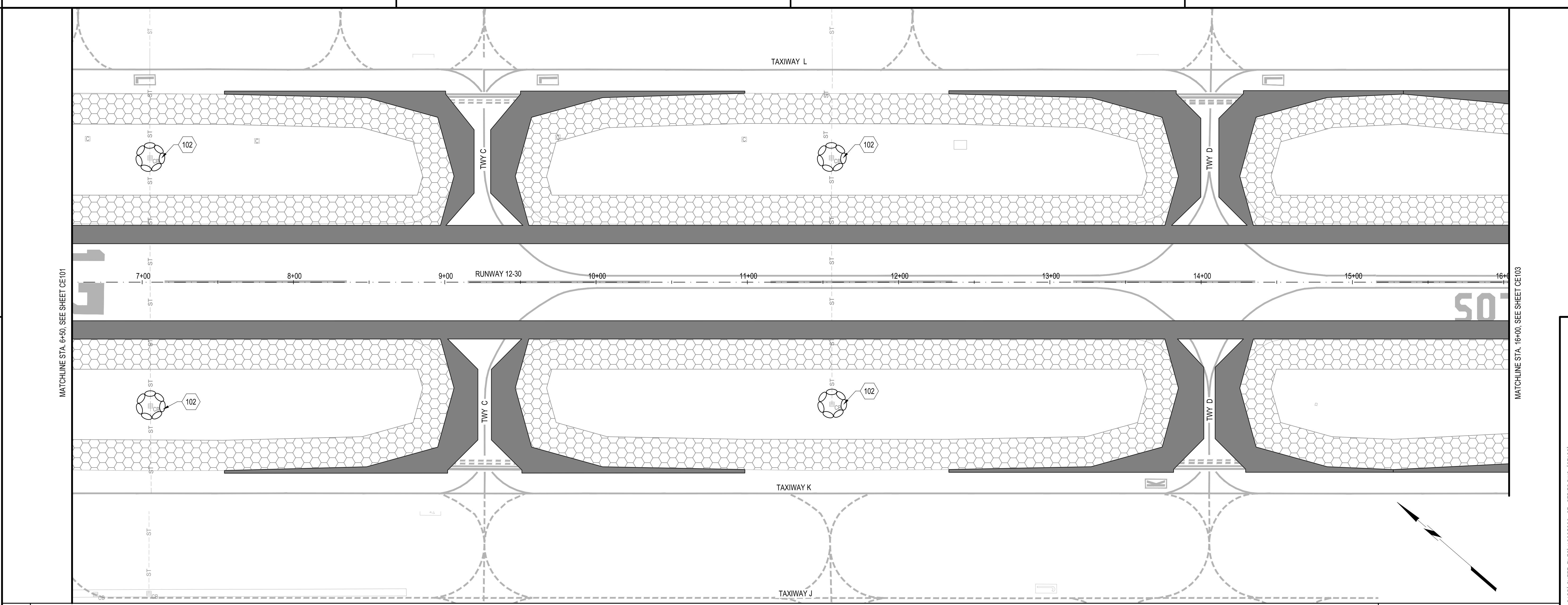
— PROPOSED RSA SOIL STABILIZATION

- A3 GENERAL NOTES**
SCALE: NOT TO SCALE
- GENERAL NOTES:
- ALL STATE AND LOCAL EROSION SEDIMENT CONTROL REQUIREMENTS SHALL BE MET. ALL ITEMS ASSOCIATED SHALL BE PAID FOR UNDER ITEM C-102, COMPLIANCE WITH POLLUTION, EROSION AND SILTATION CONTROL UNLESS OTHERWISE NOTED.
 - TEMPORARY INLET PROTECTION SHALL BE USED AT ALL INLETS ON SITE WITHIN CONSTRUCTION LIMITS, WHETHER SHOWN ON THIS PLAN OR NOT.
 - LOCATION OF DRAINAGE INLETS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY ALL EXISTING DRAINAGE INLET LOCATIONS.
 - CONTRACTOR IS RESPONSIBLE TO REMOVE ALL TEMPORARY INLET PROTECTION MATERIALS FROM SITE AFTER COMPLETION OF CONSTRUCTION.
 - SEE SHEET CE 501 FOR ALL BMP DETAILS.



A1 KEYED NOTES
SCALE: NOT TO SCALE

	APPROVED:	C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com		APPROVED DATE: 01-27-2023			DESIGNED BY: E.A. (C&S)	SOIL EROSION & SEDIMENT CONTROL PLAN	SCALE: 1" = 30'	
	DATE: 1/27/2023			TEDDY D. RAMIL			CHECKED BY: D.M. (C&S)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023	
	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023			R.C.E. # C063590			ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	CE101	
				SAN MATEO COUNTY			REDWOOD CITY, CALIFORNIA 94063	SHEET 12 OF 53		
							REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	0 1 2 3 4



B1 SOIL EROSION & SEDIMENT CONTROL PLAN
SCALE: 1" = 30'

102. INLET PROTECTION (TYP.), ITEM C-102, SEE DETAIL A3/CE501

A2 LEGEND
SCALE: NOT TO SCALE

XX
PROPOSED INLET PROTECTION

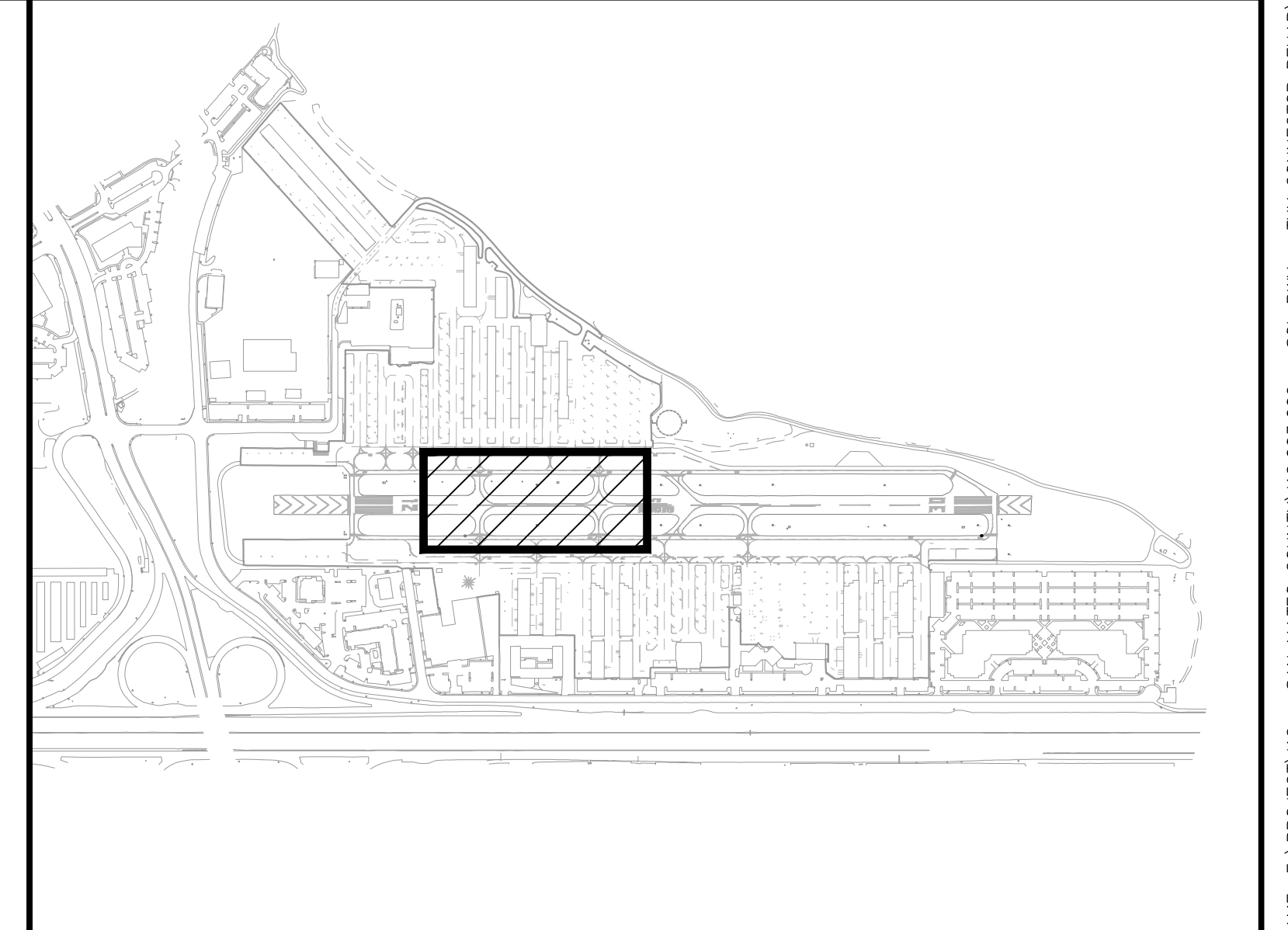
PROPOSED PAVEMENT

PROPOSED RSA SOIL STABILIZATION

A3 GENERAL NOTES
SCALE: NOT TO SCALE

GENERAL NOTES:

- ALL STATE AND LOCAL EROSION SEDIMENT CONTROL REQUIREMENTS SHALL BE MET. ALL ITEMS ASSOCIATED SHALL BE PAID FOR UNDER ITEM C-102, COMPLIANCE WITH POLLUTION, EROSION AND SILTATION CONTROL UNLESS OTHERWISE NOTED.
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- SEE SHEET CE 501 FOR ALL BMP DETAILS.



A1 KEYED NOTES
SCALE: NOT TO SCALE

APPROVED: _____
DATE: 1/27/2023
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

APPROVED DATE: 01-27-2023

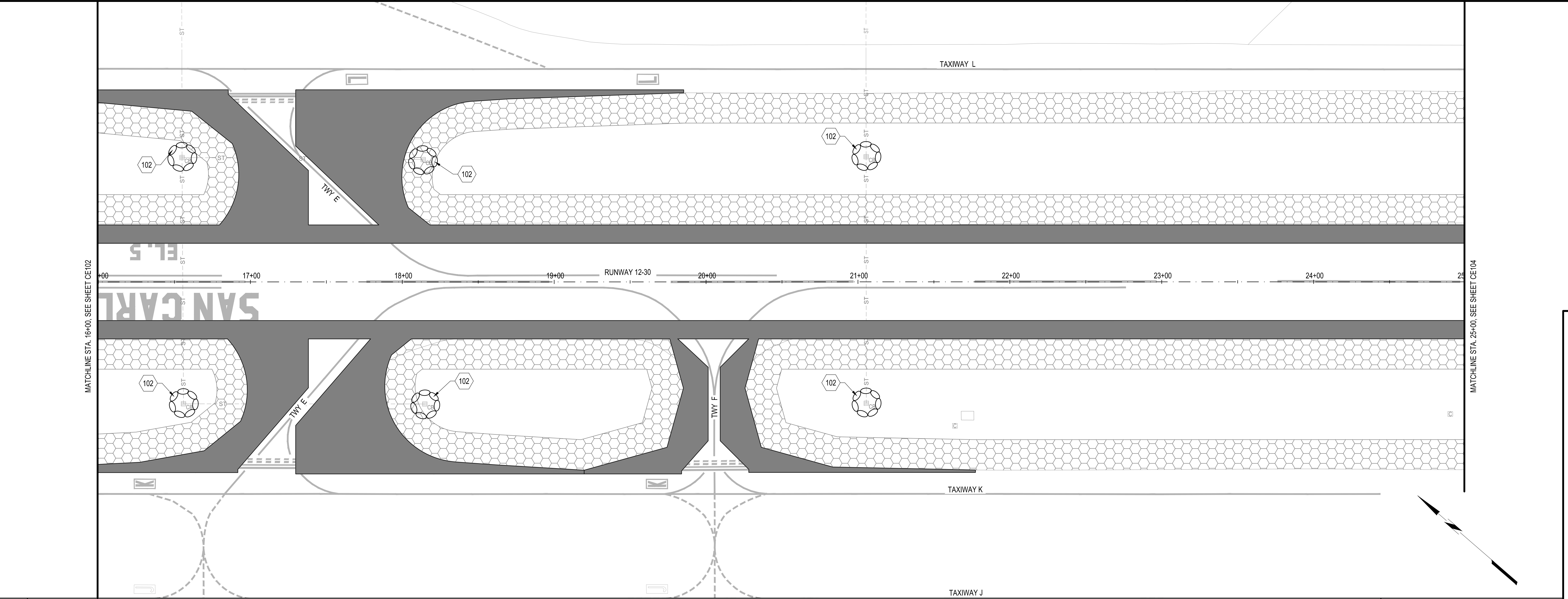
TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024

DESIGNED BY: E.A. (CAS)	SOIL EROSION & SEDIMENT CONTROL PLAN	SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

CE102
SHEET 13 OF 53



B1

SOIL EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 30'

30

0

30

60 FT.

102. INLET PROTECTION (TYP.), ITEM C-102, SEE DETAIL A3/CE501

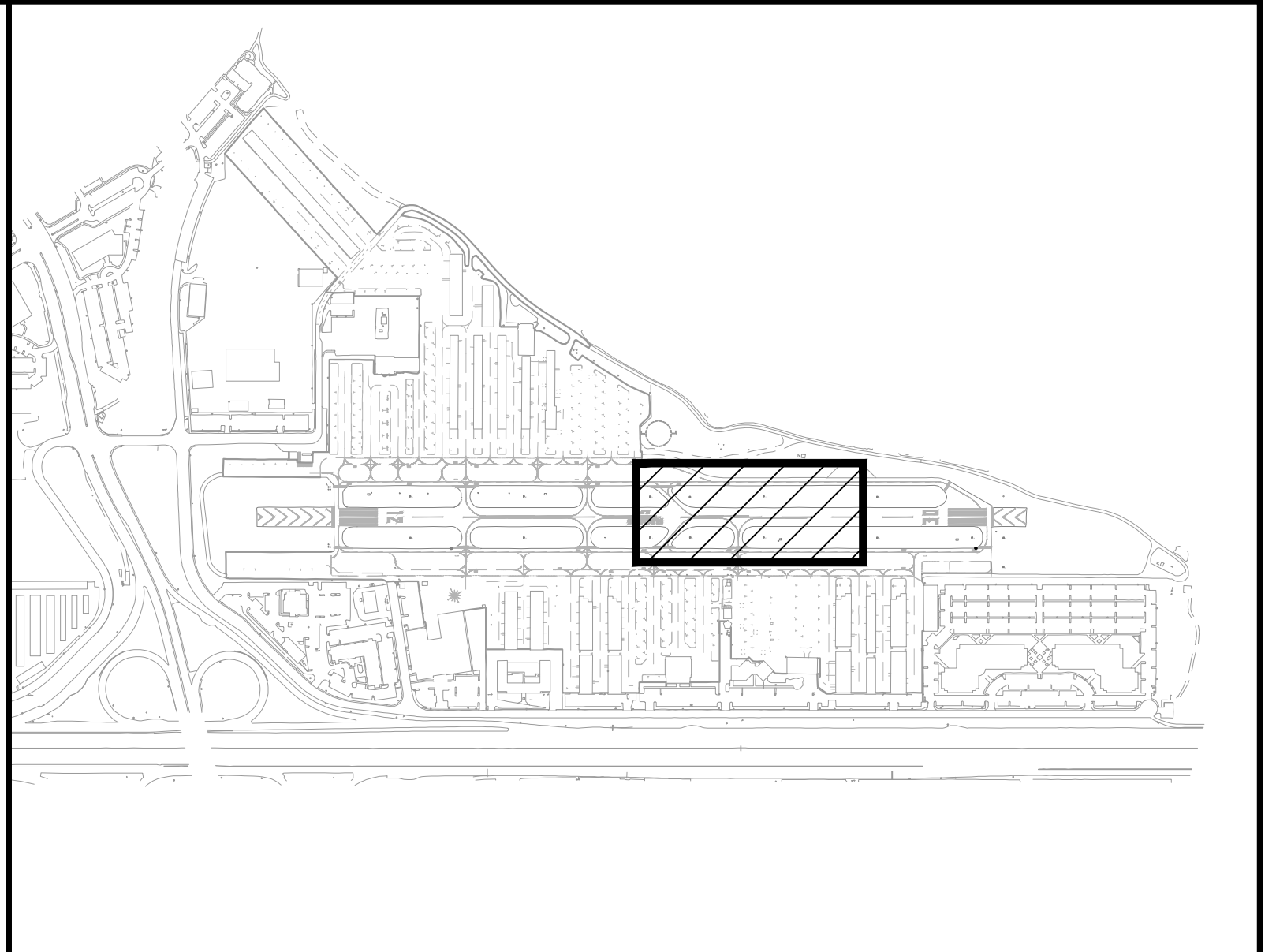
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PROPOSED INLET PROTECTION

PROPOSED PAVEMENT

PROPOSED RSA SOIL STABILIZATION

- GENERAL NOTES:
- ALL STATE AND LOCAL EROSION SEDIMENT CONTROL REQUIREMENTS SHALL BE MET. ALL ITEMS ASSOCIATED SHALL BE PAID FOR UNDER ITEM C-102, COMPLIANCE WITH POLLUTION, EROSION AND SILTATION CONTROL UNLESS OTHERWISE NOTED.
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 - SEE SHEET CE 501 FOR ALL BMP DETAILS.



A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

LEGEND

SCALE: NOT TO SCALE

A3

GENERAL NOTES

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE

APPROVED:
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

APPROVED DATE: 01-27-2023

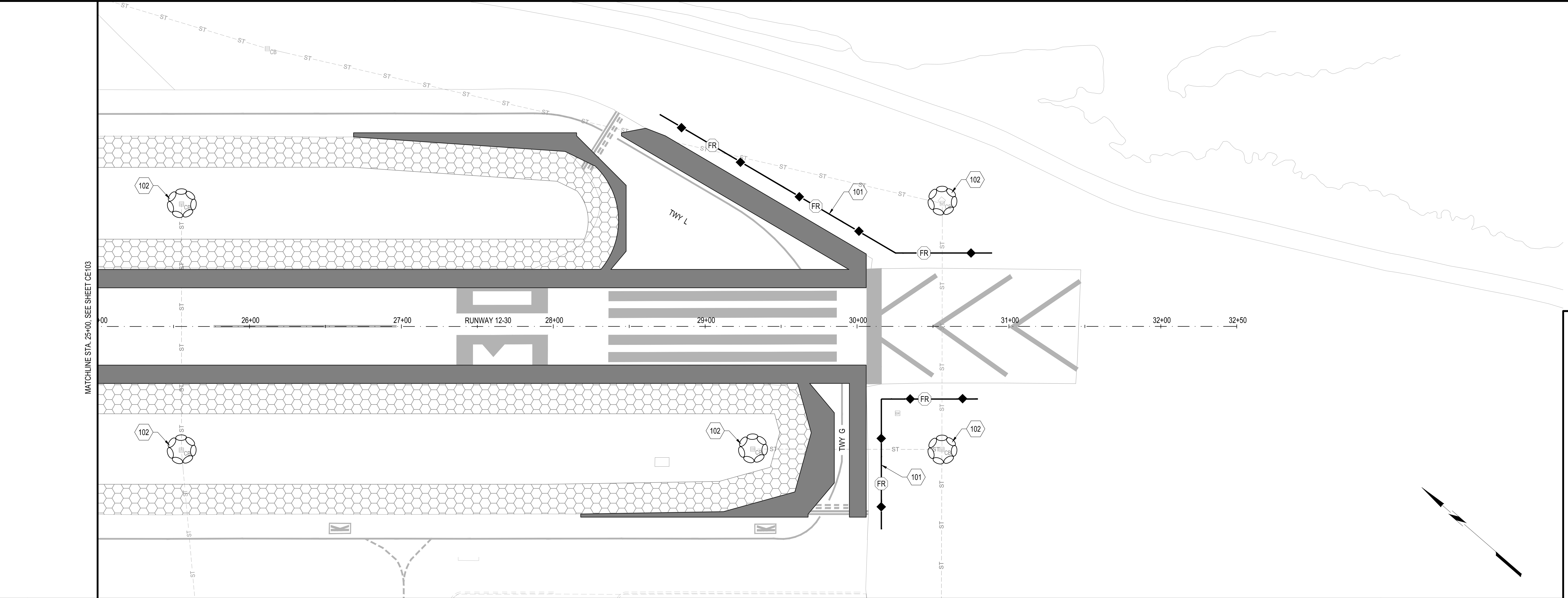
TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024

DESIGNED BY: E.A. (C&S)	SOIL EROSION & SEDIMENT CONTROL PLAN	SCALE: 1" = 30'
CHECKED BY: D.M. (C&S)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (C&S)	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE	FILE NO.: 1/5077

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

CE103
SHEET 14 OF 53

FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TTY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\116033009_CE-SERIES.DWG (CE103)



B1

SOIL EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 30'

30' 0 30 60 FT.

101. FIBER ROLL (TYP.), ITEM C-102, SEE DETAIL A1/CE501
102. INLET PROTECTION (TYP.), ITEM C-102, SEE DETAIL A3/CE501

XX

PROPOSED INLET PROTECTION

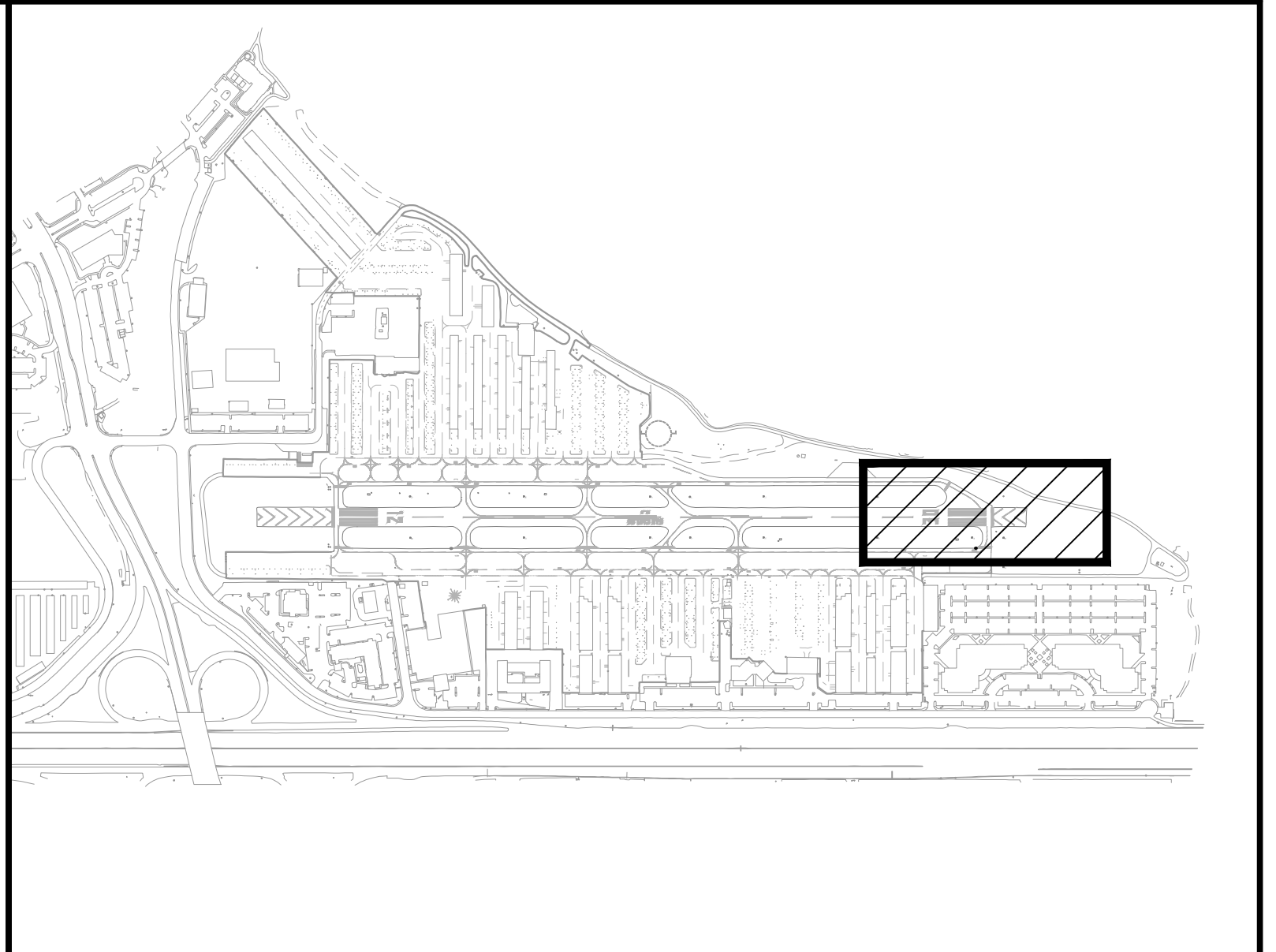
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PROPOSED FIBER ROLL

PROPOSED PAVEMENT

PROPOSED RSA SOIL STABILIZATION

- GENERAL NOTES:
1. ALL STATE AND LOCAL EROSION SEDIMENT CONTROL REQUIREMENTS SHALL BE MET. ALL ITEMS ASSOCIATED SHALL BE PAID FOR UNDER ITEM C-102, COMPLIANCE WITH POLLUTION, EROSION AND SILTATION CONTROL UNLESS OTHERWISE NOTED.
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4. SEE SHEET CE 501 FOR ALL BMP DETAILS.



A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

LEGEND

SCALE: NOT TO SCALE

A3

GENERAL NOTES

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER

ANN MADER STILLMAN

C 47882

EXPIRES 12/31/23

CIVIL

STATE OF CALIFORNIA

APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.

7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

C&S

COMPANIES

APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

C&S ENGINEERS, INC.

R.C.E. # C063590

EXPIRES 09-30-2024

REGISTERED PROFESSIONAL ENGINEER

TEDDY D. RAMIL

No. C 063590

Exp. 09/30/2024

CIVIL

STATE OF CALIFORNIA

COUNTY OF SAN MATEO

PUBLIC WORKS

DESIGNED BY: E.A. (CAS)	SOIL EROSION & SEDIMENT CONTROL PLAN		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION	DATE	SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

CE104

SHEET 15 OF 53

FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TTY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\16003009_CE-SERIES.DWG (CE104)

C1

NOT USED
SCALE: NOT TO SCALE

C2

NOT USED
SCALE: NOT TO SCALE

C3

NOT USED
SCALE: NOT TO SCALE

C4

NOT USED
SCALE: NOT TO SCALE

B1

NOT USED
SCALE: NOT TO SCALE

B2

NOT USED
SCALE: NOT TO SCALE

B3

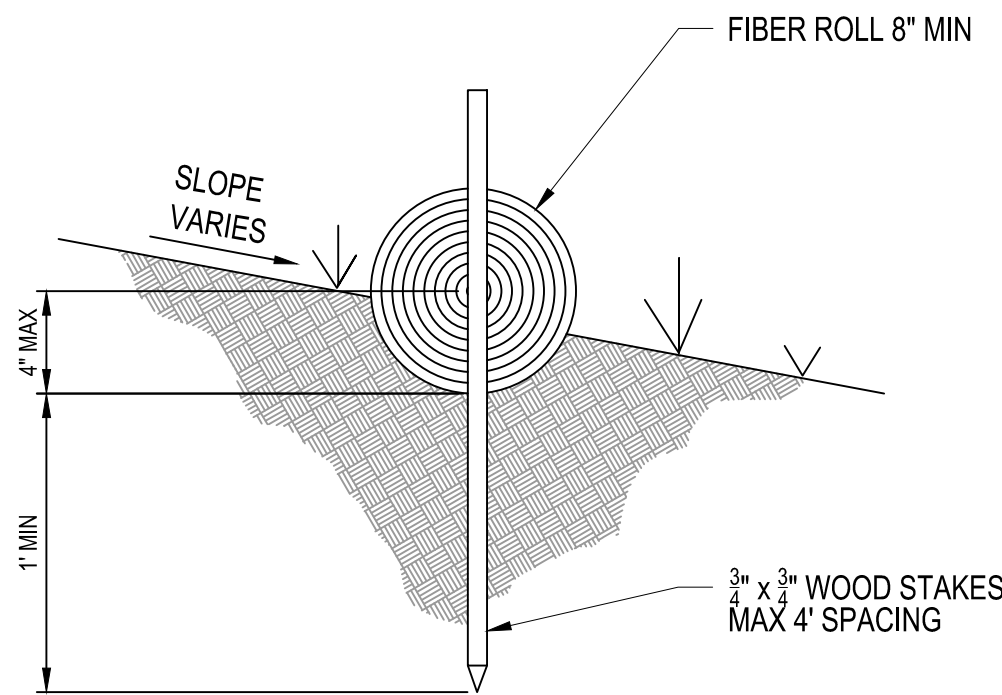
NOT USED
SCALE: NOT TO SCALE

B4

NOT USED
SCALE: NOT TO SCALE

A1

FIBER ROLL DETAIL
SCALE: NOT TO SCALE

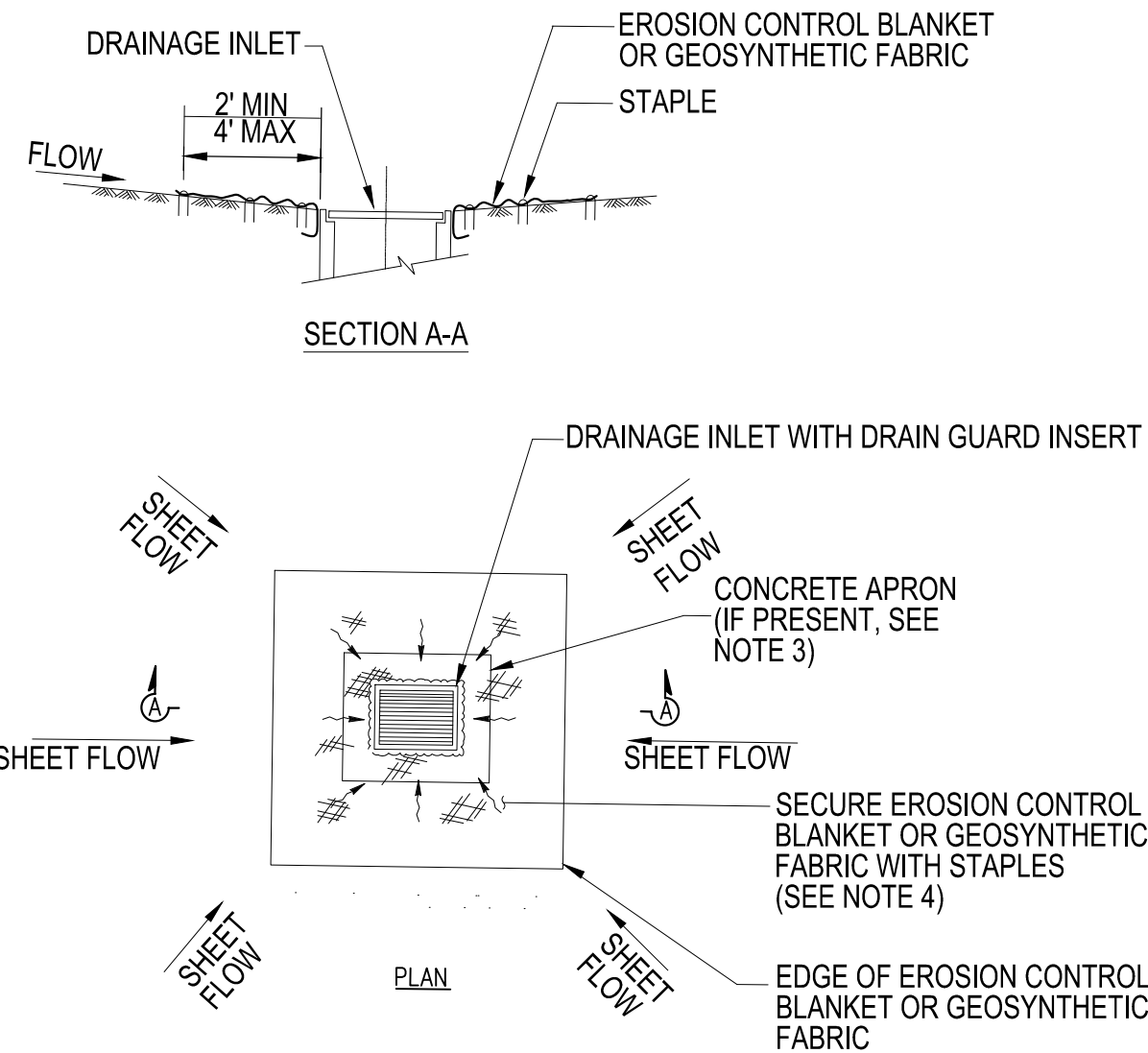


A2

NOT USED
SCALE: NOT TO SCALE

A3

TEMPORARY INLET PROTECTION
SCALE: NOT TO SCALE



NOTES:

1. ADJACENT TO DRAINAGE INLET PROTECTION.
2. DIMENSIONS MAY VARY TO FIT FIELD CONDITIONS.
3. POSITION EROSION CONTROL BLANKET OR GEOSYNTHETIC FABRIC AT EDGE OF CONCRETE APRON AND SECURE IN TRENCH. (ONLY IF CONCRETE APRON EXISTS)
4. EROSION CONTROL BLANKET OR GEOSYNTHETIC FABRIC IS NOT REQUIRED IF THE AREA ADJACENT TO THE DRAINAGE INLET IS VEGETATED OR PAVED.



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com



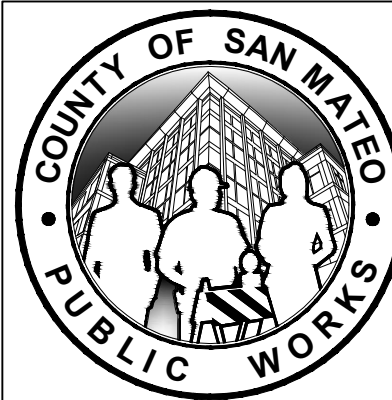
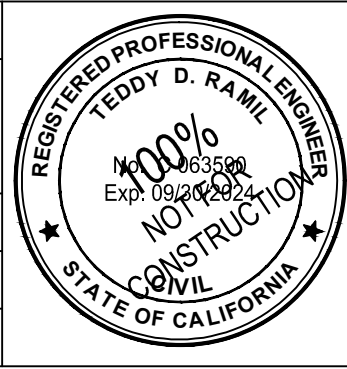
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

C&S ENGINEERS, INC.

R.C.E. # C063590

EXPIRES 09-30-2024



DESIGNED BY: E.A. (CAS)

CHECKED BY: D.M. (CAS)

DRAWN BY: E.A. (CAS)

SOIL EROSION AND SEDIMENT CONTROL DETAILS

RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION

ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

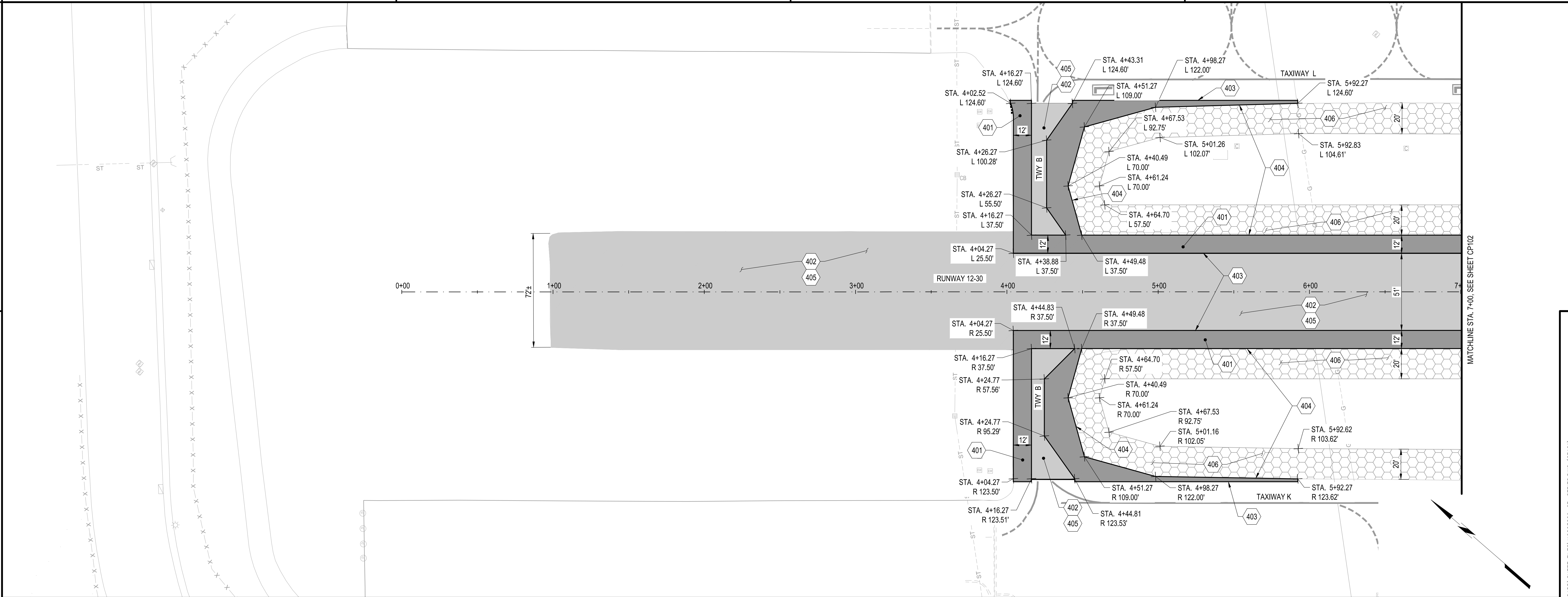
555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



CE501
SHEET 16 OF 53

FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TXY CONNECTOR REHAB DESIGN (CADD)\SHEET FILES\116003009_CE-DETAILS.DWG (CE-501)



B1 IMPROVEMENT PLAN
SCALE: 1" = 30'

401. PROPOSED PAVEMENT STRUCTURAL SECTION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501.
402. PROPOSED PAVEMENT SURFACE SEAL COAT, ITEM P-608.
403. CONFORM TO EXISTING PAVEMENT. SEE KEYING DETAIL B2/CP501.
404. SEE EDGE OF RSA SOIL STABILIZATION DETAIL A3/CP501.
405. CRACK SEAL EXISTING PAVEMENT, SEE DETAIL B1/CP501
406. RSA SOIL STABILIZATION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501

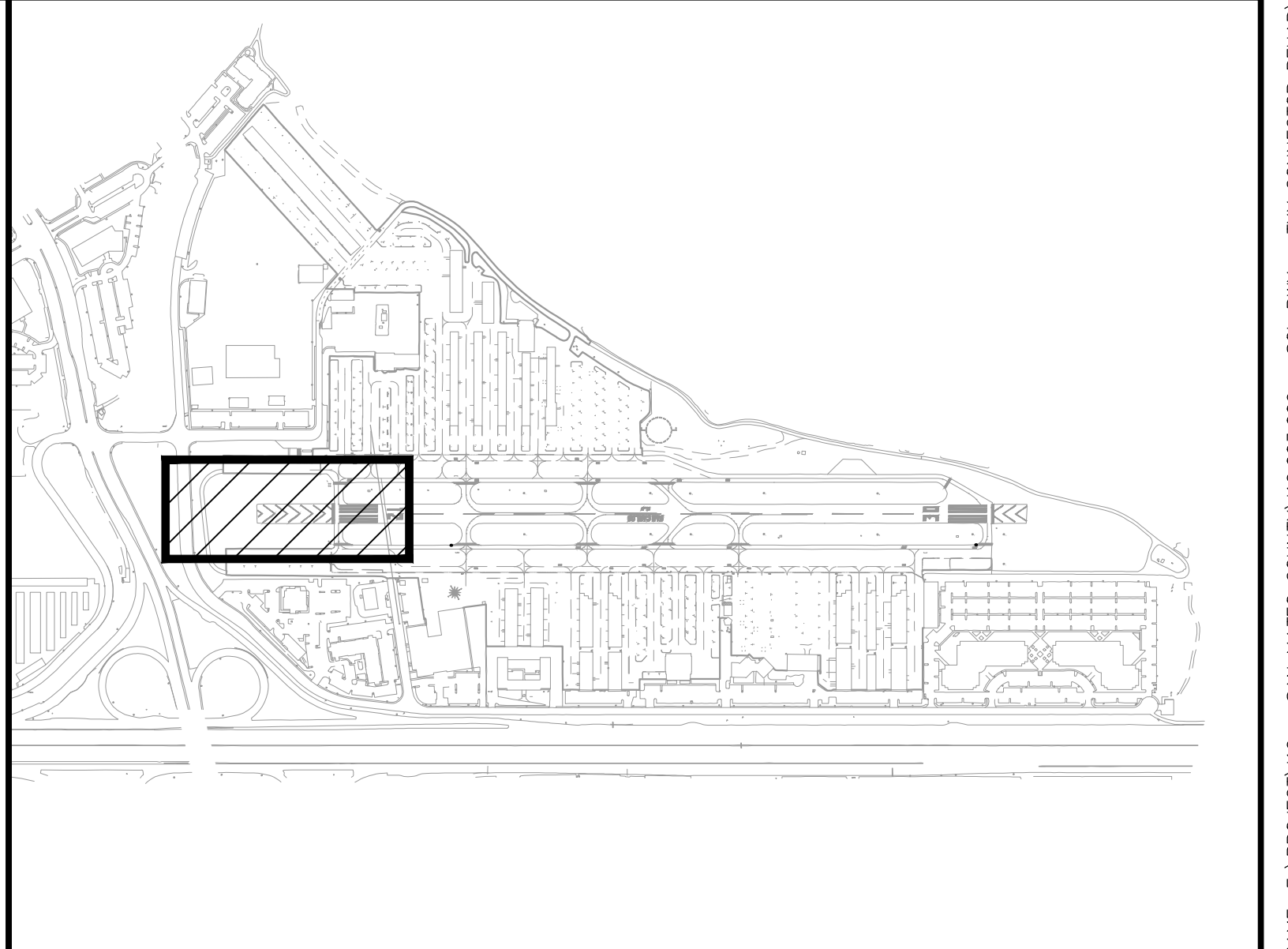
A2 LEGEND
SCALE: NOT TO SCALE

PROPOSED STRUCTURAL PAVEMENT SECTION

PROPOSED PAVEMENT SURFACE SEAL COAT

PROPOSED RSA SOIL STABILIZATION

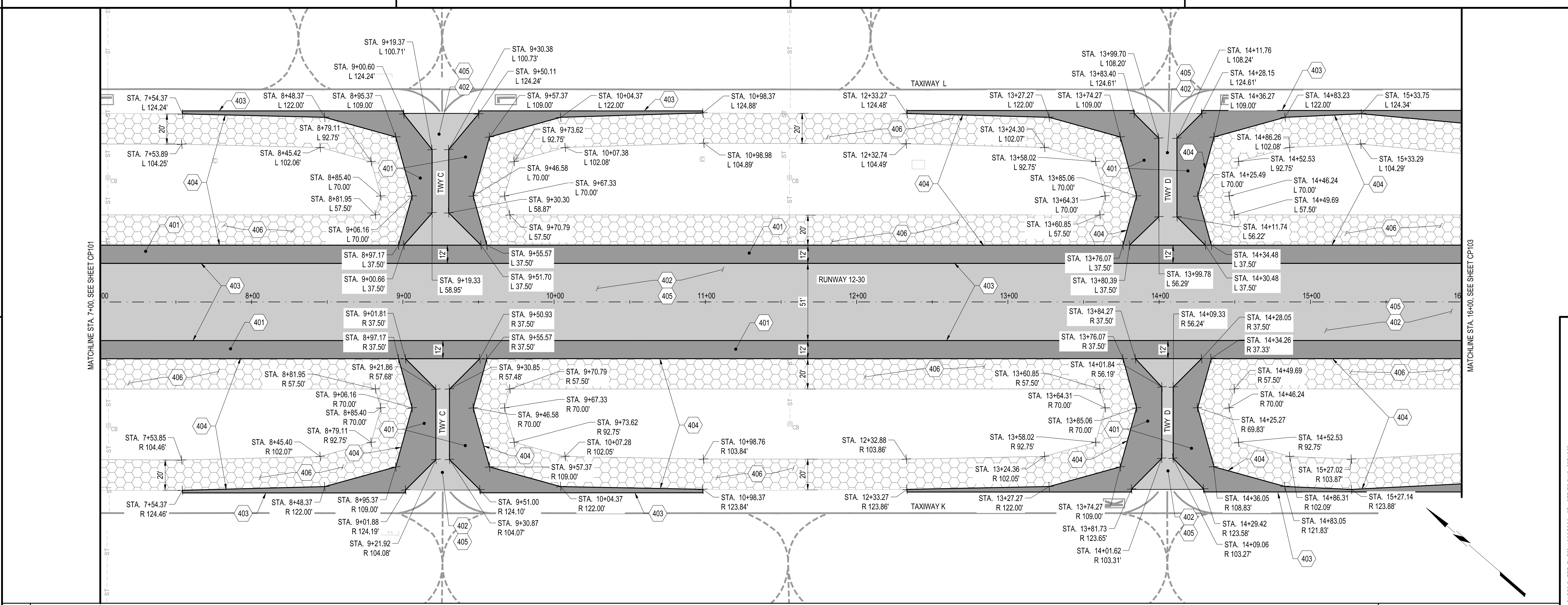
A3 NOT USED
SCALE: NOT TO SCALE



A1 KEYED NOTES SCALE: NOT TO SCALE

A4 KEY MAP SCALE: NOT TO SCALE

<p>APPROVED: DATE: 1/27/2023</p> <p>ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023</p>	<p>C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com</p>	<p>APPROVED DATE: 01-27-2023</p> <p>TEDDY D. RAMIL C&S ENGINEERS, INC. R.C.E. # C063590 EXPIRES 09-30-2024</p>	<table><tr><td>DESIGNED BY: E.A. (C&S)</td><td>IMPROVEMENT PLAN</td><td>SCALE: 1" = 30'</td></tr><tr><td>CHECKED BY: D.M. (C&S)</td><td>RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION</td><td>DATE: JANUARY 2023</td></tr><tr><td>DRAWN BY: E.A. (C&S)</td><td></td><td>FILE NO.: 115077</td></tr><tr><td>ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS</td><td>555 COUNTY CENTER, 5th FLOOR</td><td></td></tr><tr><td>SAN MATEO COUNTY</td><td>REDWOOD CITY, CALIFORNIA 94063</td><td></td></tr></table> <p>FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES</p> <p>0 1 2 3 4</p> <p>CP101 SHEET 17 OF 53</p>	DESIGNED BY: E.A. (C&S)	IMPROVEMENT PLAN	SCALE: 1" = 30'	CHECKED BY: D.M. (C&S)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023	DRAWN BY: E.A. (C&S)		FILE NO.: 115077	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
DESIGNED BY: E.A. (C&S)	IMPROVEMENT PLAN	SCALE: 1" = 30'																
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ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR																	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063																	



B1 IMPROVEMENT PLAN
SCALE: 1" = 30'

401. PROPOSED PAVEMENT STRUCTURAL SECTION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501.
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406. RSA SOIL STABILIZATION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501

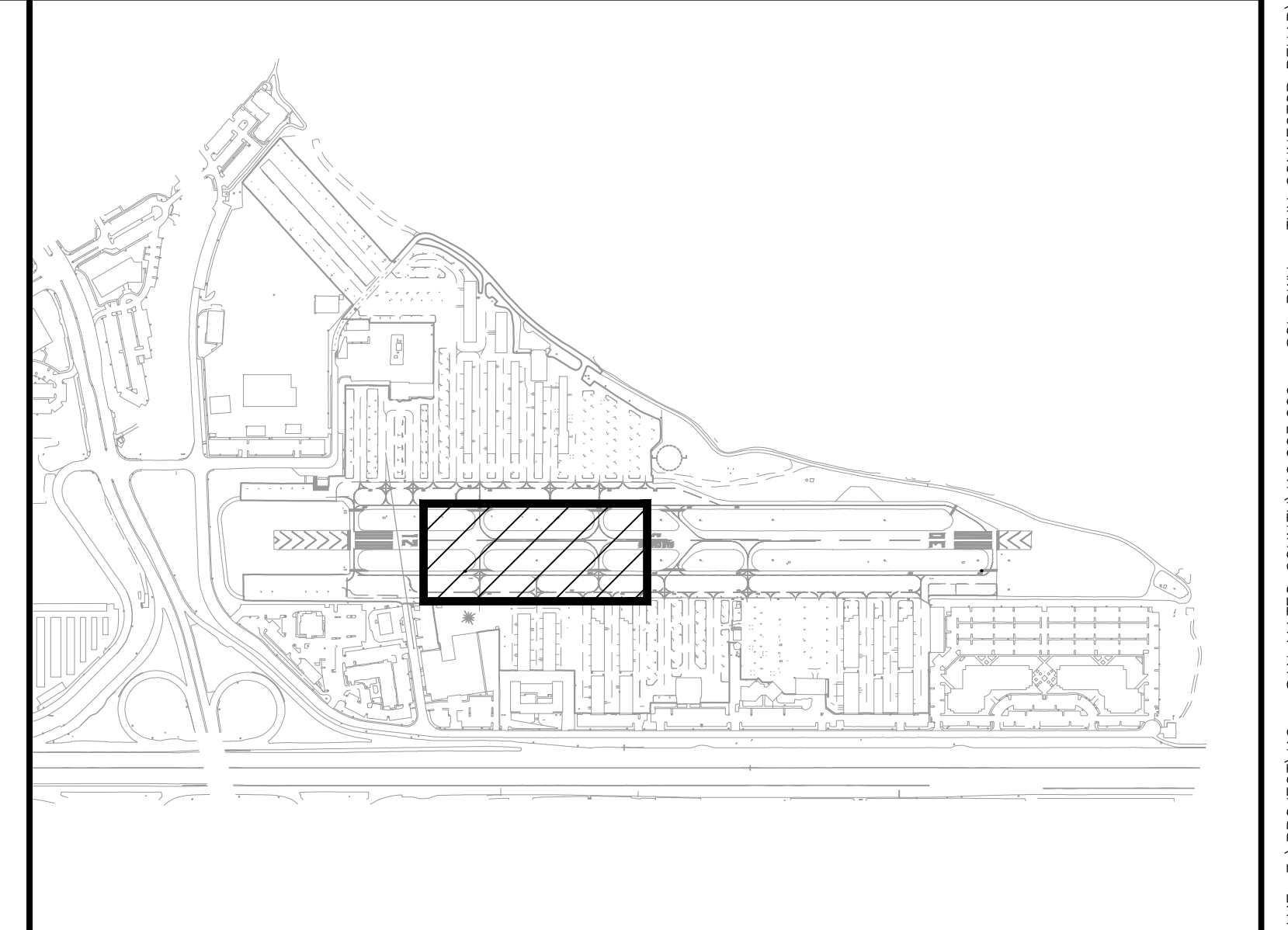
A2 LEGEND
SCALE: NOT TO SCALE

PROPOSED STRUCTURAL PAVEMENT SECTION

PROPOSED PAVEMENT SURFACE SEAL COAT

PROPOSED RSA SOIL STABILIZATION

A3 NOT USED
SCALE: NOT TO SCALE



A1 KEYED NOTES SCALE: NOT TO SCALE

A2 LEGEND SCALE: NOT TO SCALE

A3 NOT USED SCALE: NOT TO SCALE

A4 KEY MAP SCALE: NOT TO SCALE

APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

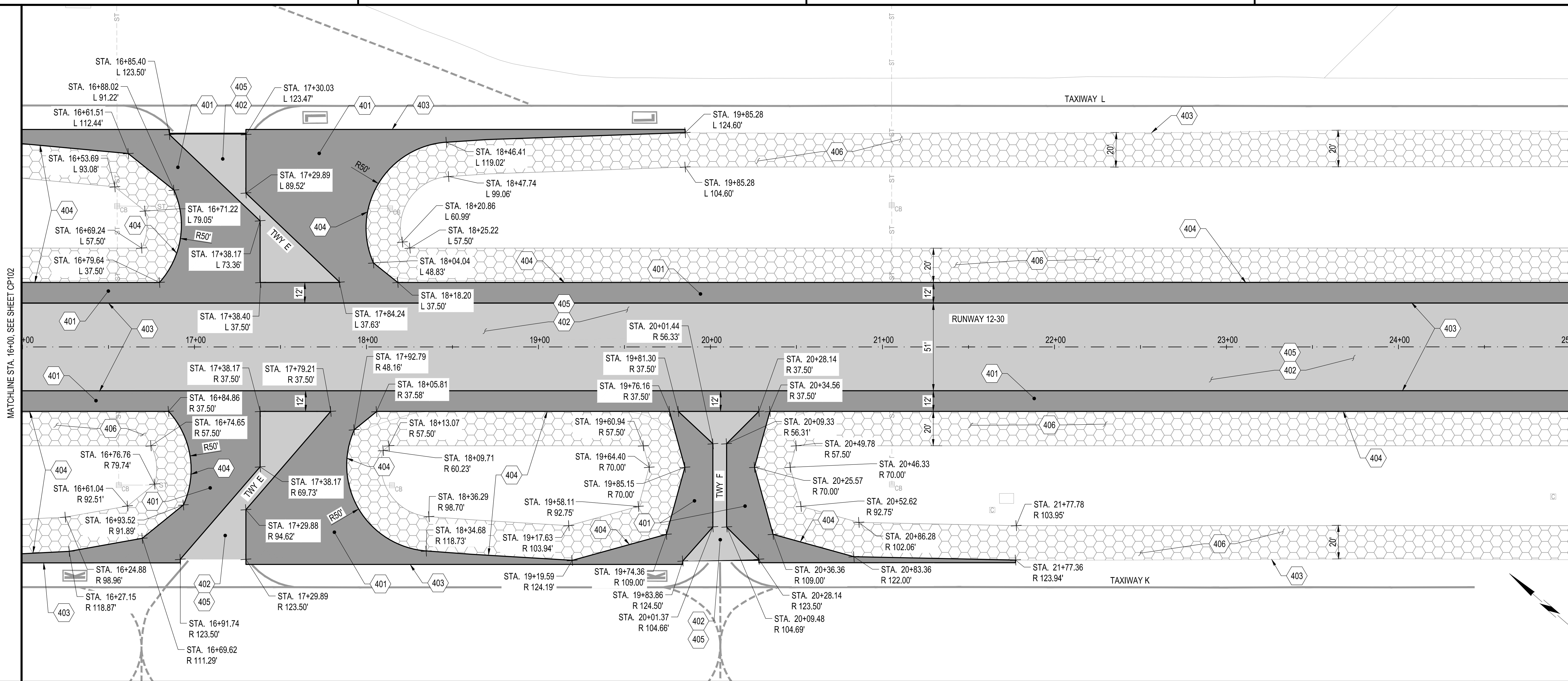
C&S ENGINEERS, INC.

R.C.E. # C063590 EXPIRES 09-30-2024

DESIGNED BY: E.A. (C&S)	IMPROVEMENT PLAN	SCALE: 1" = 30'
CHECKED BY: D.M. (C&S)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (C&S)		FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

CP102
SHEET 18 OF 53





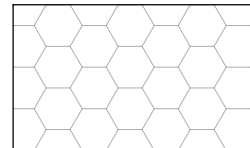
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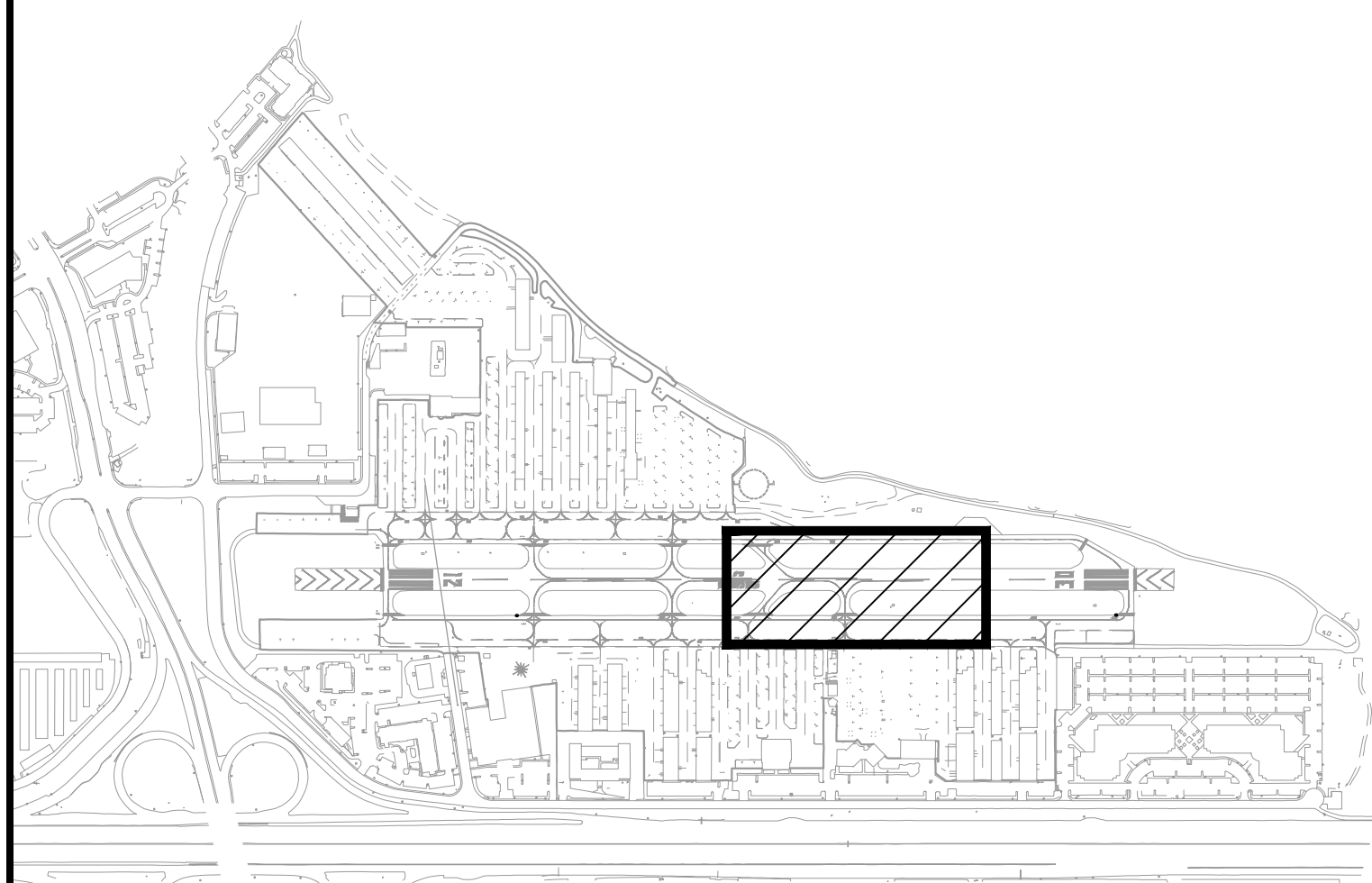
IMPROVEMENT PLAN

SCALE: 1" = 30'

30' 0 30 60FT.

401. PROPOSED PAVEMENT STRUCTURAL SECTION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501.
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406. RSA SOIL STABILIZATION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501

-  PROPOSED STRUCTURAL PAVEMENT SECTION
-  PROPOSED PAVEMENT SURFACE SEAL COAT
-  PROPOSED RSA SOIL STABILIZATION



A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

LEGEND

SCALE: NOT TO SCALE

A3

NOT USED

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

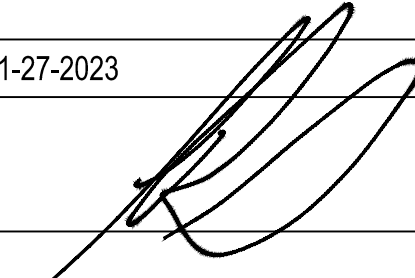
ANN MADER STILLMAN
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

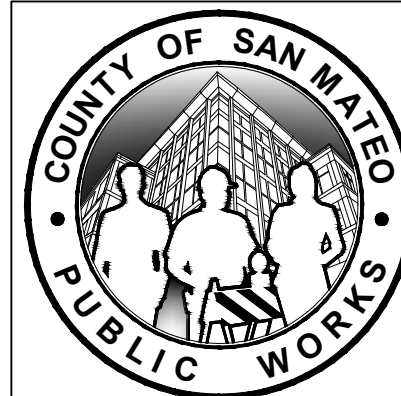
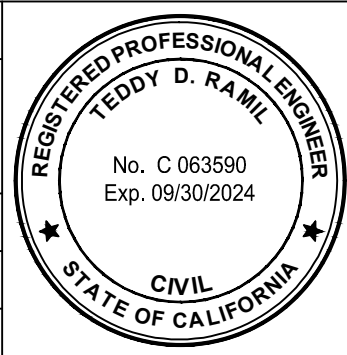
C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com



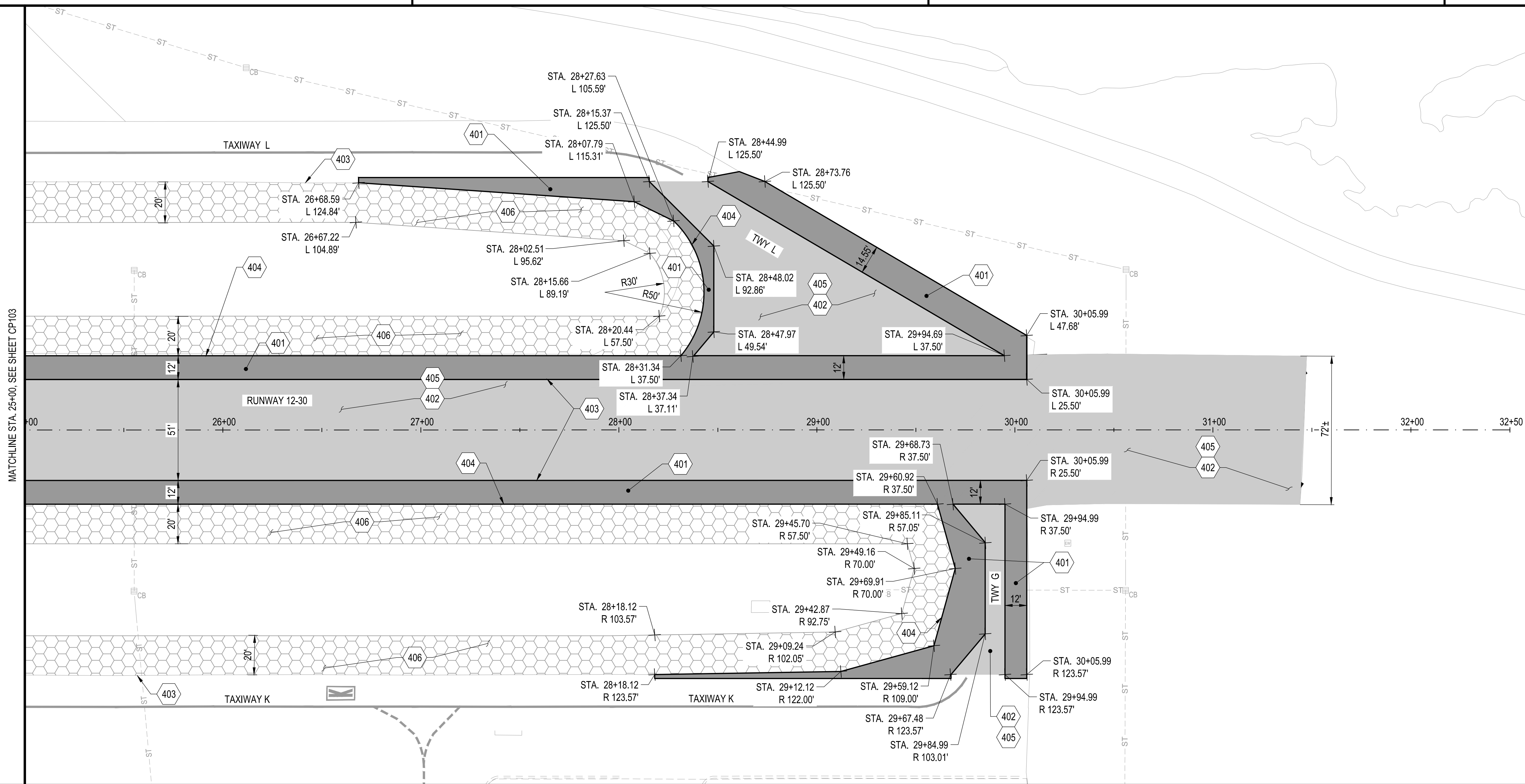
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024



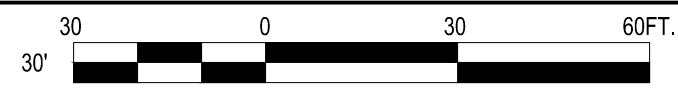


DESIGNED BY: E.A. (C&S)		IMPROVEMENT PLAN		SCALE: 1" = 30'
CHECKED BY: D.M. (C&S)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (C&S)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 1/5077
REVISION		DATE		
		SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		CP103 SHEET 19 OF 53



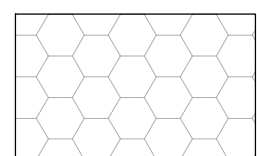


B1 IMPROVEMENT PLAN

SCALE: 1" = 30'



401. PROPOSED PAVEMENT STRUCTURAL SECTION. FOR TYPICAL SECTION, SEE DETAIL A1/CP501.
402. PROPOSED PAVEMENT SURFACE SEAL COAT, ITEM P-608.
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-  PROPOSED STRUCTURAL PAVEMENT SECTION
-  PROPOSED PAVEMENT SURFACE SEAL COAT
-  PROPOSED RSA SOIL STABILIZATION

A1 KEYED NOTES

SCALE: NOT TO SCALE

A2 LEGEND

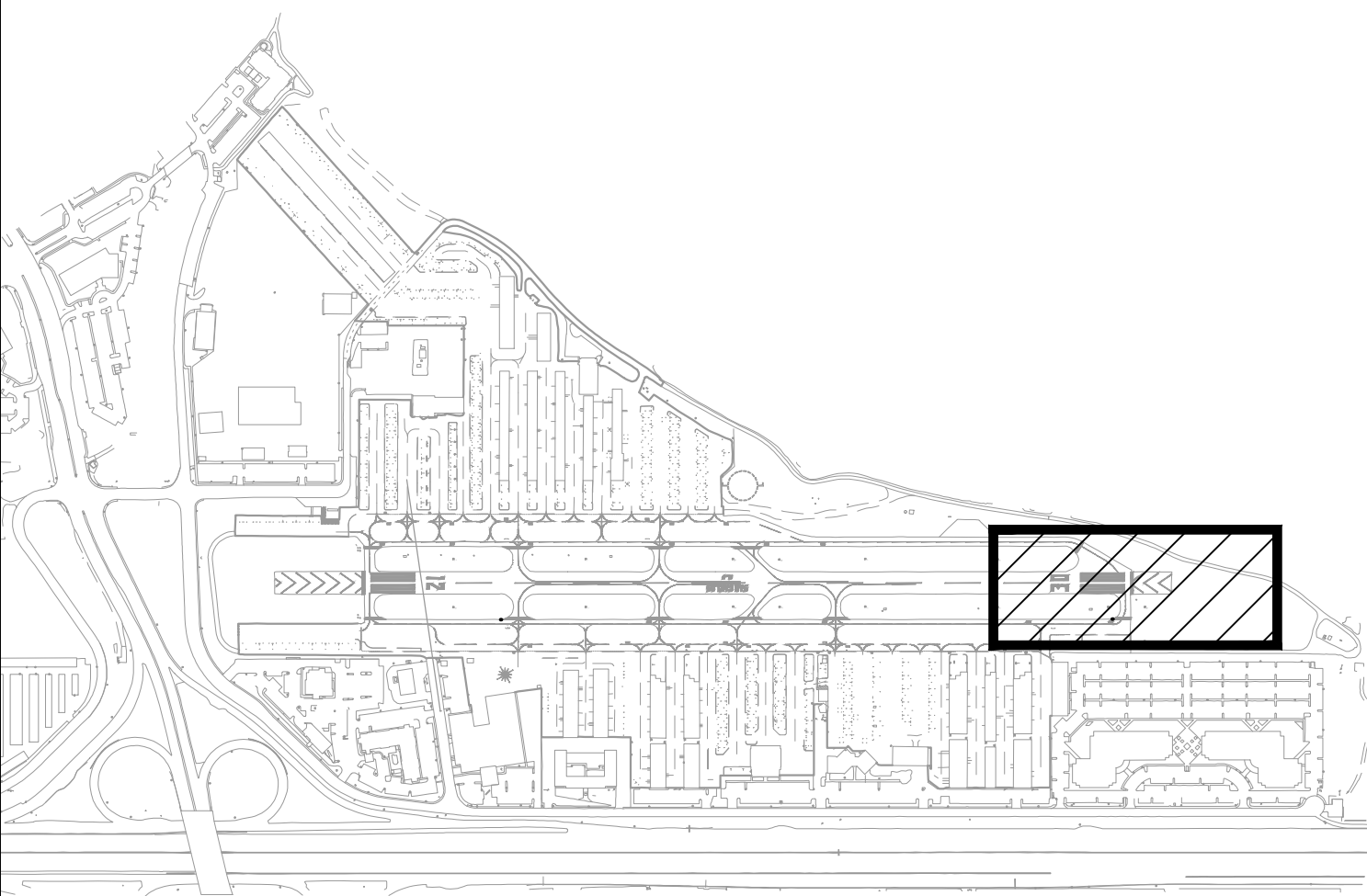
SCALE: NOT TO SCALE

A3 NOT USED

SCALE: NOT TO SCALE

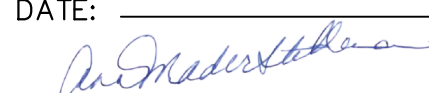
A4 KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023



ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

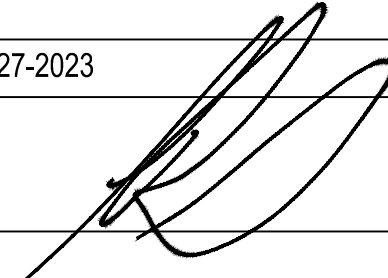


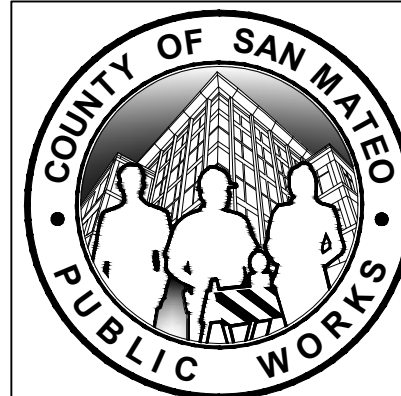
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

C&S ENGINEERS, INC.

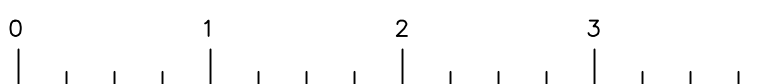
R.C.E. # C063590 EXPIRES 09-30-2024





		DESIGNED BY: E.A. (CAS)	IMPROVEMENT PLAN		SCALE: 1" = 30'
		CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
		DRAWN BY: E.A. (CAS)			FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
		SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE			CP104	
				SHEET 200F 53	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



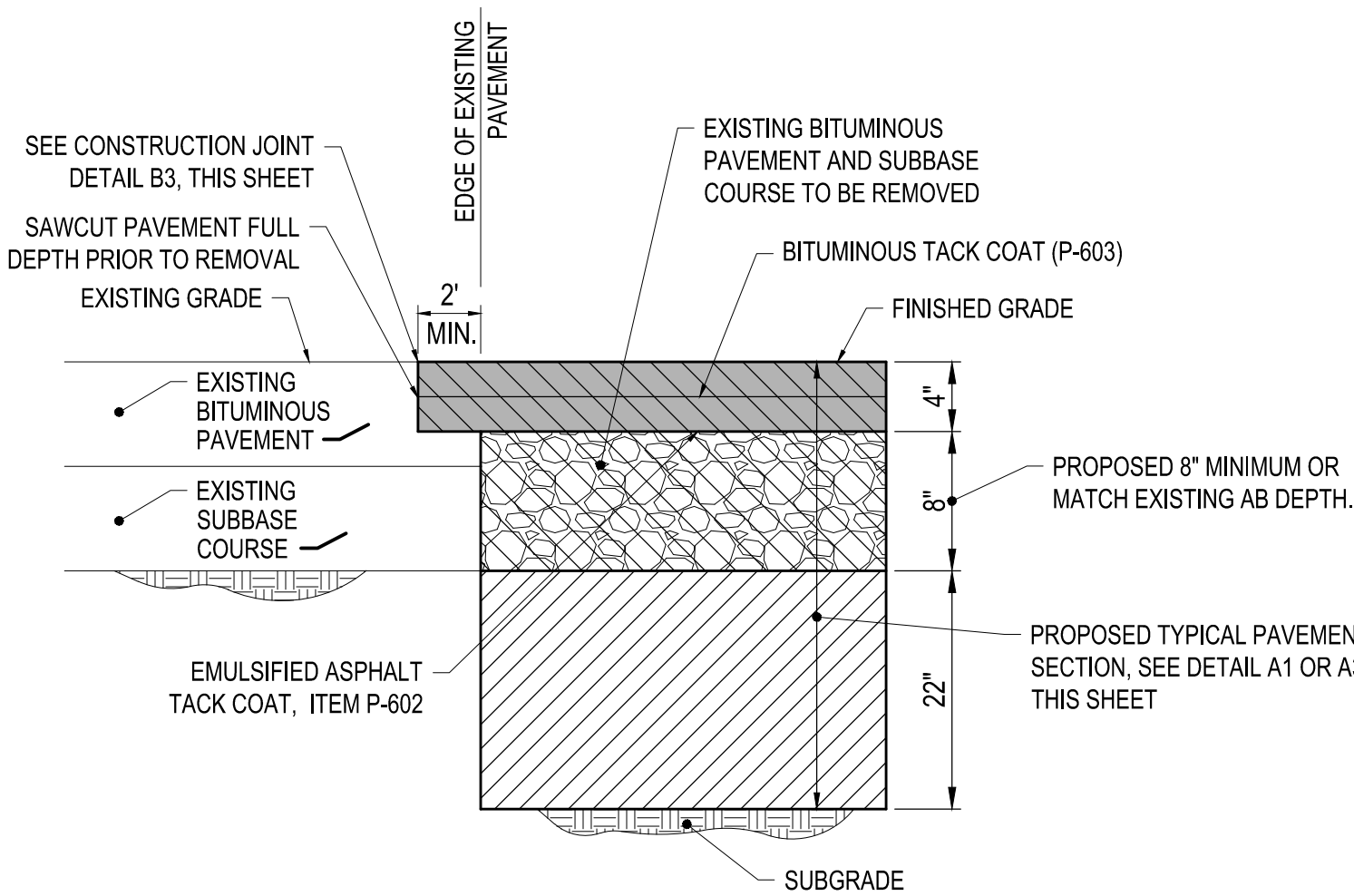
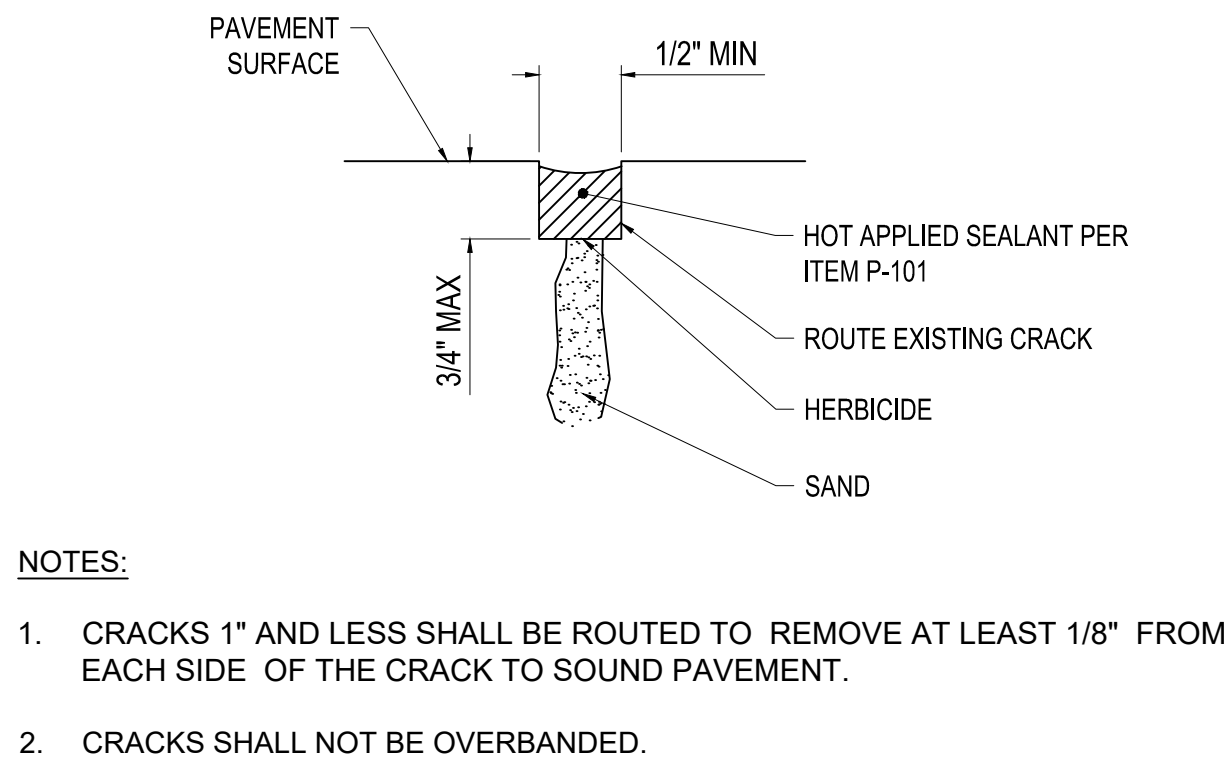
FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL RWY - TRX CONNECTOR REHAB DESIGN (CADD) SHEET FILES\116033009_CP-SERIES.DWG (CP104)

C1 NOT USED
SCALE: NOT TO SCALE

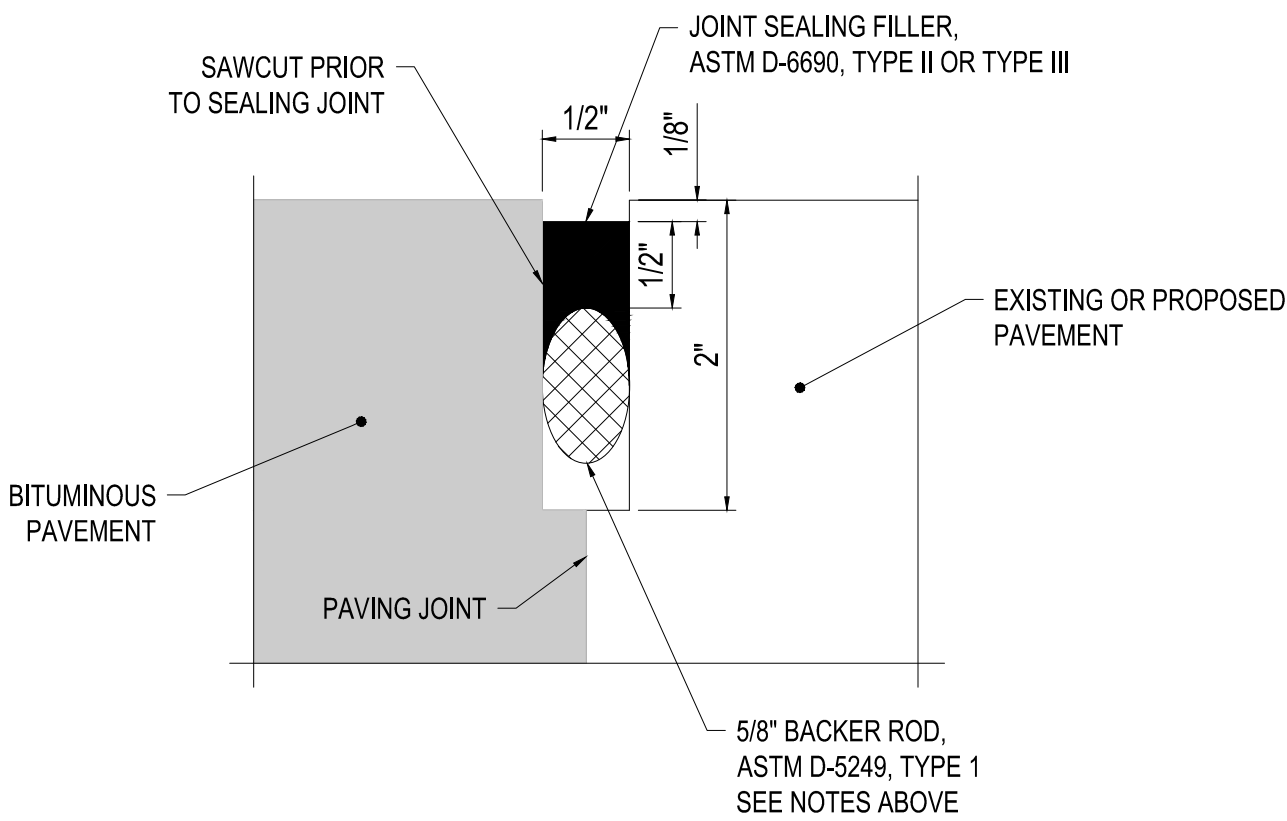
C2 NOT USED
SCALE: NOT TO SCALE

C3 NOT USED
SCALE: NOT TO SCALE

C4 NOT USED
SCALE: NOT TO SCALE



NOTE:
JOINT CONSTRUCTION IS CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO DIRECT PAYMENT SHALL BE MADE.

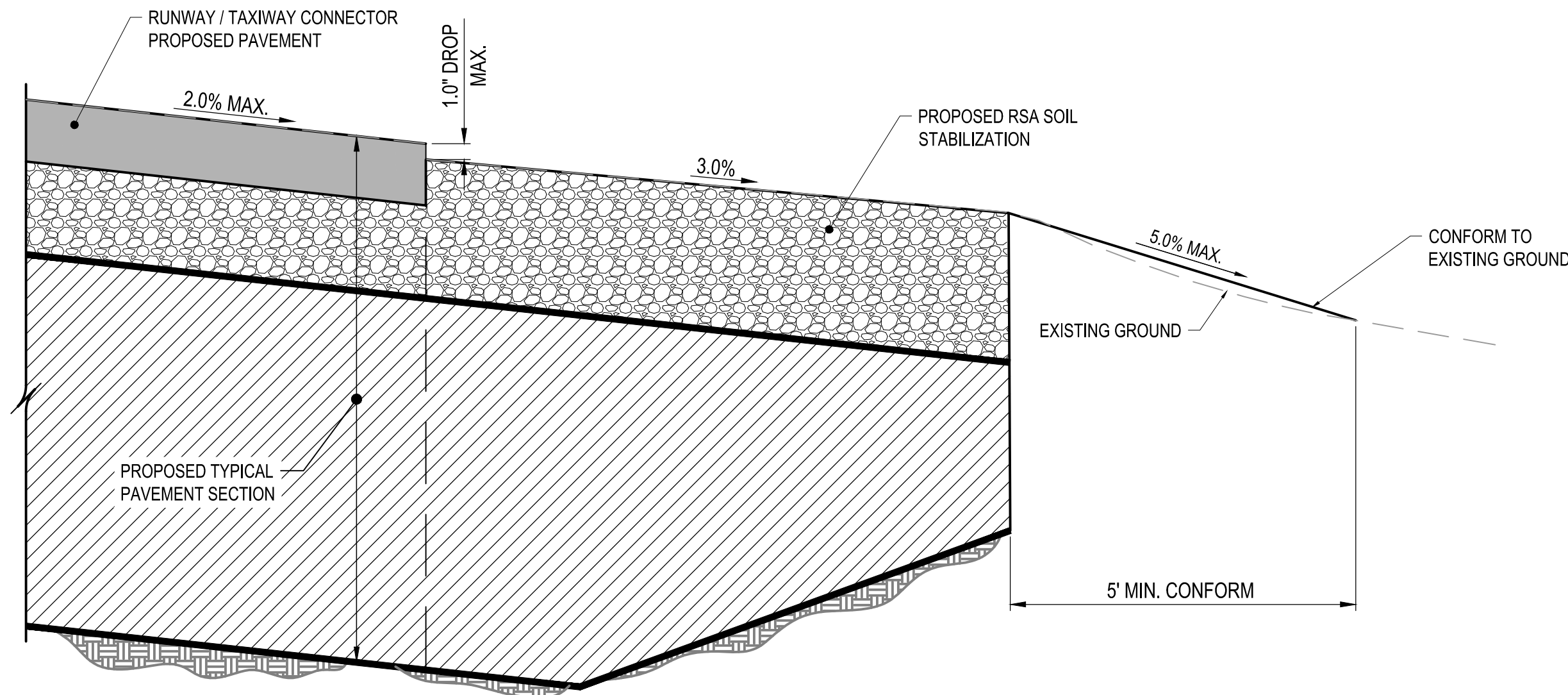
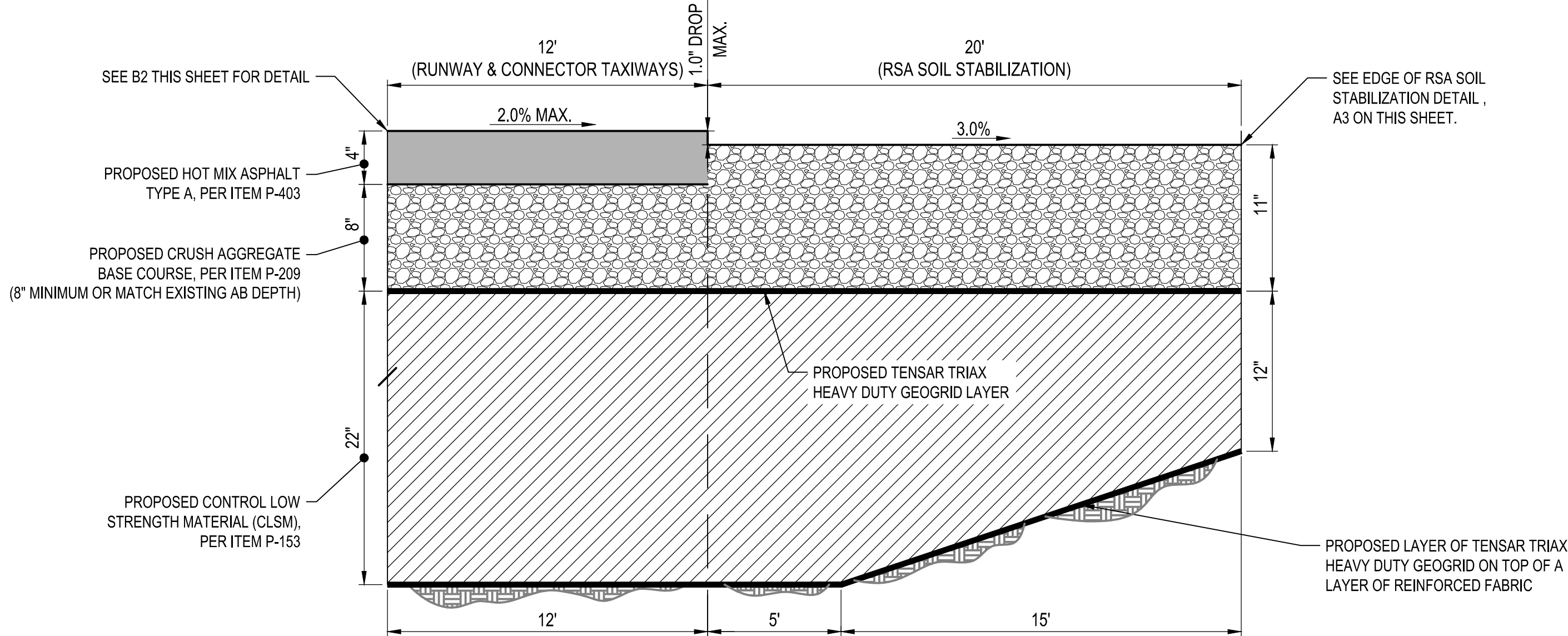


B1 CRACK SEAL DETAIL - 1/4" TO 1"
SCALE: NOT TO SCALE

B2 NEW ASPHALT TO EXISTING ASPHALT KEYING DETAIL
SCALE: NOT TO SCALE

B3 CONSTRUCTION JOINT
SCALE: NOT TO SCALE

B4 NOT USED
SCALE: NOT TO SCALE



A1 TYPICAL PAVEMENT SECTION DETAIL
SCALE: NOT TO SCALE

A3 EDGE OF RSA SOIL STABILIZATION DETAIL
SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

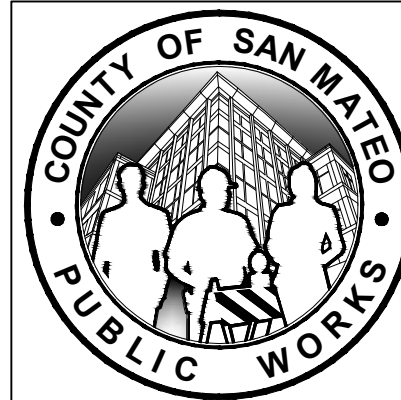
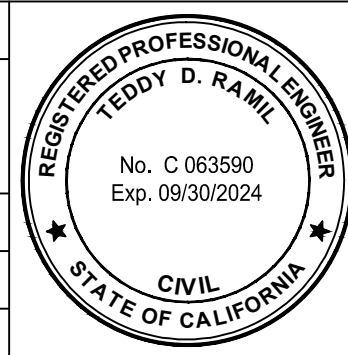


APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

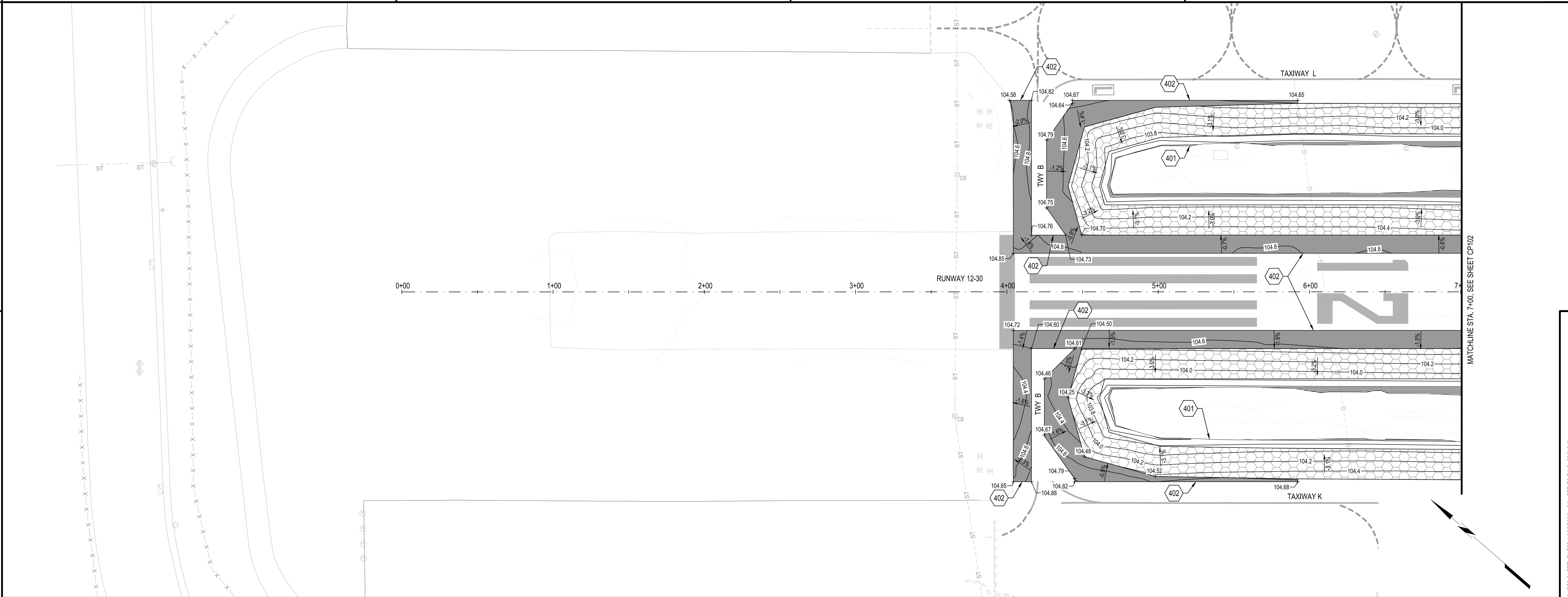
C&S ENGINEERS, INC.

R.C.E. # C063590 EXPIRES 09-30-2024



REVISION		DATE	DESIGNED BY: E.A. (CAS)		CONSTRUCTION PAVING DETAILS		SCALE: 1" = 30'
			CHECKED BY: D.M. (CAS)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
			DRAWN BY: E.A. (CAS)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
					SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
					FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		CP501 SHEET 21 OF 53

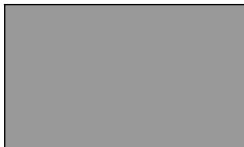
FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TRX CONNECTOR REHAB DESIGN\CADD\116003009_CP-DETAILS.DWG (CP501)

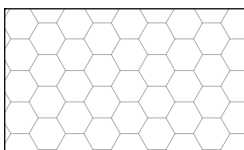


B1 GRADING AND DRAINAGE PLAN
SCALE: 1" = 30'

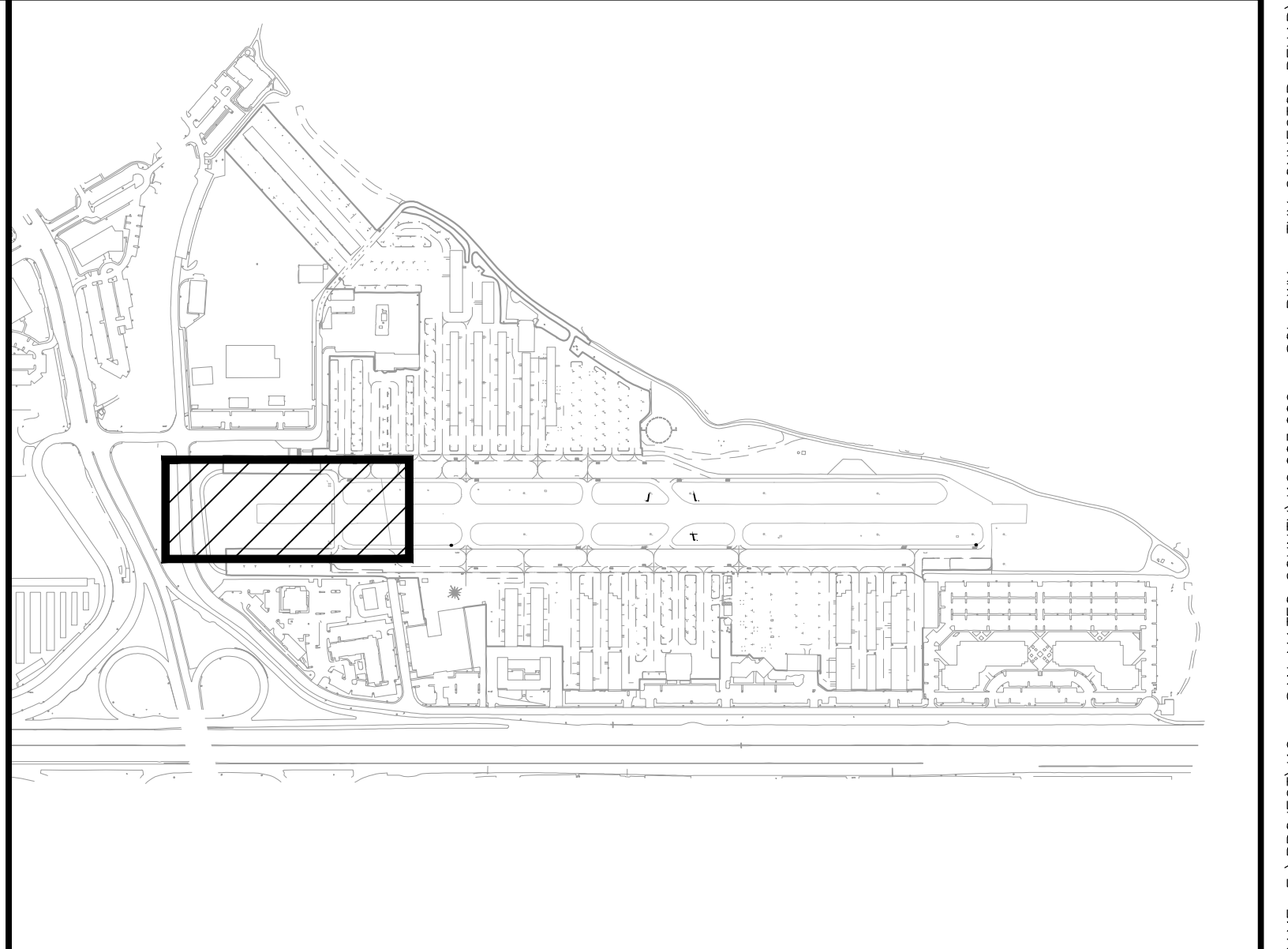
401. PROPOSED GRADING LIMITS. 5% MAXIMUM SLOPE, 5' MINIMUM DISTANCE.

402. MATCH EXISTING GRADE.

 PROPOSED PAVEMENT SECTION





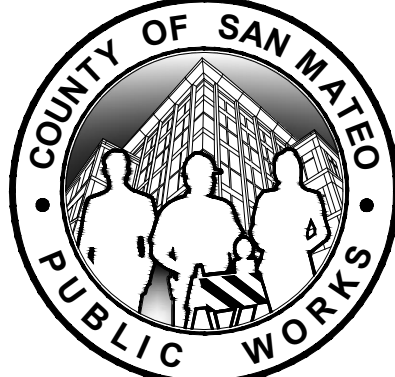
 PROPOSED RSA SOIL STABILIZATION

A3 NOT USED
SCALE: NOT TO SCALE



A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 LEGEND
SCALE: NOT TO SCALE

	APPROVED:		C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com		APPROVED DATE: 01-27-2023			DESIGNED BY: E.A. (CAS)	GRADING AND DRAINAGE PLAN		SCALE: 1" = 30'		
	DATE: 1/27/2023				CHECKED BY: D.M. (CAS)			RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023			
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023					TEDDY D. RAMIL C&S ENGINEERS, INC. R.C.E. # C 063590 EXPIRES 09-30-2024			DRAWN BY: E.A. (CAS)	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	FILE NO.: 1/5077	
								REVISION	DATE			FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	CG101 SHEET 22 OF 53

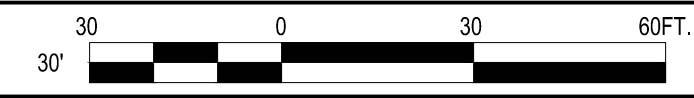
MATCHLINE STA. 7+00, SEE SHEET CP101

MATCHLINE STA. 16+00, SEE SHEET CP103

B1

GRADING AND DRAINAGE PLAN

SCALE: 1" = 30'



401. PROPOSED GRADING LIMITS. 5% MAXIMUM SLOPE, 5' MINIMUM DISTANCE.
402. MATCH EXISTING GRADE.

- PROPOSED PAVEMENT SECTION
- PROPOSED RSA SOIL STABILIZATION

A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

LEGEND

SCALE: NOT TO SCALE

A3

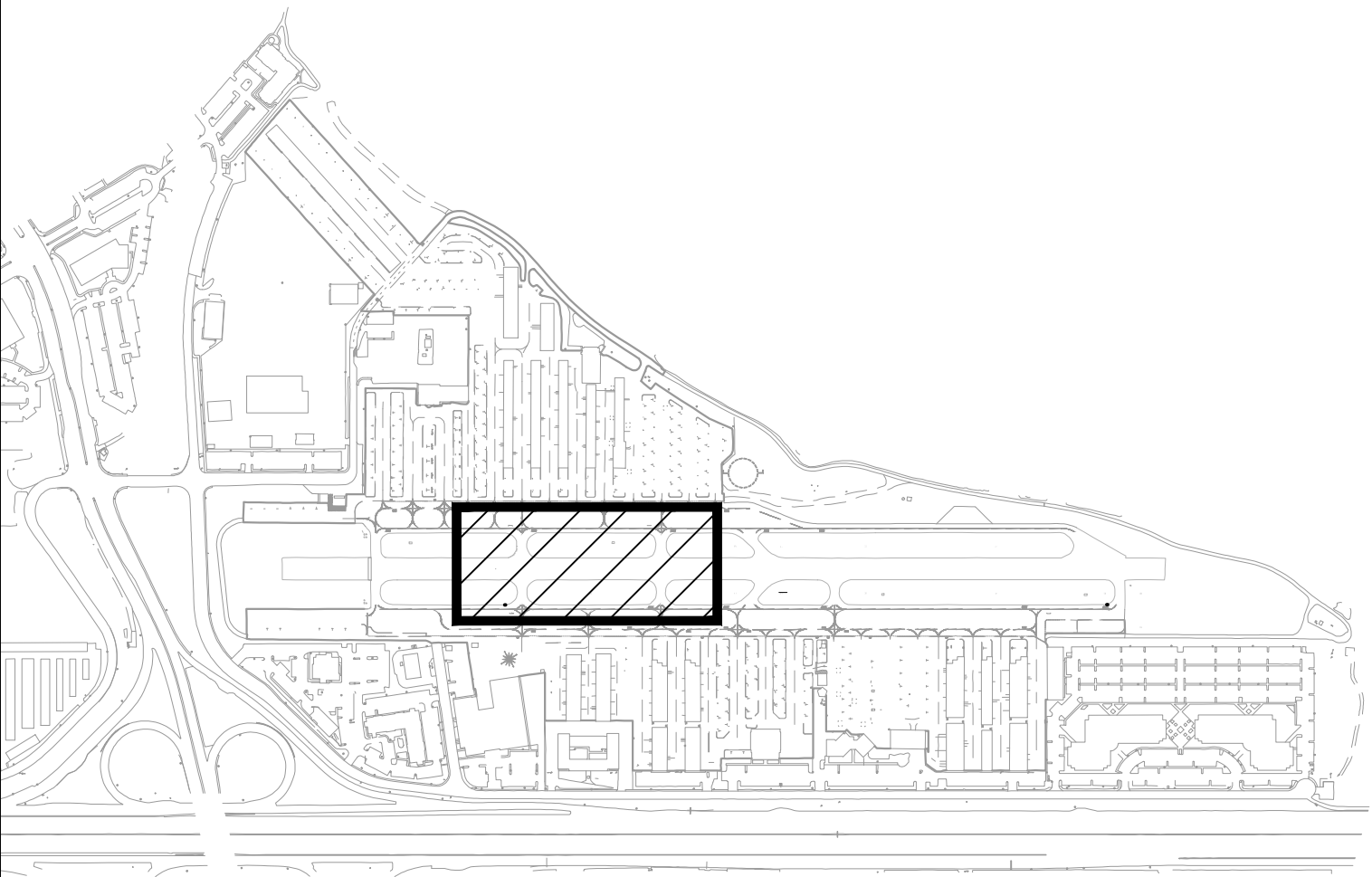
NOT USED

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com



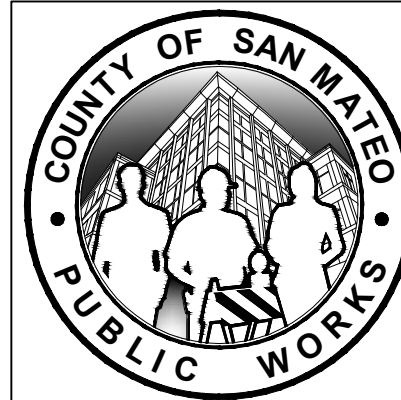
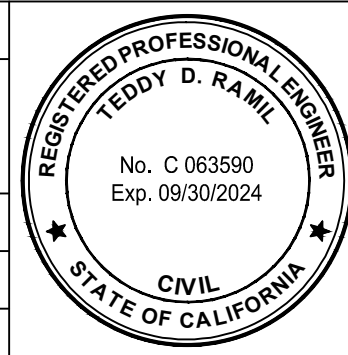
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

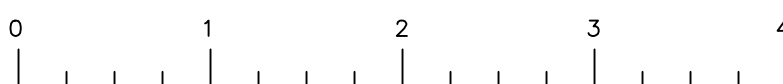
C&S ENGINEERS, INC.

R.C.E. # C 063590

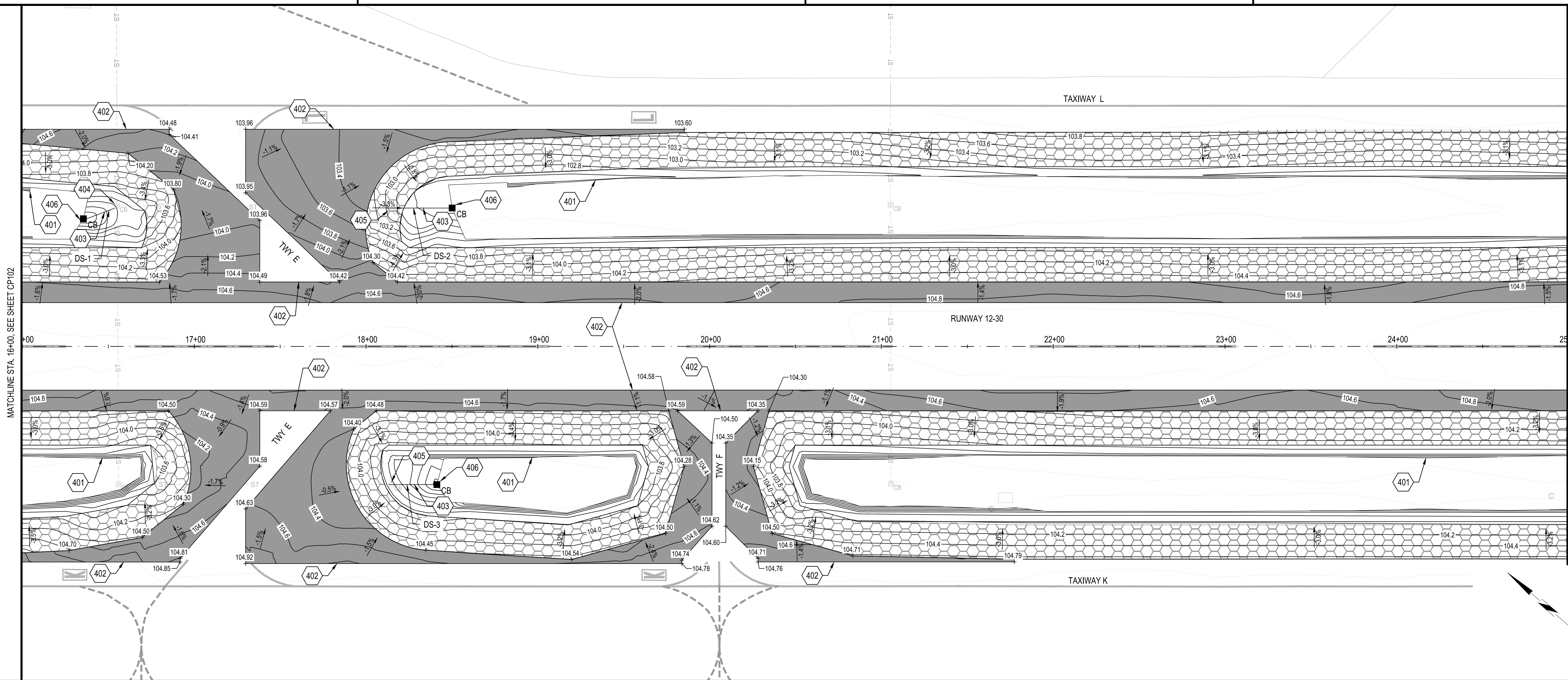
EXPIRES 09-30-2024



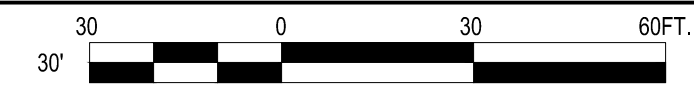
DESIGNED BY: E.A. (CAS)		GRADING AND DRAINAGE PLAN		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION		SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
DATE		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		CG102 SHEET 230F 53



FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TTY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\116033009_CG-SERIES.DWG (CG102)



B1 GRADING AND DRAINAGE PLAN
SCALE: 1" = 30'



401. PROPOSED GRADING LIMITS. 5% MAXIMUM SLOPE, 5' MINIMUM DISTANCE.
402. MATCH EXISTING GRADE.
403. INSTALL 12" RCP, CLASS IV PIPE.
404. ADJUST EXISTING CATCH BASIN TO FINISH GRADE.
405. REMOVE EXISTING CATCH BASIN.
406. INSTALL NEW CATCH BASIN. SEE DETAIL B3 & B4, SHEET CG-501.

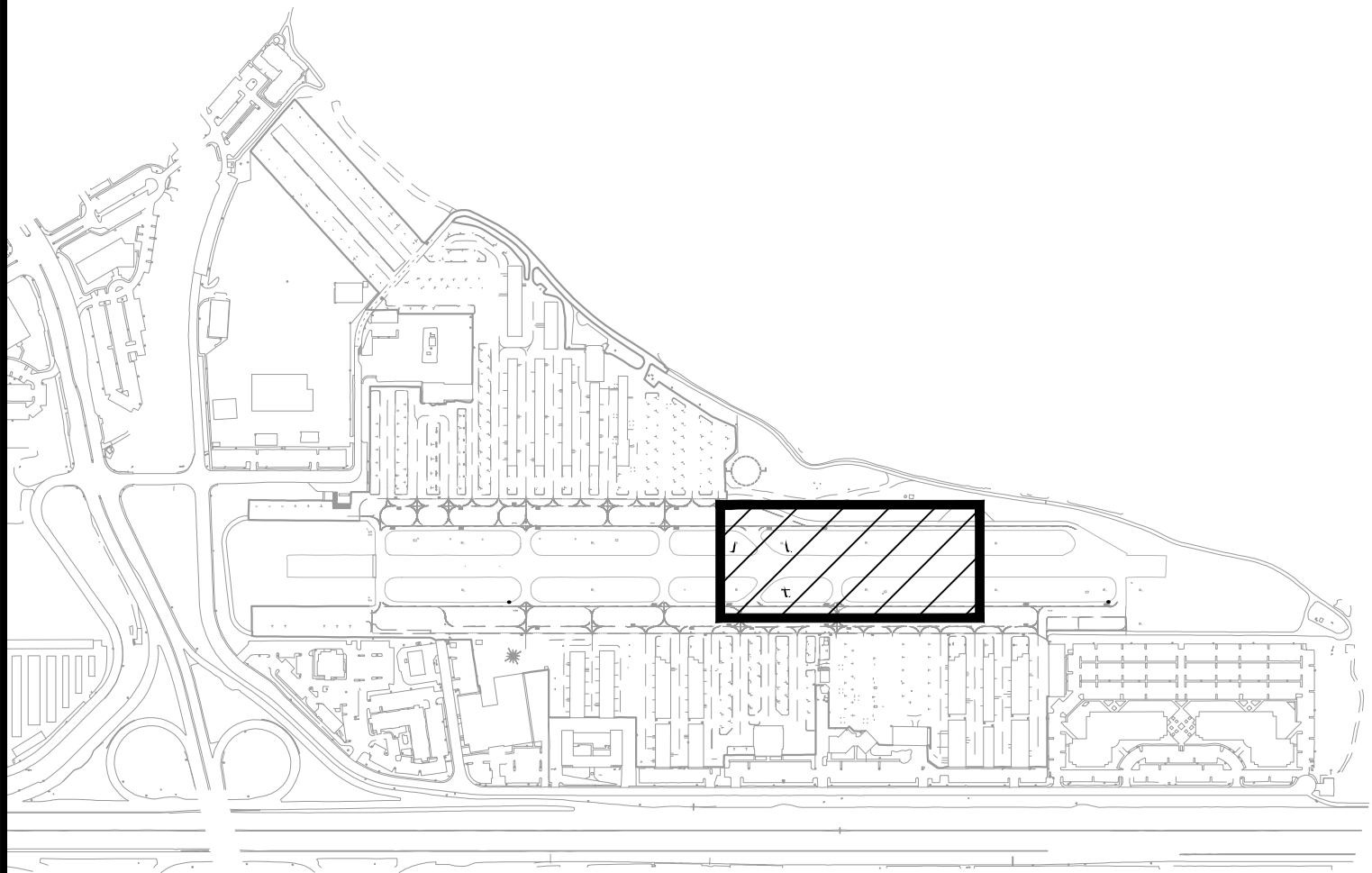
- PROPOSED PAVEMENT SECTION
 PROPOSED RSA SOIL STABILIZATION
 PROPOSED STORM DRAIN CATCH BASIN
DS-1 DRAINAGE SYSTEM NO.

A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 LEGEND
SCALE: NOT TO SCALE

A3 NOT USED
SCALE: NOT TO SCALE

A4 KEY MAP
SCALE: NOT TO SCALE



APPROVED:
DATE: 1/27/2023

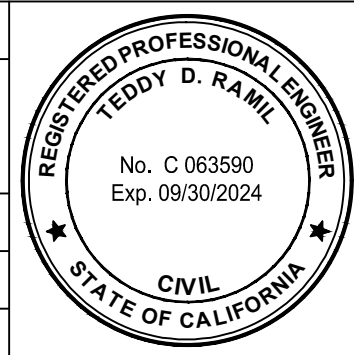
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
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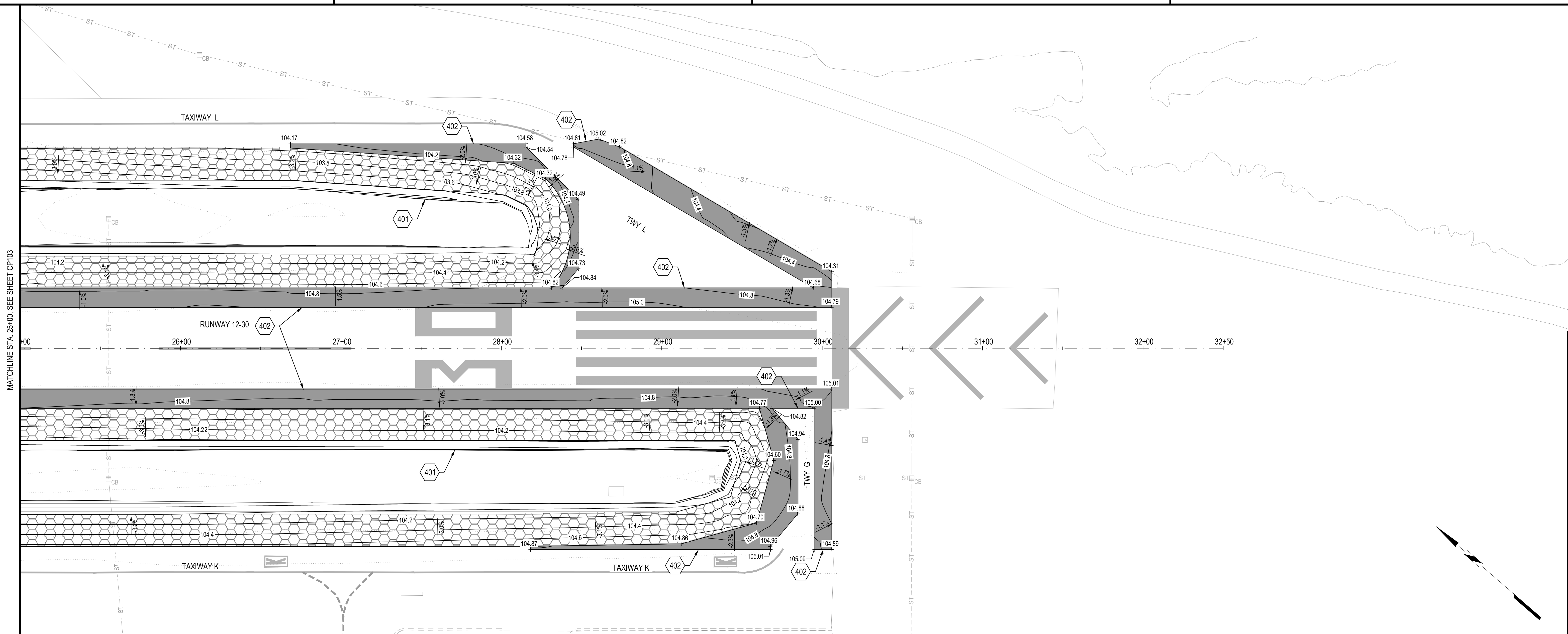
APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C 063590 EXPIRES 09-30-2024



DESIGNED BY: E.A. (CAS)		GRADING AND DRAINAGE PLAN		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION		DATE		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
				CG103 SHEET 24OF 53

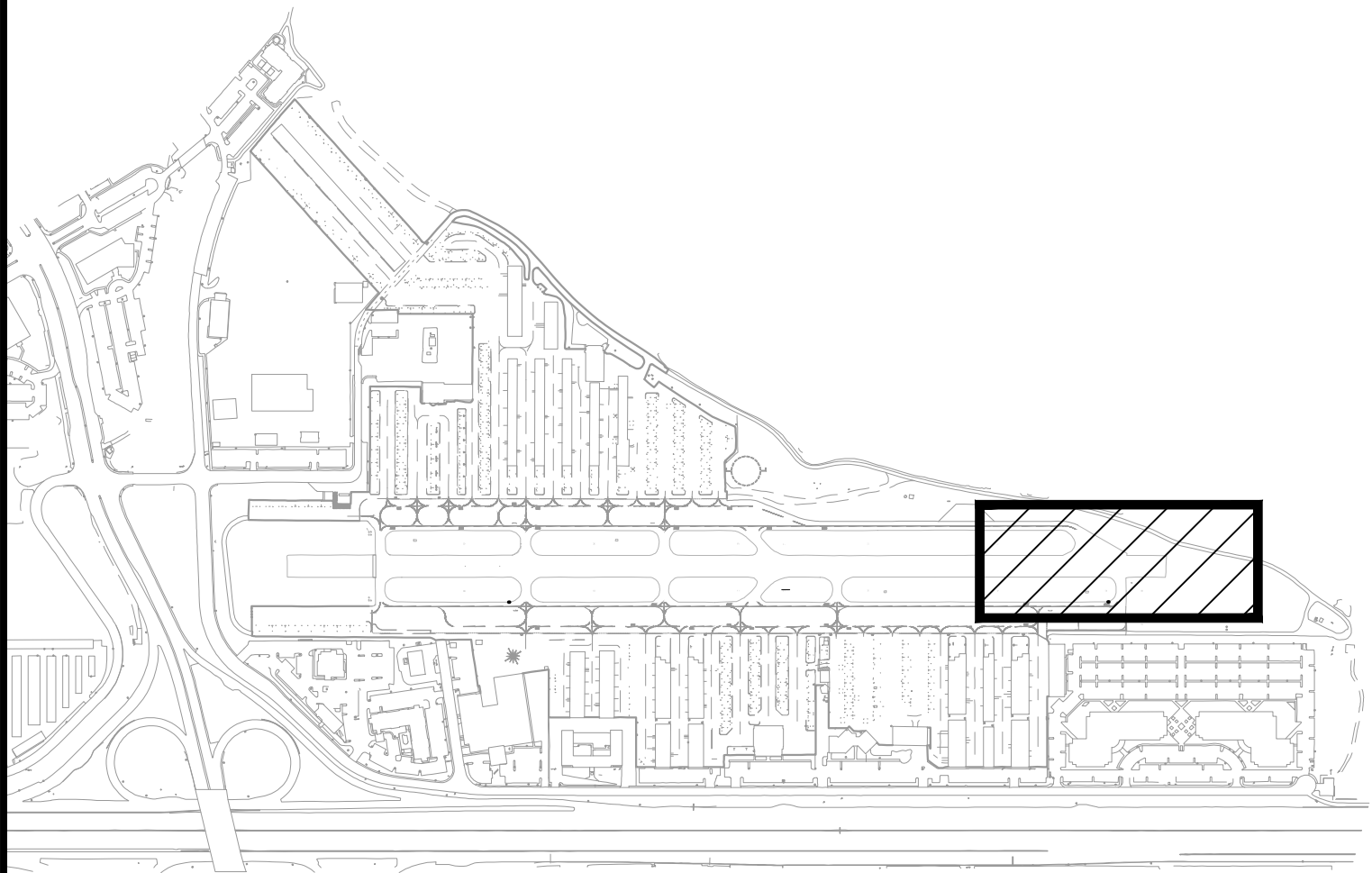
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



B1 GRADING AND DRAINAGE PLAN
SCALE: 1" = 30'

401. PROPOSED GRADING LIMITS, 5% MAXIMUM SLOPE, 5' MINIMUM DISTANCE.
402. MATCH EXISTING GRADE

- PROPOSED STRUCTURAL PAVEMENT SECTION
PROPOSED RSA SOIL STABILIZATION



A1 KEYED NOTES SCALE: NOT TO SCALE
A2 LEGEND SCALE: NOT TO SCALE
A3 NOT USED SCALE: NOT TO SCALE
A4 KEY MAP SCALE: NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/23
CIVIL
STATE OF CALIFORNIA

APPROVED:
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

APPROVED DATE: 01-27-2023

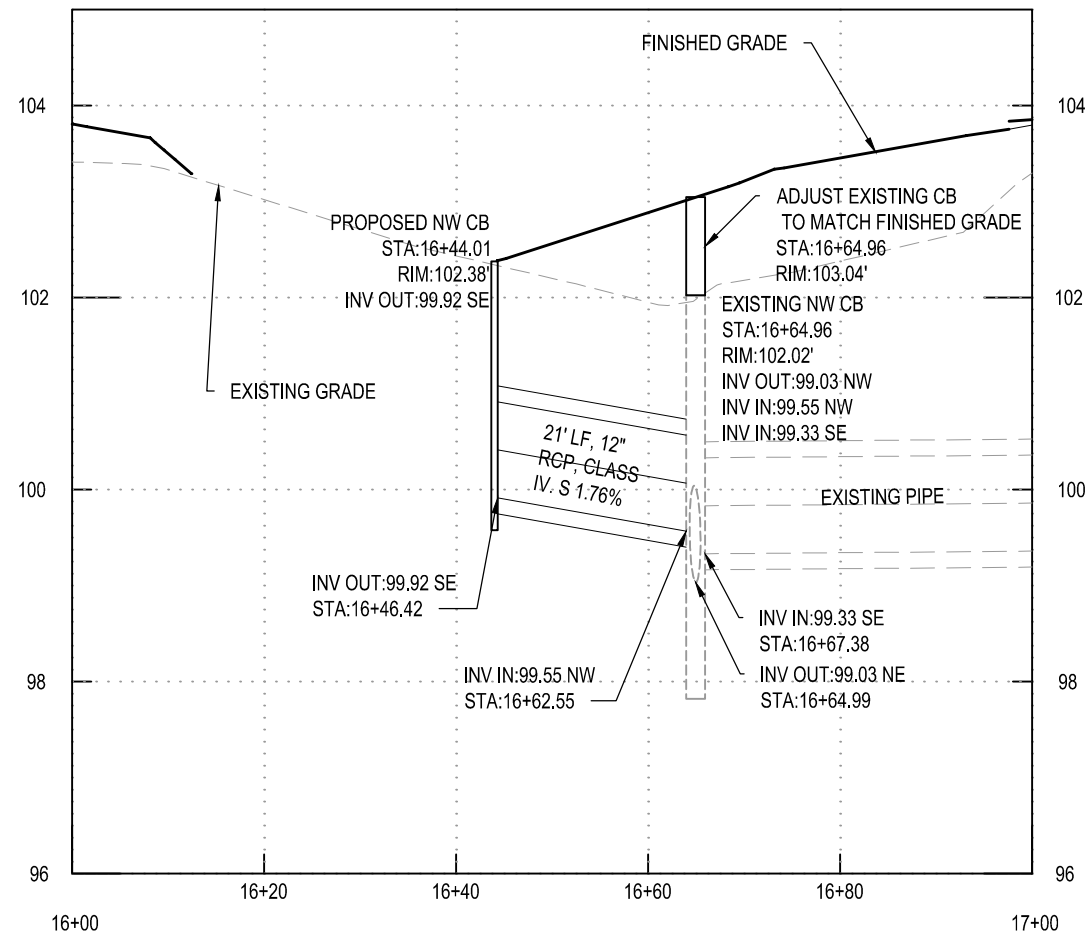
REGISTERED PROFESSIONAL ENGINEER
TEDDY D. RAMIL
No. C 063590
Exp. 09/30/2024
CIVIL
STATE OF CALIFORNIA

COUNTY OF SAN MATEO
PUBLIC WORKS

DESIGNED BY: E.A. (CAS)	GRADING AND DRAINAGE PLAN	SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	

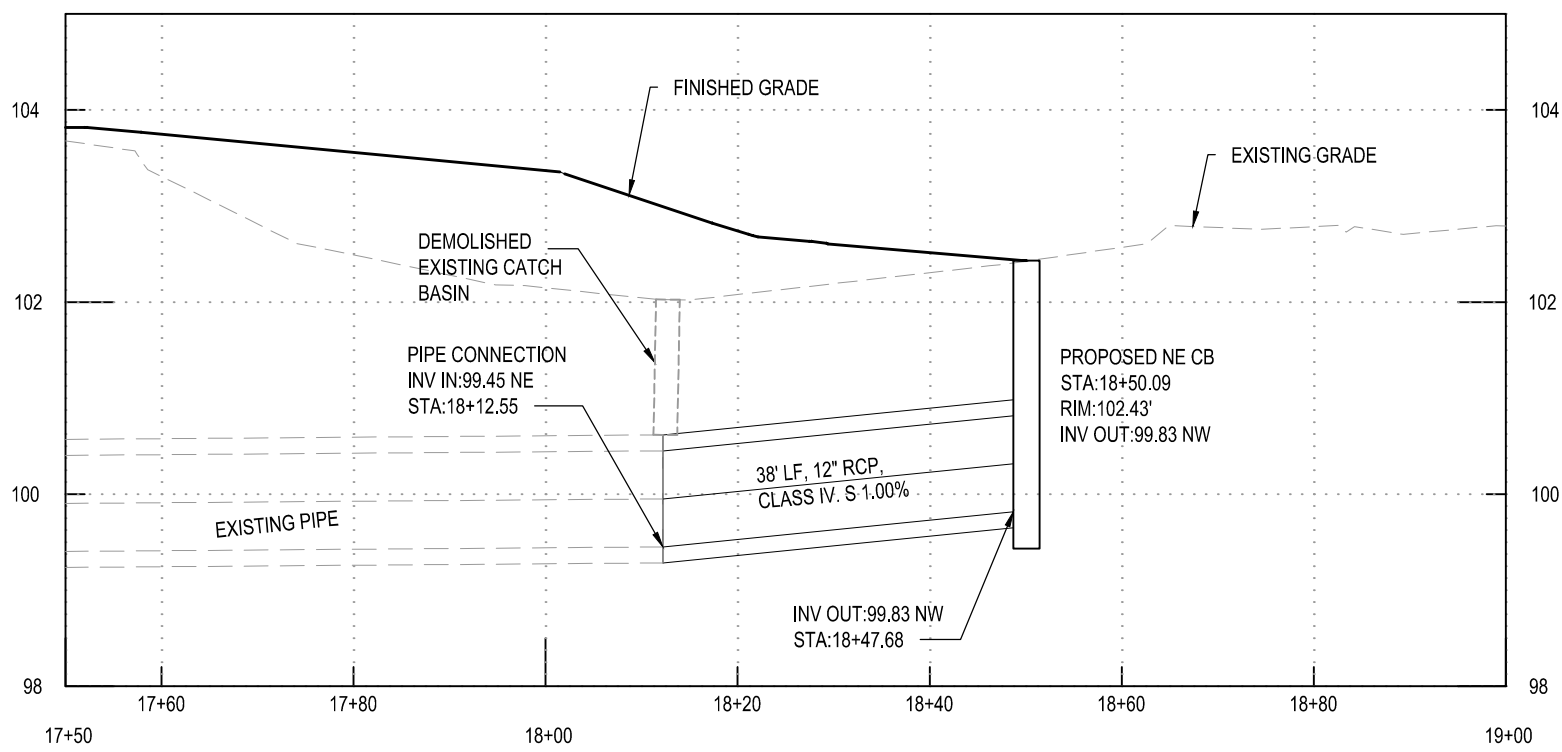
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

CG104
SHEET 250F 53



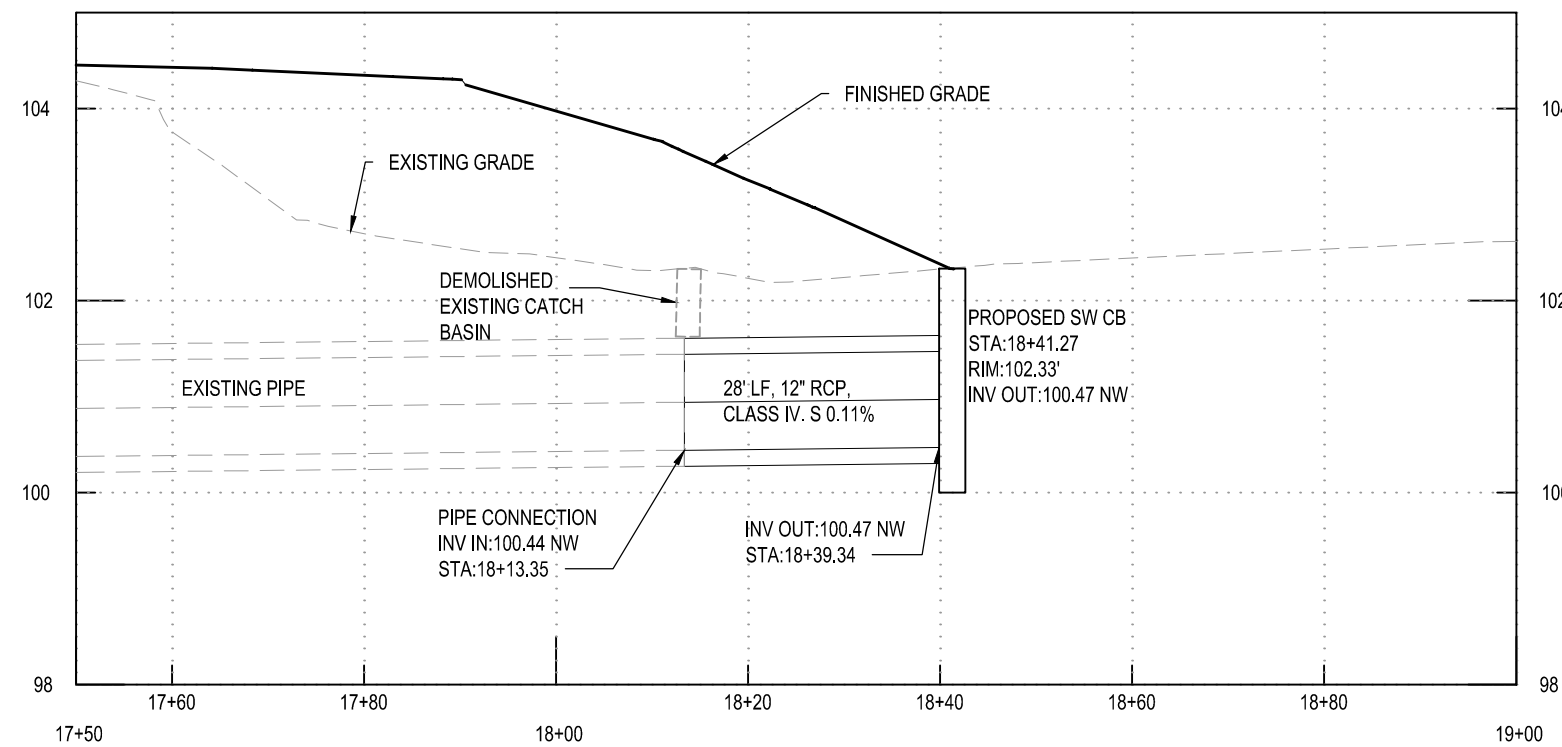
C1 DS-1 (DRAINAGE SYSTEM PROFILE)

SCALE: V: 1"=3', H: 1"=30'



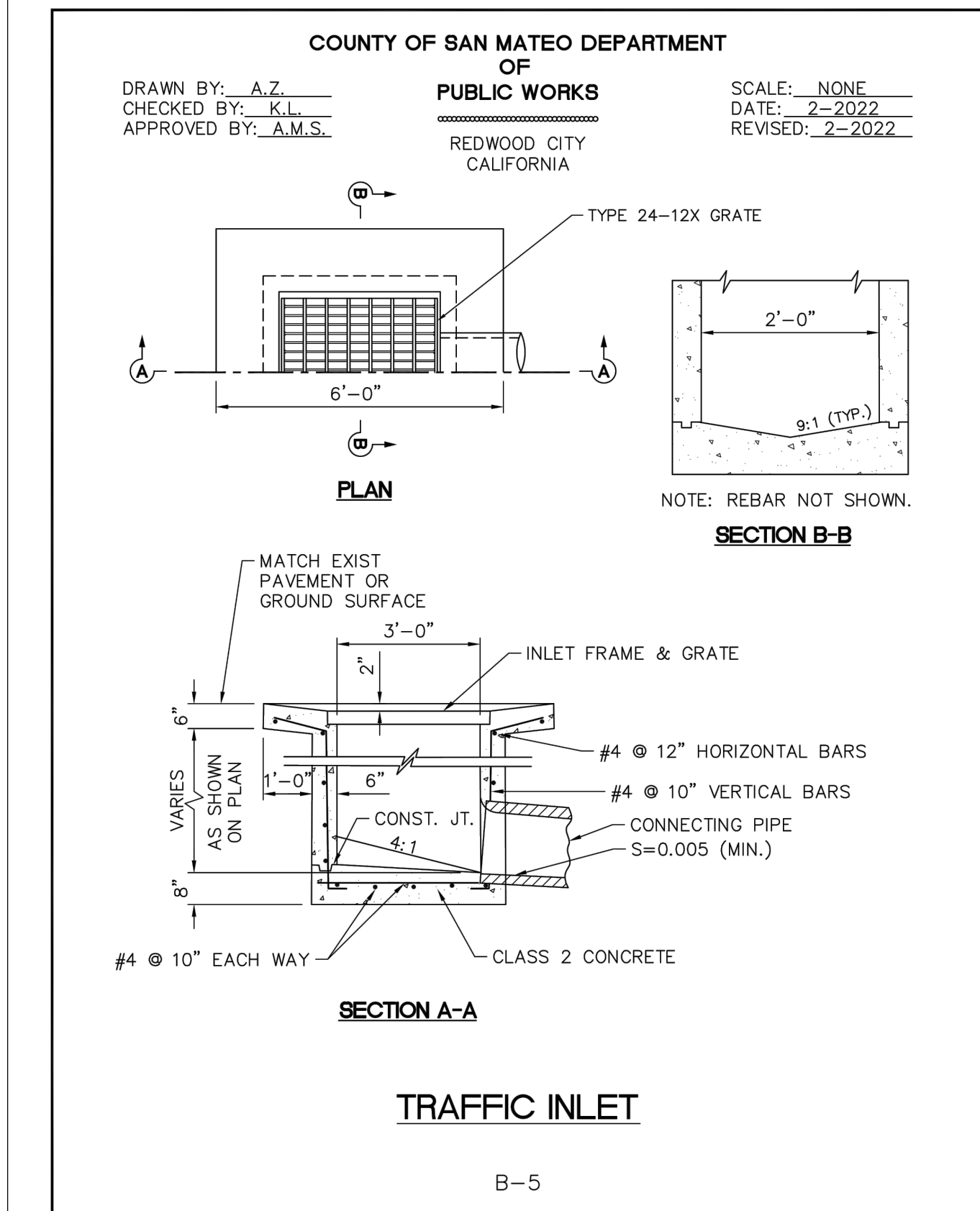
B1 DS-2 (DRAINAGE SYSTEM PROFILE)

SCALE: V: 1"=3', H: 1"=30'



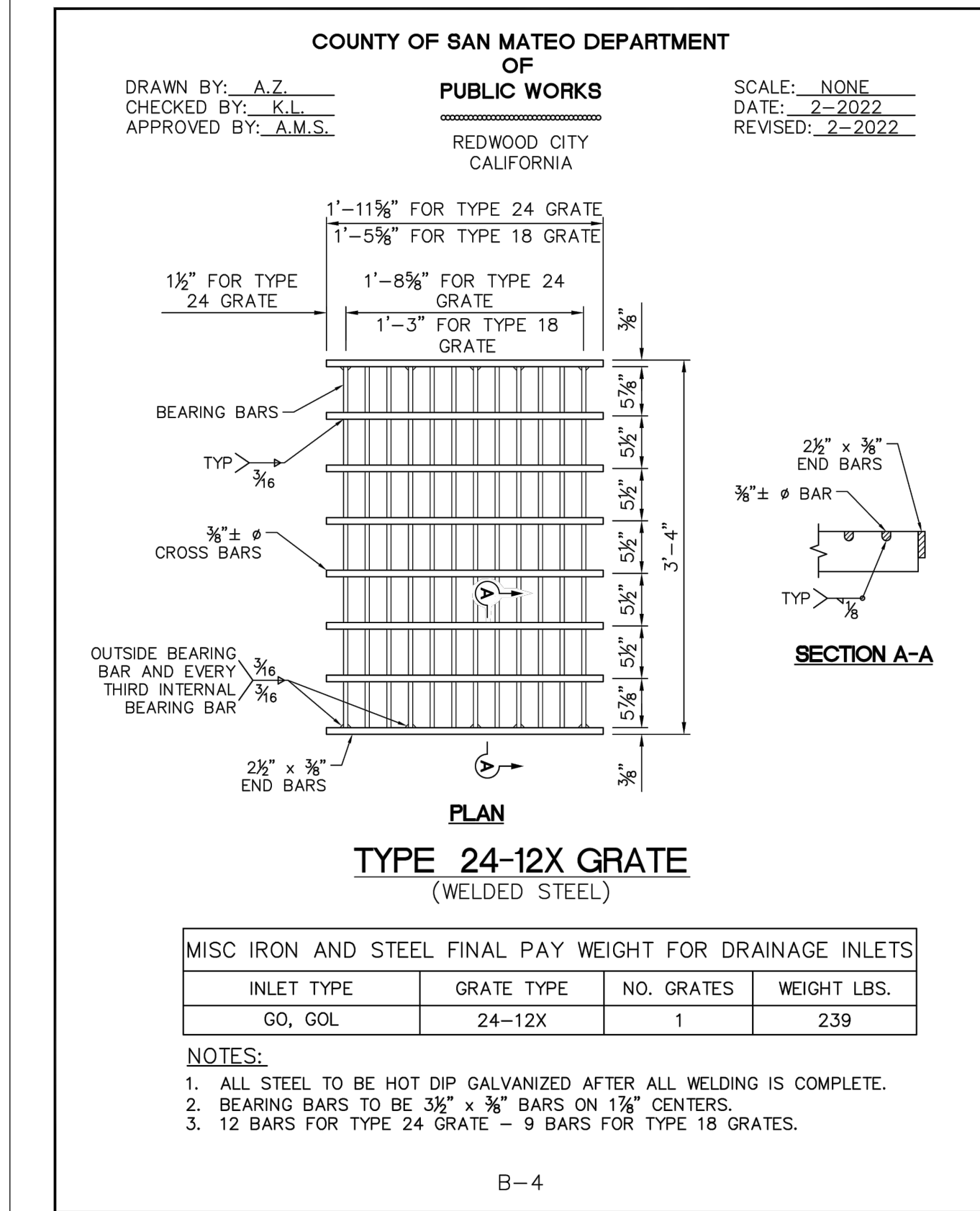
A1 DS-3 (DRAINAGE SYSTEM PROFILE)

SCALE: V: 1"=3', H: 1"=30'



B3 CATCH BASIN DETAIL

SCALE: V: 1"=3', H: 1"=30'



B4 CATCH BASIN GRATE DETAIL

SCALE: V: 1"=3', H: 1"=30'



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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Sacramento, California 95826
Phone: 916-364-1470
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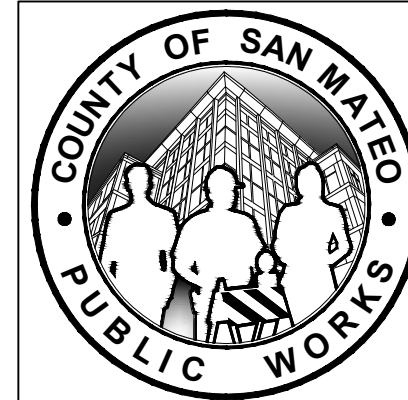
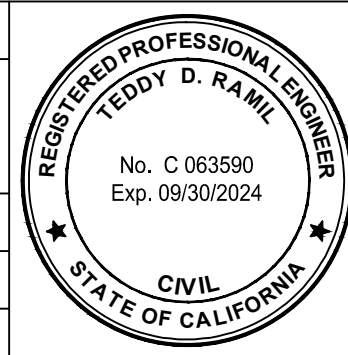


APPROVED DATE: 01-27-2023

TEDDY D. RAMIL

C&S ENGINEERS, INC.

R.C.E. # C 063590 EXPIRES 09-30-2024



DESIGNED BY: E.A. (CAS)

CHECKED BY: D.M. (CAS)

DRAWN BY: E.A. (CAS)

ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS

SAN MATEO COUNTY

STORM DRAIN PROFILES & DETAILS

RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION

555 COUNTY CENTER, 5th FLOOR

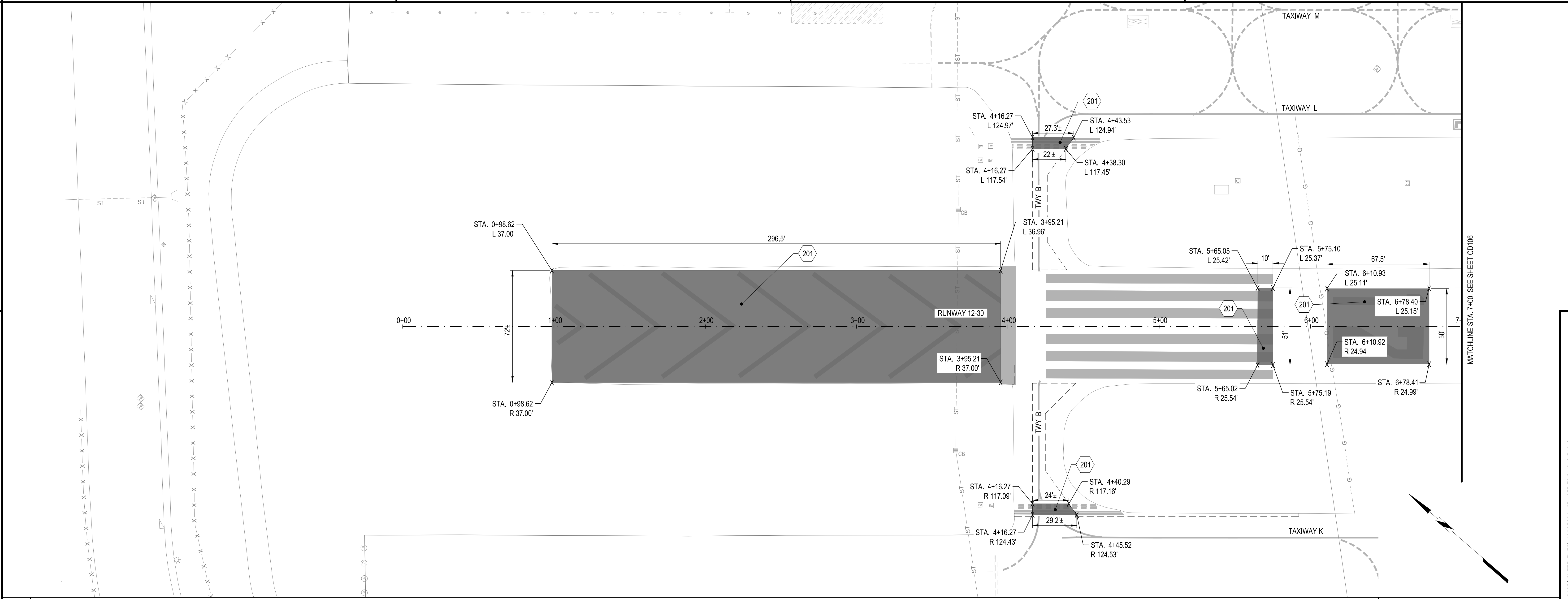
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



CG501
SHEET 26OF 53

FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TTY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\16003009_CP-DETAILS.DWG (CG501)



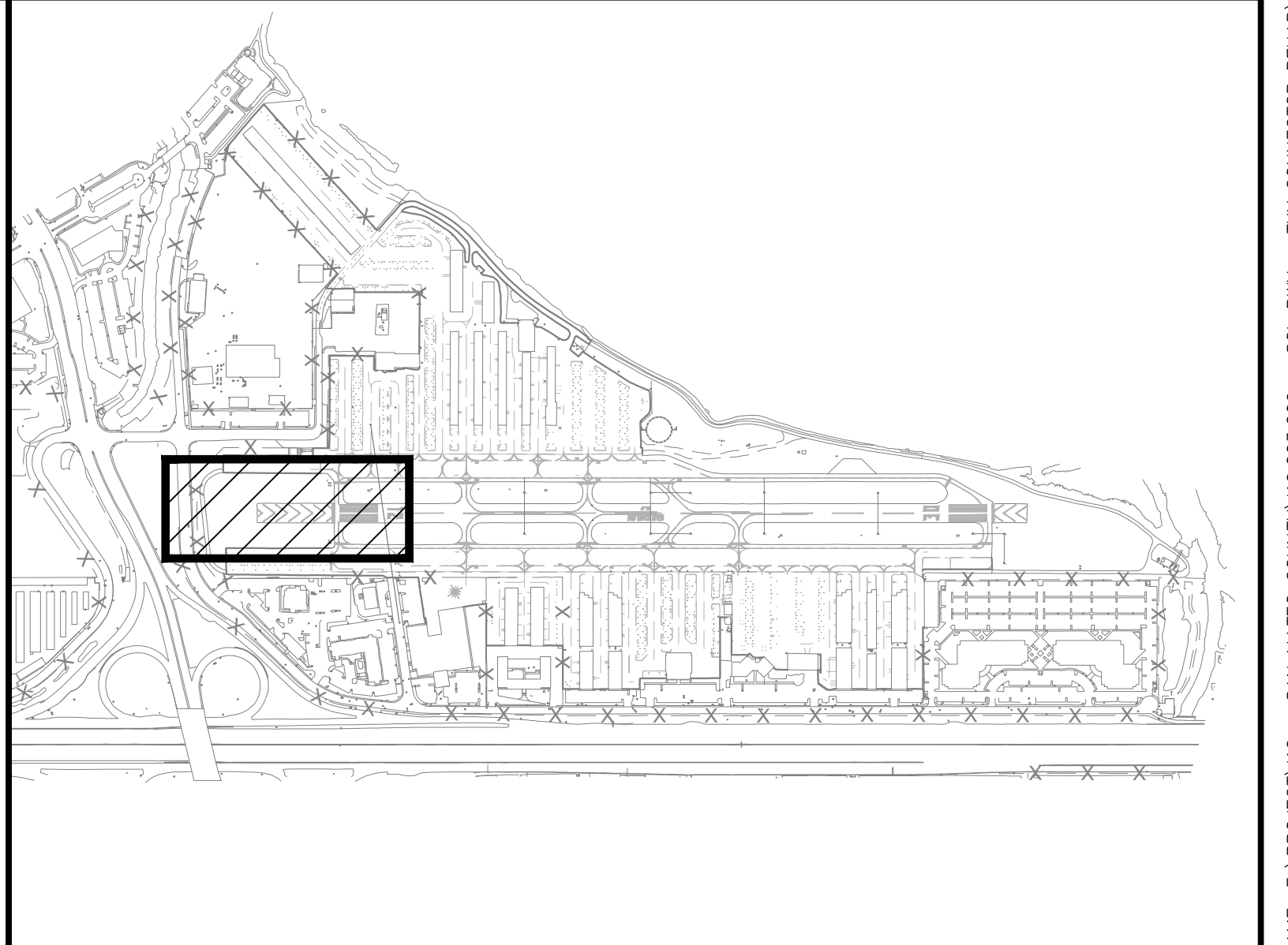
B1 DEMOLITION PLAN - MARKING
SCALE: 1" = 30'

201. OBLITERATE PAVEMENT MARKINGS PER DIMENSIONS NOTED, ITEM P-620.

A2 LEGEND
SCALE: NOT TO SCALE

NOTES:

1. TAXIWAY HOLDING POSITION SIGNS WILL BE REMOVED WITH THE PAVEMENT REMOVAL, SEE SHEETS CD101 THROUGH CD 104 FOR PAVEMENT DEMOLITION INFORMATION.



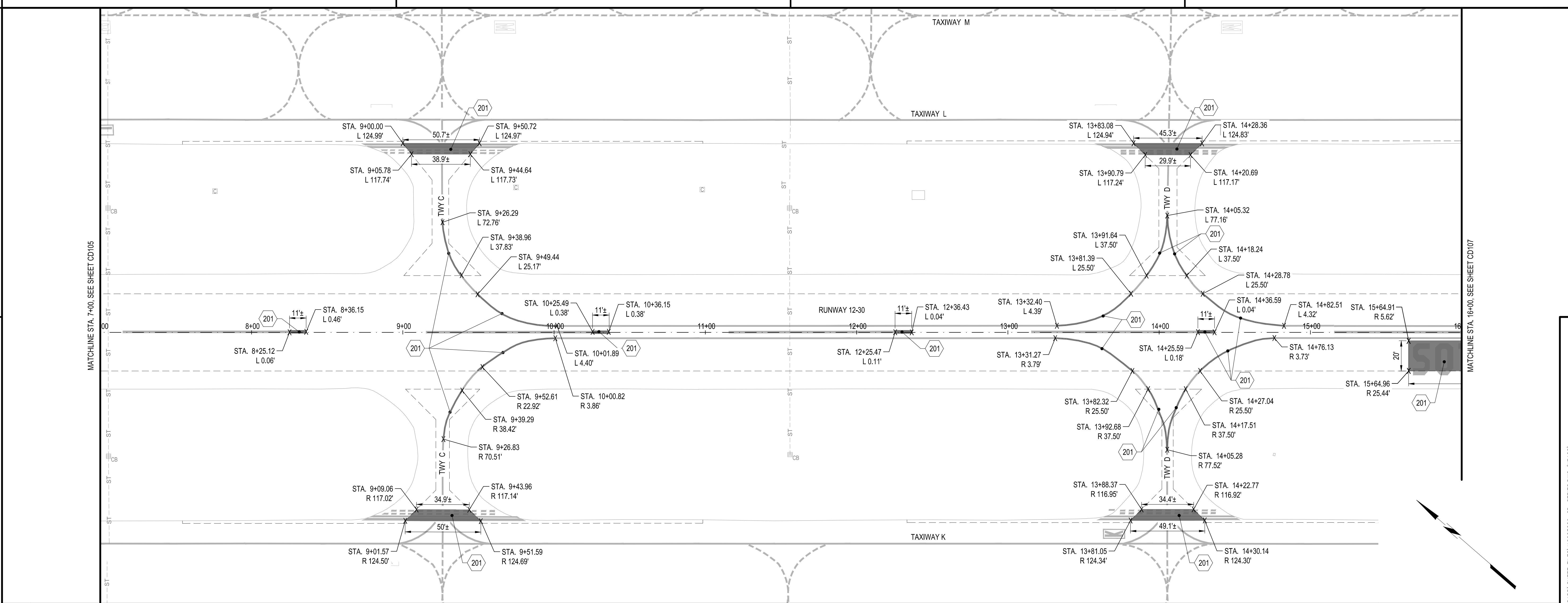
A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 LEGEND
SCALE: NOT TO SCALE

A3 SHEET NOTES
SCALE: NOT TO SCALE

A4 KEY MAP
SCALE: NOT TO SCALE

	APPROVED:	C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com		APPROVED DATE: 01-27-2023			DESIGNED BY: E.A. (C&S)	DEMOLITION PLAN - MARKING	SCALE: 1" = 30'	
	DATE: 1/27/2023			CHECKED BY: D.M. (C&S)			DATE: JANUARY 2023			
	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS R. C. E. # 47882 / EXPIRES 12-31-2023			TEDDY D. RAMIL			DRAWN BY: E.A. (C&S)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	FILE NO.: 15077	
	C&S ENGINEERS, INC.			R.C.E. # C063590 EXPIRES 09-30-2024			ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY			555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
							REVISION	DATE	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES	XD101 SHEET 27 OF 53

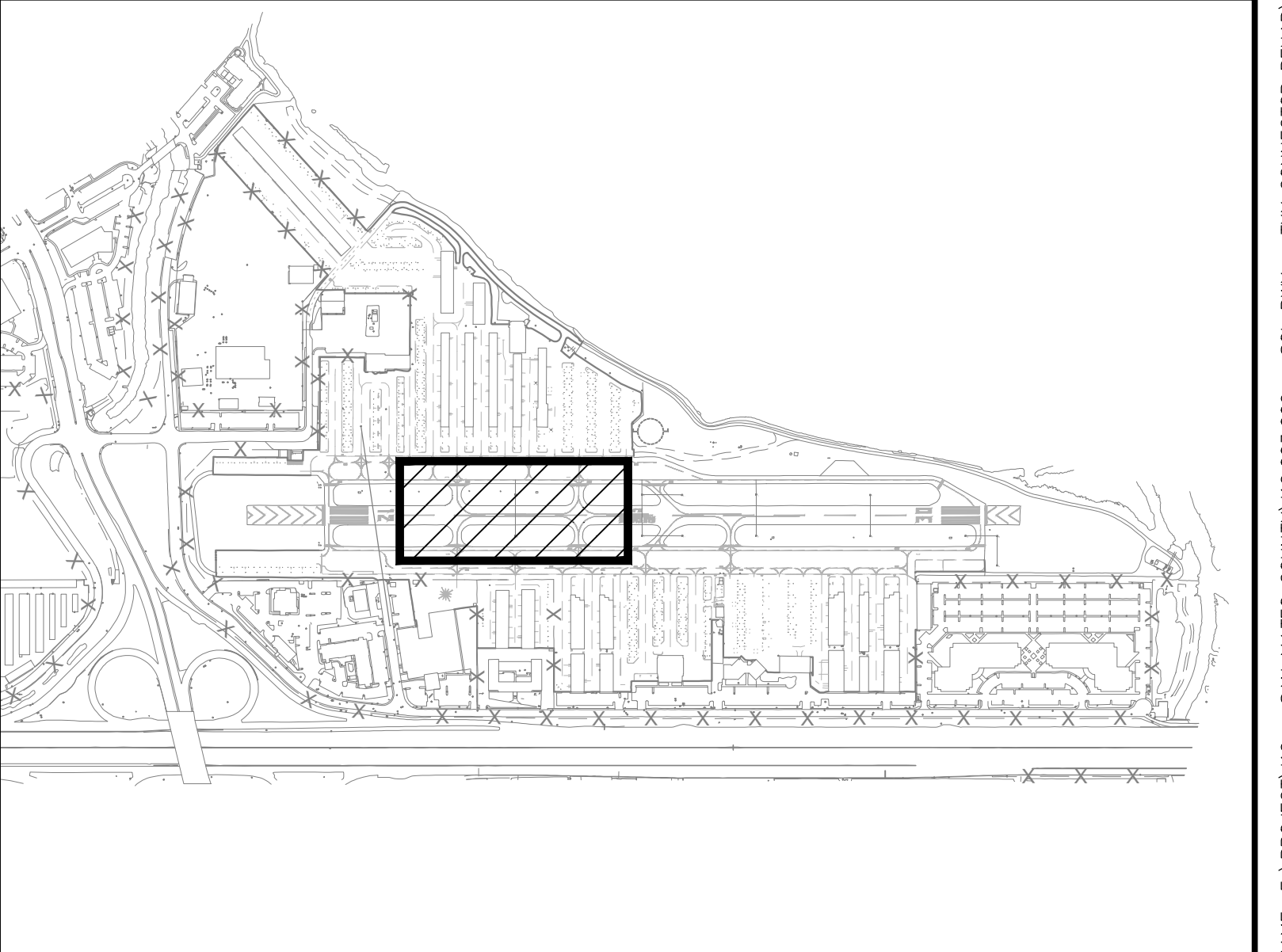


B1 DEMOLITION PLAN
SCALE: 1" = 30'

201. OBLITERATE PAVEMENT MARKINGS PER DIMENSIONS NOTED, ITEM P-620.

A2 LEGEND
SCALE: NOT TO SCALE

NOTES:
1. TAXIWAY HOLDING POSITION SIGNS WILL BE REMOVED WITH THE PAVEMENT REMOVAL, SEE SHEETS CD101 THROUGH CD 104 FOR PAVEMENT DEMOLITION INFORMATION.



A1 KEYED NOTES
SCALE: NOT TO SCALE

APPROVED:
DATE: 1/27/2023
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
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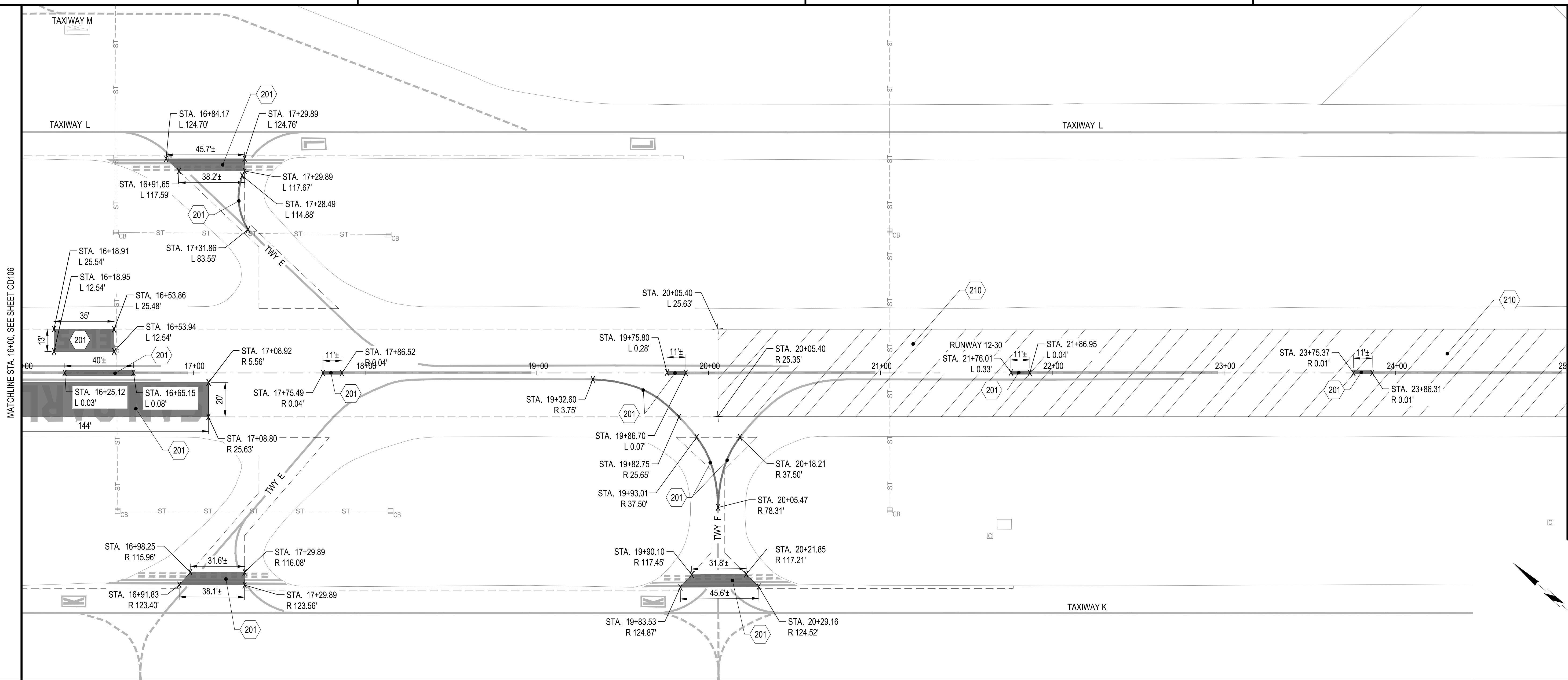
A3 SHEET NOTES
SCALE: NOT TO SCALE

APPROVED DATE: 01-27-2023

TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024

A4 KEY MAP
SCALE: NOT TO SCALE

DESIGNED BY: E.A. (CAS)	DEMOLITION PLAN		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION	DATE	SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			 XD102 SHEET 280F 53



B1

DEMOLITION PLAN - MARKING

SCALE: 1" = 30'

30

0

30

60 FT.

201. OBLITERATE PAVEMENT MARKINGS PER DIMENSIONS NOTED, ITEM P-620.

210. REMOVE EXISTING RUBBER FROM SURFACE, ITEM P-101.

OBLITERATE EXISTING PAVEMENT MARKINGS

REMOVE EXISTING RUBBER

LIMITS OF PAVEMENT REMOVAL

NOTES:

1. TAXIWAY HOLDING POSITION SIGNS WILL BE REMOVED WITH THE PAVEMENT REMOVAL. SEE SHEETS CD101 THROUGH CD 104 FOR PAVEMENT DEMOLITION INFORMATION.

A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

LEGEND

SCALE: NOT TO SCALE

A3

SHEET NOTES

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER

ANN MADER STILLMAN

C 47882

EXPIRES 12/31/23

CIVIL

STATE OF CALIFORNIA

APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.

7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com

C&S

COMPANIES

APPROVED DATE: 01-27-2023

REGISTERED PROFESSIONAL ENGINEER

TEDDY D. RAMIL

No. C 063590

Exp. 09/30/2024

CIVIL

STATE OF CALIFORNIA

TEDDY D. RAMIL

C&S ENGINEERS, INC.

R.C.E. # C063590 EXPIRES 09-30-2024

COUNTY OF SAN MATEO

PUBLIC WORKS

DESIGNED BY: E.A. (CAS)	DEMOLITION PLAN - MARKING		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)			FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR		
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063		

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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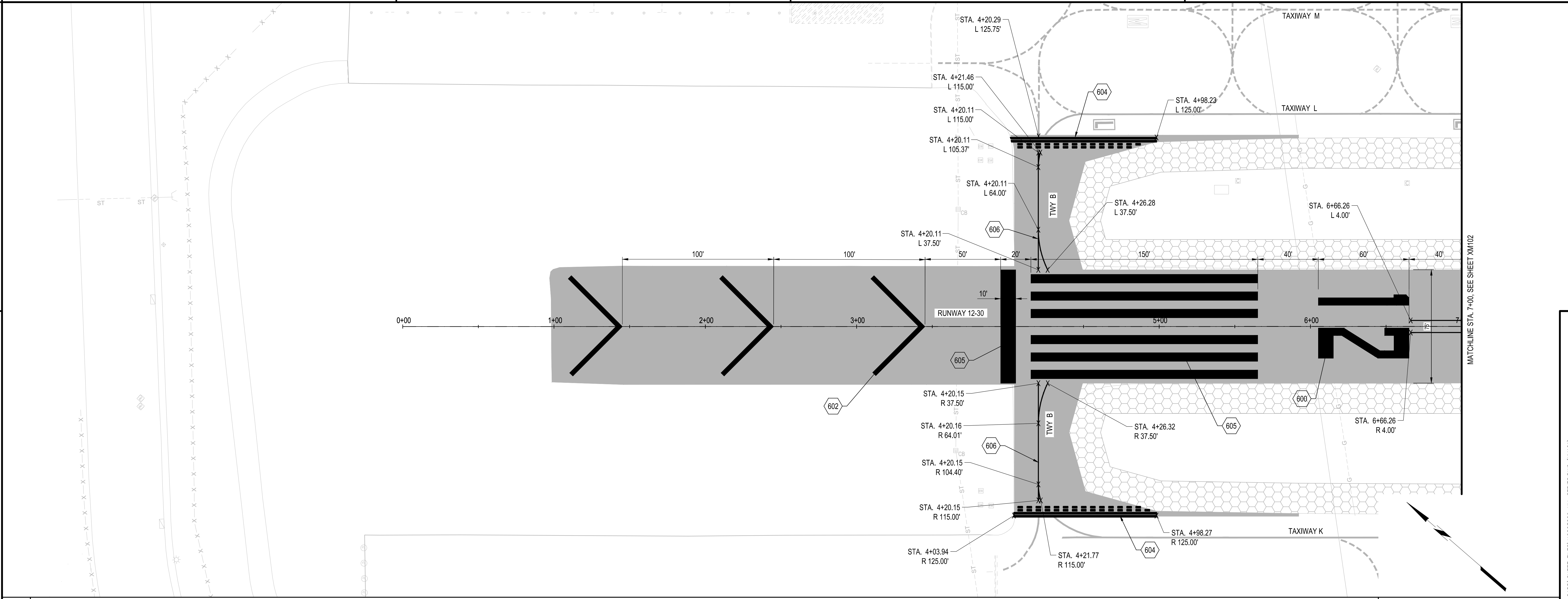
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XD103

SHEET 290F 53

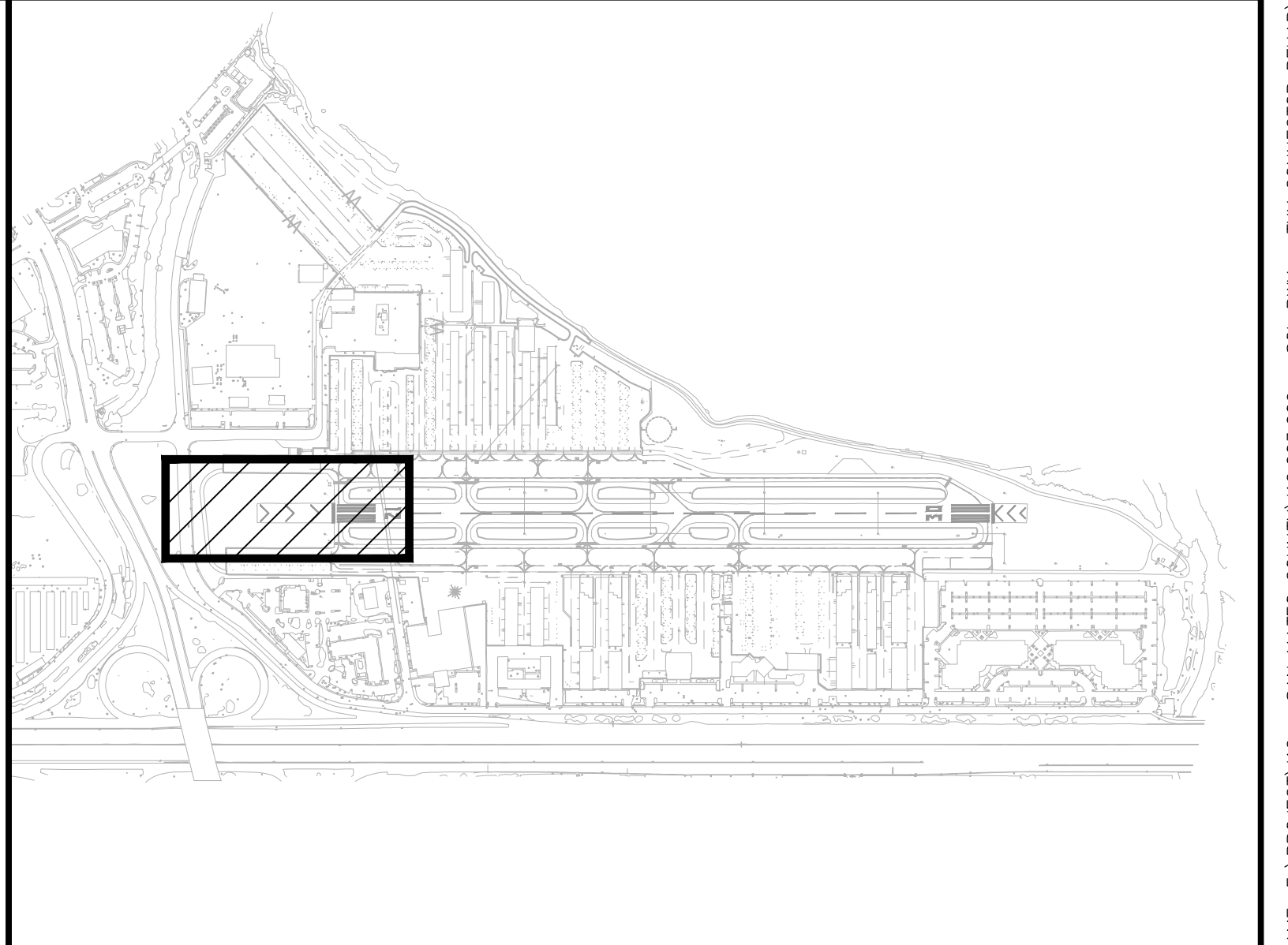


B1 MARKING PLAN
SCALE: 1" = 30'

600. RUNWAY LANDING DESIGNATOR MARKING, WHITE, ITEM P-620. SEE DETAIL A1/XM501.
602. RUNWAY 12 END CHEVRON MARKING, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL A2/XM501.
604. RUNWAY HOLDING POSITION MARKING, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL C1/XM501.
605. RUNWAY THRESHOLD MARKING, WHITE, ITEM P-620. SEE DETAIL C2/XM501.
606. TAXIWAY CENTERLINE MARKING, 6" WIDE, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL B3/XM501.

- NOTES:
- FOR RUNWAY AND TAXIWAY CENTERLINE SEPARATION DISTANCES SEE DETAIL B1/XM501.
 - TAXIWAY CENTERLINE MARKINGS ARE INTERRUPTED FOR ALL RUNWAY MARKINGS UNLESS OTHERWISE NOTED.
 - REFLECTIVE MEDIA SHOULD NEVER BE USED IN BLACK PAINT.

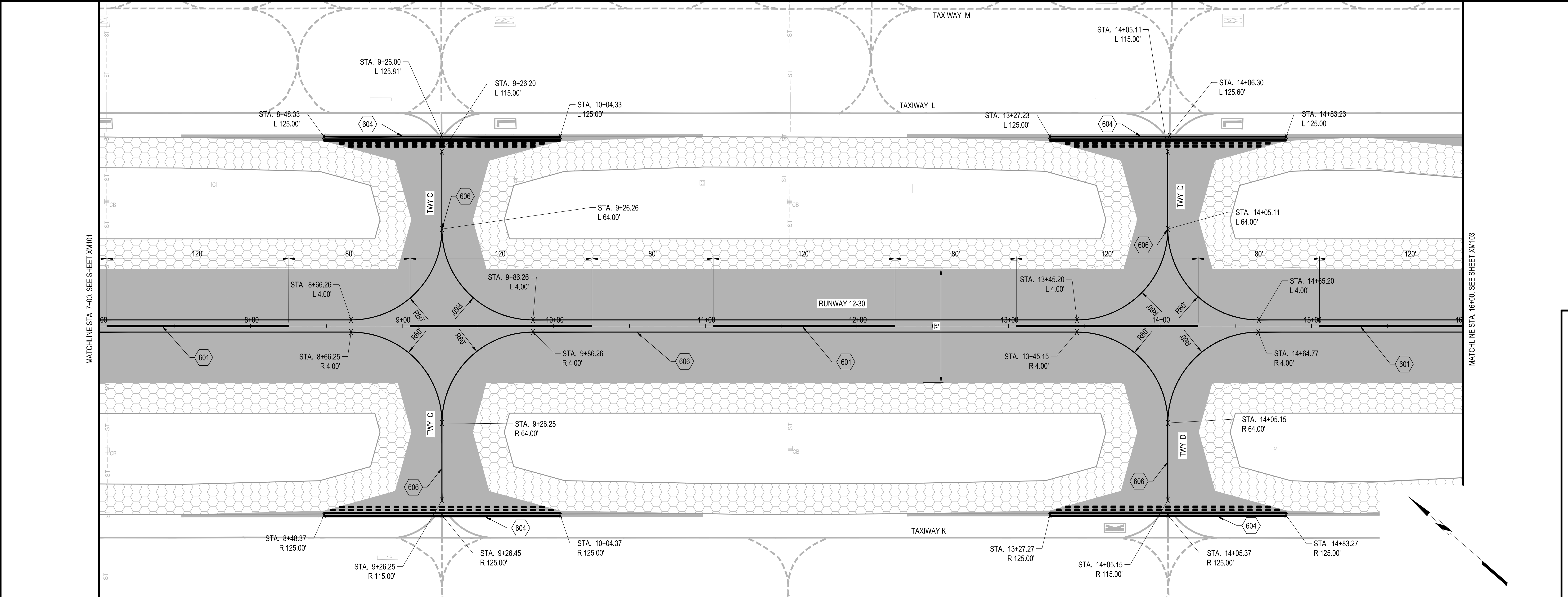
A3 NOT USED
SCALE: NOT TO SCALE



A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 GENERAL NOTES
SCALE: NOT TO SCALE

	APPROVED: DATE: 1/27/2023 	C&S Engineers, Inc. 7801 Folsom Boulevard, Suite 210 Sacramento, California 95826 Phone: 916-364-1470 www.cscos.com		APPROVED DATE: 01-27-2023 TEDDY D. RAMIL C&S ENGINEERS, INC. R.C.E. # C063590 EXPIRES 09-30-2024			DESIGNED BY: E.A.(C&S) CHECKED BY: D.M.(C&S) DRAWN BY: E.A.(C&S) ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	MARKING PLAN RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION 555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	SCALE: 1" = 30' DATE: JANUARY 2023 FILE NO.: 1/5077
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES									XM101 SHEET 310F 53



B1

MARKING PLAN

SCALE: 1" = 30'

30

0

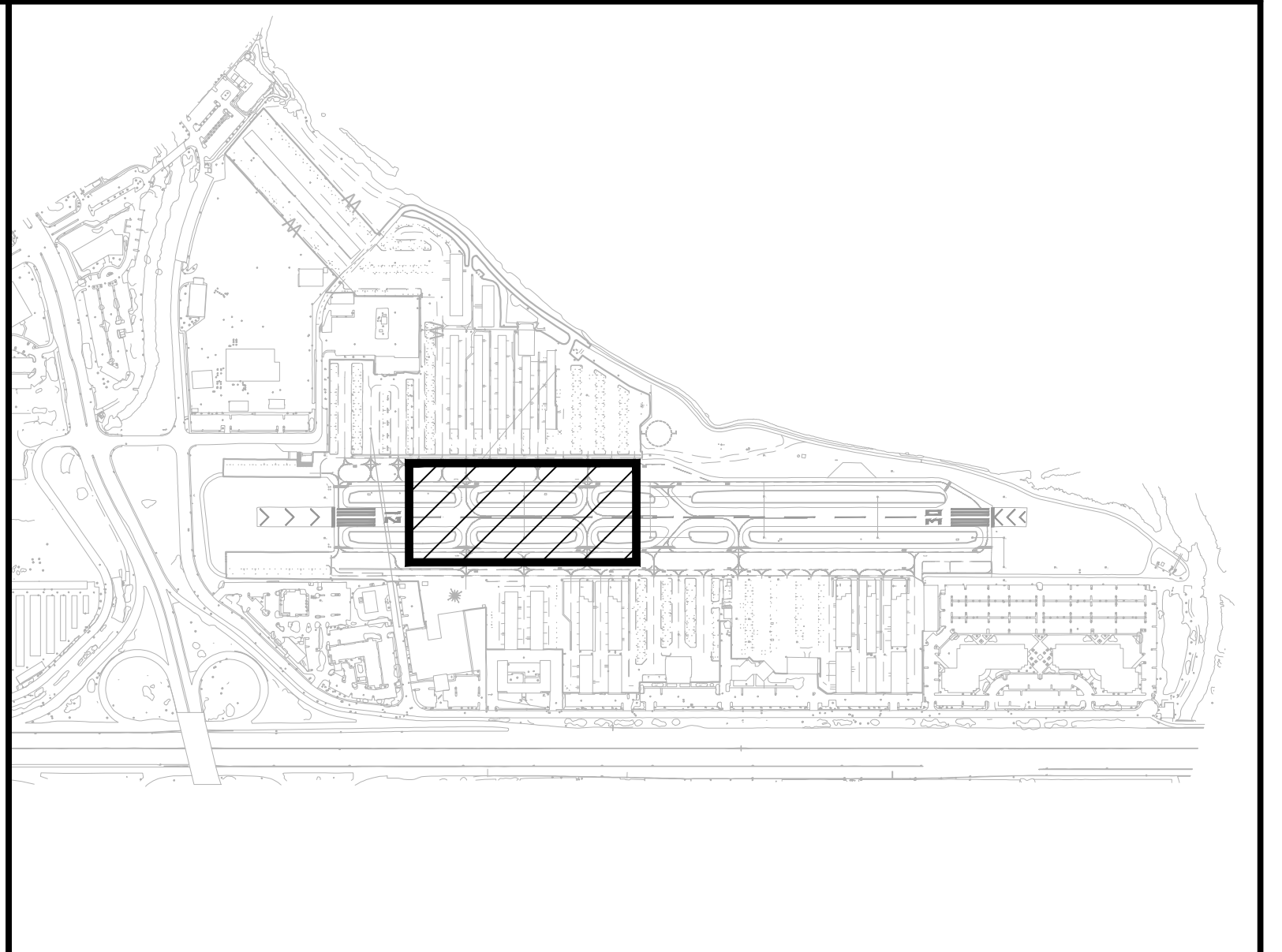
30

60

FT.

601. RUNWAY CENTERLINE MARKING, 18" WIDE, WHITE WITH 6" BLACK BORDER (TYP.), ITEM P-620.
604. RUNWAY HOLDING POSITION MARKING, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL C1/XM501.
606. TAXIWAY CENTERLINE MARKING, 6" WIDE, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL B3/XM501.

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A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

GENERAL NOTES

SCALE: NOT TO SCALE

A3

NOT USED

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE

APPROVED:
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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R.C.E. # C063590 EXPIRES 09-30-2024

DESIGNED BY: E.A. (CAS)	MARKING PLAN	SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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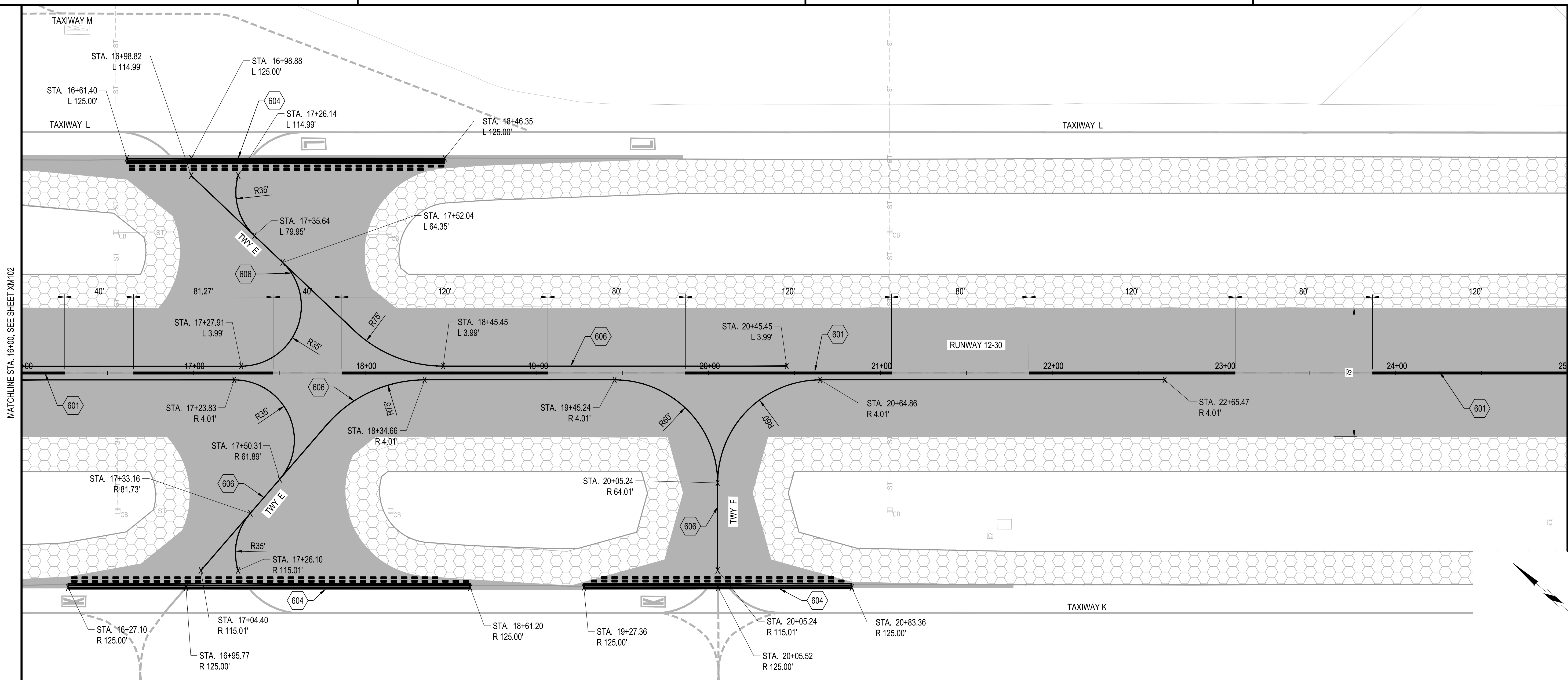
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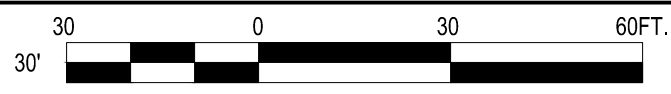
 XM102 SHEET 32 OF 53 |



B1 MARKING PLAN
SCALE: 1" = 30'

601. RUNWAY CENTERLINE MARKING, 18" WIDE, WHITE WITH 6" BLACK BORDER (TYP.), ITEM P-620.
604. RUNWAY HOLDING POSITION MARKING, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL C1/XM501.
606. TAXIWAY CENTERLINE MARKING, 6" WIDE, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL B3/XM501.

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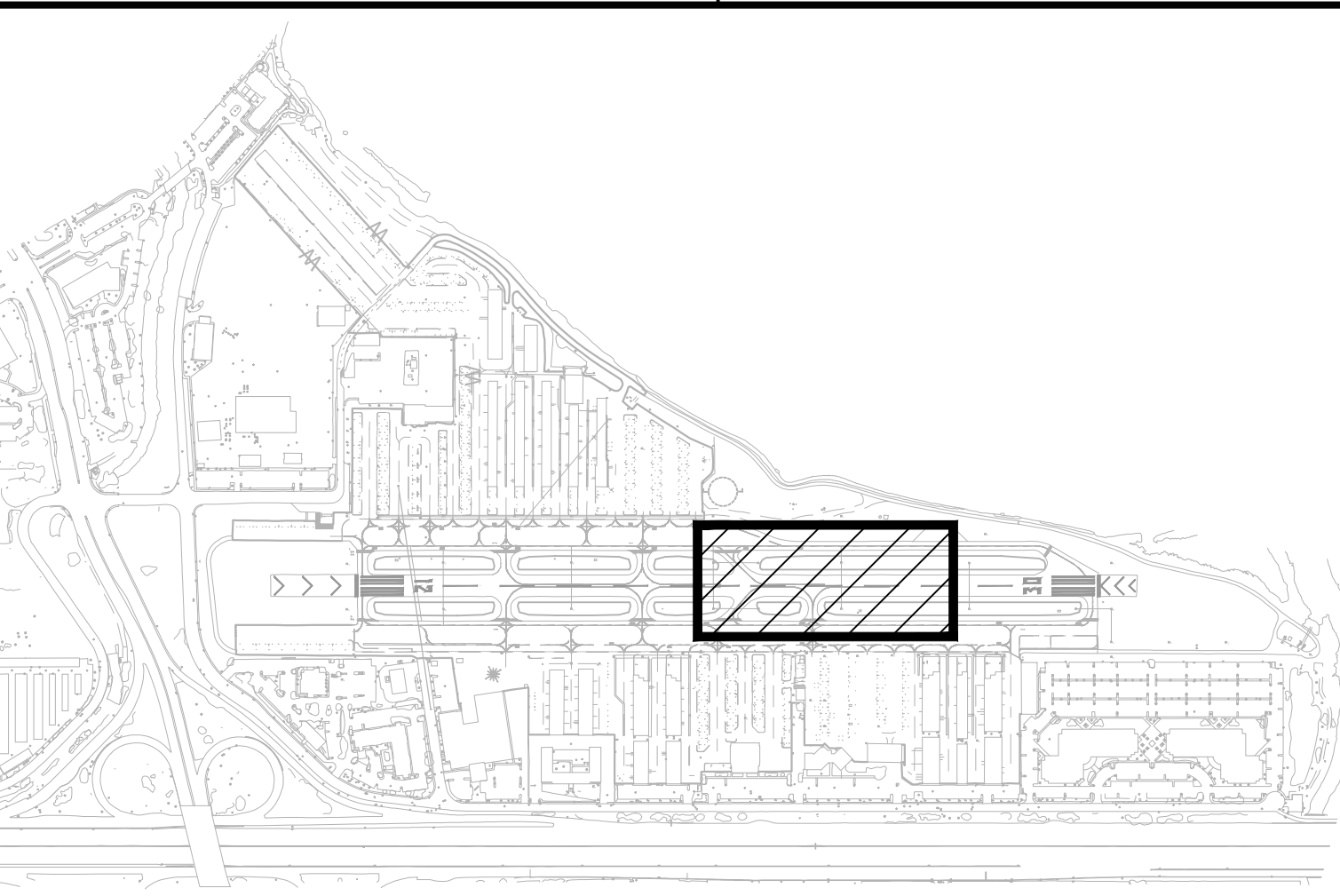


A1 KEYED NOTES

A2 GENERAL NOTES

A3 NOT USED

A4 KEY MAP



APPROVED:

DATE: 1/27/2023

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DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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APPROVED DATE: 01-27-2023

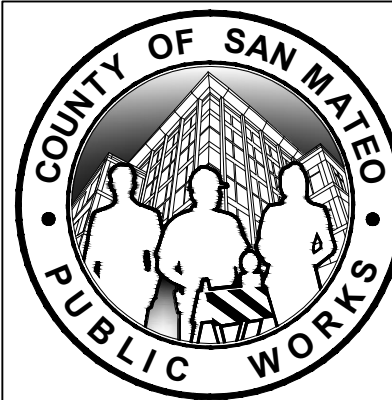
TEDDY D. RAMIL

C&S ENGINEERS, INC.

R.C.E. # C063590 EXPIRES 09-30-2024

REVISION

DATE



DESIGNED BY: E.A. (CAS)

CHECKED BY: D.M. (CAS)

DRAWN BY: E.A. (CAS)

ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS

SAN MATEO COUNTY

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

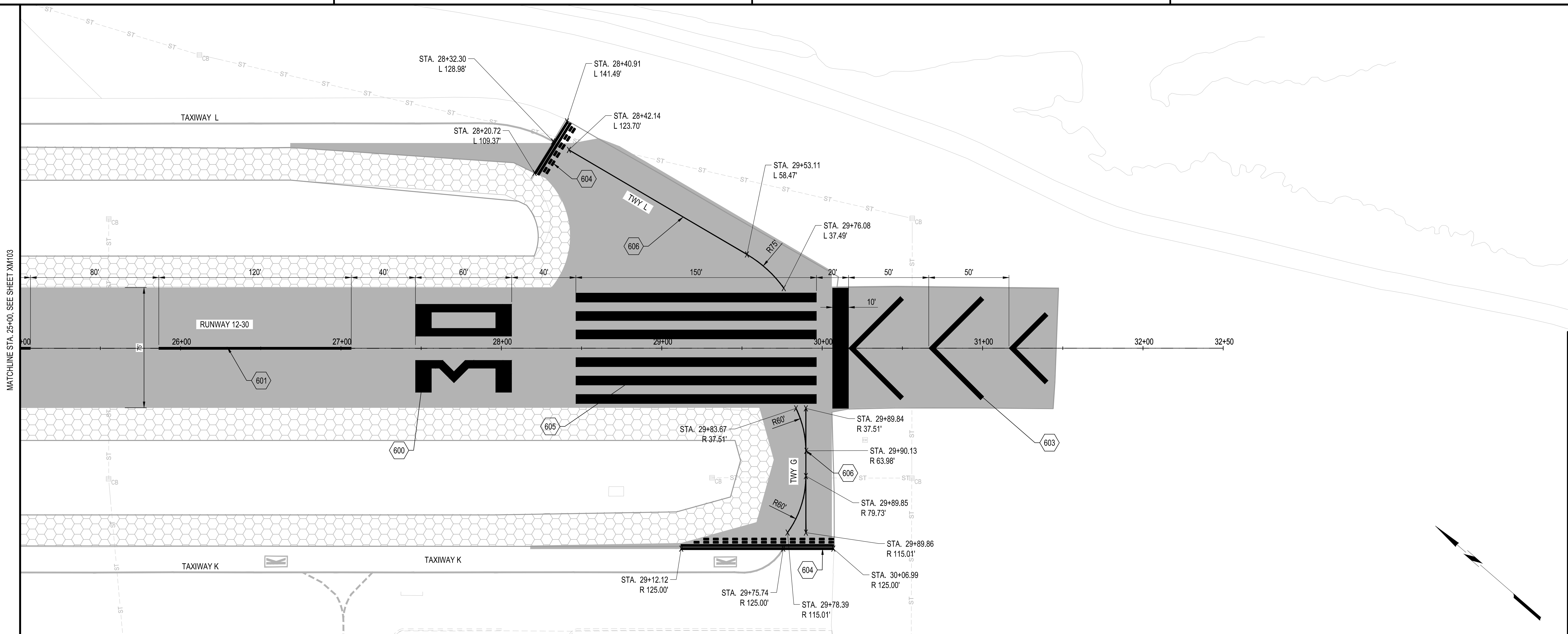
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SCALE: 1" = 30'

DATE: JANUARY 2023

FILE NO.: 15077

XM103
SHEET 33 OF 53



B1

MARKING PLAN

SCALE: 1" = 30'



600. RUNWAY LANDING DESIGNATOR MARKING, WHITE, ITEM P-620. SEE DETAIL A1/XM501.
601. RUNWAY CENTERLINE MARKING, 18" WIDE, WHITE WITH 6" BLACK BORDER (TYP.), ITEM P-620.
603. RUNWAY 30 END CHEVRON MARKING, YELLOW WITH 6" BLACK BORDER, ITEM P-610. SEE DETAIL B2/XM501.
604. RUNWAY HOLDING POSITION MARKING, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL C1/XM501.
605. RUNWAY THRESHOLD MARKING, WHITE, ITEM P-620. SEE DETAIL C2/XM501.
606. TAXIWAY CENTERLINE MARKING, 6" WIDE, YELLOW WITH 6" BLACK BORDER, ITEM P-620. SEE DETAIL B3/XM501.

- NOTES:
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 - REFLECTIVE MEDIA SHOULD NEVER BE USED IN BLACK PAINT.

A1

KEYED NOTES

SCALE: NOT TO SCALE

A2

GENERAL NOTES

SCALE: NOT TO SCALE

A3

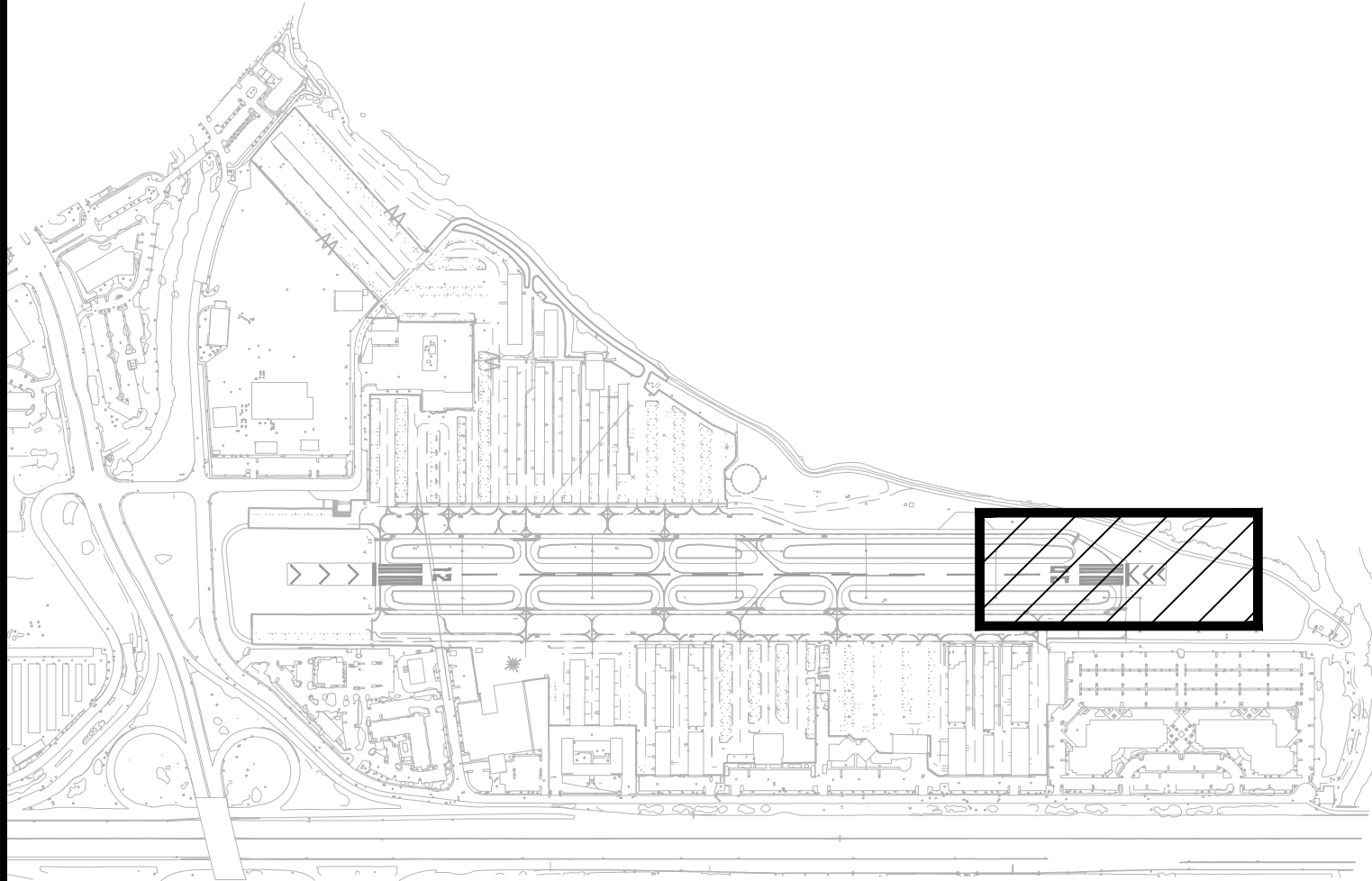
NOT USED

SCALE: NOT TO SCALE

A4

KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

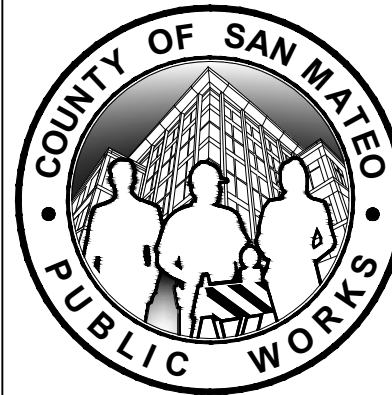
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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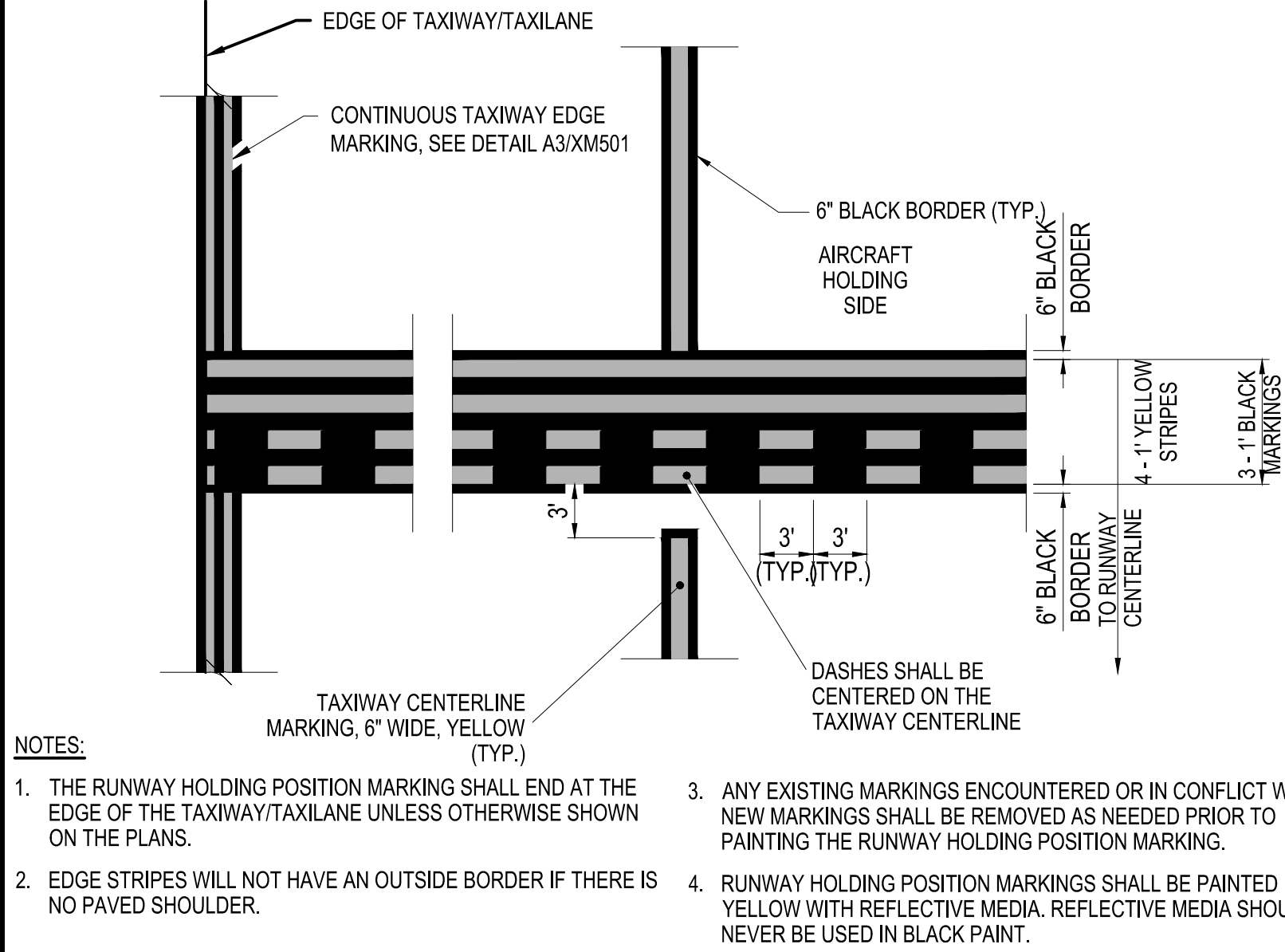


APPROVED DATE: 01-27-2023

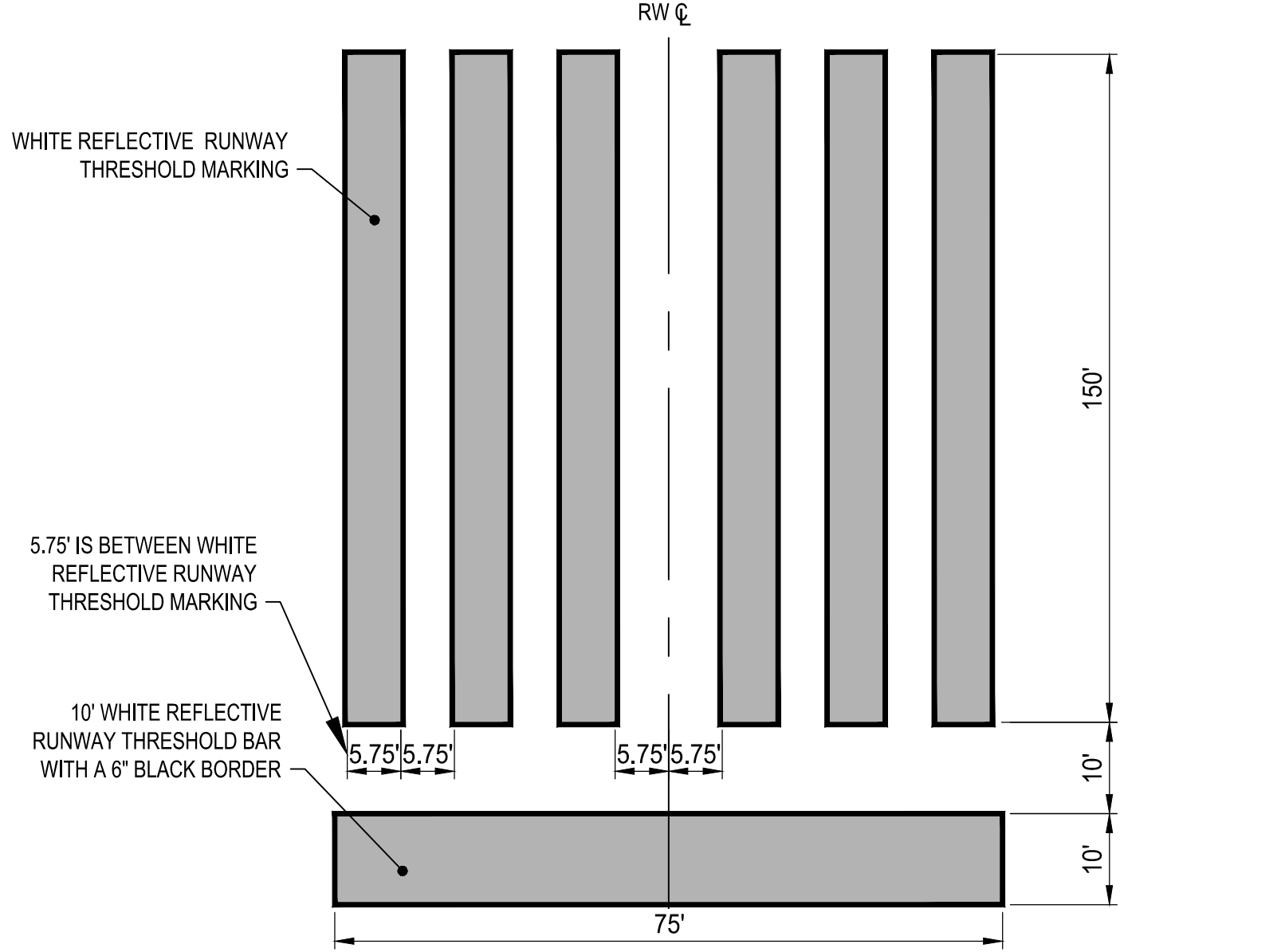
TEDDY D. RAMIL
C&S ENGINEERS, INC.
R.C.E. # C063590 EXPIRES 09-30-2024



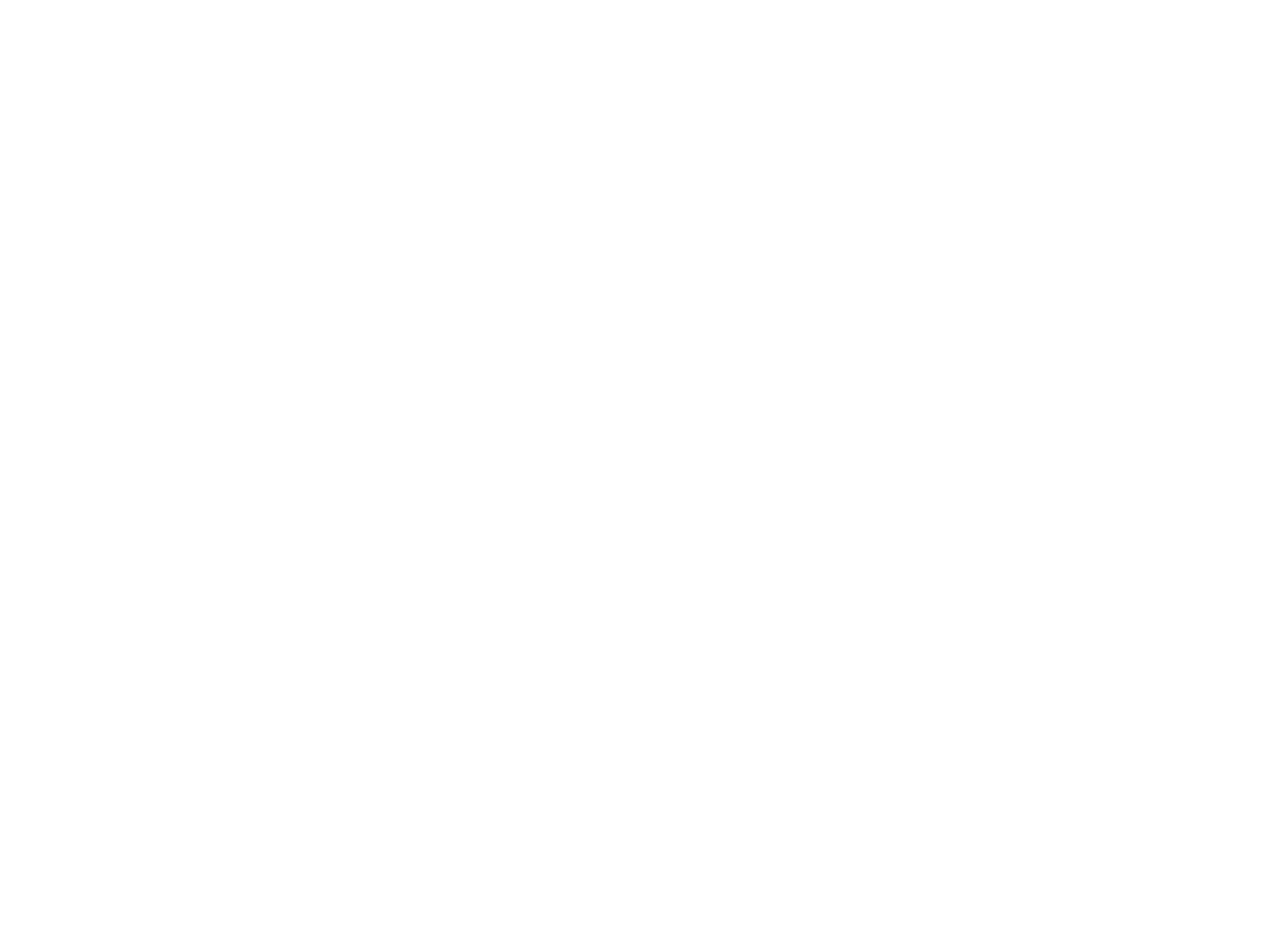
DESIGNED BY: E.A. (CAS)		MARKING PLAN		SCALE: 1" = 30'
CHECKED BY: D.M. (CAS)		RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		DATE: JANUARY 2023
DRAWN BY: E.A. (CAS)		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		FILE NO.: 15077
REVISION		DATE		
		SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		XM104 SHEET 34 OF 53



C1 RUNWAY HOLDING POSITION MARKING DETAIL
SCALE: NOT TO SCALE



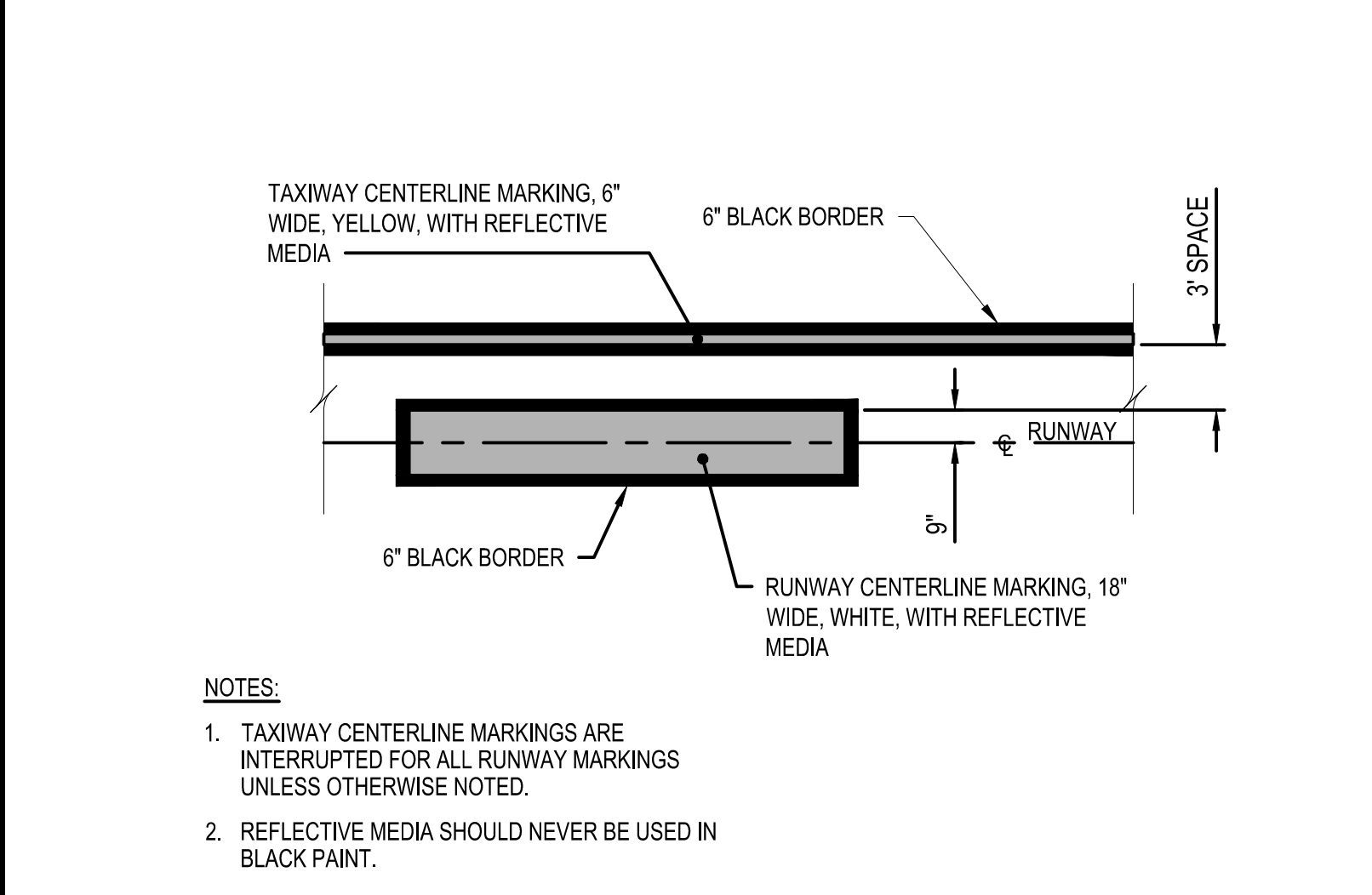
C2 RUNWAY THRESHOLD MARKING DETAIL
SCALE: NOT TO SCALE



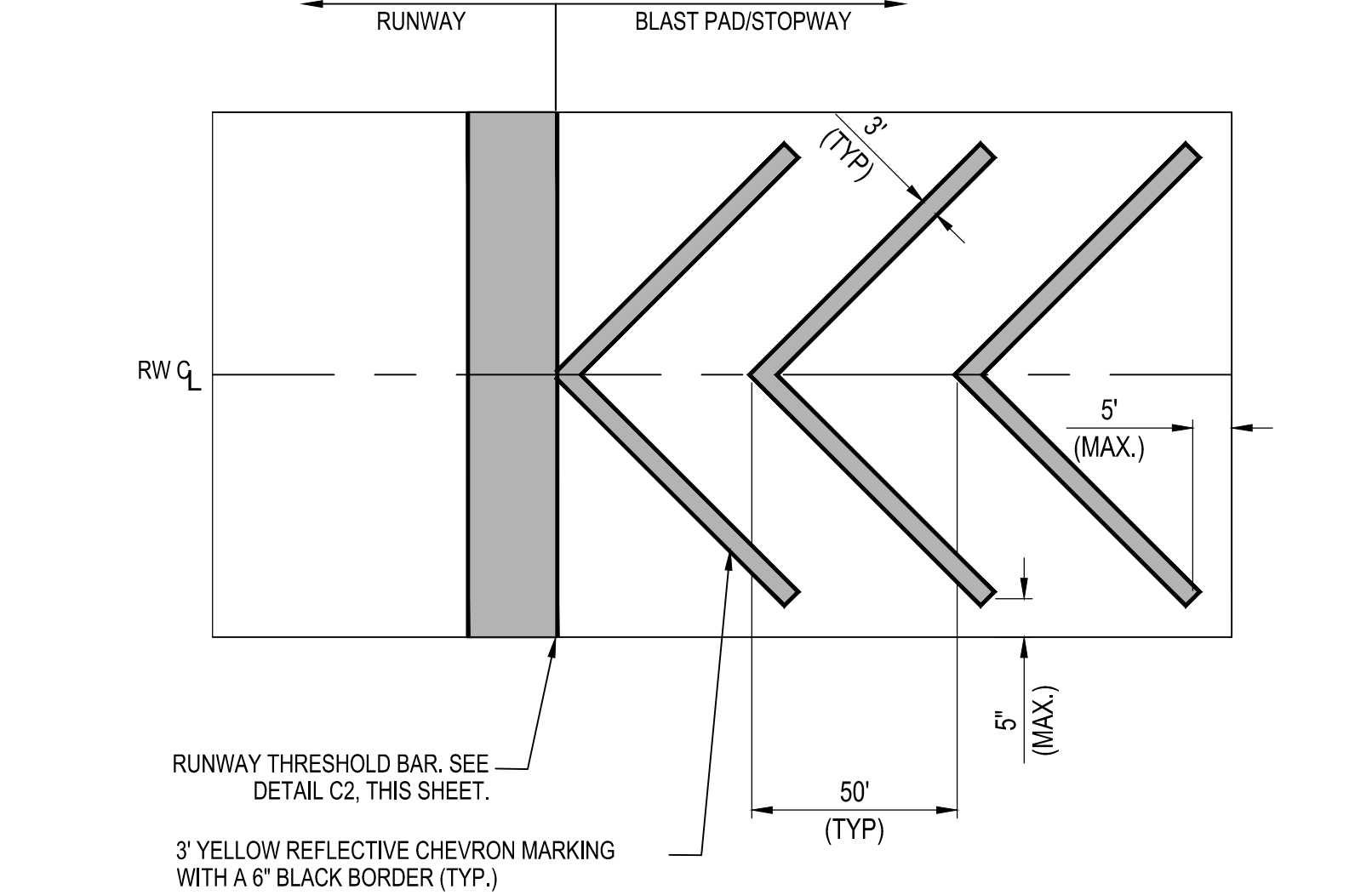
C3 NOT USED
SCALE: NOT TO SCALE



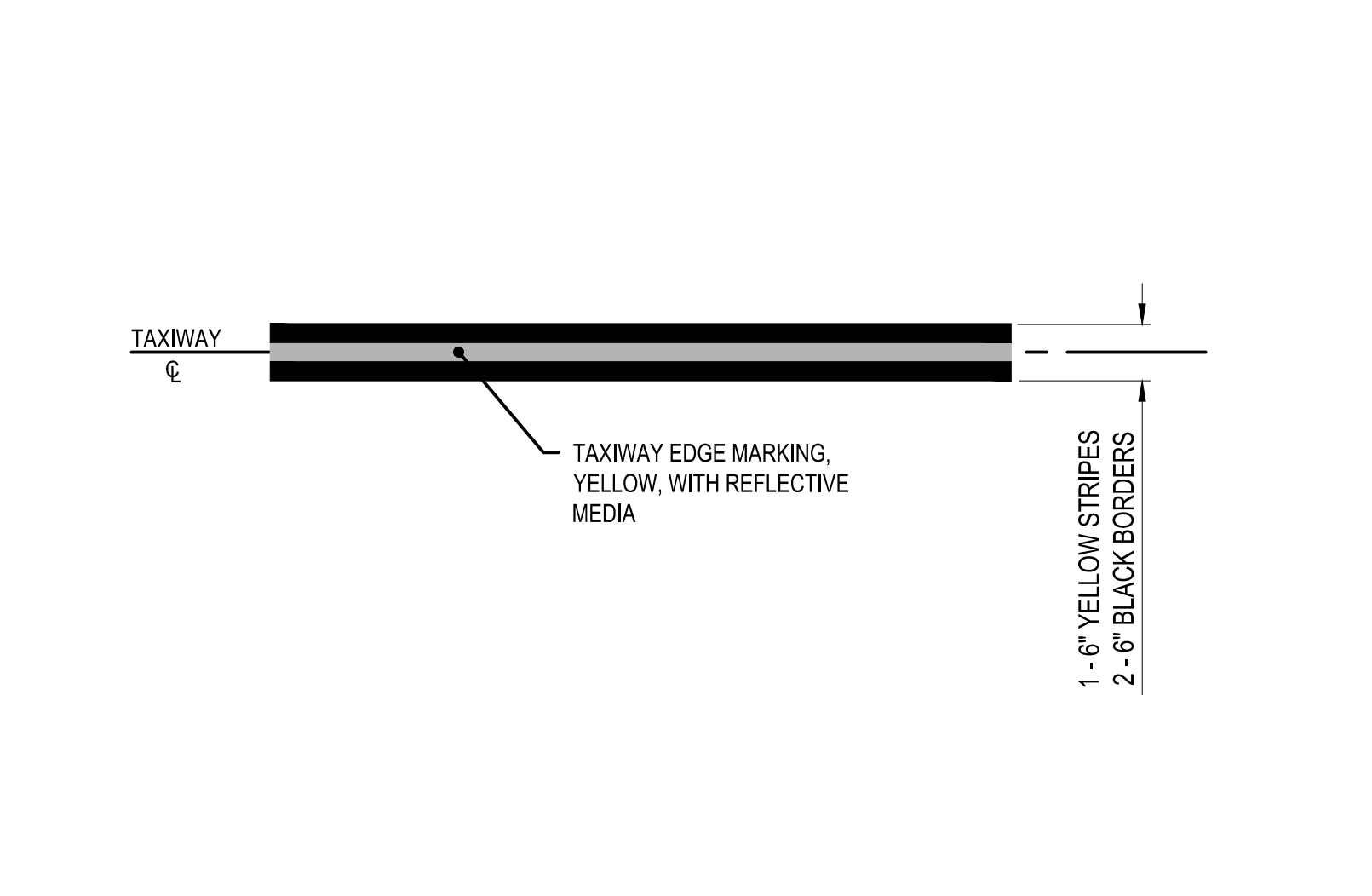
C4 NOT USED
SCALE: NOT TO SCALE



B1 CENTERLINE MARKING SEPARATION DETAIL
SCALE: NOT TO SCALE



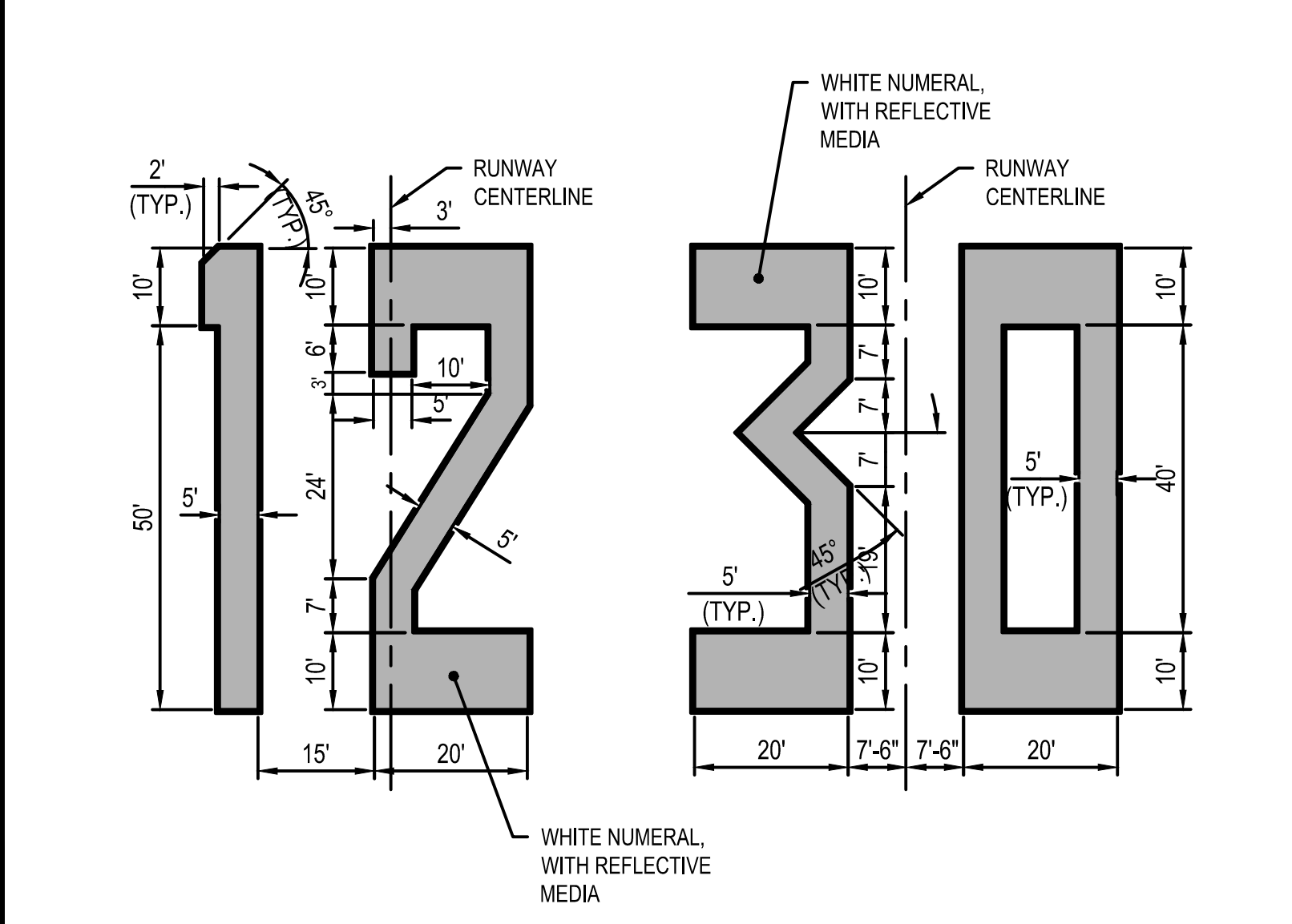
B2 RUNWAY 30 CHEVRON MARKING DETAIL
SCALE: NOT TO SCALE



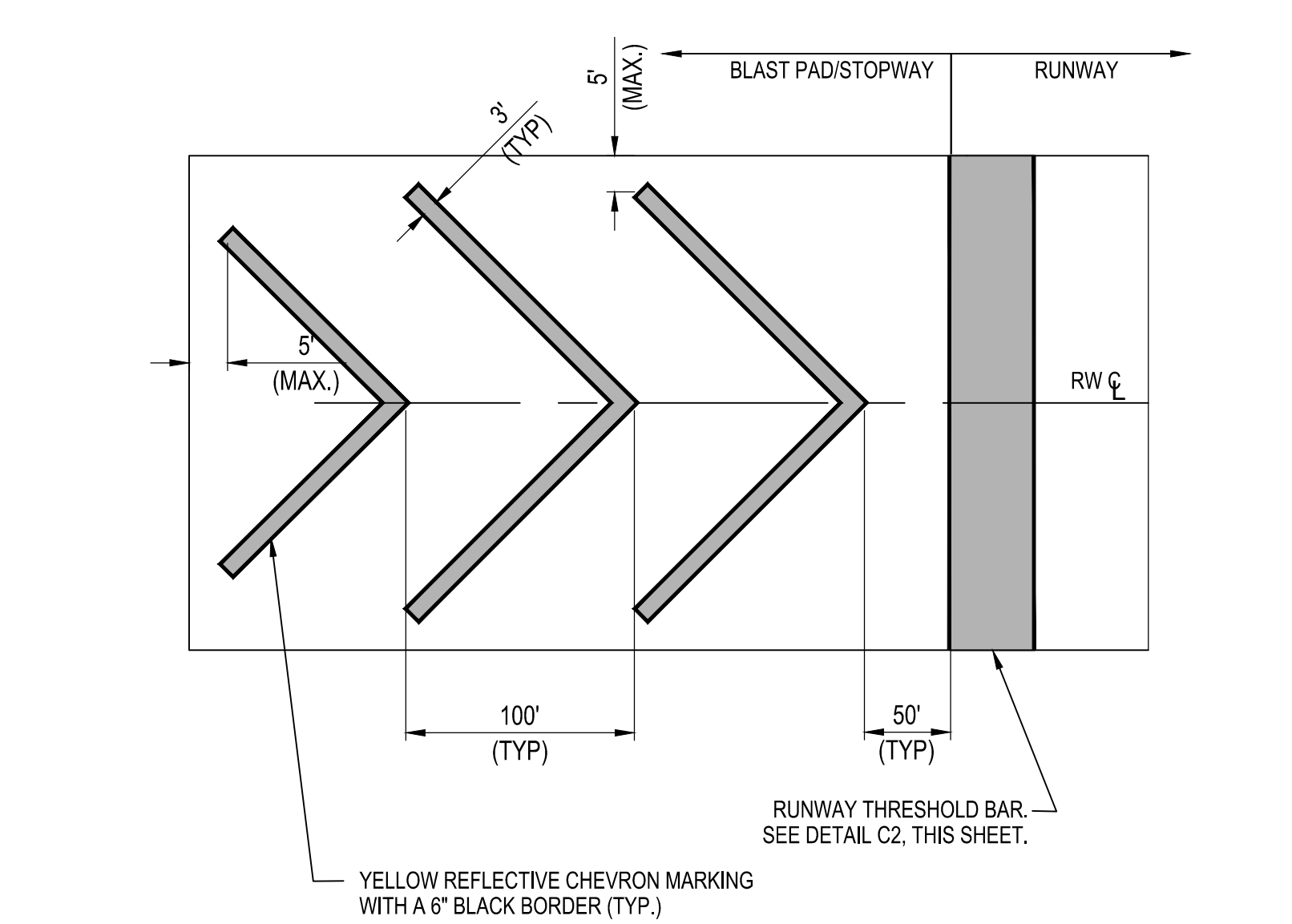
B3 TAXIWAY CENTERLINE MARKING DETAIL
SCALE: NOT TO SCALE



B4 NOT USED
SCALE: NOT TO SCALE



A1 RUNWAY LANDING DESIGNATOR MARKING DETAIL
SCALE: NOT TO SCALE



A2 RUNWAY 12 CHEVRON MARKING DETAIL
SCALE: NOT TO SCALE



A3 NOT USED
SCALE: NOT TO SCALE




A4 NOT USED
SCALE: NOT TO SCALE

<div>1. THE CONTRACTOR SHALL ENSURE THAT ALL NECESSARY ELECTRICAL CIRCUITS ARE DE ENERGIZED PRIOR TO COMMENCING WORK. A "LOCKOUT/TAGOUT" PROCEDURE SHALL BE IMPLEMENTED AT THE ELECTRICAL VAULT THAT IS ACCEPTABLE TO THE OWNER AND THE CONTRACTOR. THE AIR TRAFFIC CONTROL TOWER (ATCT) PERSONNEL SHALL BE NOTIFIED OF THE "LOCKOUT/TAGOUT" PROCEDURE SO THAT NO CIRCUIT CAN BE ACTIVATED REMOTELY FROM THE ATCT DURING THE CONTRACTORS WORK. THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT ELECTRICIAN ON A DAILY BASIS FOR AFFECTED CIRCUITS.</div> <div>2. ONE WEEK PRIOR TO EXCAVATING IN ANY AREA, THE CONTRACTOR SHALL HAVE AN APPROVED UTILITY LOCATING SERVICE LOCATE AND MARK OUT ALL UTILITIES. THE CONTRACTOR SHALL MEET WITH AIRPORT OPERATIONS AND THE RPR TO DETERMINE TAXIWAY OR RUNWAY CLOSURE TIMES AND DURATIONS FOR THE LOCATING TASKS. CONTRACTOR SHALL PERFORM SITE INVESTIGATIONS TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES AS NECESSARY. INVESTIGATION TECHNIQUES MAY INCLUDE BY RF TRACING, GROUND PENETRATING RADAR, VACUUM OR AIR PRESSURE POT-HOLING OR BY OTHER MEANS APPROVED BY THE RPR. CONTRACTOR SHALL ACCURATELY RECORD AND MARK THE LOCATION OF ALL UTILITIES. ALL MARKERS SHALL BE APPROVED BY AIRPORT OPERATIONS AND CANNOT PRESENT A HEIGHT OBSTRUCTION OR FOREIGN OBJECT DEBRIS HAZARD TO AIRCRAFT (DISLODGE DUE TO WIND). THE CONTRACTOR SHALL VERIFY THE ROUTING OF ALL EXISTING CABLES AND NOTIFY THE RPR IF DISCREPANCIES EXIST TO THE ROUTING SHOWN ON THE CONTRACT DRAWINGS. ADVANCE NOTICE WILL ALLOW THE RPR TO MODIFY THE DESIGN PRIOR TO CONSTRUCTION.</div> <div>3. ALL INTERRUPTIONS OF TAXIWAY OR RUNWAY LIGHTING SHALL BE COORDINATED WITH AIRPORT OPERATIONS AND SHALL BE SUBJECT TO THE APPROVAL OF AIRPORT OPERATIONS.</div> <div>4. ALL AIRFIELD LIGHTING CIRCUITS SHALL BE MAINTAINED BY THE CONTRACTOR DURING OPERATIONAL PERIODS. ALL SIGNS AND LIGHTS SHALL BE ILLUMINATED AT THE END OF EACH WORK SHIFT. TEMPORARY ELECTRICAL JUMPERS WILL BE REQUIRED AND SHALL BE APPROVED BY THE RPR. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN WHATEVER TEMPORARY CABLES MAY BE NECESSARY TO KEEP THE TAXIWAYS AND RUNWAYS IN OPERATING CONDITION WHEN OPEN FOR AIRCRAFT.</div> <div>5. THE CONTRACTOR SHALL PROVIDE FINAL RED LINE AS BUILT DRAWINGS UPON COMPLETION OF THE PROJECT. RED LINE AS-BUILT DRAWINGS SHALL IDENTIFY LOCATIONS OF ALL PERMITTED IN-LINE SPLICES. IDENTIFICATION OF CABLE SPLICES AT LIGHT AND SIGN L-823 CABLE CONNECTOR KITS ARE NOT REQUIRED TO BE SHOWN.</div> <div>6. THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON RECORD DRAWINGS AND/OR CAD FILES FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THOSE UTILIZING THE INFORMATION ON THESE DRAWINGS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.</div> <div>7. EXISTING UTILITIES WERE TAKEN FROM PLANS OF RECORD. THEY HAVE BEEN SHOWN TO THE EXTENT KNOWN AND ARE OFFERED IN GOOD FAITH SOLELY FOR INFORMATIONAL PURPOSES. THEY MAY NOT REFLECT ACTUAL LOCATIONS AND MAY NOT BE INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.</div> <div>8. THE CONTRACTOR SHALL BE AWARE THAT ABANDONED DIRECT BURIED CABLES AND LIGHT BASE FOUNDATIONS MAY BE ENCOUNTERED WHILE TRENCHING AND EXCAVATION. ALL EXCAVATED CABLES AND LIGHT BASES SHALL BE REMOVED AND DISPOSED OF OFF SITE AT THE CONTRACTOR EXPENSE. ALL VOIDS SHALL BE PROPERLY BACKFILLED WITH ON SITE SOIL.</div> <div>9. THE ACTUAL LOCATION AND ELEVATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.</div> <div>10. IN THE EVENT OF DAMAGE TO EXISTING UTILITIES OR CABLES, THE RPR AND OWNER SHALL BE NOTIFIED IMMEDIATELY.</div> <div>11. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO UTILITIES OR CABLES, AS DIRECTED BY THE RPR, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.</div> <div>12. ALL AREAS DISTURBED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE RESTORED EQUAL TO OR BETTER THAN ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.</div> <div>13. SELECTIVE GRADING AROUND LIGHTS AND SIGNS SHALL BE REQUIRED AS DIRECTED BY THE RPR. THE COST SHALL BE INCLUDED IN THE RESPECTIVE ELECTRICAL PAY ITEM.</div> <div>14. ALL ELECTRICAL WORK SHALL CONFORM TO FEDERAL AVIATION ADMINISTRATION SPECIFICATIONS AND APPLICABLE LOCAL, STATE AND NATIONAL ELECTRICAL CODES.</div> <div>15. THE ELECTRICAL CHARACTERISTICS OF PROPOSED EQUIPMENT SHALL BE VERIFIED TO BE COMPATIBLE WITH EXISTING EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.</div> <div>16. ABANDONED CABLES MAY EXIST IN THE VICINITY OF THE PROPOSED WORK. IF ENCOUNTERED, CONTRACTOR SHALL VERIFY THAT THEY ARE ABANDONED PRIOR TO REMOVAL. NON USED DIRECT BURIED CABLES SHALL BE ABANDONED IN PLACE, INCIDENTALLY REMOVED IN PROJECT EXCAVATION, OR REMOVED FROM DUCT BANKS AND/OR CONDUITS.</div>	<div>17. ITEMS OF SPECIFIC MANUFACTURE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND OR MANUFACTURER'S REPRESENTATIVE DIRECTIONS.</div> <div>18. ALL GROUND CONNECTIONS SHALL BE MADE USING EXOTHERMIC CONNECTIONS.</div> <div>19. ALL CABLE CONNECTIONS SHALL BE MADE AT LIGHT UNITS, JUNCTION CANS, PULL BOXES, MANHOLES OR SIGNS UNLESS DIRECTED OTHERWISE. CABLE SPLICING ALONG THE CONDUIT RUNS OR WITHIN CONDUITS IS NOT ALLOWED. ALL CABLES SHALL BE CONTINUOUS WITHOUT SPLICES, INCLUDING HOME RUN CIRCUITS, UNLESS OTHERWISE APPROVED.</div> <div>20. PROVIDE WATERTIGHT TERMINATION AND END CAP FOR ALL BURIED CONDUIT ENDS.</div> <div>21. ALL RUNWAY AND TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10 FEET OFF THE DEFINED PAVEMENT EDGE UNLESS OTHERWISE NOTED OR DIRECTED. THE CONTRACTOR SHALL ALIGN ALL LIGHTS ON TANGENT SECTIONS SUCH THAT THEY FORM A STRAIGHT LINE. LIGHTS AROUND RADIUS SHALL BE EVENLY SPACED. THE CONTRACTOR SHALL NOT SOLELY RELAY ON THE CAD FILES FOR LAYOUT AND SHALL CONFIRM AND VALIDATE THE SPACING AND SETBACK REQUIREMENTS PRIOR TO FINAL INSTALLATION.</div> <div>22. ALL LIGHT BASES SHALL HAVE A MINIMUM OF TWO CONDUIT STUBS SPACED 180 DEGREES APART. ANOTHER STUB AT 90 DEGREES IS REQUIRED FOR DRAIN PIPES AT THE LOCATIONS IDENTIFIED ON THE PLANS. CAP CONDUIT STUB IF IT IS NOT OCCUPIED. ADDITIONAL CONDUIT STUBS MAY BE REQUIRED, SEE PLANS FOR LOCATIONS.</div> <div>23. ANY EQUIPMENT AND MATERIALS THAT ARE TEMPORARILY REMOVED, AND TO BE RE-USED, SHALL BE STORED IN A SAFE LOCATION AND PROTECTED FROM THE ENVIRONMENT. DAMAGE TO ANY STORED EQUIPMENT AND MATERIAL THAT IS SCHEDULED TO BE REINSTALLED SHALL BE REPLACED IN-KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.</div> <div>24. SOME EXISTING MANHOLES, JUNCTION CANS, PULL BOXES, CONDUITS AND DUCT BANKS WHERE WORK IS SCHEDULED TO OCCUR MAY CONTAIN ADDITIONAL ENERGIZED CABLES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT MEN AND EQUIPMENT AS WELL AS TO MAINTAIN EXISTING CIRCUITS ASSOCIATED WITH ACTIVE AND OPEN PAVEMENTS.</div> <div>25. THE CONTRACTOR IS ENCOURAGED TO USE PRECAST LIGHT BASES, SIGN FOUNDATIONS AND ELECTRICAL STRUCTURES WHERE EVER POSSIBLE. IN GENERAL, IN-PAVEMENT LIGHT BASES MUST BE CAST IN PLACE.</div> <div>26. THE CONTRACTOR SHALL MARK OUT ALL PROPOSED PROJECT FEATURES FOR THE RPR'S APPROVAL PRIOR TO EXCAVATION AND FOUNDATION INSTALLATION. LAYOUT SHALL BE MADE BY A LICENSED LAND SURVEYOR. OFFSET PINS MAY BE INSTALLED TO TRIANGULATE TO THE PROPOSED FEATURE AFTER EXCAVATION.</div> <div>27. IN THE EVENT ANY OBSTRUCTIONS AND/OR UTILITIES NOT SHOWN ON THE PLANS ARE ENCOUNTERED DURING CONSTRUCTION, AND ARE DEEMED TO BE CONFLICTS TO THE NEW WORK, ALL WORK SHALL STOP (ON THAT ITEM) AND THE RPR NOTIFIED PRIOR TO PROCEEDING WITH WORK. WORK MAY PROCEED ON OTHER WORK TASKS TO MAINTAIN SCHEDULE.</div> <div>28. ROUTING OF CONDUIT IS DIAGRAMMATIC AND CONCEPTUAL IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS. EXACT ROUTING WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE RPR.</div> <div>29. NO IN-LINE SPLICES SHALL BE PERMITTED ON AIRFIELD CABLES UNLESS COORDINATED IN ADVANCE AND APPROVED OR SHOWN ON THE PLANS. THIS INCLUDES HOMERUN CIRCUITS.</div> <div>30. IN AREAS WHERE PROPOSED CONDUIT IS DESIGNED TO BE INSTALLED AT A LOCATION WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE THE EXISTING CONDUIT. CONDUIT REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED CONDUIT.</div> <div>31. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 FEET OF COILED CABLE SLACK IN EVERY ELECTRICAL STRUCTURE AND LIGHT BASE. THE SLACK WILL BE USED TO BRING THE TRANSFORMER AND CONNECTORS A MINIMUM OF 3 FEET ABOVE THE GROUND SURFACE FOR MAINTENANCE AND ALLOW FOR FUTURE CABLE SPLICE REPAIRS. PAYMENT WILL BE MADE UNDER ITEM L-108, LINEAR FOOT.</div> <div>32. THE RETURN CABLE CONNECTED TO EVERY LIGHT TRANSFORMER SHALL BE WRAPPED IN RED TAPE AS APPROVED BY THE RPR.</div> <div>33. FINE GRADING SHALL INCLUDE CREATING A SMOOTH STABLE UNIFORM SURFACE WITH TOPSOIL TO SUPPORT TURF GROWTH. ALL AREAS SHALL BE RAKED OR OTHERWISE CLEARED OF STONES AND OTHER MATERIAL LARGER THAN 1" IN ANY DIAMETER. SURFACES MUST MEET TSA/RSA STANDARDS AND SAFELY ACCOMMODATE THE AIRPORTS MOWING EQUIPMENT.</div> <div>34. THE LOCATION OF JUNCTION CANS AND CONDUITS MAY BE FIELD ADJUSTED TO AVOID CONFLICTS AS APPROVED BY THE RPR AND ENGINEER.</div>	<div>35. SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE FOR CABLE REMOVAL FOR THOSE CONDUITS AND DUCT BANKS SCHEDULED FOR REUSE AND PAID UNDER ITEM L-110. THE LINEAR FOOT PAYMENT ITEM IS MEASURED BY CONDUIT, REGARDLESS OF THE NUMBER OF CABLES WITHIN THE CONDUIT. CONDUITS MAY BE INDIVIDUAL OR MULTIPLE CONSTRAINED WITHIN A DUCT BANK. CABLE REMOVAL SHALL NOT BE PAID FOR SEPARATELY IN CASES WHERE THE CONDUIT IS BEING EXCAVATED. WHERE CONDUITS (WITH CABLES) FALL WITHIN THE PROJECT EXCAVATION LIMITS, THE COST FOR REMOVING AND DISPOSING OF BOTH CABLE AND CONDUIT SHALL BE INCIDENTAL TO ITEM P-152 EXCAVATION.</div> <div>36. THE FINAL GRADE SHALL BE SMOOTH, FREE OF RUTS, DEPRESSIONS OR DROP OFFS. THE CRUSHED AGGREGATE SHALL MEET THE FINISHED GRADE OF ALL LIGHTS, SIGNS AND OTHER FEATURES AND BE PLACED WITH NO VERTICAL DROPS ALLOWED. CRUSHED AGGREGATE SHALL BE GRADED SLIGHTLY AWAY FROM ELECTRICAL FEATURES INCLUDING LIGHTS AND SIGNS WITH A MAXIMUM ALLOWABLE SLOPE OF 3.0 PERCENT, IN COMPLIANCE WITH RUNWAY AND TAXIWAY SAFETY AREA GRADING REQUIREMENTS. THE FINISH SURFACE SHALL BE LEFT IN A MANNER TO SAFELY ACCOMMODATE THE OWNERS FINISH MOWING EQUIPMENT AS APPROVED BY THE OWNER. AREAS THAT SETTLE OUT FROM TRENCH SETTLEMENT OVER THE ONE-YEAR WARRANTY PERIOD SHALL BE RE-TOPSOILED, SEEDED AND MULCHED TO RESTORE THE INTENDED GRADE.</div> <div>37. ALL CONDUIT CONNECTIONS TO EXISTING LIGHT UNITS, DUCT BANKS OR SIGNS SHALL BE MADE WITH INDUSTRY STANDARD UL LISTED WATERTIGHT CONNECTORS. ALL NECESSARY SWEEPS SHALL BE MADE WITH PRE-FORMED SWEEPS OR CONDUIT BENT ON-SITE USING APPROVED CONDUIT HEATING EQUIPMENT (HOT BOX). ALL CONNECTIONS SHALL BE INCIDENTAL TO ITEM L-110 PAYMENT ITEMS.</div> <div>38. ALL DIRT, DUST, STONES AND LOOSE DEBRIS SHALL BE CONTINUOUSLY REMOVED FROM ALL PAVED SURFACES DURING THIS CONTRACT.</div> <div>39. THE CONTRACTOR SHALL VERIFY ALL INPUT VOLTAGES, AMPERAGE AND OTHER ELECTRICAL CHARACTERISTICS FOR REPLACEMENT TRANSFORMERS, REGULATORS, ETC. PRIOR TO ORDERING THE EQUIPMENT.</div> <div>40. IT IS THE INTENT OF THIS CONTRACT TO HAVE A WELL DRAINED, WATER FREE UNDERGROUND ELECTRICAL SYSTEM INCLUDING ALL ELECTRICAL STRUCTURES. ALTHOUGH WATERTIGHT CONNECTORS ARE SPECIFIED, THE JOINTS AND COUPLINGS WILL LEAK IN WATER AND THEREFORE IS CLASSIFIED AS A "WET SYSTEM". ELECTRICAL DRAINS HAVE BEEN DESIGNED INTO THE PROJECT TO DRAIN INCOMING WATER. ADDITIONAL DRAINS, ABOVE AND BEYOND THOSE SHOWN ON THE PLANS, MAY BE REQUIRED TO MEET THIS REQUIREMENT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE RPR. PAYMENT FOR ELECTRICAL DRAINAGE SUMPS SHALL BE MADE UNDER ITEM L-110.</div> <div>41. PAVEMENT CORING IS CRITICAL TO THE CORRECT INSTALLATION OF SEMI-FLUSH IN-PAVEMENT 2-PART LIGHT BASES SPECIFIED IN THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE A TRAILER OR RIG MOUNTED CORE MACHINE CAPABLE OF CORING UP TO A 36-INCH DIAMETER HOLE THRU THE MAXIMUM DEPTH OF PAVEMENT (COORDINATE WITH THE CIVIL PAVEMENT SHEETS). HAND HELD OR FLOOR MOUNTED UNITS WILL NOT BE ACCEPTABLE. PROVIDE A SHOP DRAWING SUBMITTAL OF THE INTENDED EQUIPMENT FOR REVIEW AND APPROVAL BY THE RPR PRIOR TO CONSTRUCTION. THE UNIT PROVIDED SHALL USE DIAMOND CUTTING TEETH, BE ADJUSTABLE (TO PRECISELY CENTER THE CORE OVER THE INTENDED LIGHT LOCATION) AND BE INTENDED FOR THE APPLICATION SPECIFIED.</div> <div>42. AIRPORT OPERATIONS RESERVES THE RIGHT TO SALVAGE ANY PORTION OF THE EXISTING LIGHTING SYSTEM COMPONENTS SCHEDULED FOR DEMOLITION. THE OWNER WILL MARK AND INFORM THE CONTRACTOR OF WHAT EQUIPMENT THEY WISH TO SALVAGE PRIOR TO CONSTRUCTION, WITH A PREFERENCE ON THAT IN BEST OPERATING CONDITION. THERE IS NO GUARANTEE ON THE QUANTITY OF EQUIPMENT OR MATERIAL REQUESTED FOR SALVAGE. THE CONTRACTORS DEMOLITION PRICING SHALL INCLUDE COST PROVISIONS TO COVER SPOILING EVERYTHING OFF SITE, CAREFULLY REMOVING AND STOCKPILING EVERYTHING FOR SALVAGE, OR A COMPOSITE BLEND OF THE TWO CIRCUMSTANCES. THE OWNER MAY ELECT TO SALVAGE THE FOLLOWING EQUIPMENT: CONSTANT CURRENT REGULATORS, EDGE LIGHT ASSEMBLIES (LIGHT UNIT, LIGHT POST, TRANSFORMER, LIGHT BASE COVER), THRESHOLD LIGHT ASSEMBLIES (LIGHT UNIT, CONDUIT POST, TRANSFORMER, LIGHT BASE COVER), GUIDANCE SIGN ASSEMBLIES (SIGN HOUSING, PANELS, LEGS, FLOOR FLANGES), CABLE, ELECTRICAL POWER AND CONTROL EQUIPMENT. THE CONTRACTOR SHALL SEPARATE USEABLE EQUIPMENT FROM UNUSABLE EQUIPMENT. THE EQUIPMENT TO BE SALVAGED SHALL BE CAREFULLY REMOVED BY THE CONTRACTOR, TRANSPORTED AND STOCKPILED AT A LOCATION DESIGNATED BY THE OWNER IN PROPER WORKING CONDITION. ALL OTHER MATERIALS SHALL BE SPOILED OFF AIRPORT PROPERTY AT A PROPER DISPOSAL SITE AT THE CONTRACTOR EXPENSE.</div> <div>43. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AN EFFECTIVE SAFETY PROGRAM. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL EMPLOYEES, REGARDLESS OF POSITION. SAFETY MUST BE PRACTICED DAILY IN EVERY WORK TASK FOLLOWING ALL INDUSTRY STANDARD AND OSHA REGULATIONS. AIRPORT LIGHTING CIRCUITS ARE, BY THEIR NATURE, VERY DANGEROUS AND REQUIRE SPECIALIZED TRAINING ON THEIR FUNCTIONALITY. AIRFIELD CIRCUITS RELAY ON CONSTANT CURRENT AND VOLTAGE METER READINGS CANNOT BE RELIED UPON AS PORTIONS OF THE CIRCUIT MAY READ NEAR ZERO VOLTS.</div>	<div>44. AT A MINIMUM, THE FOLLOWING SAFETY PRACTICES SHOULD BE FOLLOWED BY ALL PERSONNEL:</div> <div><div>- ENSURE THAT ALL PERSONNEL ARE TRAINED AND FAMILIAR WITH ELECTRICAL SAFETY.</div><div>- STRICTLY OBSERVE SAFETY RULES. RULES SHALL BE LISTED IN THE CONTRACTOR SAFETY PLAN AND INCLUDE PERSONAL SAFETY PRECAUTIONS.</div><div>- ENSURE THAT ALL TEST AND SERVICE EQUIPMENT IS UL APPROVED AND RATED FOR THE CURRENT AND VOLTAGES EXPECTED.</div><div>- PRIOR TO BEGINNING ANY ELECTRICAL WORK, COORDINATE THE WORK SCHEDULE WITH AIRPORT OPERATIONS AND THE RPR. MAKE SURE CIRCUITS WILL NOT BE ENERGIZED DURING WORK BY OBSERVING STRICT LOCK OUT- TAG OUT PROCEDURES.</div><div>- AT LEAST TWO ELECTRICIANS SHOULD BE ASSIGNED WHEN WORKING ON HIGH VOLTAGE CIRCUITS, WITH AT LEAST ONE HAVING A THOUGH KNOWLEDGE OF HIGH VOLTAGE AIRFIELD LIGHTING CIRCUITS. THE SECOND PERSON'S PRIMARY RESPONSIBILITY WILL BE AN OBSERVER.</div><div>- KNOW HOW TO SUMMON IMMEDIATE EMERGENCY AND MEDICAL AID.</div><div>- PROVIDE A SAFETY NOTICE BOARD AND ALL NECESSARY SAFETY EQUIPMENT.</div></div> <div>45. THE BASIC RULES APPLICABLE WHEN WORKING AROUND AIRFIELD LIGHTING CIRCUITS INCLUDE:</div> <div><div>- ALWAYS ASSUME THAT THE CIRCUIT IS ENERGIZED, OR CAN BE ENERGIZED BY REPORT CONTROL, UNTIL PROVEN OTHERWISE BY MECHANICAL DISCONNECTION AND LOCK OUT- TAG OUT.</div><div>- NEVER UNDER ANY CIRCUMSTANCES BREAK A LIVE CIRCUIT.</div><div>- NEVER ENTER AN ELECTRICAL STRUCTURE WITH ENERGIZED CONDUCTORS AND NEVER HANDLE LIVE CABLES WHILE THERE IS CURRENT PRESENT UNLESS SPECIAL PRECAUTIONS ARE TAKEN.</div><div>- TAKE CAUTION OF INDUCED VOLTAGES. VOLTAGES MAY BE INDUCED IN AN OTHERWISE DE-ENERGIZED CONDUCTOR FROM A NEARBY ENERGIZED CABLE.</div><div>- CONFINED SPACE ENTRY AND EXCAVATION SHORING SHALL BE GOVERNED BY OSHA REQUIREMENTS.</div></div> <div>46. THIS CONTRACT DOES NOT ALLOW FOR PRICE INCREASES DUE TO ESCALATION IN THE COST OF UNIT PRICED BID ITEMS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING UNIT PRICED ITEMS FOR BID AND MAKE CONSIDERATIONS FOR MARKET VOLATILITY.</div> <div>47. A NOMINAL QUANTITY OF SPARE LIGHT AND SIGN FIXTURES SHALL BE TURNED OVER TO THE AIRPORT AT THE COMPLETION OF THE PROJECT, NEW AND UNPACKAGED. THE LIST OF REQUESTED SPARE PARTS IS SHOWN ON THE ELECTRICAL DETAILS.</div> <div>48. THE CONTRACTOR IS ADVISED THAT SELECT ESTIMATED QUANTITIES INCLUDE BUMPS TO ACCOUNT FOR UNEXPECTED CONDITIONS DURING CONSTRUCTION. THE BUMPS RANGE UP TO 10%.</div> <div>49. THE QUANTITY OF 2-INCH HDPE CONDUIT INSTALLED BY DIRECTIONAL DRILLING, ITEM L-113 IS NOT SHOWN ON THE PLANS. THIS IS A RESERVE ITEM TO ONLY BE USED WHERE EXISTING DUCT BANKS ARE FOUND TO BE COMPROMISED AND UNUSABLE. ALL INSTANCES OF HORIZONTAL DIRECTIONAL DRILLING SHALL BE APPROVED BY THE RPR.</div> <div>50. THE QUANTITY OF ELECTRICAL JUNCTION CANS, ITEM L-115, INCLUDES 6 EACH WHICH WILL ONLY BE USED WHEN APPROVED BY THE RPR. THIS RESERVE QUANTITY OF JUNCTION CANS IS INTENDED TO TERMINATE THE ENDS OF ANY HORIZONTAL DIRECTIONAL DRILLING USED.</div>
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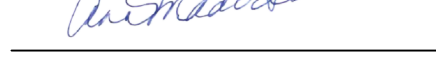
A1	ELECTRICAL NOTES	
	SCALE: NOT TO SCALE	

A4	CIRCUIT TABLE & LIGHT LENS COLOR TABLE	
	SCALE: NOT TO SCALE	



APPROVED:


DATE: 1/27/2023




ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.

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APPROVED DATE: 01-27-2023

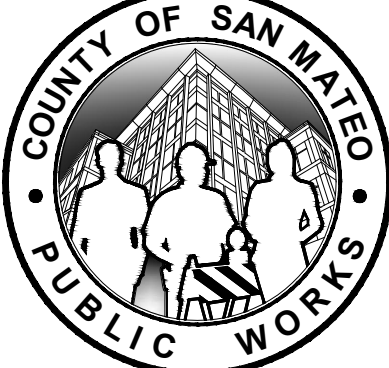


BARTON T. PETERS

C&S ENGINEERS, INC.

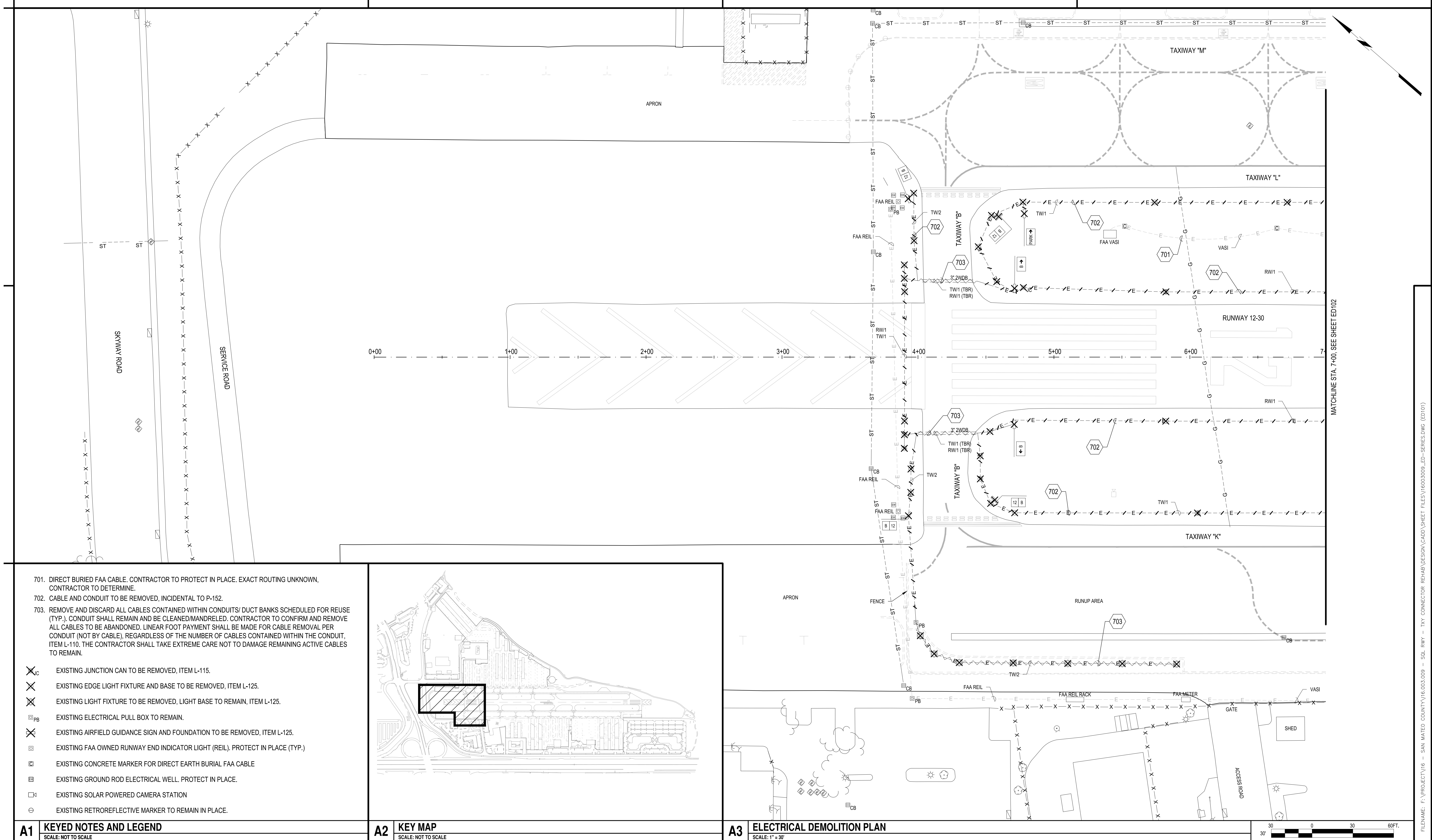
R.C.E. # E 18924 EXPIRES 12-31-2023





		DESIGNED BY: C.B.	GENERAL ELECTRICAL NOTES		SCALE: NOT TO SCALE
		CHECKED BY: D.M.			DATE: JANUARY 2023
		DRAWN BY: S.D.	RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		FILE NO.: 15077
REVISION	DATE	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
		SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		<div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>	
				E1001 SHEET 360F 53	











FILENAME: F:\PROJECT\16 - SAN MATEO COUNTY\16.003.009 - SOL RWY - TRX CONNECTOR REHAB DESIGN\CADD\ SHEET FILES\16003009_E1-SERIES.DWG (E1001)

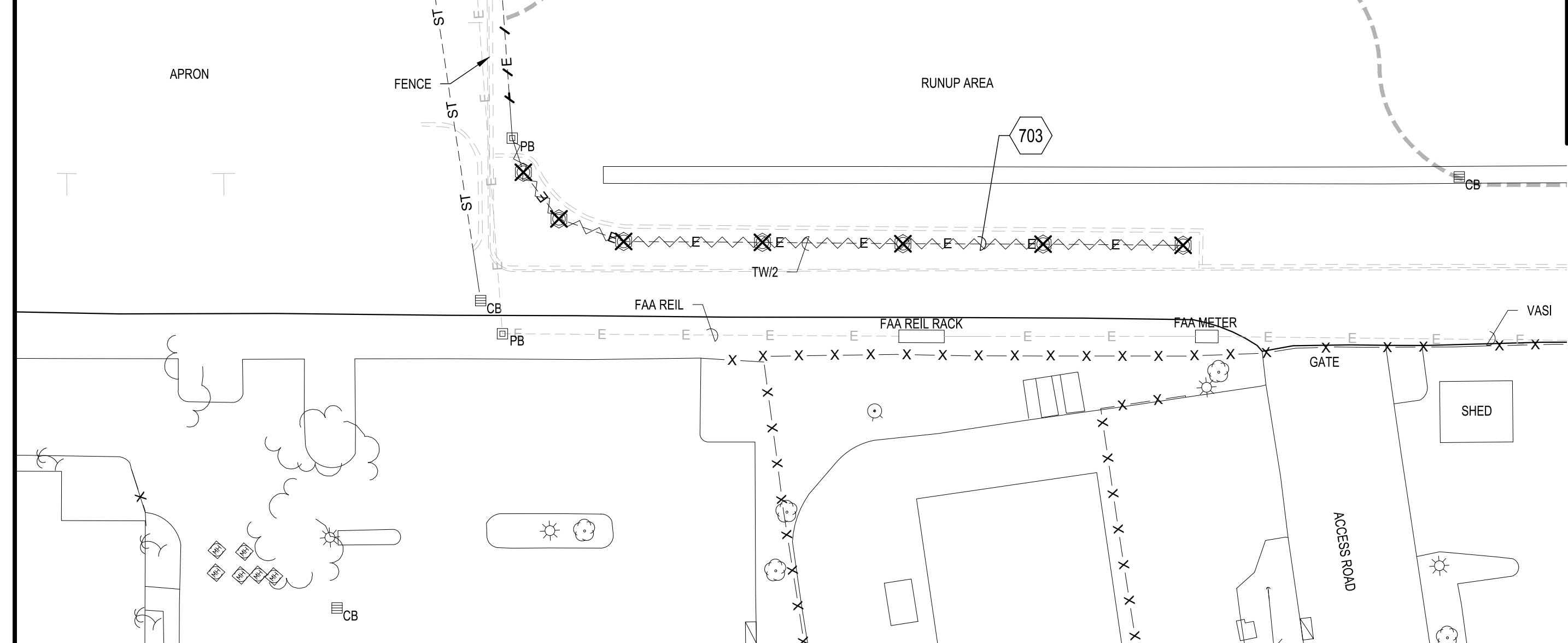
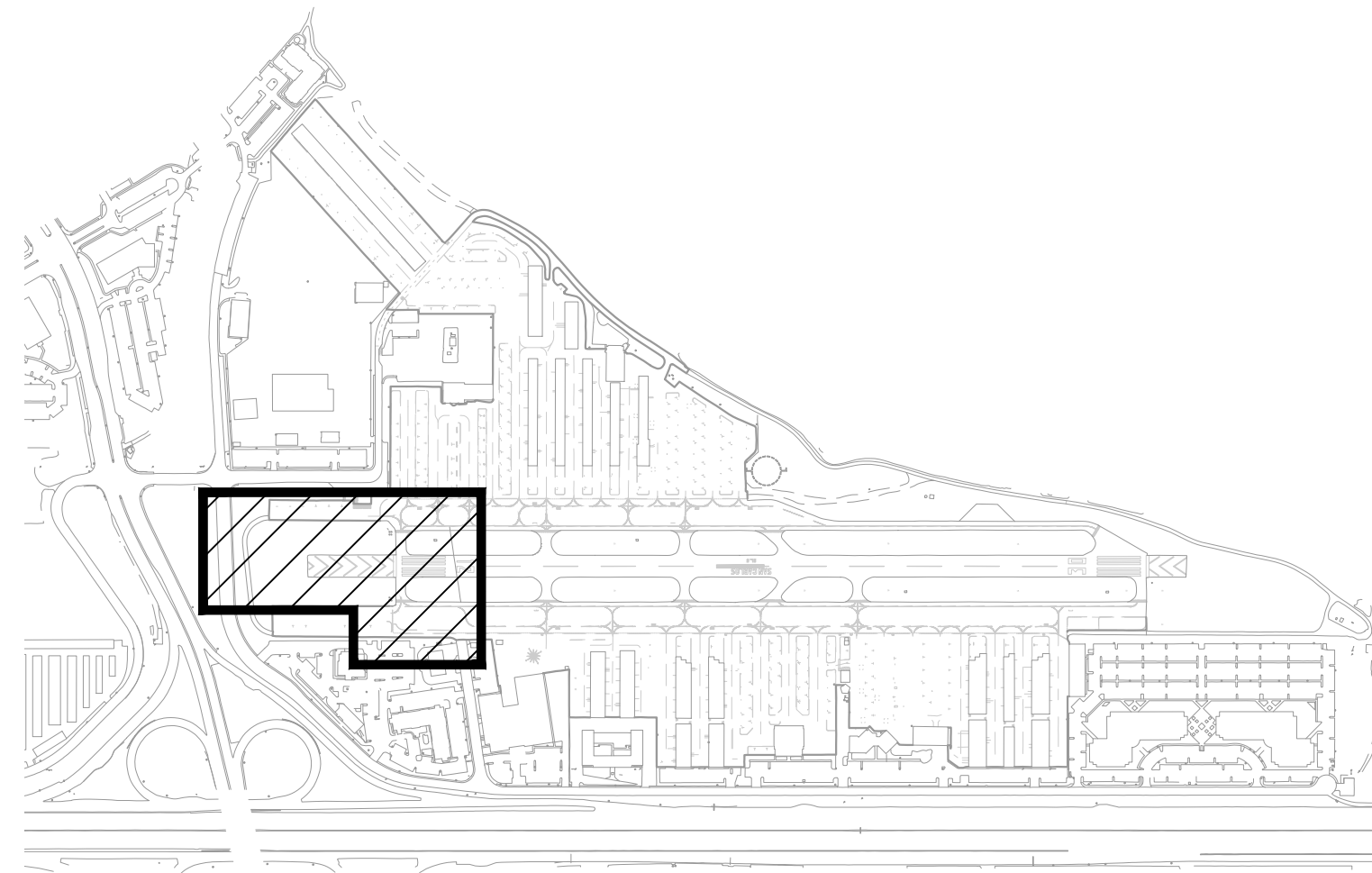


701. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. EXACT ROUTING UNKNOWN,
CONTRACTOR TO DETERMINE.

702. CABLE AND CONDUIT TO BE REMOVED, INCIDENTAL TO P-152.

703. REMOVE AND DISCARD ALL CABLES CONTAINED WITHIN CONDUITS/ DUCT BANKS SCHEDULED FOR REUSE
(TYP.). CONDUIT SHALL REMAIN AND BE CLEANED/MANDRELED. CONTRACTOR TO CONFIRM AND REMOVE
ALL CABLES TO BE ABANDONED. LINEAR FOOT PAYMENT SHALL BE MADE FOR CABLE REMOVAL PER
CONDUIT (NOT BY CABLE), REGARDLESS OF THE NUMBER OF CABLES CONTAINED WITHIN THE CONDUIT,
ITEM L-110. THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE REMAINING ACTIVE CABLES
TO REMAIN.

	EXISTING JUNCTION CAN TO BE REMOVED, ITEM L-115.
	EXISTING EDGE LIGHT FIXTURE AND BASE TO BE REMOVED, ITEM L-125.
	EXISTING LIGHT FIXTURE TO BE REMOVED, LIGHT BASE TO REMAIN, ITEM L-125.
	EXISTING ELECTRICAL PULL BOX TO REMAIN.
	EXISTING AIRFIELD GUIDANCE SIGN AND FOUNDATION TO BE REMOVED, ITEM L-125.
	EXISTING FAA OWNED RUNWAY END INDICATOR LIGHT (REIL). PROTECT IN PLACE (TYP.)
	EXISTING CONCRETE MARKER FOR DIRECT EARTH BURIAL FAA CABLE
	EXISTING GROUND ROD ELECTRICAL WELL. PROTECT IN PLACE.
	EXISTING SOLAR POWERED CAMERA STATION
	EXISTING RETROREFLECTIVE MARKER TO REMAIN IN PLACE.



A1	KEYED NOTES AND LEGEND
	SCALE: NOT TO SCALE

A2	KEY MAP
	SCALE: NOT TO SCALE

A3	ELECTRICAL DEMOLITION PLAN
	SCALE: 1" = 30'



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

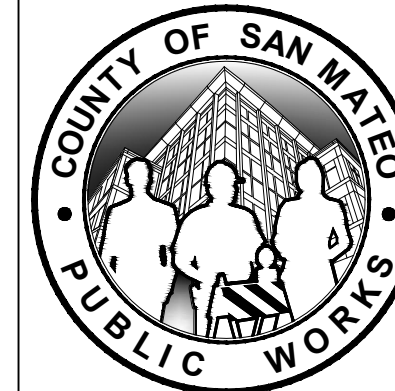
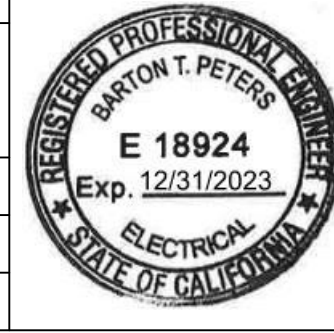
C&S Engineers, Inc.
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APPROVED DATE: 01-27-2023

Banton Peters

BARTON T. PETERS	
C&S ENGINEERS, INC.	
R.C.E. # E 18924	EXPIRES 12-31-2023



DESIGNED BY:	C.B.
CHECKED BY:	D.M.
DRAWN BY:	S.D.

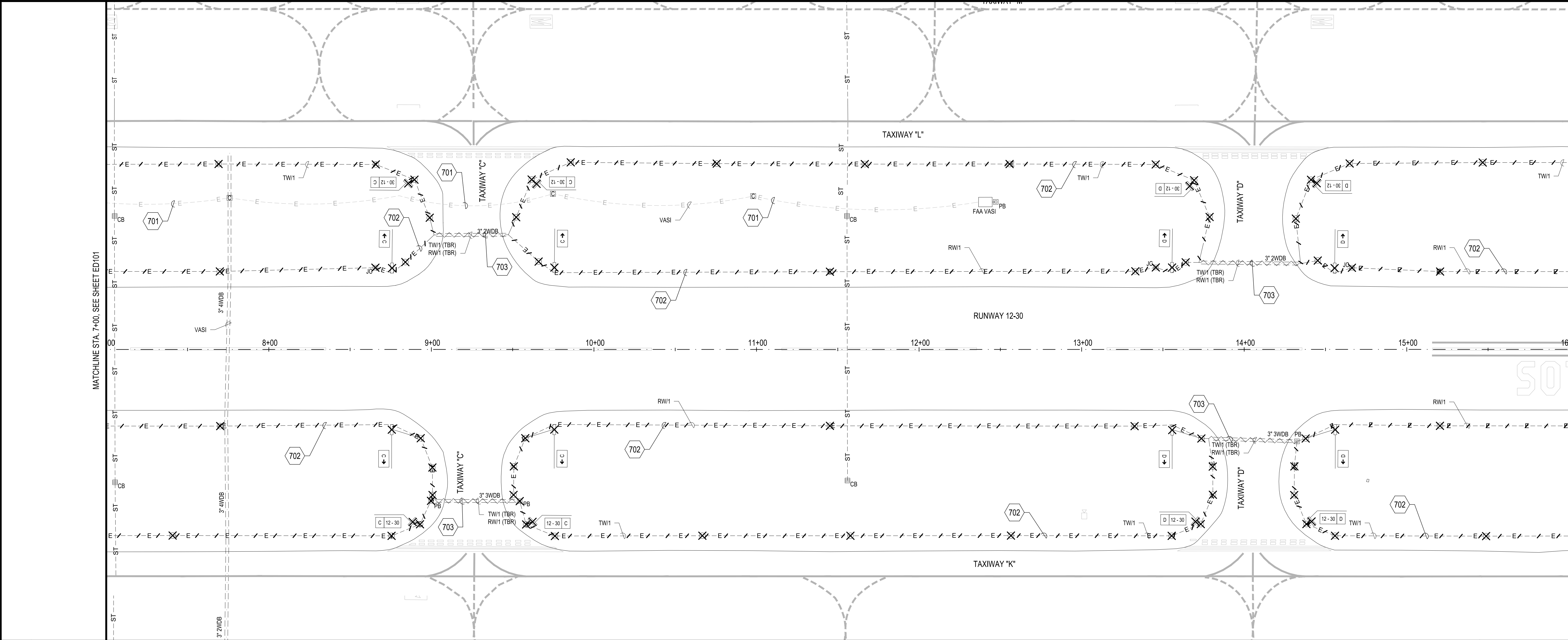
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS
SAN MATEO COUNTY

ELECTRICAL DEMOLITION PLAN
RUNWAY 12-30 AND CONNECTOR TAXIWAYS
REHABILITATION

555 COUNTY CENTER, 5th FLOOR
REDWOOD CITY, CALIFORNIA 94063

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

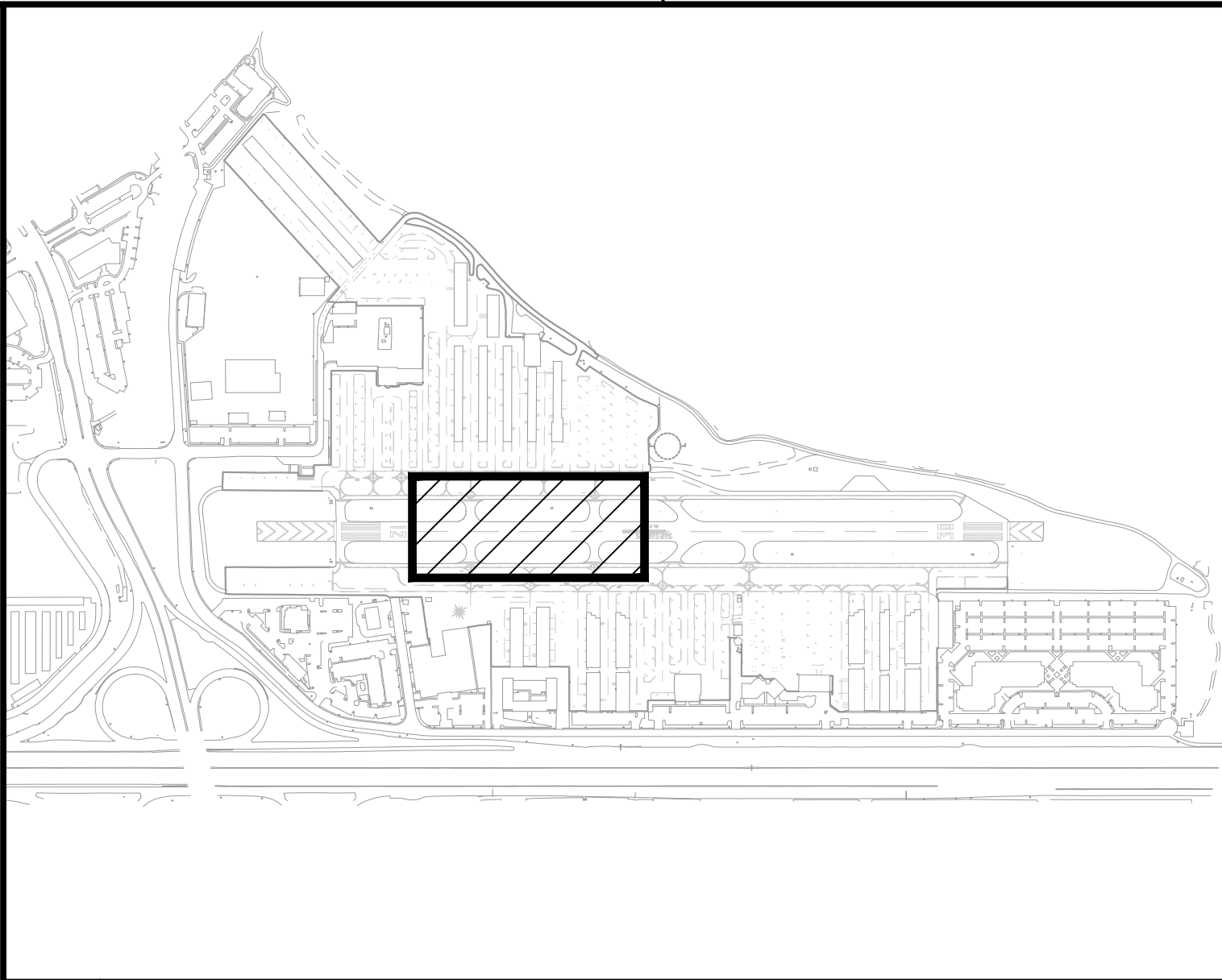
ED101
SHEET 37 OF 53



B1 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 30'

701. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. EXACT ROUTING UNKNOWN, CONTRACTOR TO DETERMINE.
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- ✕ EXISTING EDGE LIGHT FIXTURE AND BASE TO BE REMOVED, ITEM L-125.
- ✕_{PB} EXISTING ELECTRICAL PULL BOX TO BE REMOVED, ITEM L-115.
- ▣_{PB} EXISTING ELECTRICAL PULL BOX TO REMAIN.
- ✕ EXISTING AIRFIELD GUIDANCE SIGN AND FOUNDATION TO BE REMOVED, ITEM L-125.
- ✕_C EXISTING JUNCTION CAN TO BE REMOVED, ITEM L-115.
- ▣ EXISTING CONCRETE MARKER FOR DIRECT EARTH BURIAL FAA CABLE.
- EXISTING SOLAR POWERED CAMERA STATION.

A1 KEYED NOTES AND LEGEND
SCALE: NOT TO SCALE



A4 KEY MAP
SCALE: NOT TO SCALE

APPROVED:
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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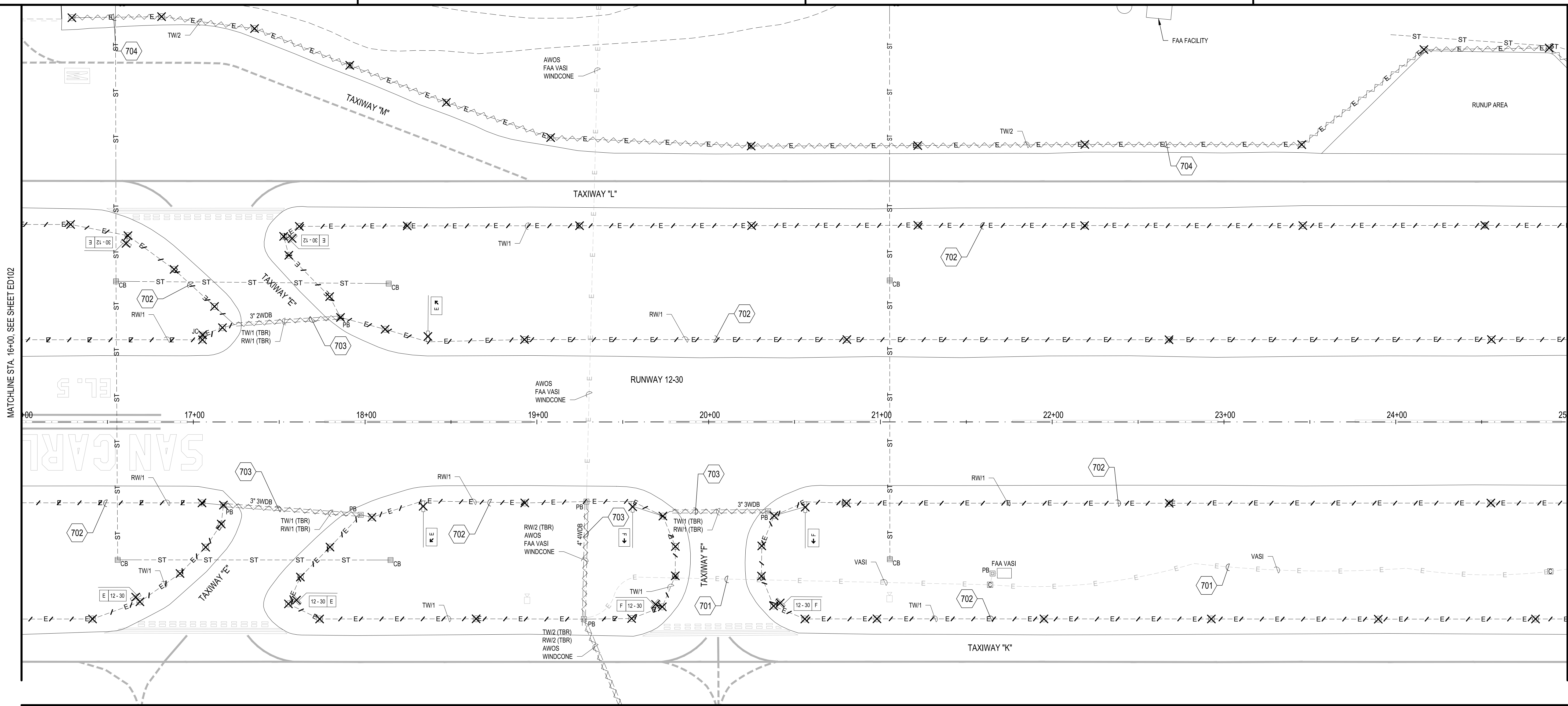
APPROVED DATE: 01-27-2023

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023

DESIGNED BY: C.B.	ELECTRICAL DEMOLITION PLAN RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	SCALE: 1" = 30'
CHECKED BY: D.M.		
DRAWN BY: S.D.	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION		

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

ED102
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B1 ELECTRICAL DEMOLITION PLAN

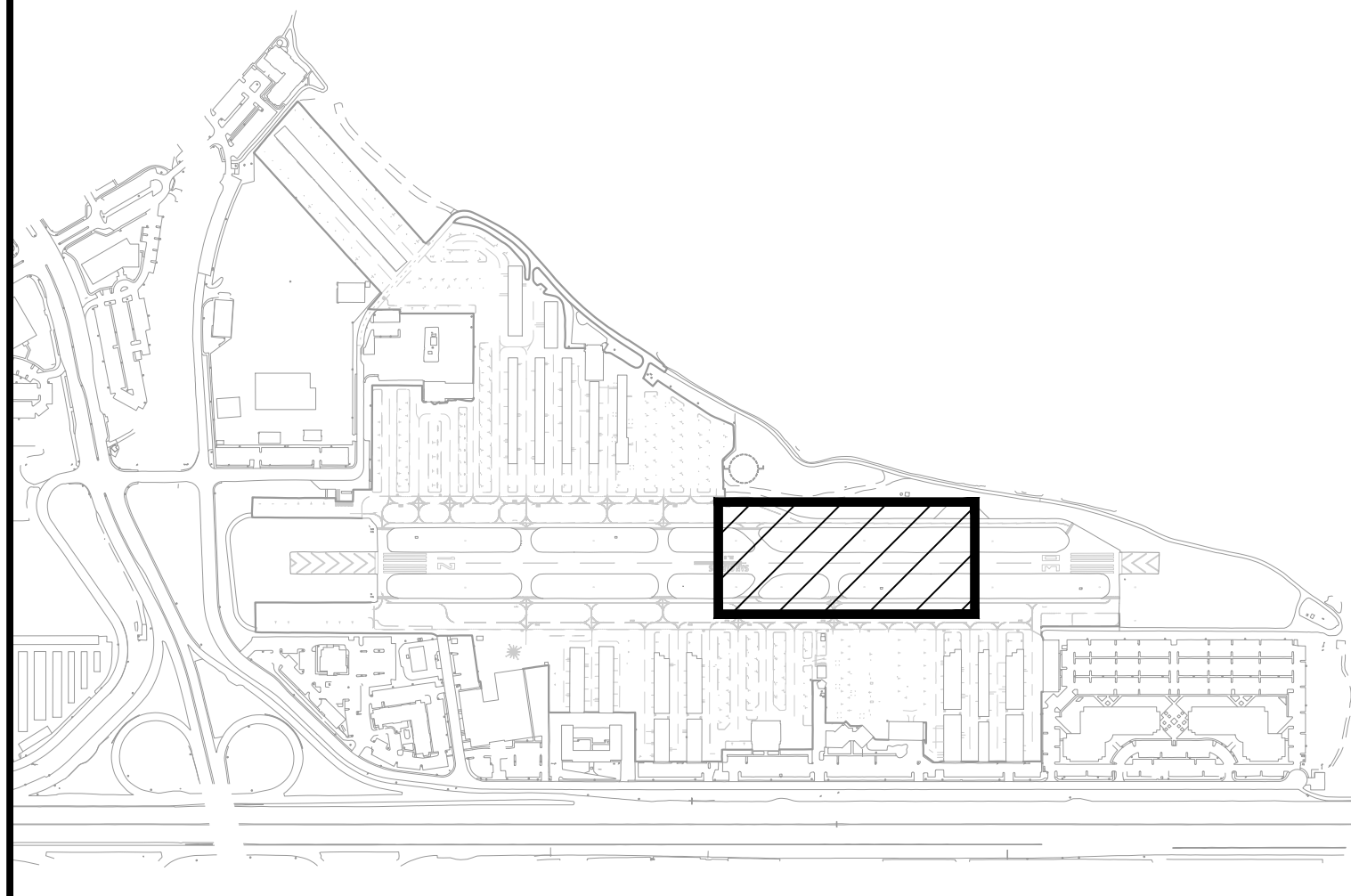
SCALE: 1" = 30'

701. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. EXACT ROUTING UNKNOWN, CONTRACTOR TO DETERMINE.
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704. REMOVE AND DISCARD ALL CABLES CONTAINED WITHIN CONDUITS SCHEDULED TO BE ABANDONED (TYP.). CONTRACTOR TO CONFIRM AND REMOVE ALL CABLES TO BE ABANDONED. LINEAR FOOT PAYMENT SHALL BE MADE FOR CABLE REMOVAL PER CONDUIT (NOT BY CABLE), REGARDLESS OF THE NUMBER OF CABLES CONTAINED WITHIN THE CONDUIT, ITEM L-110.

- ✕ EXISTING EDGE LIGHT FIXTURE AND BASE TO BE REMOVED, ITEM L-125.
- ▣_{PB} EXISTING ELECTRICAL PULL BOX TO REMAIN.
- ✕_{PB} EXISTING ELECTRICAL PULL BOX TO BE REMOVED, ITEM L-115.
- ✕ EXISTING AIRFIELD GUIDANCE SIGN AND FOUNDATION TO BE REMOVED, ITEM L-125.
- ▣ EXISTING CONCRETE MARKER FOR DIRECT EARTH BURIAL FAA CABLE
- ▣₃ EXISTING SOLAR POWERED CAMERA STATION. REMOVE AND STORE DURING CONSTRUCTION AND REPLACE IN SAME LOCATION

A1 KEYED NOTES AND LEGEND

SCALE: NOT TO SCALE



A4 KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
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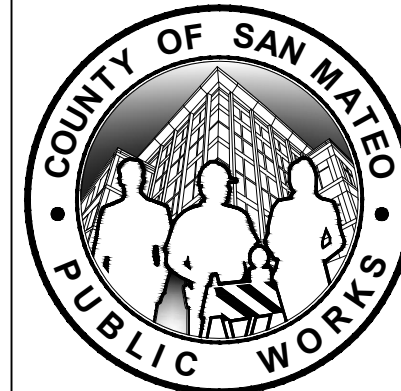
APPROVED DATE: 01-27-2023

Barton T. Peters

BARTON T. PETERS

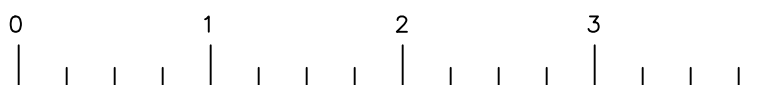
C&S ENGINEERS, INC.

R.C.E. # E 18924 EXPIRES 12-31-2023

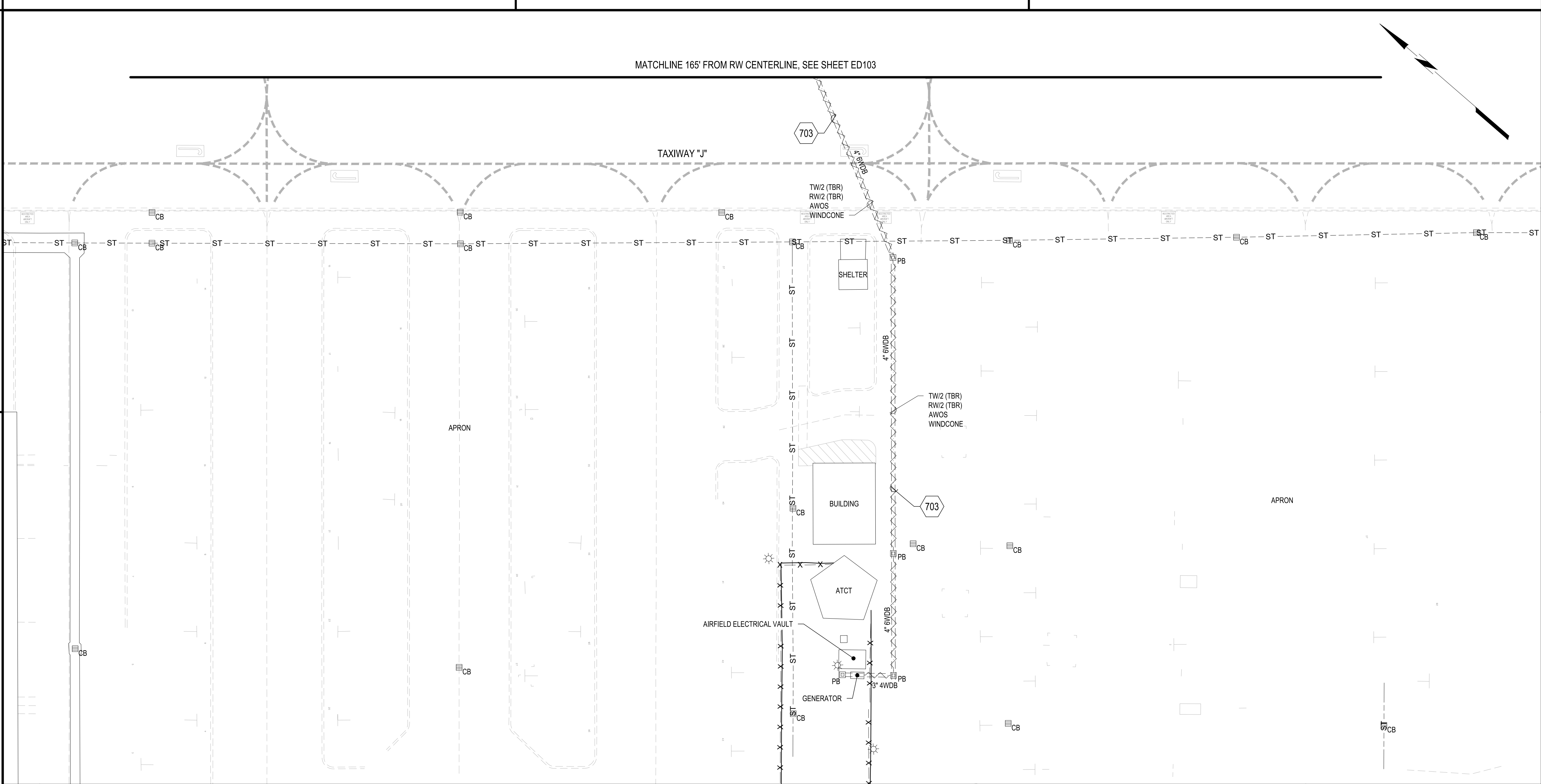


		DESIGNED BY: C.B.	ELECTRICAL DEMOLITION PLAN RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		SCALE: 1" = 30'
		CHECKED BY: D.M.			DATE: JANUARY 2023
		DRAWN BY: S.D.			FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				ED103 SHEET 390F 53

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TRX CONNECTOR REHAB DESIGN\CADD\ SHEET FILES\116003009_ED-SERIES.DWG (ED103)



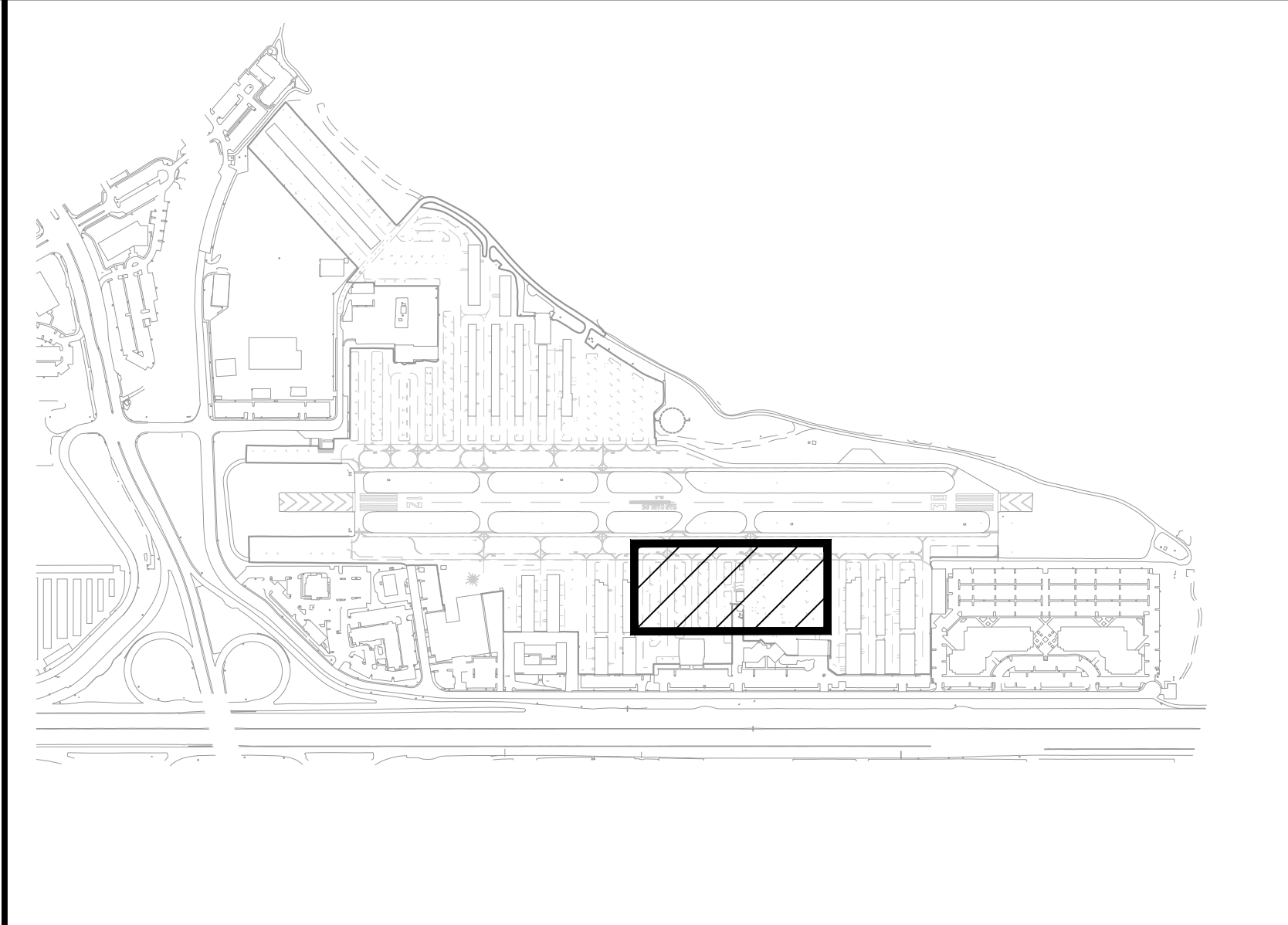
B1 AIRFIELD ELECTRICAL HOMERUN DEMOLITION PLAN
SCALE: 1" = 30'

703. REMOVE AND DISCARD ALL CABLES CONTAINED WITHIN CONDUITS/ DUCT BANKS SCHEDULED FOR REUSE (TYP.). CONDUIT SHALL REMAIN AND BE CLEANED/MANDRELED. CONTRACTOR TO CONFIRM AND REMOVE ALL CABLES TO BE ABANDONED. LINEAR FOOT PAYMENT SHALL BE MADE FOR CABLE REMOVAL PER CONDUIT (NOT BY CABLE). REGARDLESS OF THE NUMBER OF CABLES CONTAINED WITHIN THE CONDUIT, ITEM L-110, THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE REMAINING ACTIVE CABLES TO REMAIN.

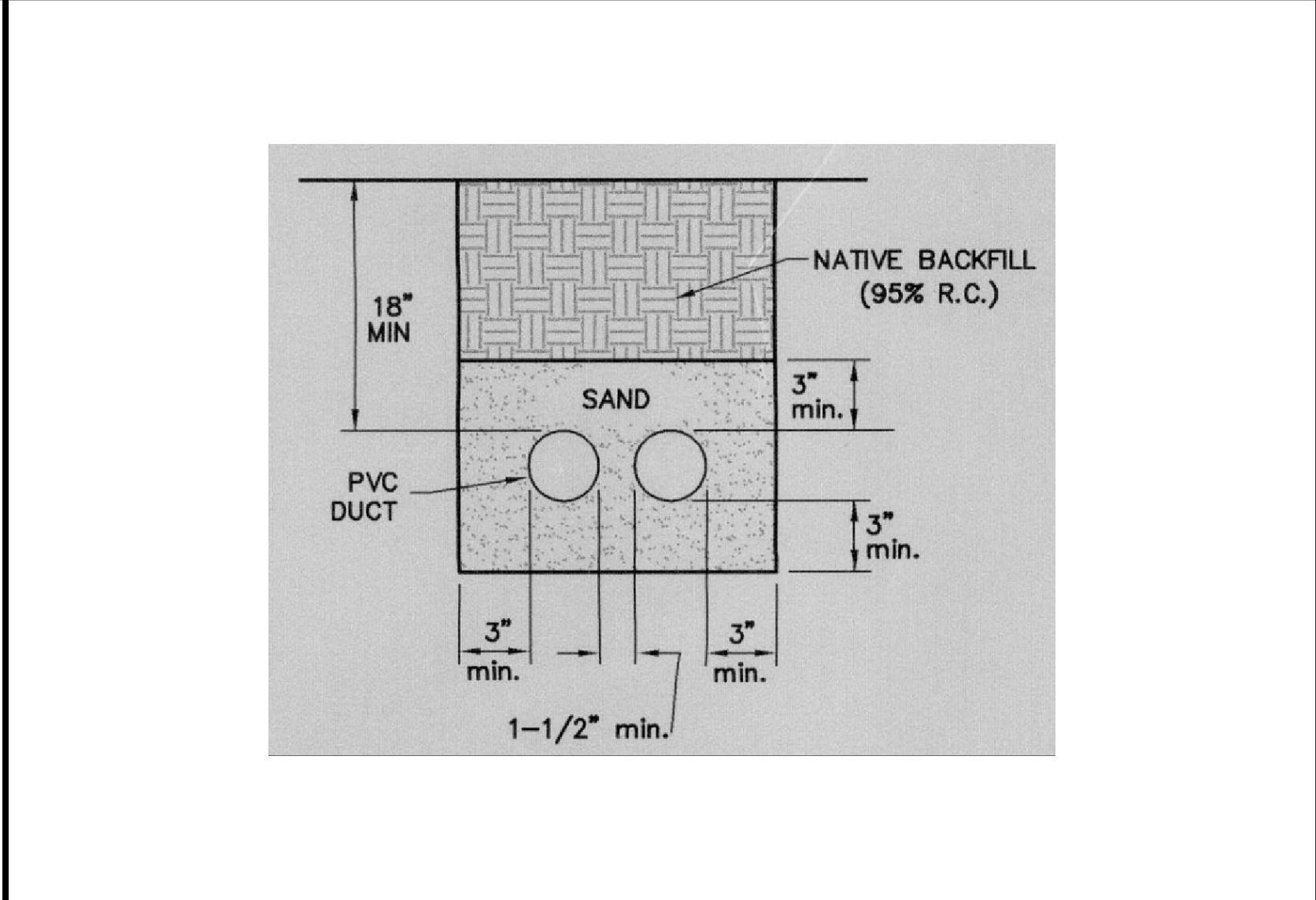
EXISTING ELECTRICAL PULL BOX TO REMAIN

NOTE:
- RECORD DRAWING DETAILS INCLUDED TO AID IN BID PRICING.

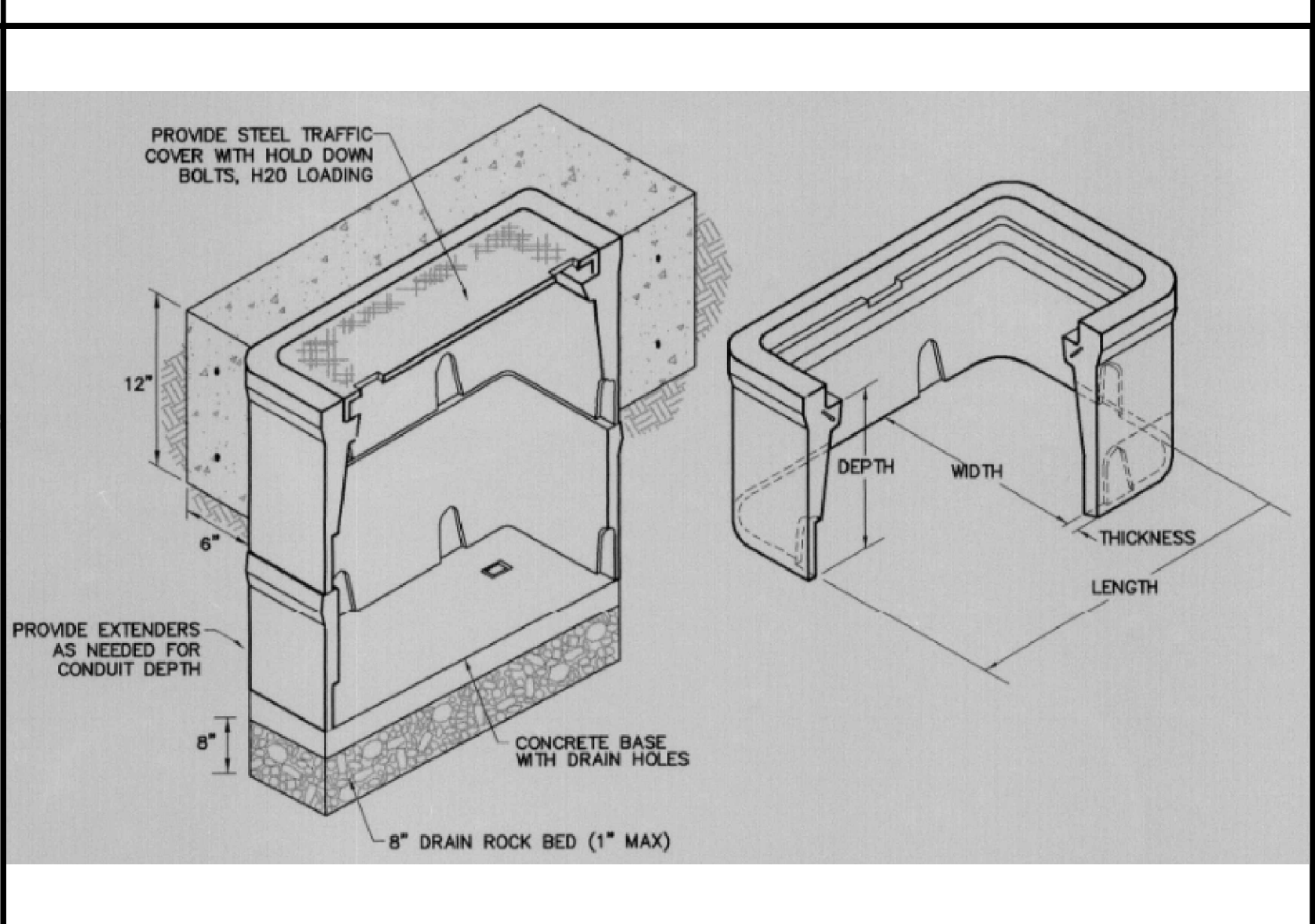
A1 KEYED NOTES, LEGEND, AND SHEET NOTE
SCALE: NOT TO SCALE



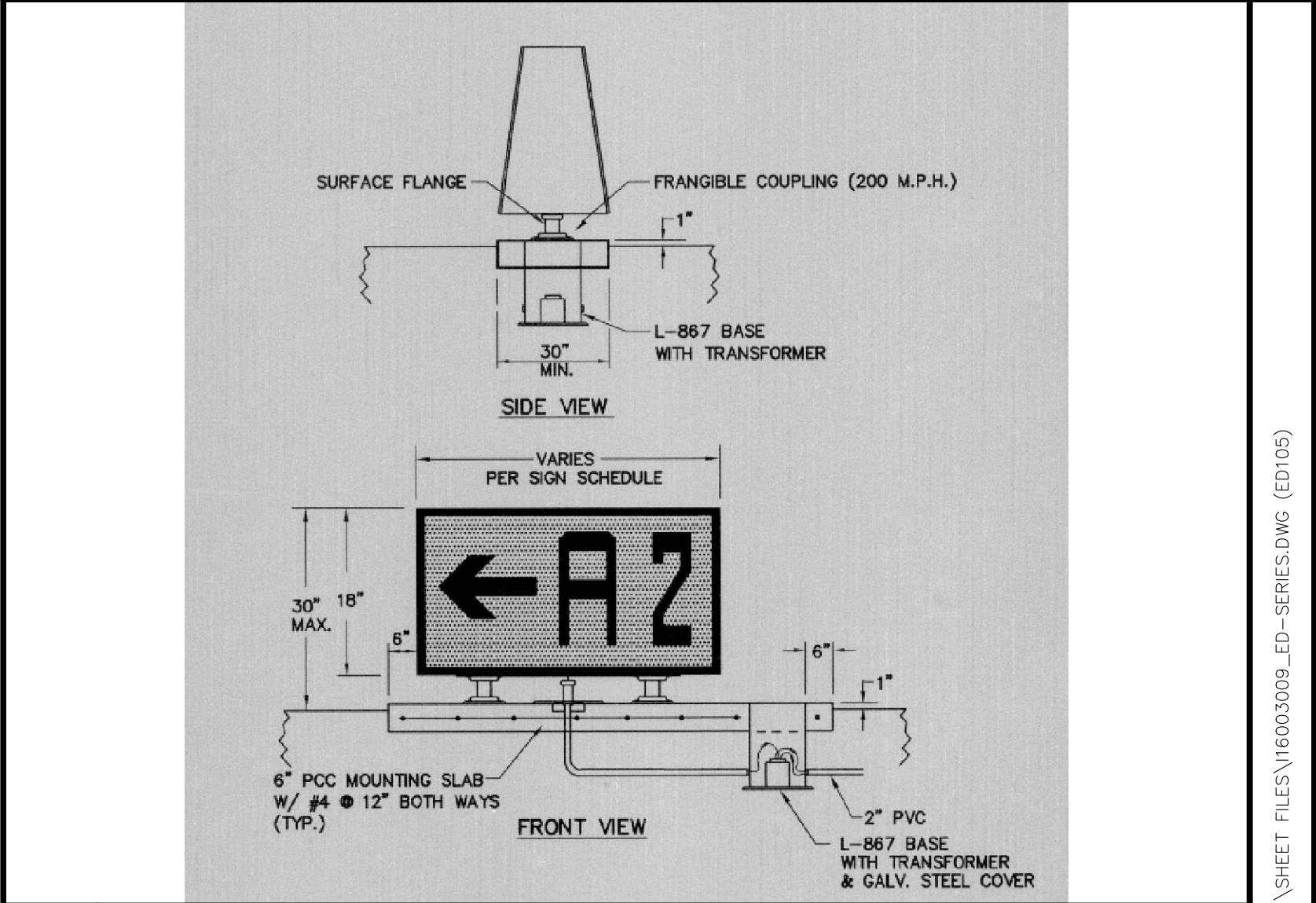
A2 KEY MAP
SCALE: NOT TO SCALE



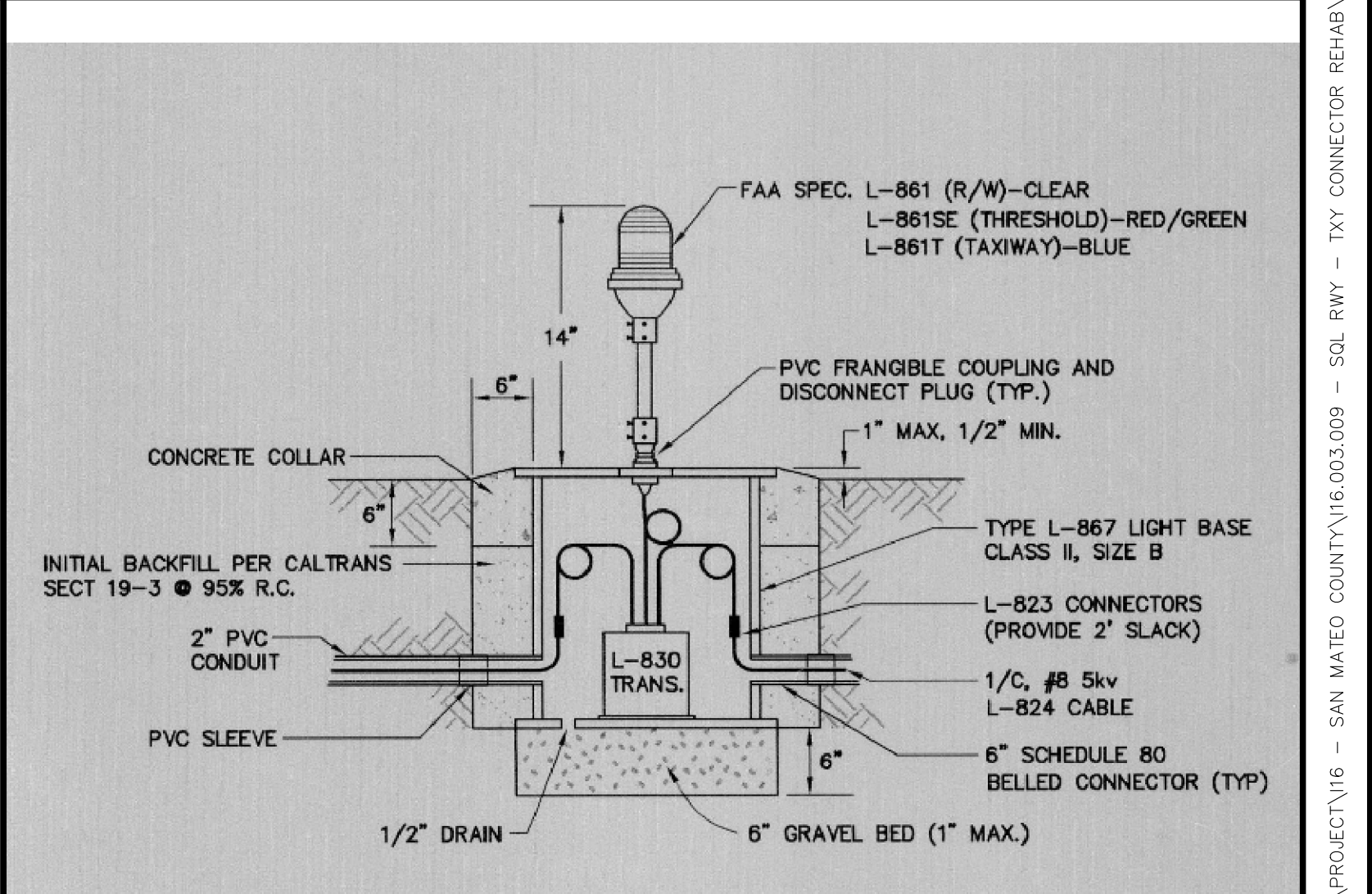
A3 EXISTING TRENCHING DETAIL FROM RECORD DRAWINGS
(FOR INFORMATIONAL PURPOSES ONLY)
SCALE: NOT TO SCALE



C4 EXISTING PULL BOX DETAIL FROM RECORD DRAWINGS
(FOR INFORMATIONAL PURPOSES ONLY)
SCALE: NOT TO SCALE



B4 EXISTING SIGNAGE DETAIL FROM RECORD DRAWINGS
(FOR INFORMATIONAL PURPOSES ONLY)
SCALE: NOT TO SCALE



A4 EXISTING LIGHT DETAIL FROM RECORD DRAWINGS
(FOR INFORMATIONAL PURPOSES ONLY)
SCALE: NOT TO SCALE

APPROVED:
DATE: 1/27/2023

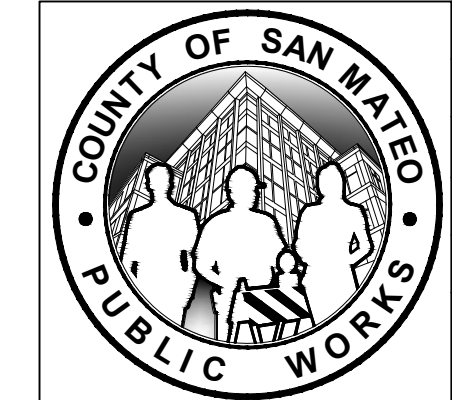
ANN MADER STILLMAN
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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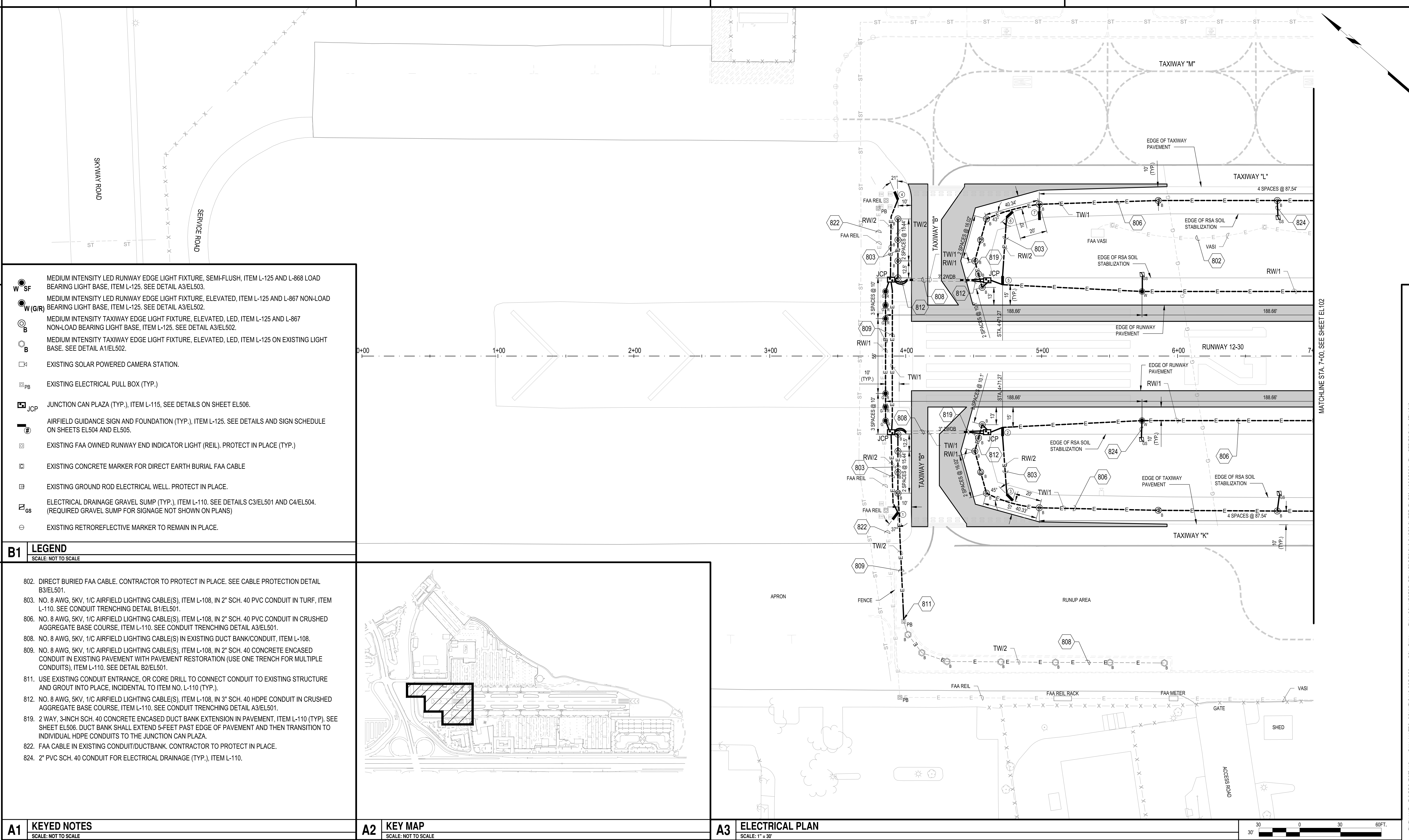


APPROVED DATE: 01-27-2023

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023



DESIGNED BY: C.B.	AIRFIELD ELECTRICAL HOMERUN DEMOLITION PLAN	SCALE: 1" = 30'
CHECKED BY: D.M.	RUNWAY 12-30 AND CONNECTOR TAXIWAYS	DATE: JANUARY 2023
DRAWN BY: S.D.	REHABILITATION	FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	555 COUNTY CENTER, 5th FLOOR	
SAN MATEO COUNTY	REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		ED105 SHEET 410F 53

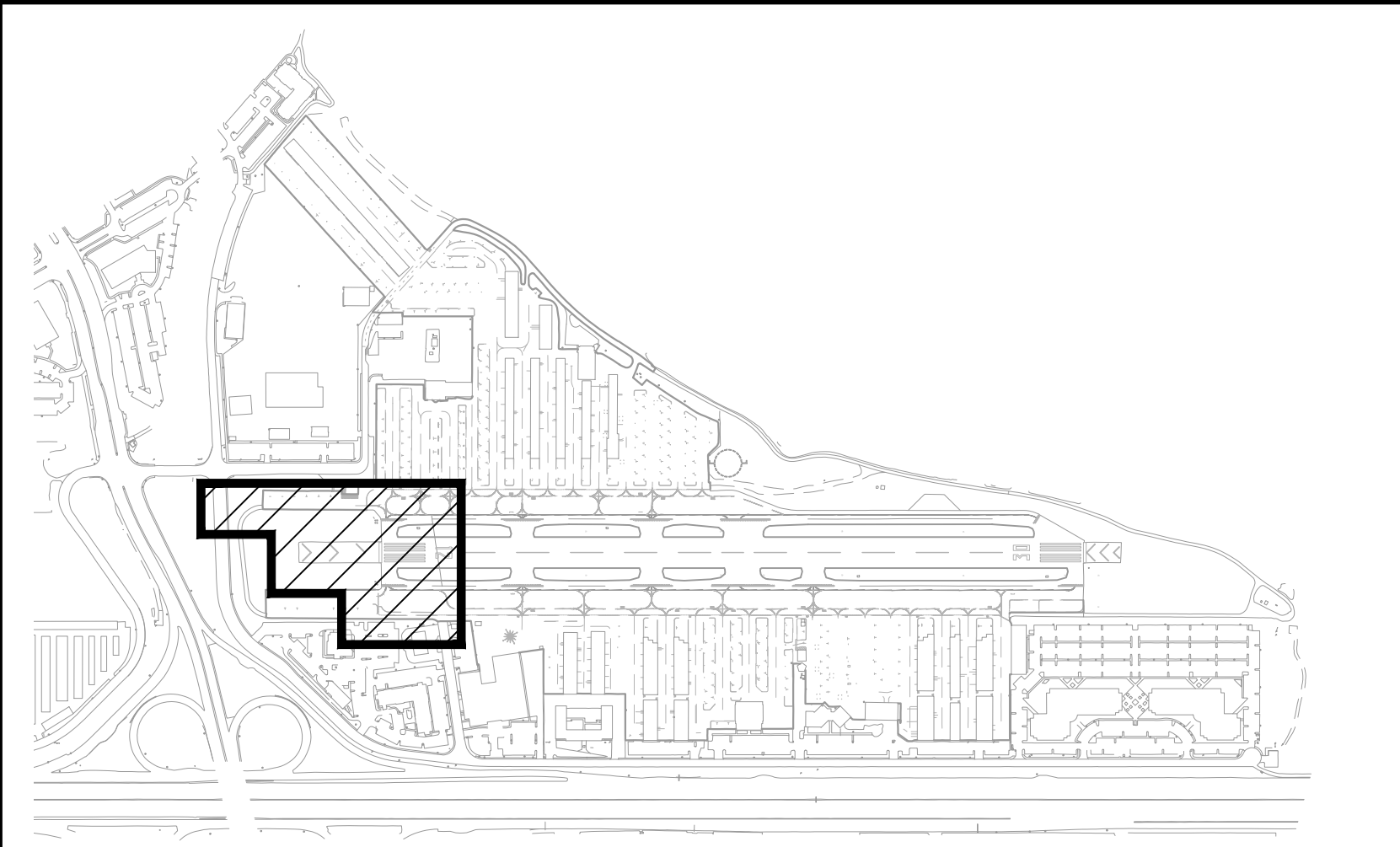


- W SF** MEDIUM INTENSITY LED RUNWAY EDGE LIGHT FIXTURE, SEMI-FLUSH, ITEM L-125 AND L-868 LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL503.
- W (G/R)** MEDIUM INTENSITY LED RUNWAY EDGE LIGHT FIXTURE, ELEVATED, ITEM L-125 AND L-867 NON-LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL502.
- B** MEDIUM INTENSITY TAXIWAY EDGE LIGHT FIXTURE, ELEVATED, LED, ITEM L-125 AND L-867 NON-LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL502.
- B** MEDIUM INTENSITY TAXIWAY EDGE LIGHT FIXTURE, ELEVATED, LED, ITEM L-125 ON EXISTING LIGHT BASE. SEE DETAIL A1/EL502.
- SC** EXISTING SOLAR POWERED CAMERA STATION.
- PB** EXISTING ELECTRICAL PULL BOX (TYP.)
- JCP** JUNCTION CAN PLAZA (TYP.), ITEM L-115, SEE DETAILS ON SHEET EL506.
- #** AIRFIELD GUIDANCE SIGN AND FOUNDATION (TYP.), ITEM L-125. SEE DETAILS AND SIGN SCHEDULE ON SHEETS EL504 AND EL505.
- EL** EXISTING FAA OWNED RUNWAY END INDICATOR LIGHT (REIL), PROTECT IN PLACE (TYP.)
- CM** EXISTING CONCRETE MARKER FOR DIRECT EARTH BURIAL FAA CABLE
- GR** EXISTING GROUND ROD ELECTRICAL WELL. PROTECT IN PLACE.
- GS** ELECTRICAL DRAINAGE GRAVEL SUMP (TYP.), ITEM L-110. SEE DETAILS C3/EL501 AND C4/EL504. (REQUIRED GRAVEL SUMP FOR SIGNAGE NOT SHOWN ON PLANS)
- RM** EXISTING RETROREFLECTIVE MARKER TO REMAIN IN PLACE.

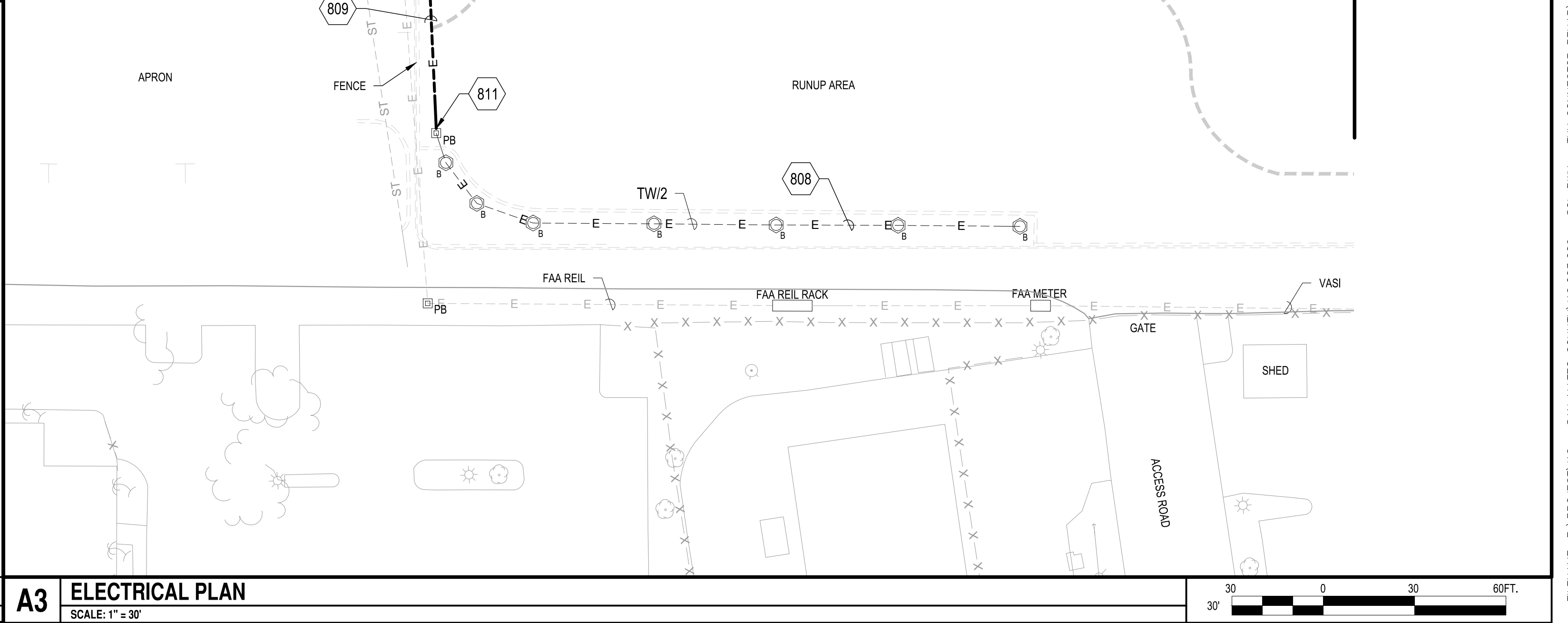
B1 **LEGEND**
SCALE: NOT TO SCALE

802. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. SEE CABLE PROTECTION DETAIL B3/EL501.
803. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN TURF, ITEM L-110. SEE CONDUIT TRENCHING DETAIL B1/EL501.
806. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.
808. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S) IN EXISTING DUCT BANK/CONDUIT, ITEM L-108.
809. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 CONCRETE ENCASED CONDUIT IN EXISTING PAVEMENT WITH PAVEMENT RESTORATION (USE ONE TRENCH FOR MULTIPLE CONDUITS), ITEM L-110. SEE DETAIL B2/EL501.
811. USE EXISTING CONDUIT ENTRANCE, OR CORE DRILL TO CONNECT CONDUIT TO EXISTING STRUCTURE AND GROUT INTO PLACE, INCIDENTAL TO ITEM NO. L-110 (TYP.).
812. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 3" SCH. 40 HDPE CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.
819. 2 WAY, 3-INCH SCH. 40 CONCRETE ENCASED DUCT BANK EXTENSION IN PAVEMENT, ITEM L-110 (TYP). SEE SHEET EL506. DUCT BANK SHALL EXTEND 5-FEET PAST EDGE OF PAVEMENT AND THEN TRANSITION TO INDIVIDUAL HDPE CONDUITS TO THE JUNCTION CAN PLAZA.
822. FAA CABLE IN EXISTING CONDUIT/DUCTBANK. CONTRACTOR TO PROTECT IN PLACE.
824. 2" PVC SCH. 40 CONDUIT FOR ELECTRICAL DRAINAGE (TYP.), ITEM L-110.

A1 **KEYED NOTES**
SCALE: NOT TO SCALE



A2 **KEY MAP**
SCALE: NOT TO SCALE



A3 **ELECTRICAL PLAN**
SCALE: 1" = 30'

APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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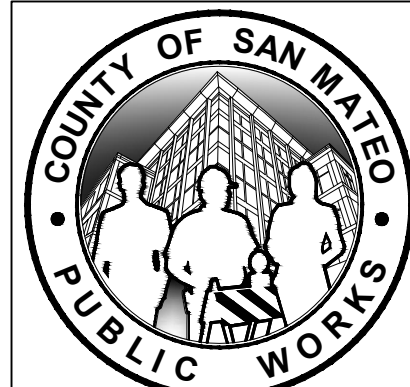


APPROVED DATE: 01-27-2023

Barton T. Peters

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023

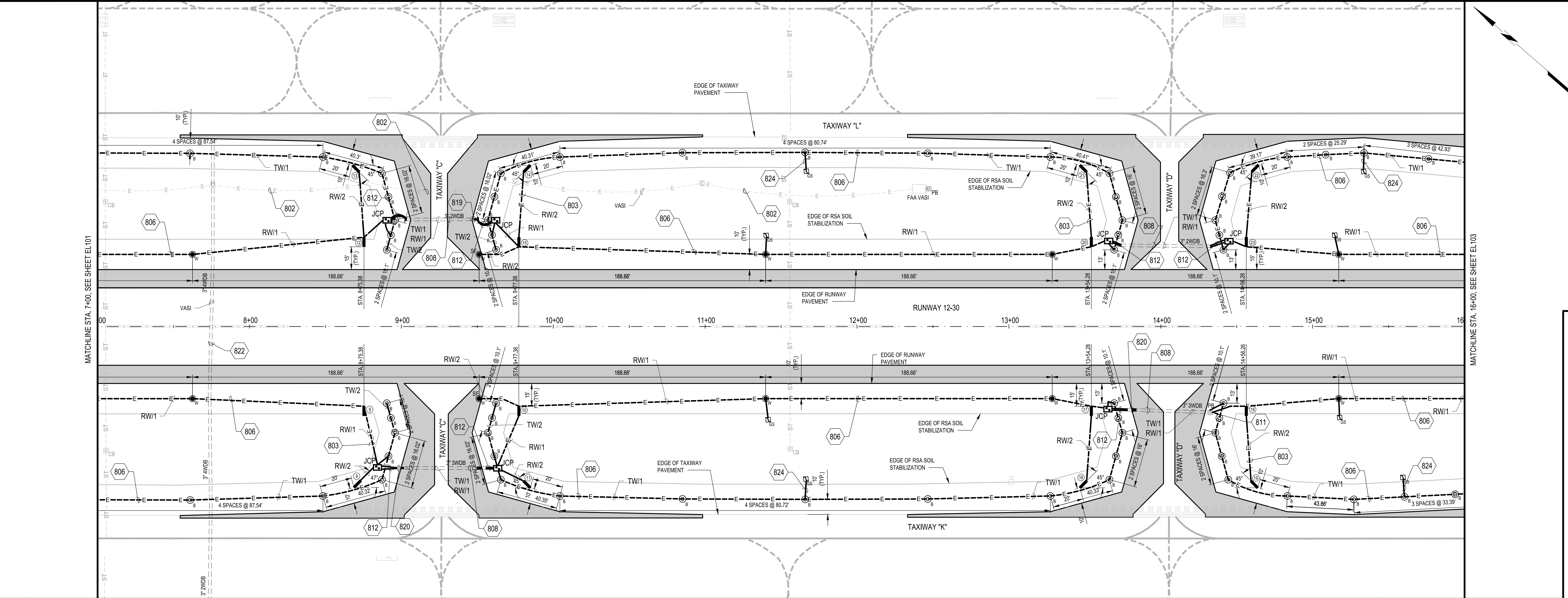
E 18924
Exp. 12/31/2023



DESIGNED BY: C.B.	ELECTRICAL PLAN RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	SCALE: 1" = 30'
CHECKED BY: D.M.		DATE: JANUARY 2023
DRAWN BY: S.D.	ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE	EL101 SHEET 420F 53

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3 4



B1 ELECTRICAL PLANS
SCALE: 1" = 30'

802. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. SEE CABLE PROTECTION DETAIL B3/EL501.

803. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN TURF, ITEM L-110. SEE CONDUIT TRENCHING DETAIL B1/EL501.

806. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.

808. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S) IN EXISTING DUCT BANK/CONDUIT, ITEM L-108.

811. USE EXISTING CONDUIT ENTRANCE, OR CORE DRILL TO CONNECT CONDUIT TO EXISTING STRUCTURE AND GROUT INTO PLACE, INCIDENTAL TO ITEM NO. L-110 (TYP.).

812. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 3" SCH. 40 HDPE CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.

819. 2 WAY, 3-INCH SCH. 40 CONCRETE ENCASED DUCT BANK EXTENSION IN PAVEMENT, ITEM L-110 (TYP.). SEE SHEET EL506. DUCT BANK SHALL EXTEND 5-FEET PAST EDGE OF PAVEMENT AND THEN TRANSITION TO INDIVIDUAL HDPE CONDUITS TO THE JUNCTION CAN PLAZA.

820. 3 WAY, 3-INCH SCH. 40 CONCRETE ENCASED DUCT BANK EXTENSION IN PAVEMENT, ITEM L-110 (TYP.). SEE SHEET EL506. SEE SHEET EL505. DUCT BANK SHALL EXTEND 5-FEET PAST EDGE OF PAVEMENT AND THEN TRANSITION TO INDIVIDUAL CONDUITS TO THE JUNCTION CAN PLAZA.

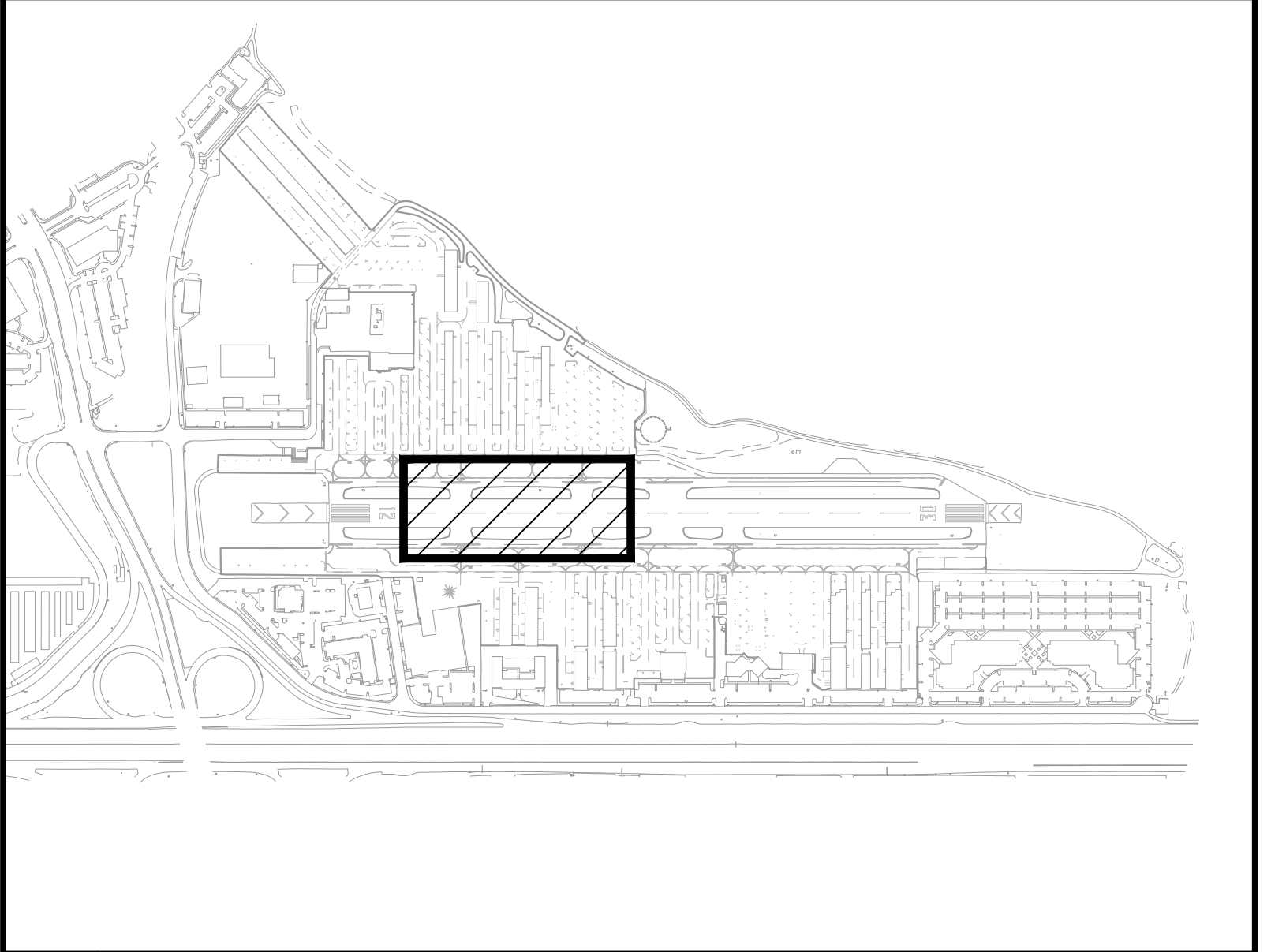
822. FAA CABLE IN EXISTING CONDUIT/DUCTBANK. CONTRACTOR TO PROTECT IN PLACE.

824. 2" PVC SCH. 40 CONDUIT FOR ELECTRICAL DRAINAGE (TYP.), ITEM L-110.


- W SF** MEDIUM INTENSITY LED RUNWAY EDGE LIGHT FIXTURE, SEMI-FLUSH, ITEM L-125 AND L-868 LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL503.
- W** MEDIUM INTENSITY LED RUNWAY EDGE LIGHT FIXTURE, ELEVATED, ITEM L-125 AND L-867 NON-LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL502.
- B** MEDIUM INTENSITY TAXIWAY EDGE LIGHT FIXTURE, ELEVATED, LED, ITEM L-125 AND L-867 NON-LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL502.
- PB** EXISTING ELECTRICAL PULL BOX (TYP.)
- JCP** JUNCTION CAN PLAZA (TYP.), ITEM L-115, SEE DETAILS ON SHEET EL506.
- #** AIRFIELD GUIDANCE SIGN AND FOUNDATION (TYP.), ITEM L-125. SEE DETAILS AND SIGN SCHEDULE ON SHEETS EL504 AND EL505.
- CM** EXISTING CONCRETE MARKER FOR DIRECT EARTH BURIAL FAA CABLE
- CS** EXISTING SOLAR POWERED CAMERA STATION.
- GS** ELECTRICAL DRAINAGE GRAVEL SUMP (TYP.), ITEM L-110. SEE DETAILS C3/EL501 AND C4/EL504. (REQUIRED GRAVEL SUMP FOR SIGNAGE NOT SHOWN ON PLANS)

A1 KEYED NOTES
SCALE: NOT TO SCALE

A2 LEGEND
SCALE: NOT TO SCALE



A4 KEY MAP
SCALE: NOT TO SCALE



APPROVED:


DATE: 1/27/2023

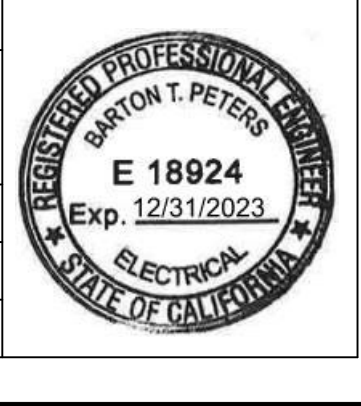
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

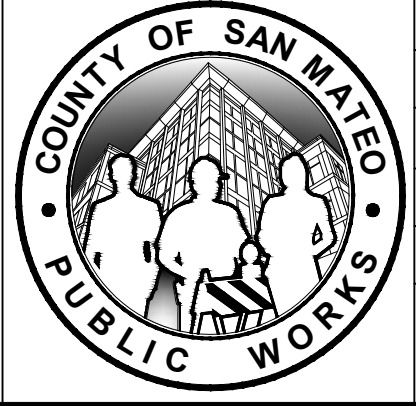
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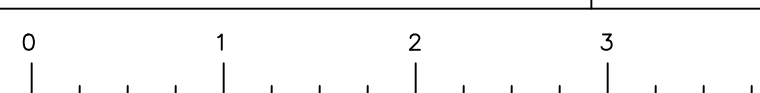


APPROVED DATE: 01-27-2023

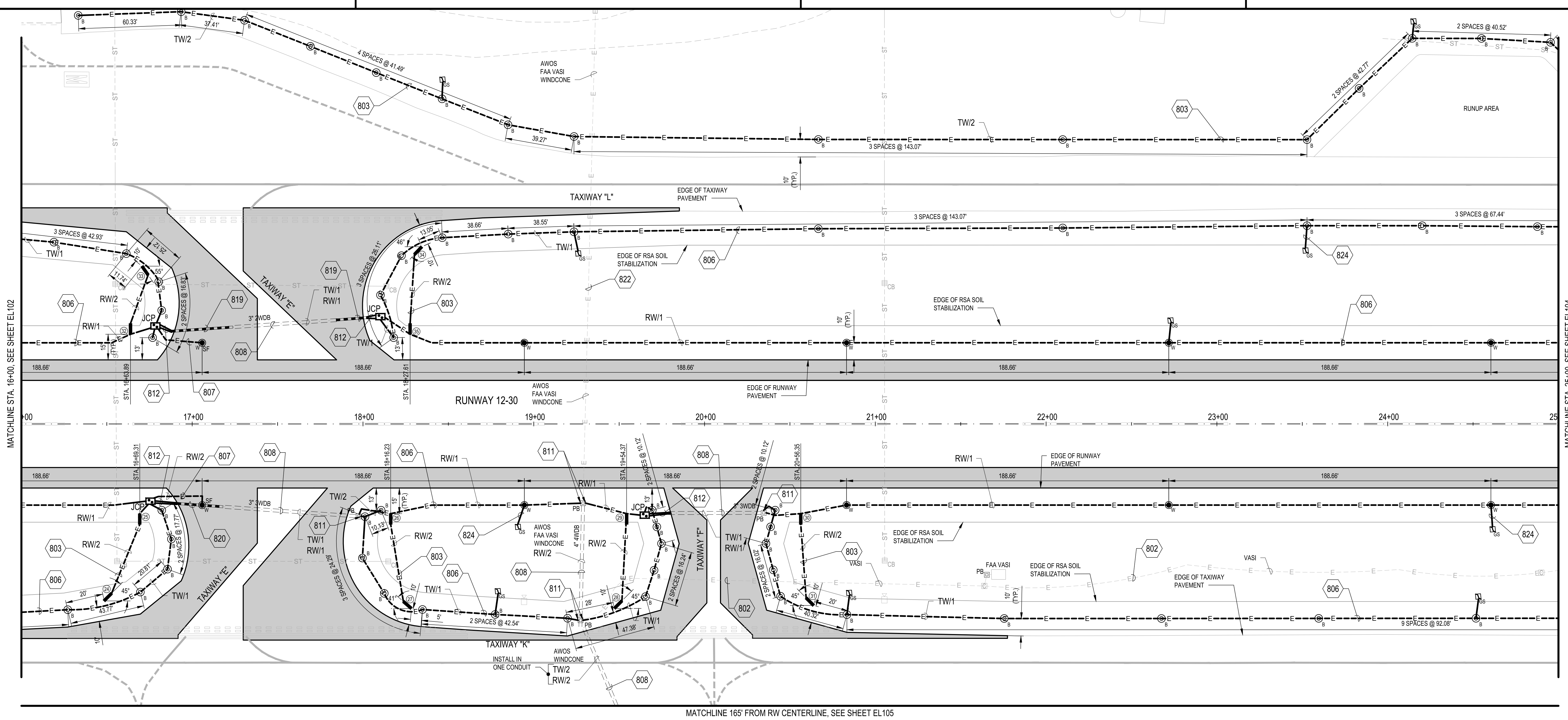

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023





DESIGNED BY: C.B.		ELECTRICAL PLANS RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	SCALE: 1" = 30'
CHECKED BY: D.M.			
DRAWN BY: S.D.			
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	EL102 SHEET 43OF 53	

FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL Rwy - TTY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\116003009_EL-SERIES.DWG (EL102)



B1 ELECTRICAL PLANS

SCALE: 1" = 30'

802. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. SEE CABLE PROTECTION DETAIL B3/EL501.
803. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN TURF, ITEM L-110. SEE CONDUIT TRENCHING DETAIL B1/EL501.
806. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.
807. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 CONCRETE ENCASED CONDUIT IN PROPOSED PAVEMENT, ITEM L-110. SEE DETAIL B2/EL501.
808. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S) IN EXISTING DUCT BANK/CONDUIT, ITEM L-108.
811. USE EXISTING CONDUIT ENTRANCE, OR CORE DRILL TO CONNECT CONDUIT TO EXISTING STRUCTURE AND GROUT INTO PLACE, INCIDENTAL TO ITEM NO. L-110 (TYP.).
812. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 3" SCH. 40 HDPE CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.
819. 2 WAY, 3-INCH SCH. 40 CONCRETE ENCASED DUCT BANK EXTENSION IN PAVEMENT, ITEM L-110 (TYP.). SEE SHEET EL506. DUCT BANK SHALL EXTEND 5-FEET PAST EDGE OF PAVEMENT AND THEN TRANSITION TO INDIVIDUAL HDPE CONDUITS TO THE JUNCTION CAN PLAZA.
820. 3 WAY, 3-INCH SCH. 40 CONCRETE ENCASED DUCT BANK EXTENSION IN PAVEMENT, ITEM L-110 (TYP.). SEE SHEET EL506. DUCT BANK SHALL EXTEND 5-FEET PAST EDGE OF PAVEMENT AND THEN TRANSITION TO INDIVIDUAL CONDUITS TO THE JUNCTION CAN PLAZA.
822. FAA CABLE IN EXISTING CONDUIT/DUCTBANK. CONTRACTOR TO PROTECT IN PLACE.
824. 2" PVC SCH. 40 CONDUIT FOR ELECTRICAL DRAINAGE (TYP.), ITEM L-110.

A1 KEYED NOTES

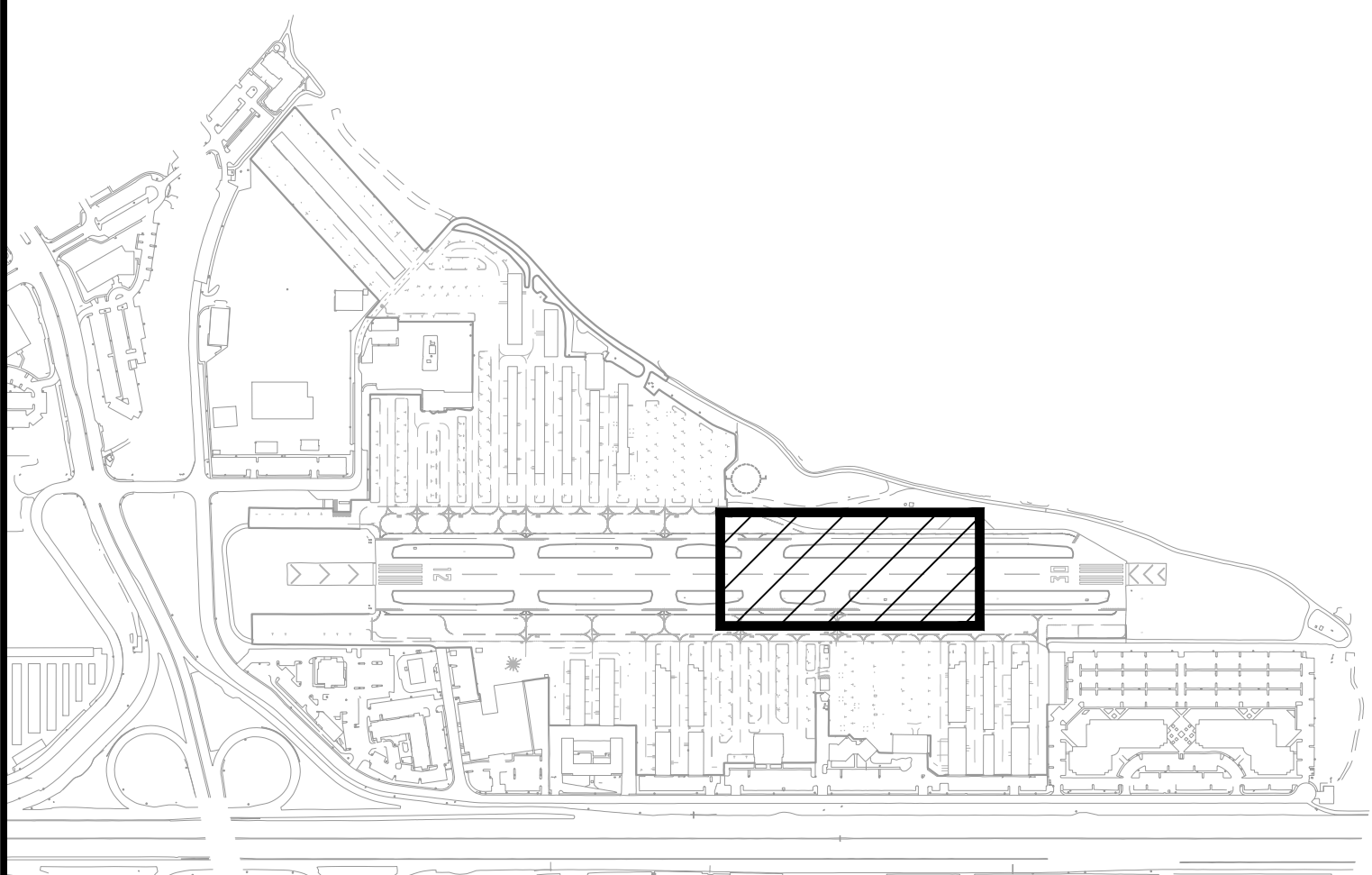
SCALE: NOT TO SCALE

- W SF MEDIUM INTENSITY LED RUNWAY EDGE LIGHT FIXTURE, SEMI-FLUSH, ITEM L-125 AND L-868 LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL503.
- W MEDIUM INTENSITY LED RUNWAY EDGE LIGHT FIXTURE, ELEVATED, ITEM L-125 AND L-867 NON-LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL502.
- B MEDIUM INTENSITY TAXIWAY EDGE LIGHT FIXTURE, ELEVATED, LED, ITEM L-125 AND L-867 NON-LOAD BEARING LIGHT BASE, ITEM L-125. SEE DETAIL A3/EL502.
- PB EXISTING ELECTRICAL PULL BOX (TYP.)
- JCP JUNCTION CAN PLAZA (TYP.), ITEM L-115, SEE DETAILS ON SHEET EL506.
- # AIRFIELD GUIDANCE SIGN AND FOUNDATION (TYP.), ITEM L-125. SEE DETAILS AND SIGN SCHEDULE ON SHEETS EL504 AND EL505.
- EXISTING CONCRETE MARKER FOR DIRECT EARTH BURIAL FAA CABLE
- EXISTING SOLAR POWERED CAMERA STATION.
- GS ELECTRICAL DRAINAGE GRAVEL SUMP (TYP.), ITEM L-110. SEE DETAILS C3/EL501 AND C4/EL504. (REQUIRED GRAVEL SUMP FOR SIGNAGE NOT SHOWN ON PLANS)

A2 LEGEND

SCALE: NOT TO SCALE

30 0 30 60FT.



A4 KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

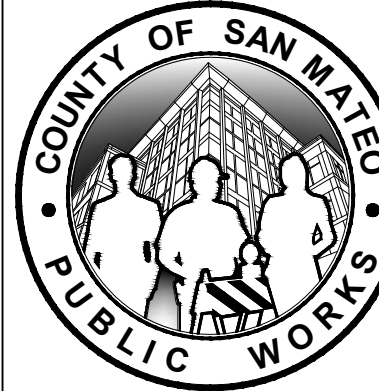
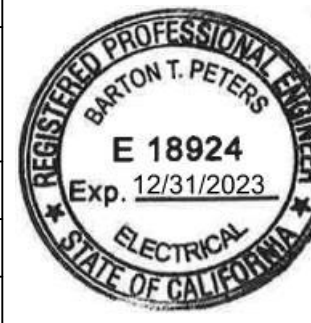
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Phone: 916-364-1470
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APPROVED DATE: 01-27-2023

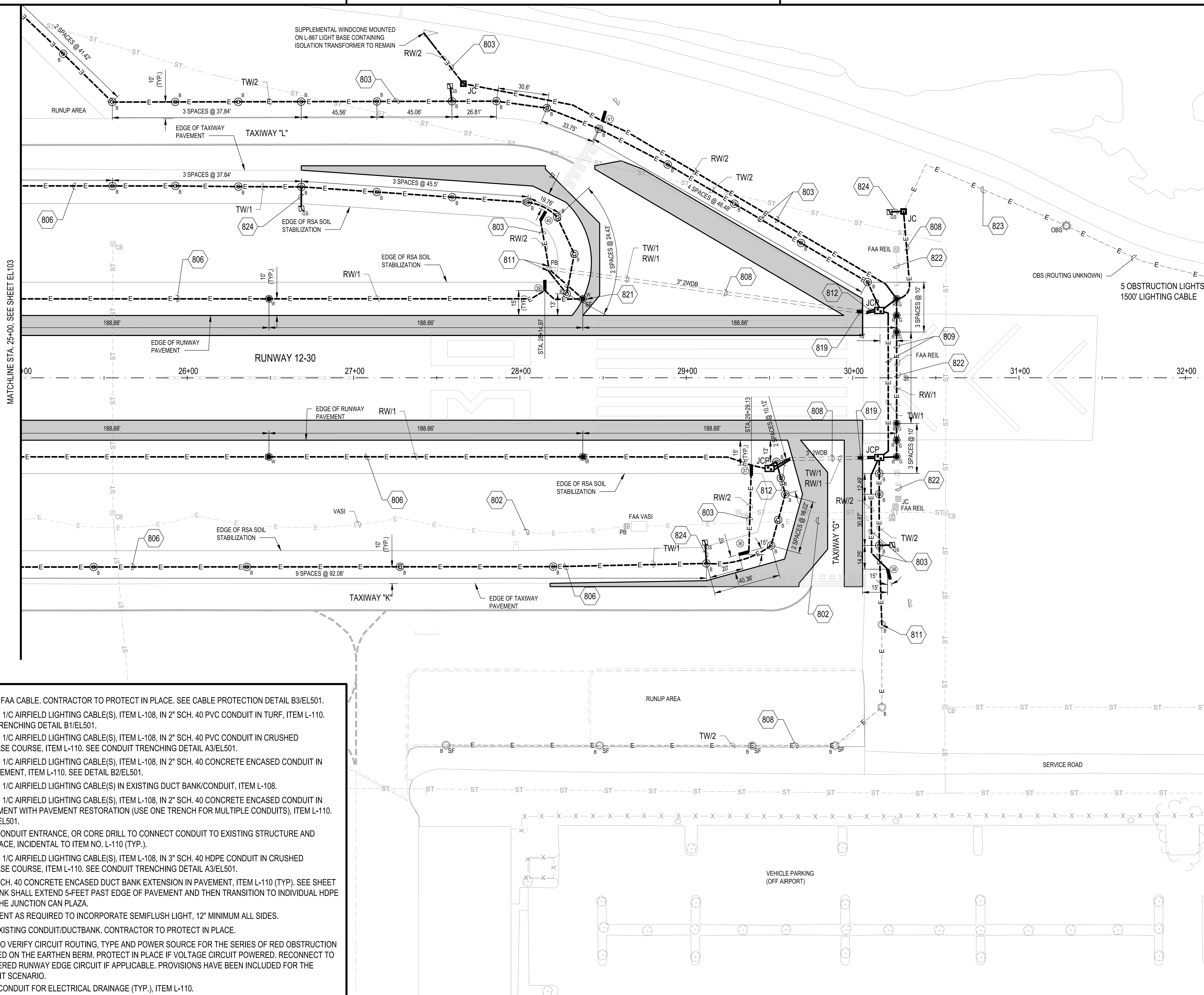
Barton T. Peters

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023



		DESIGNED BY: C.B.	ELECTRICAL PLANS		SCALE: 1" = 30'
		CHECKED BY: D.M.	RUNWAY 12-30 AND CONNECTOR TAXIWAYS		DATE: JANUARY 2023
		DRAWN BY: S.D.	REHABILITATION		FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
REVISION	DATE	SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			<div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>		EL103
					SHEET 440F 53

MATCHLINE STA. 25+00. SEE SHEET EL103



802. DIRECT BURIED FAA CABLE. CONTRACTOR TO PROTECT IN PLACE. SEE CABLE PROTECTION DETAIL B3/EL501.
803. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN TURF, ITEM L-110. SEE CONDUIT TRENCHING DETAIL B1/EL501.
806. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 PVC CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.
807. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 CONCRETE ENCASED CONDUIT IN PROPOSED PAVEMENT, ITEM L-110. SEE DETAIL B2/EL501.
808. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S) IN EXISTING DUCT BANK/CONDUIT, ITEM L-108.
809. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 2" SCH. 40 CONCRETE ENCASED CONDUIT IN EXISTING PAVEMENT WITH PAVEMENT RESTORATION (USE ONE TRENCH FOR MULTIPLE CONDUITS), ITEM L-110. SEE DETAIL B2/EL501.
811. USE EXISTING CONDUIT ENTRANCE, OR CORE DRILL TO CONNECT CONDUIT TO EXISTING STRUCTURE AND GROUT INTO PLACE, INCIDENTAL TO ITEM NO. L-110 (TYP.).
812. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S), ITEM L-108, IN 3" SCH. 40 HDPE CONDUIT IN CRUSHED AGGREGATE BASE COURSE, ITEM L-110. SEE CONDUIT TRENCHING DETAIL A3/EL501.
819. 2 WAY, 3-INCH SCH. 40 CONCRETE ENCASED DUCT BANK EXTENSION IN PAVEMENT, ITEM L-110 (TYP.). SEE SHEET EL506. DUCT BANK SHALL EXTEND 5-FEET PAST EDGE OF PAVEMENT AND THEN TRANSITION TO INDIVIDUAL HDPE CONDUITS TO THE JUNCTION CAN PLAZA.
821. EXTEND PAVEMENT AS REQUIRED TO INCORPORATE SEMIFLUSH LIGHT, 12" MINIMUM ALL SIDES.
822. FAA CABLE IN EXISTING CONDUIT/DUCTBANK. CONTRACTOR TO PROTECT IN PLACE.
823. CONTRACTOR TO VERIFY CIRCUIT ROUTING, TYPE AND POWER SOURCE FOR THE SERIES OF RED OBSTRUCTION LIGHTS MOUNTED ON THE EARTHEN BERM. PROTECT IN PLACE IF VOLTAGE CIRCUIT POWERED. RECONNECT TO CURRENT POWERED RUNWAY EDGE CIRCUIT IF APPLICABLE. PROVISIONS HAVE BEEN INCLUDED FOR THE RUNWAY CIRCUIT SCENARIO.
824. 2" PVC SCH. 40 CONDUIT FOR ELECTRICAL DRAINAGE (TYP.), ITEM L-110.

A1 KEYED NOTES

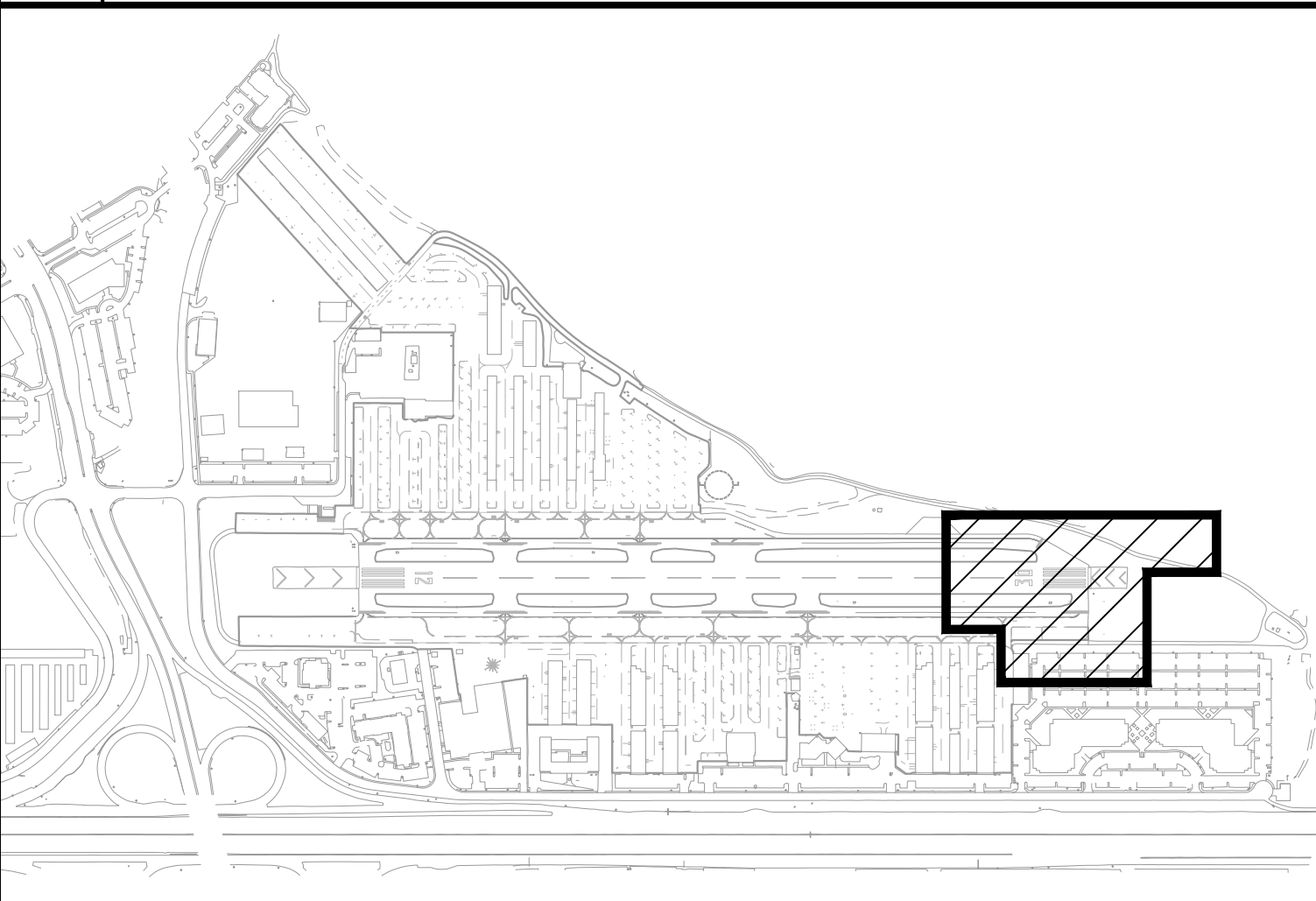
SCALE: NOT TO SCALE

A2 ELECTRICAL PLANS

SCALE: 1" = 30'

B4 LEGEND

SCALE: NOT TO SCALE



A4 KEY MAP

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

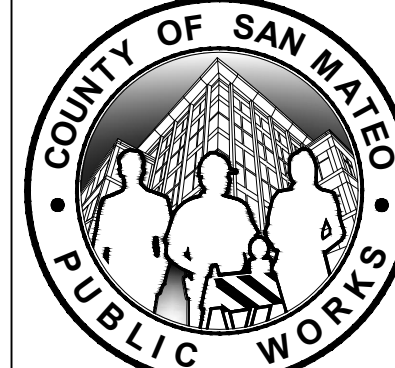
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Phone: 916-364-1470
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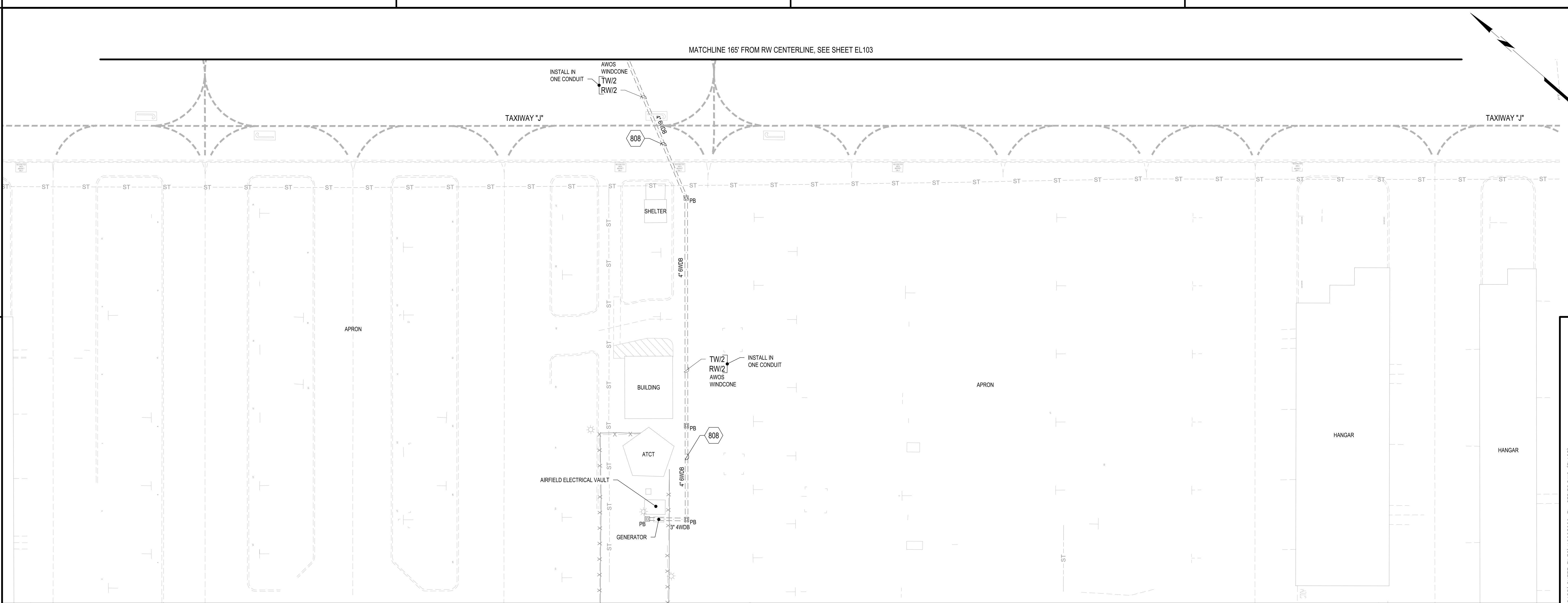
APPROVED DATE: 01-27-2023

Barton T. Peters
BARTON T. PETERS
C&S ENGINEERS, INC.

R.C.E. # E 18924 EXPIRES 12-31-2023



		DESIGNED BY: C.B.	ELECTRICAL PLANS RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION		SCALE: 1" = 30'
		CHECKED BY: D.M.			DATE: JANUARY 2023
		DRAWN BY: S.D.			FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
		SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
REVISION	DATE				
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
		0 1 2 3 4			
		EL104 SHEET 450F 53			



B1 AIRFIELD ELECTRICAL HOMERUN PLAN

SCALE: 1" = 30'

808. NO. 8 AWG, 5KV, 1/C AIRFIELD LIGHTING CABLE(S) IN EXISTING DUCT BANK/CONDUIT, ITEM L-108.

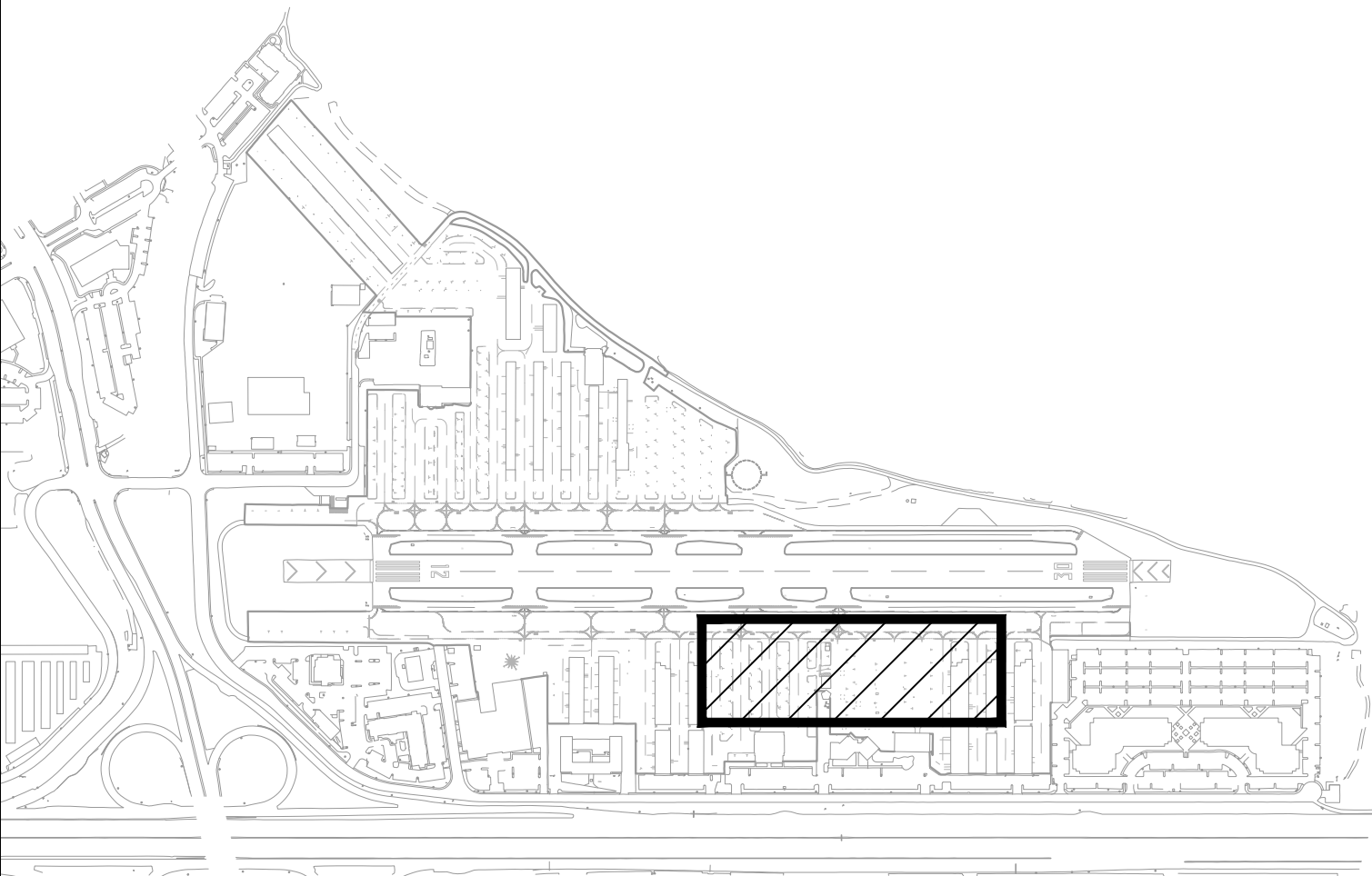
 EXISTING ELECTRICAL PULL BOX (TYP.)


A1 KEYED NOTES AND LEGEND

SCALE: NOT TO SCALE

A4 KEY MAP


SCALE: NOT TO SCALE

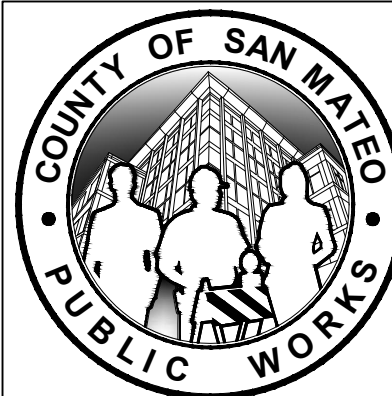


APPROVED:
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

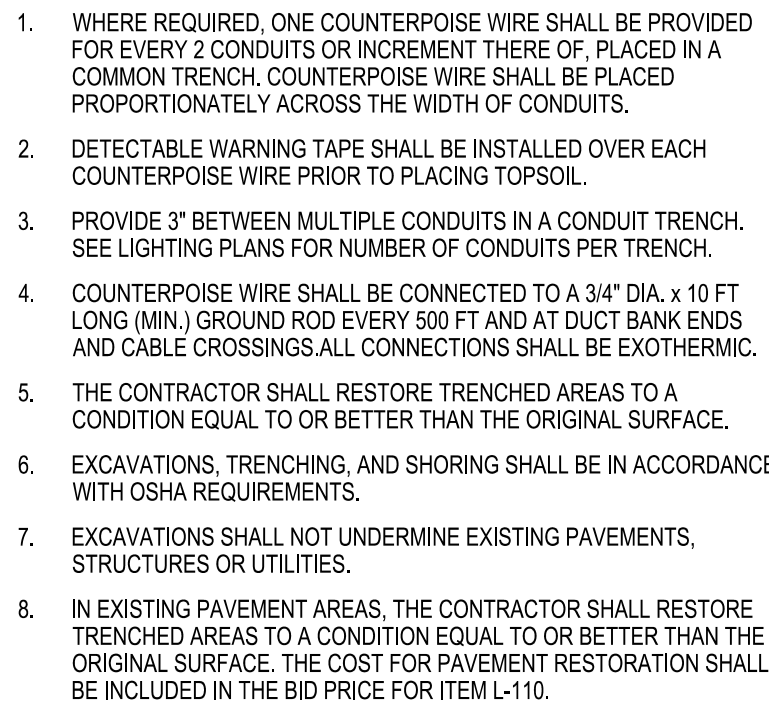
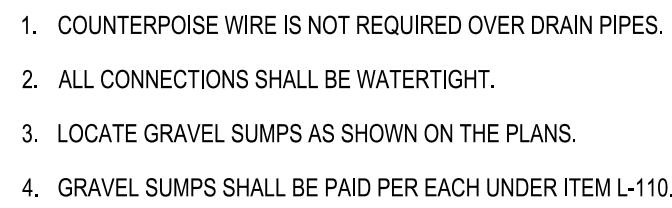
C&S Engineers, Inc.
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Sacramento, California 95826
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APPROVED DATE: 01-27-2023

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023

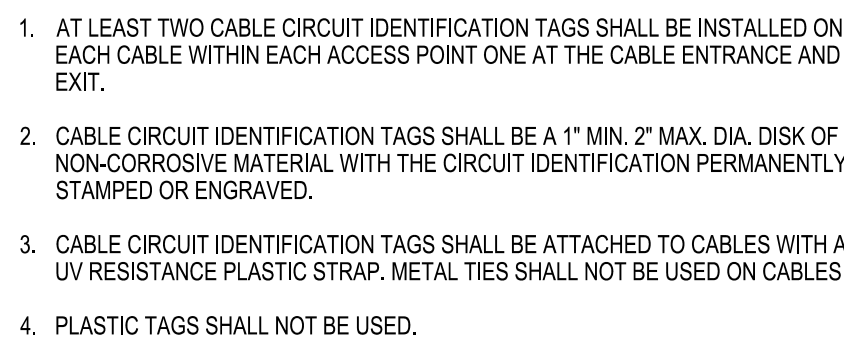
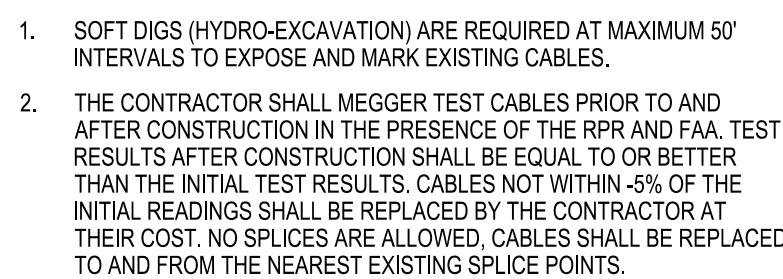


		DESIGNED BY: C.B.	AIRFIELD ELECTRICAL HOMERUN PLAN		SCALE: 1" = 30'
		CHECKED BY: D.M.	RUNWAY 12-30 AND CONNECTOR TAXIWAYS		DATE: JANUARY 2023
		DRAWN BY: S.D.	REHABILITATION		FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
REVISION	DATE	SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
		<div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>			
		EL105			
		SHEET 460F 53			



SCALE: NOT TO SCALE

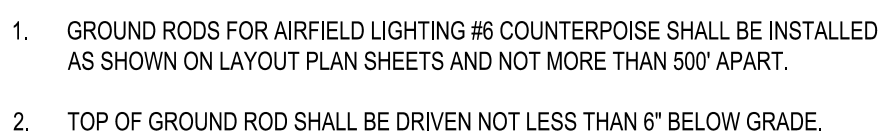
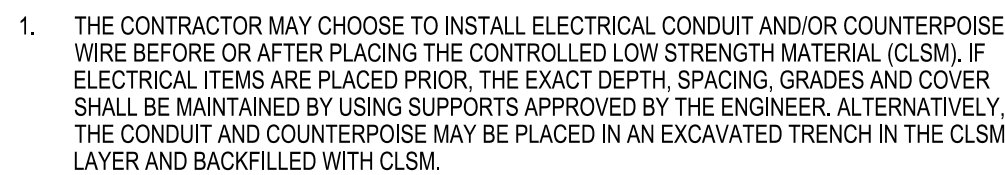
SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

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SCALE: NOT TO SCALE

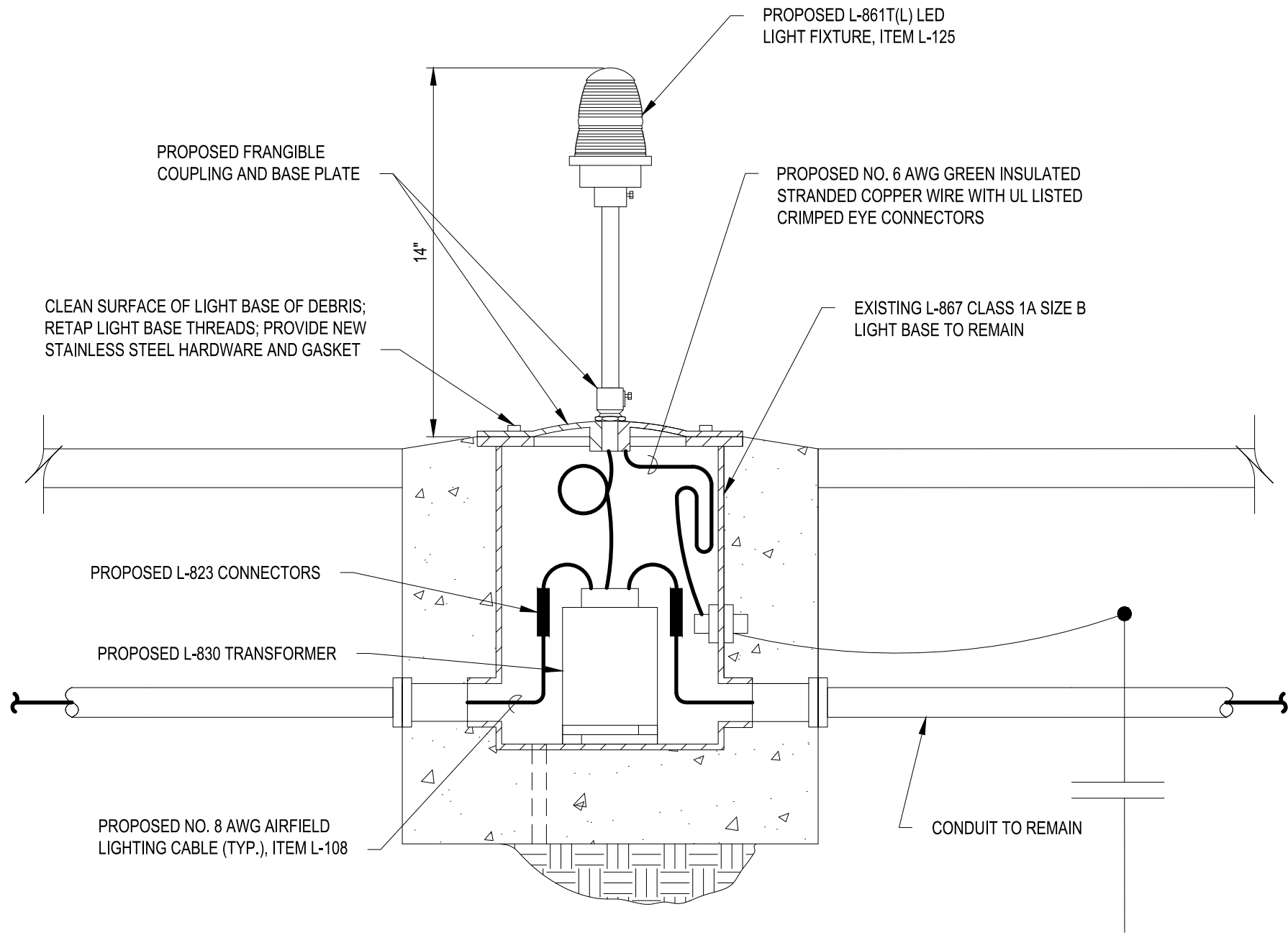
SCALE: NOT TO SCALE



1. THE CONTRACTOR SHALL PROVIDE AND TURN OVER THE FOLLOWING SPARE LIGHT AND SIGN PARTS IN NEW, UNPACKAGED CONDITION TO AIRPORT MANAGEMENT.
- (1) SEMI-FLUSH RUNWAY EDGE LIGHT (W/W)
 - (1) SEMI-FLUSH TAXIWAY EDGE LIGHT (B)
 - (2) ELEVATED RUNWAY EDGE LIGHT (W/W)
 - (2) ELEVATED RUNWAY THRESHOLD LIGHT (G/R)
 - (15) ELEVATED TAXIWAY EDGE LIGHT (B)
 - (12) ISOLATION TRANSFORMERS TO MATCH LOADS
 - (5) CORTEN BASE PLATES
 - (4) GUIDANCE SIGN LED LIGHT BARS/LAMPS AND DRIVERS
2. SPARE LIGHT FIXTURES SHALL INCLUDE LIGHT HEADS, STEMS, FRANGIBLE COUPLINGS AND MOUNTING HARDWARE.
3. THE SPARE PARTS SHALL BE DELIVERED AND STORED ON AIRPORT PROPERTY AND WILL BE USED BY AIRPORT MAINTENANCE PERSONNEL AS NEEDED.
4. THE MAXIMUM VALUE OF SPARE PARTS SHALL NOT EXCEED 10% OF THE LIGHT AND SIGN PURCHASE PRICE OR EXCEED A TOTAL VALUE OF \$10,000.

C1 LIGHT AND SIGN FIXTURE SPARE PARTS NOTES

SCALE: NOT TO SCALE

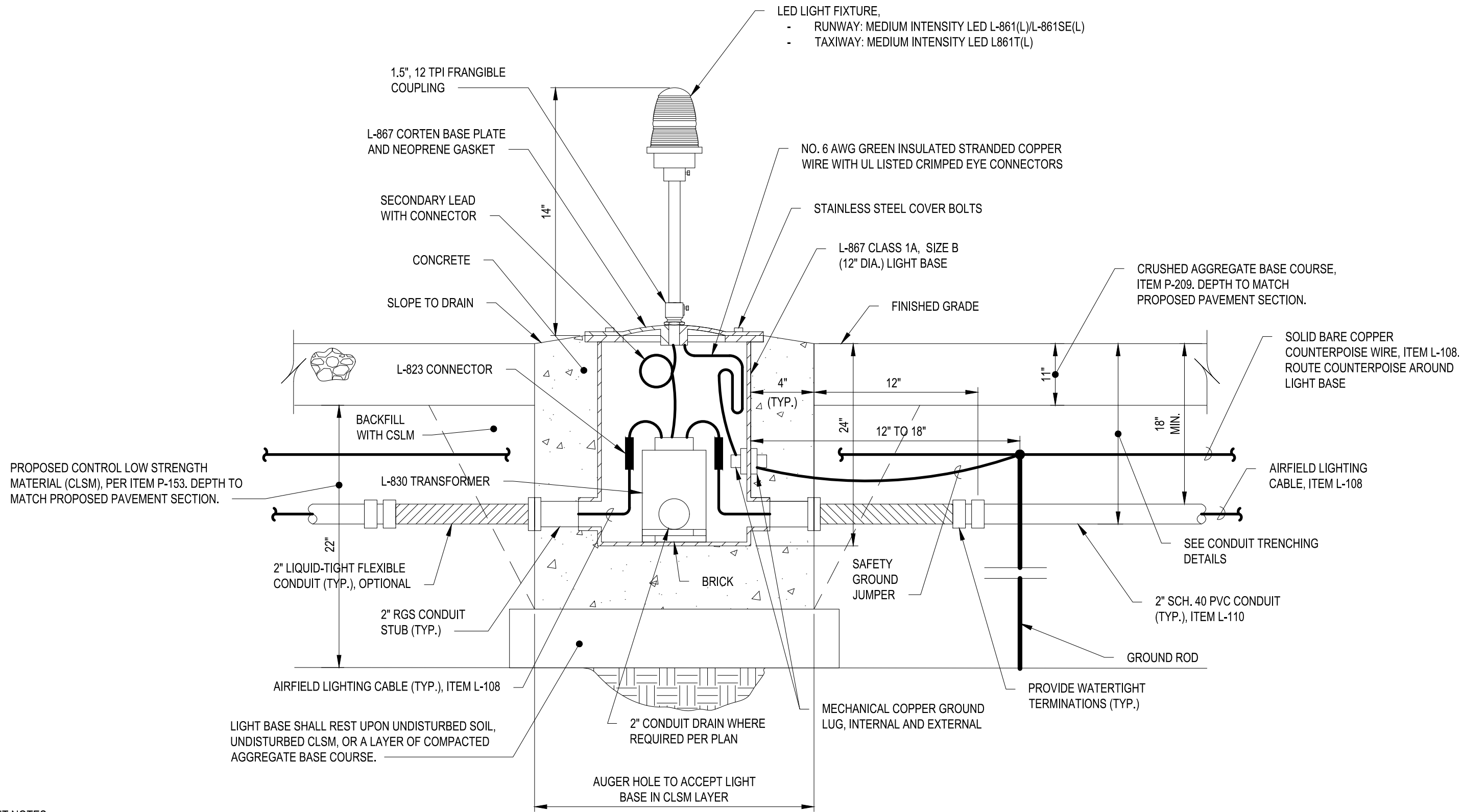


LIGHT NOTES:

- TRANSFORMERS FOR L-861T(L) FIXTURES SHALL BE 6.6 AMP PRIMARY/6.6 AMP SECONDARY. SIZE AS REQUIRED FOR LIGHT FIXTURE.
- PROVIDE A MINIMUM OF 3' OF CABLE SLACK ABOVE THE GROUND SURFACE ON PRIMARY CONDUCTORS, AND GREEN GROUND.

A1 ELEVATED LIGHT UNIT MODIFICATION DETAIL

SCALE: NOT TO SCALE



LIGHT NOTES:

- ALL LIGHT BASES SHALL HAVE A MINIMUM OF TWO CONDUIT STUBS SPACED 180 DEGREES APART. CAP CONDUIT IF STUB IS NOT OCCUPIED. ADDITIONAL CONDUIT STUBS MAY BE REQUIRED. SEE PLANS FOR NUMBER AND LOCATION OF STUBS.
- CONNECT A SAFETY GROUND JUMPER TO THE EXTERNAL GROUND LUG AND ATTACH IT TO A 5/8" DIA. x 8 FT LONG (MIN.) GROUND ROD.
- CONDUIT OUTBOARD OF THE FLEXIBLE CONDUIT AND AIRFIELD LIGHTING CABLES ARE PAID FOR SEPARATELY. ALL OTHER ITEMS ARE INCLUDED IN PAYMENT FOR THE EDGE LIGHT.
- TRANSFORMERS FOR FIXTURES SHALL BE 6.6 AMP PRIMARY/6.6 AMP SECONDARY. SIZE AS REQUIRED FOR LIGHT FIXTURE.
- PROVIDE A MINIMUM OF 3' OF CABLE SLACK ABOVE THE GROUND SURFACE ON PRIMARY CONDUCTORS, AND GREEN GROUND.
- WHERE REQUIRED ON THE PLANS, PROVIDE A 2" PVC DRAIN CONNECTOR TO A HUB 90° TO THE LIGHT BASE THAT CONNECTS TO THE GRAVEL SUMP. DRAINS ARE TO BE POSITIONED AT LOW POINTS IN THE SYSTEM. SEE DETAIL C3/EL501.
- PRECAST LIGHT BASES ARE HIGHLY RECOMMENDED DUE TO SCHEDULE CONSTRAINTS.
- PROVIDE GLASS LENSES, NO ARCTIC KIT.
- LIGHT BASE SHALL BE LEVEL AND PLUMB.

A3 ELEVATED LIGHT IN AGGREGATE BASE COURSE DETAIL (BASE MOUNTED)

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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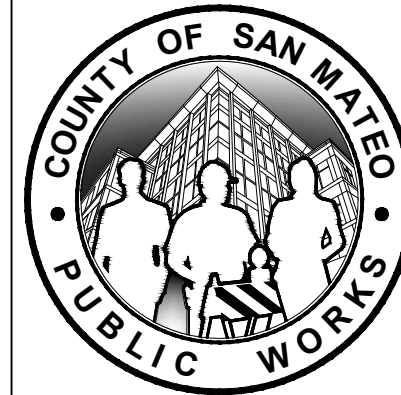


APPROVED DATE: 01-27-2023

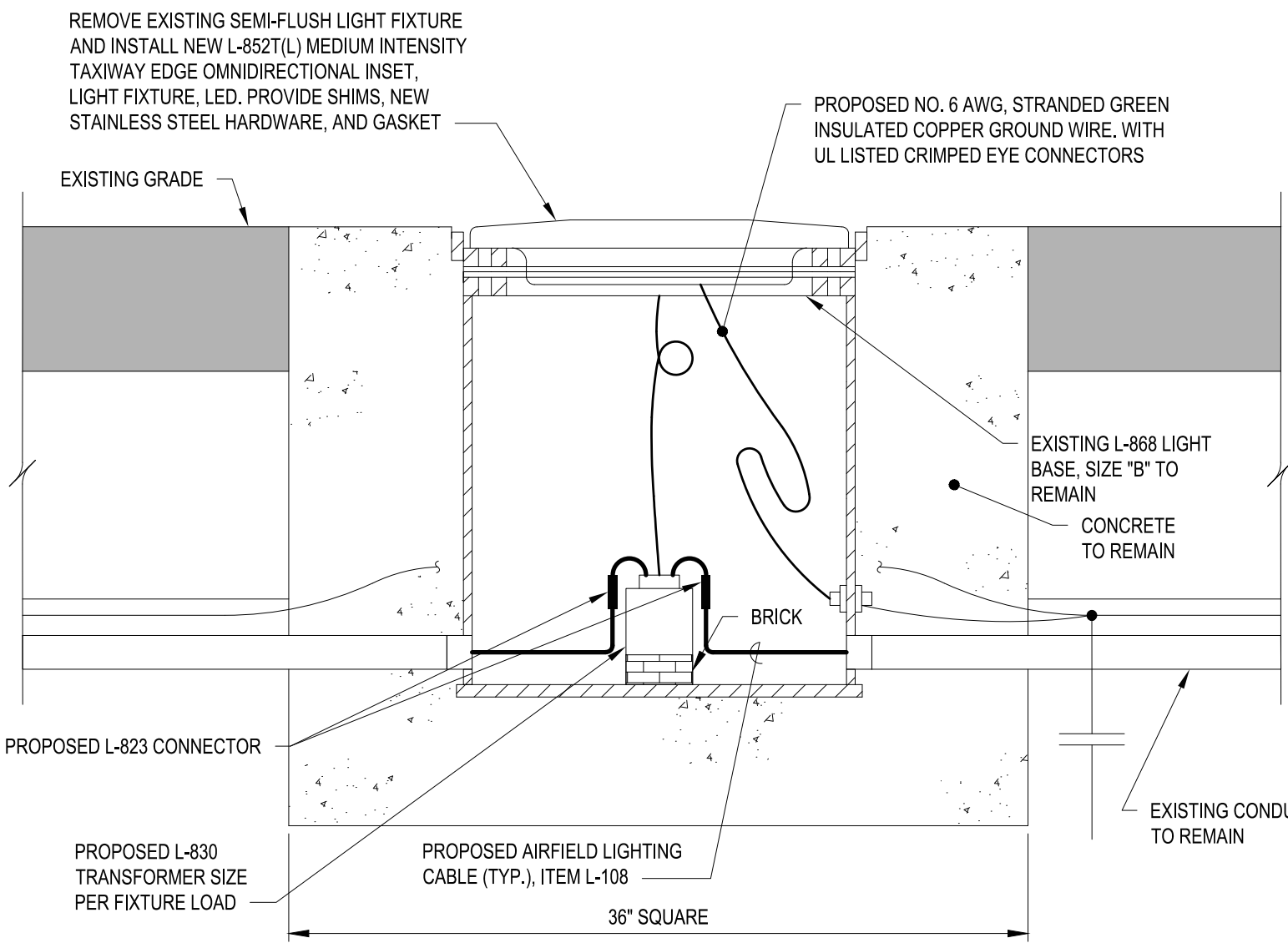
Barton T. Peters

C&S ENGINEERS, INC.

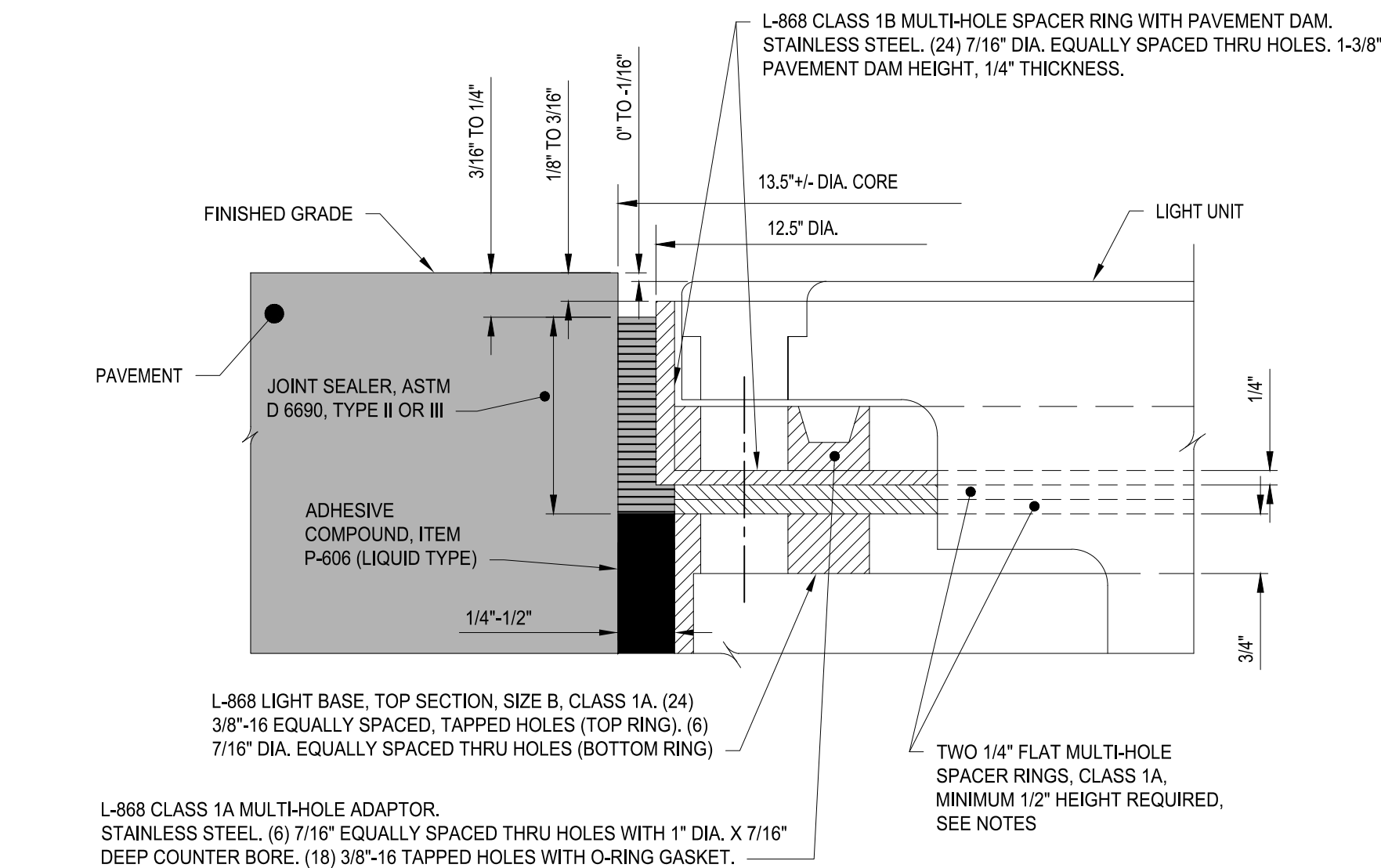
R.C.E. # E 18924 EXPIRES 12-31-2023




		DESIGNED BY: C.B.	ELEVATED LIGHT DETAILS		SCALE: NOT TO SCALE
		CHECKED BY: D.M.	RUNWAY 12-30 AND CONNECTOR TAXIWAYS		DATE: JANUARY 2023
		DRAWN BY: S.D.	REHABILITATION		FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
REVISION	DATE	SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES			
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		EL502			
		SHEET 480F 53			



B1 SEMI-FLUSH TAXIWAY LIGHT UNIT MODIFICATION DETAIL
SCALE: NOT TO SCALE



A1 SEMI-FLUSH LIGHT ASSEMBLY AND SEALING DETAIL
SCALE: NOT TO SCALE



APPROVED:

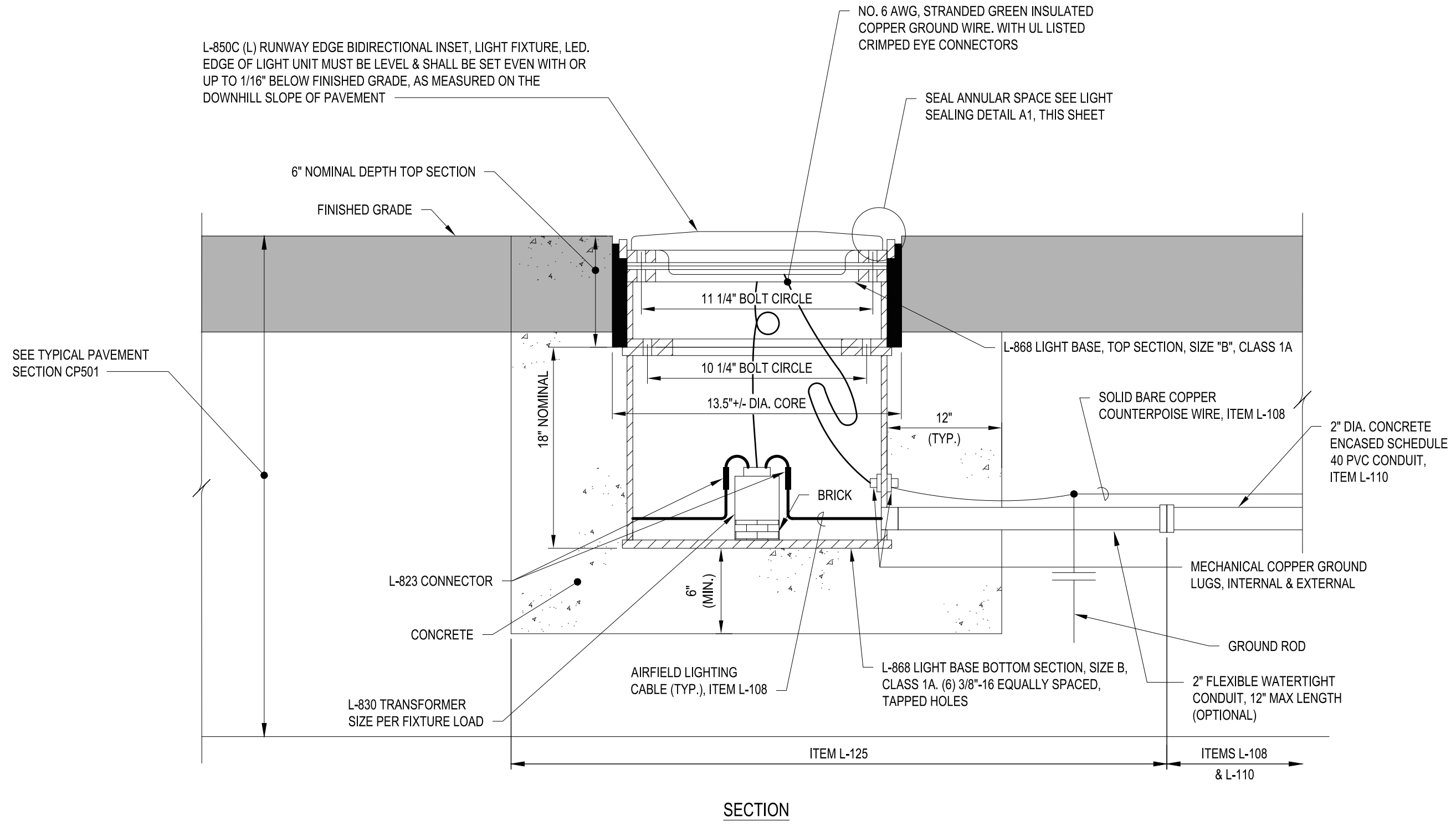
DATE: 1/27/2023

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

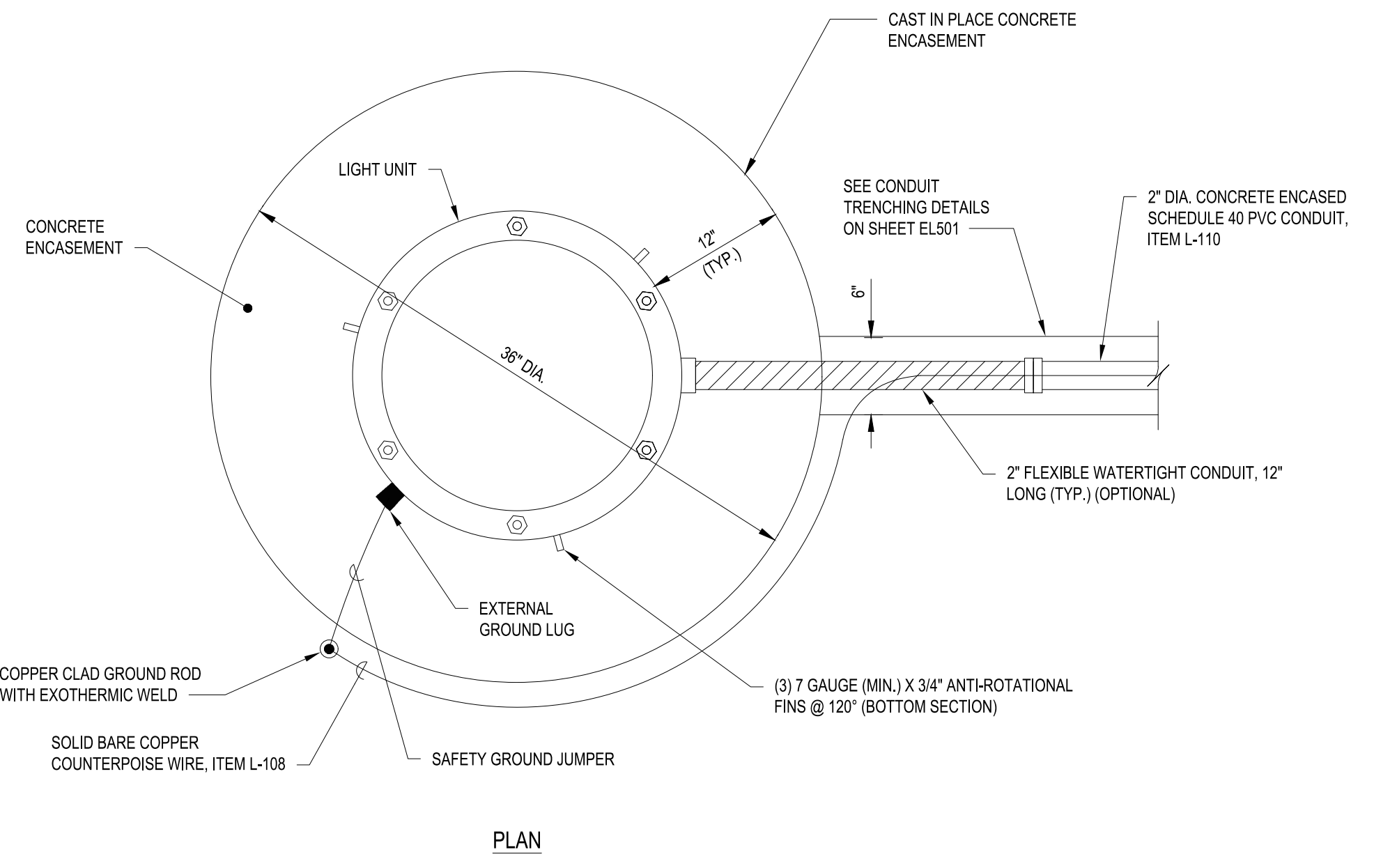
1. INSTALL BOTTOM SECTION IN CONCRETE USING A JIG TO PRECISELY HOLD THE REQUIRED LOCATION, AZIMUTH AND ELEVATION.
2. PROVIDE AND INSTALL 5/8" PLYWOOD (OR 3/4" STEEL) COVER AND MUD/TARGET PLATE. SURVEY AND RECORD THE EXACT CENTER LOCATION.
3. PAVE SURFACE COURSE TO FINISHED GRADE COVERING THE BOTTOM SECTION LIGHT BASE.
4. CORE DRILL ASPHALT PAVEMENT SECTION TO REMOVE MUD PLATE AND PLYWOOD COVER. TWO CORES ARE REQUIRED. THE FIRST 4 1/2" CORE WILL EXPOSE THE CENTER LOCATION OF THE TARGET PLATE. THE SECOND LARGER CORE CAN THEN BE PRECISELY CENTERED ON THE LIGHT BASE. CONTRACTOR SHALL CONFIRM REQUIRED CORE DIAMETER BASED ON PARTS SUPPLIED. MINIMUM GAP BETWEEN THE CORED ASPHALT AND THE LARGEST DIMENSION OF THE LIGHT BASE COMPONENTS SHALL BE 1/4", MAXIMUM GAP SHALL BE 1/2".
5. INSTALL NOMINAL DEPTH LIGHT BASE TOP SECTION. THE CONTRACTOR MAY ELECT TO HAVE AN AVAILABLE STOCK OF A VARIETY OF SPACER RINGS OR TOP SECTIONS TO MAKE ELEVATION ADJUSTMENTS. REQUIRED HEIGHT WILL BE SUBJECT TO FINAL ASPHALT PAVEMENT ELEVATION AND WILL VARY BASED ON LOCATION AND PLACEMENT TOLERANCES. ACCEPTABLE PAVEMENT TOLERANCES ARE GENERALLY ±0.5" - CONFIRM WITH PAVEMENT CONTRACTOR.
6. INSTALL TWO STANDARD 1/4" SPACER RINGS.
7. INSTALL MULTIHOLE SPACER RING WITH PAVEMENT DAM AND MULTIHOLE ADAPTER.
8. INSTALL LIGHTING CABLE, CONNECTORS, AND L-830 ISOLATION TRANSFORMER.
9. INSTALL LIGHT UNIT.
10. IF THE LIGHT UNIT IS TOO HIGH, REPLACE THE TOP SECTION WITH A SHORTER ONE.
11. IF THE BASE PLATE IS TOO LOW, REPLACE THE TOP SECTION WITH A LONGER ONE, OR IF THE ADJUSTMENT IS MINOR, CORRECT WITH SPACER RINGS. USE NO MORE THAN A TOTAL OF 2 SPACER RINGS. THE TOTAL THICKNESS OF THE 2 SPACER RINGS SHALL NOT EXCEED 2".
12. THE INTENT OF THE 2 STANDARD SPACER RINGS IS TO GIVE THE OWNER THE ABILITY OF MAKING ELEVATION ADJUSTMENTS WITHOUT THE NEED TO REPLACE THE TOP SECTION.
13. SEAL ANNULAR SPACE WITH ITEMS P-606 AND ITEM P-605. ENSURE THAT THE SEALANTS DO NOT ENTER THE LIGHT BASE VIA JOINTS, SEAMS, ETC.
14. APPLY GE RTV-118 SILICONE SEALANT OR EQUAL TO ALL MATED METAL SURFACES EXCEPT BETWEEN THE GROOVED FLANGE RING AND THE LIGHT UNIT.
15. ADDITIONAL CONDUIT HUBS MAY BE REQUIRED, SEE LIGHTING PLANS FOR NUMBER AND LOCATION OF STUBS.
16. TRANSFORMERS FOR FIXTURES SHALL BE 6.6 AMP PRIMARY/6.6 AMP SECONDARY.
17. AIRFIELD LIGHTING CABLES, COUNTERPOISE WIRE AND PVC CONDUIT ARE PAID FOR SEPARATELY. ALL OTHER ITEMS ARE INCLUDED IN PAYMENT FOR THE LIGHT UNIT.
18. PROVIDE A MINIMUM OF 3' OF SLACK ABOVE THE GROUND SURFACE ON PRIMARY CONDUCTORS AND GREEN GROUND.
19. THE CONTRACTOR SHALL BE ADVISED OF THE STRICT ELEVATION AND AZIMUTH TOLERANCES ASSOCIATED WITH SEMI-FLUSH LIGHTS AND SHALL TAKE EXTREME CARE IN ACHIEVING THE TOLERANCES SPECIFIED.
20. THE CONTRACTOR SHALL BE ADVISED THAT THE LIGHT BASE ORIENTATION IS CRITICAL TO ACHIEVE THE LIGHT BEAM AZIMUTH REQUIRED. ALL LIGHTS SHALL BE INSTALLED TO THE ANGLES REQUIRED WITHIN A TOLERANCE OF ± 1°.


B2 SEMI-FLUSH LIGHT INSTALLATION NOTES
SCALE: NOT TO SCALE

- NOTES:
1. SEMI-FLUSH LIGHT FIXTURE AND MULTIHOLE ADAPTER RING HARDWARE SHALL BE 3/8"-16 GRADE 5 HEX POINT FLUOROPOLYMER (PTFE) COATED BOLTS WITH ANTI-VIBRATION (2 PART) LOCK WASHERS. LENGTH SHALL BE AS REQUIRED TO PROVIDE FULL THREAD ENGAGEMENT PLUS A MINIMUM OF 1/2" INTO LIGHT BASE TOP FLANGE. TWO SETS OF BOLTS ARE REQUIRED, ONE FOR THE MULTIHOLE ADAPTOR PLATE AND SPACERS BELOW AND ONE SET FOR THE LIGHT FIXTURES.
 2. TORQUE BOLTS HOLDING LIGHT FIXTURE, BLANK LIDS AND MULTIHOLE ADAPTER RING PER FAA EB-83 AND MANUFACTURER RECOMMENDATIONS. TORQUE REMAINING BOLTS HOLDING TOP LIGHT BASE EXTENSION TO LOWER LIGHT BASE PER MANUFACTURER'S SPECIFICATIONS. PROVIDE TORQUE VALVE TO AIRPORT OPERATION AND THE RPR APPROVAL BEFORE IMPLEMENTATION.
 3. ALL STAINLESS STEEL BOLT THREADS SHALL BE COATED WITH NON-METALLIC ANTI-SEIZE COMPOUND BEFORE INSERTION OF BOLT. DO NOT USE ANY ANTI-SEIZE COMPOUND OR LUBRICATION ON GRADE 5 FLUOROPOLYMER COATED BOLTS.
 4. ALL BOLTS SHALL BE PROVIDED WITH STAINLESS STEEL ANTI-VIBRATION (2 PART) LOCK WASHERS OR APPROVED EQUIVALENT PER FAA EB-83.
 5. IMPACT DRIVERS AND OVER TORQUING ARE NOT ALLOWED.
 6. ALL THREADS SHALL BE CHASED, RE-TAPPED AND CLEANED AS NECESSARY PRIOR TO BOLT INSTALLATION.
 7. LIGHT FIXTURE BOLTS SHALL PROVIDE FULL THREAD ENGAGEMENT INTO THE MULTIHOLE ADAPTOR PLATE BUT NOT INTO THE LIGHT BASE THREADS.



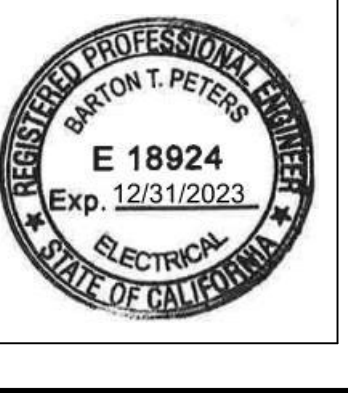
A3 SEMI-FLUSH RUNWAY LIGHT DETAIL
SCALE: NOT TO SCALE

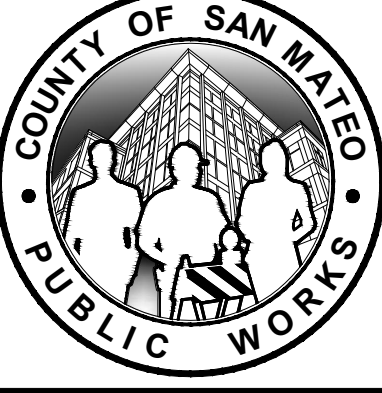




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BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023



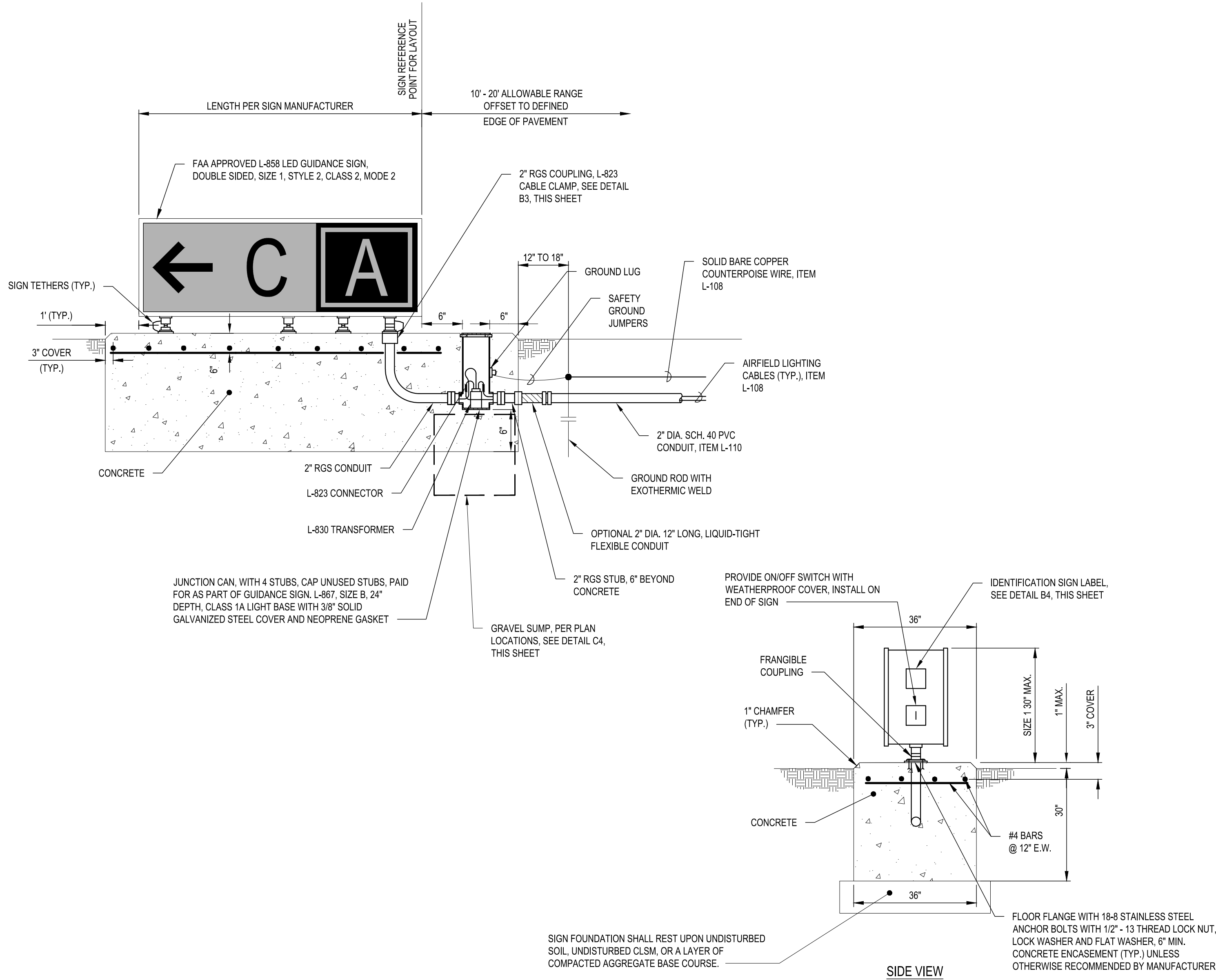


DESIGNED BY: C.B.	SEMI-FLUSH LIGHT DETAILS RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	SCALE: NOT TO SCALE
CHECKED BY: D.M.		DATE: JANUARY 2023
DRAWN BY: S.D.		FILE NO.: 15077
ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS	SAN MATEO COUNTY	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE	EL503 SHEET 490F 53

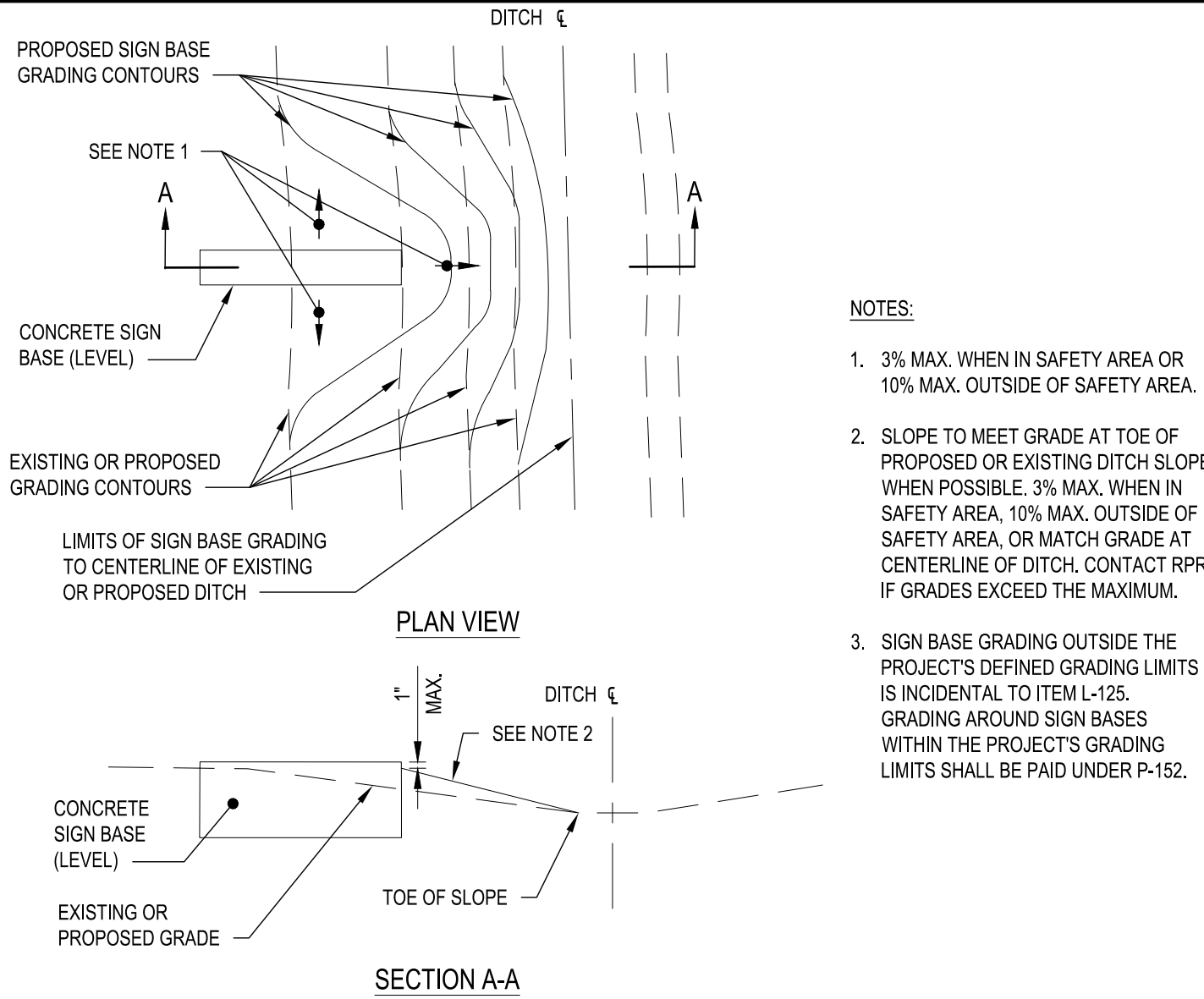
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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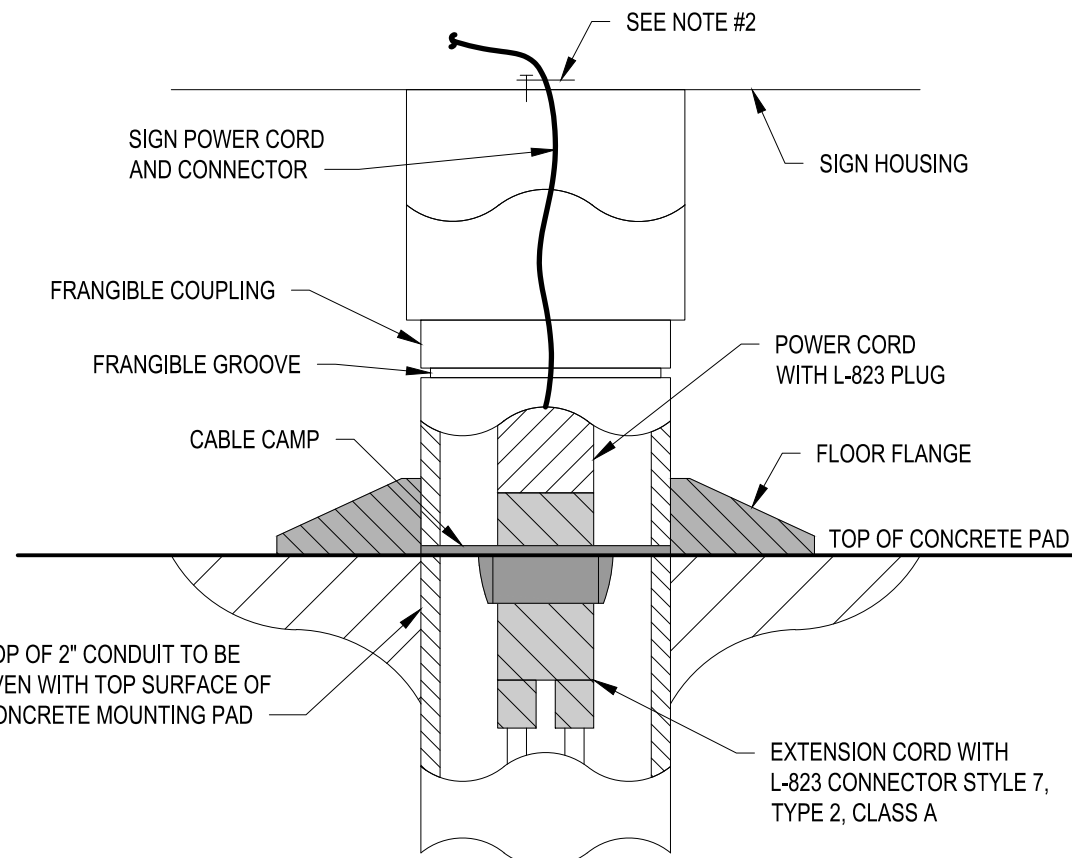
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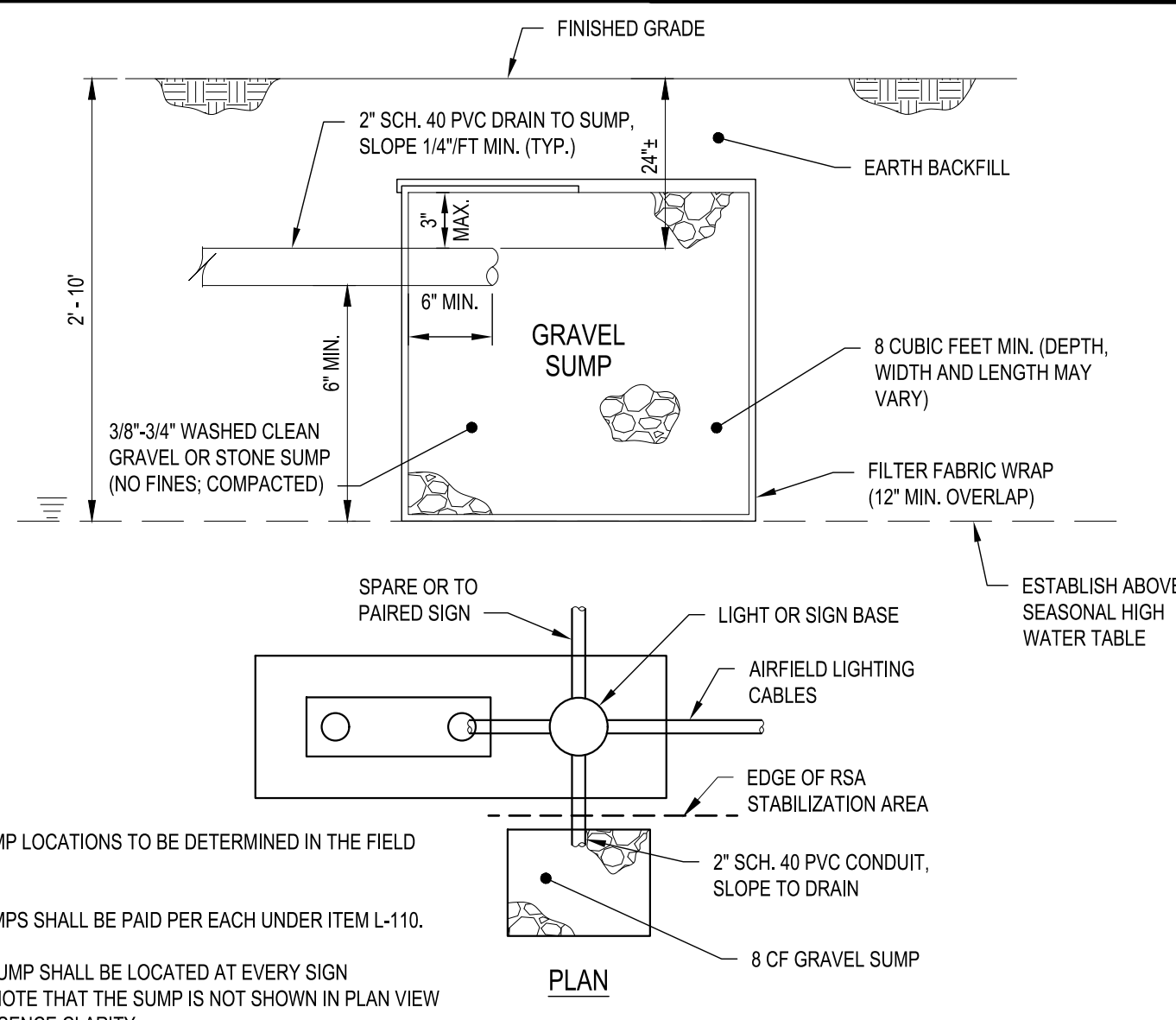
B1 GUIDANCE SIGN DETAIL
SCALE: NOT TO SCALE



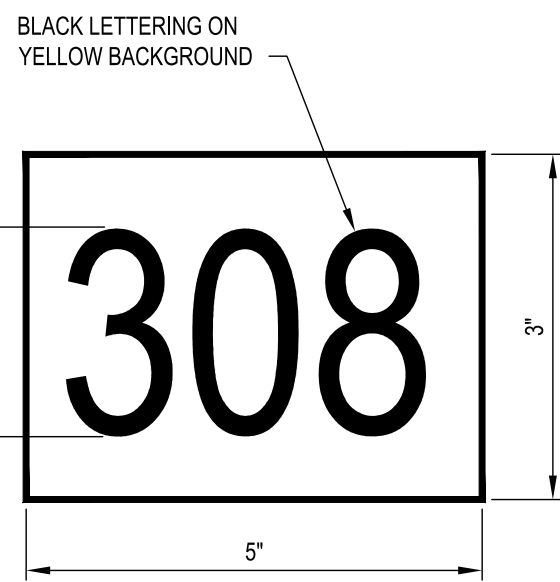
C3 AIRFIELD GUIDANCE SIGN GRADING DETAIL
SCALE: NOT TO SCALE



B3 GUIDANCE SIGN ELECTRICAL CONNECTION DETAIL
SCALE: NOT TO SCALE



C4 GRAVEL SUMP DRAINAGE DETAIL
SCALE: NOT TO SCALE



B4 AIRFIELD GUIDANCE SIGN IDENTIFICATION DETAIL
SCALE: NOT TO SCALE

- SIGNS SHALL BE CENTERED ON CONCRETE PAD.
- SIGNS THAT CONSIST OF MULTIPLE SEPARATE MODULES NOT CONNECTED TOGETHER MUST HAVE A MINIMUM OF ONE TETHER PER MODULE.
- SIGNS THAT USE MULTIPLE MODULES CONNECTED TOGETHER IN A CONTINUOUS GRAME MUST USE A TETHER AT BOTH ENDS.
- JUNCTION CANS FOR GUIDANCE SIGNS SHALL HAVE 4 CONDUIT HUBS SPACED AT 90°. ALL THREE STUBS SHALL EXTEND OUTSIDE THE CONCRETE FOUNDATION. CAP UNUSED CONDUITS.
- SIGN, FOUNDATION, JUNCTION CAN, CONDUIT AND WIRE BETWEEN SIGN AND JUNCTION CAN, FLEXIBLE CONDUIT, TRANSFORMER AND ANCHOR BOLTS SHALL BE INCLUDED IN COST OF THE SIGN.
- THE SIGN MODULES ARE BASED ON TWO CHARACTERS PER MODULE. WHEN DETERMINING THE NUMBER OF CHARACTERS IN A GUIDANCE SIGN, THE FIGURES 1 AND - SHALL BE CONSIDERED ONE-HALF OF A CHARACTER. PAYMENT WILL BE MADE BASED ON THE NUMBER OF MODULES SPECIFIED IN THE CONTRACT, REGARDLESS OF IF ADDITIONAL MODULES ARE REQUIRED BY A PARTICULAR MANUFACTURER.
- THE OWNER RESERVES THE RIGHT TO CHANGE SIGN MESSAGE INFORMATION PRIOR TO FINAL APPROVAL.
- FLEXIBLE CONDUIT MAY BE USED WHERE NECESSARY. OTHERWISE USE STANDARD PVC TO RGS CONNECTORS.
- CONTRACTOR IS ADVISED THAT L-830 TRANSFORMERS WILL VARY WITH EACH INDIVIDUAL SIGN AS A RESULT OF WATTAGE AND CURRENT RATINGS FOR THE VARIOUS SIGN SIZE (MODULES) AND CIRCUIT TO BE INSTALLED ON. IT IS THE CONTRACTORS RESPONSIBILITY TO WORK WITH THE SIGN MANUFACTURER TO SUPPLY THE APPROPRIATE L-830 ISOLATION TRANSFORMER FOR EACH NEW SIGN. CONTRACTOR SHALL SUBMIT ISOLATION TRANSFORMER SIZE WITH SIGN SUBMITTAL PACKAGE FOR APPROVAL FROM THE ENGINEER PRIOR TO ACCEPTANCE ON THE PROJECT.
- THE CONTRACTOR IS ADVISED THAT FOUNDATION SIZES FOR NEW SIGNS WILL VARY AS A RESULT OF THE NUMBER OF SIGN MODULES, SIGN MANUFACTURE REQUIREMENTS, SIZE OF JUNCTION CAN, AND SPECIFIED FOUNDATION OVERHANGS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY THE VARIABLE FOUNDATION LENGTHS REQUIRED FOR EACH SIGN AND ACCOUNT FOR THE COSTS UNDER THE RESPECTIVE AIRFIELD GUIDANCE SIGN BID ITEMS.
- SIGN FOUNDATIONS SHALL BE INSTALLED WITH THE JUNCTION CAN NEAREST THE EDGE OF PAVEMENT.
- THE SIGN TOP SHALL BE REMOVABLE FOR MAINTENANCE AND ALLOW FOR VERTICAL/UPWARDS SIGN PANEL REMOVAL/REINSTALLATION.
- SIGN PANELS SHALL BE MODULAR AND NOT FORMED IN ONE CONTINUOUS PIECE.
- PROVIDE THE STRONGEST PANELS PRODUCED BY THE PARTICULAR MANUFACTURER.
- SIGN MANUFACTURER SHALL MOUNT ALL POWER, CONTROL, AND CIRCUIT BOARDS IN A PROTECTED LOCATION WITHIN THE SIGN HOUSING.
- SIGN MANUFACTURER SHALL PROVIDE A DRAINAGE HOLE WITH SCREEN IN THE BOTTOM OF THE SIGN HOUSING TO OUTLET INTERNAL MOISTURE.

A3 AIRFIELD GUIDANCE SIGN NOTES
SCALE: NOT TO SCALE

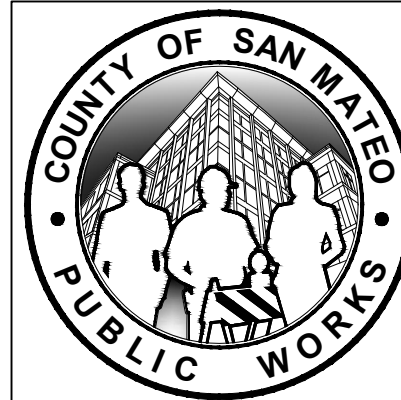


APPROVED:
DATE: 1/27/2023
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023



		DESIGNED BY: C.B.	AIRFIELD SIGNAGE DETAILS		SCALE: NOT TO SCALE
		CHECKED BY: D.M.	RUNWAY 12-30 AND CONNECTOR TAXIWAYS		DATE: JANUARY 2023
		DRAWN BY: S.D.	REHABILITATION		FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR	
REVISION	DATE	SAN MATEO COUNTY		REDWOOD CITY, CALIFORNIA 94063	
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>			EL504 SHEET 500F 53

SIGN NUMBER	NUMBER OF MODULES		PROPOSED SIGN LEGEND	
			SIDE 1	SIDE 2
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		TYPE	<div><div>L R</div></div>	
2	2	DESIGNATION	<div><div>← B</div></div>	
		TYPE	<div><div>Y</div></div>	
3	2	DESIGNATION	<div><div>12 B</div></div>	
		TYPE	<div><div>R L</div></div>	
4	2	DESIGNATION		<div><div>12 B</div></div>
		TYPE		<div><div>R L</div></div>
5	2	DESIGNATION		<div><div>B →</div></div>
		TYPE		<div><div>Y</div></div>
6	2	DESIGNATION		<div><div>B 12</div></div>
		TYPE		<div><div>L R</div></div>
7	3	DESIGNATION	<div><div>PARK →</div></div>	
		TYPE	<div><div>Y</div></div>	
8	4	DESIGNATION	<div><div>C 12-30</div></div>	
		TYPE	<div><div>L R</div></div>	
9	2	DESIGNATION		<div><div>C →</div></div>
		TYPE		<div><div>Y</div></div>
10	2	DESIGNATION	<div><div>← C</div></div>	
		TYPE	<div><div>Y</div></div>	
11	4	DESIGNATION	<div><div>12-30 C</div></div>	
		TYPE	<div><div>R L</div></div>	
12	2	DESIGNATION	<div><div>← C</div></div>	
		TYPE	<div><div>Y</div></div>	
13	4	DESIGNATION	<div><div>30-12 C</div></div>	
		TYPE	<div><div>R L</div></div>	
14	4	DESIGNATION	<div><div>C 30-12</div></div>	
		TYPE	<div><div>L R</div></div>	
15	2	DESIGNATION		<div><div>C →</div></div>
		TYPE		<div><div>Y</div></div>
16	4	DESIGNATION	<div><div>D 12-30</div></div>	
		TYPE	<div><div>L R</div></div>	
17	2	DESIGNATION		<div><div>D →</div></div>
		TYPE		<div><div>Y</div></div>
18	2	DESIGNATION	<div><div>← D</div></div>	
		TYPE	<div><div>Y</div></div>	
19	4	DESIGNATION	<div><div>12-30 D</div></div>	
		TYPE	<div><div>R L</div></div>	
20	2	DESIGNATION	<div><div>← D</div></div>	
		TYPE	<div><div>Y</div></div>	
21	4	DESIGNATION	<div><div>30-12 D</div></div>	
		TYPE	<div><div>R L</div></div>	
22	4	DESIGNATION	<div><div>D 30-12</div></div>	
		TYPE	<div><div>L R</div></div>	
23	2	DESIGNATION		<div><div>D →</div></div>
		TYPE		<div><div>Y</div></div>
24	4	DESIGNATION	<div><div>E 12-30</div></div>	
		TYPE	<div><div>L R</div></div>	
25	2	DESIGNATION		<div><div>E →</div></div>
		TYPE		<div><div>Y</div></div>
26	2	DESIGNATION	<div><div>← E</div></div>	
		TYPE	<div><div>Y</div></div>	
27	4	DESIGNATION	<div><div>12-30 E</div></div>	
		TYPE	<div><div>R L</div></div>	
28	4	DESIGNATION	<div><div>F 12-30</div></div>	
		TYPE	<div><div>L R</div></div>	

PROPOSED SIGN LEGEND (FUTURE TAXIWAY REALIGNMENT PROJECT, SEE NOTE 1)	
SIDE 1	SIDE 2
<div><div>B1 12</div></div>	
<div><div>L R</div></div>	
<div><div>← B1</div></div>	
<div><div>Y</div></div>	
<div><div>12 B1</div></div>	
<div><div>R L</div></div>	
	<div><div>12 A1</div></div>
	<div><div>R L</div></div>
	<div><div>A1 →</div></div>
	<div><div>Y</div></div>
<div><div>A1 12</div></div>	
<div><div>L R</div></div>	
SIGN MESSAGE NOT CHANGING	
<div><div>B2 12-30</div></div>	
<div><div>L R</div></div>	
	<div><div>B2 →</div></div>
	<div><div>Y</div></div>
<div><div>← B2</div></div>	
<div><div>Y</div></div>	
<div><div>12-30 B2</div></div>	
<div><div>R L</div></div>	
<div><div>← A2</div></div>	
<div><div>Y</div></div>	
<div><div>30-12 A2</div></div>	
<div><div>R L</div></div>	
<div><div>A2 30-12</div></div>	
<div><div>L R</div></div>	
	<div><div>A2 →</div></div>
	<div><div>Y</div></div>
<div><div>B3 12-30</div></div>	
<div><div>L R</div></div>	
	<div><div>B3 →</div></div>
	<div><div>Y</div></div>
<div><div>12-30 B3</div></div>	
<div><div>R L</div></div>	
<div><div>← A3</div></div>	
<div><div>Y</div></div>	
<div><div>30-12 A3</div></div>	
<div><div>R L</div></div>	
<div><div>A3 30-12</div></div>	
<div><div>L R</div></div>	
	<div><div>A3 →</div></div>
	<div><div>Y</div></div>
<div><div>B4 12-30</div></div>	
<div><div>L R</div></div>	
	<div><div>B4 →</div></div>
	<div><div>Y</div></div>
<div><div>← B4</div></div>	
<div><div>Y</div></div>	
<div><div>12-30 B4</div></div>	
<div><div>R L</div></div>	
<div><div>B5 12-30</div></div>	
<div><div>L R</div></div>	

SIGN NUMBER	NUMBER OF MODULES		PROPOSED SIGN LEGEND	
			SIDE 1	SIDE 2
29	2	DESIGNATION		<div><div>F →</div></div>
		TYPE		<div><div>Y</div></div>
30	2	DESIGNATION	<div><div>← F</div></div>	
		TYPE	<div><div>Y</div></div>	
31	4	DESIGNATION	<div><div>12-30 F</div></div>	
		TYPE	<div><div>R L</div></div>	
32	2	DESIGNATION	<div><div>← E</div></div>	
		TYPE	<div><div>Y</div></div>	
33	4	DESIGNATION	<div><div>30-12 E</div></div>	
		TYPE	<div><div>R L</div></div>	
34	4	DESIGNATION	<div><div>E 30-12</div></div>	
		TYPE	<div><div>L R</div></div>	
35	2	DESIGNATION		<div><div>E →</div></div>
		TYPE		<div><div>Y</div></div>
36	2	DESIGNATION	<div><div>G 30</div></div>	
		TYPE	<div><div>L R</div></div>	
37	2	DESIGNATION		<div><div>G →</div></div>
		TYPE		<div><div>Y</div></div>
38	2	DESIGNATION	<div><div>30 G</div></div>	
		TYPE	<div><div>R L</div></div>	
39	2	DESIGNATION	<div><div>← L</div></div>	
		TYPE	<div><div>Y</div></div>	
40	2	DESIGNATION		<div><div>30 L</div></div>
		TYPE		<div><div>R L</div></div>
41	2	DESIGNATION	<div><div>L 30</div></div>	
		TYPE	<div><div>L R</div></div>	

PROPOSED SIGN LEGEND (FUTURE TAXIWAY REALIGNMENT PROJECT, SEE NOTE 1)	
SIDE 1	SIDE 2
	<div><div>B5 →</div></div>
	<div><div>Y</div></div>
<div><div>12-30 B5</div></div>	
<div><div>R L</div></div>	
<div><div>← A4</div></div>	
<div><div>Y</div></div>	
<div><div>30-12 A4</div></div>	
<div><div>R L</div></div>	
<div><div>A4 30-12</div></div>	
<div><div>L R</div></div>	
	<div><div>A4 →</div></div>
	<div><div>Y</div></div>
<div><div>B6 30</div></div>	
<div><div>L R</div></div>	
	<div><div>B6 →</div></div>
	<div><div>Y</div></div>
<div><div>30 B6</div></div>	
<div><div>R L</div></div>	
<div><div>← A5</div></div>	
<div><div>Y</div></div>	
<div><div>30 A5</div></div>	
<div><div>R L</div></div>	
<div><div>A5 30</div></div>	
<div><div>L R</div></div>	

SIGN TYPE LEGEND:

R - INDICATES L-858R MANDATORY INSTRUCTION SIGN
(WHITE INSCRIPTION ON A RED BACKGROUND)

L - INDICATES L-868L LOCATION SIGN
(YELLOW INSCRIPTION ON A BLACK BACKGROUND)

Y - INDICATES L-858Y DIRECTION SIGN
(BLACK INSCRIPTION ON A YELLOW BACKGROUND)

■ - INDICATES A BLANK PANEL

NOTES:

- THE TAXIWAY NAMES WILL CHANGE UNDER THE FUTURE TAXIWAY REALIGNMENT PROJECT. THE SIGN HOUSING SHALL BE SIZED ACCORDINGLY TO ACCOMMODATE THE FUTURE MESSAGE SHOWN. PROVIDE BLANK SPACES/PANELS UNDER THIS PROJECT TO ACCOMMODATE THE EXISTING (SHORTER) MESSAGES.

A1 GUIDANCE SIGN INDEX

SCALE: NOT TO SCALE



APPROVED:

DATE: 1/27/2023

Ann Mader Stillman

ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

C&S Engineers, Inc.
7801 Folsom Boulevard, Suite 210
Sacramento, California 95826
Phone: 916-364-1470
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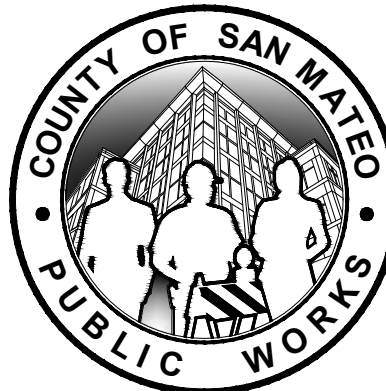
APPROVED DATE: 01-27-2023

Barton T. Peters

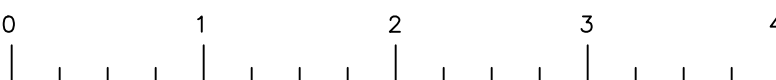
BARTON T. PETERS

C&S ENGINEERS, INC.

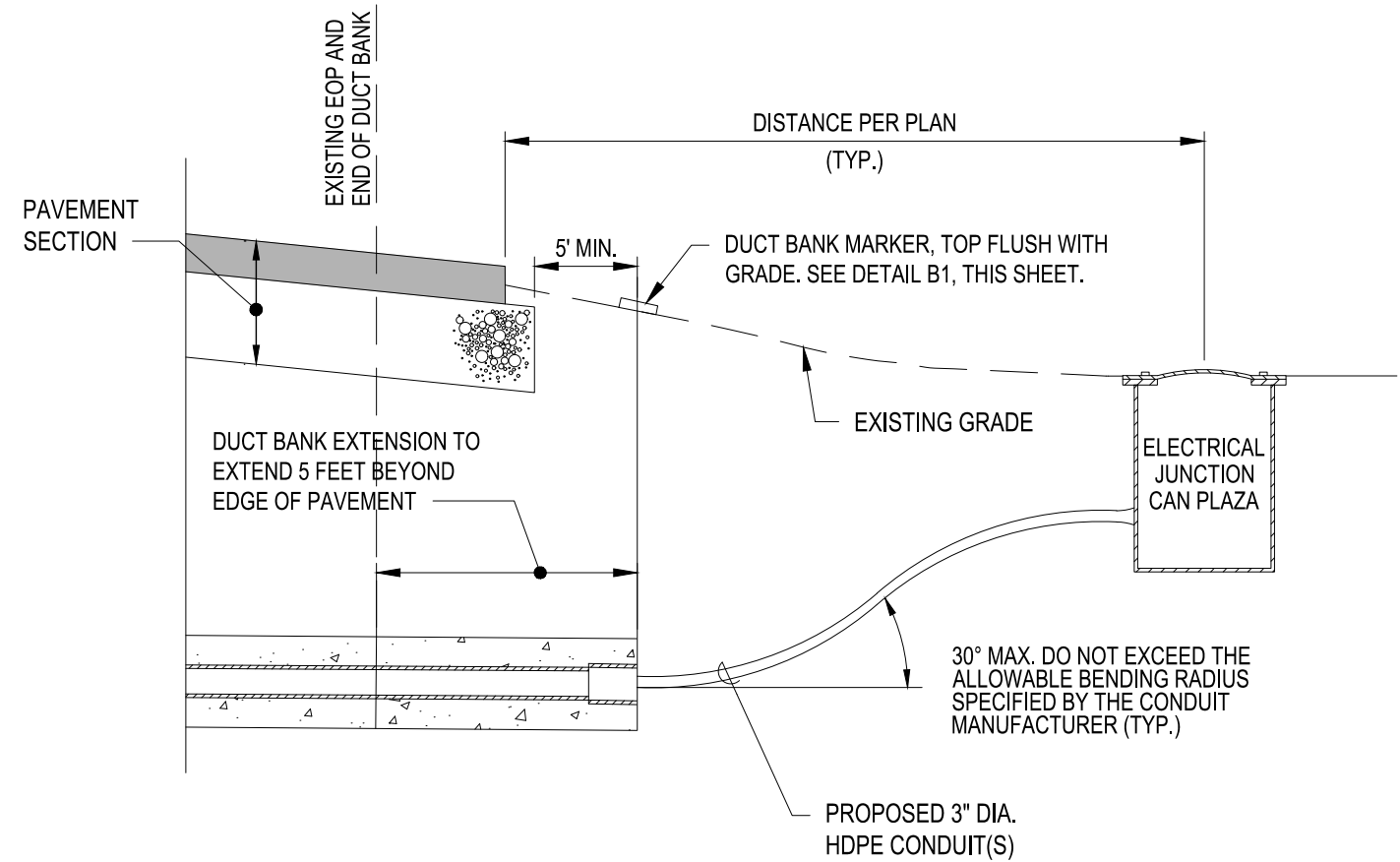
R.C.E. # E 18924 EXPIRES 12-31-2023



		DESIGNED BY: C.B.	AIRFIELD SIGNAGE INDEX RUNWAY 12-30 AND CONNECTOR TAXIWAYS REHABILITATION	SCALE: NOT TO SCALE
		CHECKED BY: D.M.		DATE: JANUARY 2023
		DRAWN BY: S.D.		FILE NO.: 15077
		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS SAN MATEO COUNTY		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063
REVISION	DATE			
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div></div>		EL505 SHEET 51 OF 53

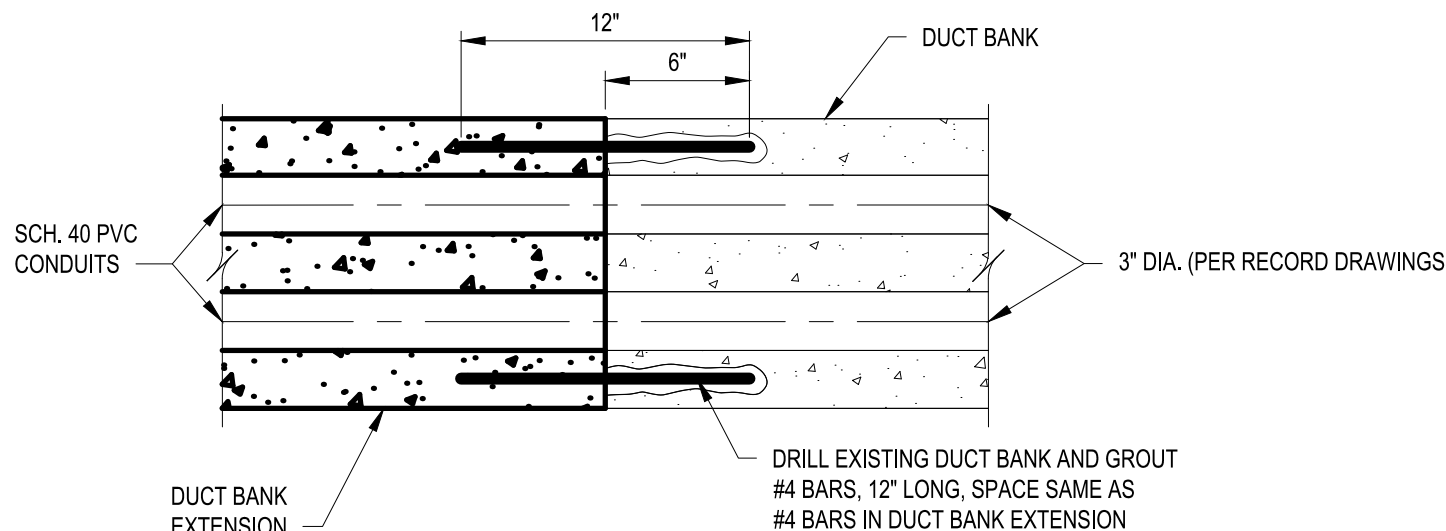


FILENAME: F:\PROJECT\116 - SAN MATEO COUNTY\116.003.009 - SOL RWY - TTY CONNECTOR REHAB\DESIGN\CADD\SHEET FILES\16003009_EL-DDETAILS.DWG (EL505)

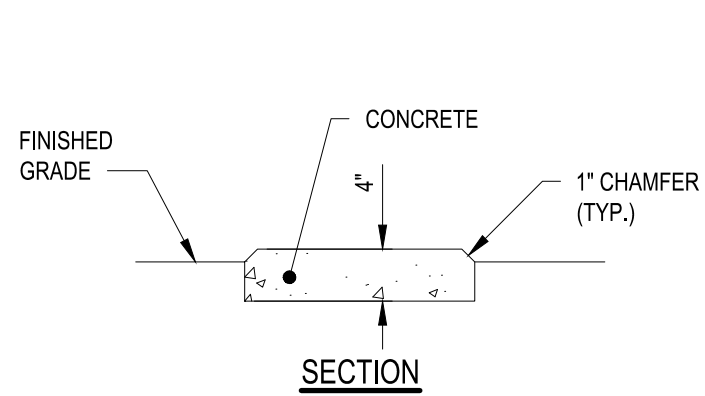


C1 DUCT BANK TO JUNCTION CAN PLAZA CONNECTION DETAIL
SCALE: NOT TO SCALE

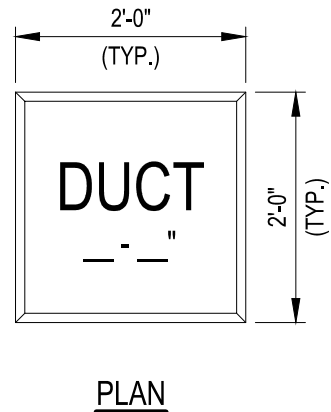
- DUCT BANK EXTENSION NOTES:
- EXISTING DUCT BANKS TO BE EXTENDED SHALL BE THOROUGHLY CLEANED, DRILLED AND DOWELED. CONNECTION OF PROPOSED CONDUIT TO EXISTING SHALL BE MADE WATERTIGHT WITH A UNION OR SOLVENT WELDED CONNECTION. THE CONTRACTOR SHALL PROVIDE A CLEAN VERTICAL FACE. BOND PROPOSED CONCRETE TO EXISTING CONCRETE WITH SIKADOR HM-600 OR EQUAL.
 - THE CONTRACTOR SHALL CLEAN AND MANDREL EACH DUCT PRIOR TO PULLING NEW CABLES AND REPLACING EXISTING CABLES. NO DIRECT PAYMENT SHALL BE MADE FOR THIS. THE CONTRACTOR SHALL INCLUDE THE COST OF THIS WORK IN THE VARIOUS PAYMENT ITEMS INVOLVED.



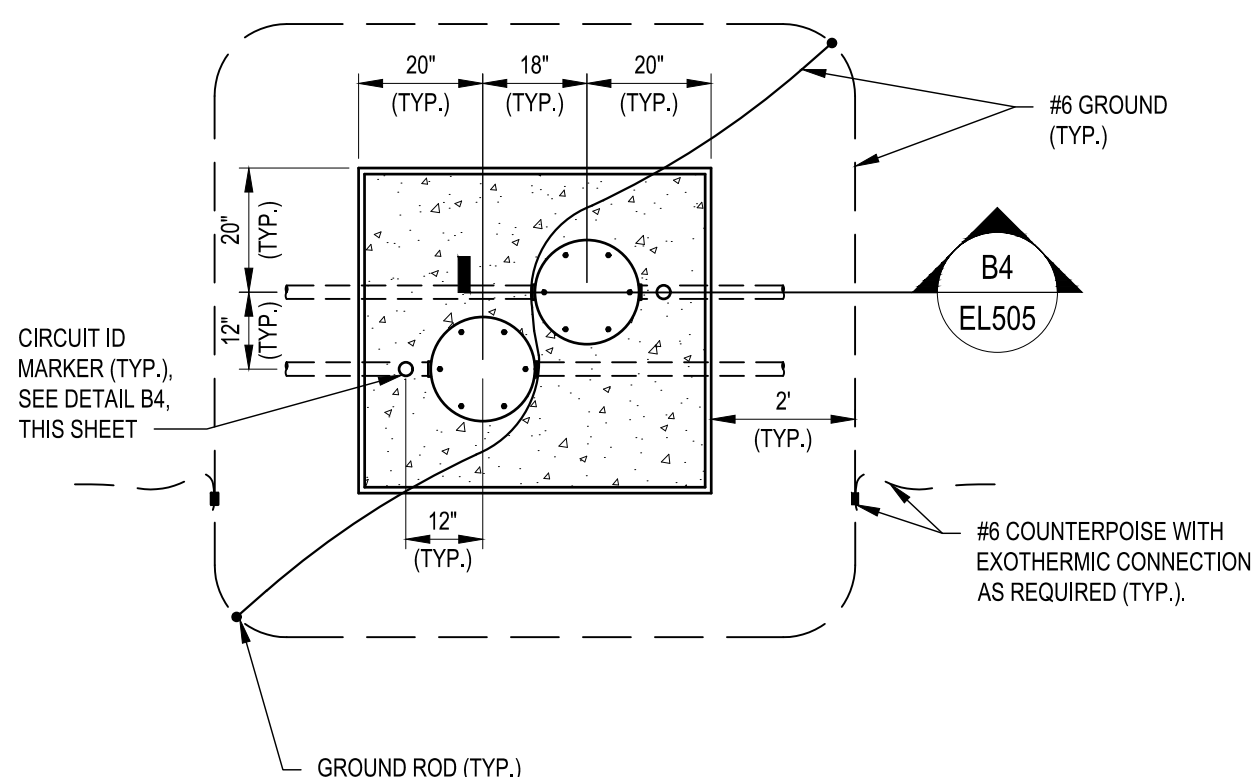
C4 DUCT BANK EXTENSION DETAIL
SCALE: NOT TO SCALE



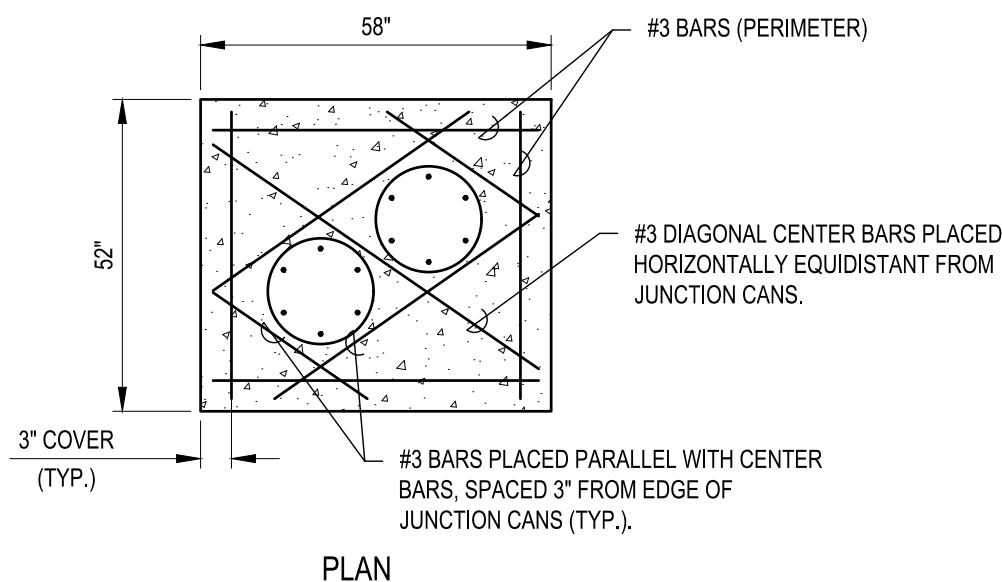
- CONCRETE MARKER NOTES:
- LETTERS SHALL BE APPROXIMATELY 4" HIGH x 3" WIDE x 1/4" DEEP WITH 1/2" STROKE WIDTH.
 - CONTRACTOR SHALL INDICATE THE DIRECTION OF CABLES AT ANGLE POINTS ON THE CABLE MARKERS.
 - CONTRACTOR SHALL INDICATE NUMBER AND SIZE OF DUCTS ON DUCT MARKERS.
 - PAINT ALL MARKERS WITH INTERNATIONAL ORANGE PAINT MANUFACTURED FOR UNCURED CONCRETE.
 - DUCT MARKERS ARE INCIDENTAL TO ITEM L-110.



B1 CONCRETE MARKER DETAIL
SCALE: NOT TO SCALE

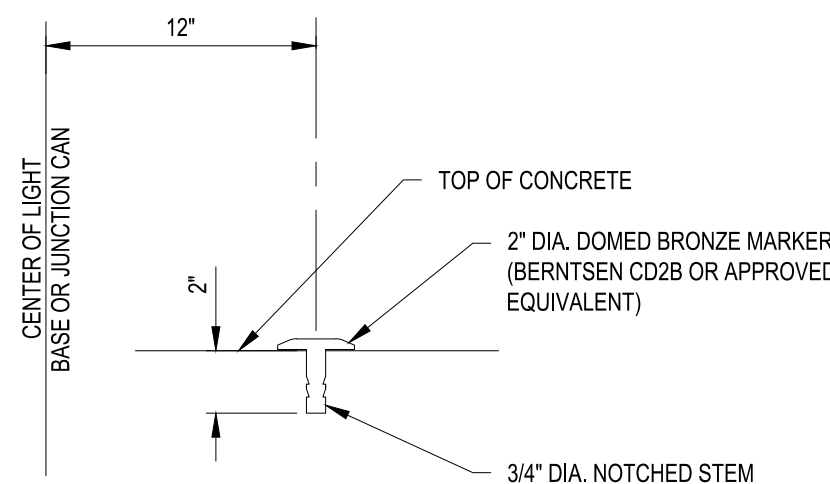


B2 JUNCTION CAN PLAZA PLAN
SCALE: NOT TO SCALE



NOTE:
ALL BARS SHALL HAVE 3" MINIMUM COVER FROM ALL SURFACES OF CONCRETE.

B3 JUNCTION CAN REINFORCEMENT DETAIL
SCALE: NOT TO SCALE

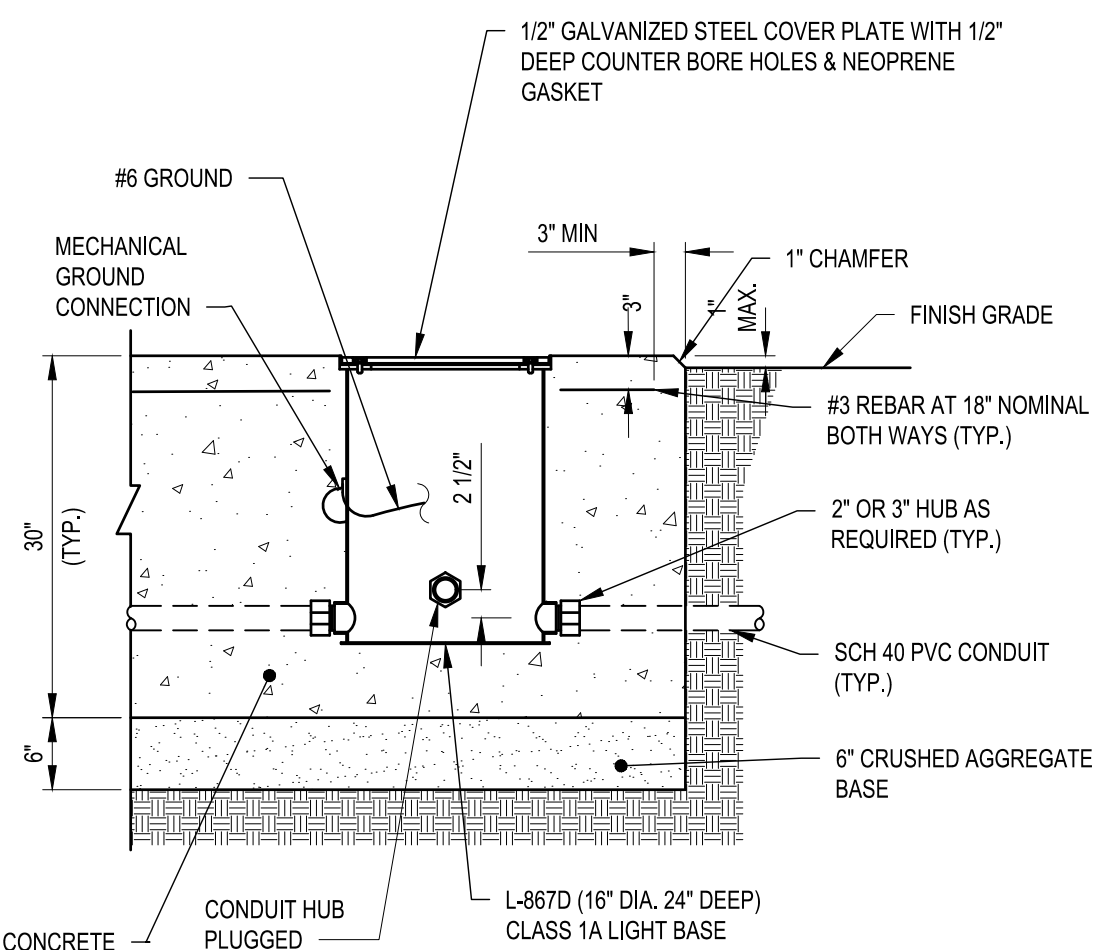


- NOTES:
- CIRCUIT IDENTIFICATION SHALL BE STAMPED USING 1/4" FIGURES AND LETTERS UNIFORMLY SPACED ON THE BRONZE MARKER.
 - COORDINATE CIRCUIT ID'S WITH PLANS.
 - ALTERNATIVELY, THE CONTRACTOR MAY ELECT TO STAMP CIRCUIT ID'S INTO COVER PLATES (PRIOR TO GALVANIZATION)

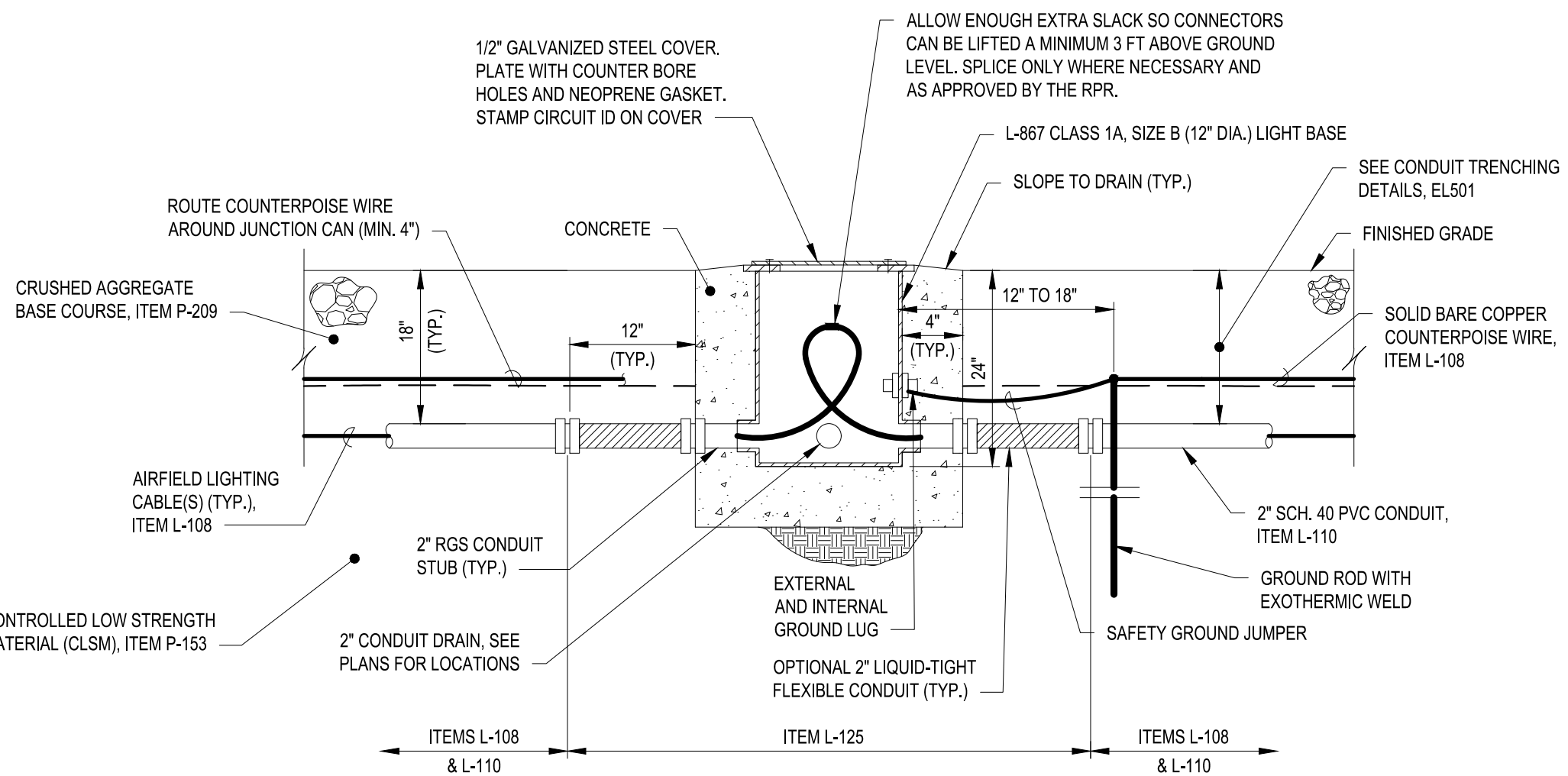
B4 CIRCUIT IDENTIFICATION MARKER DETAIL
SCALE: NOT TO SCALE

- NUMBER OF JUNCTION CANS AND CONDUIT CONFIGURATIONS VARY. SEE LAYOUT PLAN SHEETS FOR ORIENTATION.
- CONDUITS WHICH ARE NOT USED IN THE PROJECT SHALL BE CAPPED 36" OUTSIDE OF PLAZA CONCRETE FOR FUTURE USE.
- ORIENT PLAZA AS SHOWN ON LAYOUT PLAN SHEETS.
- CONTRACTOR SHALL PROVIDE A 2" DIAMETER DOMED BRONZE MARKER AT EACH JUNCTION CAN AS SHOWN. MARKER SHALL BE STAMPED IF JUNCTION CAN UTILIZED WITH CIRCUIT IDENTIFICATION(S) AS SHOWN ON LAYOUT PLAN SHEETS. OTHERWISE LEAVE MARKER BLANK.
- INSTALL GROUND RODS AND GROUND LOOP AT ALL JUNCTION CAN PLAZAS AS SHOWN. TWO GROUND RODS PER PLAZA LOCATED AT OPPOSITE CORNERS SHALL BE PROVIDED. GROUND CONDUCTOR SHALL BE LOCATED NOMINALLY 12" BELOW EXISTING GRADE.
- CONTRACTOR SHALL GRADE AROUND JUNCTION CAN PLAZAS AS NECESSARY TO PREVENT SILT/DIRT INFILTRATION ONTO JUNCTION CAN PLAZAS. NO SEPARATE PAYMENT SHALL BE MADE.
- LEAVE APPROXIMATELY 6" OF EACH CABLE COILED IN JUNCTION CAN (JC) SO THAT EACH CABLE MAY BE RAISED A MINIMUM OF 3" ABOVE TOP OF CAN.
- CONTRACTOR SHALL PROVIDE CABLE CIRCUIT IDENTIFICATION (ID) MARKERS ATTACHED TO EACH CABLE ENTERING AND LEAVING JUNCTION CANS, HAND HOLES, PULL BOXES, OR MANHOLES. IF NO L-823 CONNECTOR IS PRESENT, ONE ID MARKER IS ACCEPTABLE.
- TRANSITION FROM MULTI-WAY CONDUIT TRENCH TO JUNCTION CAN PLAZAS REQUIRES DISTRIBUTION OF CONDUITS TO EACH JUNCTION CAN. CONTRACTOR SHALL LIMIT CONDUIT BENDS TO 15" MAXIMUM.
- THE TOP OF ALL JUNCTION CANS SHALL SIT FLUSH WITH THE CONCRETE SURFACE. NO PORTION OF THE LIGHT BASE SHALL EXTEND ABOVE THE TOP OF CONCRETE.
- COVER BOLTS SHALL BE STAINLESS STEEL AND EXTEND A MINIMUM 1/2" BEYOND THE BOTTOM OF THE L-867 BASE TOP FLANGE.

A1 JUNCTION CAN PLAZA INSTALLATION NOTES
SCALE: NOT TO SCALE



A2 JUNCTION CAN PLAZA SECTION
SCALE: NOT TO SCALE



A3 ELECTRICAL JUNCTION CAN DETAIL (IN CRUSHED AGGREGATE)
SCALE: NOT TO SCALE

- JUNCTION CAN NOTES:
- ALL JUNCTION CANS SHALL HAVE A MINIMUM OF TWO CONDUIT STUBS SPACED 180 APART. CAP CONDUIT IF STUB IS NOT OCCUPIED. ADDITIONAL CONDUIT STUBS MAY BE REQUIRED. SEE PLANS FOR NUMBER AND LOCATION OF STUBS.
 - CONNECT A SAFETY GROUND JUMPER TO THE EXTERNAL GROUND LUG AND ATTACH IT TO A 5/8" DIA. x 8 FT LONG (MIN.) GROUND ROD.
 - AT INTERVALS NOT EXCEEDING 500 FT. CONNECT THE COUNTERPOISE WIRE TO A 5/8" DIA. x 8 FT LONG (MIN.) GROUND ROD.
 - THE DESIGN INTENT IS TO MINIMIZE THE NUMBER OF SPLICES. SPLICE CABLES ONLY WHERE REQUIRED AND AS APPROVED BY THE RPR.
 - FLEXIBLE CONDUIT MAY BE USED WHERE NECESSARY. OTHERWISE USE STANDARD PVC TO RGS CONNECTORS.



APPROVED:
DATE: 1/27/2023

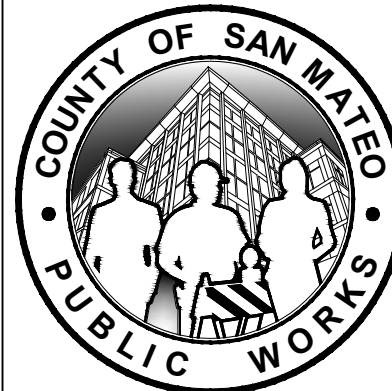
ANN MADER STILLMAN,
DIRECTOR OF PUBLIC WORKS
R. C. E. # 47882 / EXPIRES 12-31-2023

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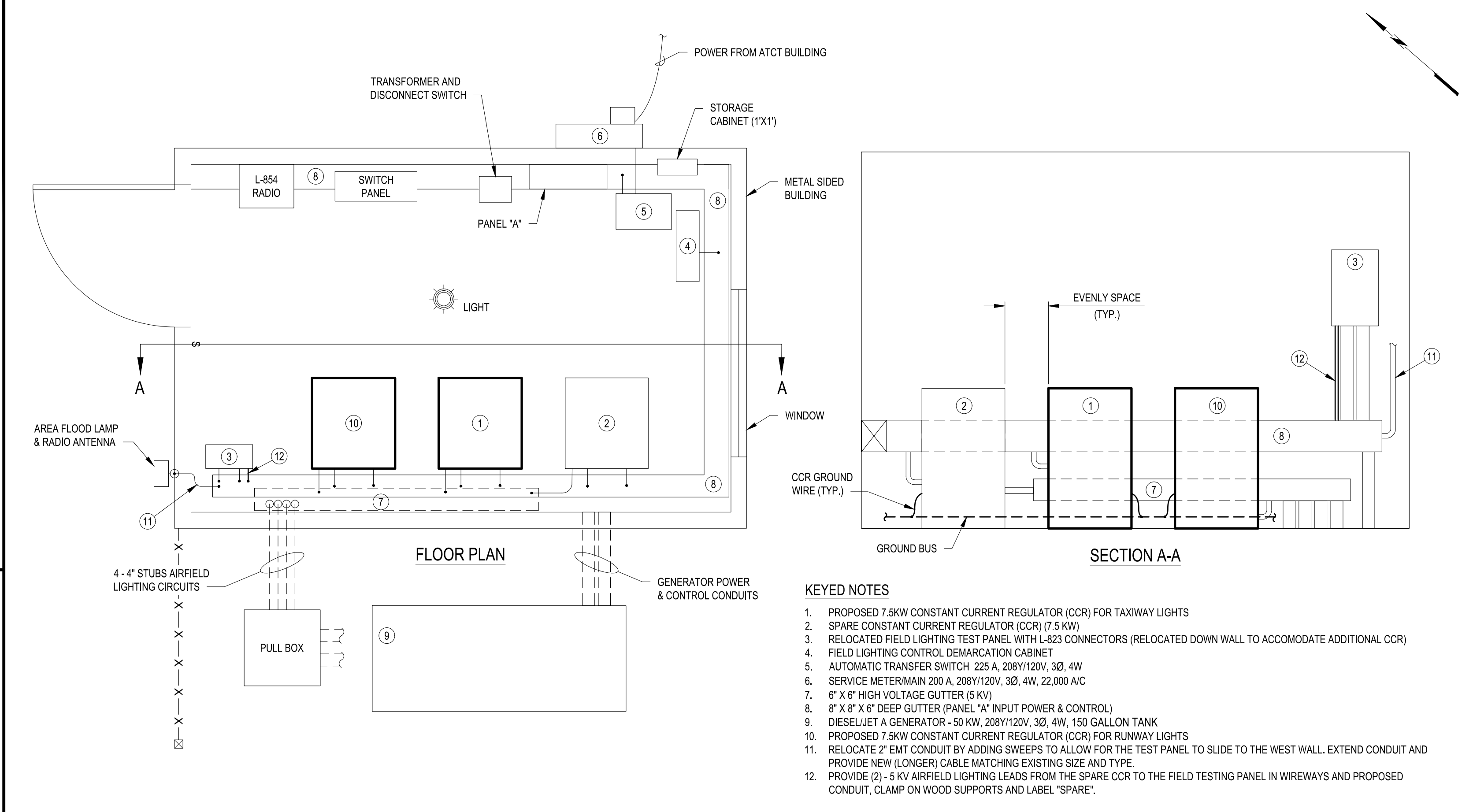
APPROVED DATE: 01-27-2023

BARTON T. PETERS
C&S ENGINEERS, INC.
R.C.E. # E 18924 EXPIRES 12-31-2023

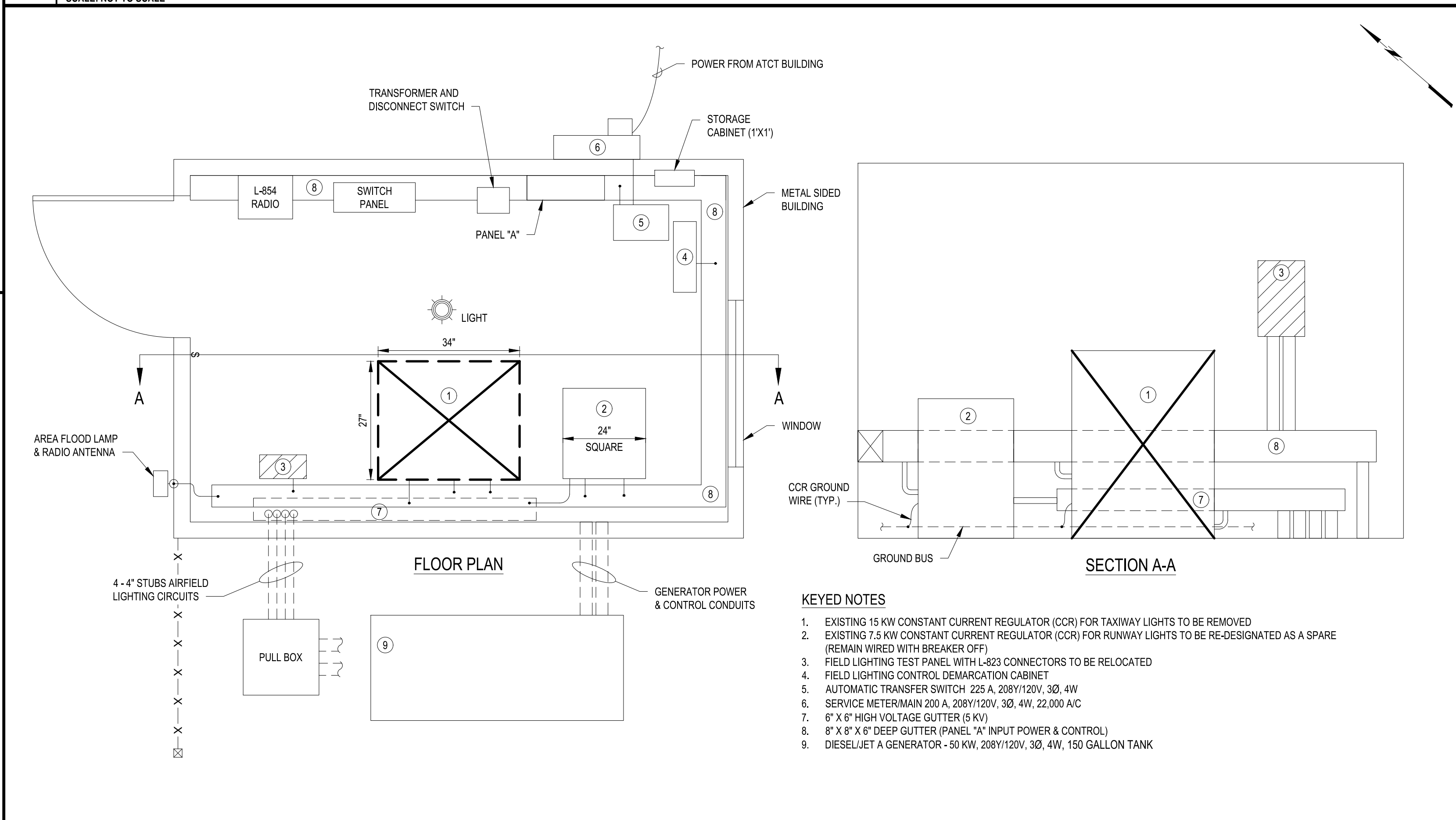


DESIGNED BY: C.B.		CHECKED BY: D.M.		DRAWN BY: S.D.		ANN MADER STILLMAN, DIRECTOR OF PUBLIC WORKS		555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063		SCALE: NOT TO SCALE
REVISION		DATE		SAN MATEO COUNTY		EL506		SHEET 520F		53
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES		0 1 2 3 4								

FILENAME: F:\PROJECT\16 - SAN MATEO COUNTY\16.003.009 - SOL RWY - TRY CONNECTOR REHAB DESIGN (CADD) SHEET FILES\16003009_EL-DDETAILS.DWG (EL506)



B1 PROPOSED AIRFIELD ELECTRICAL VAULT PLAN
SCALE: NOT TO SCALE



A1 AIRFIELD ELECTRICAL VAULT DEMOLITION PLAN
SCALE: NOT TO SCALE

VOLTAGE: 208/120V 3 PHASE, 4 WIRE, 10,000 AIC

MOUNTING: SURFACE

MAIN: 200 AMP MCB

PANEL "A"					
LOAD	CIR			CIR	LOAD
GENERATOR HEATER	1	20/1	50/2	2	RUNWAY CCR
RECEPTACLES	3	20/1	*	4	RUNWAY CCR
AIRPORT LIGHTS	5	20/1	50/2	6	TAXIWAY CCR
INTERIOR LIGHTS	7	20/1	*	8	TAXIWAY CCR
EXTERIOR LIGHTS	9	20/1	50/2	10	SPARE CCR (NORMALLY OFF)
CONTROL TOWER	11	20/1	*	12	SPARE CCR (NORMALLY OFF)
GFI PLUGS ON LIGHT POLE	13	20/1	40/2	14	FLIGHT SIM. LIGHT STAND
RECEPTACLE ADJ. GENERATOR	15	20/1	*	16	FLIGHT SIM. LIGHT STAND
AUTO GATE 220 VOLTS	17	20/1	50/2	18	TRANS. BAY
AUTO GATE 220 VOLTS	19	20/1	*	20	TRANS. BAY
AWOS & MID FIELD WIND SOCK	21	30/2	60/3	22	CONTROL TOWER
AWOS & MID FIELD WIND SOCK	23	*	*	24	CONTROL TOWER
SPARE (ATCT EMERG. POWER)	25	100/3	*	26	CONTROL TOWER
SPARE (ATCT EMERG. POWER)	27	*	20/1	28	SPARE
SPARE (ATCT EMERG. POWER)	29	*	20/1	30	SPARE

REMOVE EXISTING 100A/2P BREAKER

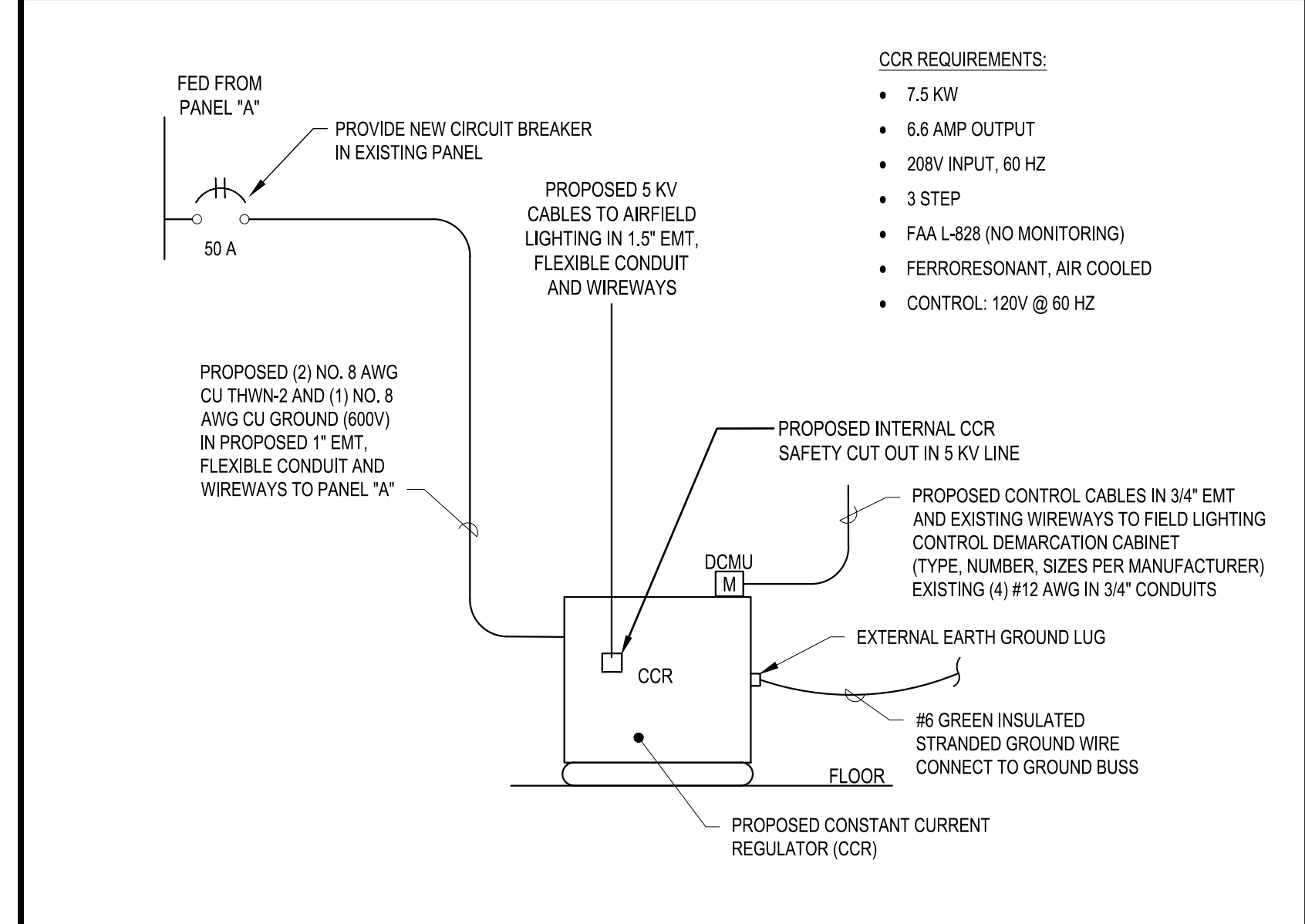
REMOVE EXISTING 100A/2P BREAKER

SQUARE D - NQOD NQOD430M225CU BREAKER PANEL

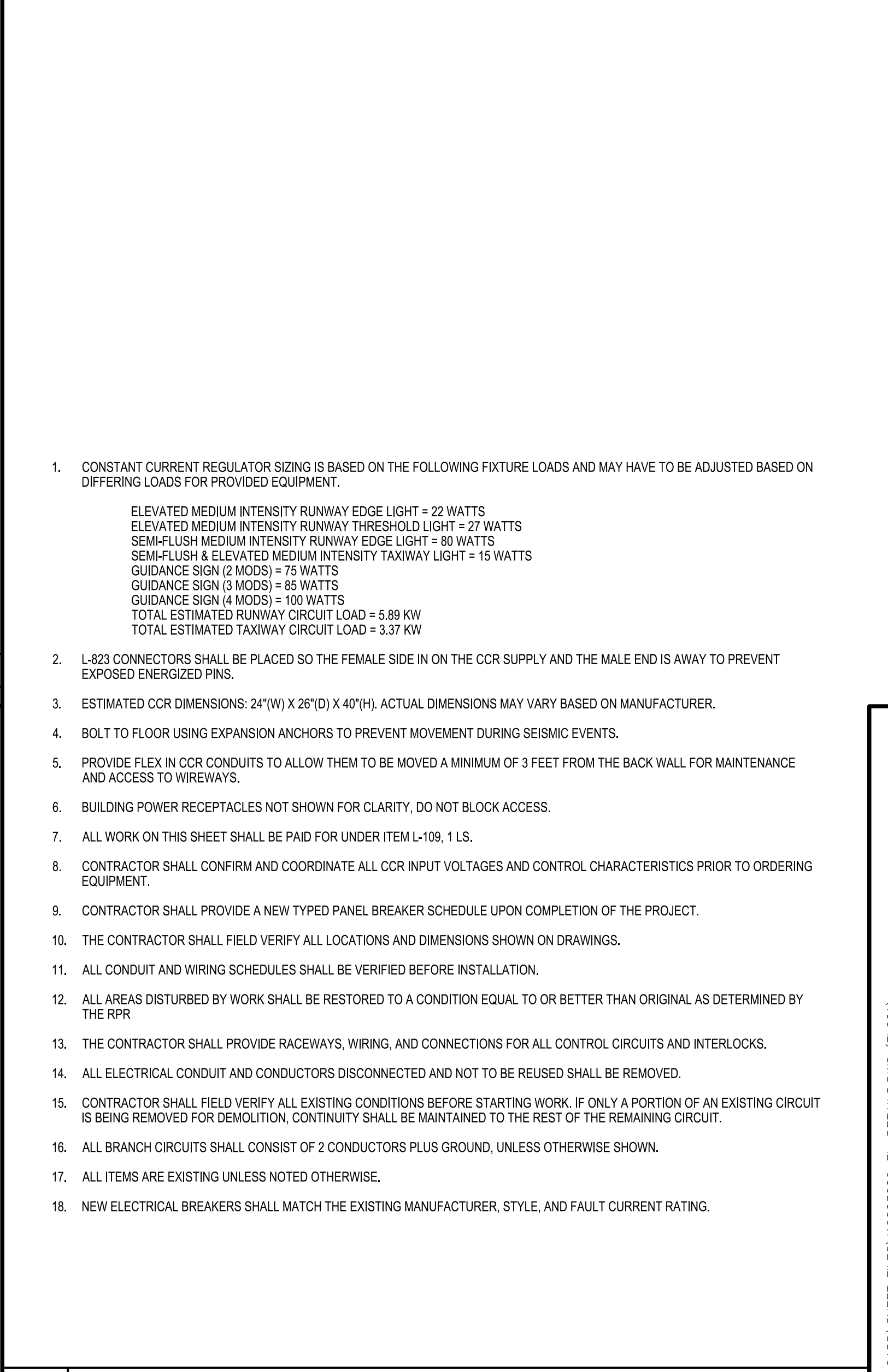
C3 ELECTRICAL PANEL "A" SCHEDULE
SCALE: NOT TO SCALE



B4 ELECTRICAL VAULT NOTES
SCALE: NOT TO SCALE



A3 TAXIWAY REGULATOR DETAIL
SCALE: NOT TO SCALE



A4 RUNWAY REGULATOR DETAIL
SCALE: NOT TO SCALE