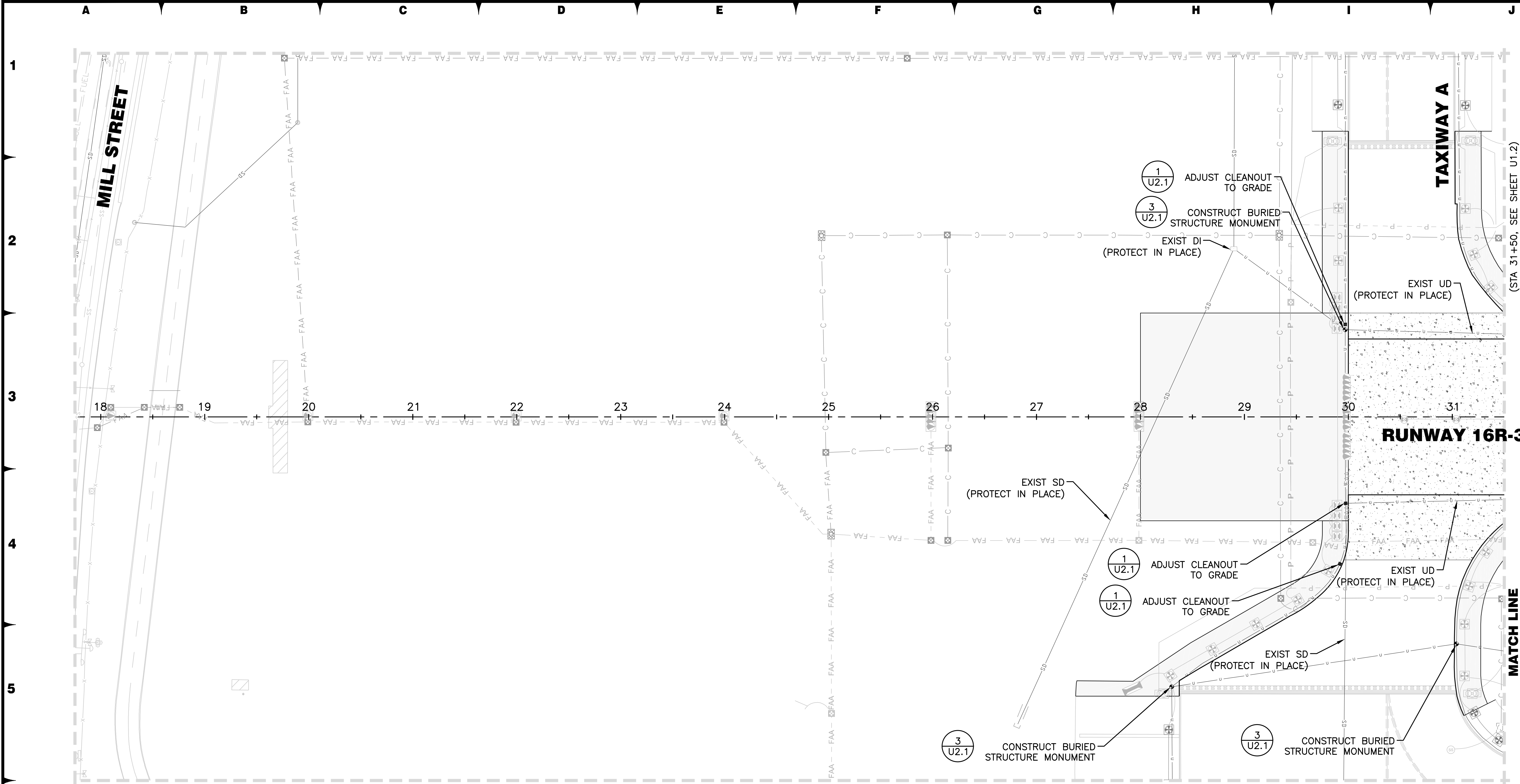


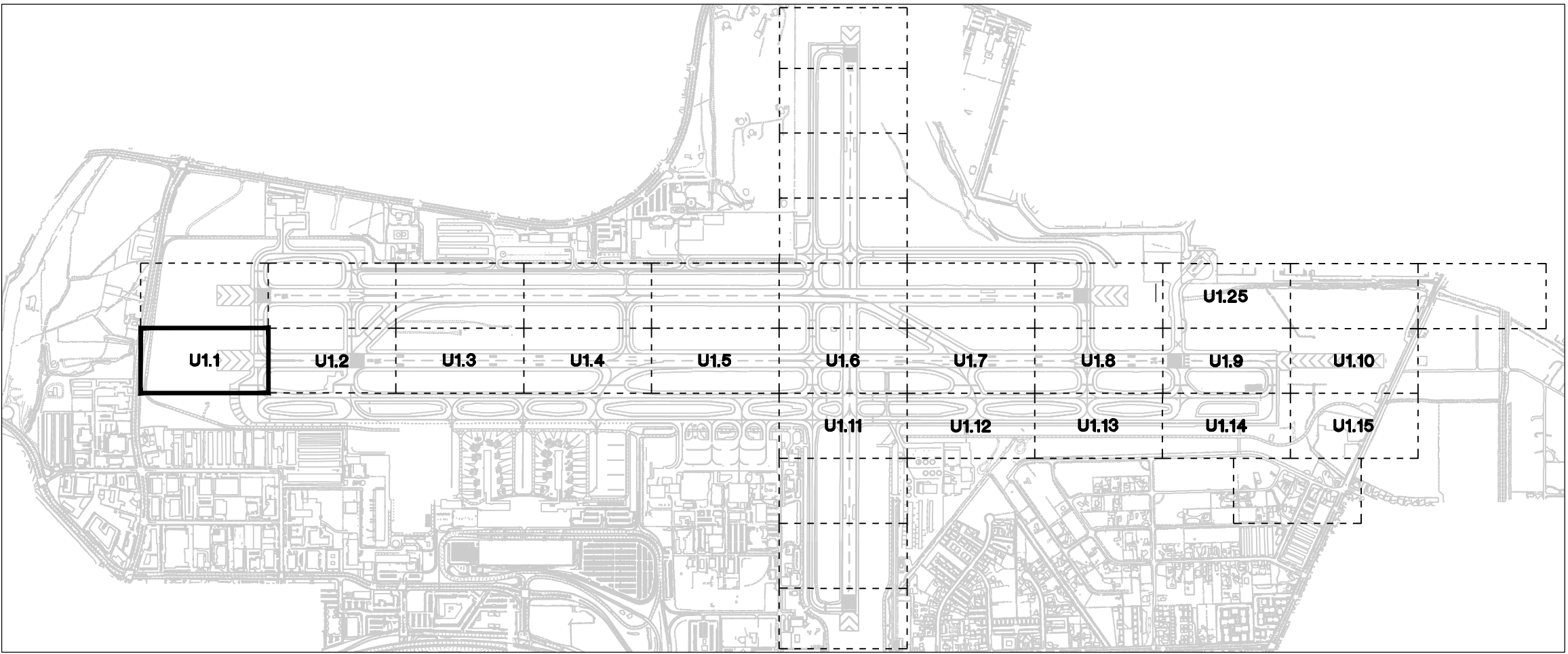


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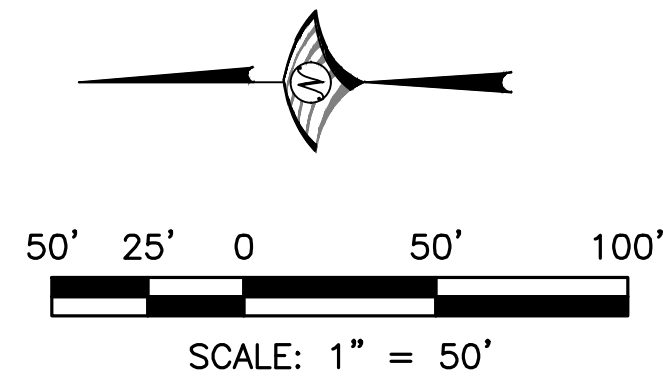
- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

NOTES

- REFERENCE DRAWING G4.1 FOR ALIGNMENT INFORMATION.
- REFERENCE DRAWINGS PH0.1-PH4.5 FOR PHASING LIMITATIONS.
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- REFER TO SHEETS P2.1-P2.26 FOR BID LAYOUT INFORMATION.



KEY MAP



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019
SCALE: N/A
DRAWN BY: DAB
DESIGNED BY: MAK, BAM
CHECKED BY: MAC

WOOD ROGERS
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1801 Corporate Blvd
Reno, NV 89502
Tel 775.823.4068
Fax 775.823.4066

Reno-Tahoe International Airport

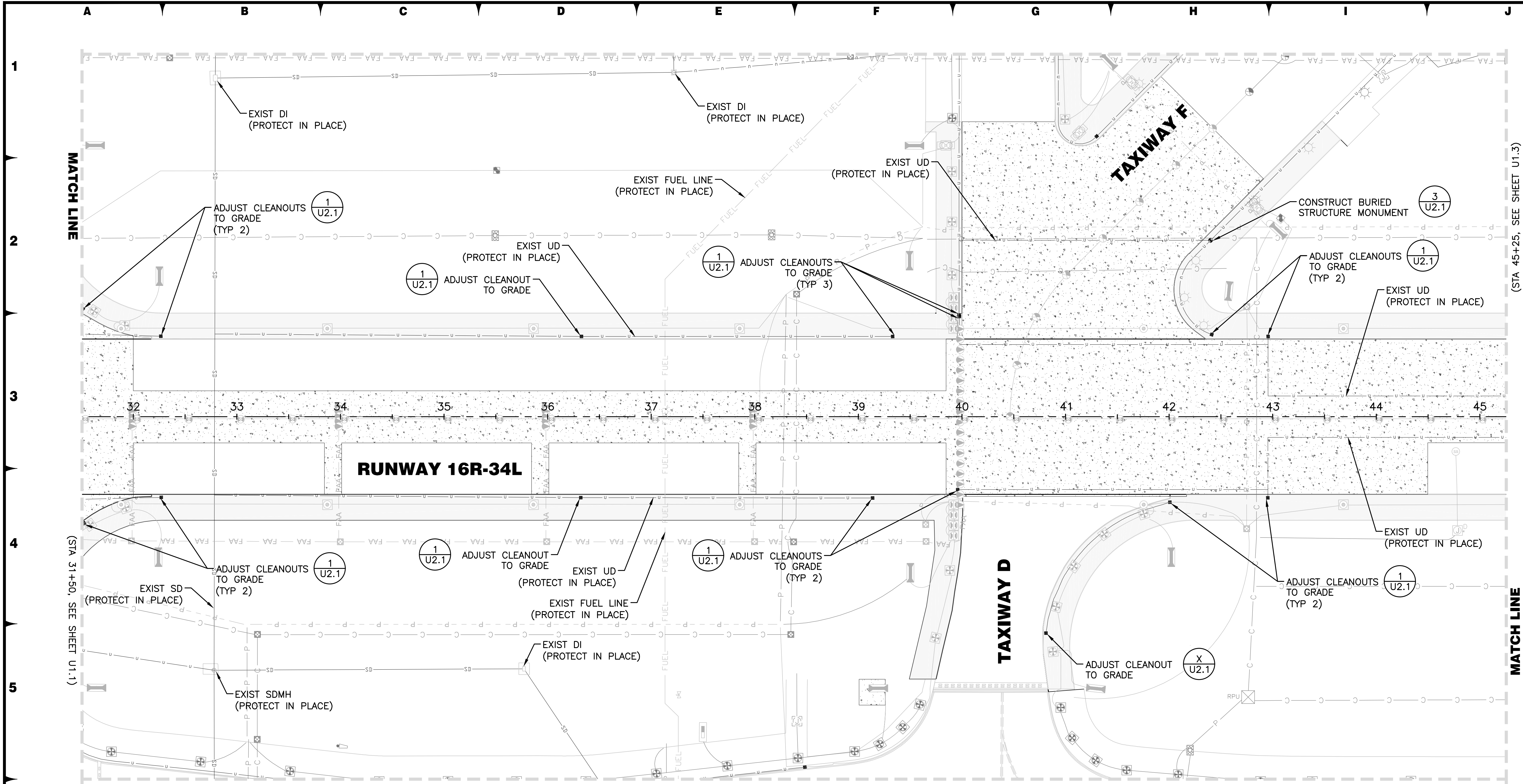
UTILITY LAYOUT PLAN

PROJECT NO. 8494.002
DRAWING U1.1

Runway 16R-34L Reconstruction

UTILITY LAYOUT PLAN

PROJECT NO. 8494.002
DRAWING U1.1

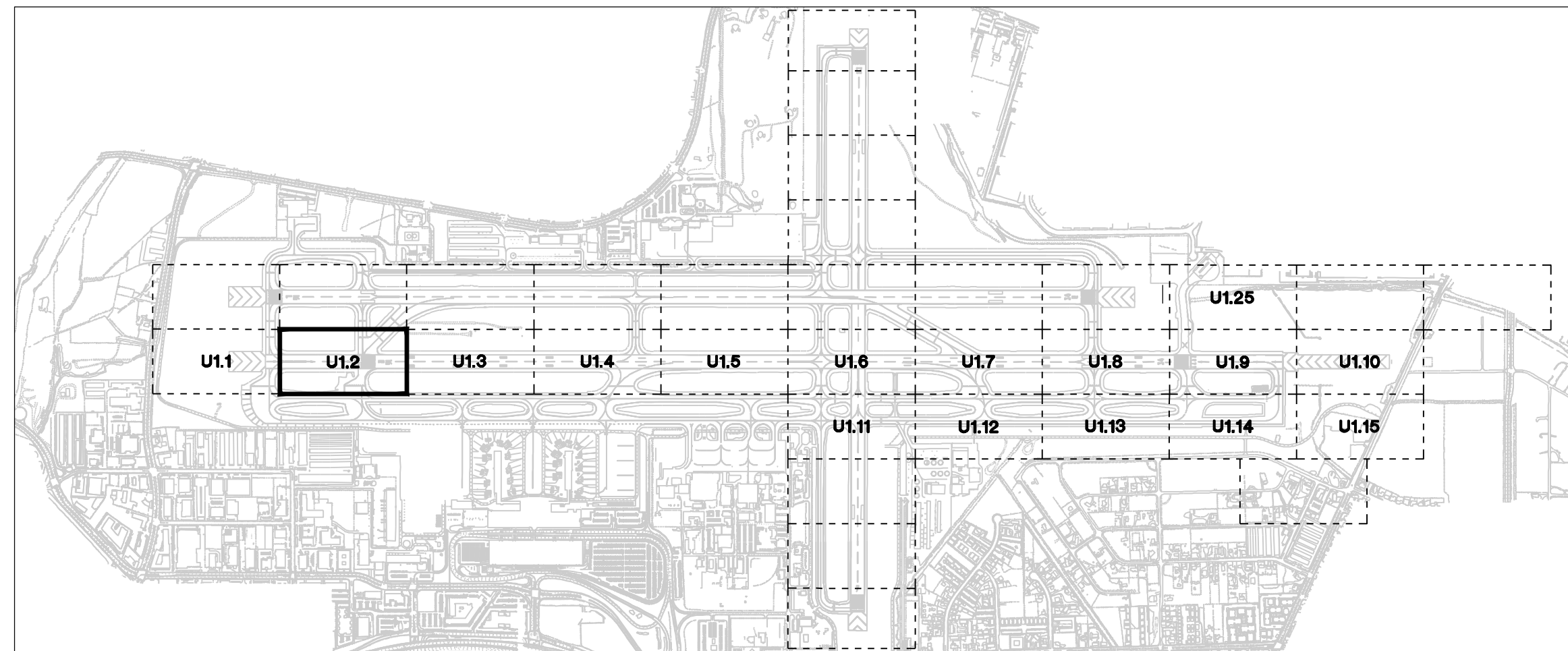


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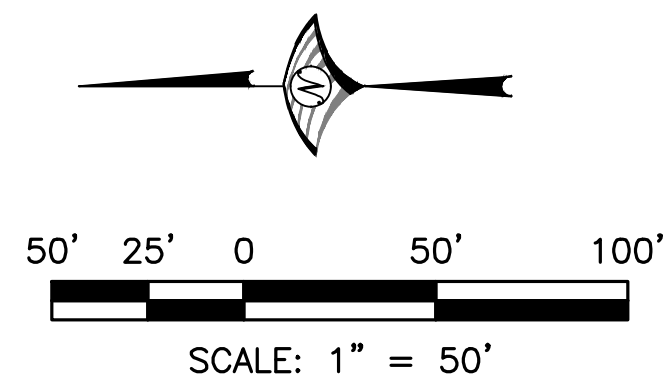
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- CONCRETE PCC PAVEMENT
- PROJECT CONTROL STATION

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KEY MAP



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019
SCALE: N/A
DRAWN BY: DAB
DESIGNED BY: MAK, BAM
CHECKED BY: MAC

BRIAN A. MARTINEZ-MOLES
Exp. 12-31-21
CIVIL
No. 21202

WOOD ROGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
1881 Corporate Blvd
Reno, NV 89502
Tel 775.823.4068
Fax 775.823.4066

Reno-Tahoe
International
Airport

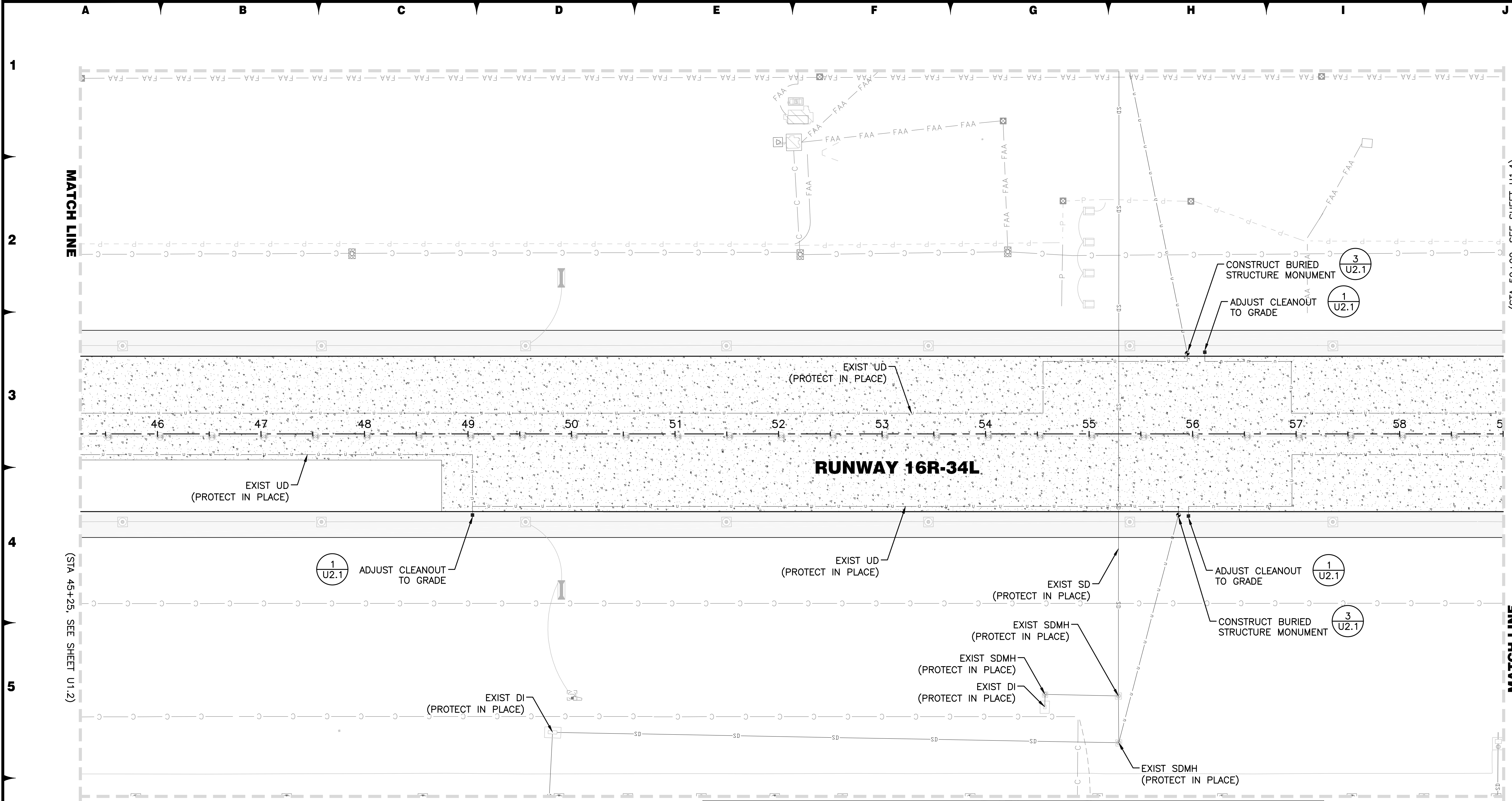
RUNWAY 16R-34L RECONSTRUCTION

UTILITY LAYOUT PLAN

PROJECT NO.
8494.002

DRAWING
U1.2

NO.
DESCRIPTION
DATE

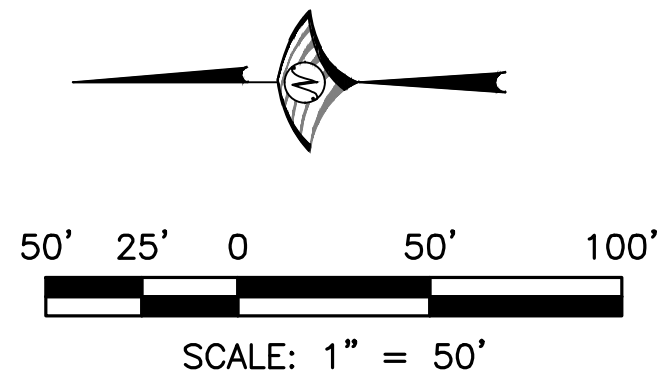
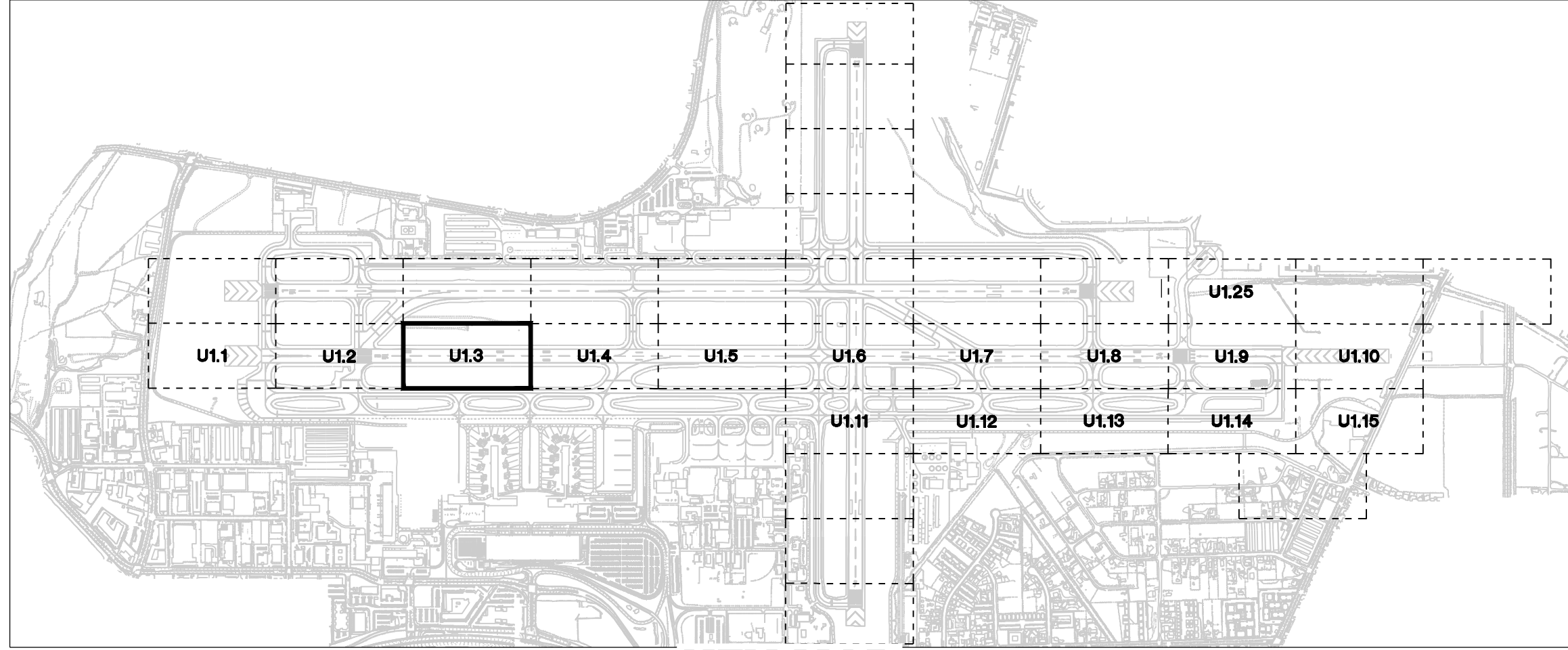


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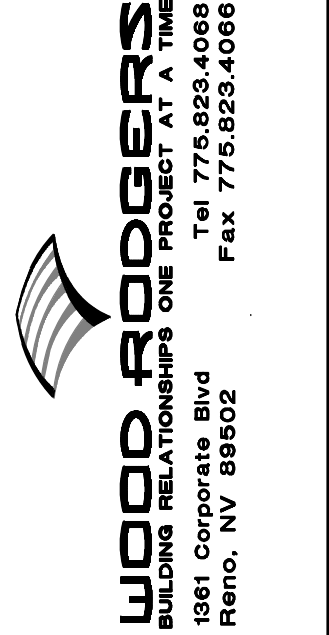
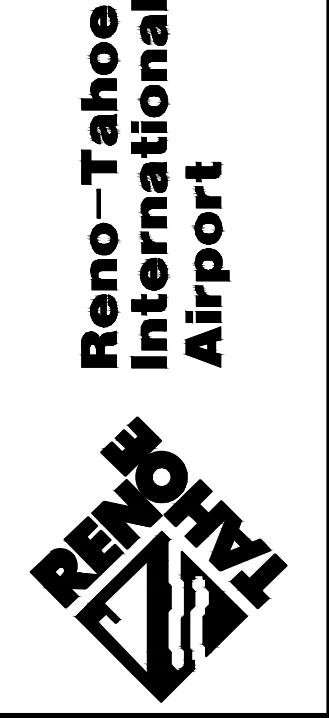
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- CONCRETE PCC PAVEMENT
- PROJECT CONTROL STATION

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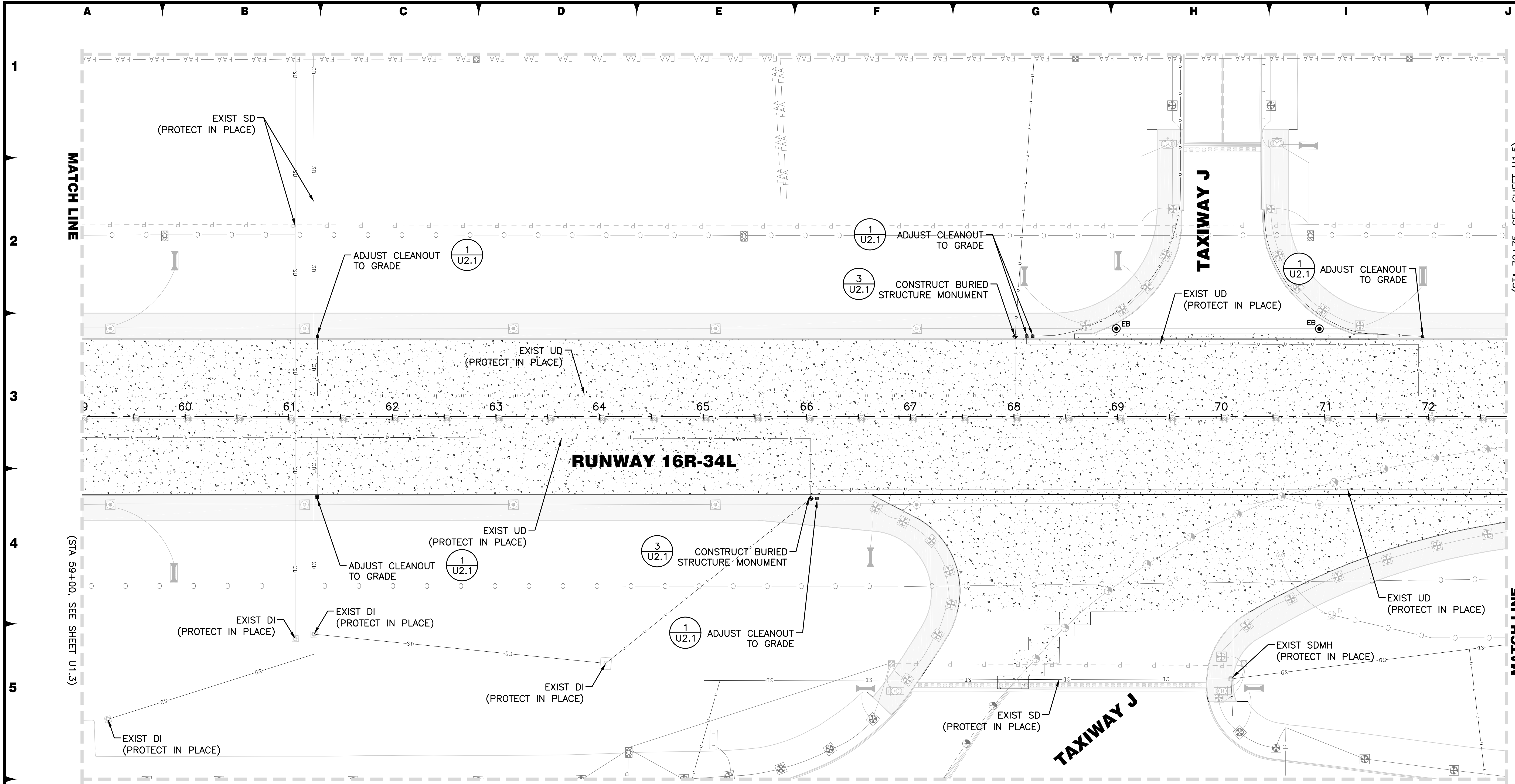
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DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK BAW	CHECKED BY: MAC
				
 WOOD RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME 1881 Corporate Blvd Reno, NV 89502 Tel 775.823.4068 Fax 775.823.4066				
 Reno-Tahoe International Airport				
RUNWAY 16R-34L RECONSTRUCTION				
UTILITY LAYOUT PLAN				
PROJECT NO. 8494.002				
DRAWING U1.3				

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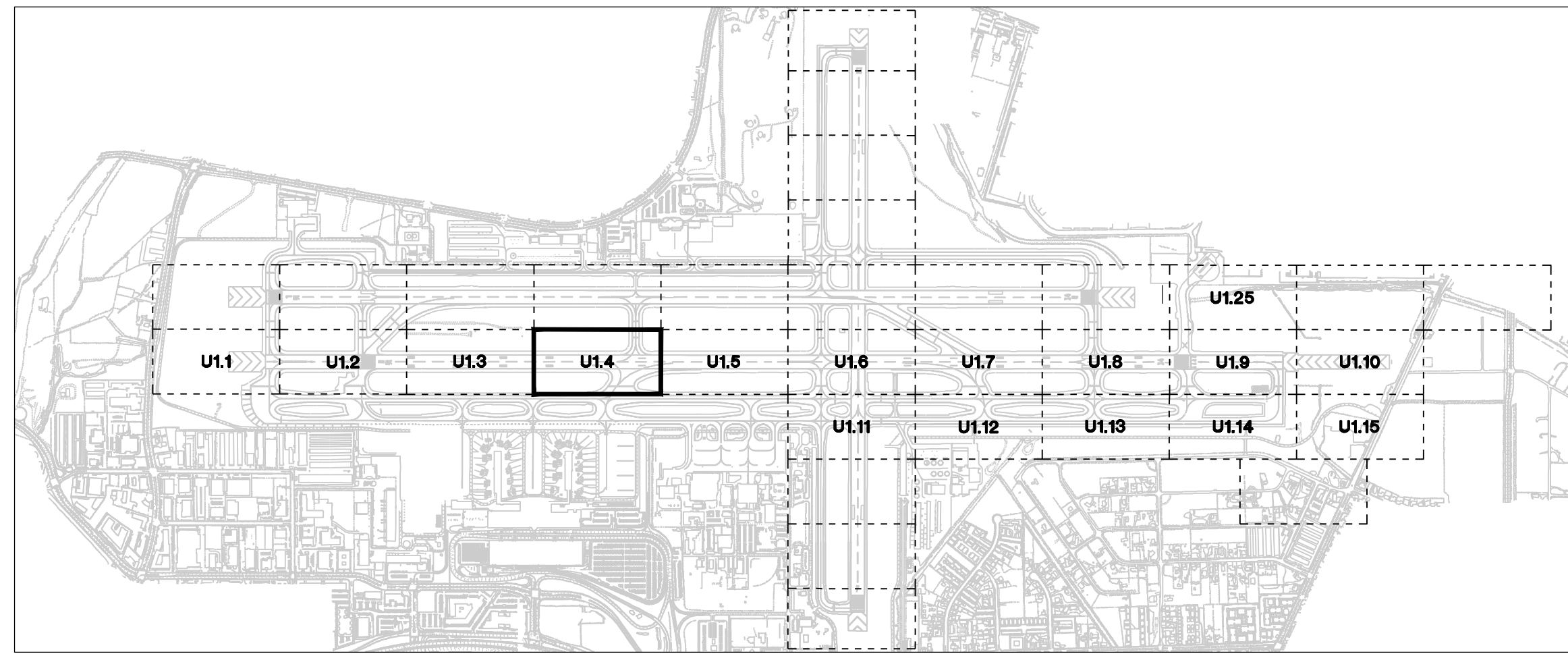


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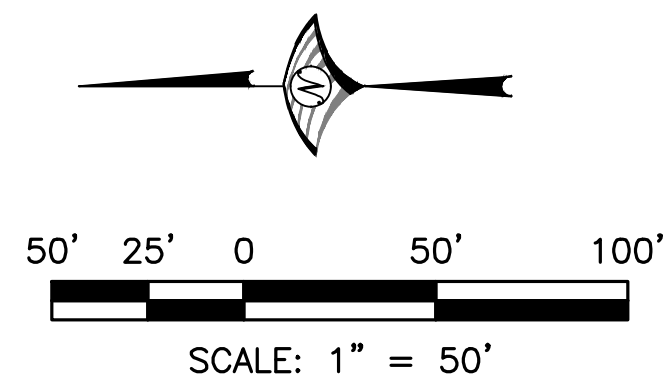
- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- PROJECT CONTROL STATION

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KEY MAP



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019

SCALE: N/A

DRAWN BY: DAB

DESIGNED BY: MAK BAW

CHECKED BY: MAC

NO.

DESCRIPTION

DATE

BRIAN A. MARTINEZ-MOLES

Exp. 12-31-21

CIVIL

No. 21202

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Fax 775.823.4066

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Reno, NV 89502

Reno-Tahoe International Airport

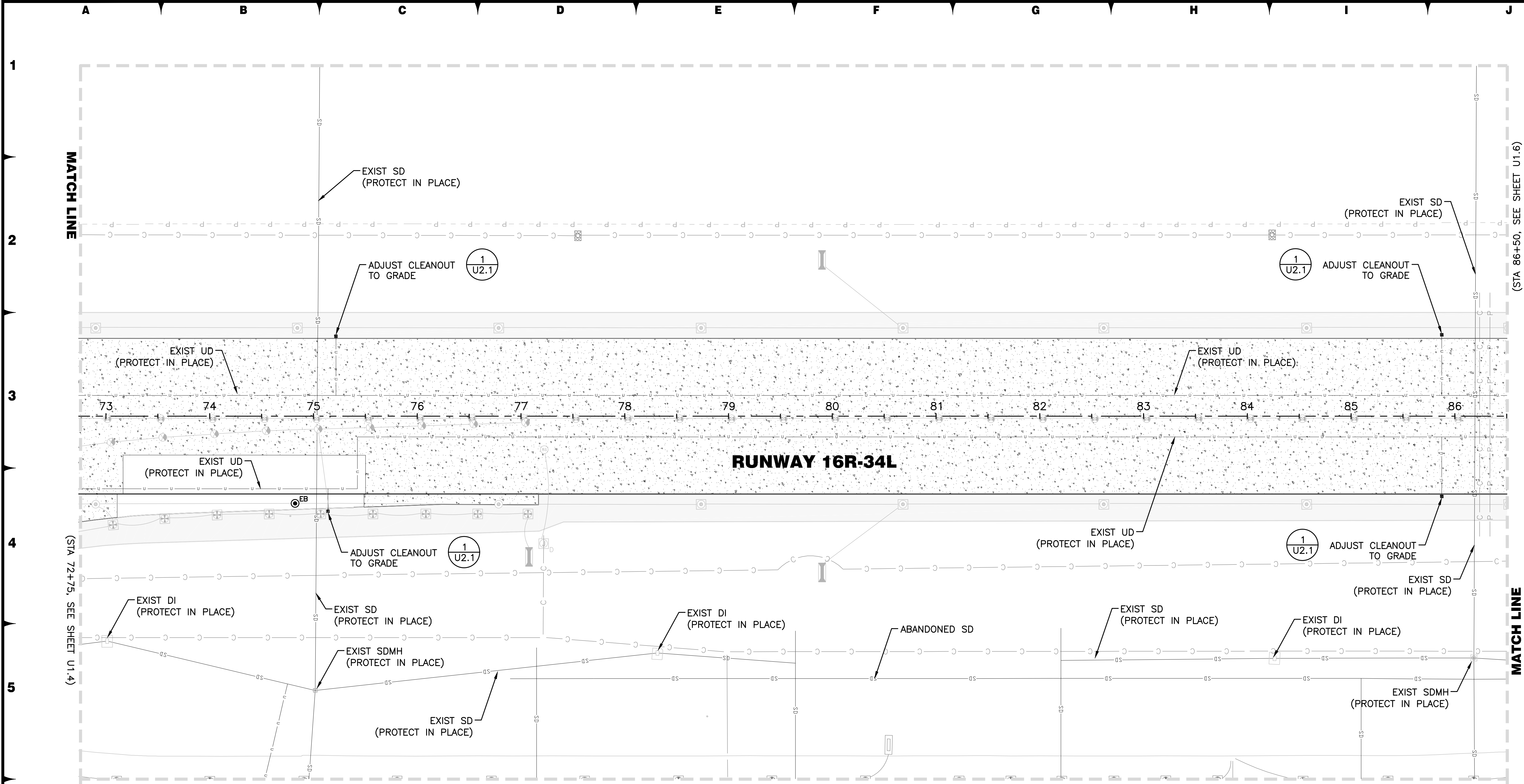
RENO-TAHOE INTERNATIONAL AIRPORT

RUNWAY 16R-34L RECONSTRUCTION

UTILITY LAYOUT PLAN

PROJECT NO. 8494.002

DRAWING U1.4

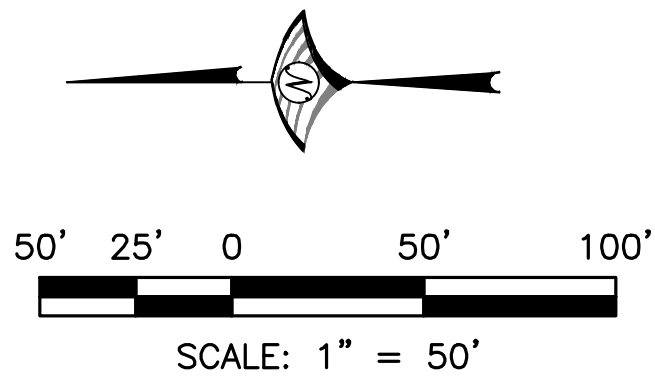
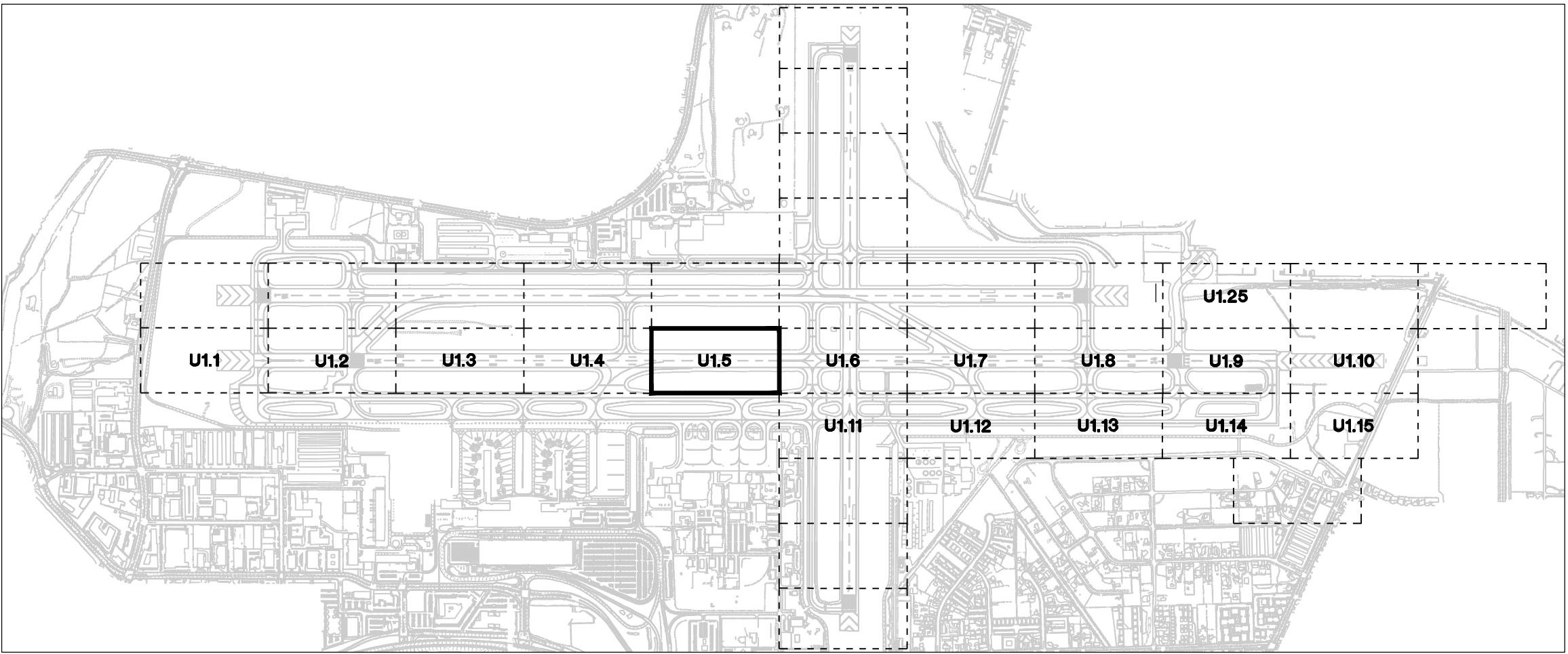


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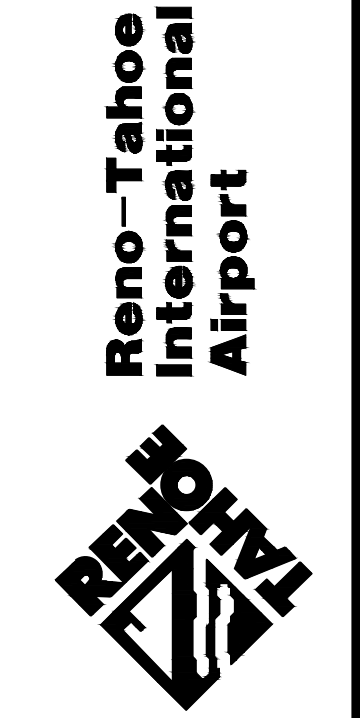
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- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

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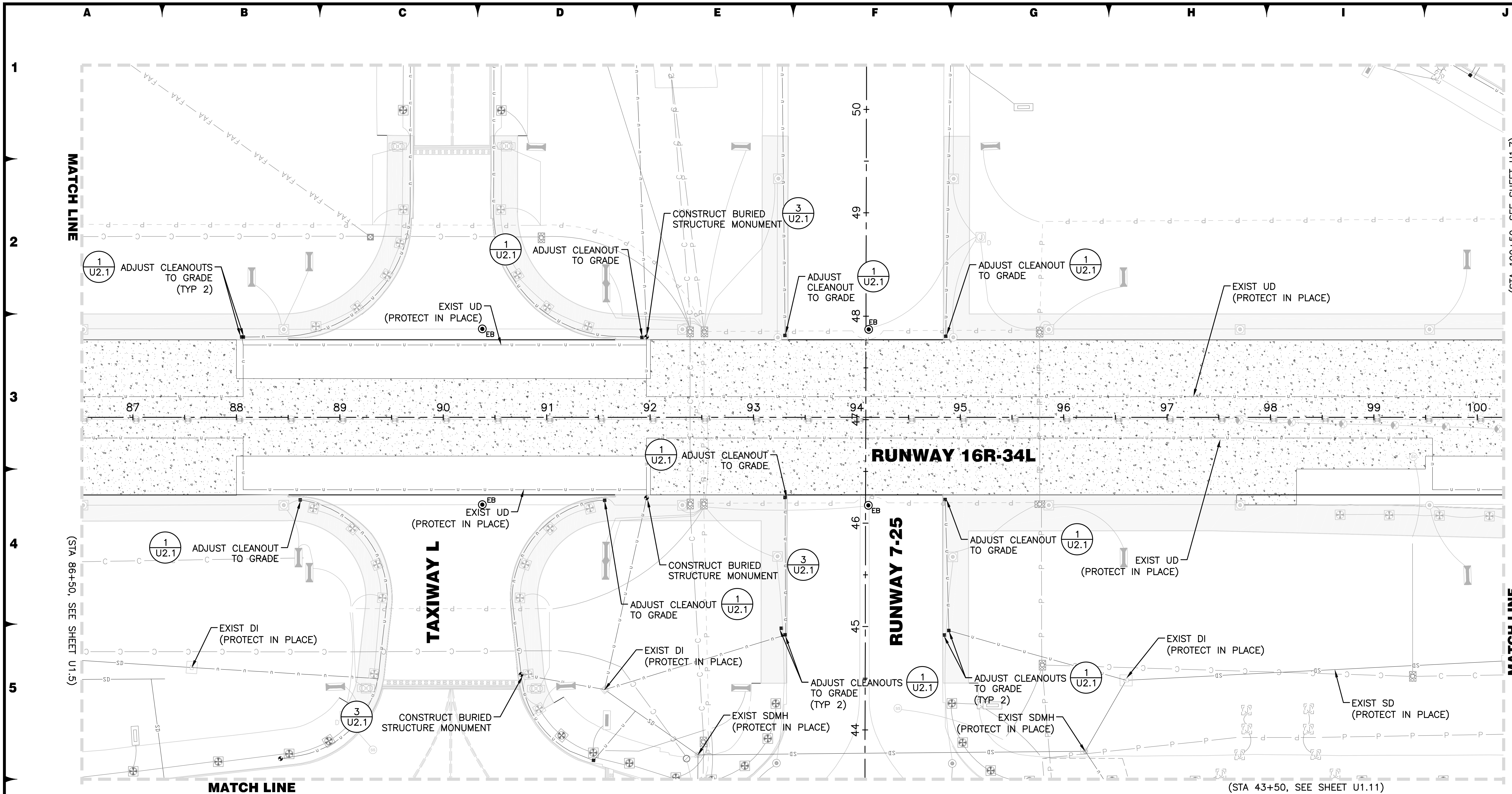
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7. REFER TO SHEETS P2.1-P2.26 FOR BID LAYOUT INFORMATION.



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC	NO.	DESCRIPTION	DATE
							
 WOOD RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME 1881 Corporate Blvd Reno, NV 89502 Tel 775.823.4068 Fax 775.823.4066							
 Reno-Tahoe International Airport							
RUNWAY 16R-34L RECONSTRUCTION							
UTILITY LAYOUT PLAN							
PROJECT NO. 8494.002							
DRAWING U1.5							

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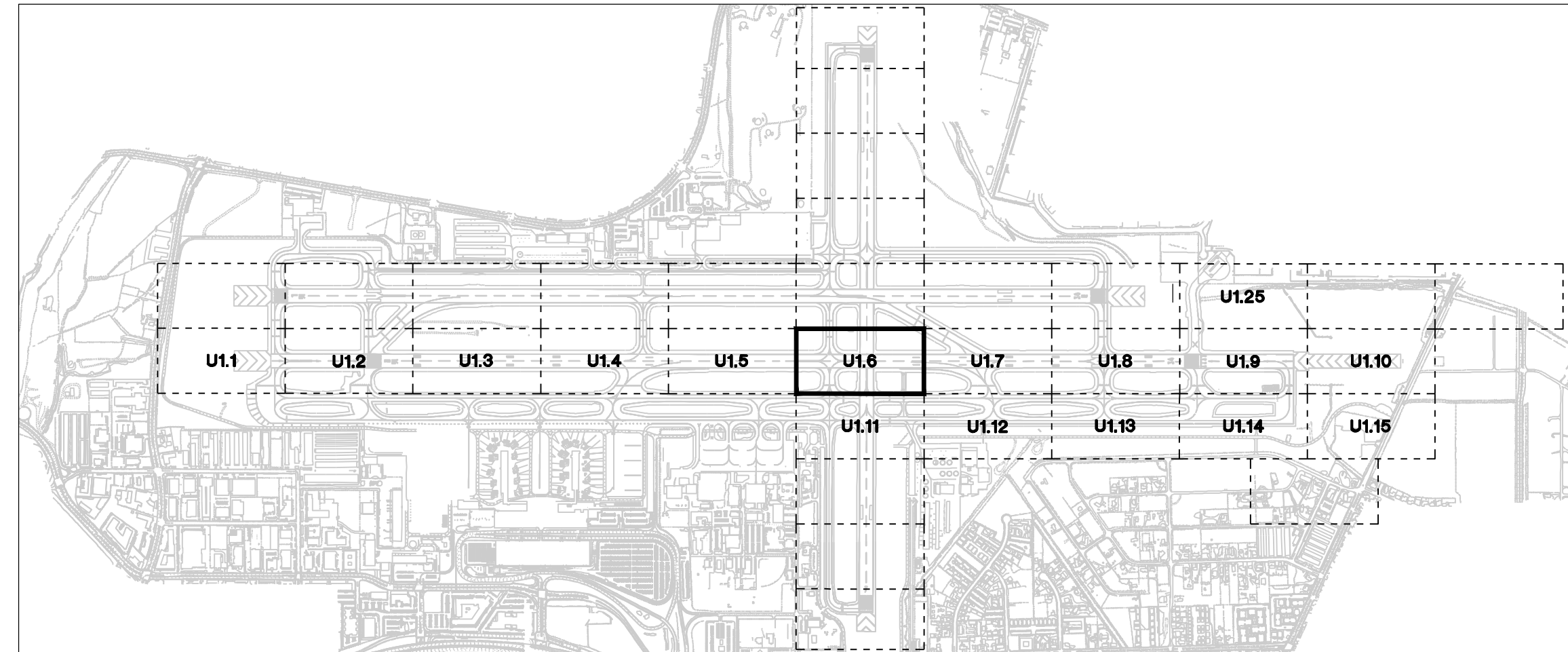


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- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

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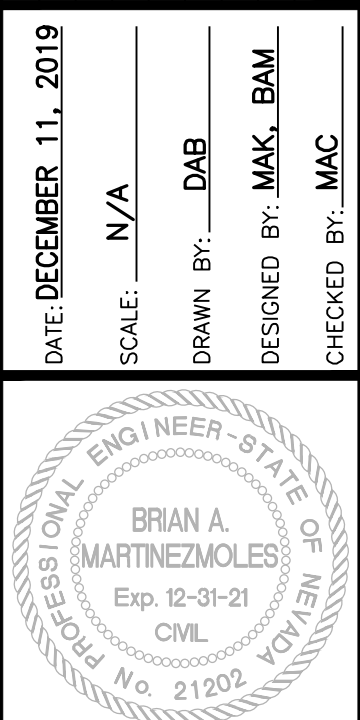
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KEY MAP

FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC
NO.	DESCRIPTION	DATE		

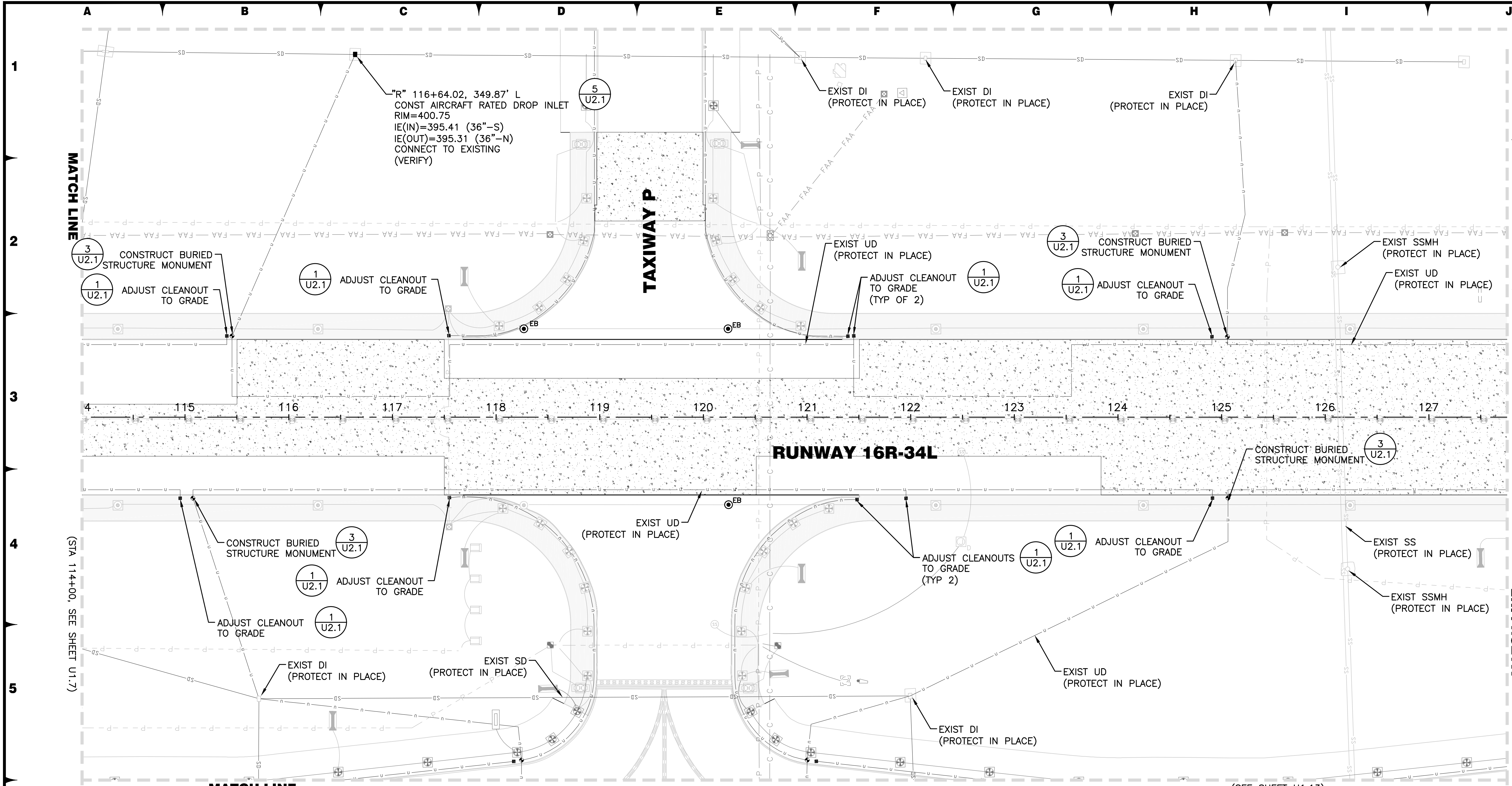


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Reno-Tahoe International Airport

RUNWAY 16R-34L RECONSTRUCTION
UTILITY LAYOUT PLAN

PROJECT NO. 8494.002
DRAWING **U1.6**

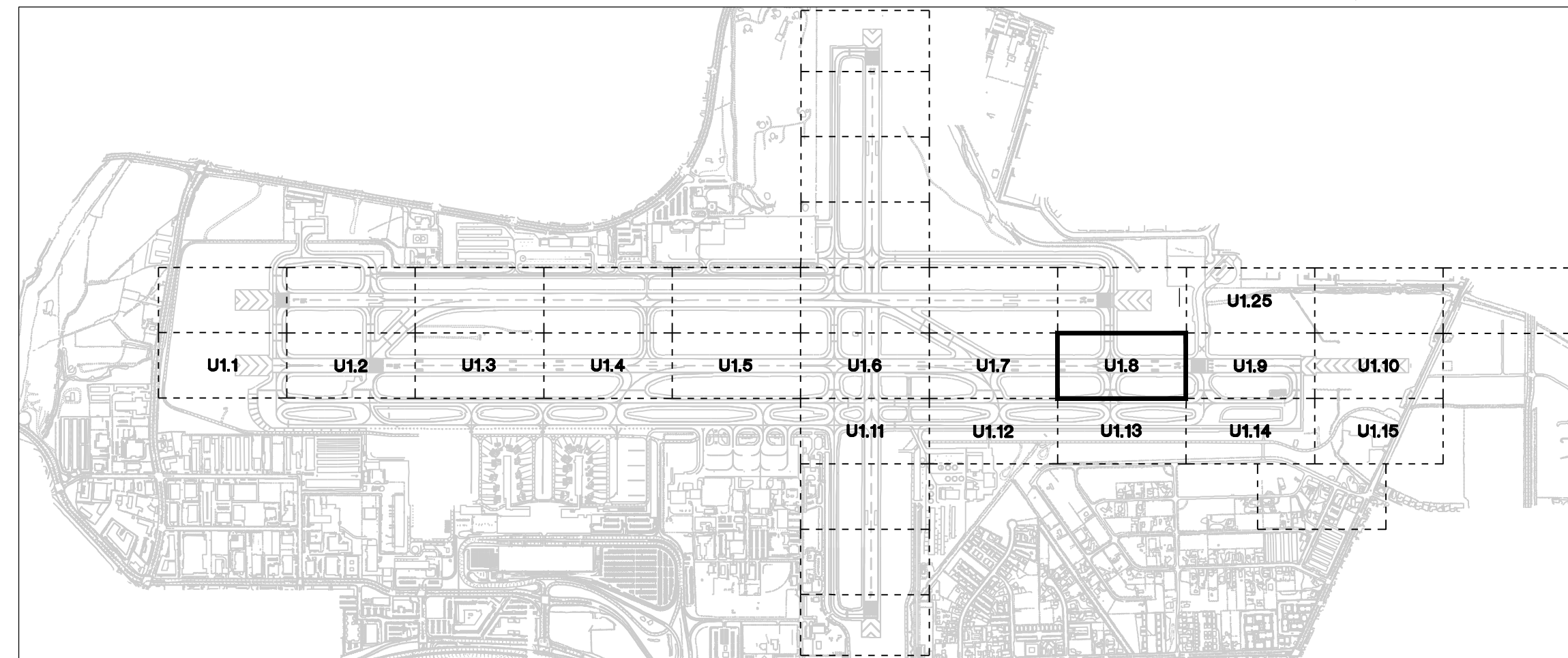


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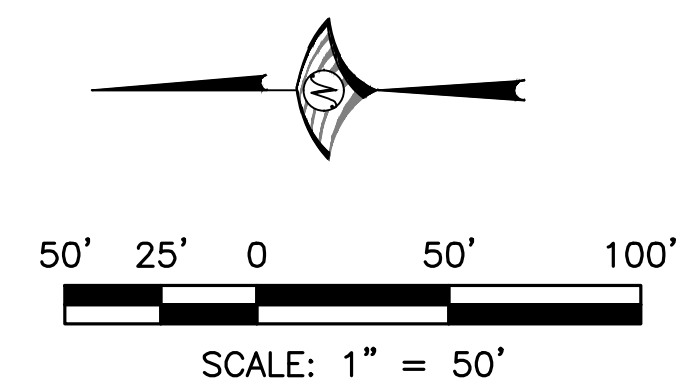
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- PROJECT CONTROL STATION

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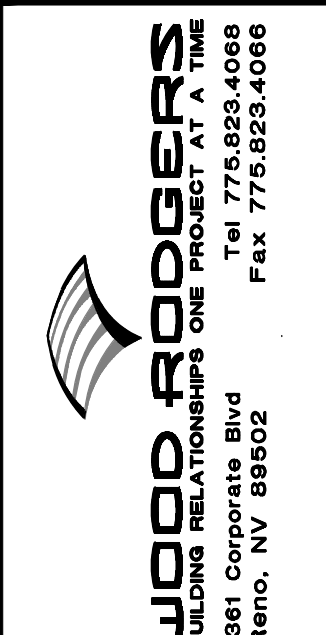
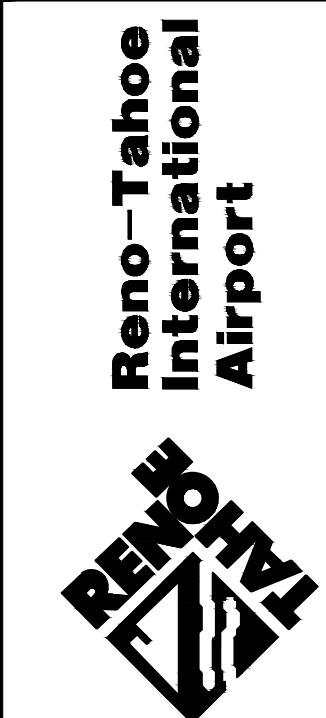
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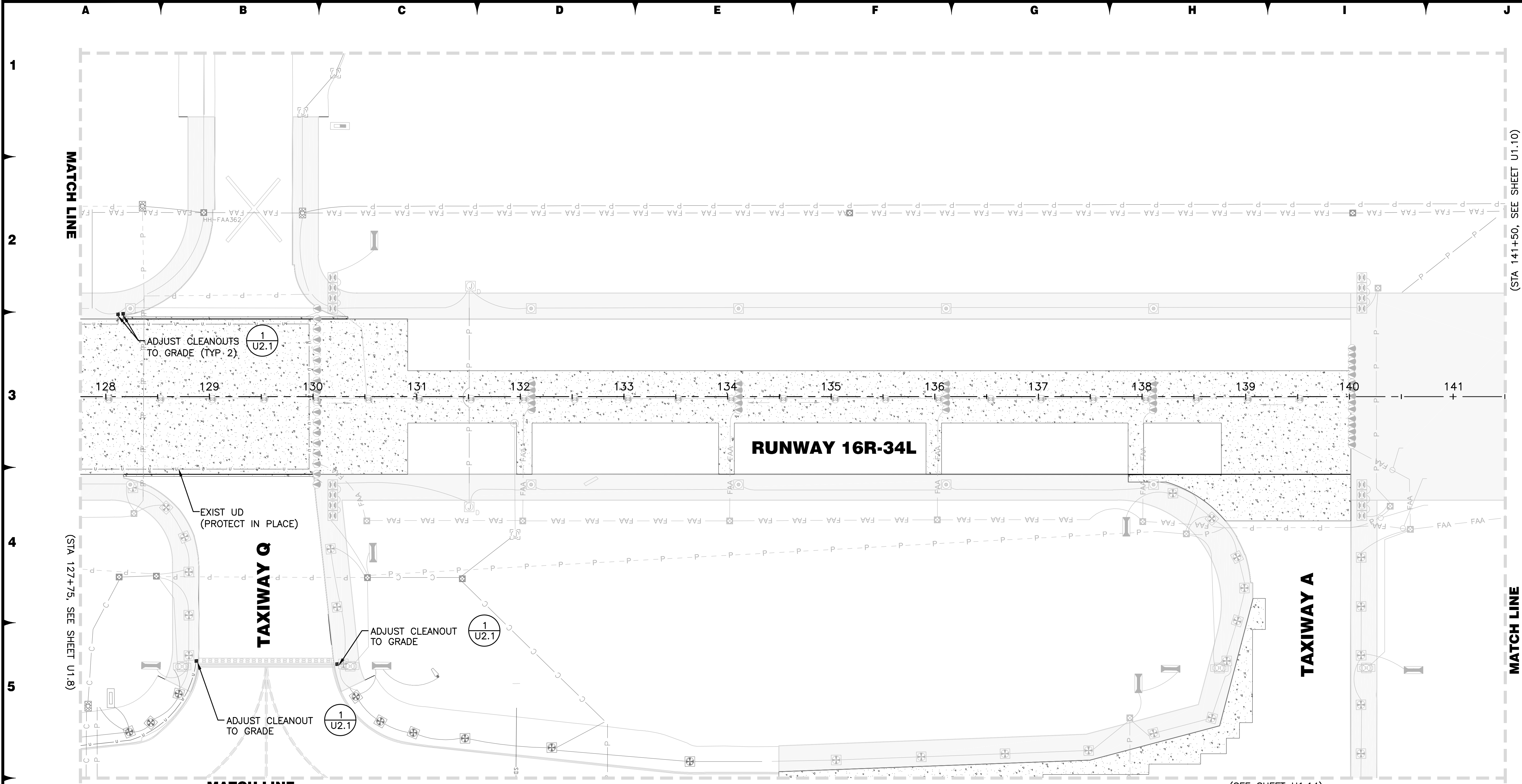


KEY MAP



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC
				
				
				
RUNWAY 16R-34L RECONSTRUCTION				
UTILITY LAYOUT PLAN				
PROJECT NO. 8494.002				
DRAWING U1.8				

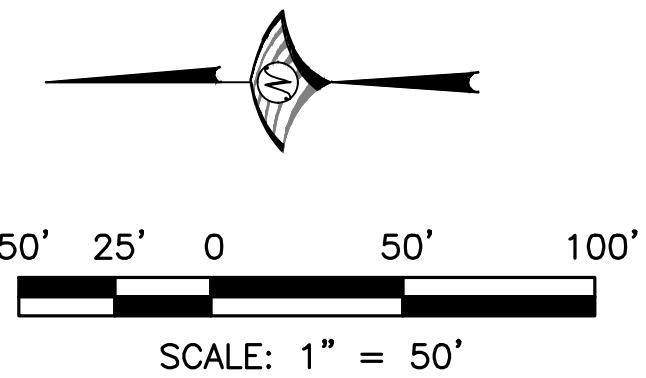
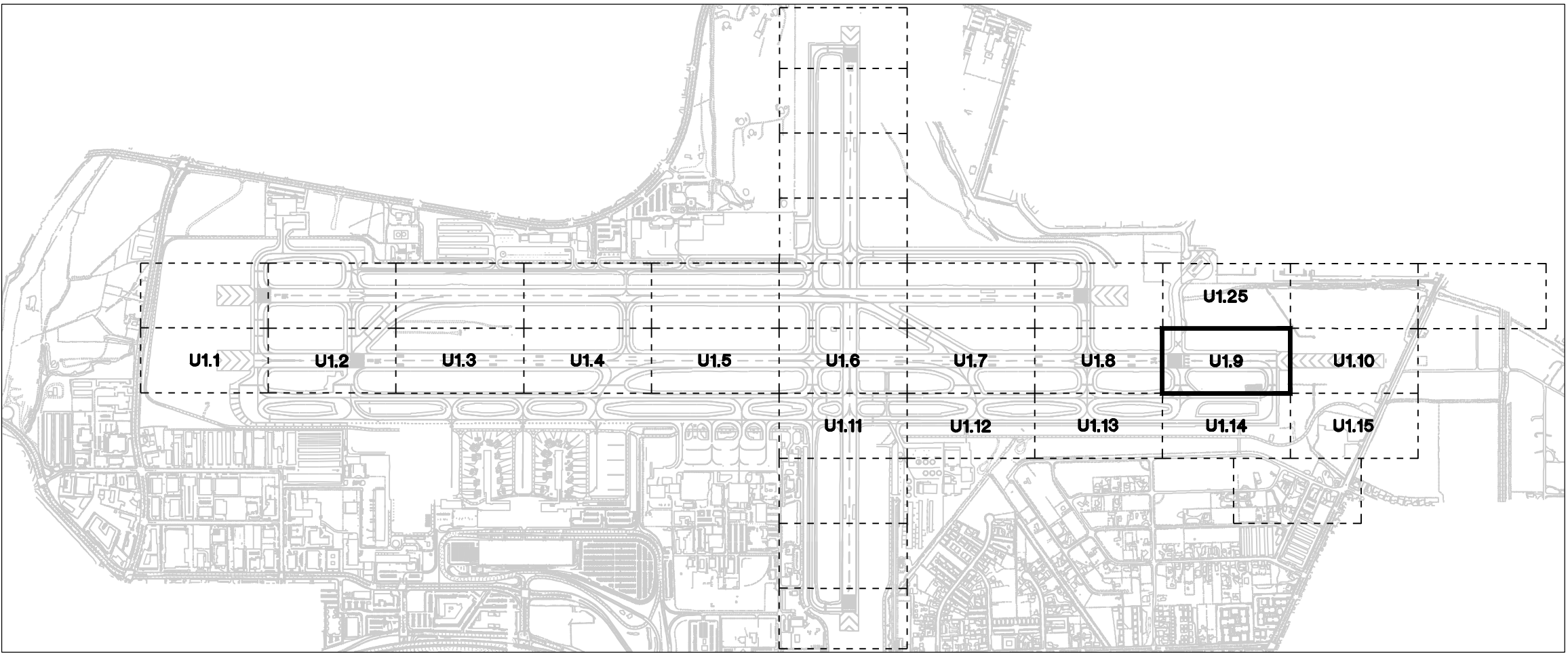


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- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- PROJECT CONTROL STATION

NOTES

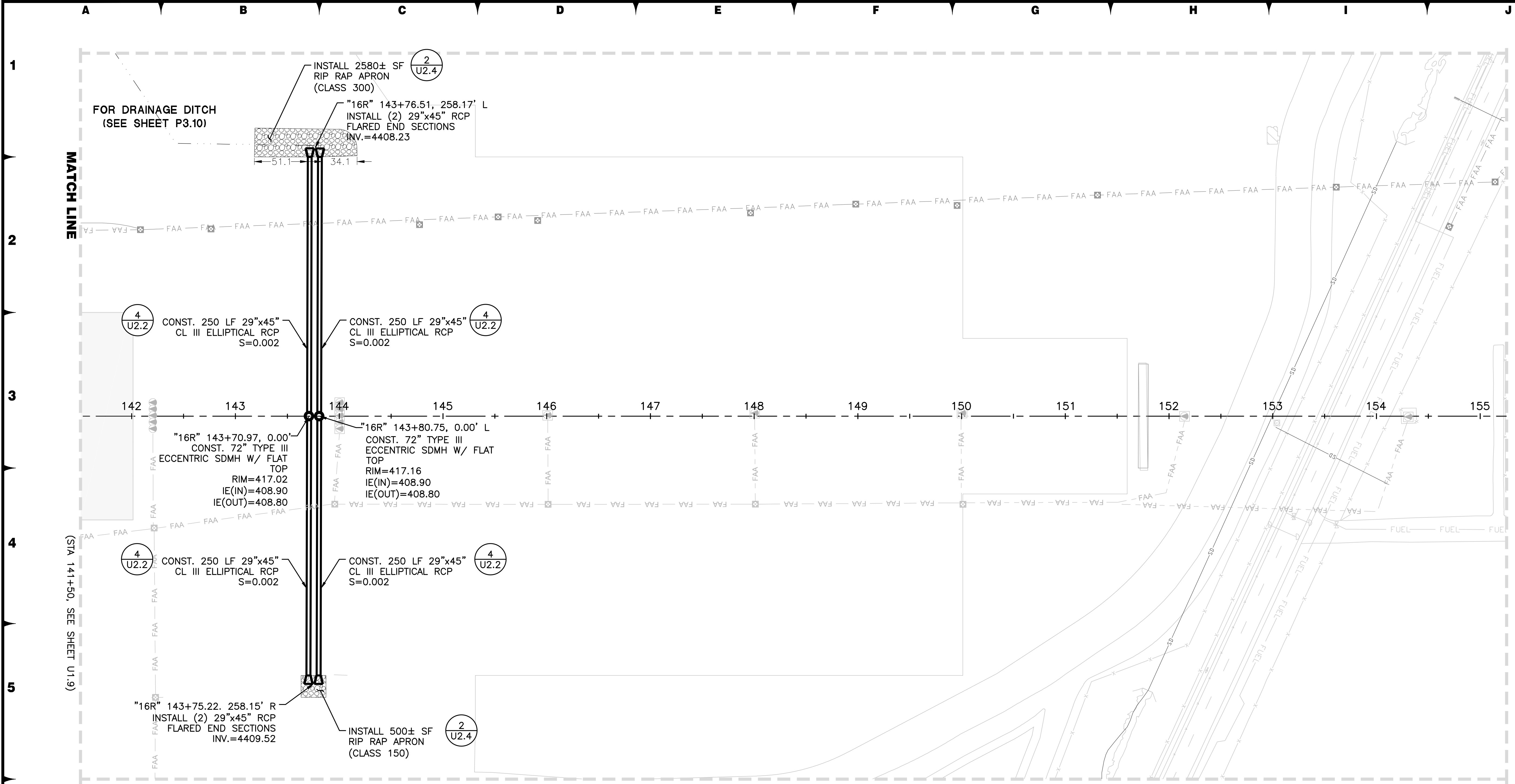
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 WOOD RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME 1881 Corporate Blvd Reno, NV 89502 Tel 775.823.4068 Fax 775.823.4066				
 Reno-Tahoe International Airport				
RUNWAY 16R-34L RECONSTRUCTION		UTILITY LAYOUT PLAN		
PROJECT NO. 8494.002				
DRAWING U1.9				

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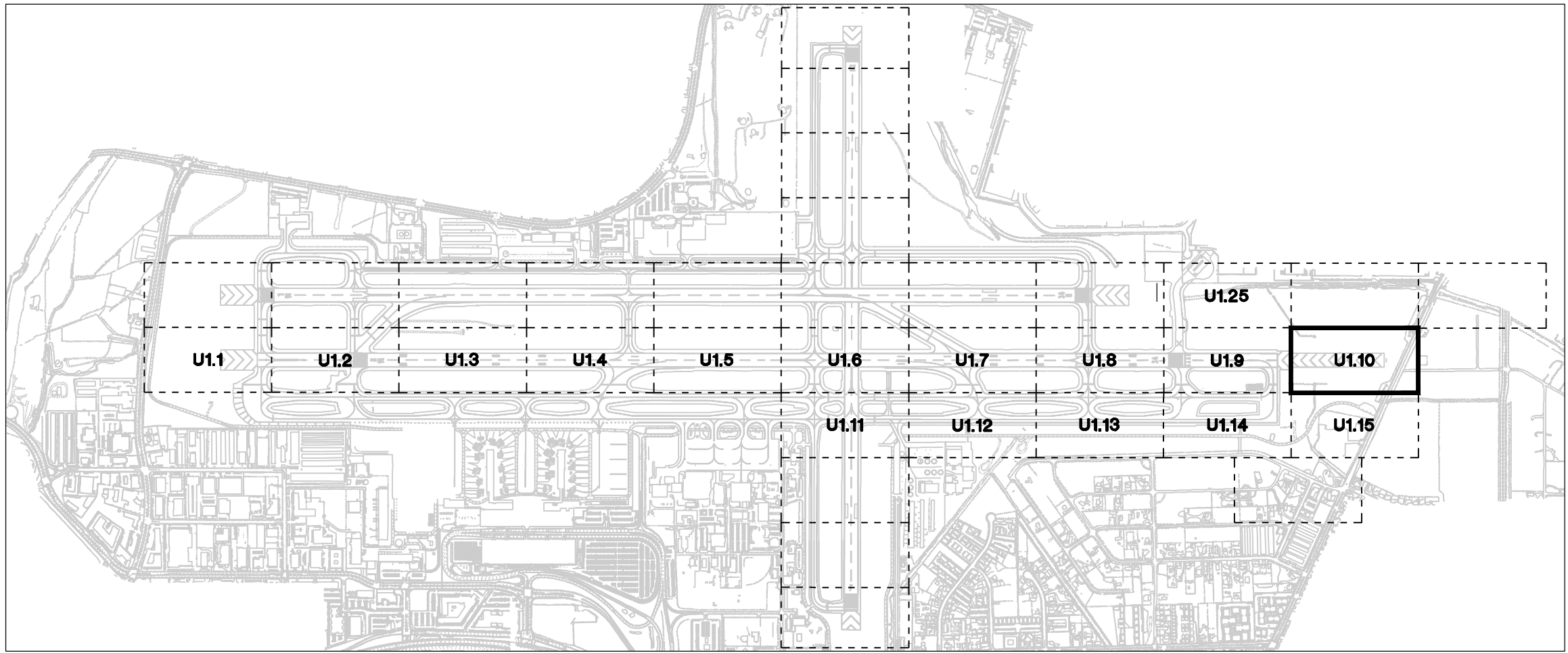


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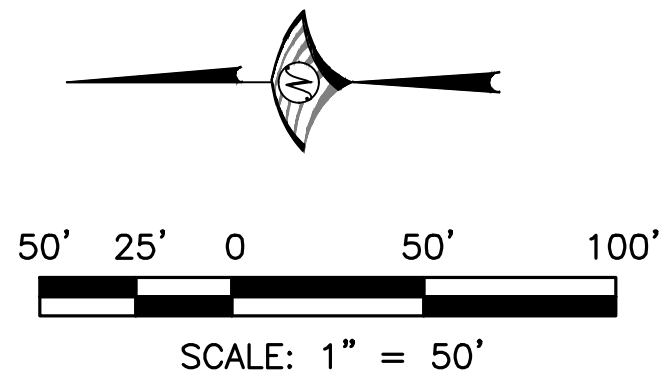
- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- PROJECT CONTROL STATION

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KEY MAP



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019

SCALE: N/A

DRAWN BY: DAB

DESIGNED BY: MAK, BAM

CHECKED BY: MAC

PROFESSIONAL ENGINEER - STATE OF NEVADA

BRIAN A. MARTINEZ-MOLESI

Exp. 12-31-21

CIVIL

No. 21202

WOOD-RODGERS

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Fax 775.823.4066

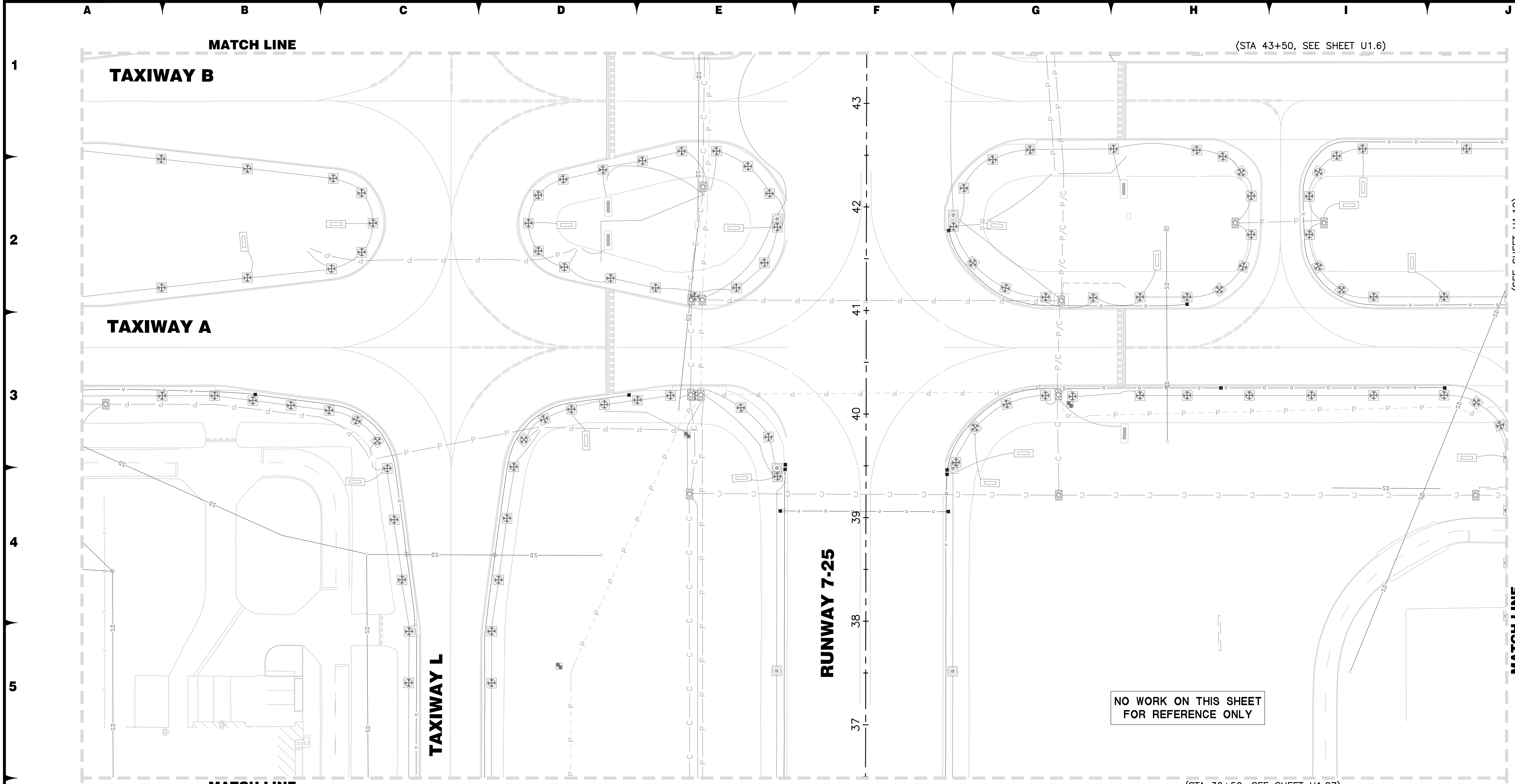
1881 Corporate Blvd

Reno, NV 89502

Reno-Tahoe International Airport

PROJECT NO. 8494.002

DRAWING U1.10

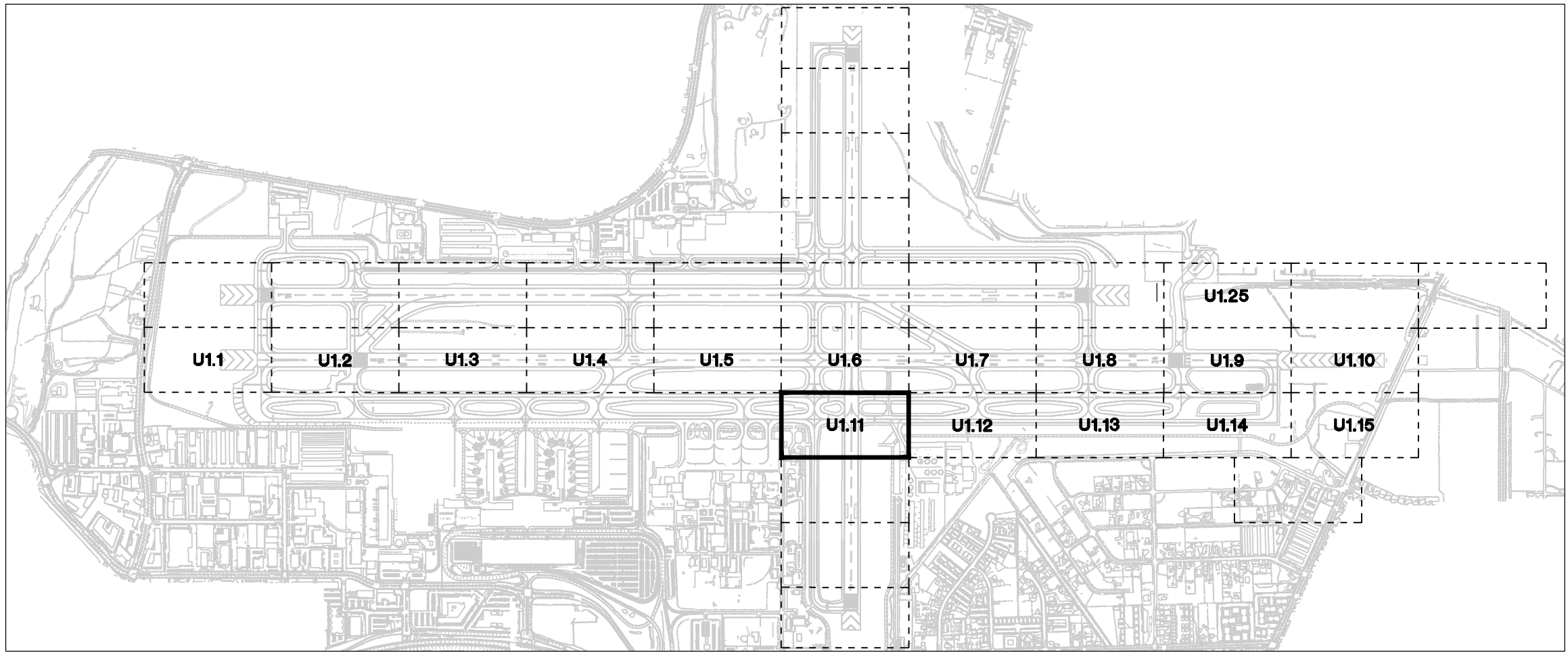


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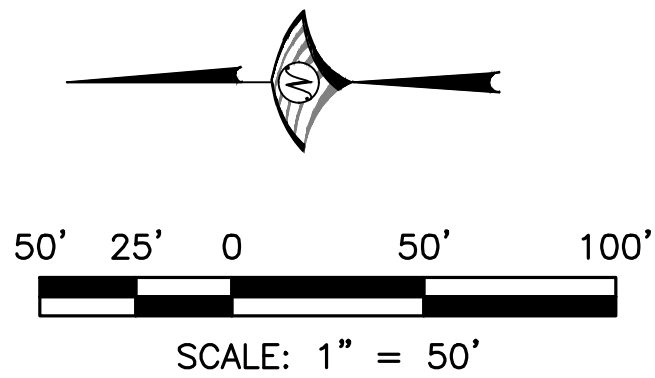
- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

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PROFESSIONAL ENGINEER STATE OF NEVADA BRIAN A. MARTINEZ MOLES Exp. 12-31-21 CIVIL No. 21202				NO. DESCRIPTION DATE

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1881 Corporate Blvd
Reno, NV 89502
Tel 775.823.4068
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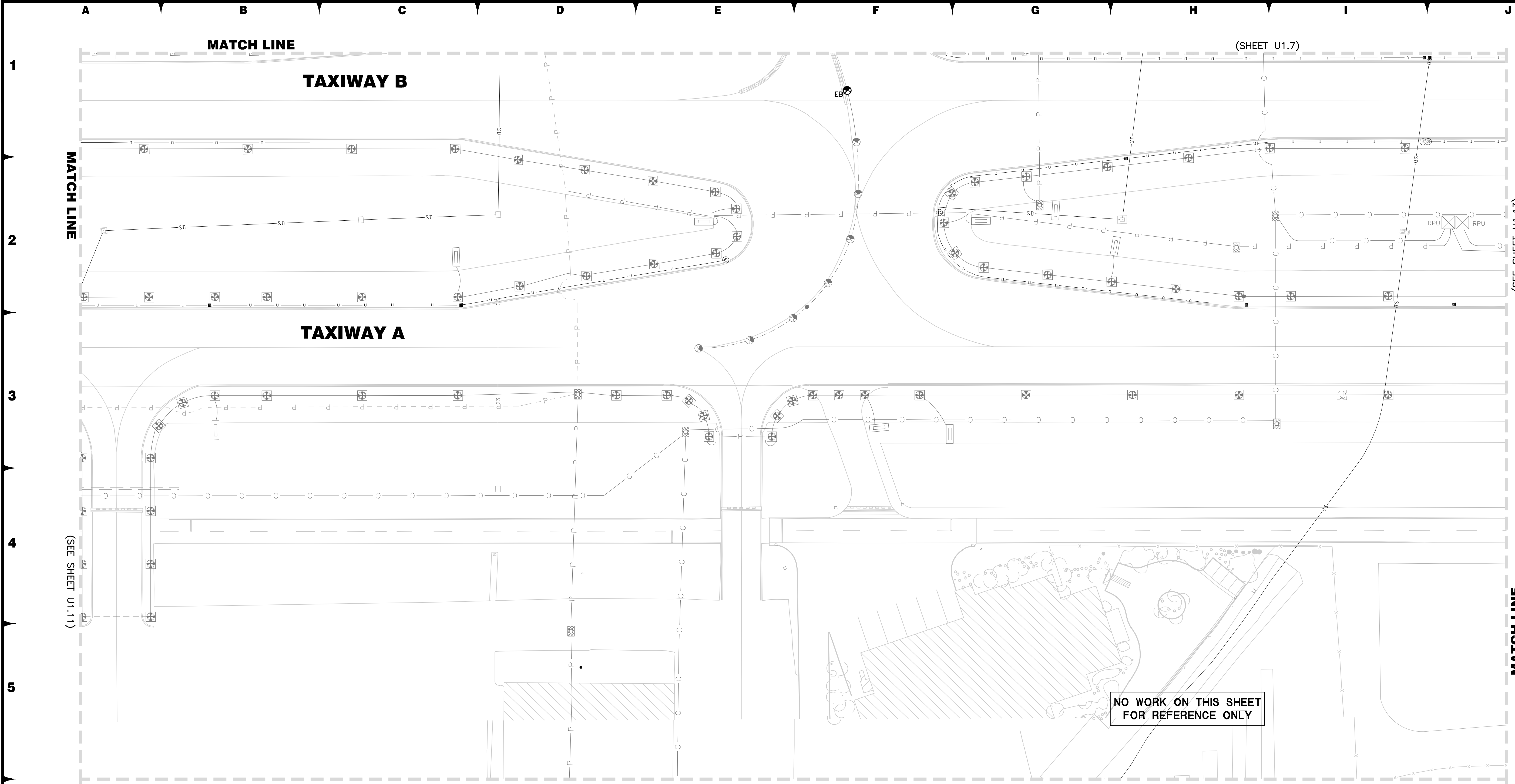
Reno-Tahoe International Airport

RUNWAY 16R-34L RECONSTRUCTION

UTILITY LAYOUT PLAN

PROJECT NO. 8494.002

DRAWING **U1.11**

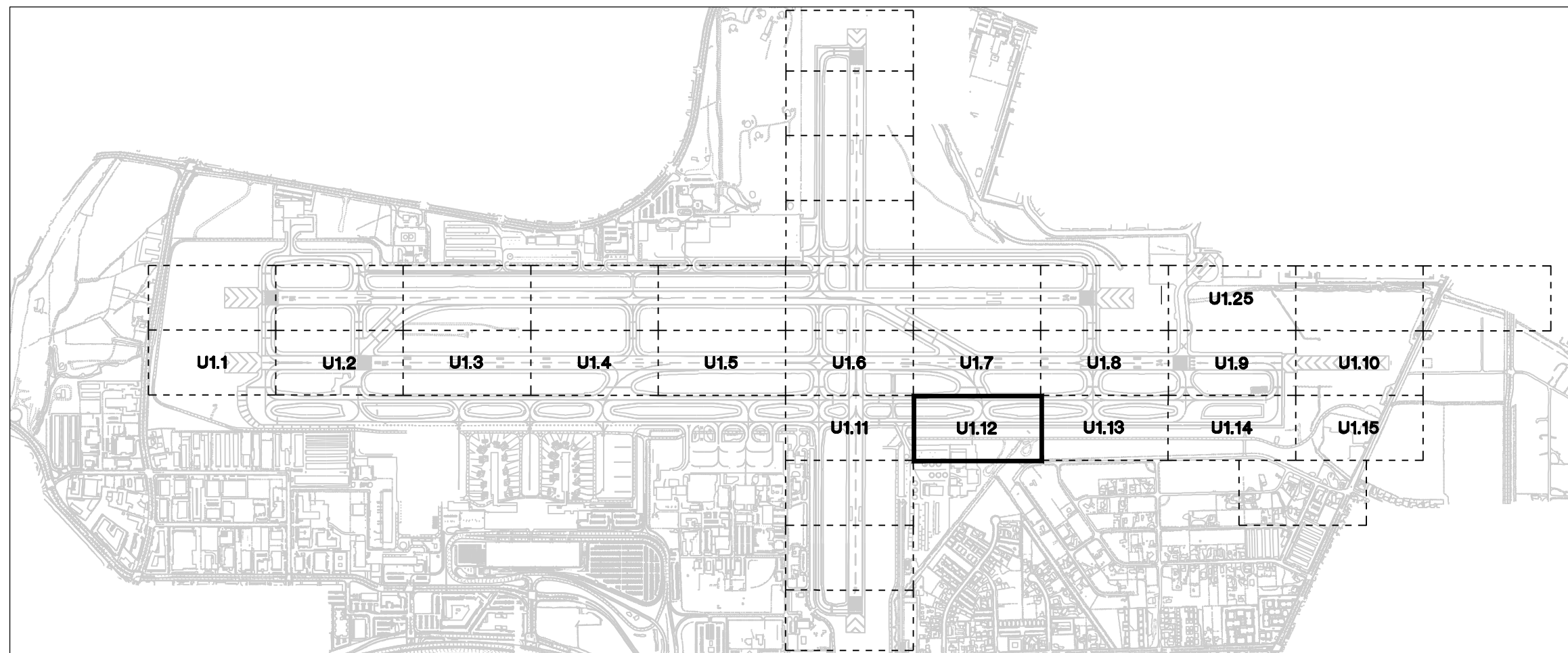


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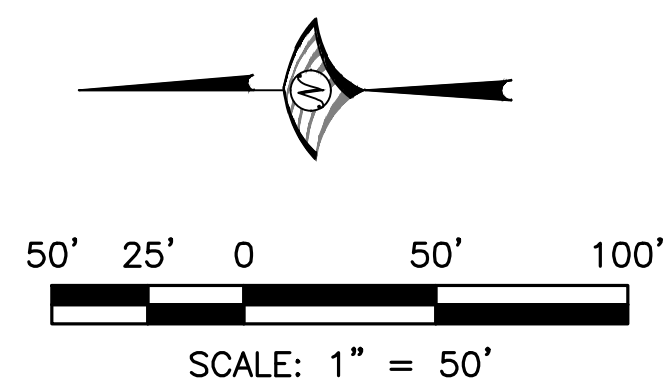
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- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

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KEY MAP



NO WORK ON THIS SHEET
FOR REFERENCE ONLY

FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC
PROFESSIONAL ENGINEER - STATE OF NEVADA				NO.
BRIAN A. MARTINEZMOLES				DESCRIPTION
Exp. 12-31-21				DATE
CIVIL				

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Tel 775.823.4068
Fax 775.823.4066

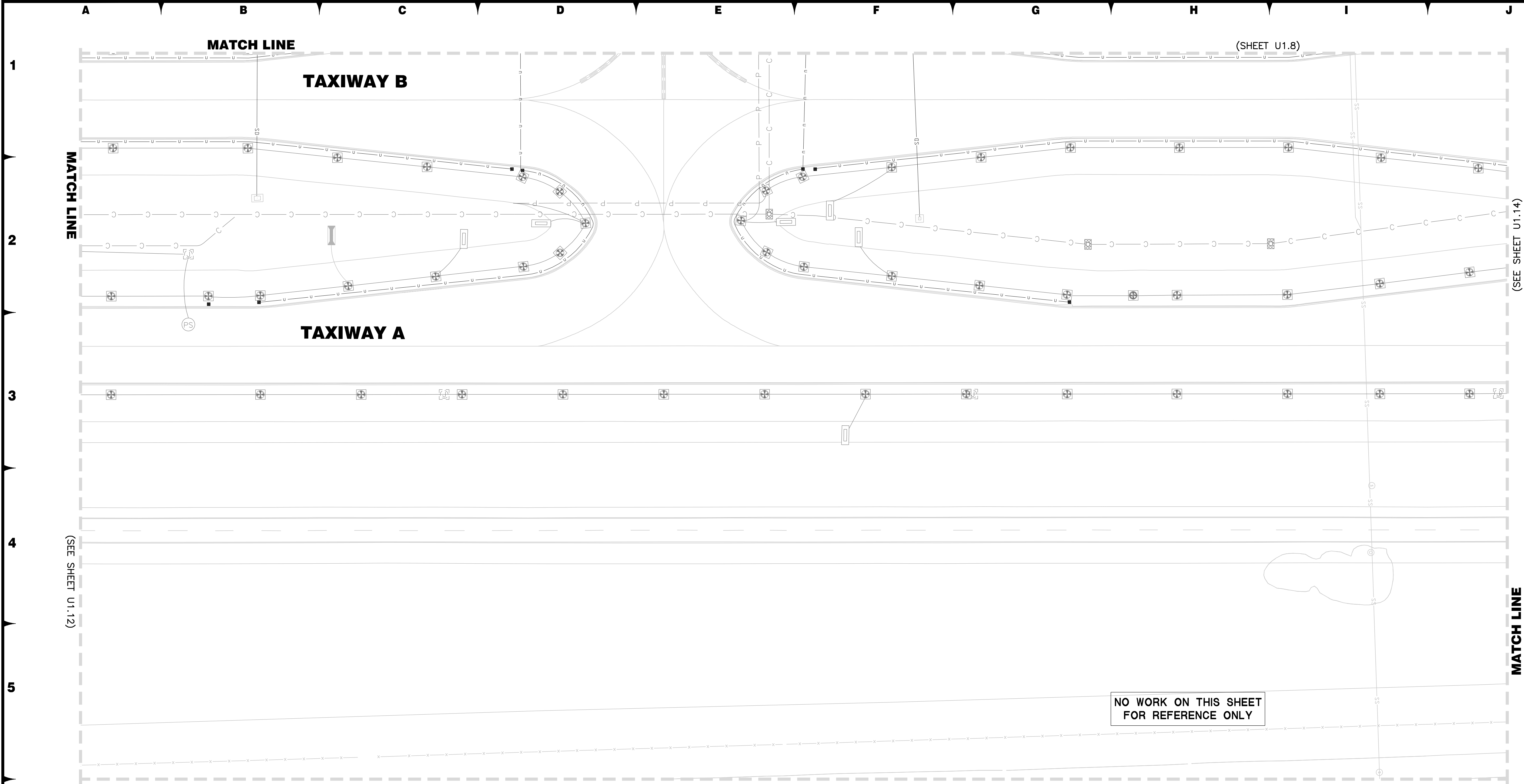
Reno-Tahoe
International
Airport

RUNWAY 16R-34L RECONSTRUCTION

UTILITY LAYOUT PLAN

PROJECT NO.
8494.002

DRAWING
U1.12

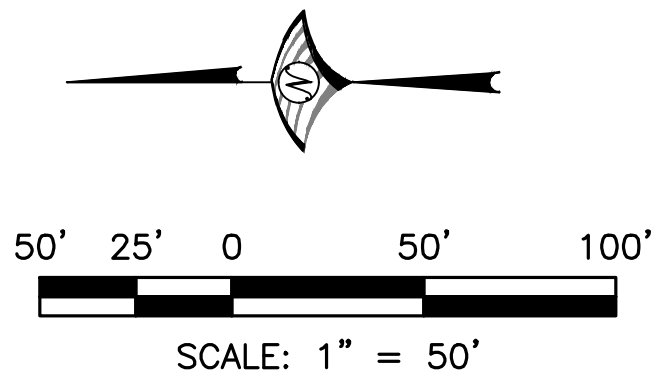
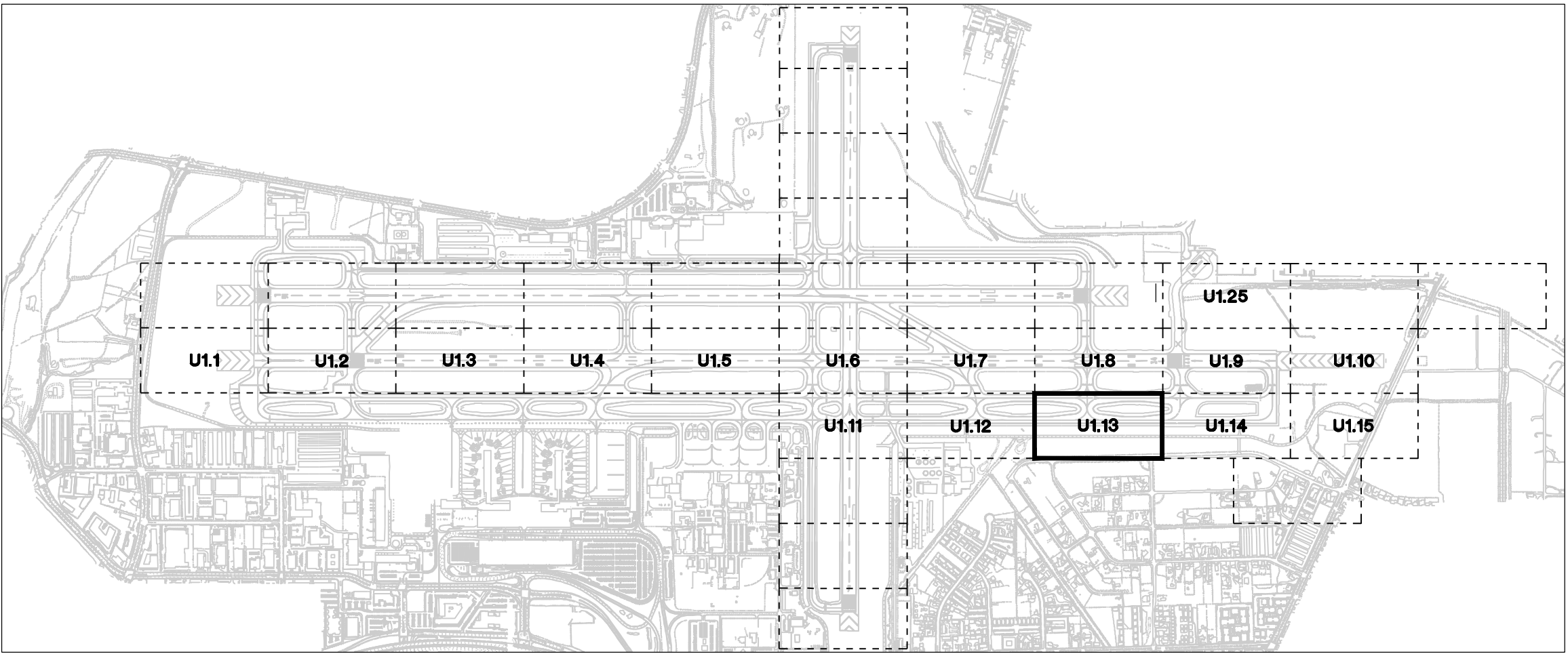


LEGEND

- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

NOTES

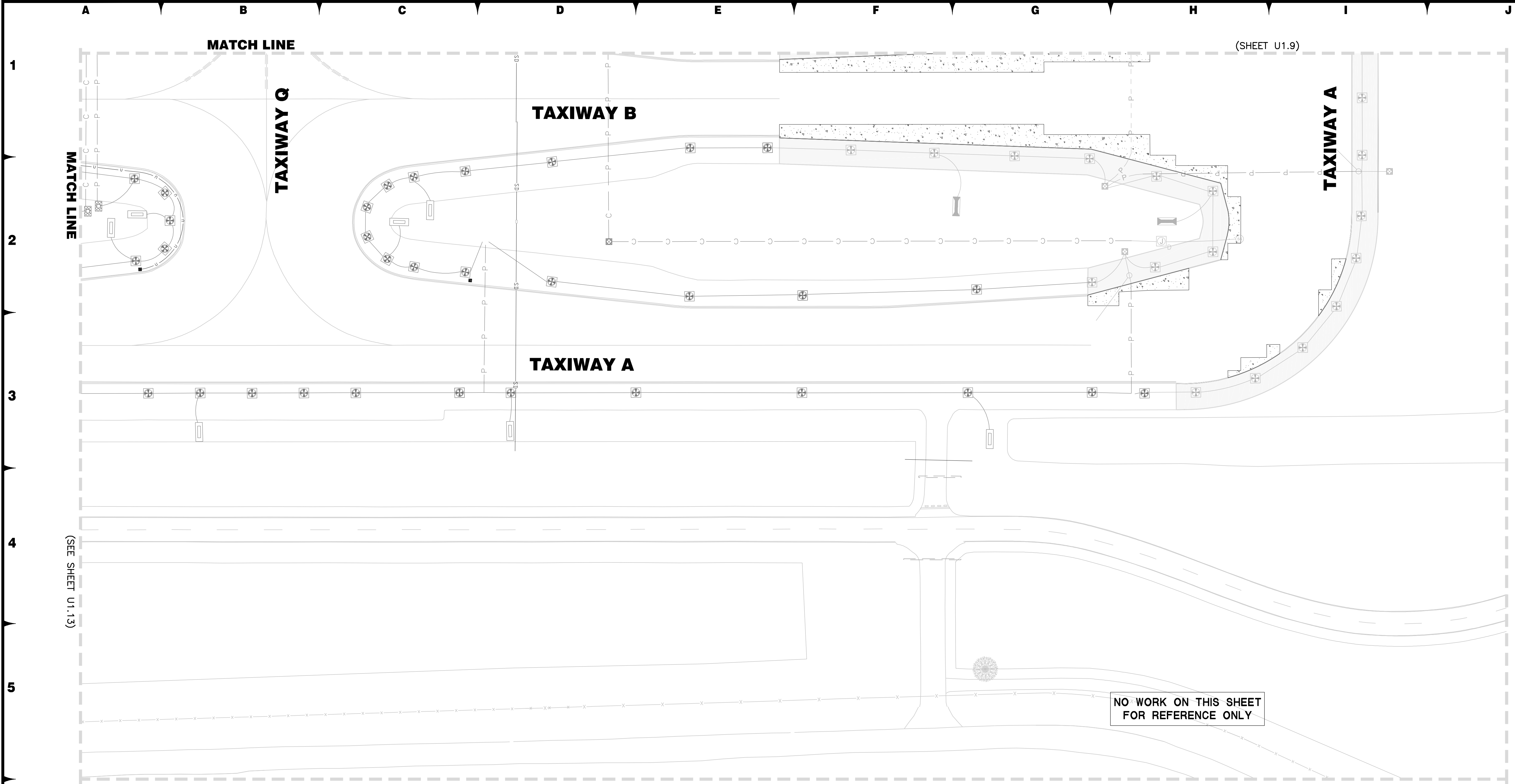
1. REFERENCE DRAWING G4.1 FOR ALIGNMENT INFORMATION.
2. REFERENCE DRAWINGS PH0.1-PH4.5 FOR PHASING LIMITATIONS.
3. CONTRACTOR TO VERIFY EXISTING DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTING STORM DRAIN AND UNDERDRAIN PIPING.
4. CONTRACTOR TO PROVIDE TEMPORARY STORM WATER BYPASS AND EROSION PROTECTIONS PER SPECIFICATION P-156. THERE SHALL BE NO DIRECT PAYMENT FOR THIS WORK.
5. REFER TO ELECTRICAL SHEETS FOR ELECTRICAL UTILITY INFORMATION.
6. CONTRACTOR TO PROTECT EXISTING UNDERDRAIN IN PLACE AND RESTORE UNDERDRAIN TRENCH AS SHOWN ON SHEET P1.1 AND U2.4.
7. REFER TO SHEETS P2.1-P2.26 FOR BID LAYOUT INFORMATION.



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC
PROFESSIONAL ENGINEER - STATE OF NEVADA BRIAN A. MARTINEZMOLES Exp. 12-31-21 CIVIL No. 21202				
WOOD-RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME 1881 Corporate Blvd Reno, NV 89502 Tel 775.823.4068 Fax 775.823.4066				
Reno-Tahoe International Airport				
RUNWAY 16R-34L RECONSTRUCTION				
UTILITY LAYOUT PLAN				
PROJECT NO. 8494.002				
DRAWING U1.13				

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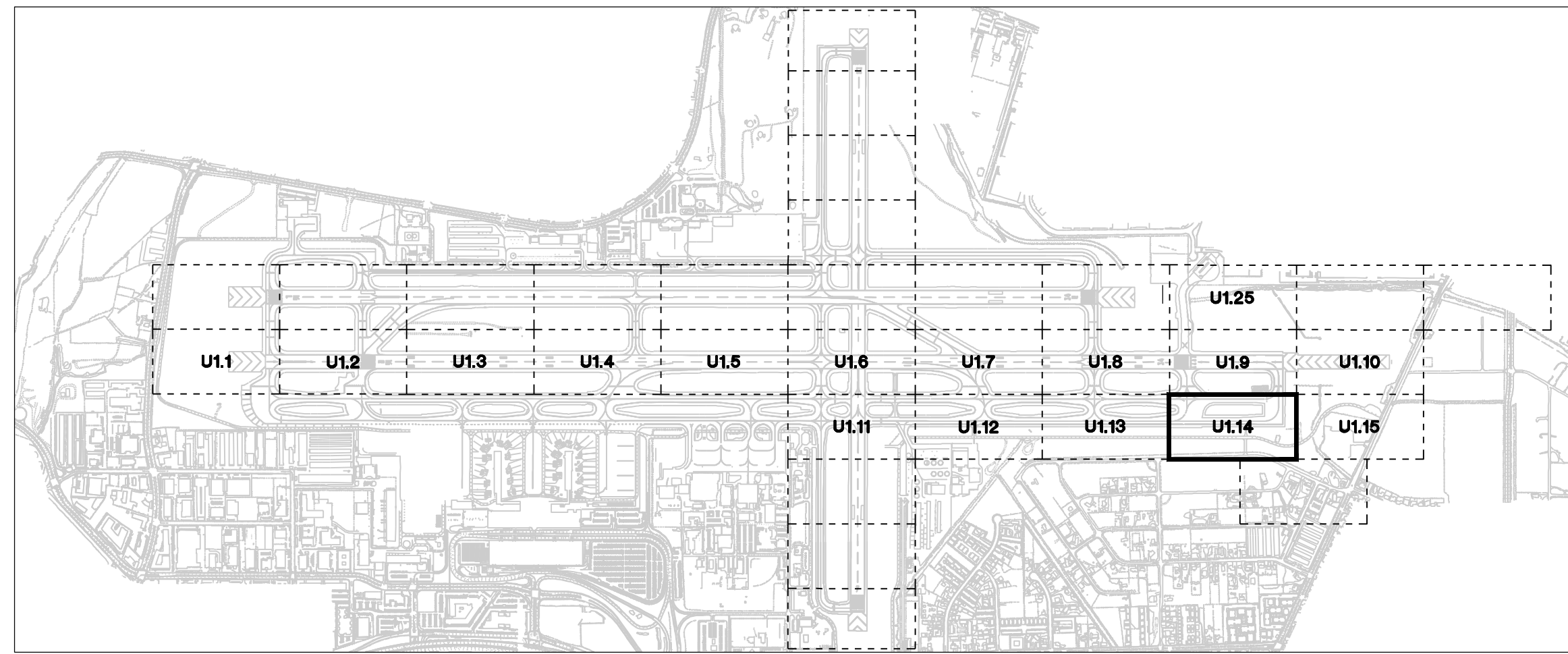


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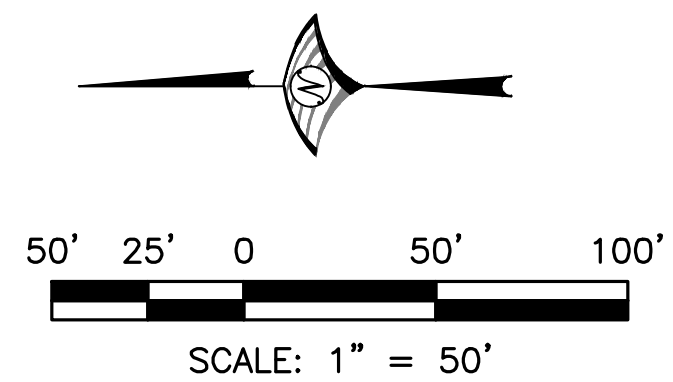
- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- 55 PROJECT CONTROL STATION

NOTES

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- REFERENCE DRAWINGS PH0.1–PH4.5 FOR PHASING LIMITATIONS.
- CONTRACTOR TO VERIFY EXISTING DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTING STORM DRAIN AND UNDERDRAIN PIPING.
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- REFER TO SHEETS P2.1–P2.26 FOR BID LAYOUT INFORMATION.



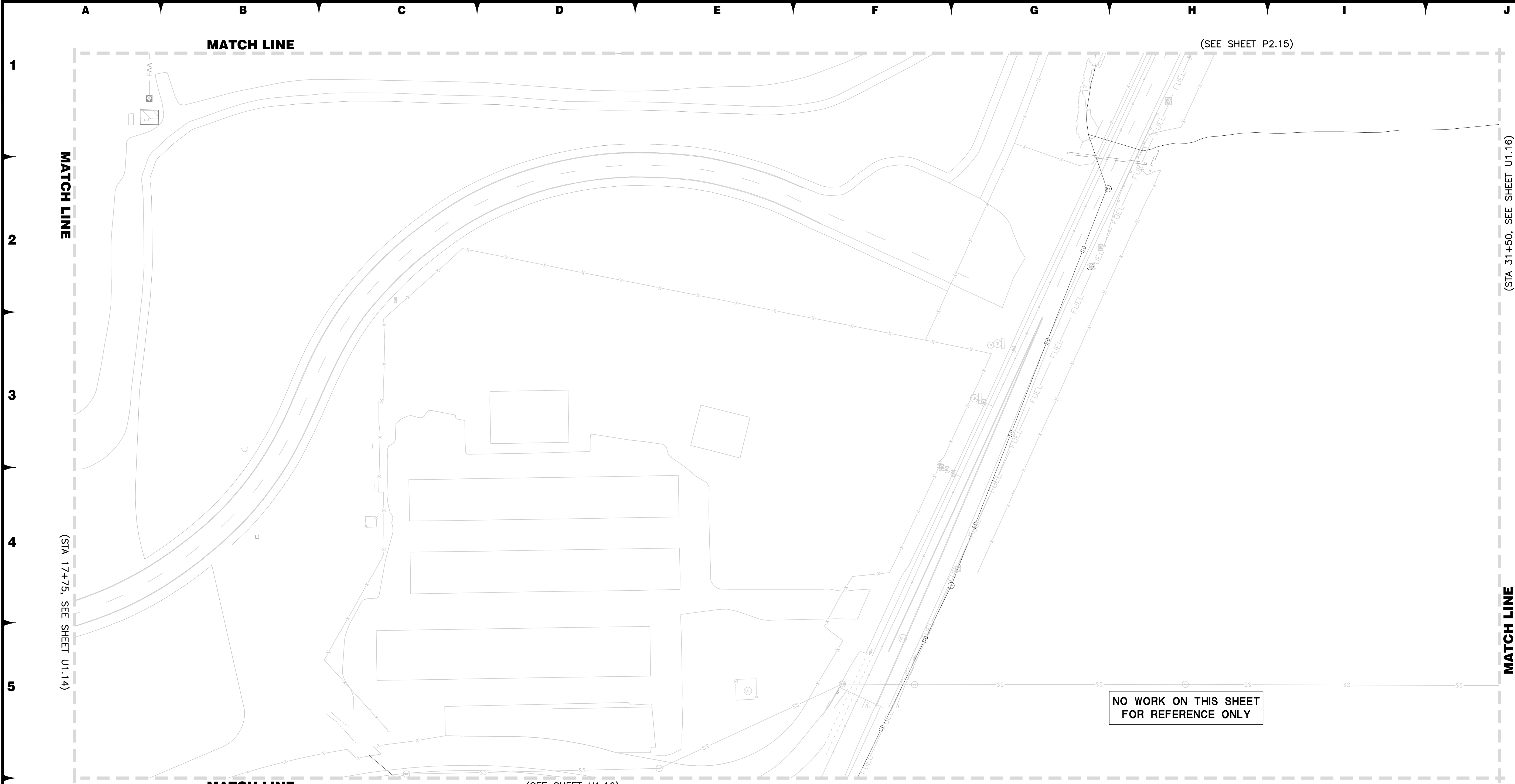
KEY MAP



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC
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 Reno-Tahoe International Airport				
RUNWAY 16R-34L RECONSTRUCTION		UTILITY LAYOUT PLAN		
PROJECT NO. 8494.002				
DRAWING U1.14				

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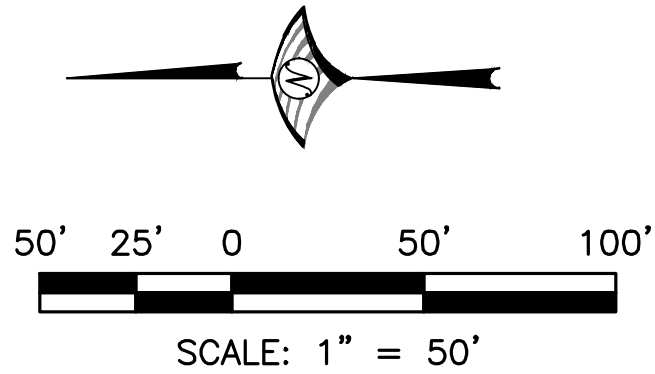
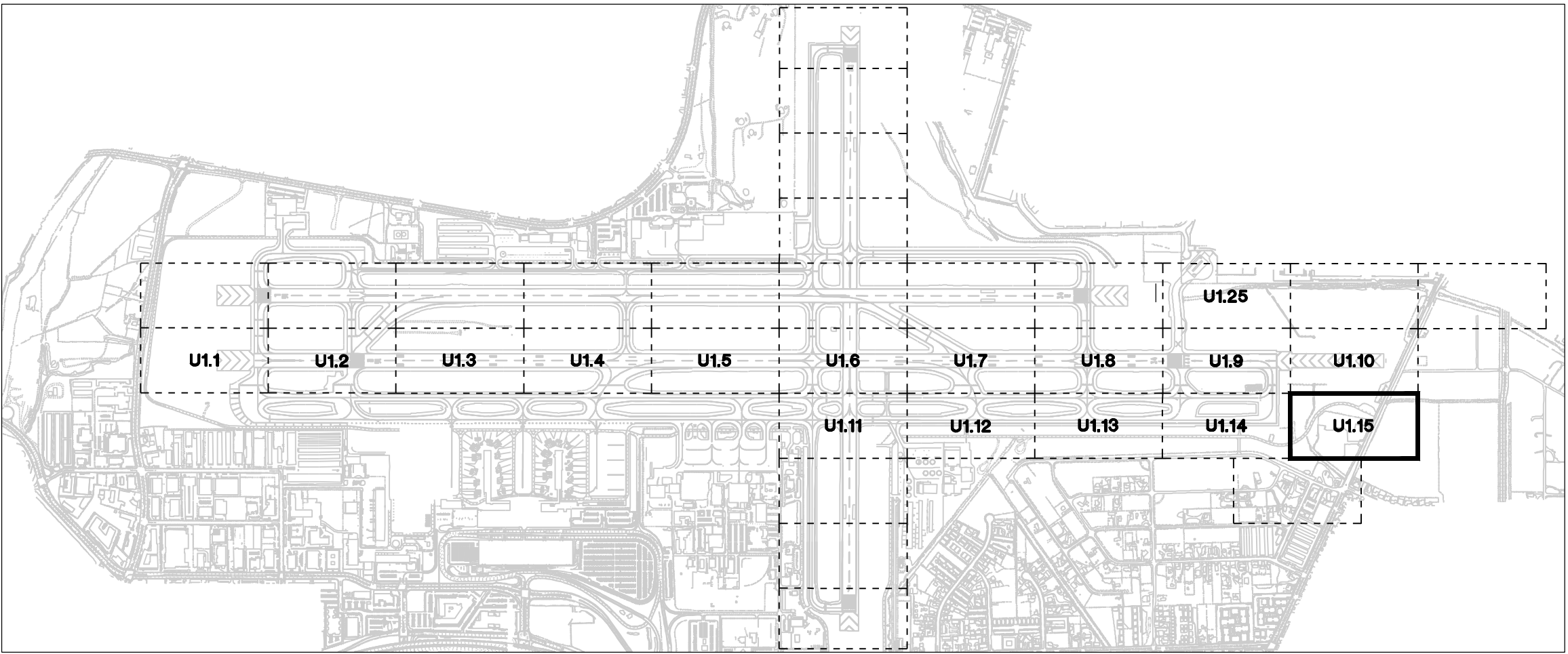


LEGEND

- AC PAVEMENT
- CONCRETE PCC PAVEMENT
- PROJECT CONTROL STATION

NOTES

- REFERENCE DRAWING G4.1 FOR ALIGNMENT INFORMATION.
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- REFER TO SHEETS P2.1-P2.26 FOR BID LAYOUT INFORMATION.



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019	SCALE: N/A	DRAWN BY: DAB	DESIGNED BY: MAK, BAM	CHECKED BY: MAC
PROFESSIONAL ENGINEER - STATE OF NEVADA				NO.
BRIAN A. MARTINEZ MOLES				DESCRIPTION
Exp. 12-31-21				DATE
CIVIL				
No. 21202				

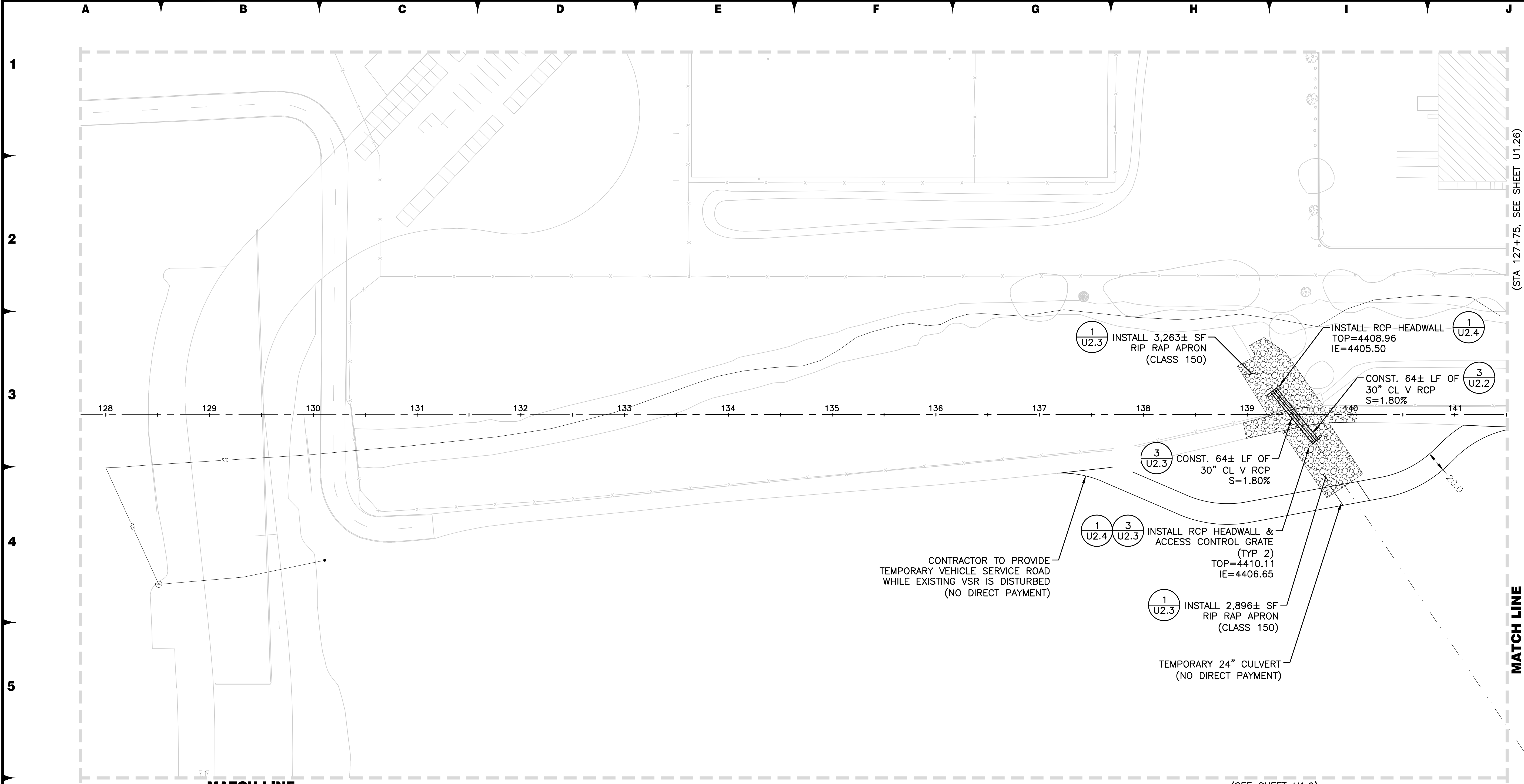
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Fax 775.823.4066

Reno-Tahoe International Airport

UTILITY LAYOUT PLAN

PROJECT NO. 8494.002

DRAWING U1.15

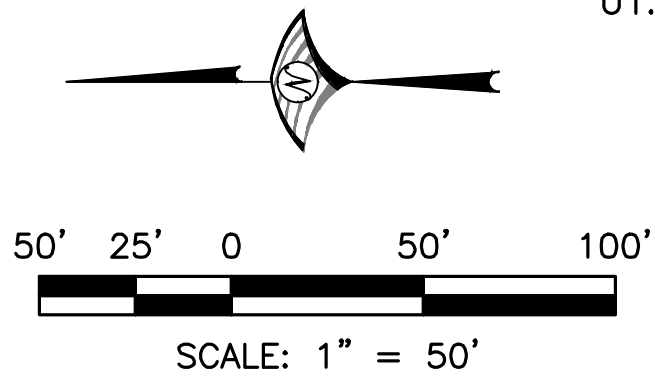
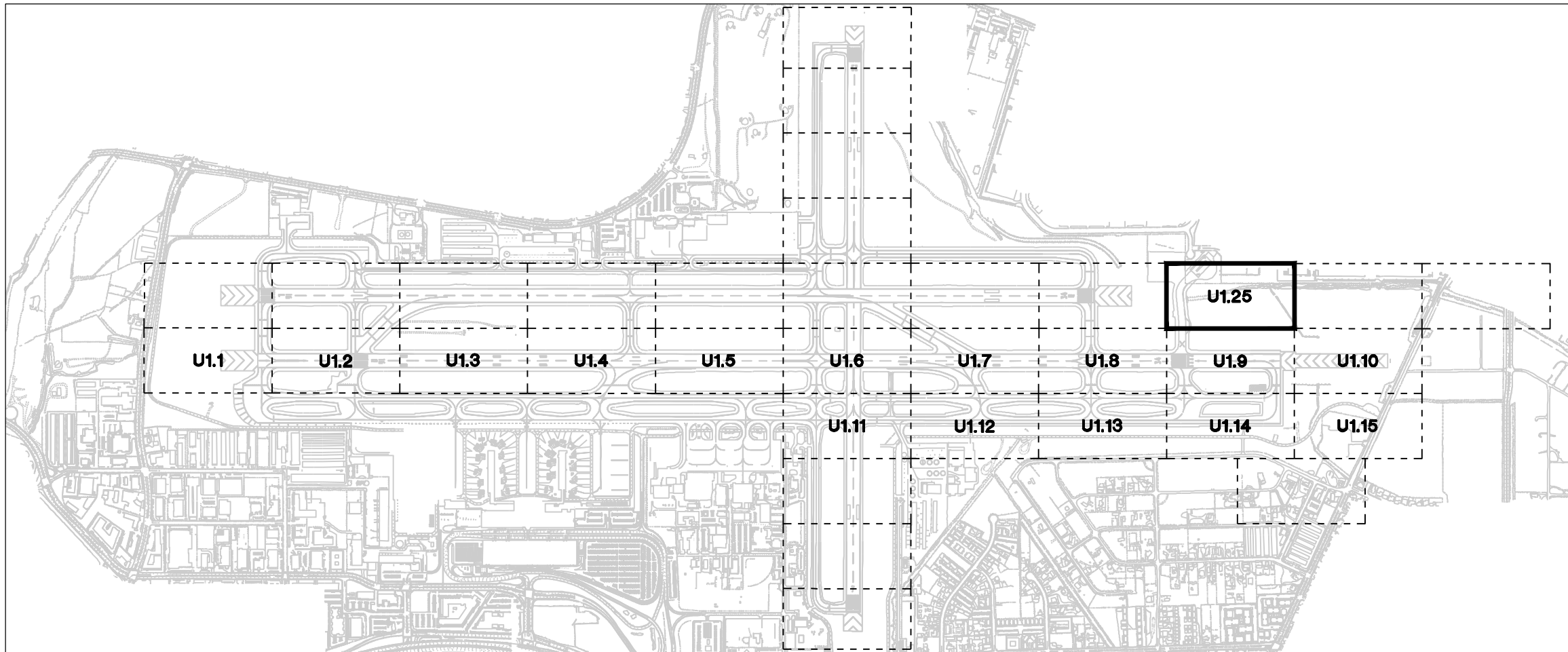


LEGEND:

- AC PAVEMENT
- PROJECT CONTROL STATION

NOTES:

- REFERENCE DRAWING G4.1 FOR ALIGNMENT INFORMATION.
- REFERENCE DRAWINGS PH1.1-PHX.X FOR PHASING LIMITATIONS.
- CONTRACTOR TO VERIFY EXISTING DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTING STORM DRAIN AND UNDERDRAIN PIPING.
- CONTRACTOR TO PROVIDE TEMPORARY STORM WATER BYPASS AND EROSION PROTECTIONS PER SPECIFICATION P-156. THERE SHALL BE NO DIRECT PAYMENT FOR THIS WORK.



FOR BIDDING PURPOSES ONLY

DATE: DECEMBER 11, 2019

SCALE: N/A

DRAWN BY: DAB

DESIGNED BY: MAK, BAM

CHECKED BY: MAC

PROFESSIONAL ENGINEER STATE OF NEVADA

BRIAN A. MARTINEZ-MOLES

Exp. 12-31-21

CIVIL

No. 21202

WOOD ROGERS

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RUNWAY 16R-34L RECONSTRUCTION

UTILITY LAYOUT PLAN

PROJECT NO. 8494.002

DRAWING U1.25



1. DEPTH OF COLLAR SHALL BE CONSISTENT ALL AROUND DRAINAGE INLET AND FLUSH WITH FINISH GRADE.
2. GRATE SHALL BE BOLTED DOWN WITH GRADE 8 HEX HEAD BOLTS WITH LOCK WASHER. ANTI-SIEZE COMPOUND SHALL BE APPLIED TO BOLTS PRIOR TO INSTALLATION.
3. PRECAST DRAINAGE INLET COMPONENTS SHALL CONFORM TO SPECIFICATION D-751 AND SHALL BE AIRCRAFT RATED PER FAA AC150/5320-6E, APPENDIX 3 LOADING REQUIREMENTS.



4



6



N.T.S.



- N.T.S.



- N.T.S.



3

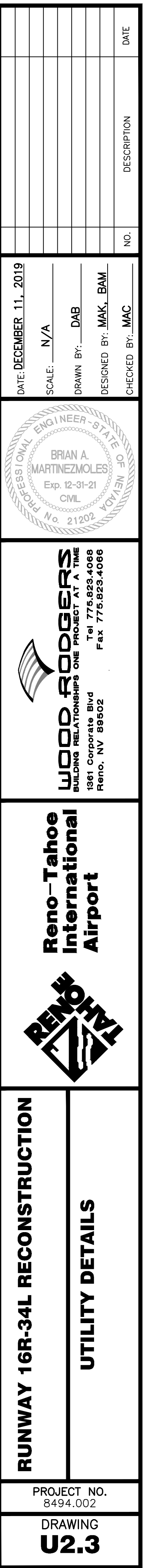
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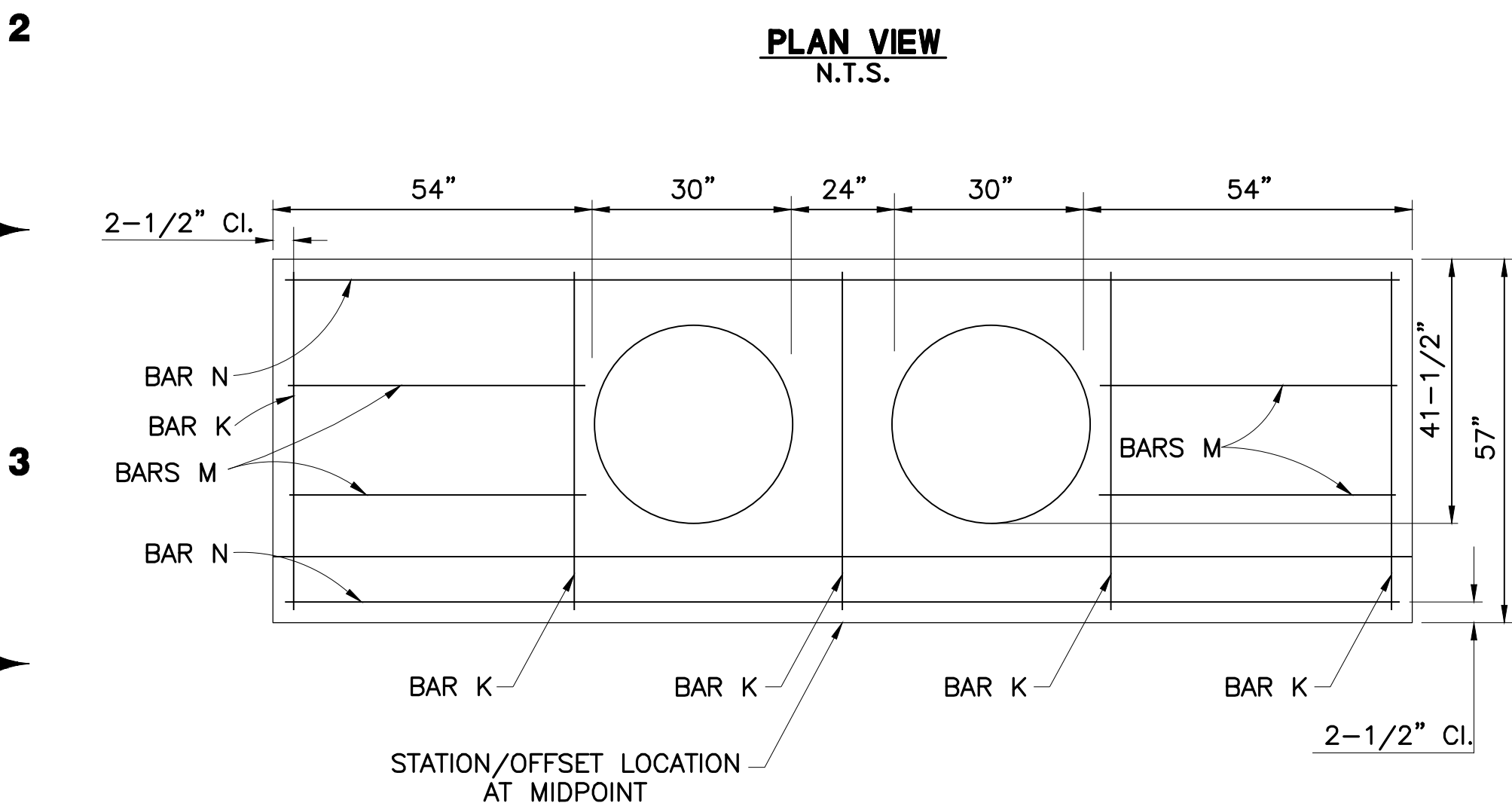
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7

1. \\Jobs\8494 RTIA Runways\RTIA Runway 16R OA\Civil\Draw\2-16R-34 BidPkg2\10202 16R.dwg 12/9/2019 5:09 PM Trevor Shamblin





ELEVATION VIEW
N.T.S.

NOTES:

1. CONCRETE SHALL MEET P-610 REQUIREMENTS.
2. REINFORCING STEEL SHALL BE DEFORMED BARS WITH MAXIMUM SPACING OF 18" SET 2 1/2" CLEAR OF SURFACE OF CONCRETE EXCEPT AS NOTED. BAR ENDS SHALL BE KEPT 1 1/2" CLEAR OF SURFACE OF CONCRETE. REINFORCING BARS MAY BE CUT AND BENT IN FIELD.
3. FOOTINGS SHOWN ARE OF MINIMUM DEPTH AND SHALL BE EXTENDED IF SOIL IS UNSUITABLE OR LIABLE TO SCOUR.

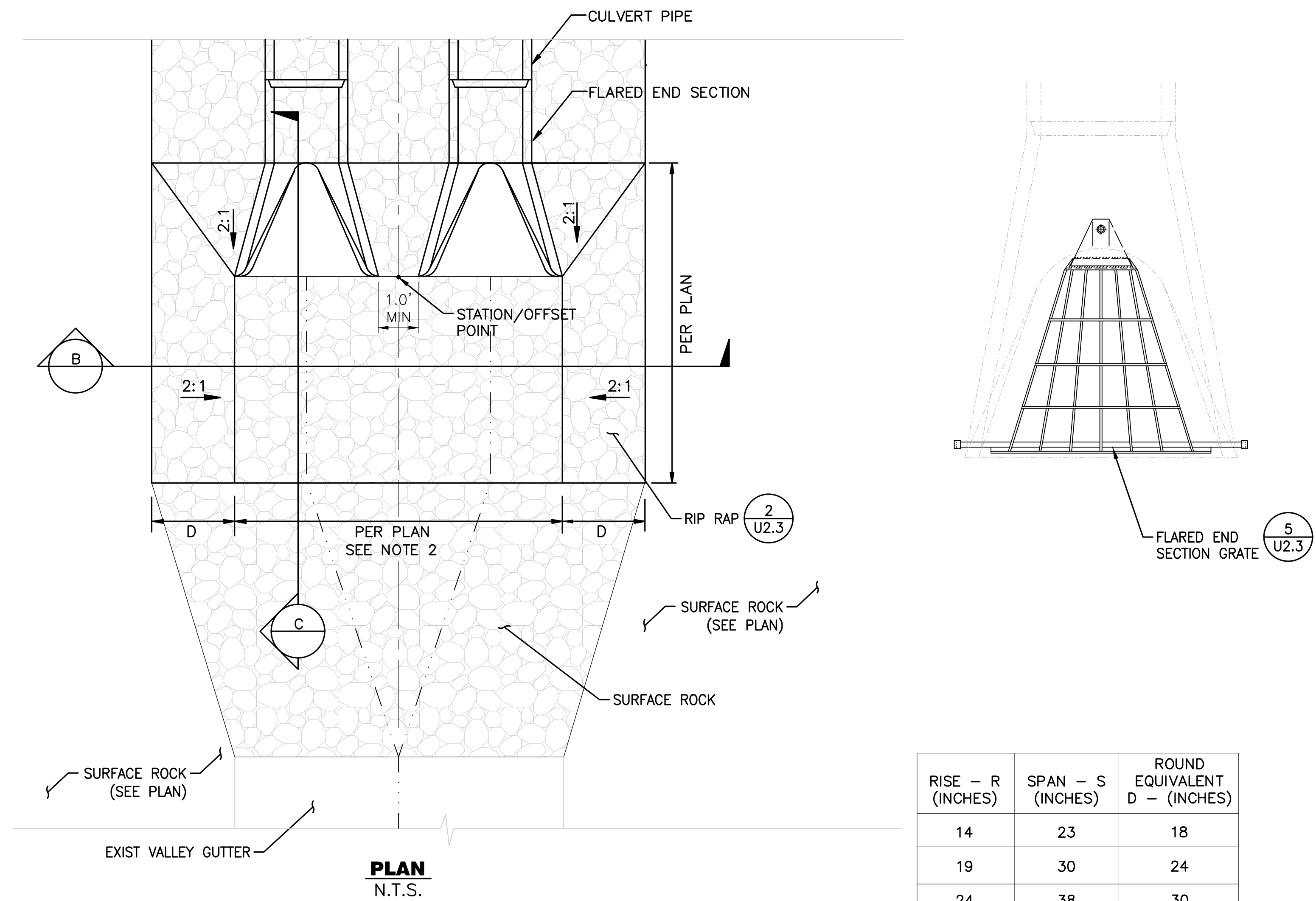
QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS

RCP SIZE DIA.	RCP AREA SQ.FT.	SINGLE RCP	
		0° SKEW	
		CONC. CU. YD.	STEEL LB.
30"	4.91	3.08	117

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL

SINGLE RCP			
LENGTH OF REINFORCING BARS			
RCP	O' SKEW		
DIA.	M	K	N
	NO. 4	NO. 4	NO. 5
30"	4@4'-0"	9@4'-6"	2@15'-9"

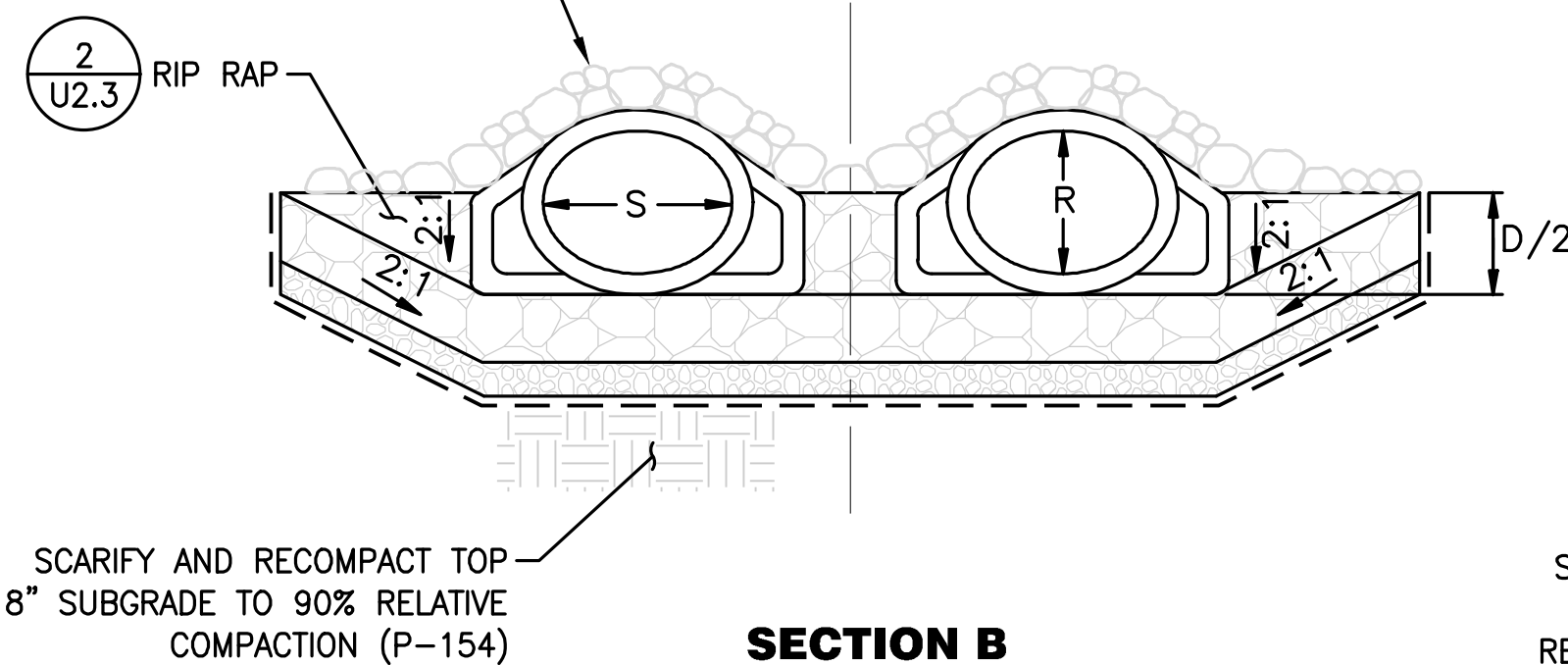
1 RCP HEADWALL
U2.4 N.T.S.



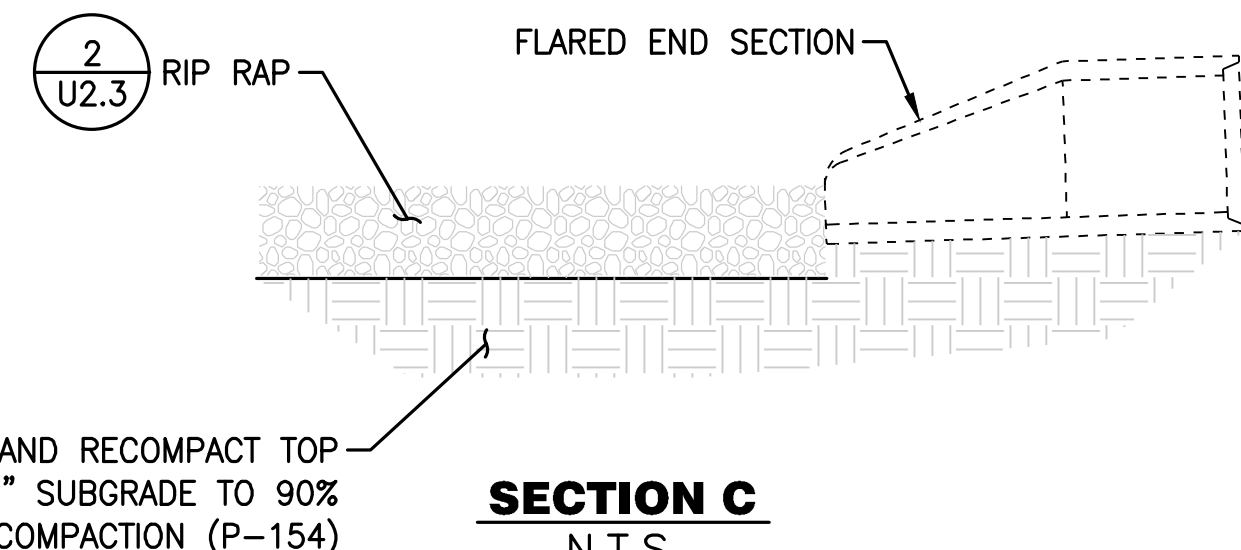
PLAN

N.T.S.

RIP RAP SHALL BE PLACED AROUND THE PERIMETER OF THE PROTRUDING PIPE (16" MIN HEIGHT & 32" MIN DEPTH)



SECTION B
N.T.S.



SECTION C
N.T.S.

FLARED END SECTION W/ RIP RAP APRON

NOTES

1. RIP RAP SHALL BE PLACED SUCH THAT THE TOP OF ROCK IS FLUSH WITH THE INVERT ELEVATION OF THE PIPE.
2. TRANSITION END OF RIP RAP APRON TO DOWN STREAM CHANNEL. APRON MAY BE SKEWED AND DIMENSIONS ADJUSTED TO MATCH AND LINE UP WITH DOWN STREAM CHANNEL.

2 U2.4	RIP RAP APRON N.T.S.
-------------------------	--------------------------------

RISE – R (INCHES)	SPAN – S (INCHES)	ROUND EQUIVALENT D – (INCHES)
14	23	18
19	30	24
24	38	30
29	45	36

FOR BIDDING PURPOSES ONLY

[illegible]

DATE: DECEMBER 11, 2019

SCALE: N/A

DRAWN BY: DAB

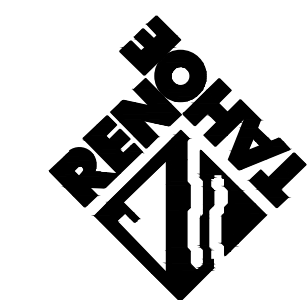
DESIGNED BY: MAK, BAM

CHECKED BY: MAC



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1361 Corporate Blvd
Reno, NV 89502

Reno-Tahoe International Airport



RUNWAY 16R-34L RECONSTRUCTION

UTILITY DETAILS

PROJECT NO.
8494.002

DRAWING
U2.4

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