



CONTRACT DRAWINGS
FOR THE CONSTRUCTION OF

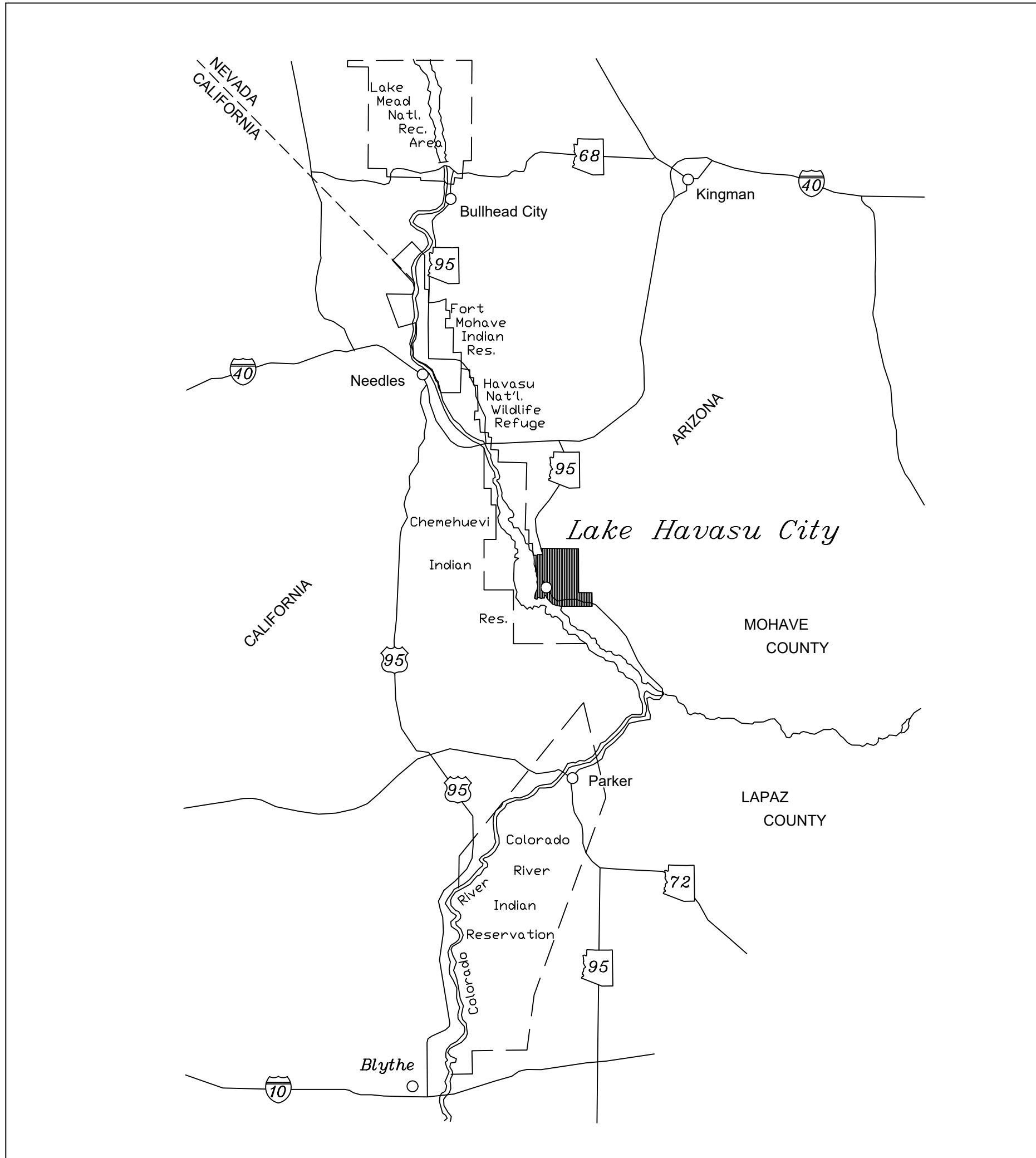


RUNWAY SAFETY AREA IMPROVEMENTS PROJECT

LAKE HAVASU CITY MUNICIPAL AIRPORT
LAKE HAVASU CITY, ARIZONA

LHC PROJECT No. B26-PW-104012-500734
ADOT GRANT NO: E4S3D01C
C&S PROJECT: K33004005

SEPTEMBER 2025

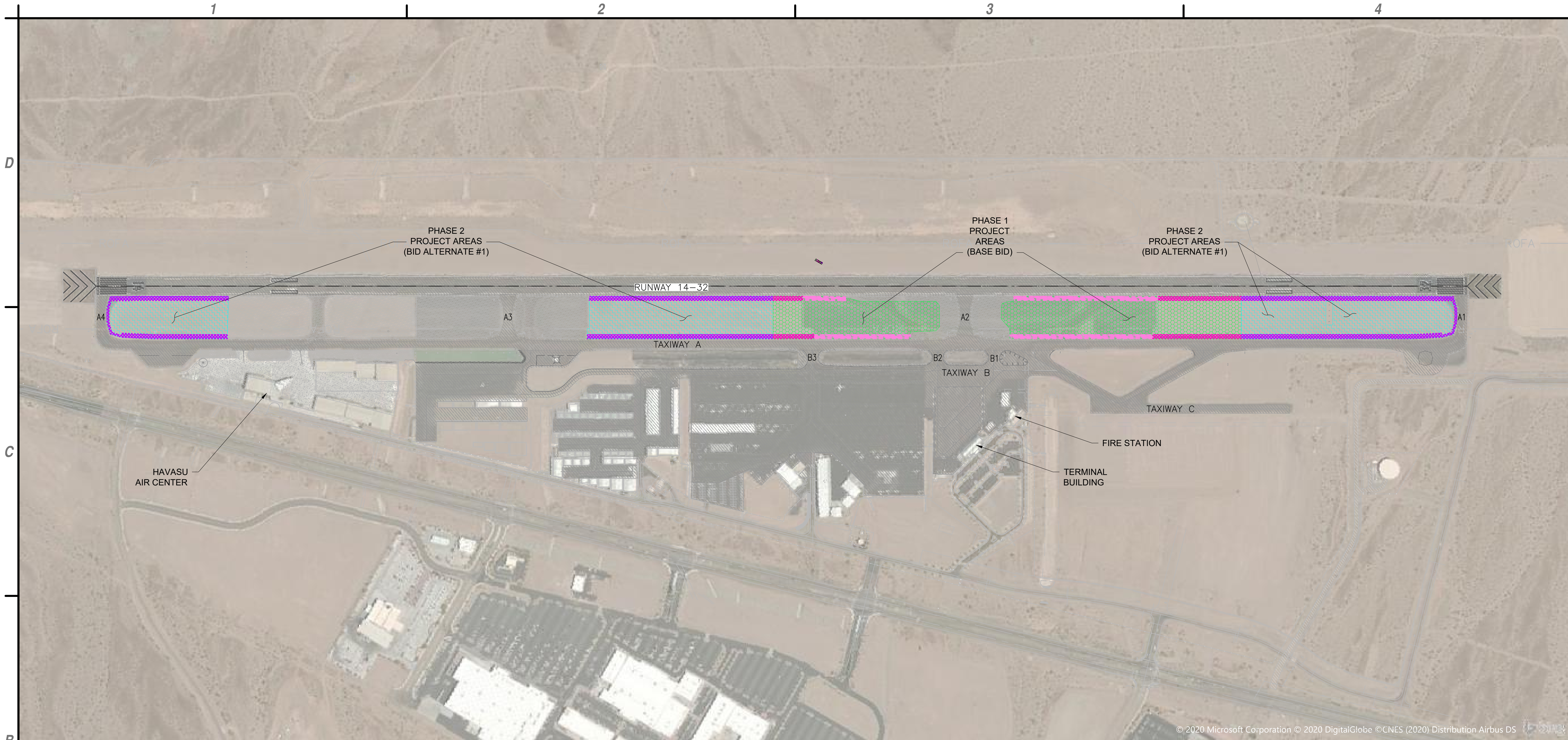


LOCATION MAP



D	1			2		
C						
B						
A						
C1						
C3						
A1						

1			2			3			4		



B1 GENERAL PLAN
SCALE: 1:300'



A		EXISTING CRUSHED AGGREGATE EROSION PROTECTION
		EXISTING AC PAVEMENT
		EXISTING CONCRETE PAVEMENT
		EXISTING SOIL CEMENT

A1 LEGEND
NOT TO SCALE

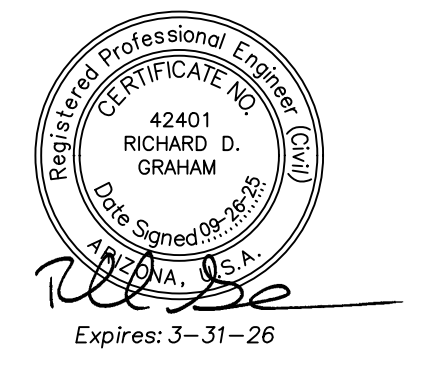
BASE BID	
	PHASE 1 PROPOSED CRUSHED AGGREGATE EROSION PROTECTION (BASE BID)
	PHASE 1 PROPOSED EXCAVATE EXISTING SOIL CEMENT (BASE BID)
	PHASE 1 PROPOSED EXCAVATE EXISTING SOIL (BASE BID)

BID ALTERNATE #1	
	PHASE 2 PROPOSED CRUSHED AGGREGATE EROSION PROTECTION (BID ALTERNATE #1)
	PHASE 2 PROPOSED EXCAVATE EXISTING SOIL (BID ALTERNATE #1)

A3 LEGEND
NOT TO SCALE



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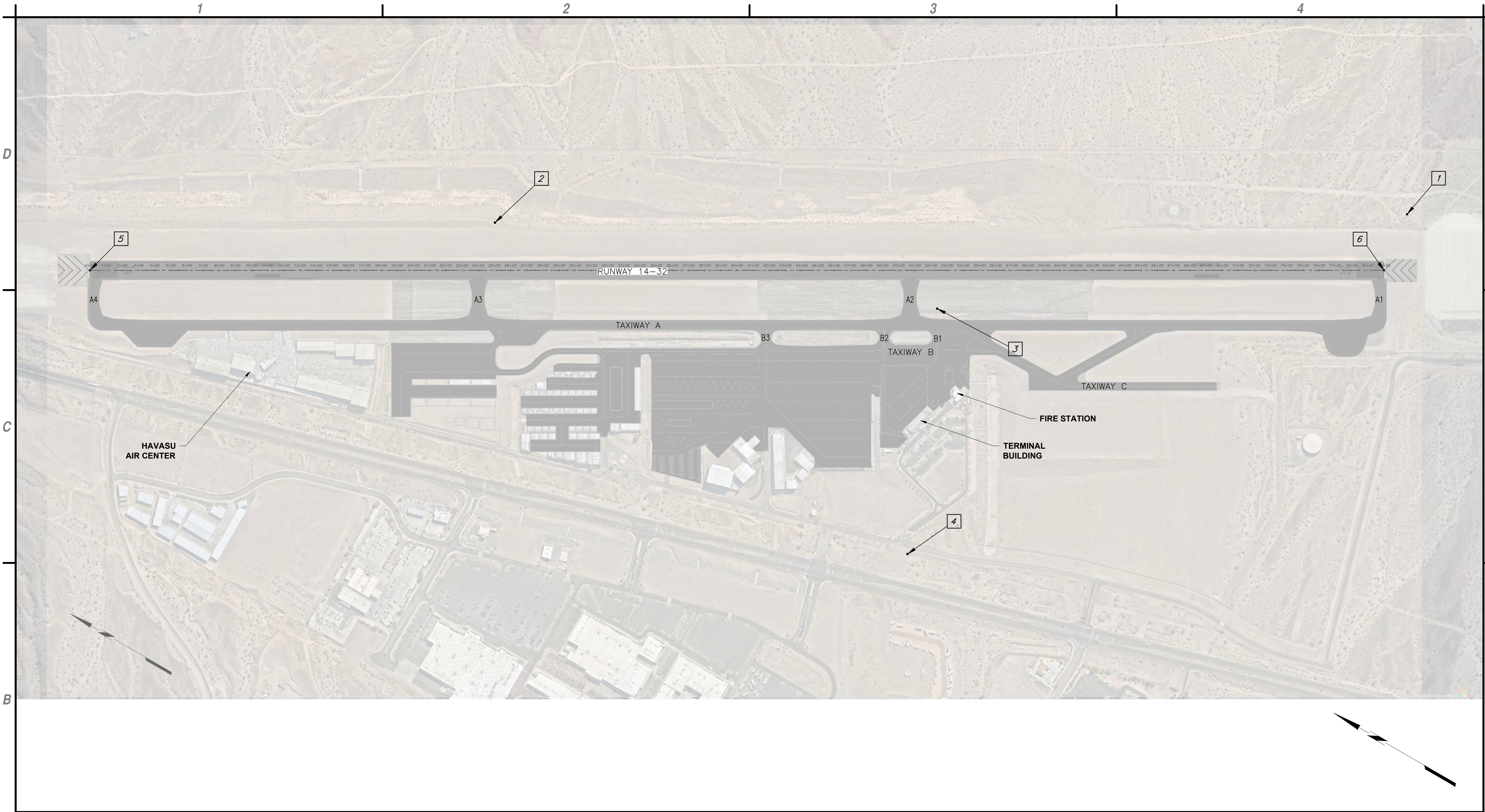


**RUNWAY SAFETY AREA
IMPROVEMENTS PROJECT**
LAKE HAVASU CITY MUNICIPAL AIRPORT
LAKE HAVASU CITY, AIRIZONA

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K33004005		
DATE: SEPTEMBER 2025		
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DESIGNED BY: RB		
CHECKED BY: LM		

**GENERAL
PLAN**

Oct 06, 2025 - 4:08pm
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B1 GENERAL PLAN
SCALE: 1:300'

BASIS OF BEARINGS AND COORDINATES

LINEAR UNIT: INTERNATIONAL FEET
GEODETIC DATUM: NORTH AMERICAN DATUM OF 1983 (NA2011)
VERTICAL DATUM: NAVD 1988 (SEE BELOW)
SYSTEM: U.S. STATE PLANE OF 1983 (AT GRID)
ZONE: ARIZONA WEST ZONE (0203)
PROJECTION
TRANSVERSE MERCATOR
LATITUDE OF GRID ORIGIN: 31°00'00" N
LONGITUDE OF CENTRAL MERIDIAN: 113°45'00" W
NORTHING AT GRID ORIGIN: 0.000 FT
EASTING AT CENTRAL MERIDIAN: 700,000.000 FT
SCALE FACTOR ON CENTRAL MERIDIAN: 0.999933333

ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GRID VALUES BASED ON THE PRECEDING PROJECTION DEFINITION.
THE BASIS OF BEARINGS IS TRUE GEODETIC NORTH AS DETERMINED FROM THE GPS SOLUTION. NOTE THAT THE GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE.
ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE SITE FROM NGS POINT "HAVASU". THE FIELD SURVEY WAS CONDUCTED USING GPS REFERENCED TO THE FOLLOWING COORDINATES.
POINT "HAVASU" (EU1257)
LATITUDE: N34°33'58.27478"
LONGITUDE: W114°21'41.53094"
ELLIPSOID HEIGHT: 596.027 FT
POINT "HII D" PACS (AC6812)
LATITUDE: N34°34'04.29375"
LONGITUDE: W114°21'24.75967"
ELLIPSOID HEIGHT: 653.547 FT
POINT "HII B" SACS (AC6814)
LATITUDE: N34°34'30.29151"
LONGITUDE: W114°21'35.79711"
ELLIPSOID HEIGHT: 659.905 FT

HORIZONTAL AND VERTICAL CONTROL BASED ON SURVEY PROVIDED BY:

Shephard Wisnitzer, Inc.
75 Kallof Place, Sedona, AZ 86336
(928) 282-1061
www.swiaz.com

ALL COORDINATES LISTED ARE NAD83 (NA2011) U.S. STATE PLANE OF 1983, ARIZONA WEST ZONE (AT GRID), INTERNATIONAL FEET, GEOID MODEL 12A
ELEVATIONS SHOWN HEREON ARE ON NAVD 88 DATUM.

SURVEY CONTROL POINTS

PT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1296396.18	519257.86	799.34	GVT HII A AC6813
2	1301253.55	516392.41	760.56	GVT HII B AC6814
3	1298619.79	517299.55	754.26	GVT HII D AC6812
4	1298019.78	515893.35	696.88	GVT HAVASU EU1257
5	1303273.42	514884.81	748.92	BC AT RW 14 END
6	1296346.67	518886.50	782.78	BC AT RW 32 END

NOTE: CONTRACTOR SHALL PROTECT ALL CONTROL POINTS. IF DISTURBED, MINIMUM CHARGE FOR REPLACEMENT SHALL BE \$10,000 PER POINT LOCATION.

A1 BASIS OF BEARINGS AND COORDINATES

NOT TO SCALE

A3 SURVEY SUPPORTING INFORMATION

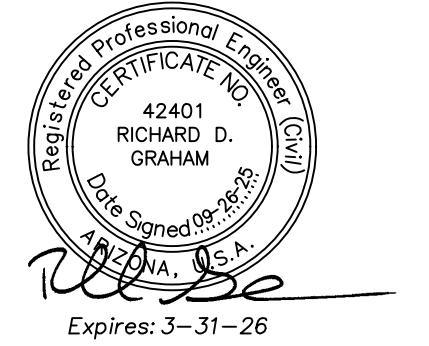
NOT TO SCALE

A4 CONTROL POINTS

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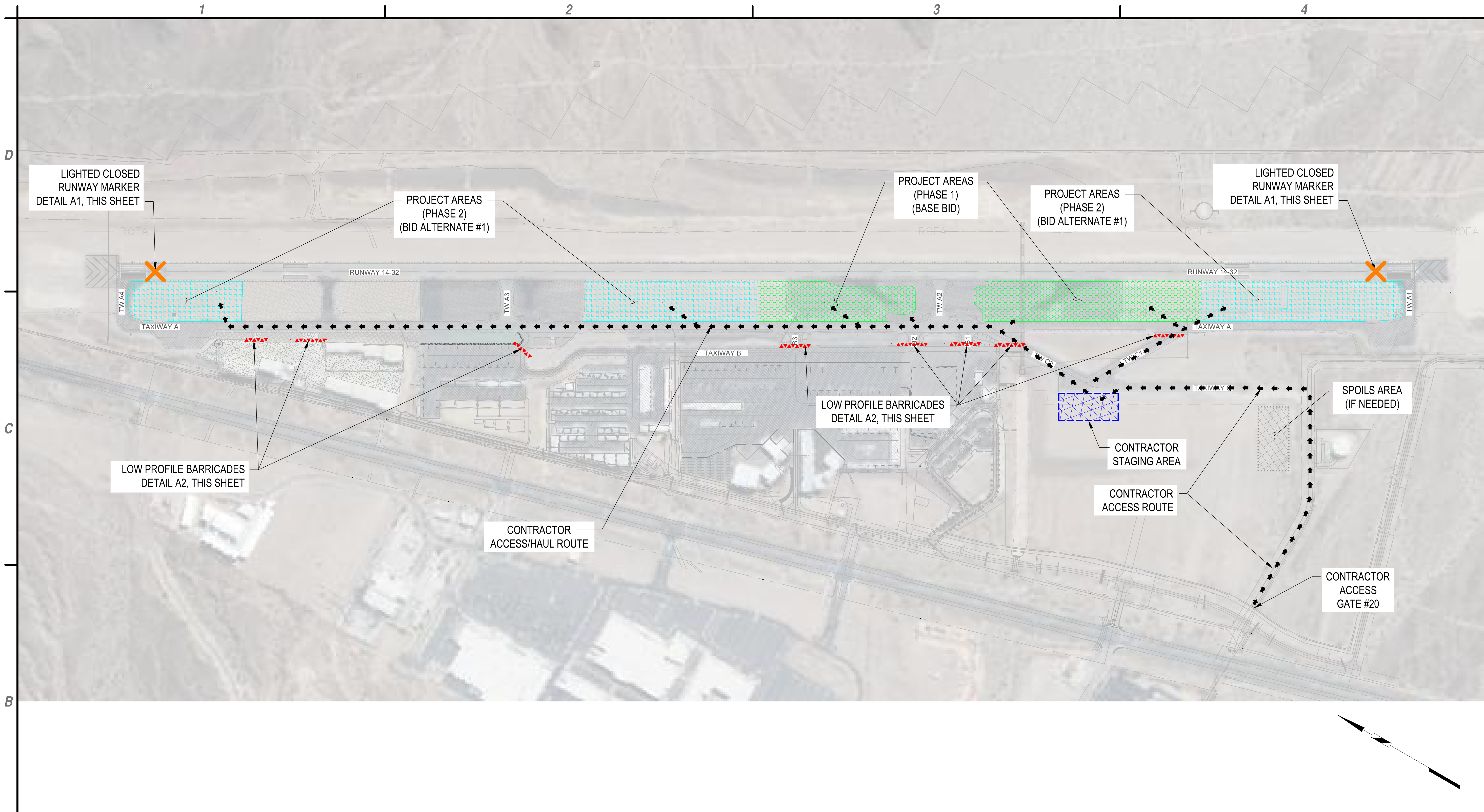


**RUNWAY SAFETY AREA
IMPROVEMENTS PROJECT**
LAKE HAVASU CITY MUNICIPAL AIRPORT
LAKE HAVASU CITY, AIRIZONA

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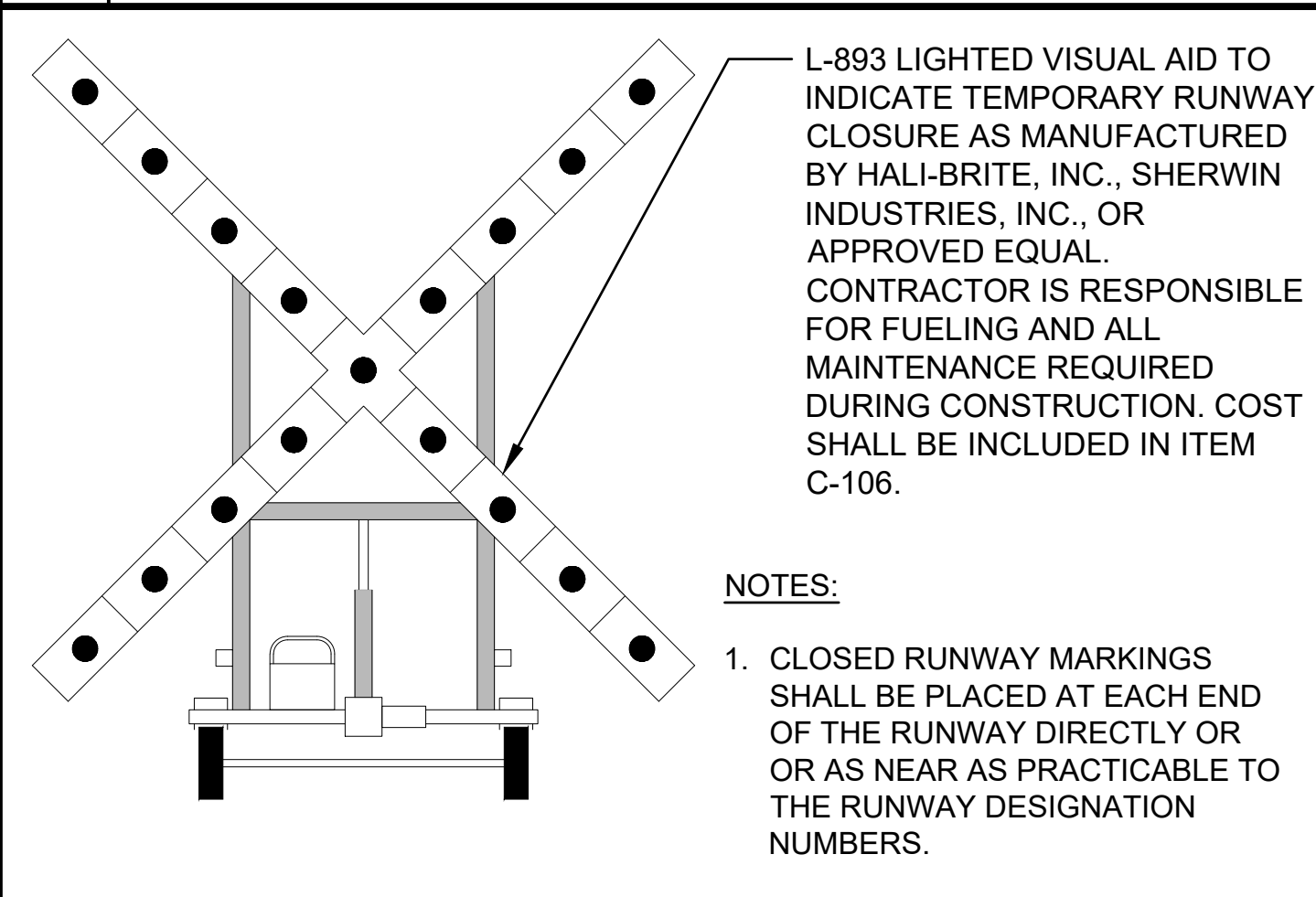
**SURVEY
CONTROL
PLAN**

V401



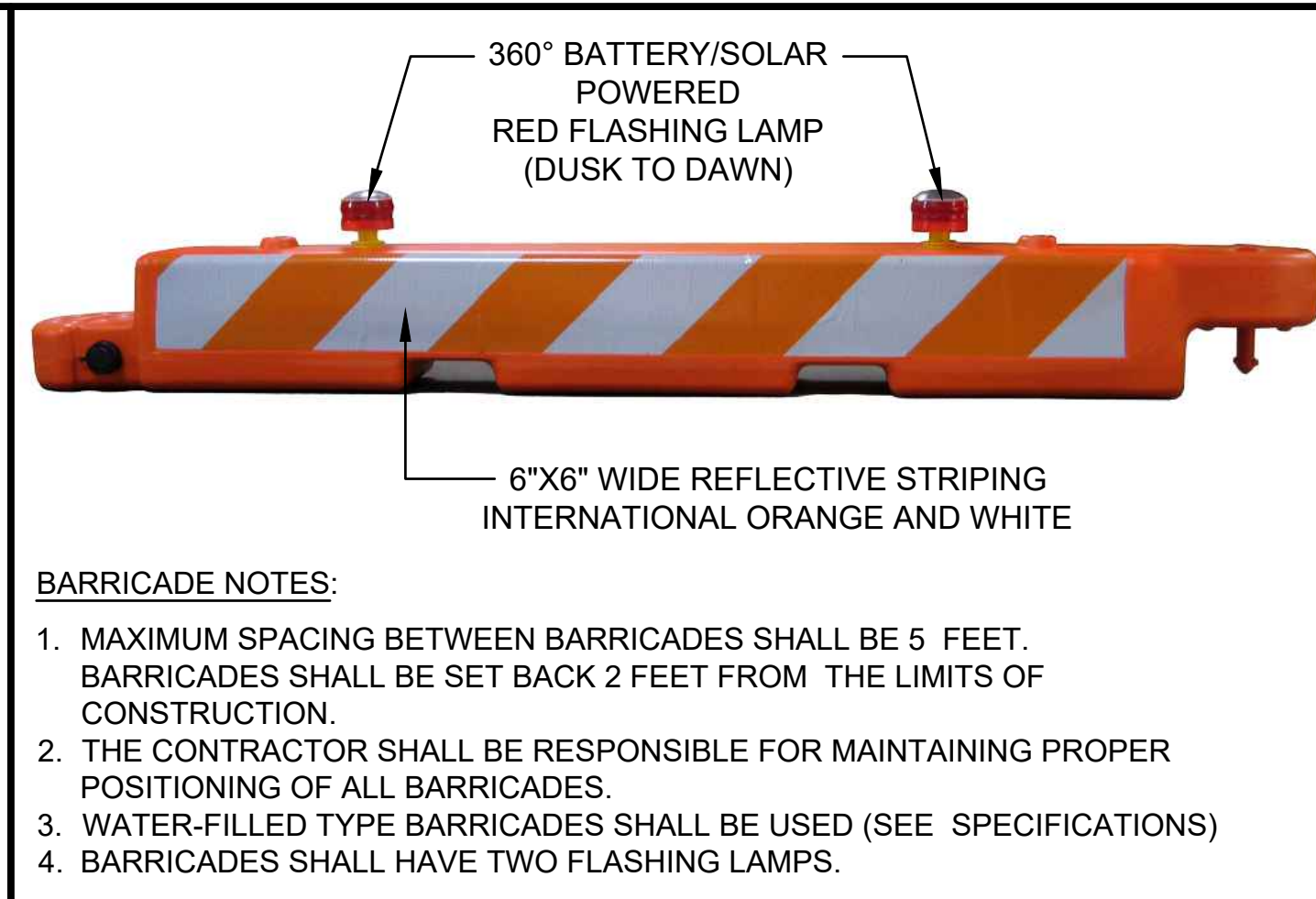
B1 CONSTRUCTION SAFETY AND PHASING PLAN

SCALE: 1"=300'



A1 LIGHTED CLOSED RUNWAY MARKER DETAIL

NOT TO SCALE



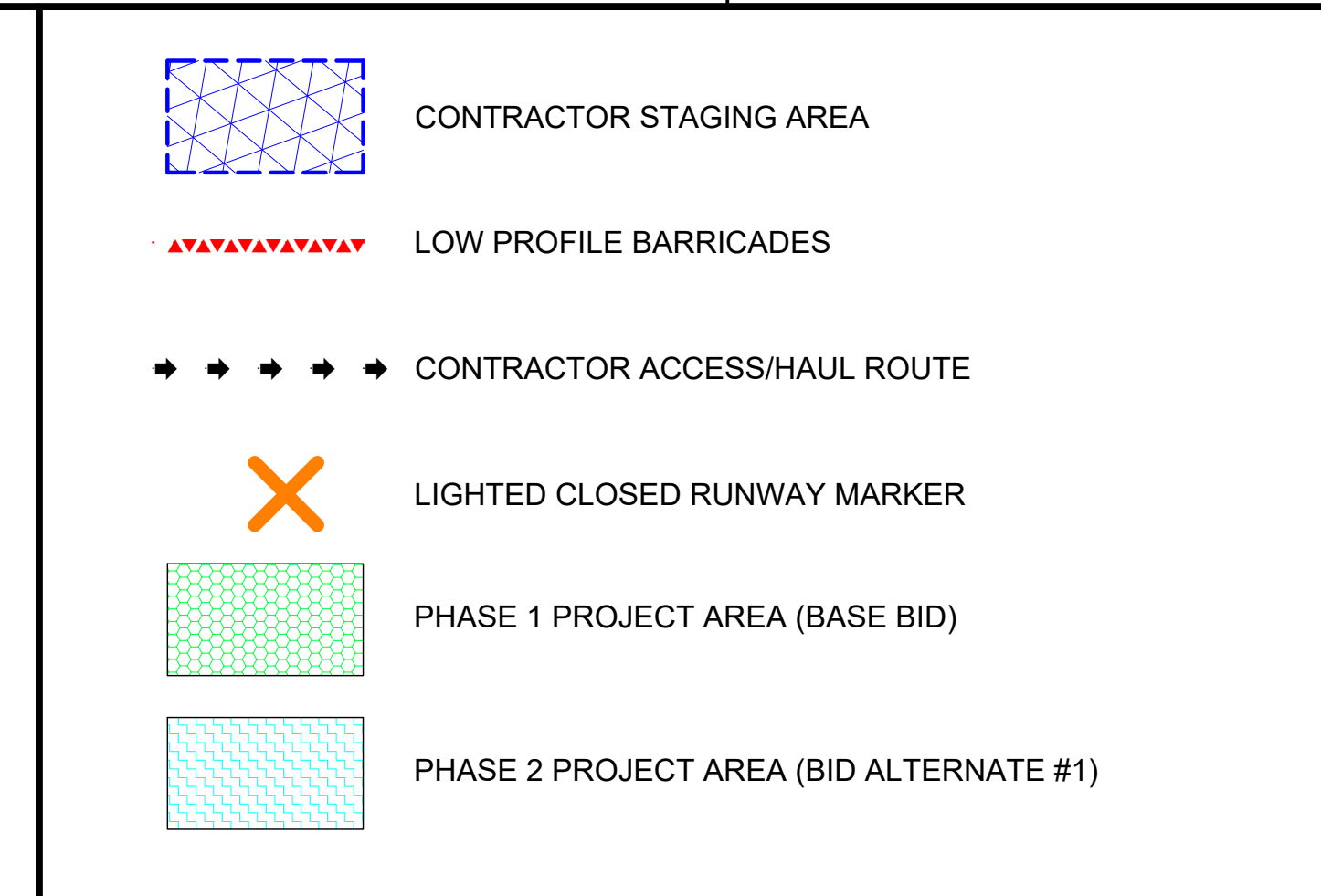
A2 LOW PROFILE SAFETY BARRICADE DETAIL

NOT TO SCALE

- A3 GENERAL NOTES**
- WORK SHALL BE PERFORMED DURING NIGHTTIME CLOSURES OF RUNWAY 14-32 AND TAXIWAY A, BETWEEN THE HOURS OF 9 PM AND 6 AM. ALL WORK SHALL BE COMPLETED IN 30 CALENDAR DAYS FOR PHASE 1. ALL WORK SHALL BE COMPLETED IN 45 CALENDAR DAYS FOR PHASE 2 IF BID ALTERNATE #1 IS AWARDED.
 - IF BID ALTERNATE #1 IS AWARDED, PHASE 1 AND PHASE 2 CAN BE COMPLETED CONCURRENTLY.
 - THE CONTRACTOR SHALL NOT LEAVE GATE UNATTENDED OR UNLOCKED AT ANY TIME.

A3 GENERAL NOTES

NOT TO SCALE

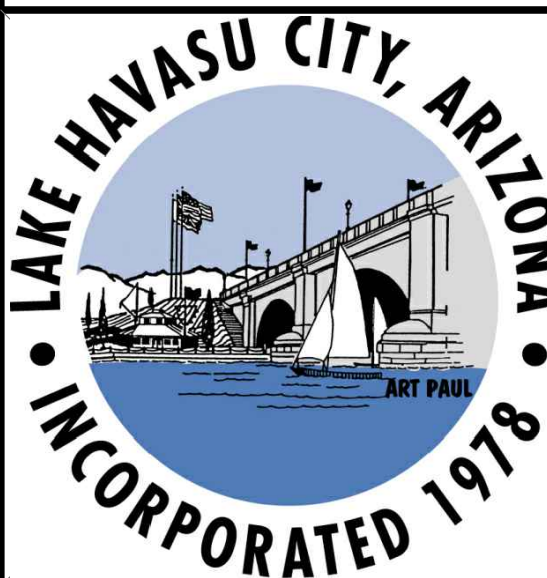


A4 LEGEND

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**LAKE HAVASU CITY MUNICIPAL AIRPORT
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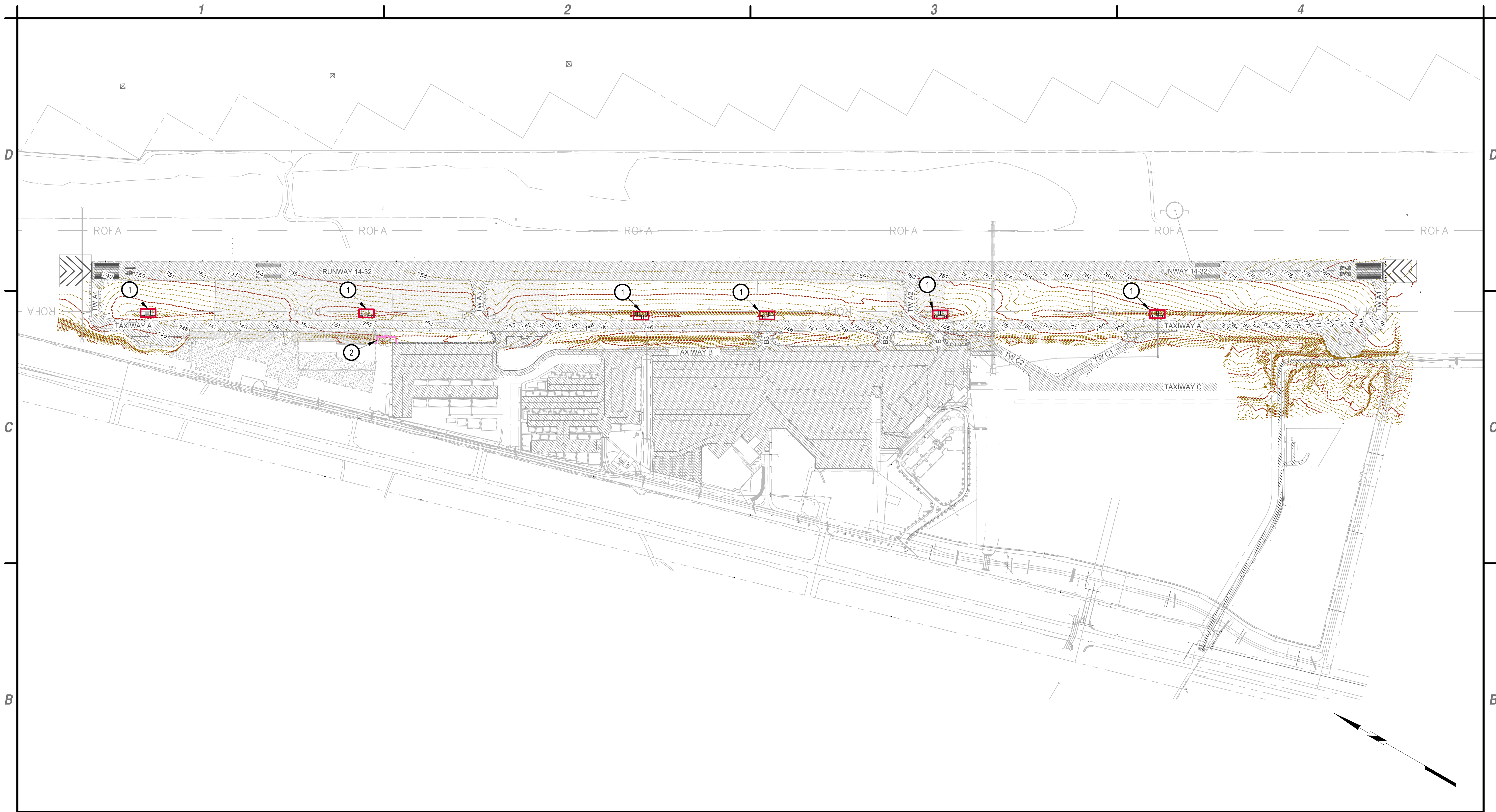
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**CONSTRUCTION
SAFETY
AND
PHASING PLAN**

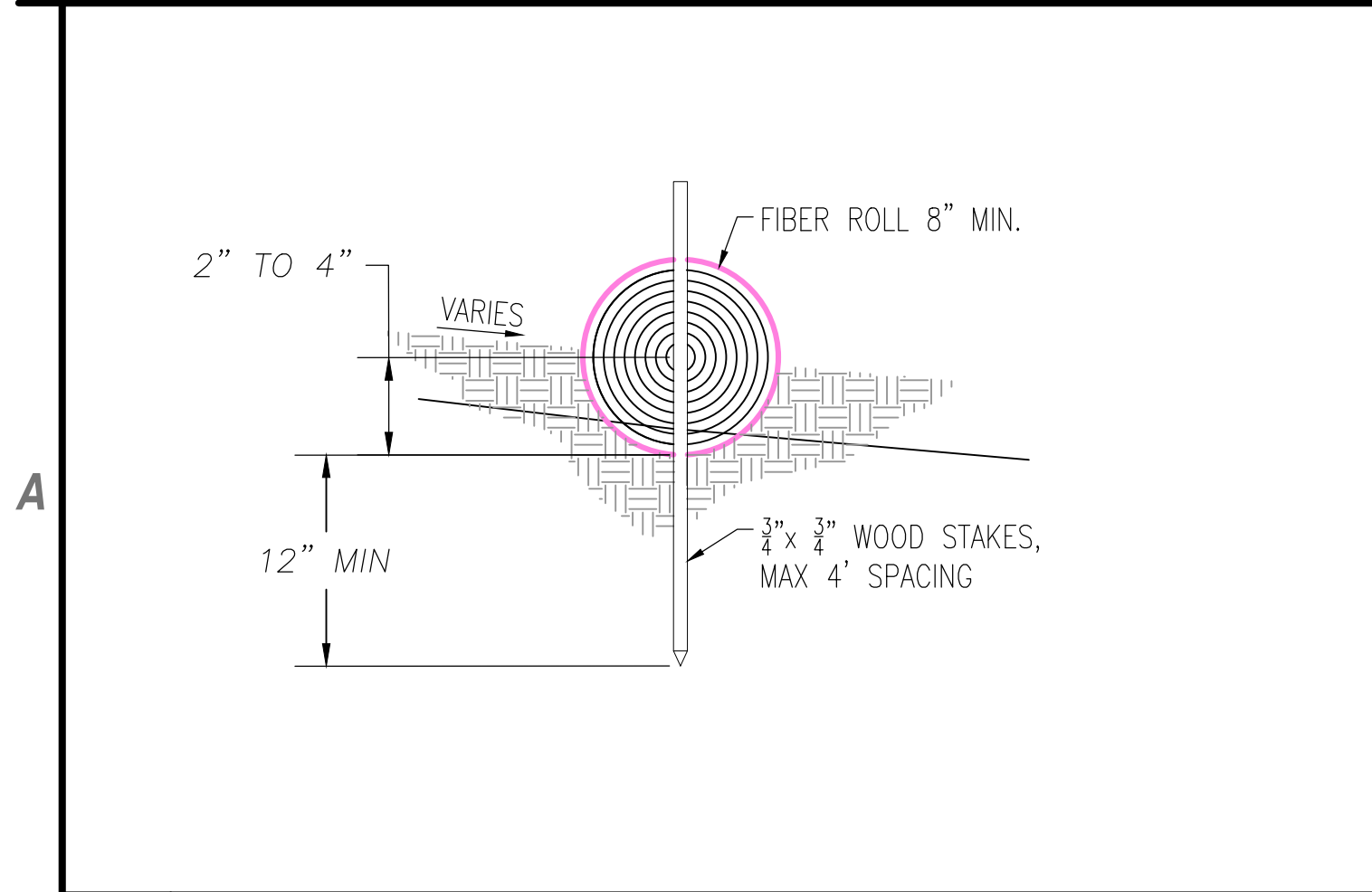
G101

5 of 18

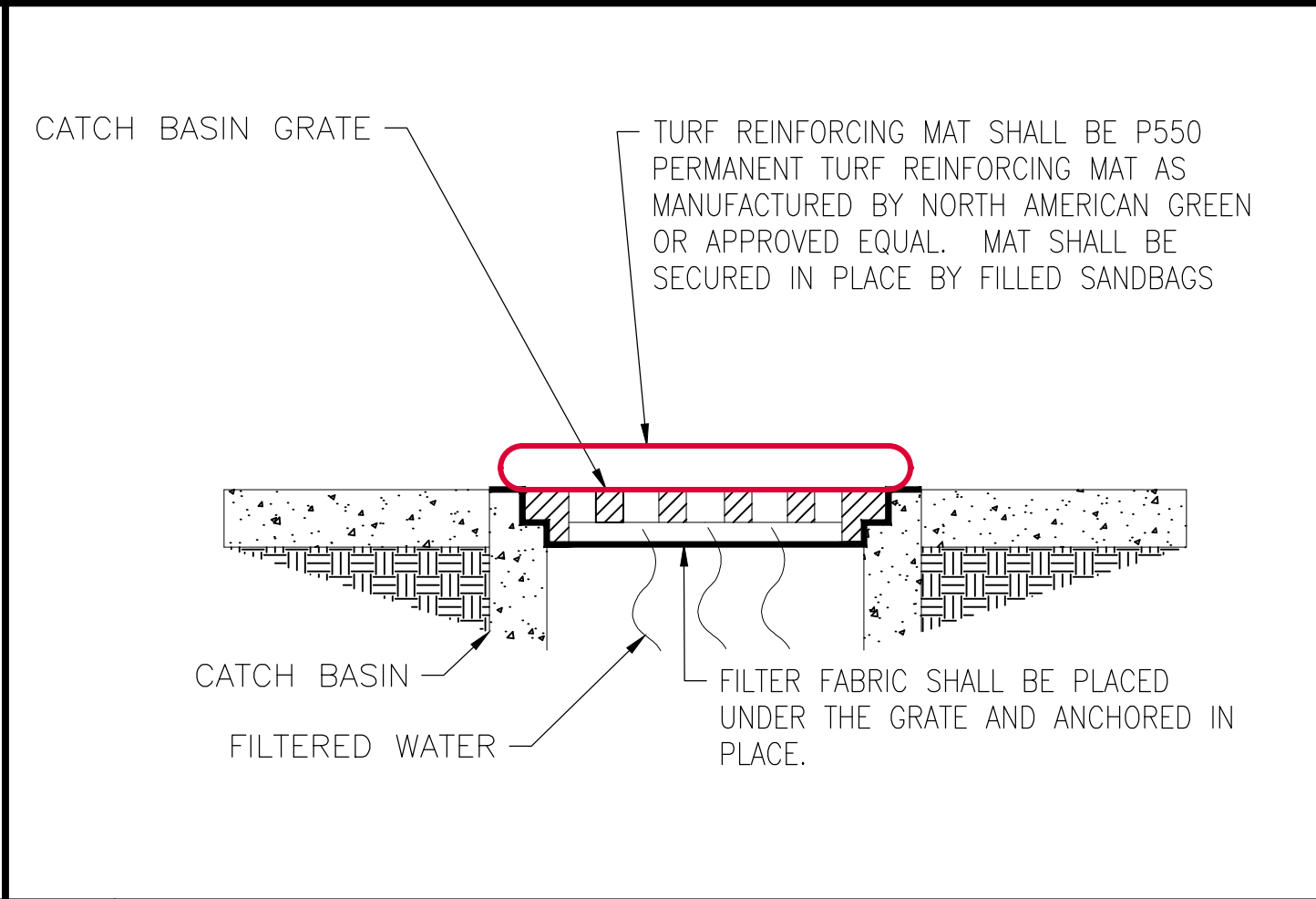
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B1 STORMWATER POLLUTION PREVENTION PLAN
SCALE: 1:300'



A1 TYPE 1 FIBER ROLL DETAIL
NOT TO SCALE



A2 STORM DRAIN INLET PROTECTION DETAIL
NOT TO SCALE

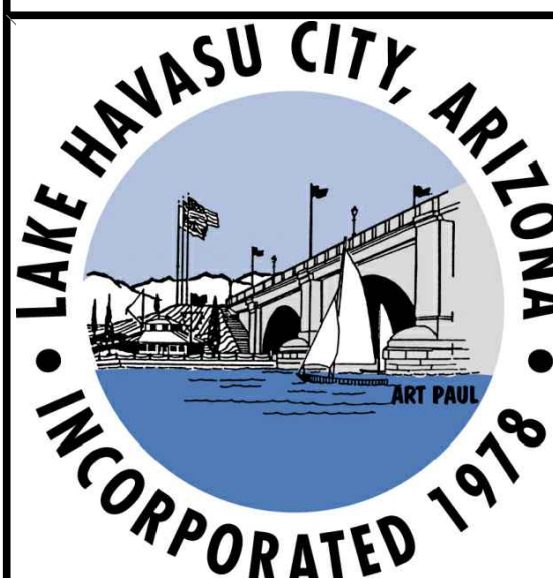


A3 LEGEND
NOT TO SCALE

- A4** CONSTRUCTION NOTES
- 1 FURNISH AND INSTALL INLET PROTECTION. SEE STORM DRAIN INLET PROTECTION DETAIL A2, THIS SHEET.
- 2 FURNISH AND INSTALL FIBER ROLL. SEE FIBER ROLL DETAIL A1, THIS SHEET.



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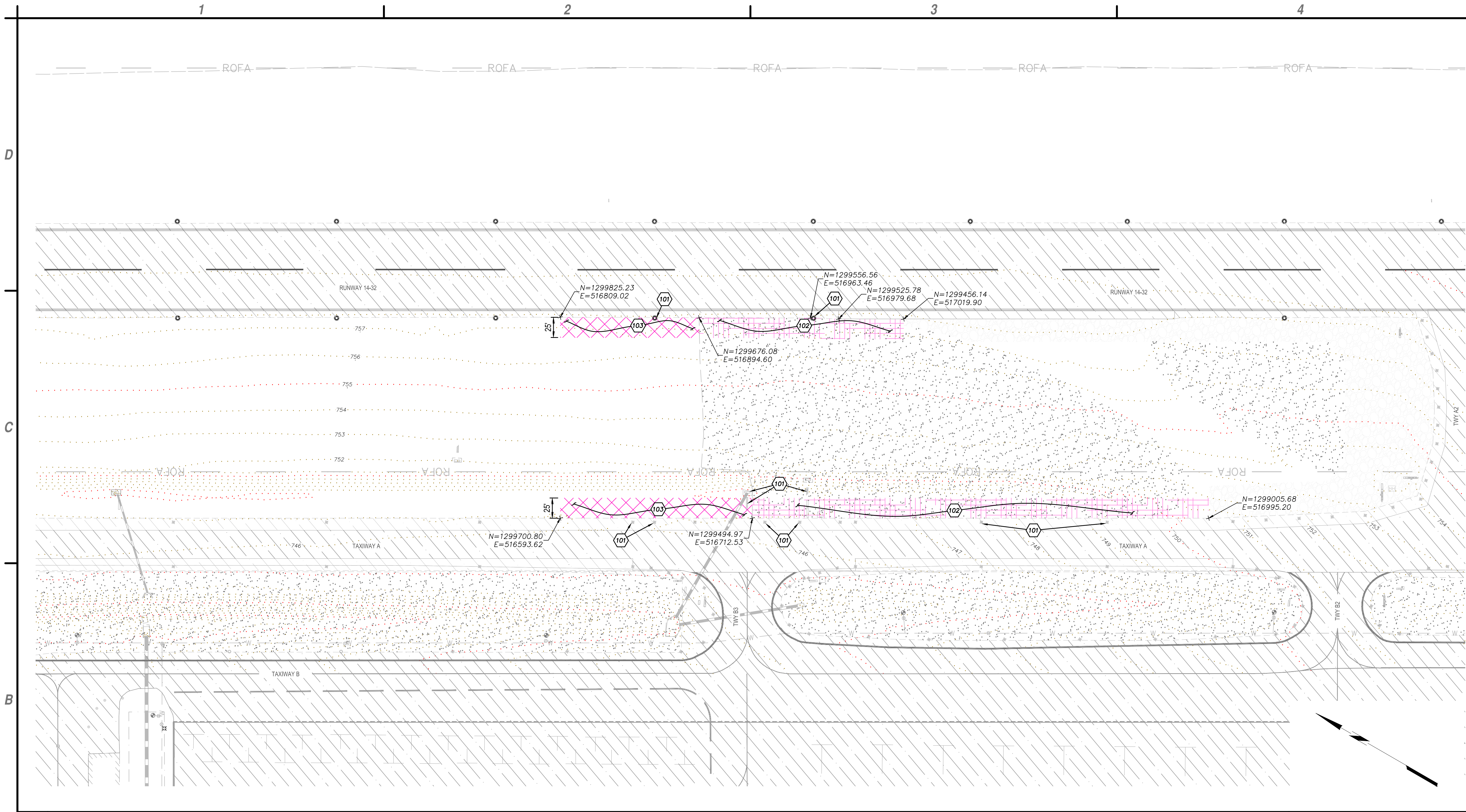
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**STORMWATER
POLLUTION
PREVENTION
PLAN**

G102

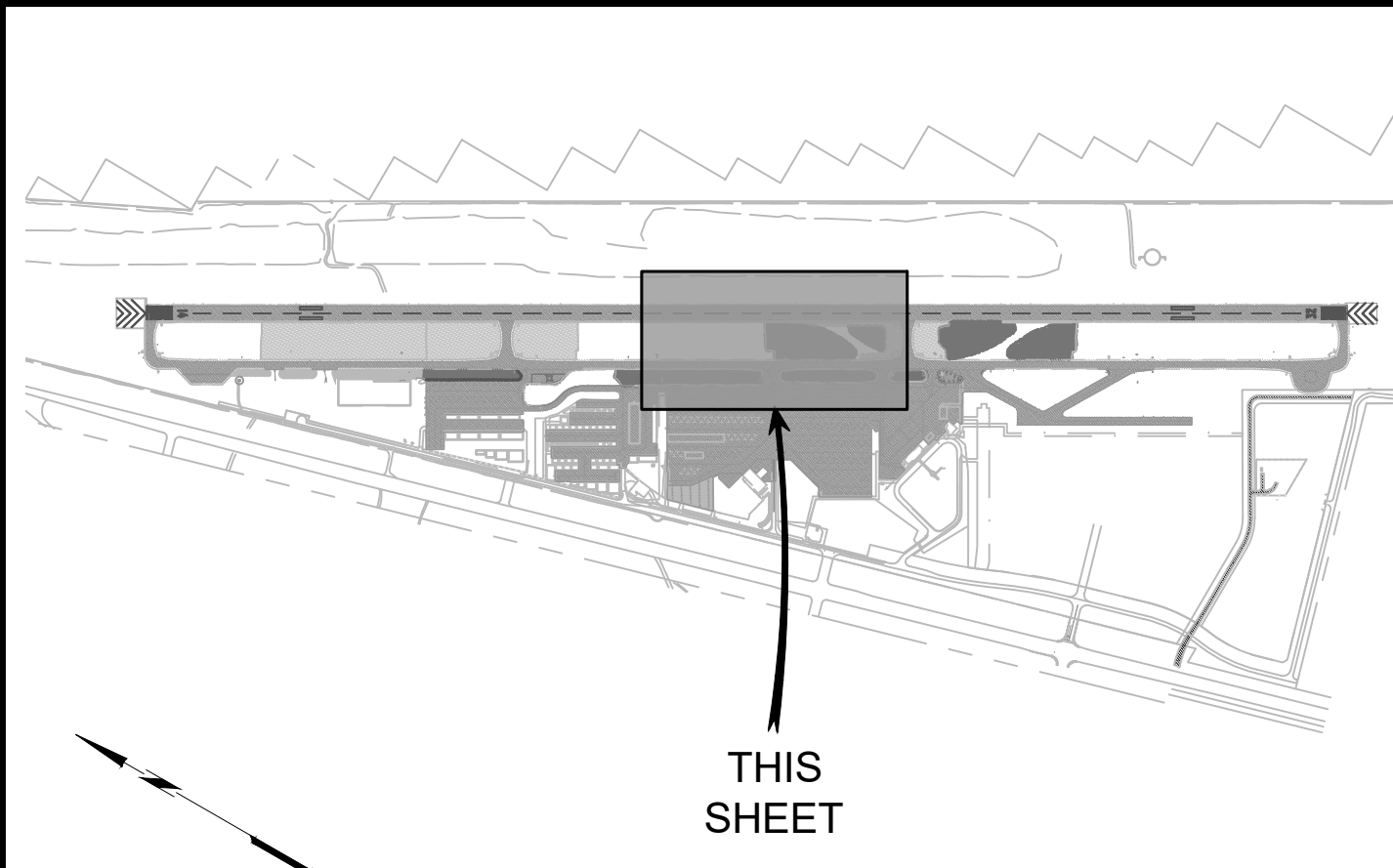
6 of 18



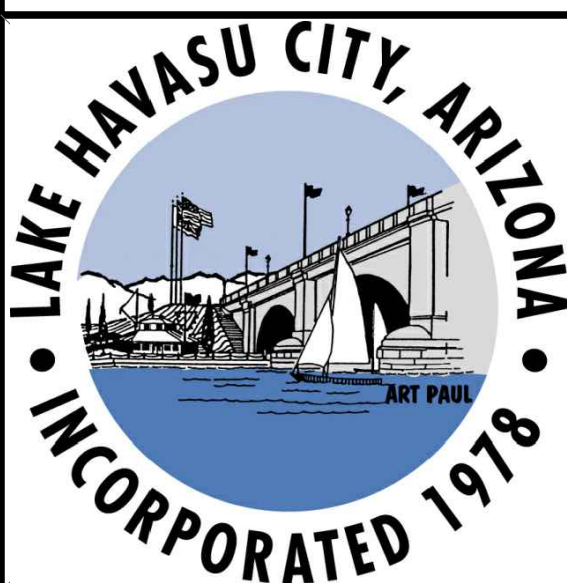
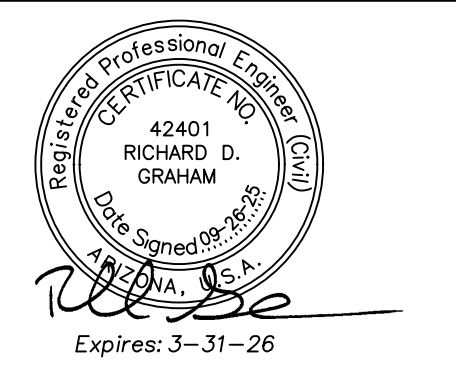
B1 DEMOLITION PLAN
SCALE: 1"=60'

- | | |
|--|---|
| | EXCAVATE EXISTING SOIL CEMENT |
| | EXCAVATE EXISTING SOIL |
| | EXISTING CRUSHED AGGREGATE EROSION PROTECTION |
| | EXISTING AC PAVEMENT |
| | EXISTING CONCRETE PAVEMENT |
| | EXISTING SOIL CEMENT |

- | | |
|-----|--|
| 101 | PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE, (TYP.). |
| 102 | EXCAVATE EXISTING SOIL CEMENT 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501. |
| 103 | EXCAVATE EXISTING SOIL TRANSITION FROM 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501. |



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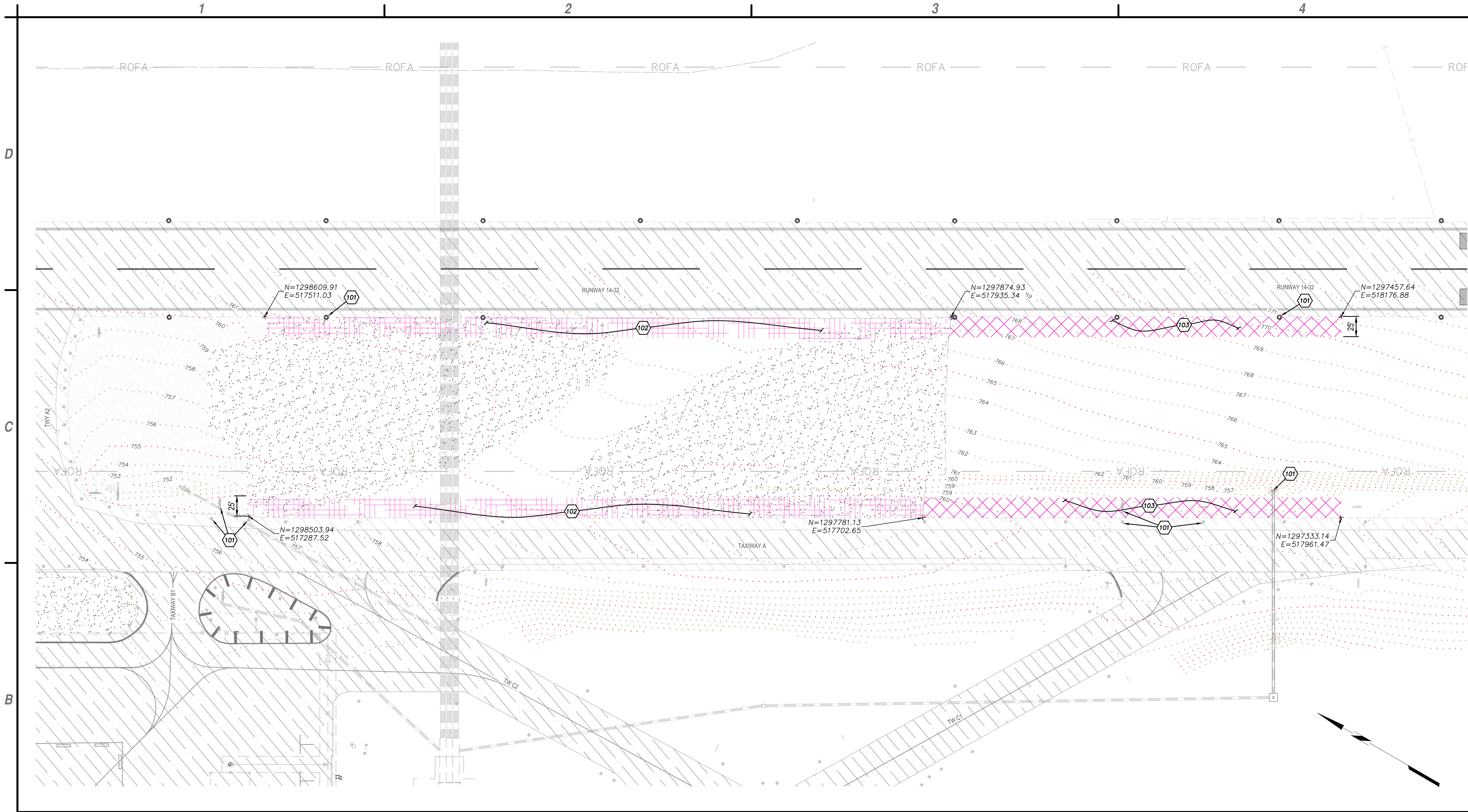


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**DEMOLITION
PLAN
(PHASE 1)
(BASE BID)**

CD101
7 of 18



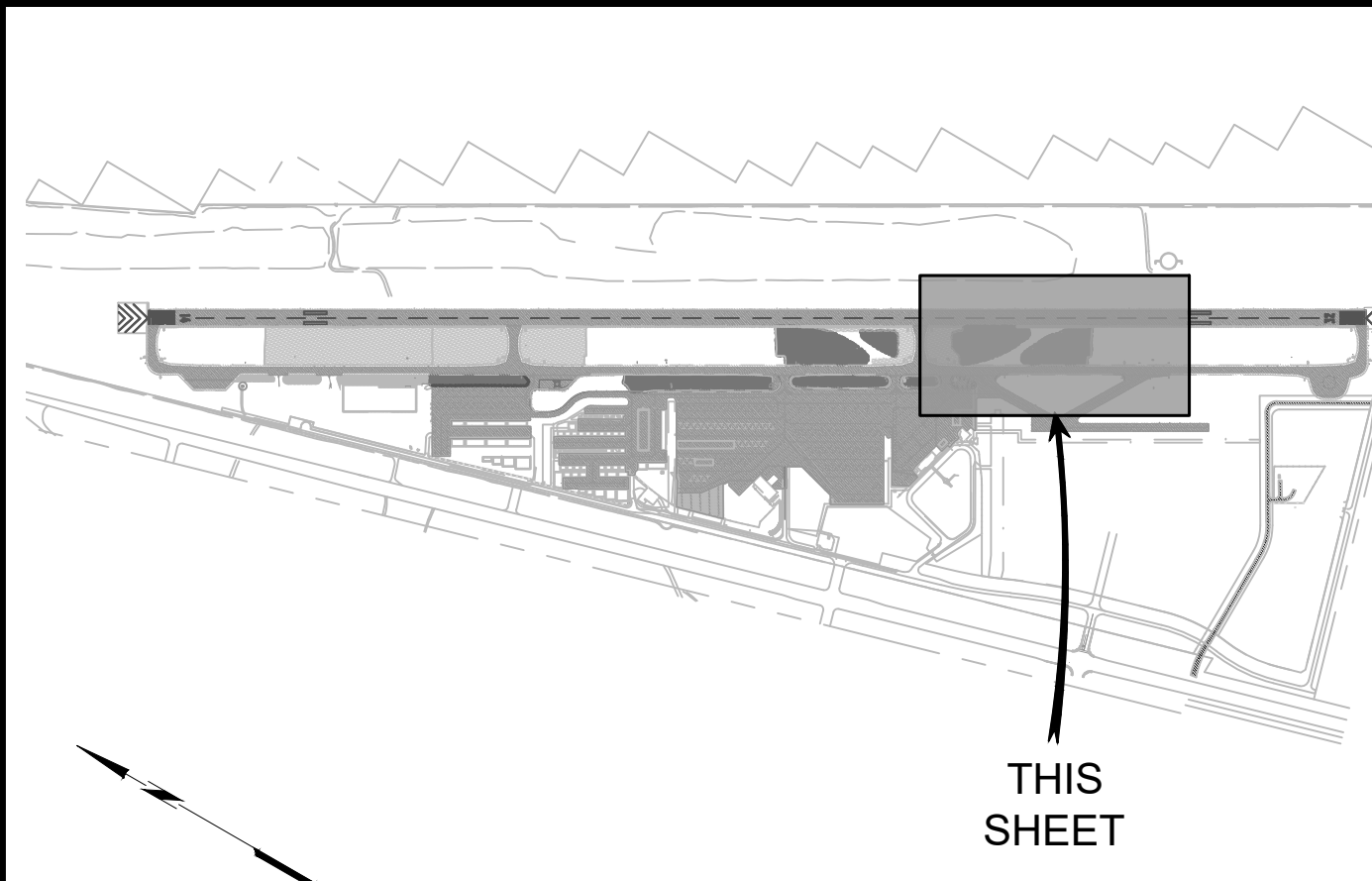
B1 DEMOLITION PLAN
SCALE: 1"=60'

- | | |
|--|---|
| | EXCAVATE EXISTING SOIL CEMENT |
| | EXCAVATE EXISTING SOIL |
| | EXISTING CRUSHED AGGREGATE EROSION PROTECTION |
| | EXISTING AC PAVEMENT |
| | EXISTING CONCRETE PAVEMENT |
| | EXISTING SOIL CEMENT |

A1 LEGEND
NOT TO SCALE

- | | |
|--|--|
| | PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE, (TYP.) |
| | EXCAVATE EXISTING SOIL CEMENT 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501. |
| | EXCAVATE EXISTING SOIL TRANSITION FROM 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501. |

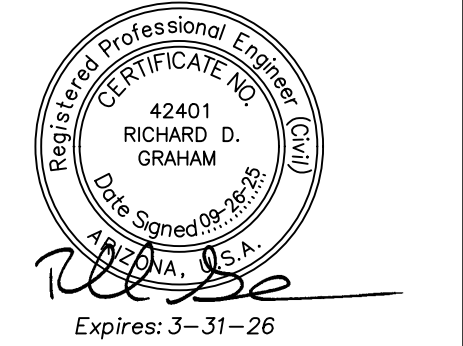
A3 CONSTRUCTION NOTES
NOT TO SCALE



A4 KEY MAP
NOT TO SCALE



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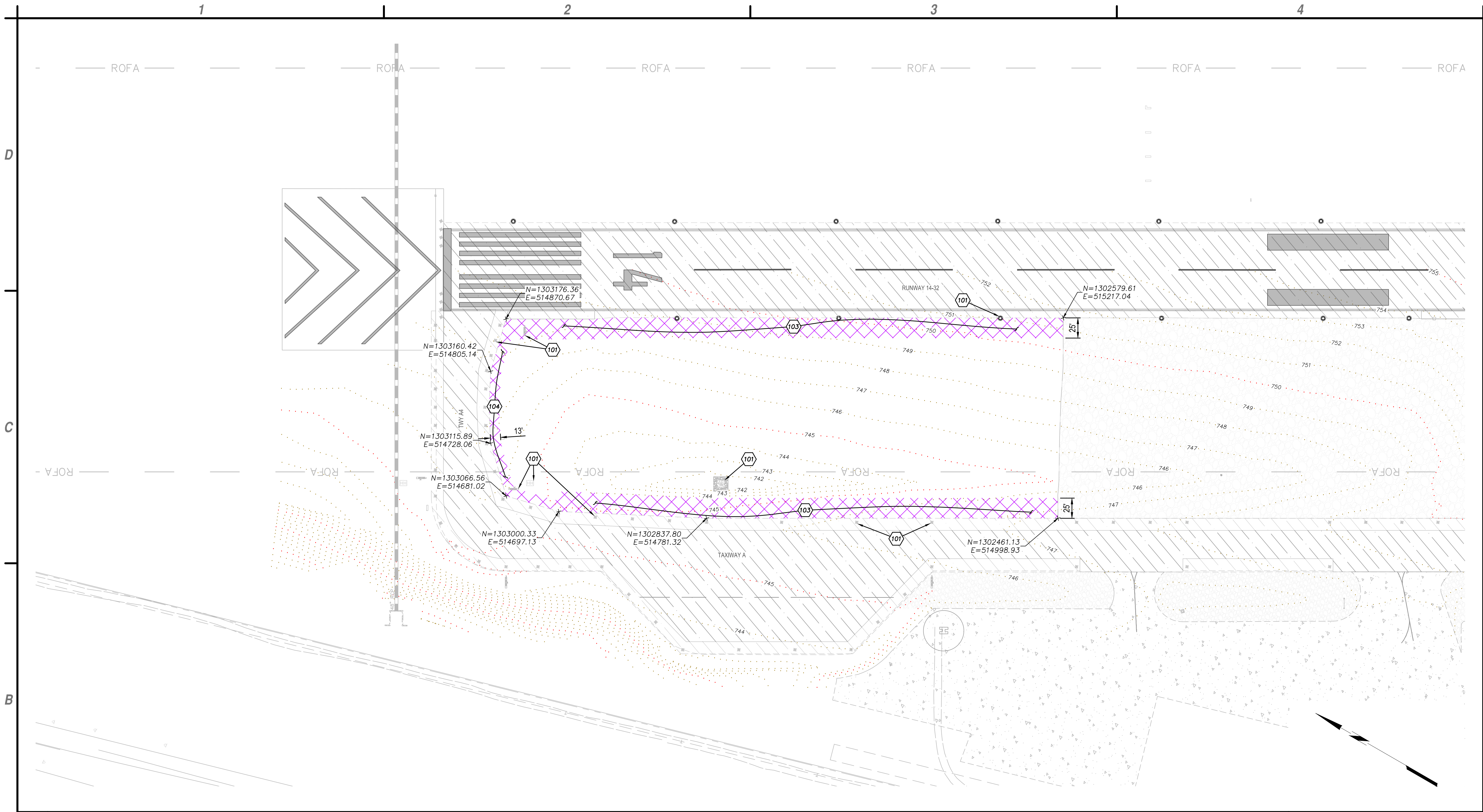


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**DEMOLITION
PLAN
(PHASE 1)
(BASE BID)**

CD102



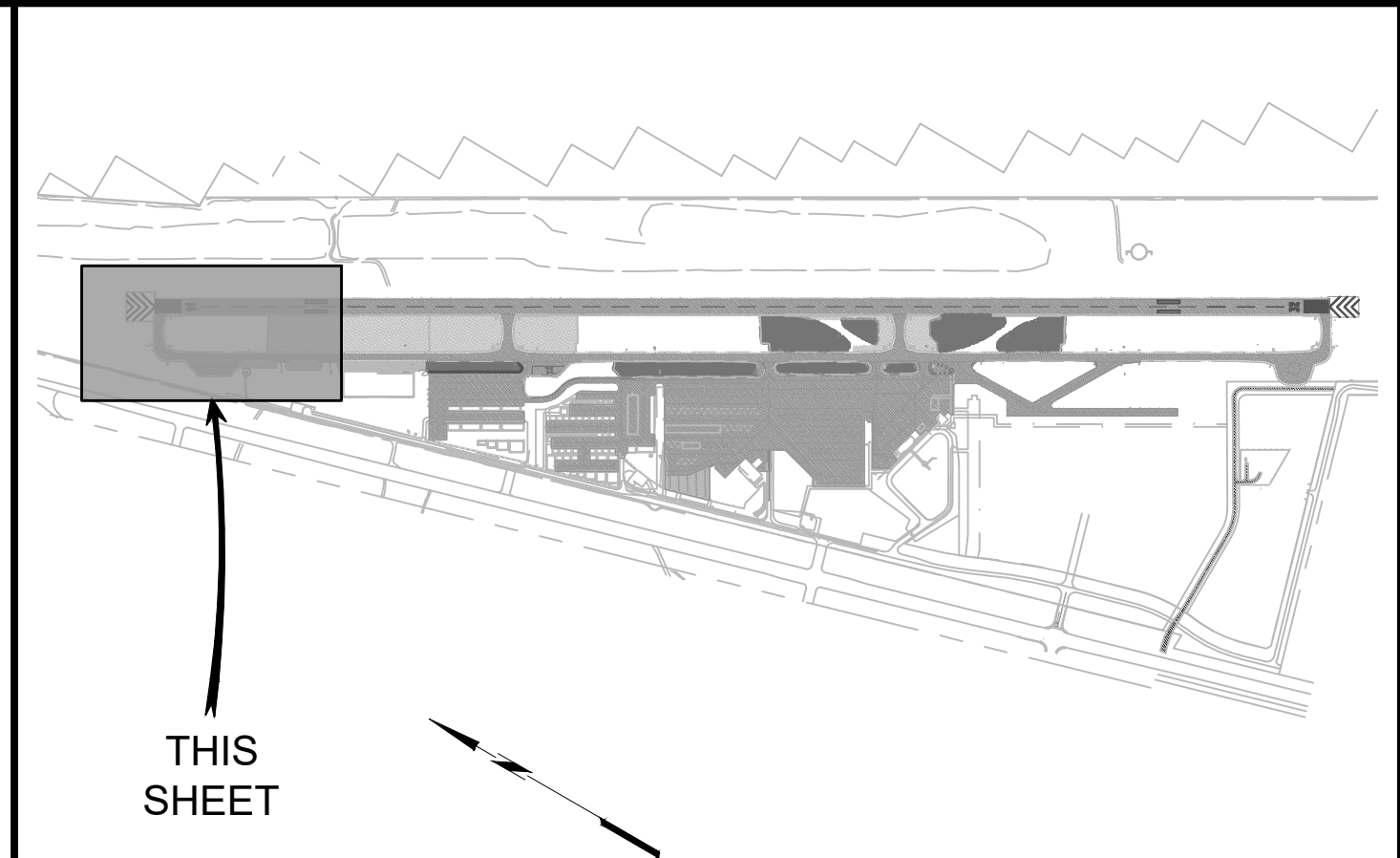
B1 DEMOLITION PLAN
SCALE: 1"=60'

- EXCAVATE EXISTING SOIL
- EXISTING CRUSHED AGGREGATE EROSION PROTECTION
- EXISTING AC PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING SOIL CEMENT

A1 LEGEND
NOT TO SCALE

- PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE, (TYP.).
- EXCAVATE EXISTING SOIL TRANSITION FROM 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501.
- EXCAVATE EXISTING SOIL AT CONNECTOR TAXIWAY, DISTANCE VARIES. SEE DETAIL C2, SHEET CG502.

A3 CONSTRUCTION NOTES
NOT TO SCALE



A4 KEY MAP
NOT TO SCALE



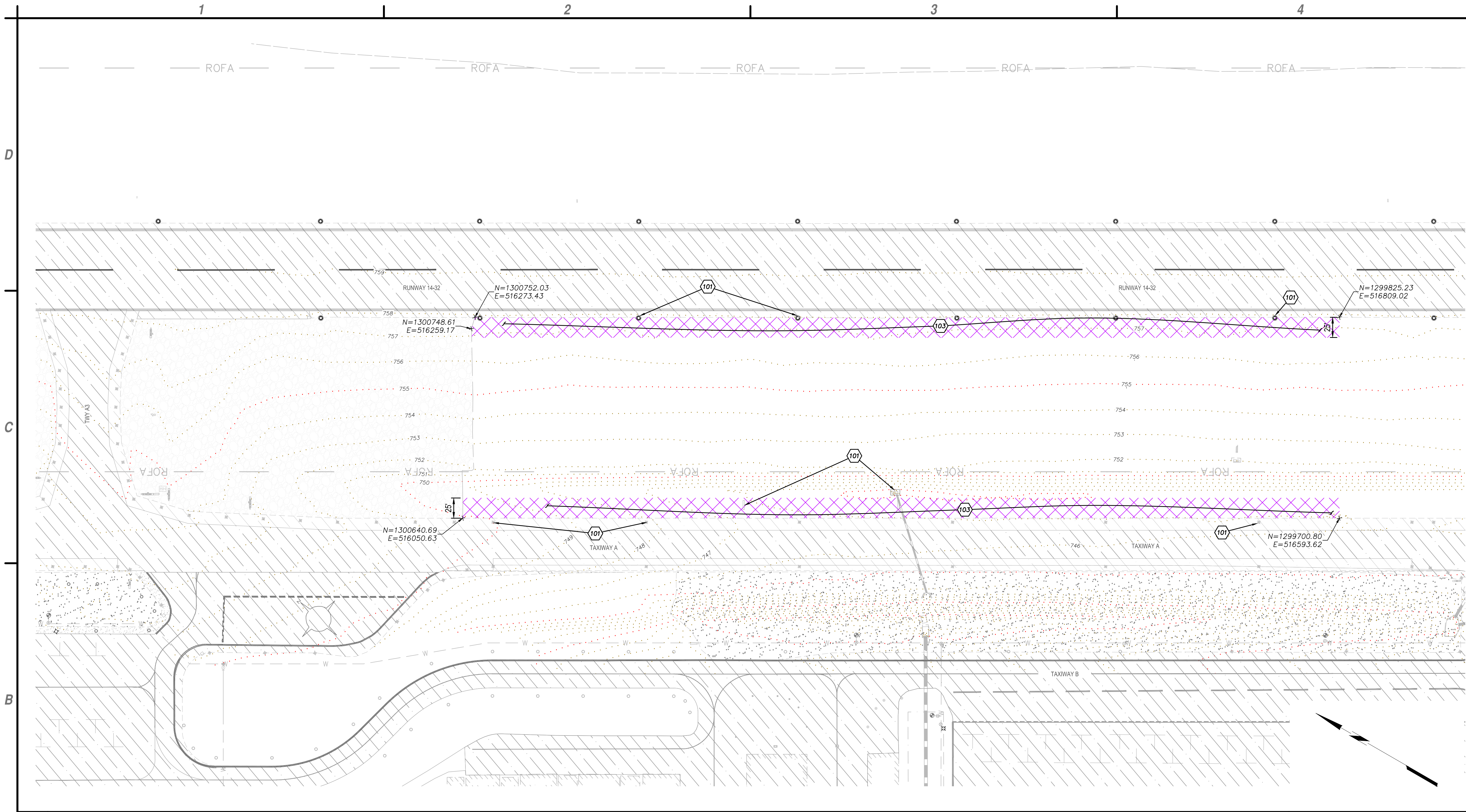
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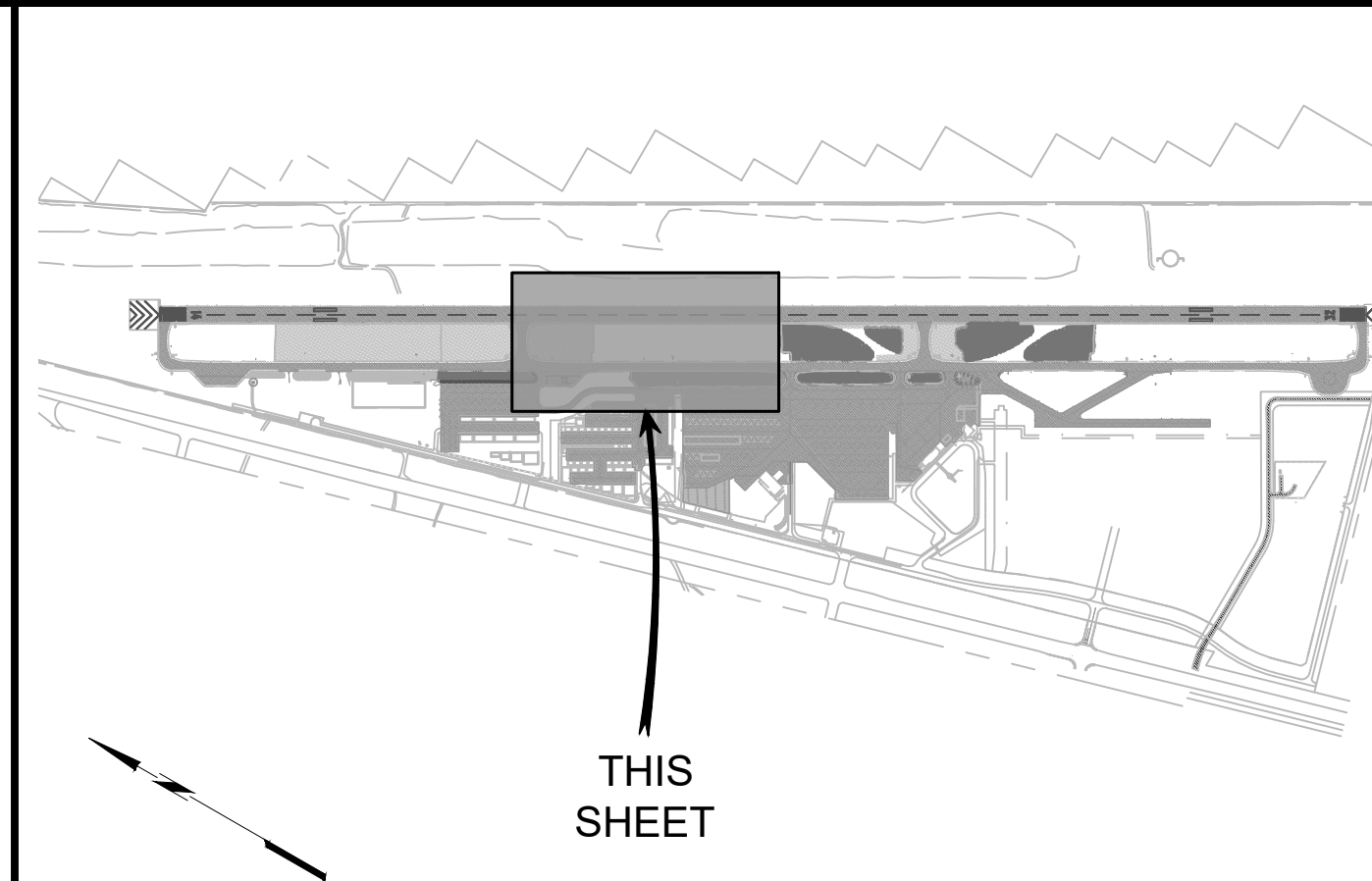
**DEMOLITION
PLAN
(PHASE 2)
(BID ALT. #1)**



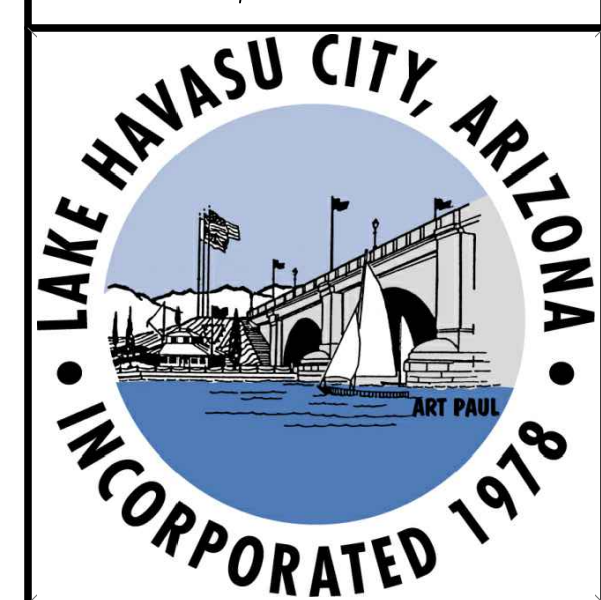
B1 DEMOLITION PLAN
SCALE: 1"=60'

- A1** **LEGEND**
NOT TO SCALE
- EXCAVATE EXISTING SOIL
 - EXISTING CRUSHED AGGREGATE EROSION PROTECTION
 - EXISTING AC PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING SOIL CEMENT

- A3** **CONSTRUCTION NOTES**
NOT TO SCALE
- 101 PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE, (TYP.).
 - 103 EXCAVATE EXISTING SOIL TRANSITION FROM 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501.



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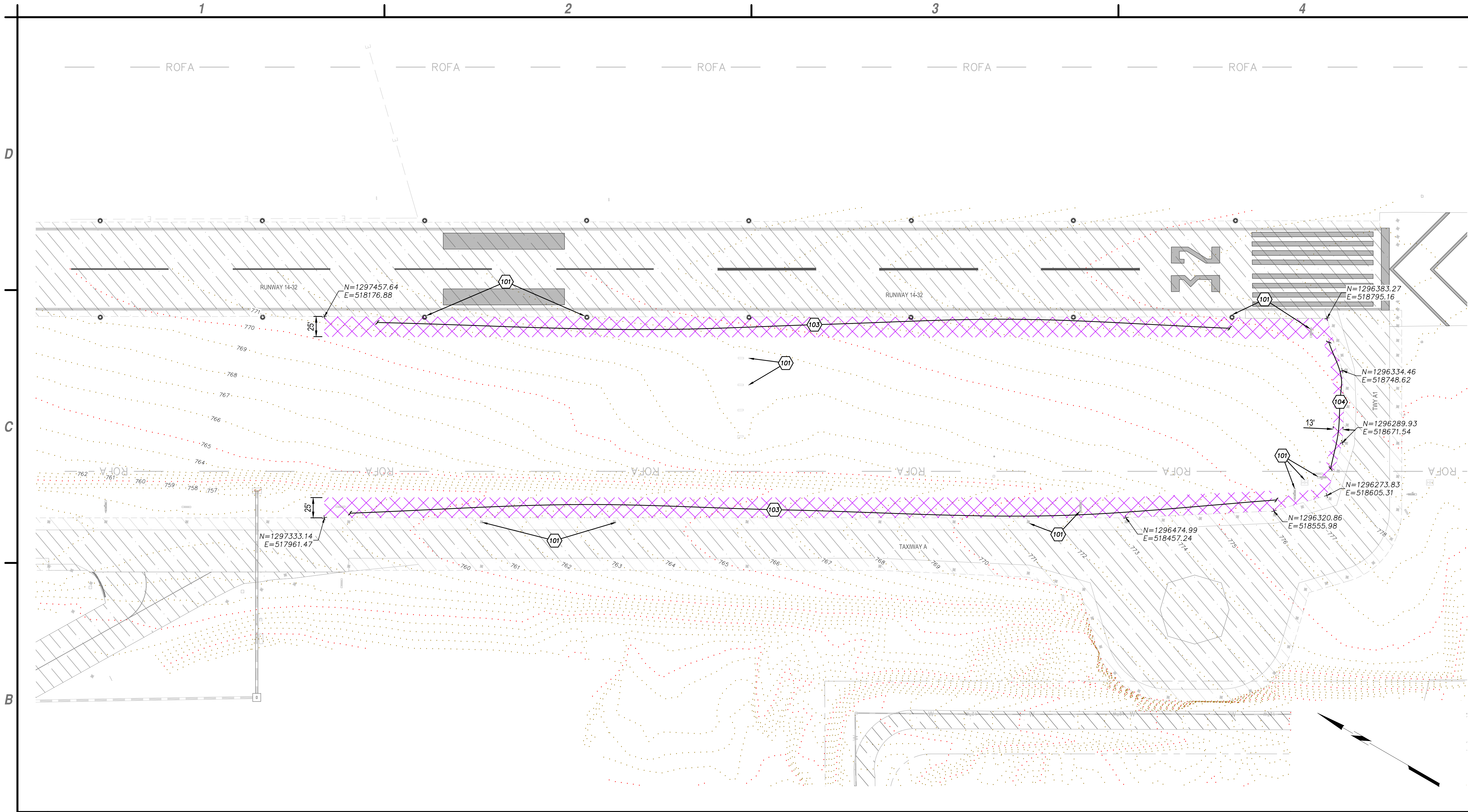


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**DEMOLITION
PLAN
(PHASE 2)
(BID ALT. #1)**

CD202



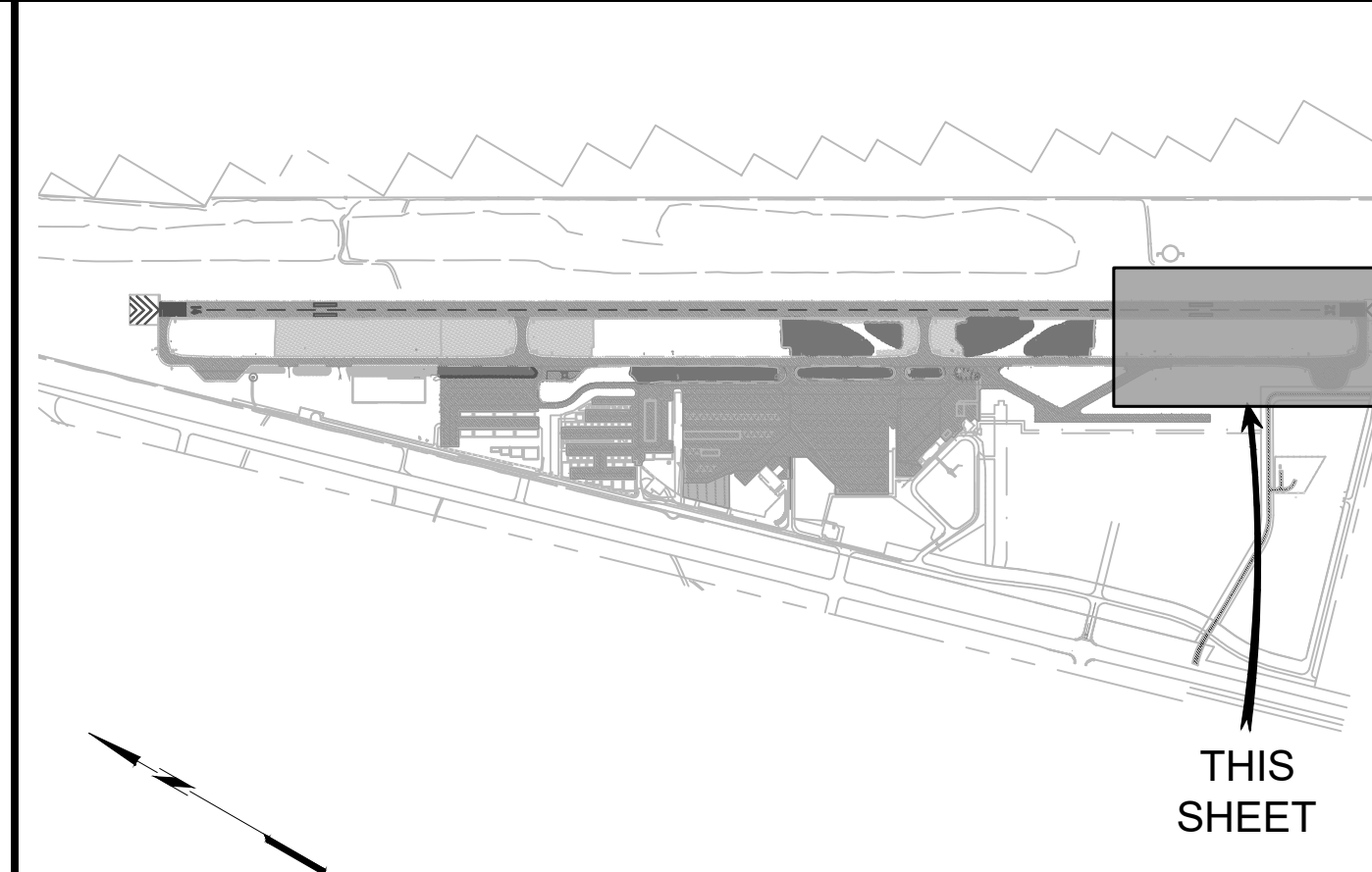
B1 DEMOLITION PLAN
SCALE: 1"=60'

- EXCAVATE EXISTING SOIL
- EXISTING CRUSHED AGGREGATE EROSION PROTECTION
- EXISTING AC PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING SOIL CEMENT

A1 LEGEND
NOT TO SCALE

- PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE, (TYP.).
- EXCAVATE EXISTING SOIL TRANSITION FROM 4" AT EDGE OF PAVEMENT TAPERED TO 0" AT 25' FROM PAVEMENT EDGE. SEE DETAIL C2, SHEET CG501.
- EXCAVATE EXISTING SOIL AT CONNECTOR TAXIWAY, DISTANCE VARIES. SEE DETAIL C2, SHEET CG502.

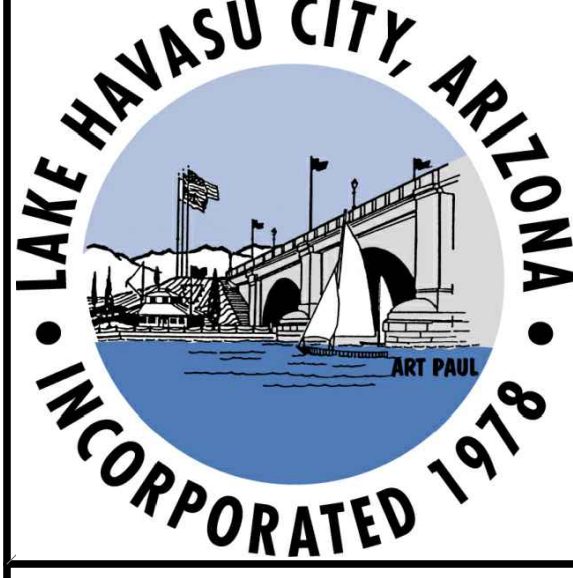
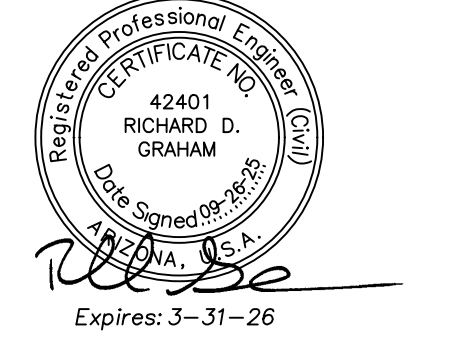
A3 CONSTRUCTION NOTES
NOT TO SCALE



A4 KEY MAP
NOT TO SCALE



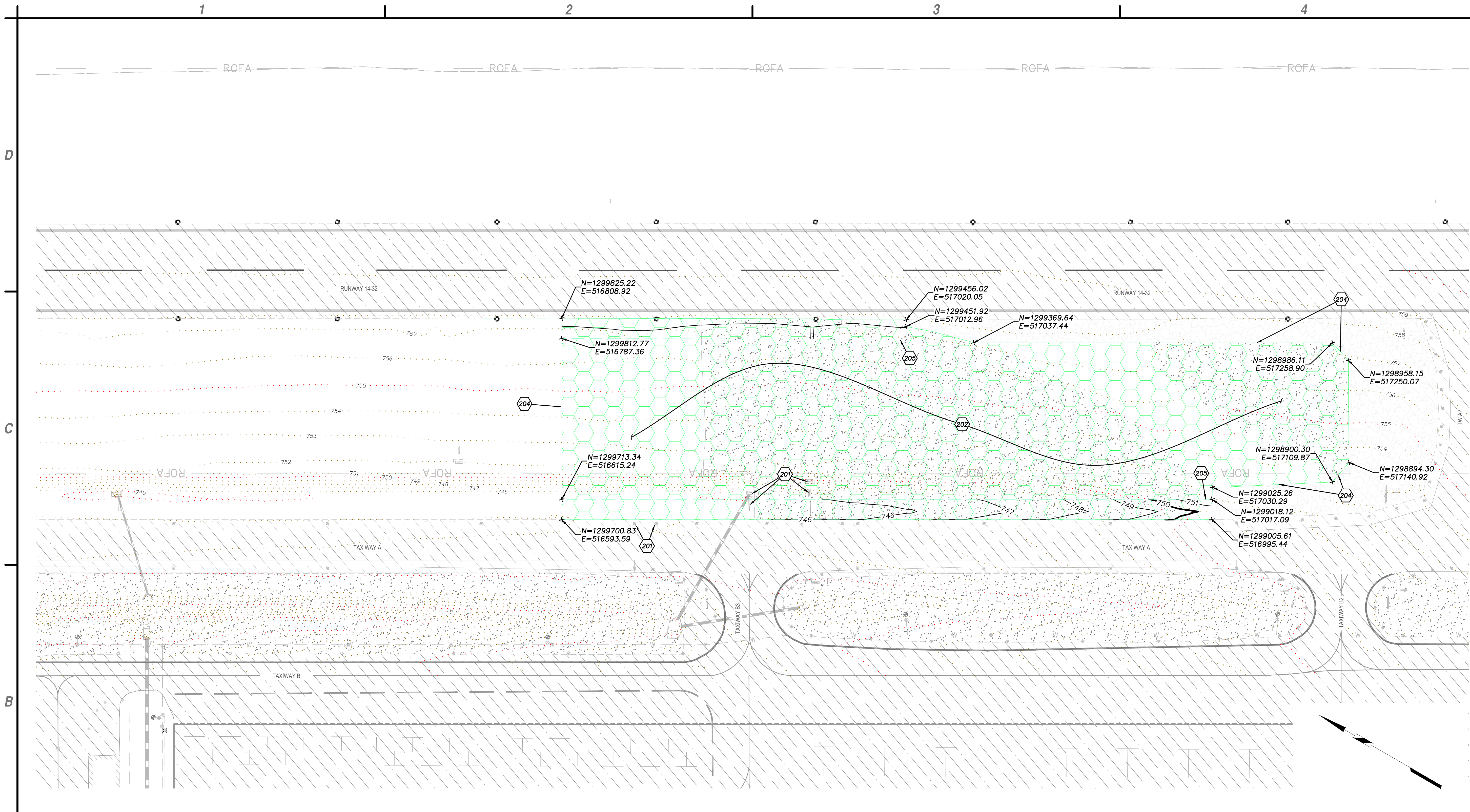
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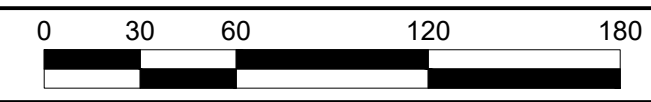
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**DEMOLITION
PLAN
(PHASE 2)
(BID ALT. #1)**



B1 IMPROVEMENT PLAN
SCALE: 1"=60'



4" CRUSHED AGGREGATE (PHASE 1) (BASE BID)

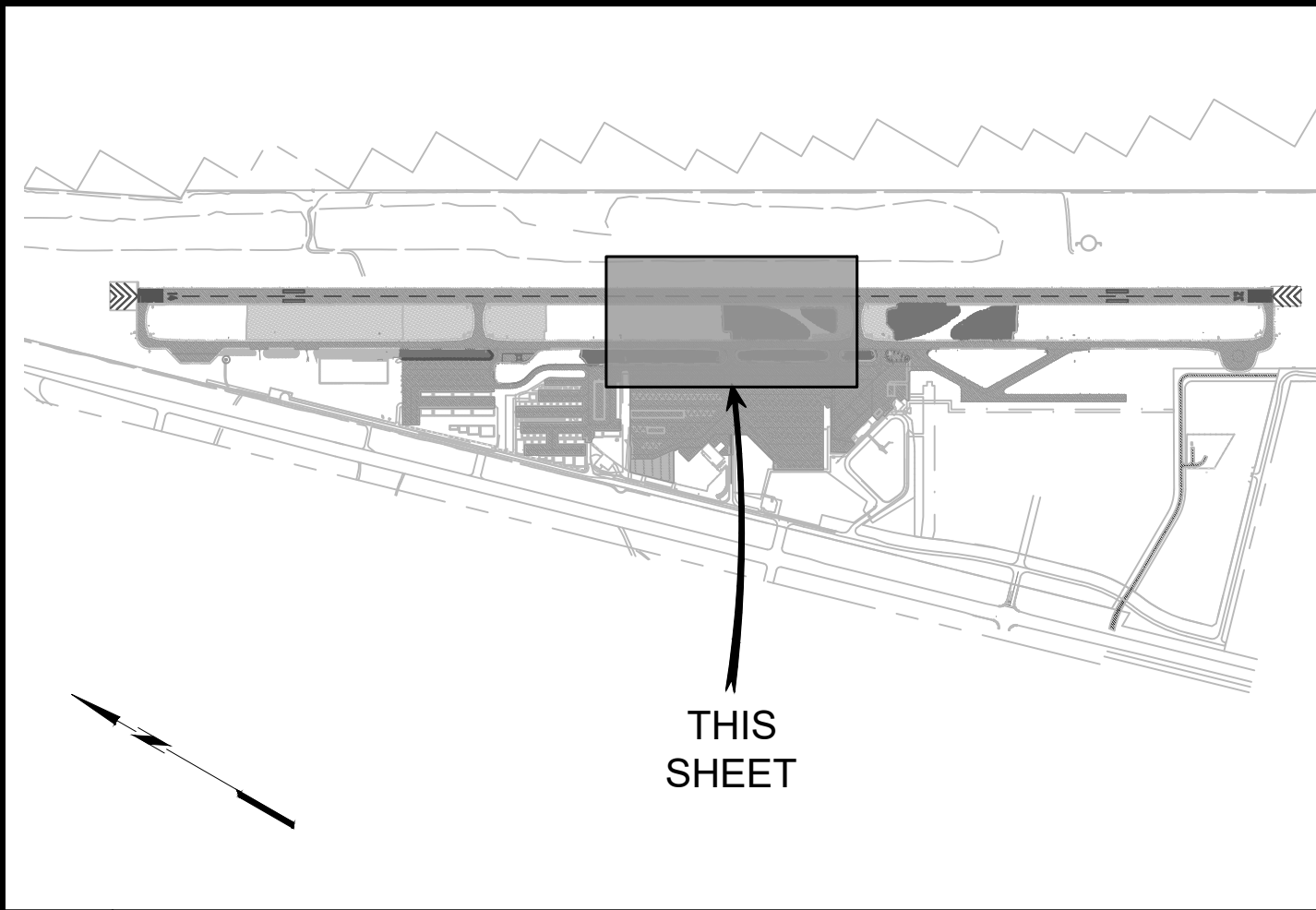
EXISTING CRUSHED AGGREGATE EROSION PROTECTION

EXISTING AC PAVEMENT

EXISTING CONCRETE PAVEMENT

EXISTING SOIL CEMENT

- 201** PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE (TYP.), SEE DETAIL A1, SHEET CG501 FOR GRADING DETAIL FOR EXISTING STRUCTURES WITHIN THE CRUSHED AGGREGATE LIMITS
- 202** PLACE, GRADE AND COMPACT EVENLY DISTRIBUTED 4" CRUSHED AGGREGATE. SEE DETAILS B2, SHEET CG501 AND B2, SHEET CG502.
- 204** TAPER AGGREGATE DEPTH TO MATCH EXISTING GRADE
- 205** LIMITS OF RE-GRADING PRIOR TO PLACEMENT OF CRUSHED AGGREGATE, ITEM P-152



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**RUNWAY SAFETY AREA
IMPROVEMENTS PROJECT**

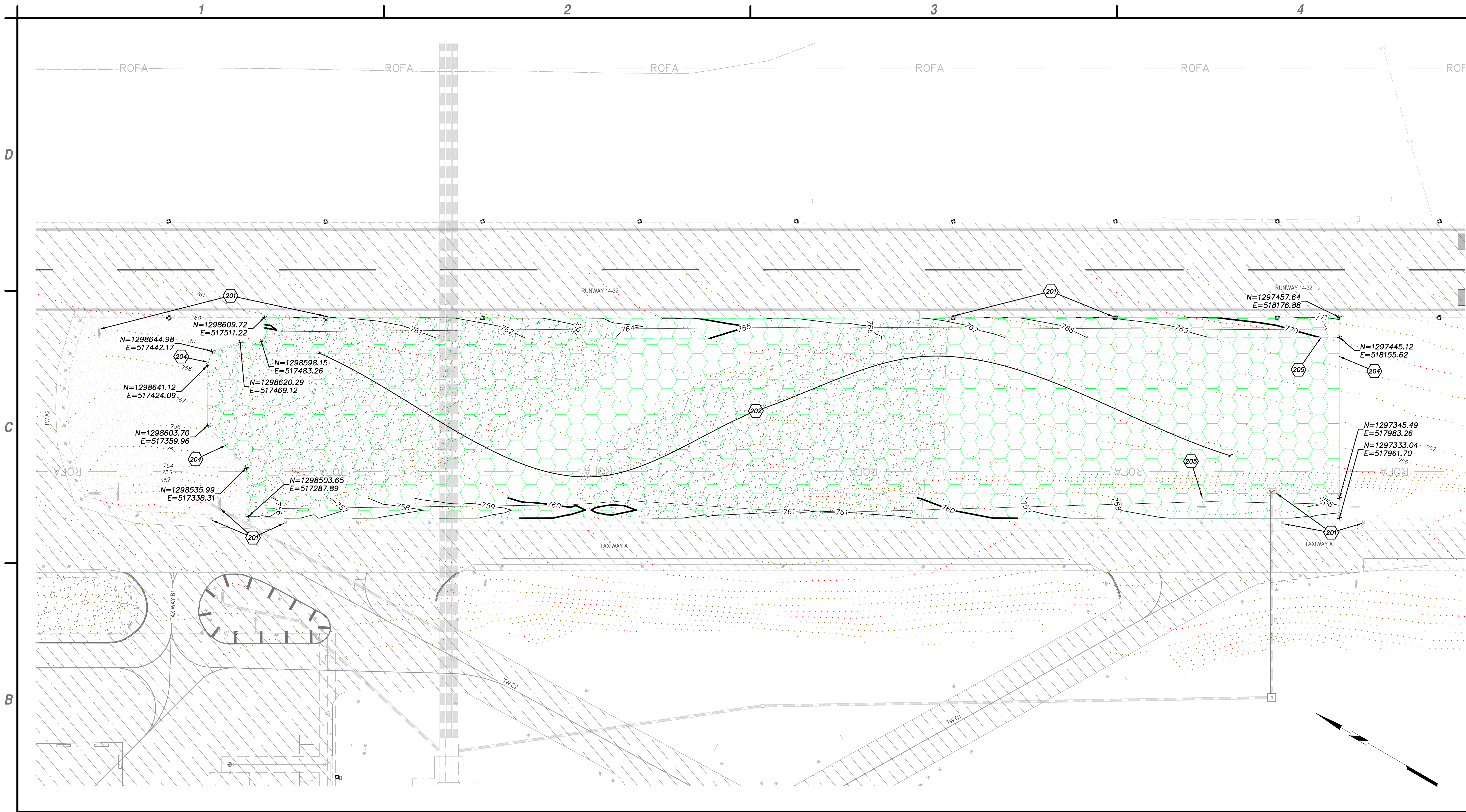
**LAKE HAVASU CITY MUNICIPAL AIRPORT
LAKE HAVASU CITY, AIRIZONA**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K33004005		
DATE: SEPTEMBER 2025		
DRAWN BY: RB		
DESIGNED BY: RB		
CHECKED BY: RG		

**IMPROVEMENT
PLAN
(PHASE 1)
(BASE BID)**

CG101
12 of 18

Oct 06, 2025 - 4:10pm
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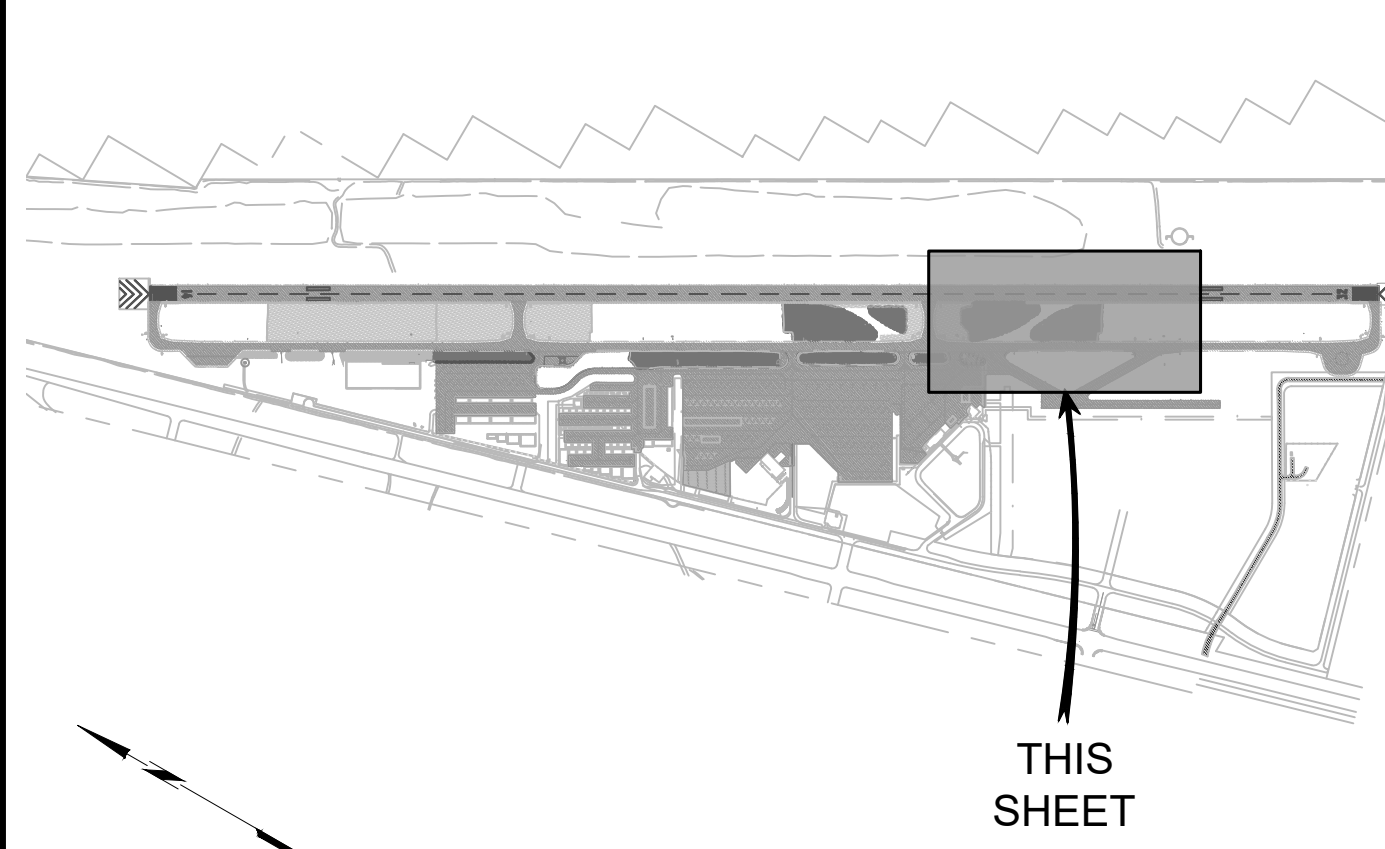


B1 IMPROVEMENT PLAN
SCALE: 1"=60'

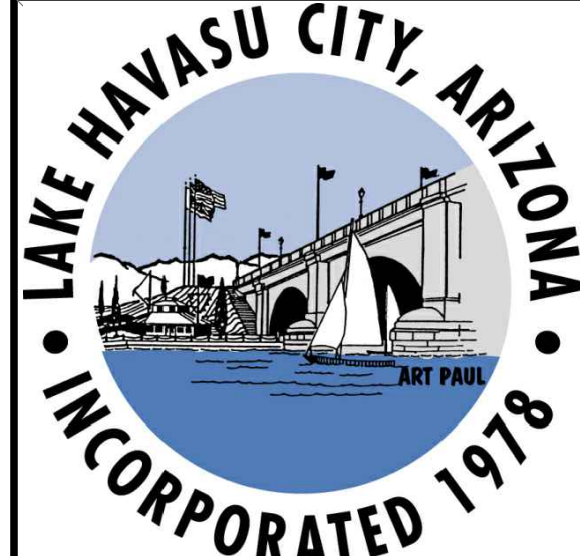
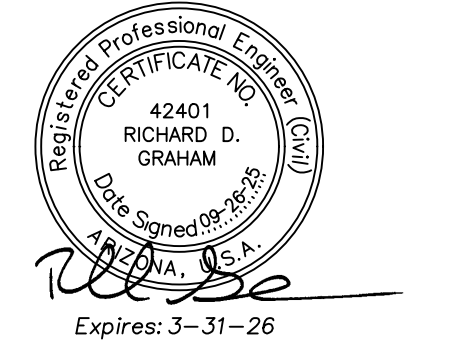


- A1** LEGEND
NOT TO SCALE
- 4" CRUSHED AGGREGATE (PHASE 1) (BASE BID)
 - EXISTING CRUSHED AGGREGATE EROSION PROTECTION
 - EXISTING AC PAVEMENT
 - EXISTING CONCRETE PAVEMENT
 - EXISTING SOIL CEMENT

- A3** CONSTRUCTION NOTES
NOT TO SCALE
- PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE (TYP.), SEE DETAIL A1, SHEET CG501 FOR GRADING DETAIL FOR EXISTING STRUCTURES WITHIN THE CRUSHED AGGREGATE LIMITS
 - PLACE, GRADE AND COMPACT EVENLY DISTRIBUTED 4" CRUSHED AGGREGATE. SEE DETAILS B2, SHEET CG501 AND B2, SHEET CG502.
 - TAPER AGGREGATE DEPTH TO MATCH EXISTING GRADE
 - LIMITS OF RE-GRADING PRIOR TO PLACEMENT OF CRUSHED AGGREGATE, ITEM P-152



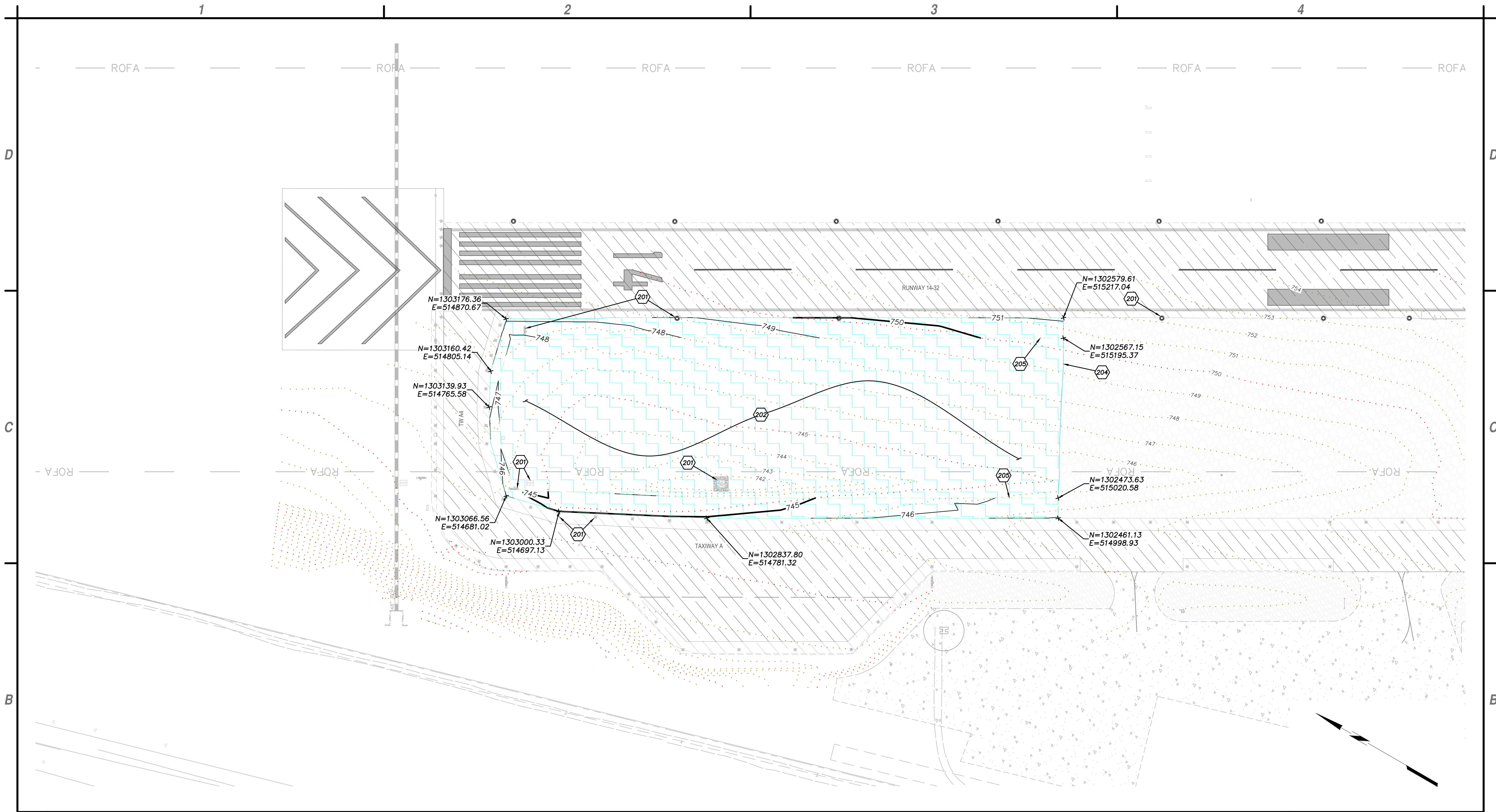
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**RUNWAY SAFETY AREA
IMPROVEMENTS PROJECT**
LAKE HAVASU CITY MUNICIPAL AIRPORT
LAKE HAVASU CITY, AIRIZONA

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**IMPROVEMENT
PLAN
(PHASE 1)
(BASE BID)**



B1 IMPROVEMENT PLAN
SCALE: 1"=60'

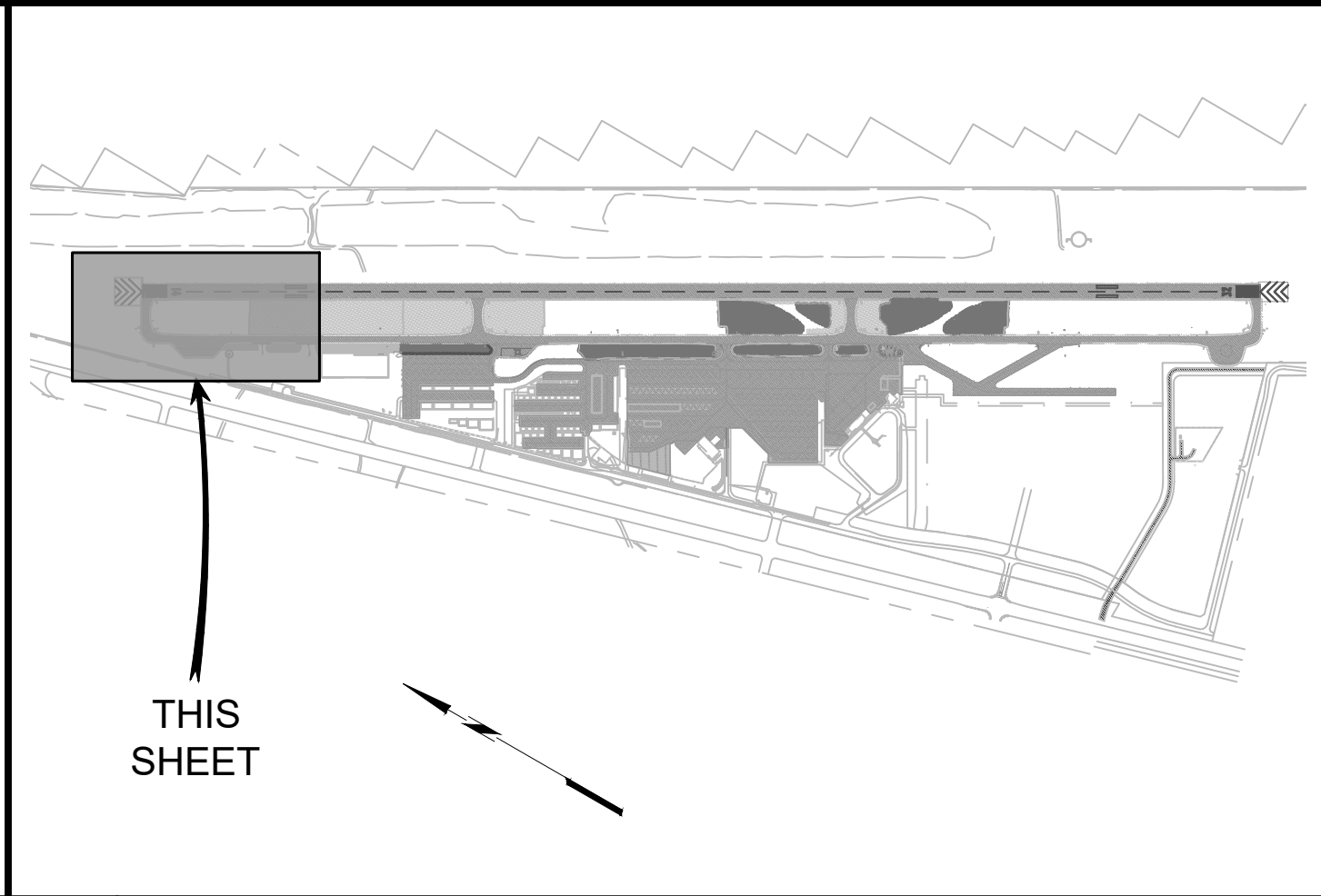


A		4" CRUSHED AGGREGATE (PHASE 2) (BID ALTERNATE #1)
		EXISTING CRUSHED AGGREGATE EROSION PROTECTION
		EXISTING AC PAVEMENT
		EXISTING CONCRETE PAVEMENT
		EXISTING SOIL CEMENT

A1 LEGEND
NOT TO SCALE

- (201) PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE (TYP.), SEE DETAIL A1, SHEET CG501 FOR GRADING DETAIL FOR EXISTING STRUCTURES WITHIN THE CRUSHED AGGREGATE LIMITS
- (202) PLACE, GRADE AND COMPACT EVENLY DISTRIBUTED 4" CRUSHED AGGREGATE. SEE DETAILS B2, SHEET CG501 AND B2, SHEET CG502.
- (204) TAPER AGGREGATE DEPTH TO MATCH EXISTING GRADE
- (205) LIMITS OF RE-GRADING PRIOR TO PLACEMENT OF CRUSHED AGGREGATE, ITEM P-152

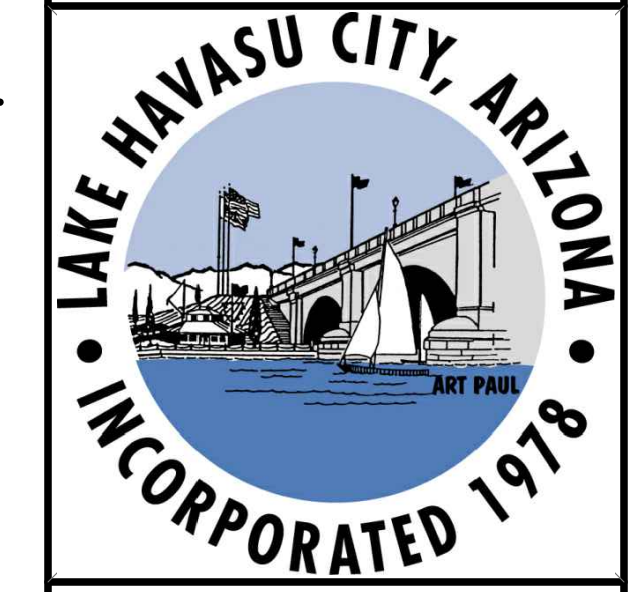
A3 CONSTRUCTION NOTES
NOT TO SCALE



A4 KEY MAP
NOT TO SCALE



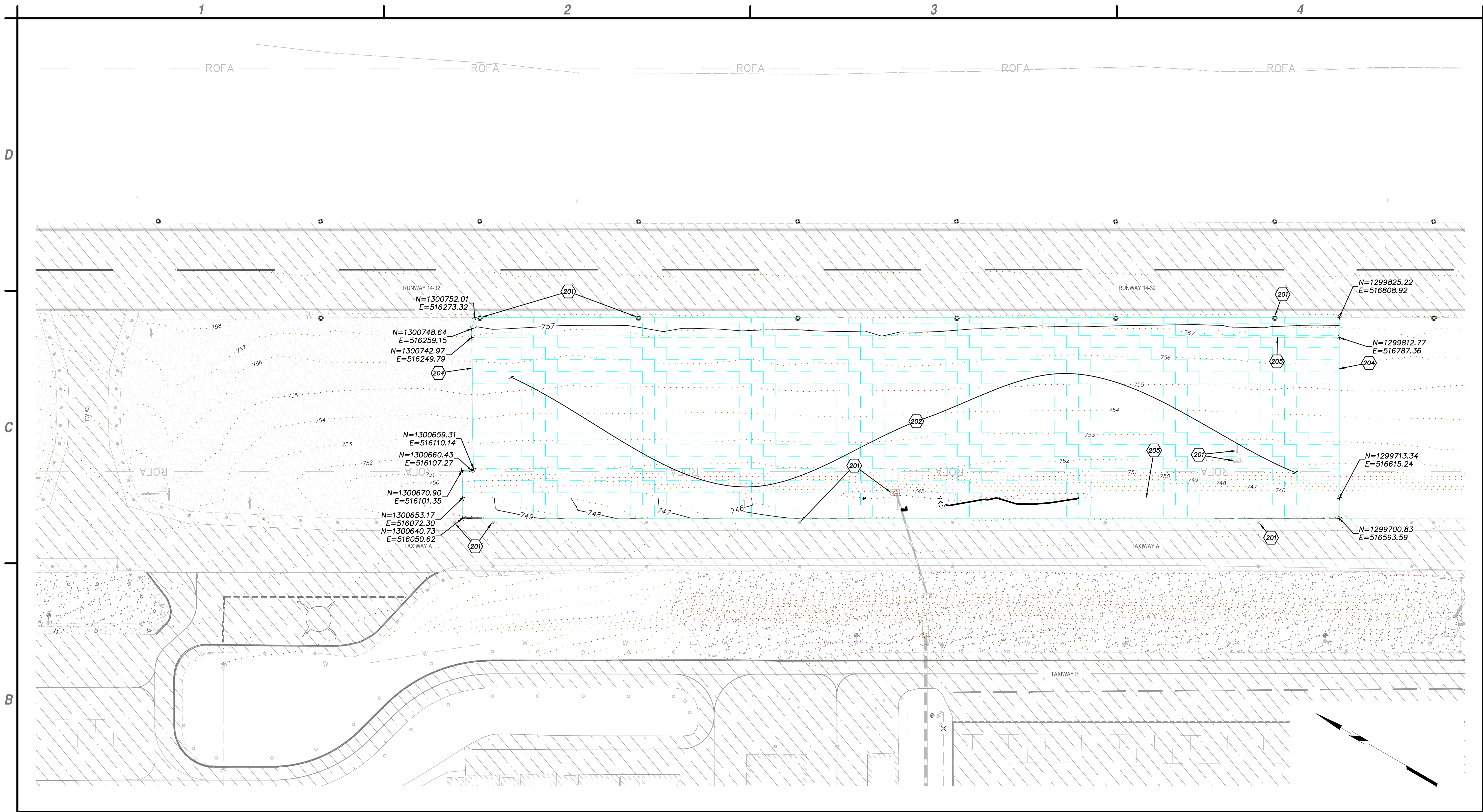
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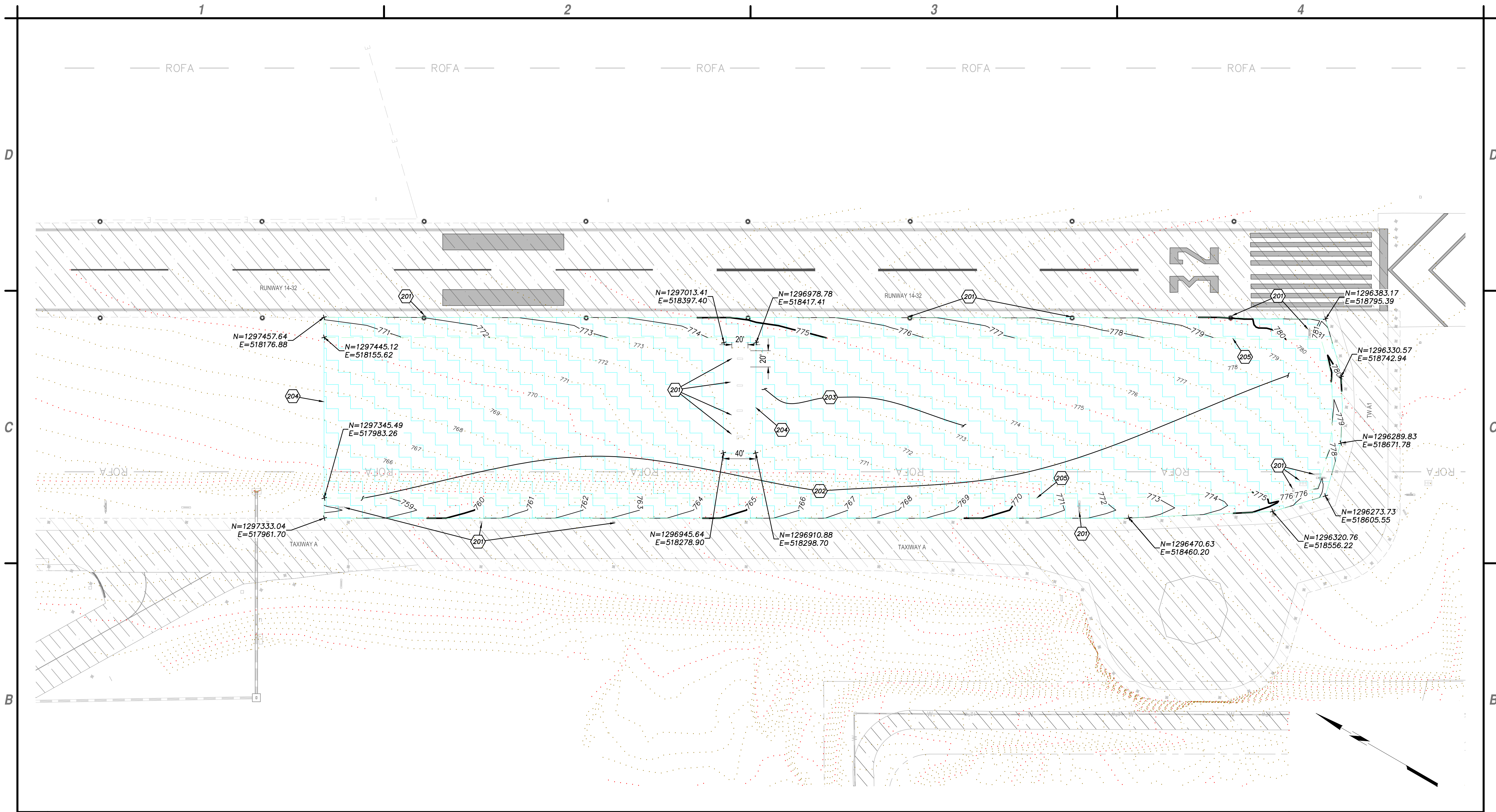


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**IMPROVEMENT
PLAN
(PHASE 2)
(BID ALT. #1)**





B1 IMPROVEMENT PLAN
SCALE: 1"=60'

4" CRUSHED AGGREGATE (PHASE 2) (BID ALTERNATE #1)

EXISTING CRUSHED AGGREGATE EROSION PROTECTION

EXISTING AC PAVEMENT

EXISTING CONCRETE PAVEMENT

EXISTING SOIL CEMENT

A1

LEGEND

NOT TO SCALE

PROTECT EXISTING LIGHTS, SIGNS AND UTILITIES IN PLACE (TYP.), SEE DETAIL A1, SHEET CG501 FOR GRADING DETAIL FOR EXISTING STRUCTURES WITHIN THE CRUSHED AGGREGATE LIMITS.

PLACE, GRADE AND COMPACT EVENLY DISTRIBUTED 4" CRUSHED AGGREGATE. SEE DETAILS B2, SHEET CG501 AND B2, SHEET CG502.

(IF BID ALTERNATE 1 IS AWARDED) PLACE, GRADE AND COMPACT EVENLY DISTRIBUTED 4" CRUSHED AGGREGATE. SEE DETAILS B2, SHEET CG501 AND B2, SHEET CG502.

TAPER AGGREGATE DEPTH TO MATCH EXISTING GRADE

LIMITS OF RE-GRADING PRIOR TO PLACEMENT OF CRUSHED AGGREGATE, ITEM P-152

A3

CONSTRUCTION NOTES

NOT TO SCALE

A4

KEY MAP

NOT TO SCALE

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RUNWAY SAFETY AREA
IMPROVEMENTS PROJECT

LAKE HAVASU CITY MUNICIPAL AIRPORT
LAKE HAVASU CITY, AIRIZONA

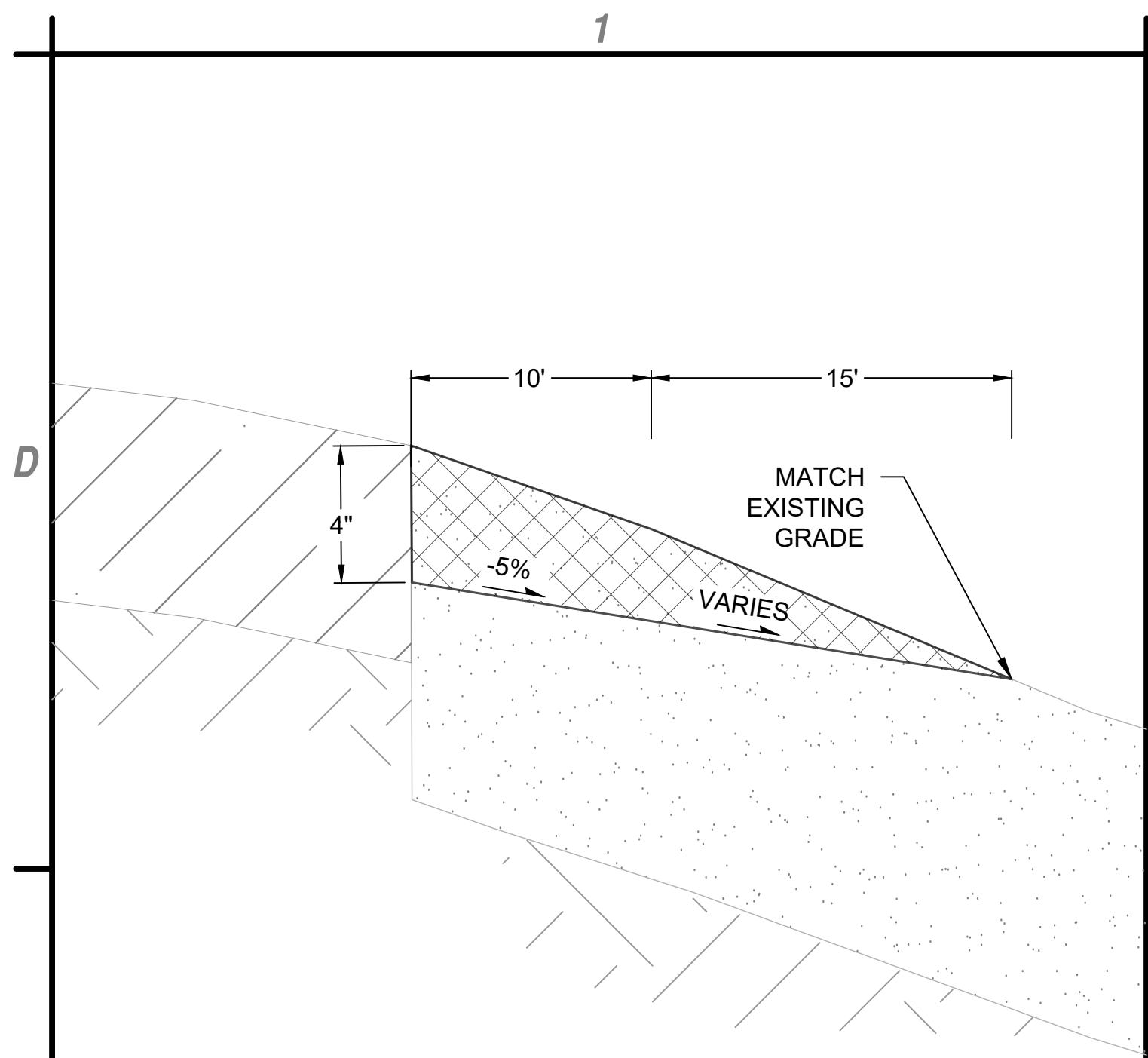
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**IMPROVEMENT
PLAN
(PHASE 2)
(BID ALT. #1)**

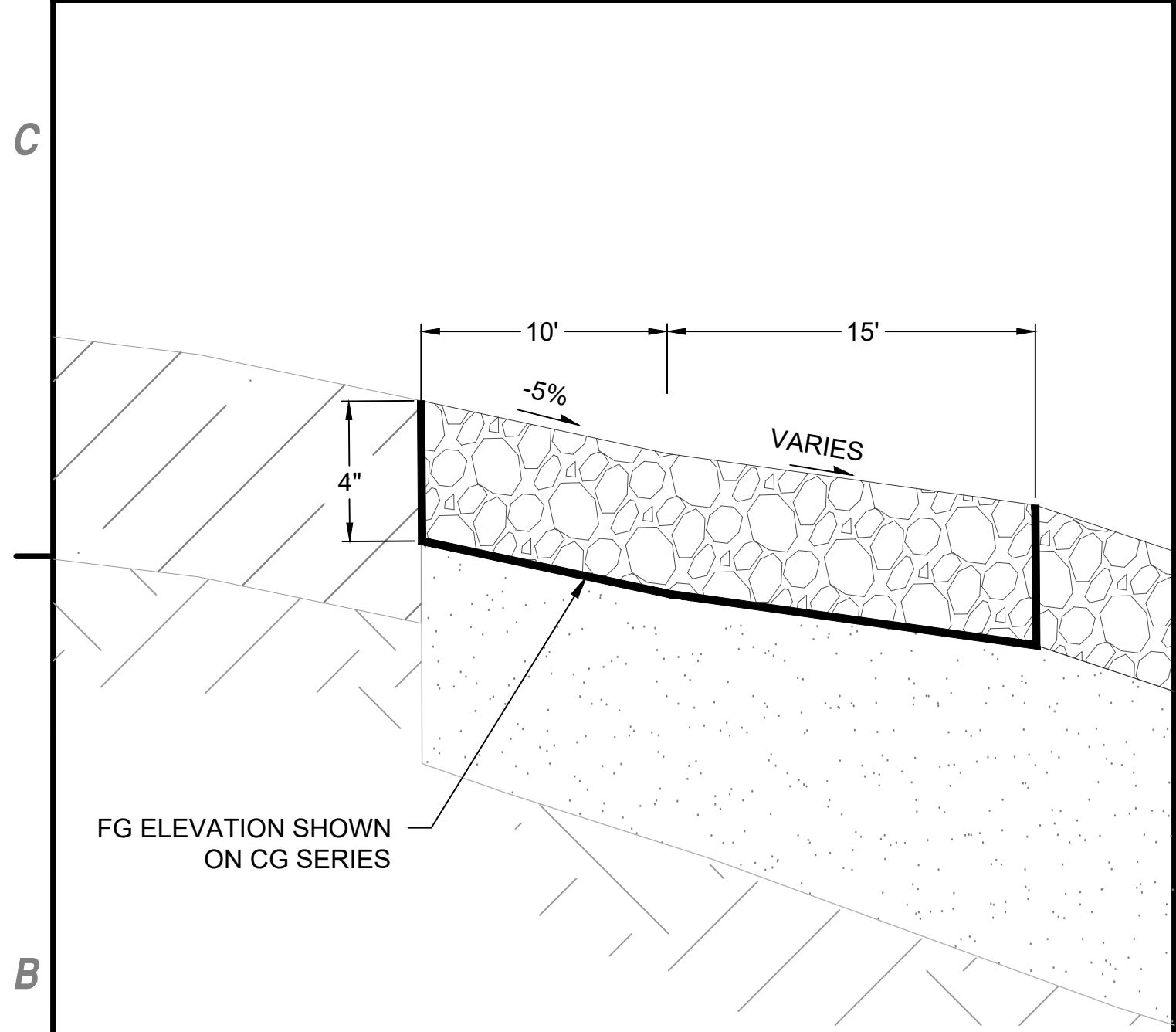
CG203

16 of 18

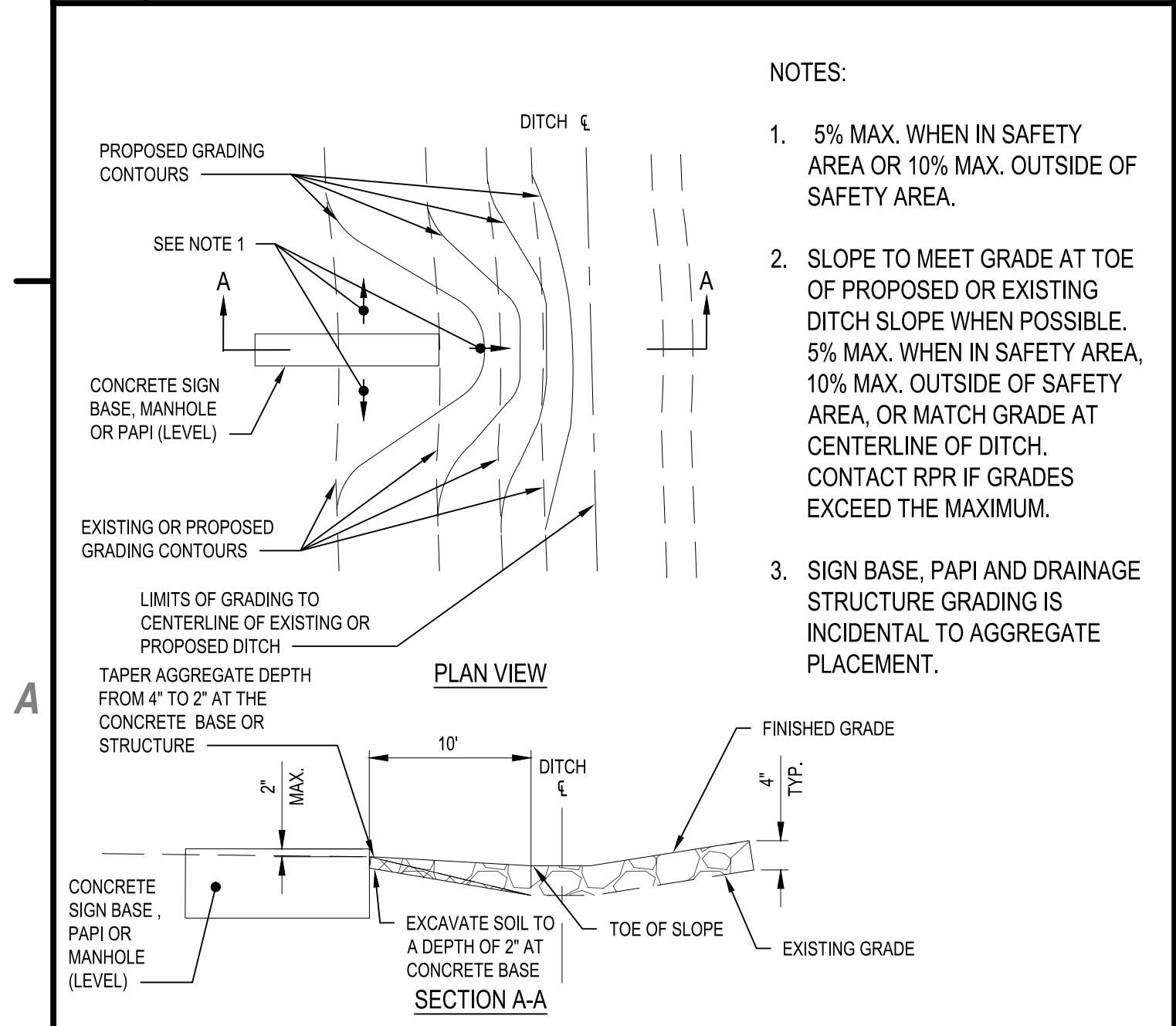
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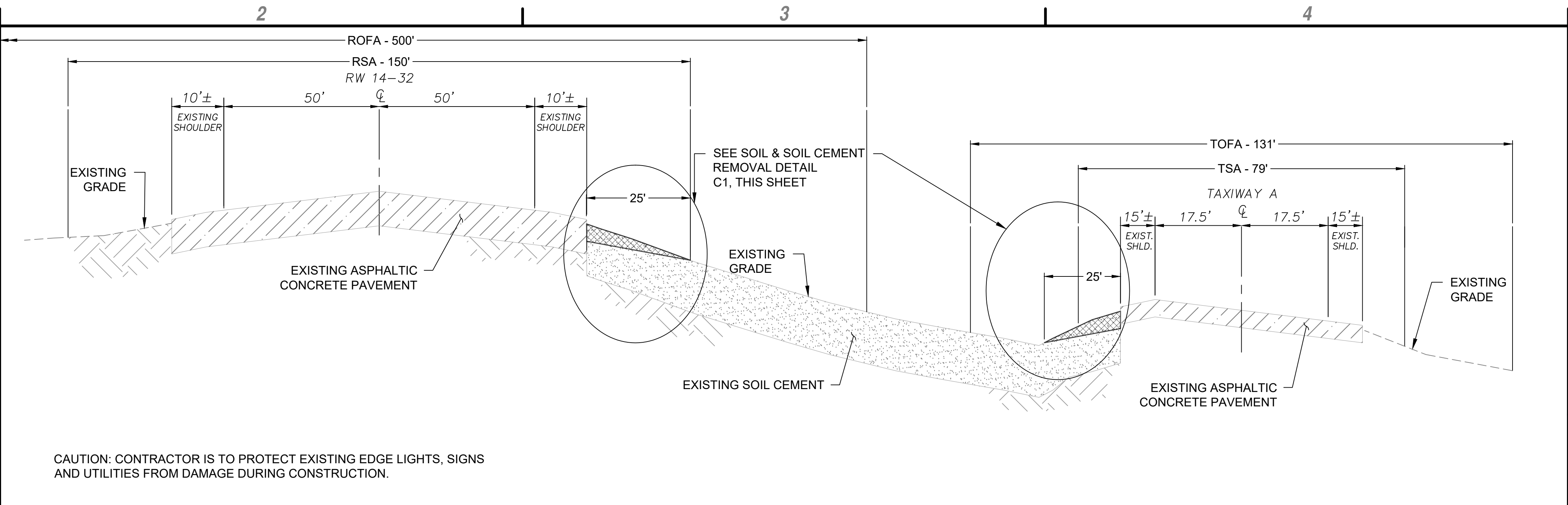
C1 SOIL & SOIL CEMENT REMOVAL EDGE DETAIL
NOT TO SCALE



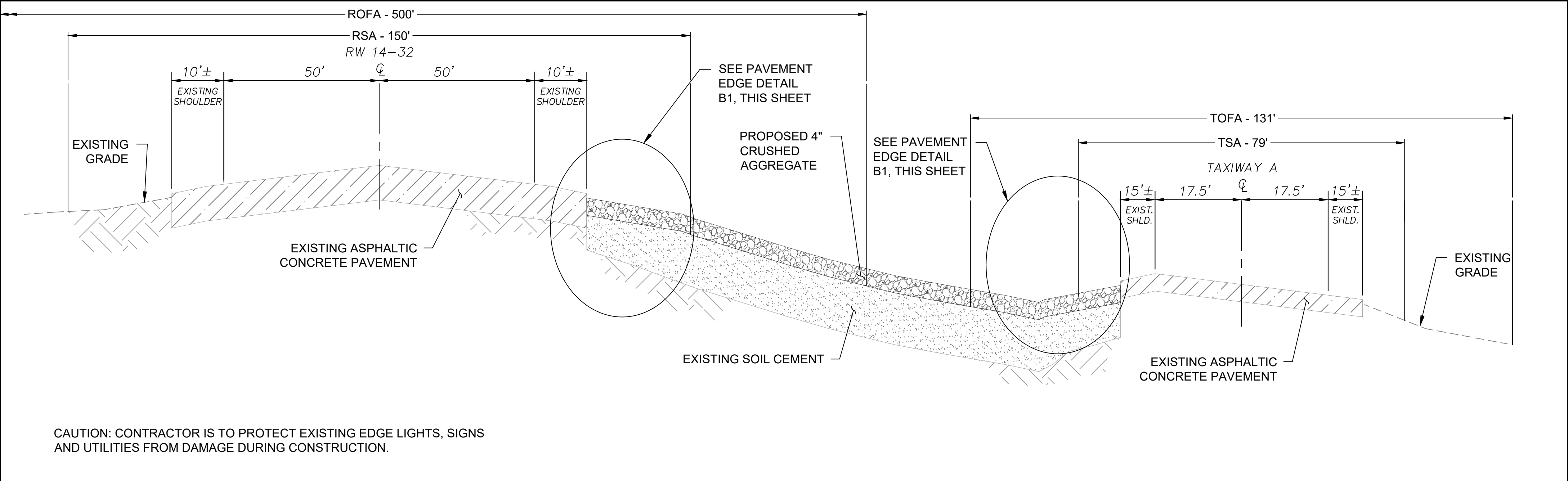
B1 TYPICAL CRUSHED AGGREGATE EDGE DETAIL
NOT TO SCALE



A1 AIRFIELD GUIDANCE SIGN GRADING DETAIL
NOT TO SCALE



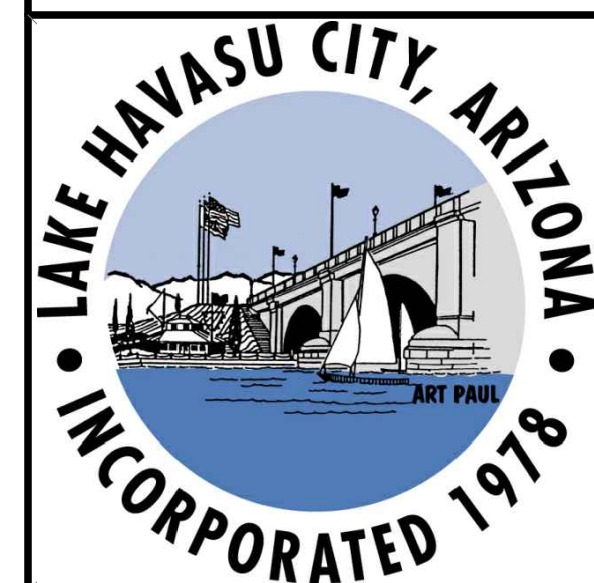
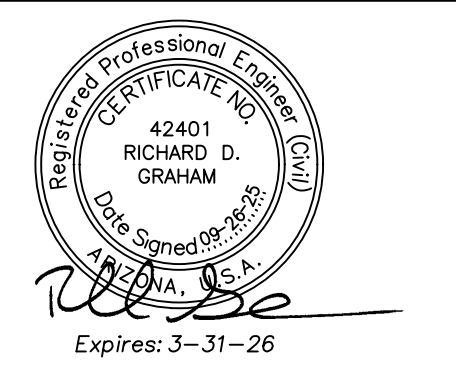
C2 PROPOSED REMOVE SOIL & SOIL CEMENT TYPICAL SECTION
NOT TO SCALE



B2 PROPOSED CRUSHED AGGREGATE TYPICAL SECTION
NOT TO SCALE



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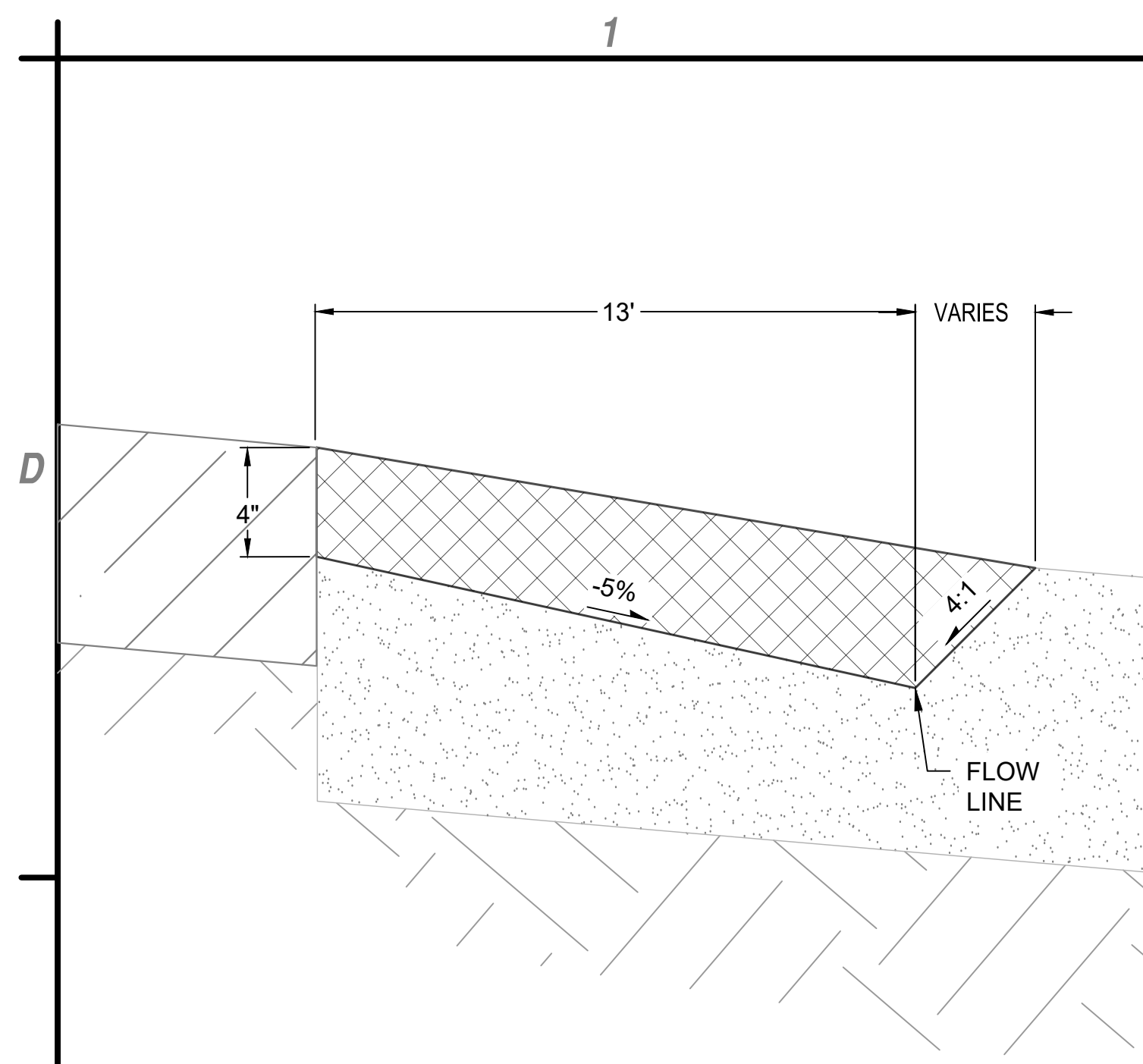


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LAKE HAVASU CITY, AIRIZONA

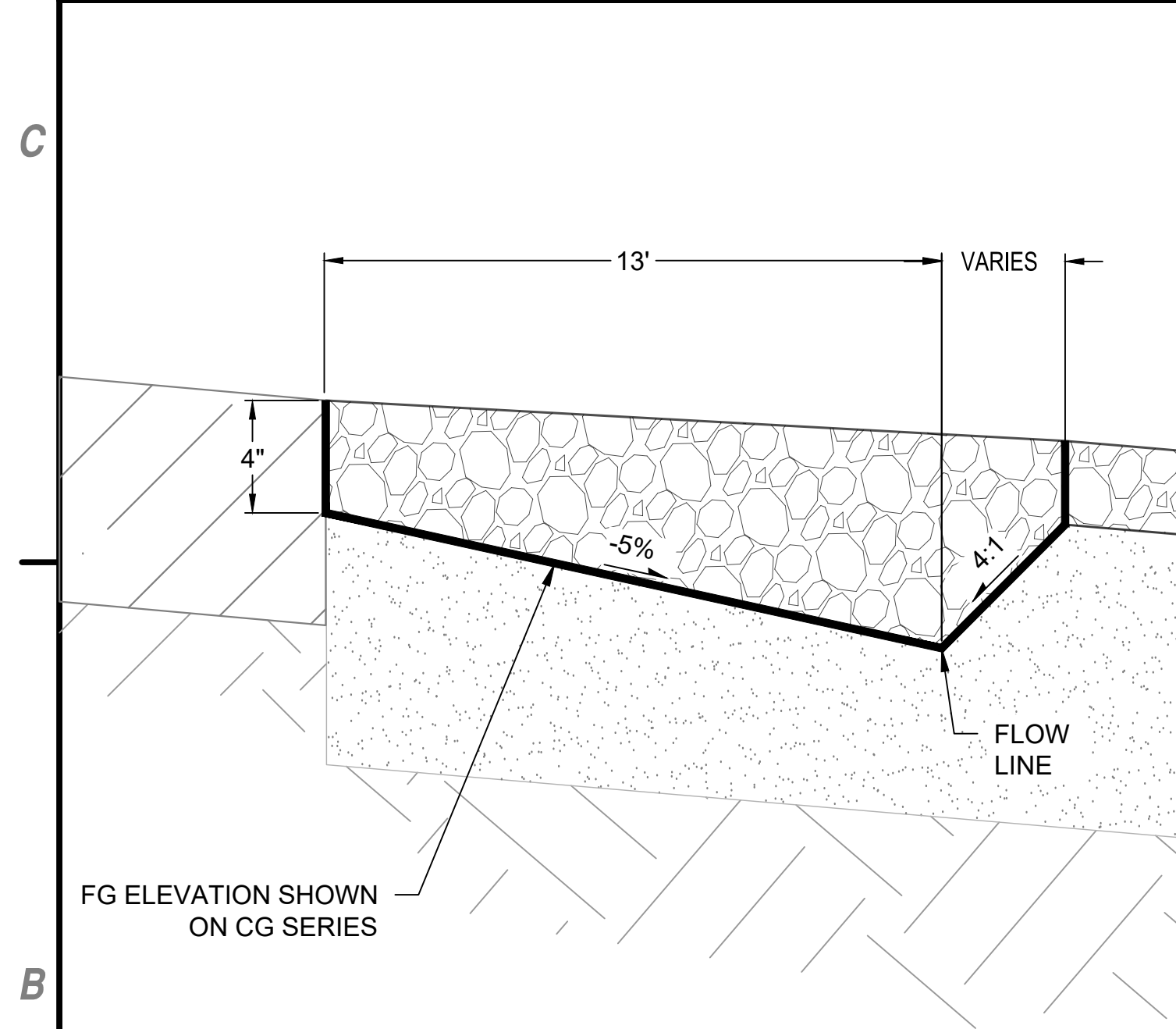
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**TYPICAL
SECTIONS
AND
DETAILS**

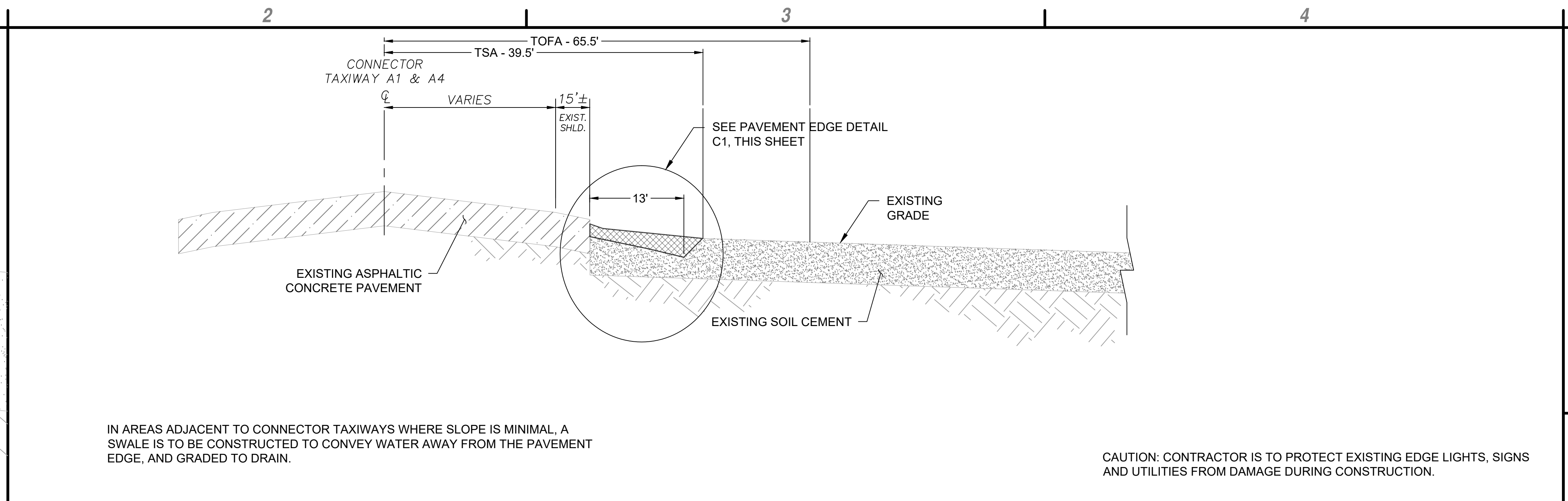
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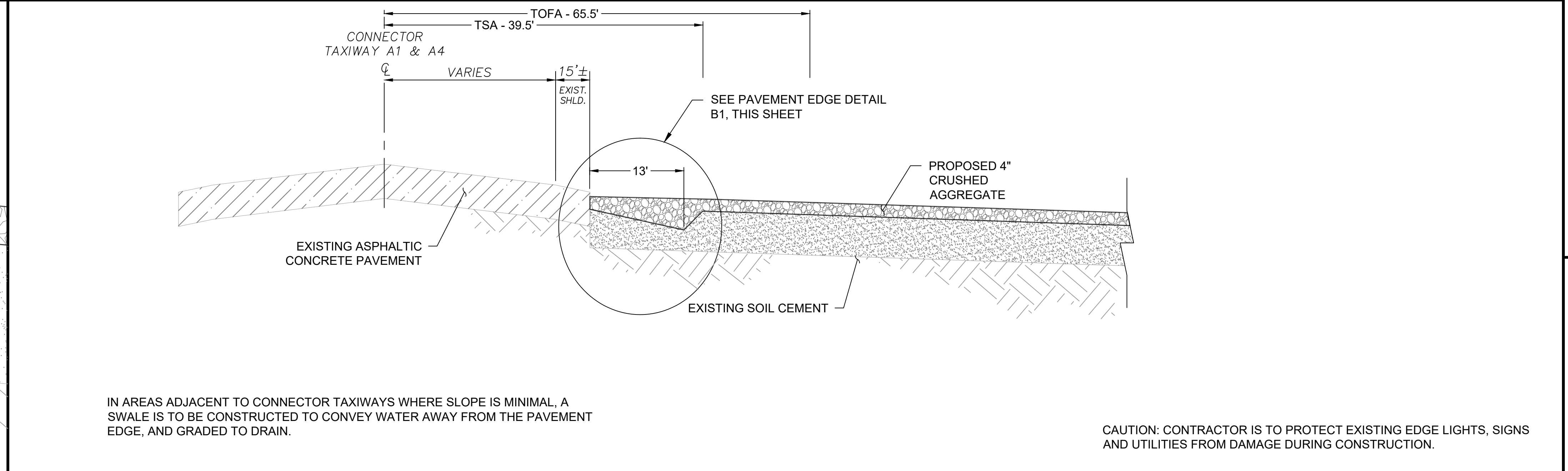
C1	SOIL & SOIL CEMENT REMOVAL EDGE DETAIL
	NOT TO SCALE



B1	TYPICAL CRUSHED AGGREGATE EDGE DETAIL
	NOT TO SCALE



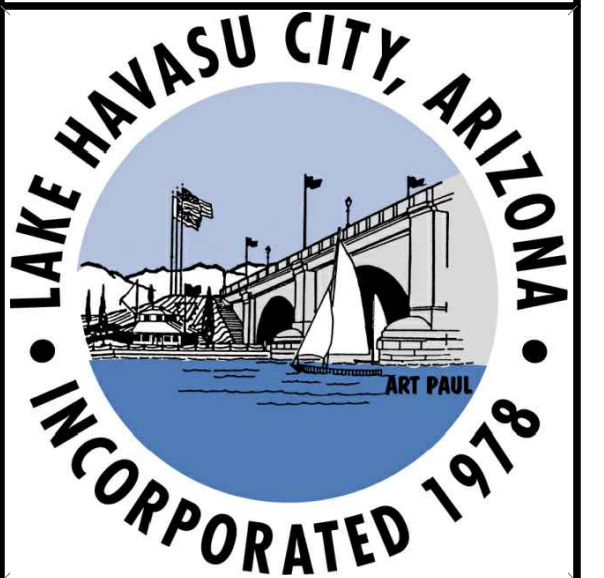
C2	PROPOSED REMOVE SOIL & SOIL CEMENT - TYPICAL ADJACENT TO CONNECTOR TAXIWAY A1 & A4
	SCALE: 1:40'



B2	PROPOSED CRUSHED AGGREGATE TYPICAL SECTION - ADJACENT TO CONNECTOR TAXIWAY A1 & A4
	SCALE: 1"=40'



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CHECKED BY:		RG	

TYPICAL SECTIONS AND DETAILS

CG502

18 of 18

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