


**Department Use**

Case #
Meeting Date
Total Fee
Received By/Date

Additional Information Please refer to the Justification Letter and Site Plan for details.

24-0046
05/20/2024

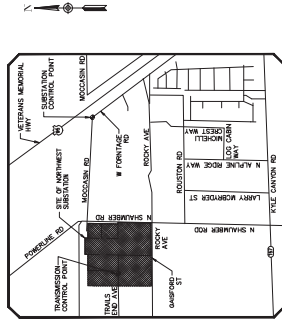
 KRYNN WILLIAMS
Notary Public-State of Nevada
APPT. NO. 94-0219-1
My Appt. Expires 04-20-2028



APN
T199 B.59F S1

[illegible]

NV Energy
M/S S4805
6100 NEIL ROAD
RENO, NV. 89511
CONTACT: DEVON KENDALL, P.E.
(775) 834-3553



C101	COVER SHEET
C102	EXISTING CONDITIONS AND REMOVAL PLAN
C201	OVERALL GRADING AND GENERAL NOTES
C202	OVERALL GRADING PLAN

C301	SECTION - A
C302	SECTION - B
C303	SECTION - C
C304	SECTION - D
C305	SECTION - E
C306	DITCH - I PLAN AND SECTION - F
C307	CONCRETE DIVERSION CHANNEL PLAN AND SECTION - G
C308	DITCH - F PLAN AND SECTION - H AND J
C309	DITCH - E PLAN AND SECTION - K
C310	ACCESS ROAD - I PLAN AND SECTION - L
C401	OVERALL WALL AND GATE PLAN
C402	WALL SECTION STA 19+00 TO 19+00
C403	WALL SECTION STA 19+00 TO 23+00
C404	WALL SECTION STA 23+00 TO 28+00
C405	WALL SECTION STA 28+00 TO 33+05

COVER SHEET

NORTHWEST SUBSTATION

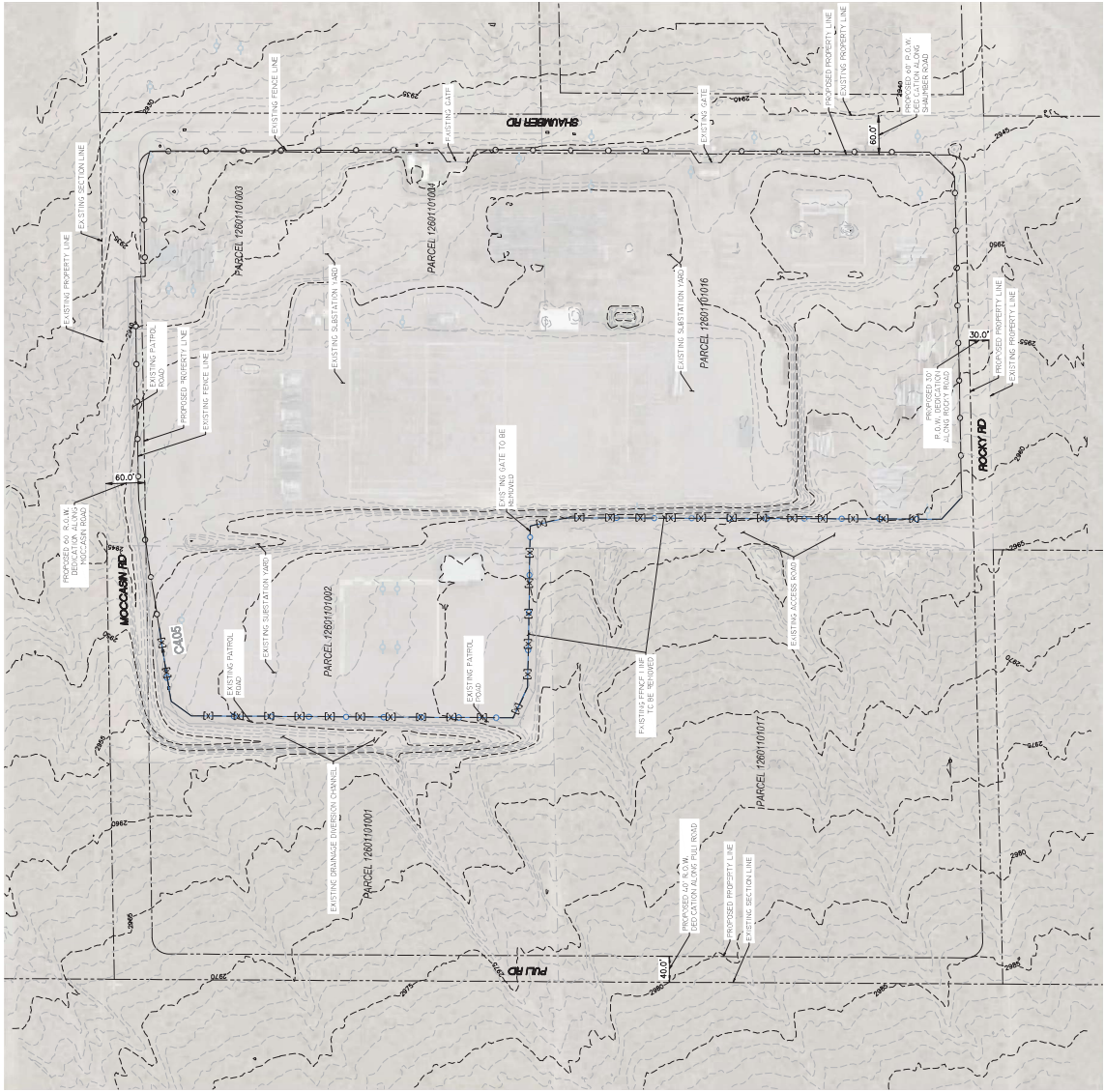
SHT. NO.
C1.01
1 of 2
LAS VEGAS
74 0006

ISSUE FOR PERMIT
NOT FOR CONSTRUCTION
05/16/2024

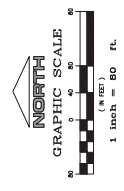
24-0046
05/16/2024

☒ ISSUED FOR: ☐ REVIEW ☐ BID ☐ CONSTRUCTION

THE

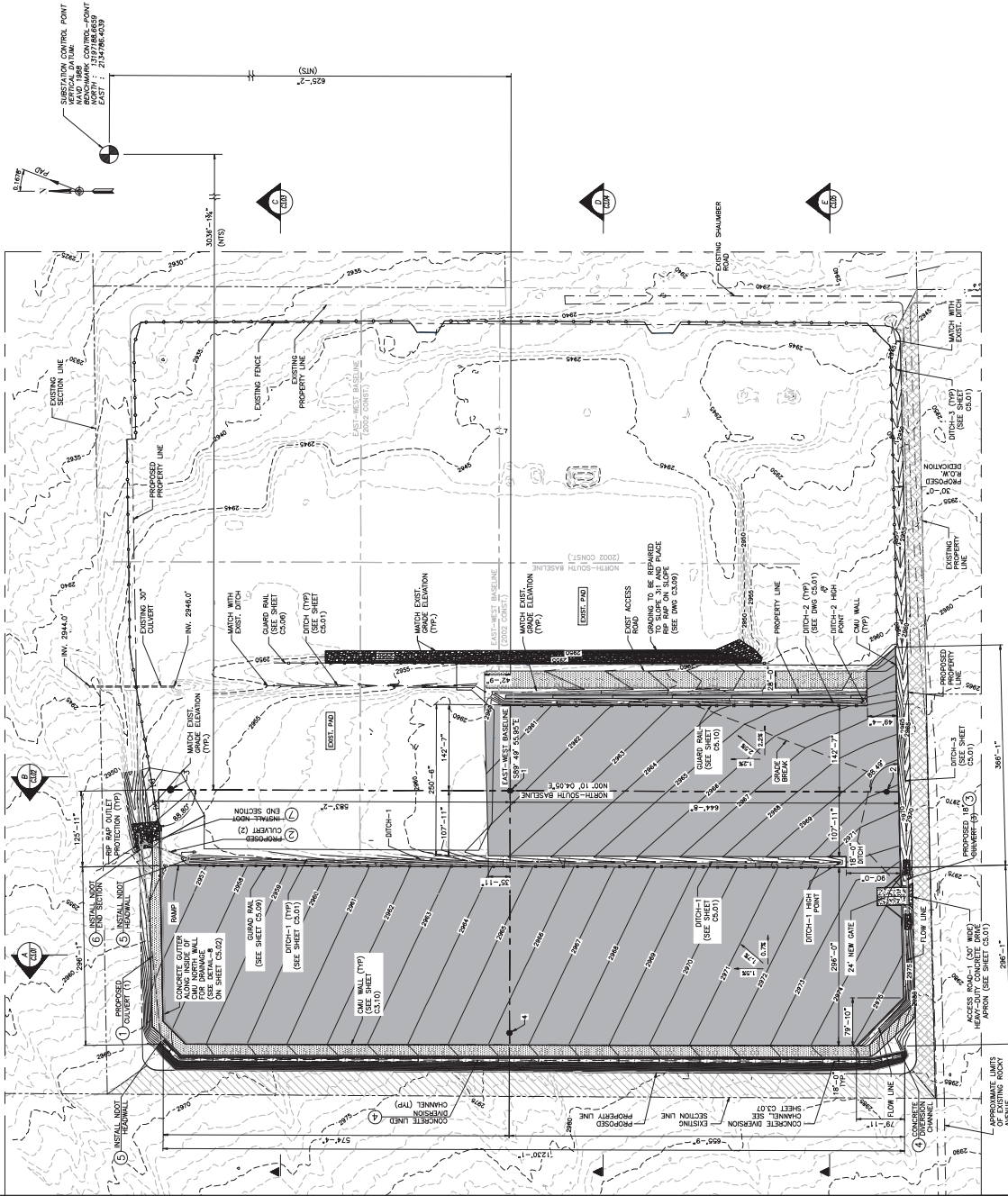


LEGEND	
	SECTION LINE
	EXISTING PROPERTY LINE
	PROPOSED PROPERTY LINE
	EXIST FENCE (TO BE REMOVED)
	EXIST FENCE TO REMAIN
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EDGE OF P40
	EDGE OF EXISTING ROAD



NORTHWEST SUBSTATION	REV. NO.	2	2
	C2.02		
OVERALL GRADING PLAN	LAS VEGAS		
	24-0046		

SHT. NO.	C2.02	2	2
		OF	
	LAS VEGAS		
	24-0046		



SECTION - A

ISSUE FOR PERMIT
NOT FOR CONSTRUCTION

24-0046

05/16/2024

24-0046

05/16/2024

24-0046

05/16/2024

24-0046

05/16/2024

SECTION - A

ISSUE FOR PERMIT
NOT FOR CONSTRUCTION

24-0046

05/16/2024

24-0046

05/16/2024

24-0046

05/16/2024

24-0046

05/16/2024

SECTION - A

ISSUE FOR PERMIT
NOT FOR CONSTRUCTION

24-0046

05/16/2024

24-0046

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24-0046

05/16/2024

SECTION - A

ISSUE FOR PERMIT
NOT FOR CONSTRUCTION

24-0046

05/16/2024

24-0046

05/16/2024

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05/16/2024

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05/16/2024

SECTION - A

ISSUE FOR PERMIT
NOT FOR CONSTRUCTION

24-0046

05/16/2024

24-0046

05/16/2024

24-0046

05/16/2024

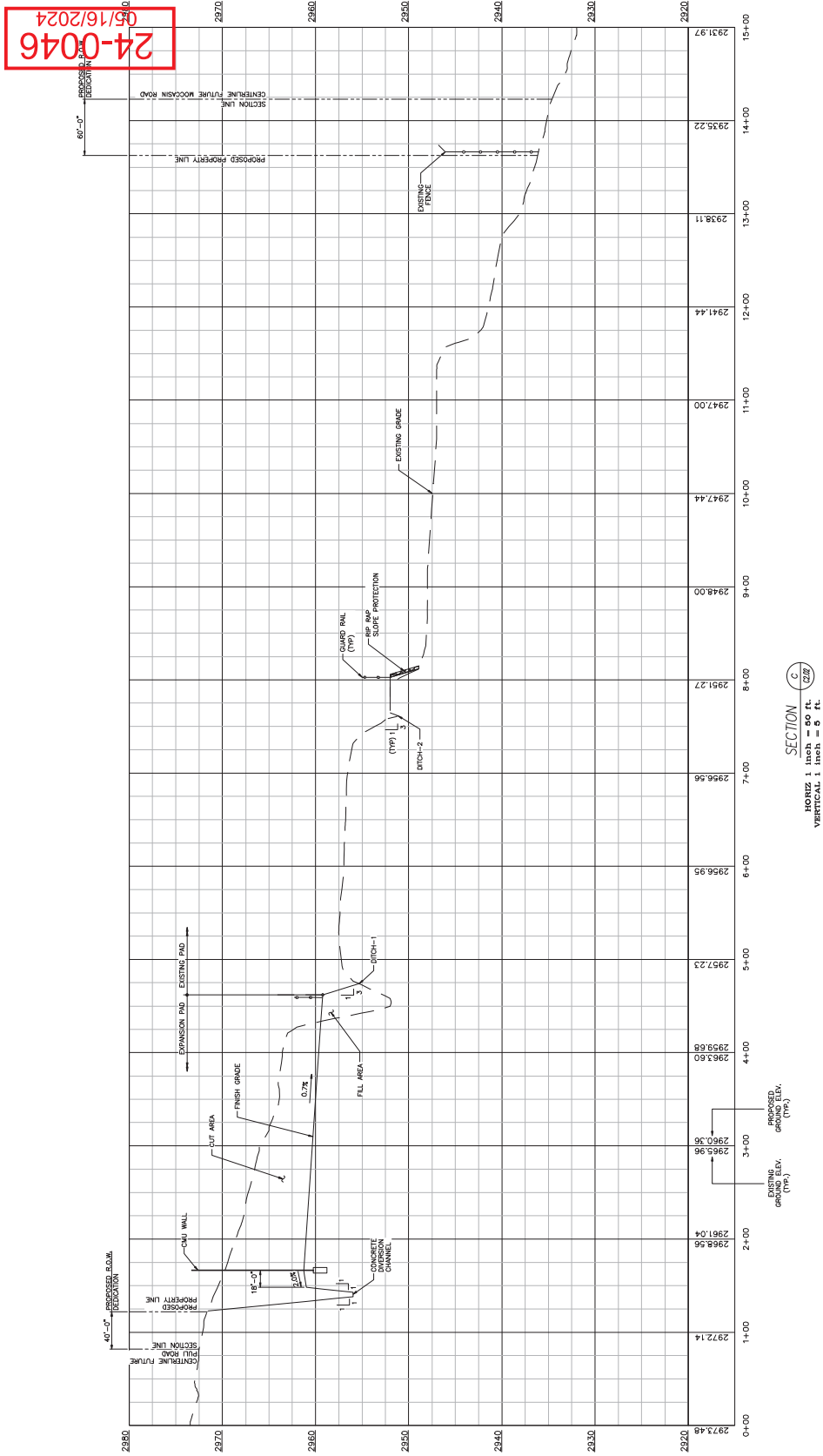
24-0046

05/16/2024

SECTION - C

NORTHWEST SUBSTATION

REV	DATE	#REV	APPROVAL	Proj ID
▽				
▽				
▽				

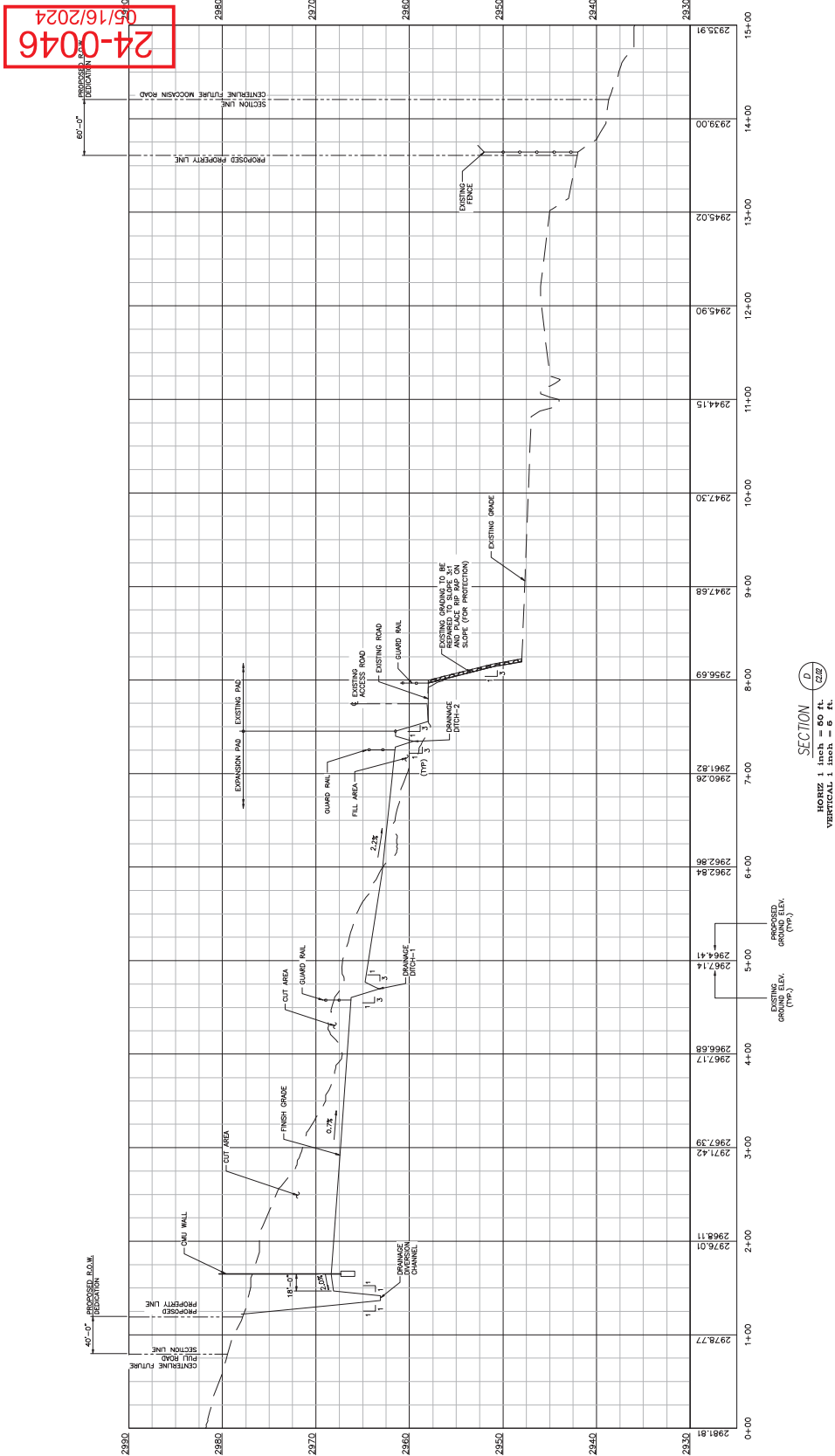


SECTION		C
HORIZ	1 inch = 50 ft.	62.00
VERTICAL	1 inch = 5 ft.	

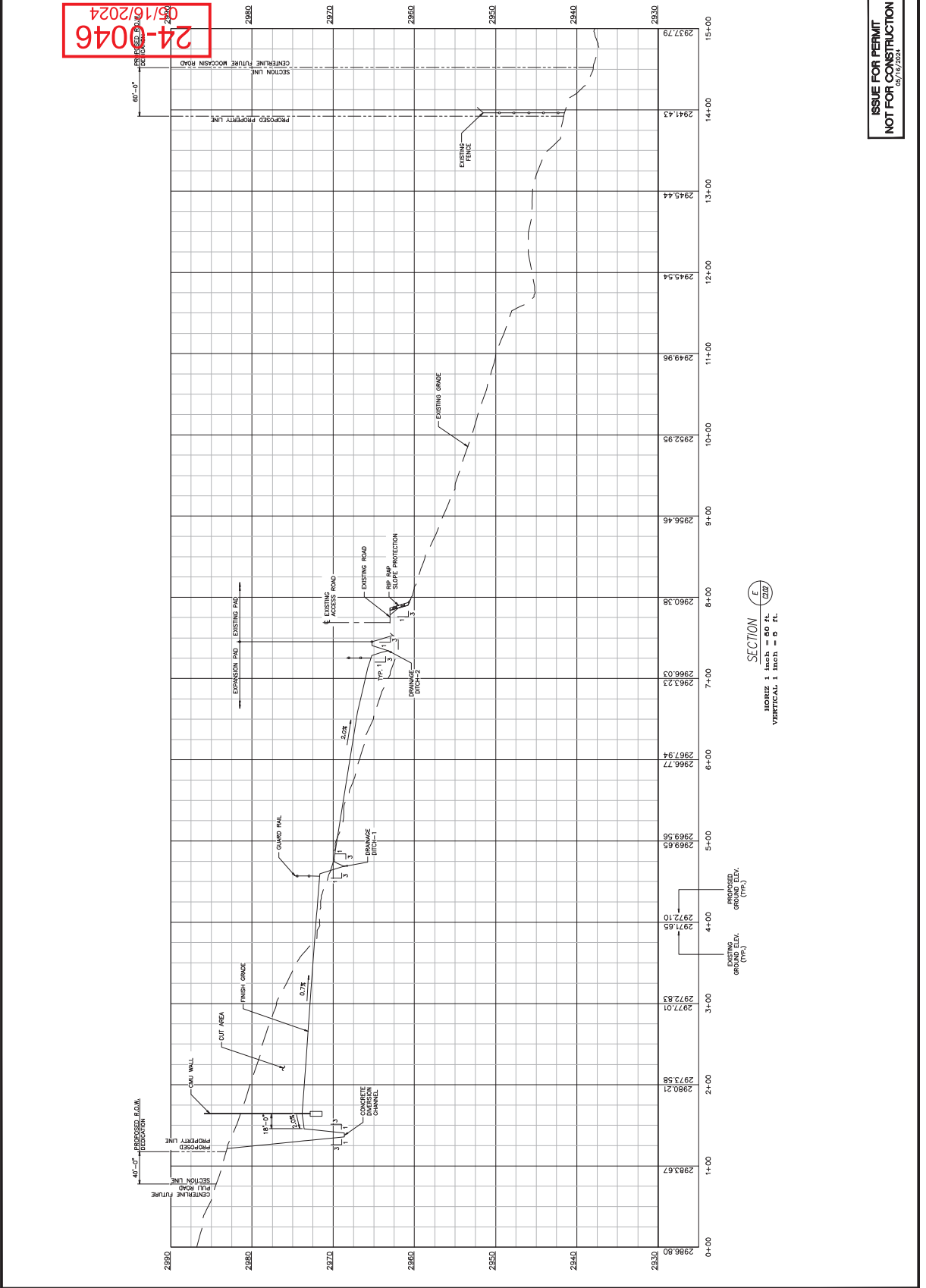
SECTION - D



REV	DATE	REV	APPROVAL	Proj ID	REVISIONS



ATT. NO. C3.05¹⁰
5 of



PROJ. NO. 431.130
DATE 05/16/2024
DESIGNED BY JH
CHECKED BY JH
IN CHARGE JH

ISSUED FOR: ☒ REVIEW ☐ BID ☐ CONSTRUCTION

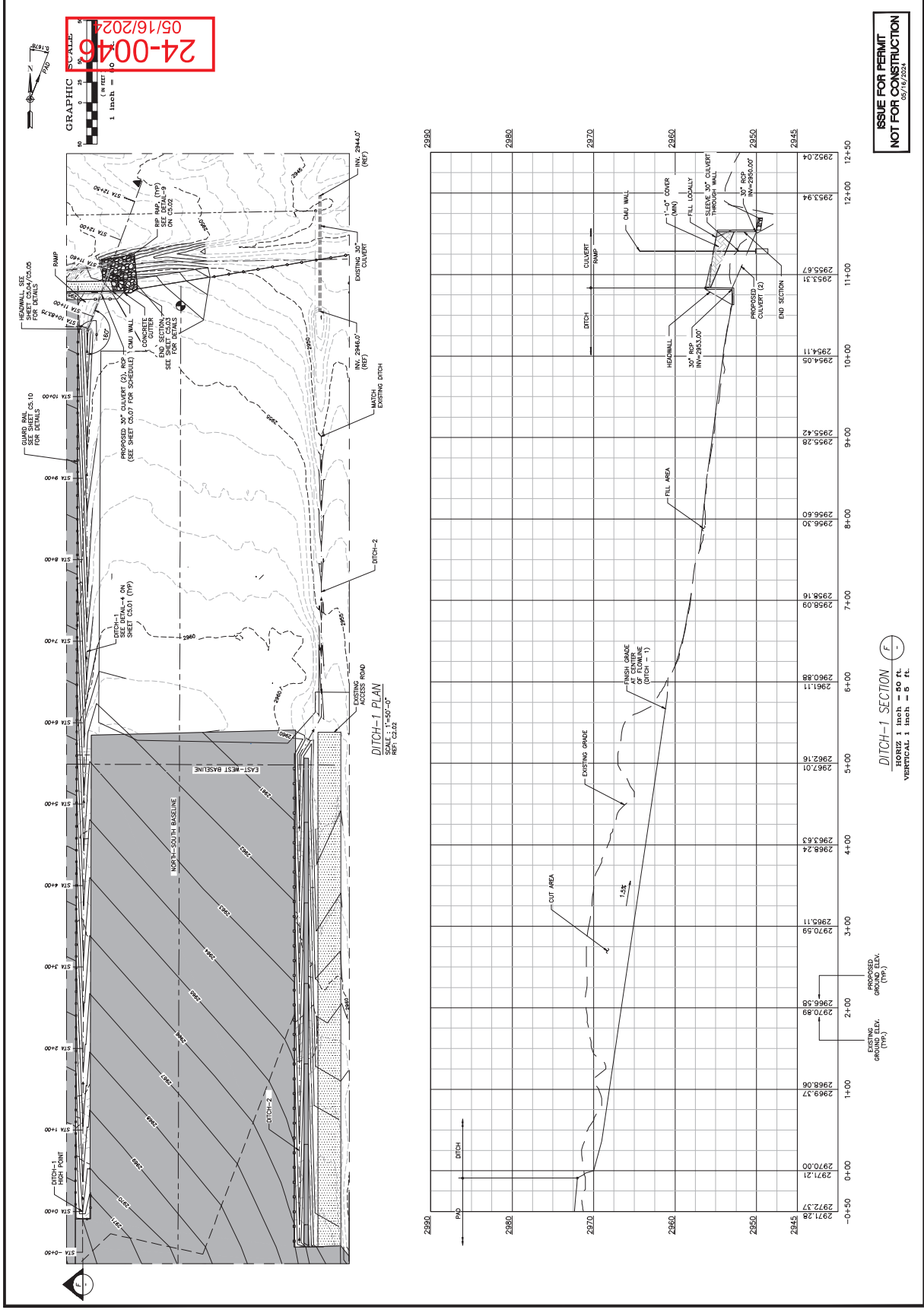
BY *[Signature]* **DATE** **REV** **APP**

REVISIONS

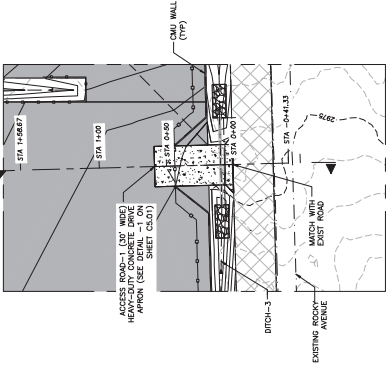
NO.	DATE	DESCRIPTION
1	05/16/2024	ISSUED FOR CONSTRUCTION

PROJ. NO. 431.130
DATE 05/16/2024
DESIGNED BY JH
CHECKED BY JH
IN CHARGE JH

ISSUED FOR: ☒ REVIEW ☐ BID ☐ CONSTRUCTION



SHOT. NO. **C3.09**
9 OF 10
LAS VEGAS
24-0046

24-00046
LEADS FILE[illegible]

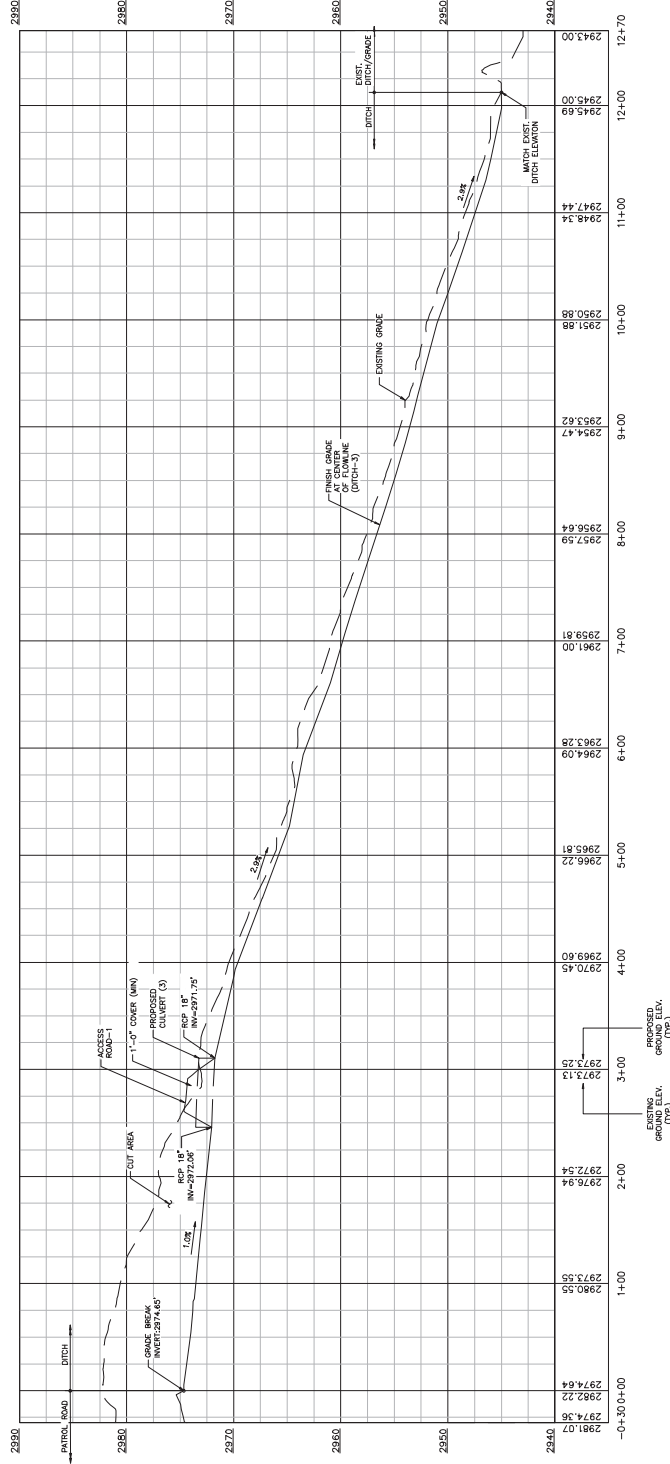
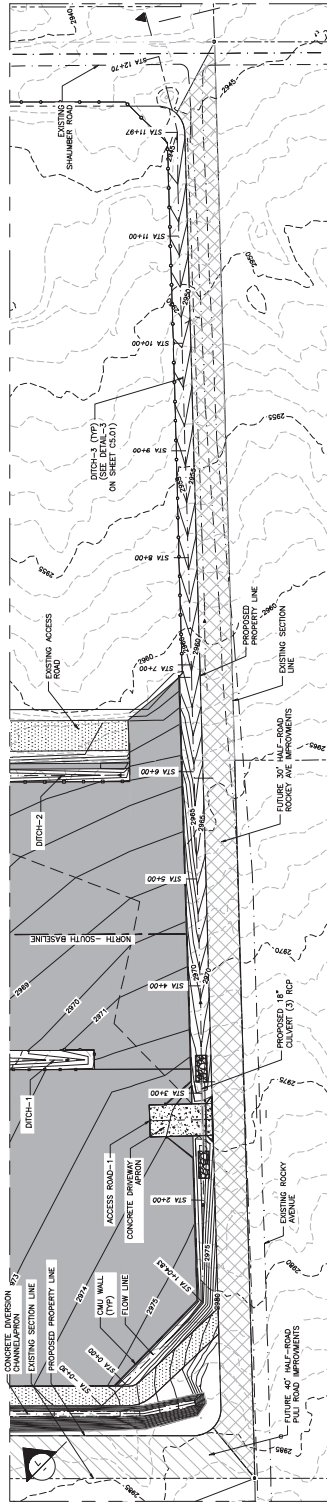
HORIZ	1 inch	= 40 ft.
VERTICAL	1 inch	= 4 ft.

BY	DATE	REV	APPROVAL	APPROVAL	Proj ID

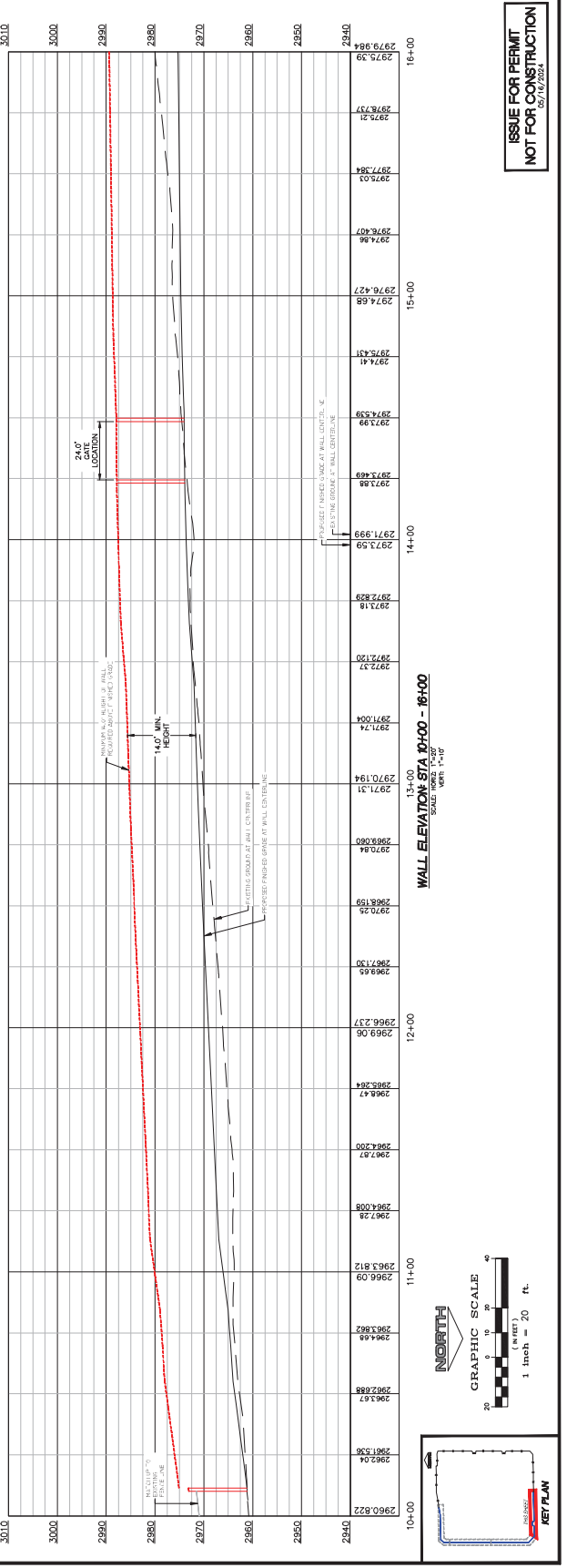
NORTHWEST SUBSTATION

SHT. NO.	C3.10	10 OF 10	LAS VEGAS	24-0046
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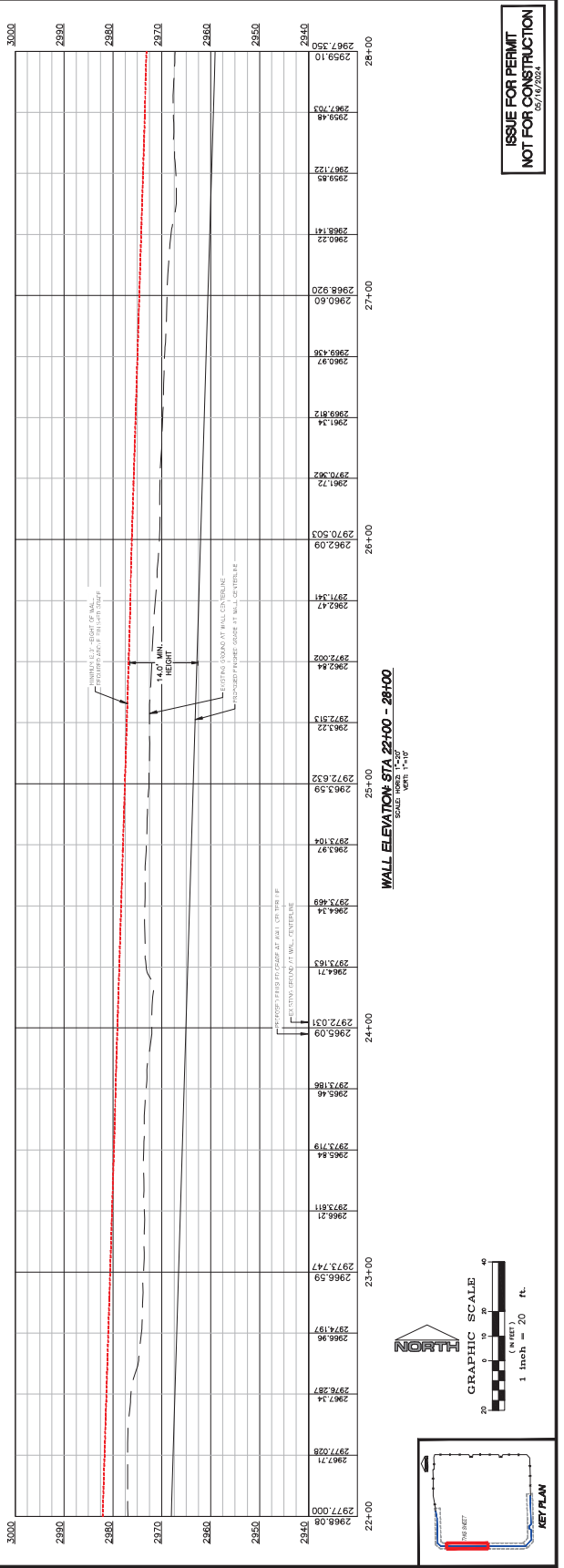
ISSUE FOR PERMIT
NOT FOR CONSTRUCTION
05/16/2024



DITCH-3 SECTION		L
HORIZ	1 inch = 50 ft.	-
VERTICAL	1 inch = 5 ft.	



NORTHWEST SUBSTATION	SHEET NO. 4	C4.04 OF 5	LAS VEGAS
			24-0046
OVERALL WALL WALL SECTION: STA 22+00 - 28+00			



NORTHWEST SUBSTATION	SHT. NO.	C5.02
		2 of 10
		LAS VEGAS
DETAIL - 8 TO 11		24-0046

24-0046
05/16/2024



TYPICAL CONCRETE CURB/GUTTER DETAIL

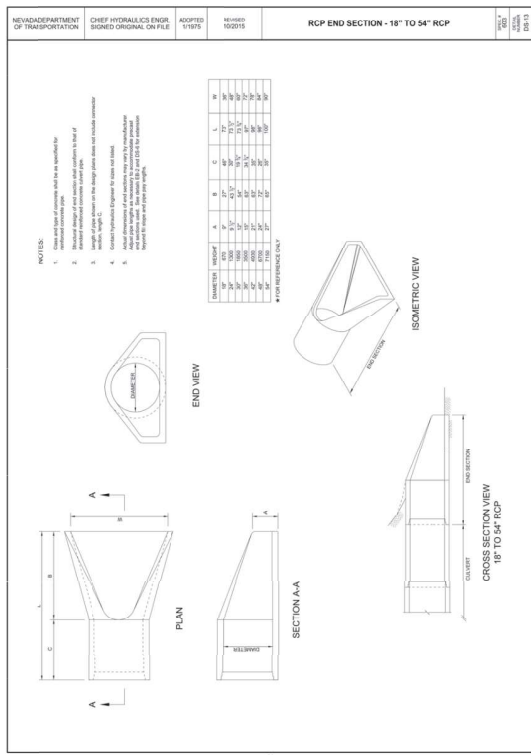
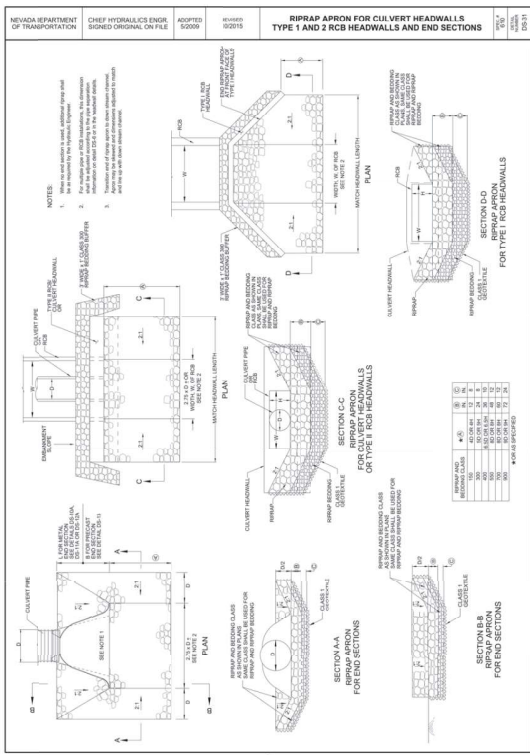


PLUG MARKER DETAIL



SCALE: NTS

- NOTES:**
1. RIPRAP SHALL MEET THE REQUIREMENTS OF SECTION 719, NDOT, STANDARD SPECIFICATIONS, M2014.
 2. RIPRAP SHALL BE CLASS 300 (0" DIA) PER NDOT STANDARD SPECIFICATIONS, SECTION 719.03.01.
 3. MINIMUM THICKNESS OF RIPRAP APRONS SHALL BE 2'-0".
 4. GEOTEXTILE SHALL BE NON-WOVEN OR APPROVED EQUAL.



24-0046

4

C504

of

10

ISSUE FOR PERMIT

05/16/2024

NORTHWEST SUBSTATION

CULVERT HEADWALLS

NDOT STANDARD DETAIL

PROJ. NO. 431.130

DESIGN 05/16/2024

DATE 05/16/2024

BY 15/20

REV 15/20

APPROVAL

REVISIONS

CONSTRUCTION

REVIEW

ISSUED FOR

DESIGNED FOR

PROJ. NO. 431.130

DESIGN 05/16/2024

DATE 05/16/2024

BY 15/20

REV 15/20

APPROVAL

REVISIONS

24-0046

4

C504

of

10

ISSUE FOR PERMIT

05/16/2024

CULVERT HEADWALLS
42" TO 72" RCP AND 42" TO 60" HDPE

PLAN

ELEVATION
DOUBLE RCP/HOPE
0° TO 45° SKEW

SECTION

ELEVATION
SINGLE RCP/HOPE
15° TO 45° SKEW

CULVERT HEADWALLS
42" TO 72" RCP AND 42" TO 60" HDPE

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL

QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS

CULVERT HEADWALLS
12" TO 36" RCP / HDPE

PLAN

ELEVATION
DOUBLE RCP/HOPE

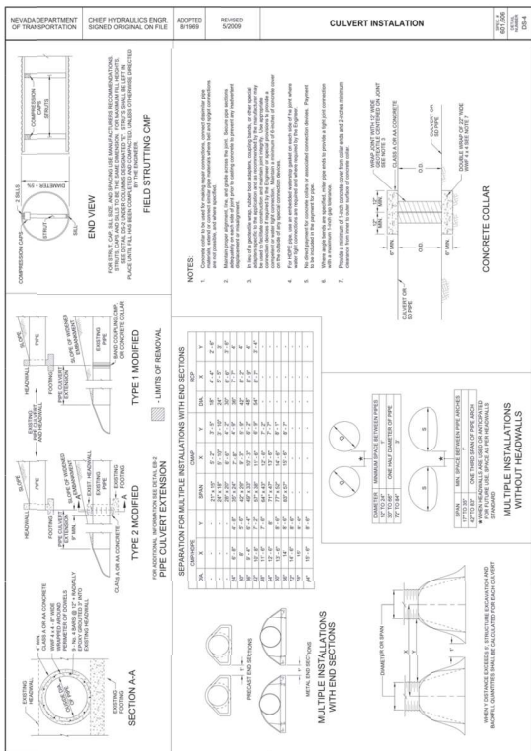
SECTION

ELEVATION
SINGLE RCP/HOPE
15° TO 45° SKEW

CULVERT HEADWALLS
12" TO 36" RCP / HDPE

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL

QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS

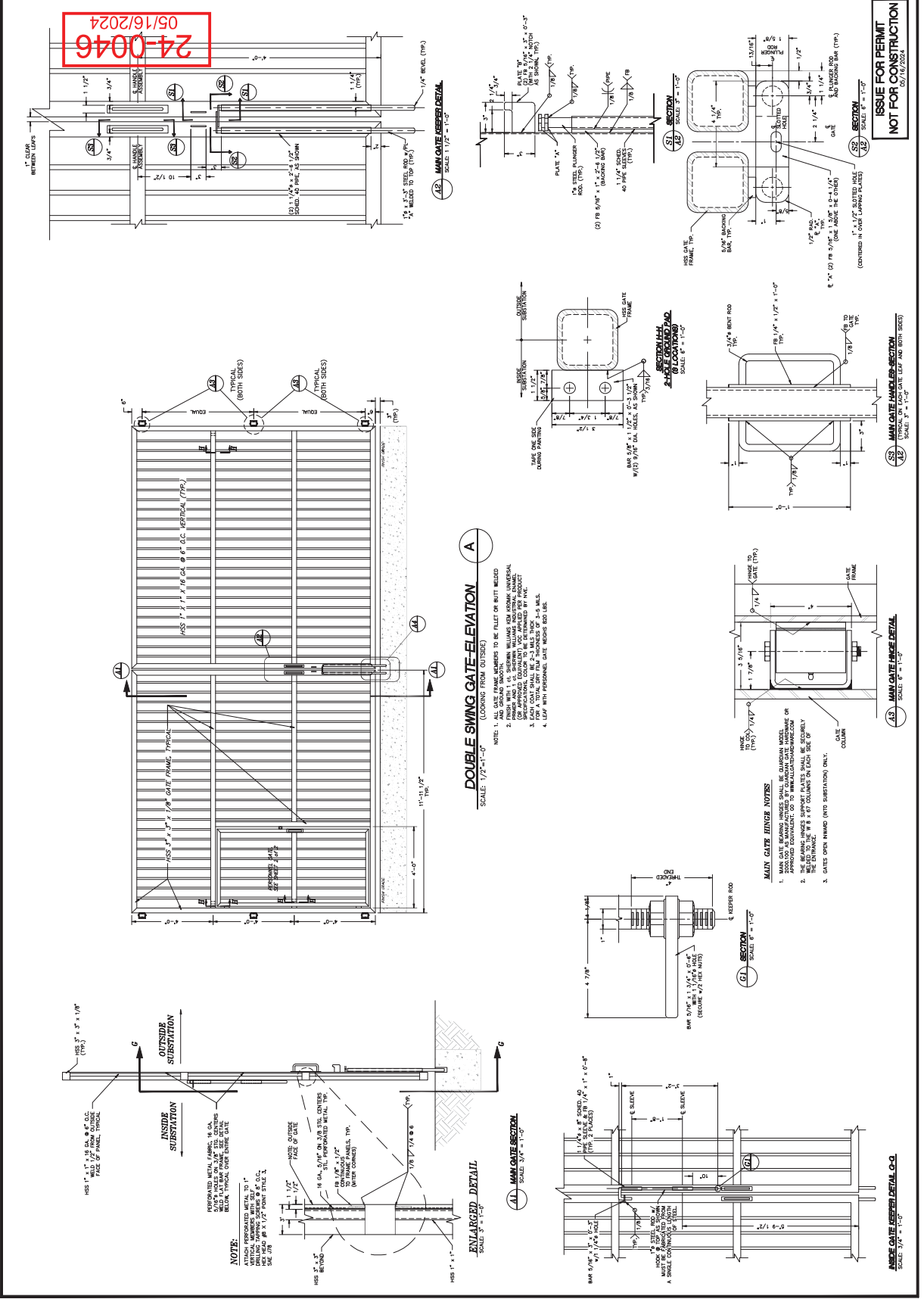


SHT. NO. **C5.08**
8 OF 10
LAS VEGAS

S3 MAIN GATE HANDLE SECTION

D

SCALE: $3/4" = 1'-0"$



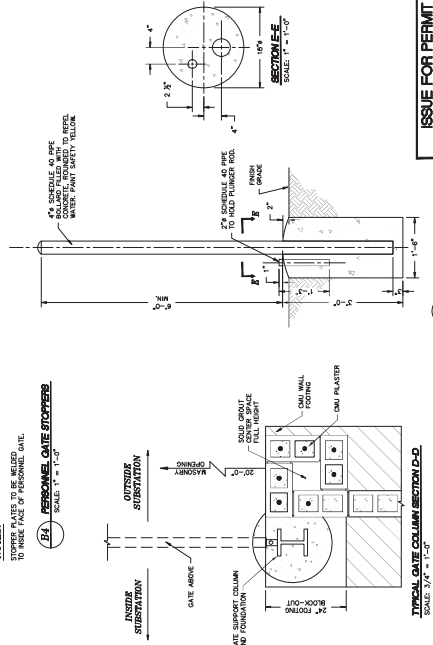
NORTHWEST SUBSTATION

SHT. NO. **C5.09**
9 of 10
LAS VEGAS

24-0046

**ISSUE FOR PERMIT
NOT FOR CONSTRUCTION**
05/16/2024

C2 OPEN GATE STOP
SCALE: 3/4" = 1'-0"

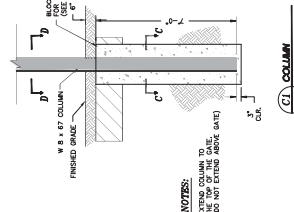


NOTES:
STOPPER PLATES TO BE WELDED
TO INSIDE FACE OF PERSONNEL GATE.

B4 PERSONNEL GATE STOPPERS
SCALE: 1" = 1'-0"

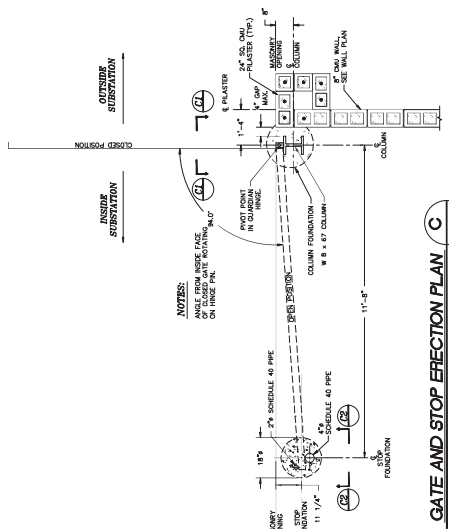


SECTION C-C
SCALE: 3/4" = 1'-0"

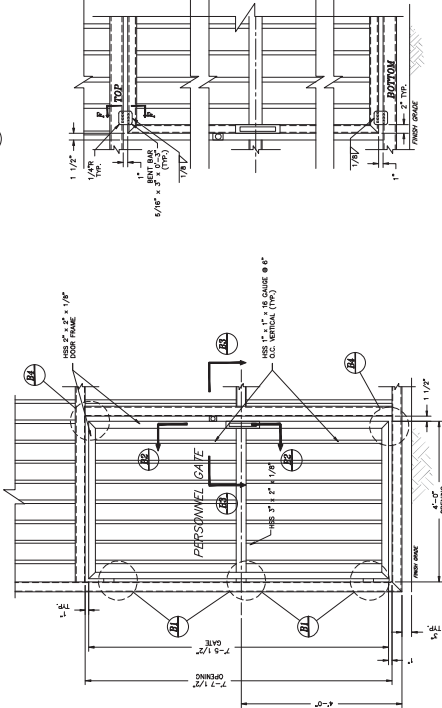


NOTES:

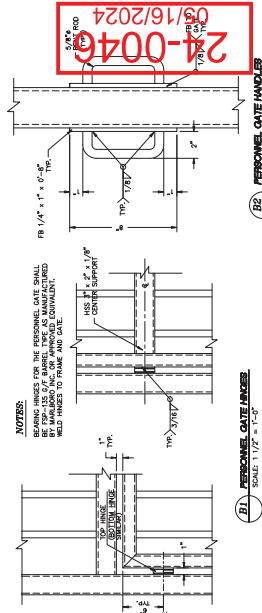
1 COLUMN
SCALE: 3/8" = 1'-0"



GATE AND STOP ERECTION PLAN
SCALE: 1/2"=1'-0"



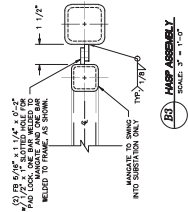
PERSONNEL GATE B
LOOKING FROM OUTSIDE)



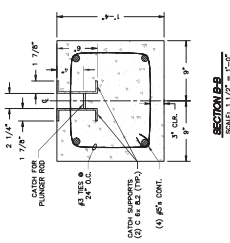
NOTES:

B2 PERSONNEL GATE HANDLER

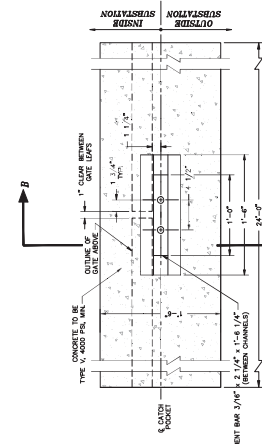
SECTION F-F
SCALE 3" = 1'-0"



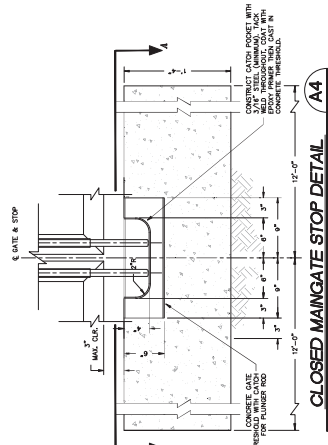
B3 HASP ASSEMBLY



SECTION B-B
SCALE: 1 1/2" = 1'-0"

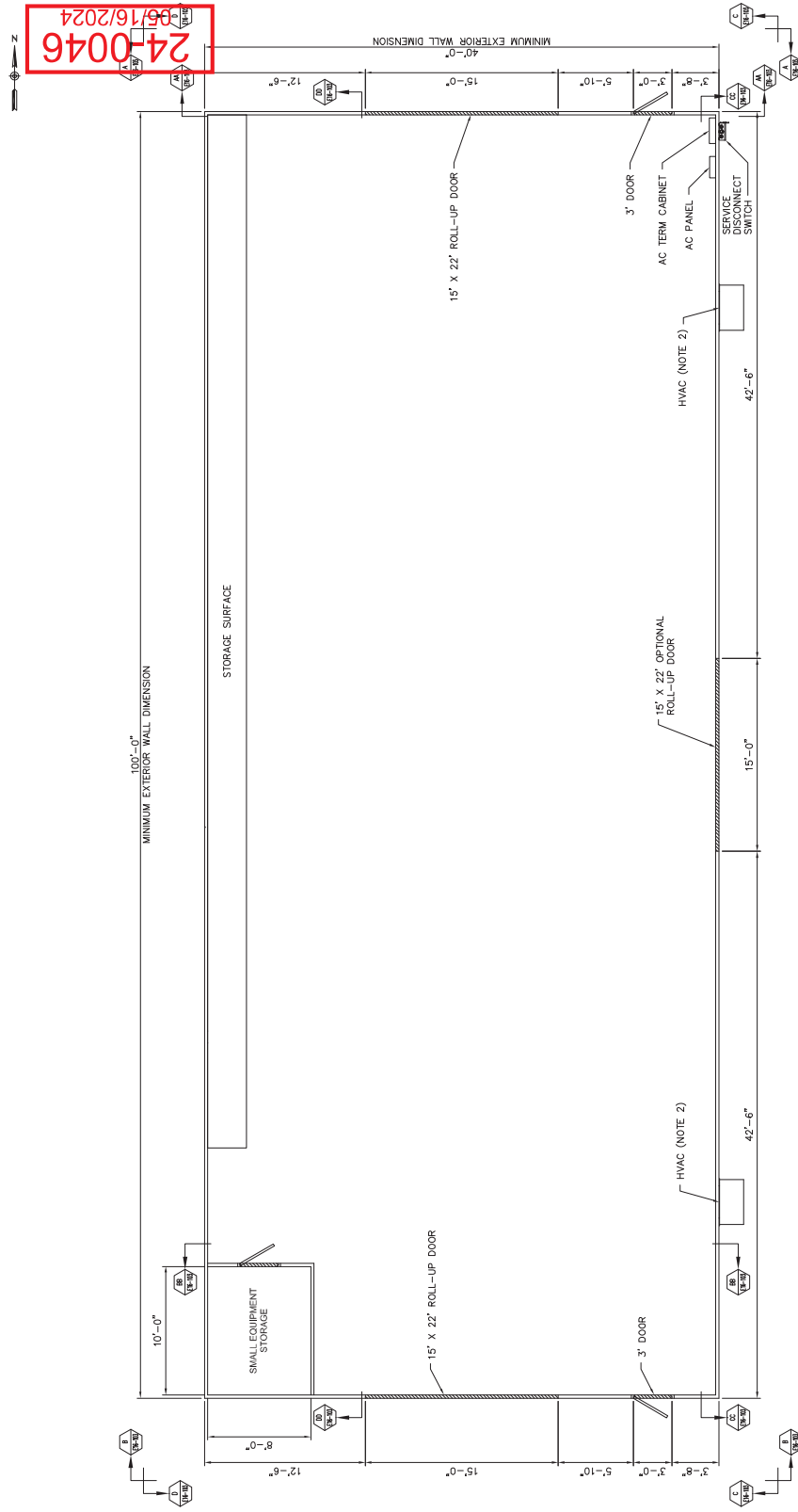


GATE STOP PLAN - SECTION A-A



CLOSED MAINGATE STOP DETAIL

 6226 WEST SUNDAY AVE. LAKESIDE, NEVADA 89101 TEL: 702.735.1100 FAX: 702.735.1101 WWW.INVENEX.COM		DRG. NO. 451130 SHEET NO. 001 OF 019227	
DATE	09/04/2024	AC	09/04/2024
ISSUED	09/04/2024	BY	09/04/2024
			
REV	DATE	BY	APPROVAL
REVISIONS			
Proj ID			



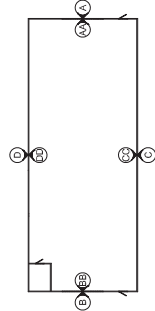
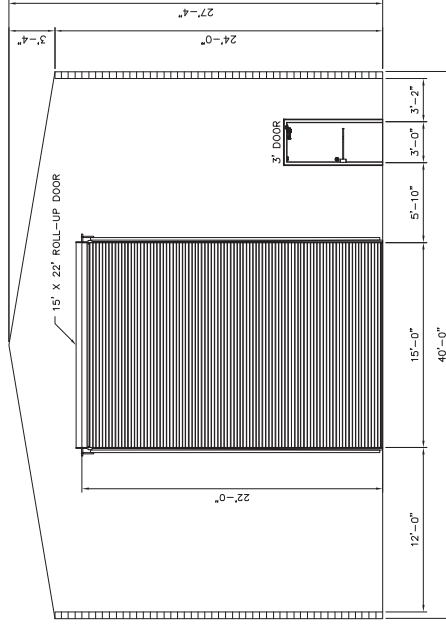
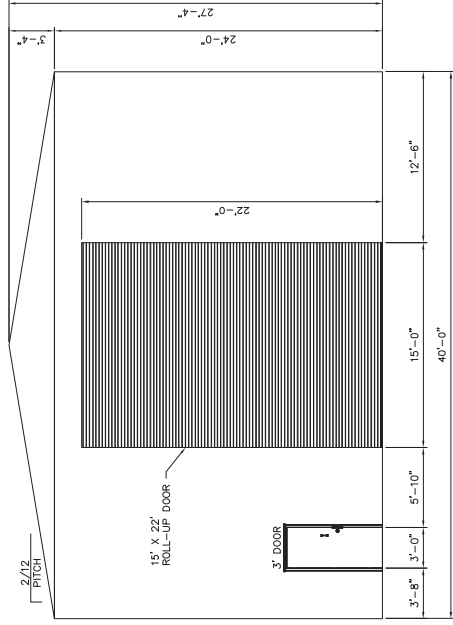
STORAGE ENCLOSURE - PLAN VIEW

REFERENCE

[illegible]

NOTES:

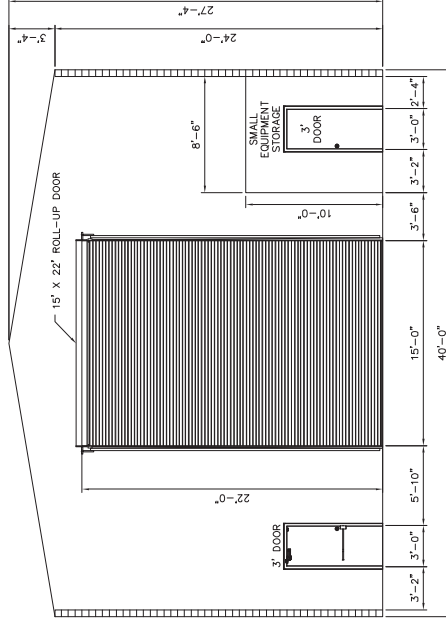
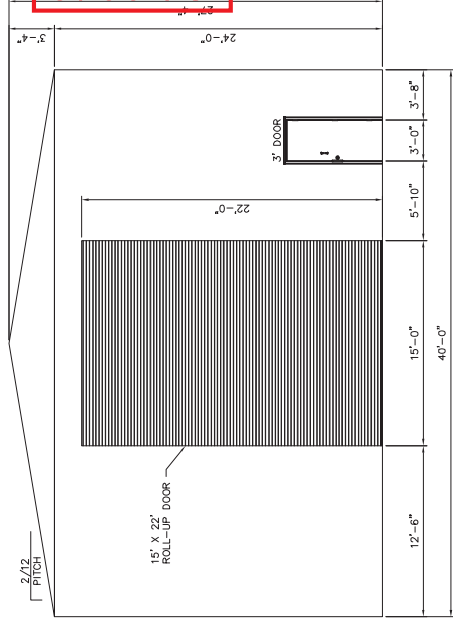
1. EXTERIOR ENCLOSURE COLOR SHALL BE DESERT BROWN (ALPACA 3216).
2. HVAC UNIT LOCATION AND QUANTITY TO BE DETERMINED.



ELEVATION LEGEND


NOTES:

- NOTES:
1. ASSUMES 6" EXTERIOR WALL THICKNESS.
 2. TOTAL HEIGHT IS PRELIMINARY AND DEPENDS ON FINAL CALCULATIONS. TOTAL HEIGHT MAY BE UP TO 31 FEET TALL.



REFERENCE

[illegible][illegible]

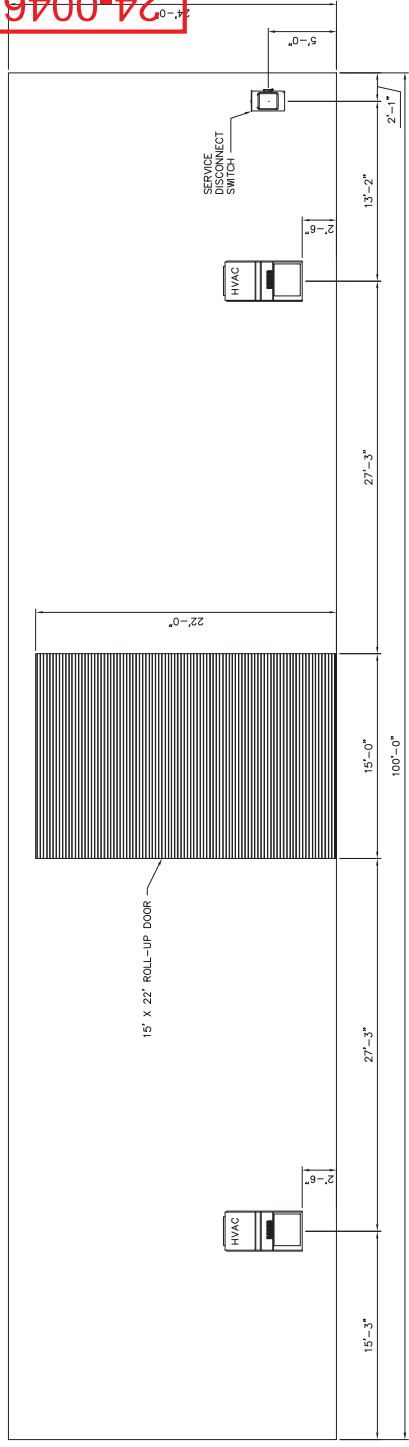


6220 WEST SAVANA AVE.
LAS VEGAS, NEVADA 89146

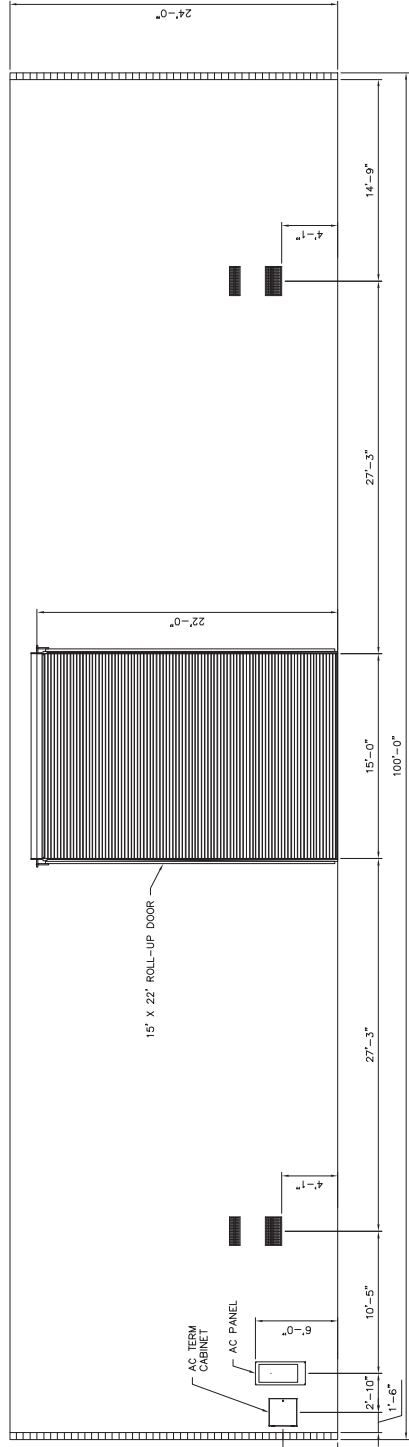
**NORTHWEST 500'230/138'12KV SUBSTATION
STORAGE ENCLOSURE
ELEVATIONS A & B & SECTIONS AA & BB**

NO. 431-130	E16-103	SHT. NO.	1	OF	3
NO. TSD07/2525	SCALE: 1/4"=1'-0"				

24-0046
05/16/2024



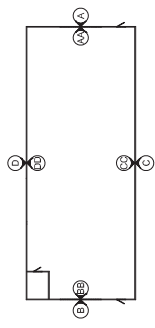
ELEVATION C
101



SECTION CC
101

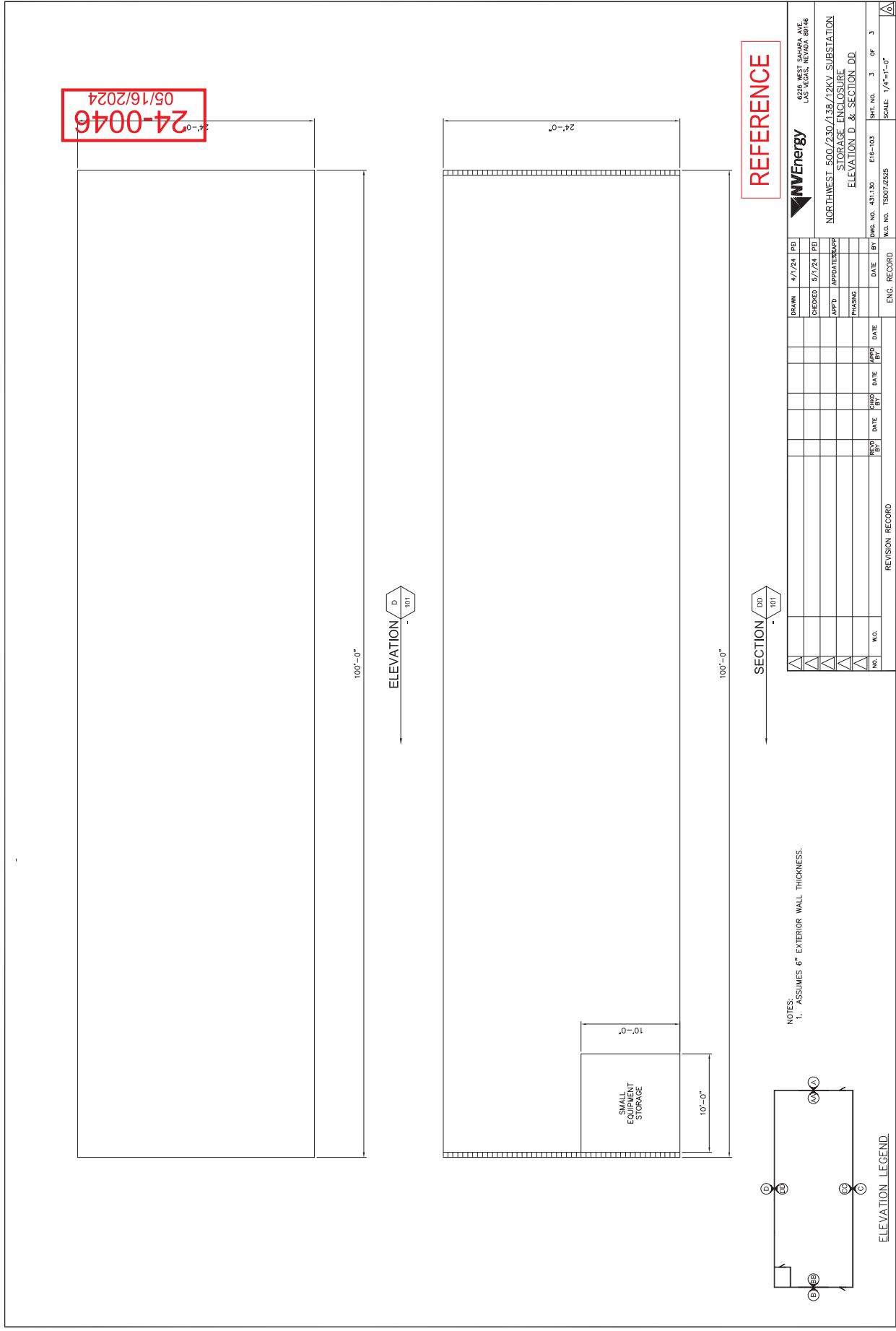
REFERENCE

NOTES:
1. ASSUMES 6" EXTERIOR WALL THICKNESS.



ELEVATION LEGEND

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PROTECTION

BALLISTIC / BLAST / BREAK-IN

24-0046
05/16/2024

NORTHWEST SUBSTATION WALL

PROPOSED - 14' HIGH SPLIT FACE CONCRETE
PANEL WALL

3B PERIMETER WALL -
#504 - IN GREY (SEE BELOW)



Split Face Block
#504



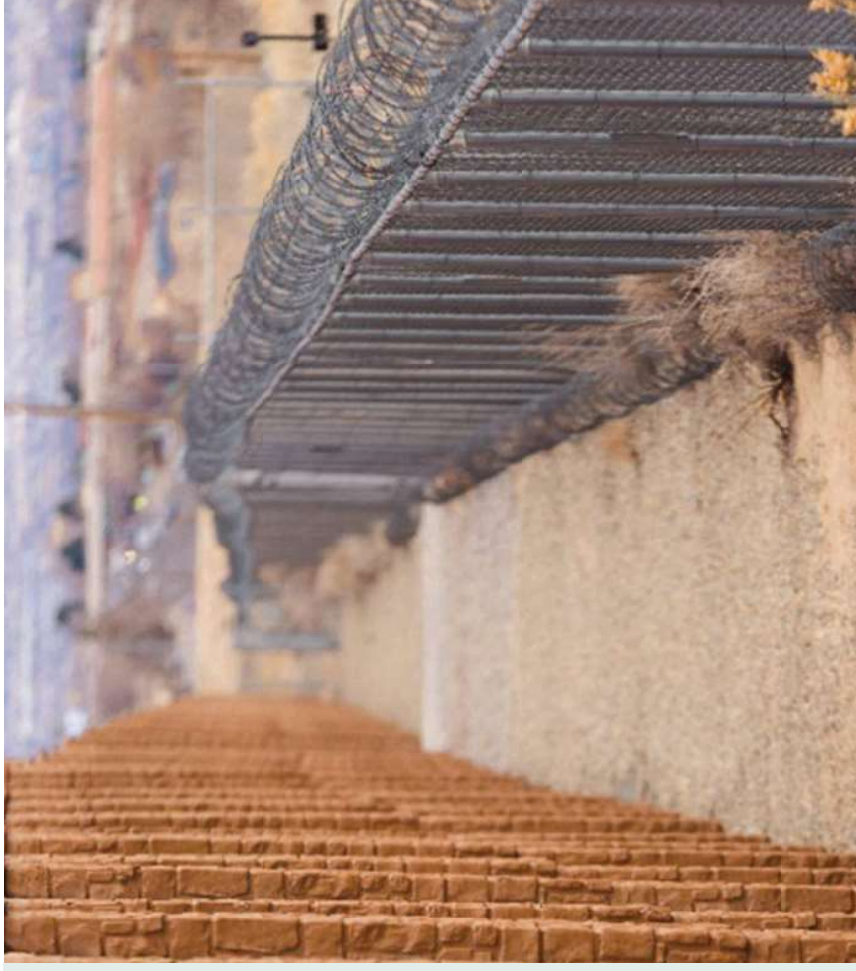
CONTACT INFORMATION

364 CYPRESS DRIVE, STE 102
TEQUESTA, FL 33469

CELL / +1 561.277.9751

EMAIL / INFO@3BPROTECTION.COM

WEB / WWW.3BPROTECTION.COM

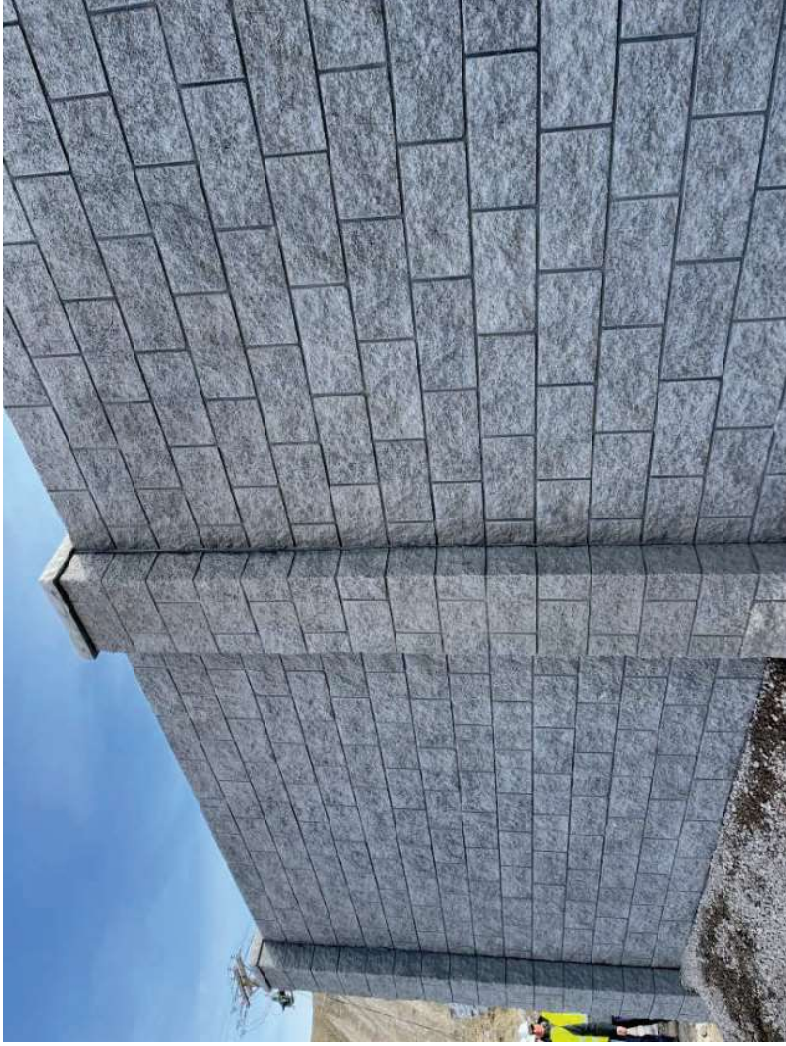


24-0046
05/16/2024

3B BALLISTIC PERIMETER WALL (FINISHES)



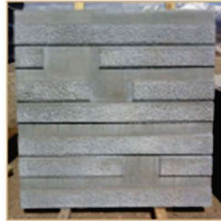
24-0046
05/16/2024



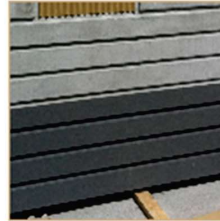
3B BALLISTIC PERIMETER WALL – FINISH OPTIONS



Summit
Fieldstone Full



Admin DCLS



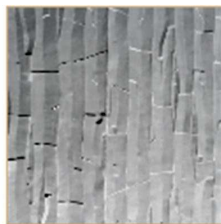
Reveal



Ashlar #509



Ashlar Slate
#512



Basalt #402



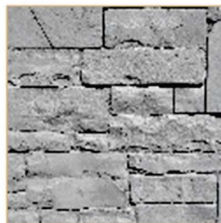
Castle Stone
#507



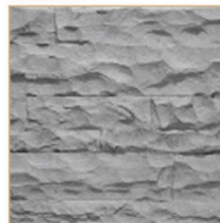
Cobble #508



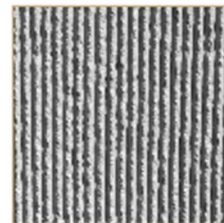
Dry Stack #516



Durango DryFit
#512



Fractured
Canyon Stone
#518



Fractured Fin
#518



Glasgow Brick
#519



Granite Templar
#513



Italian Brick
(Mattone)



Italian
Corrugated

24-0046
05/16/2024

3B PERIMETER WALL - #504 - IN A GREY COLOR (SEE BELOW)



3B BALLISTIC PERIMETER WALL – FINISH OPTIONS



Italian Fluted
(Scanalato)



Lava Rock



Ledgestone
#510



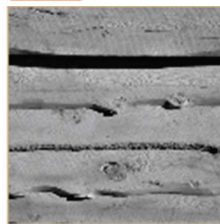
Limestone
#526



Ozark Ashlar
#522



Renaissance



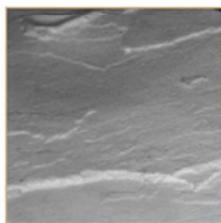
Rustic Shiplap
#605



Rustico (Rustic
Brick & Stone)



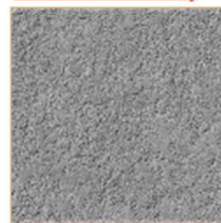
Sierra DryFit
#511



Slate Trim Stone
#401



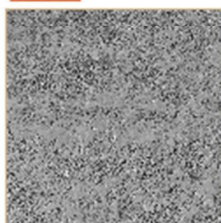
Split Face Block
#504



Stucco #514
(fine)



Stucco #515
(Rough)



Stucco #524
(Rough)



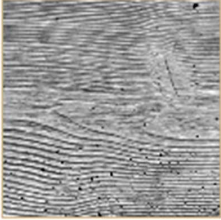
Summit
Fieldstone
#608



Waterford Brick
#523

24-0046
05/16/2024

3B BALLISTIC PERIMETER WALL – FINISH OPTIONS



Wood Shiplap
#525

24-0046
05/16/2024



PROTECTION

BALLISTIC / BLAST / BREAK-IN

24-0046
05/16/2024

NORTHWEST SUBSTATION WALL

PROPOSED - 14' HIGH SPLIT FACE CONCRETE
PANEL WALL

3B PERIMETER WALL -
#504 - IN GREY (SEE BELOW)



Split Face Block
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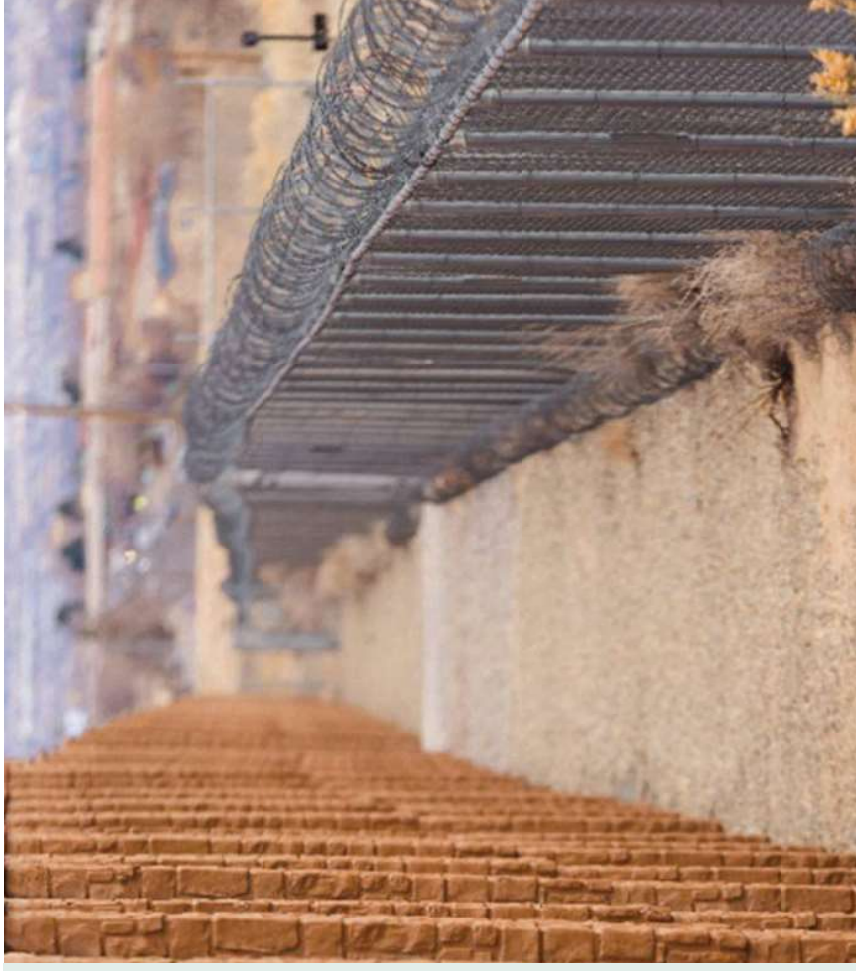
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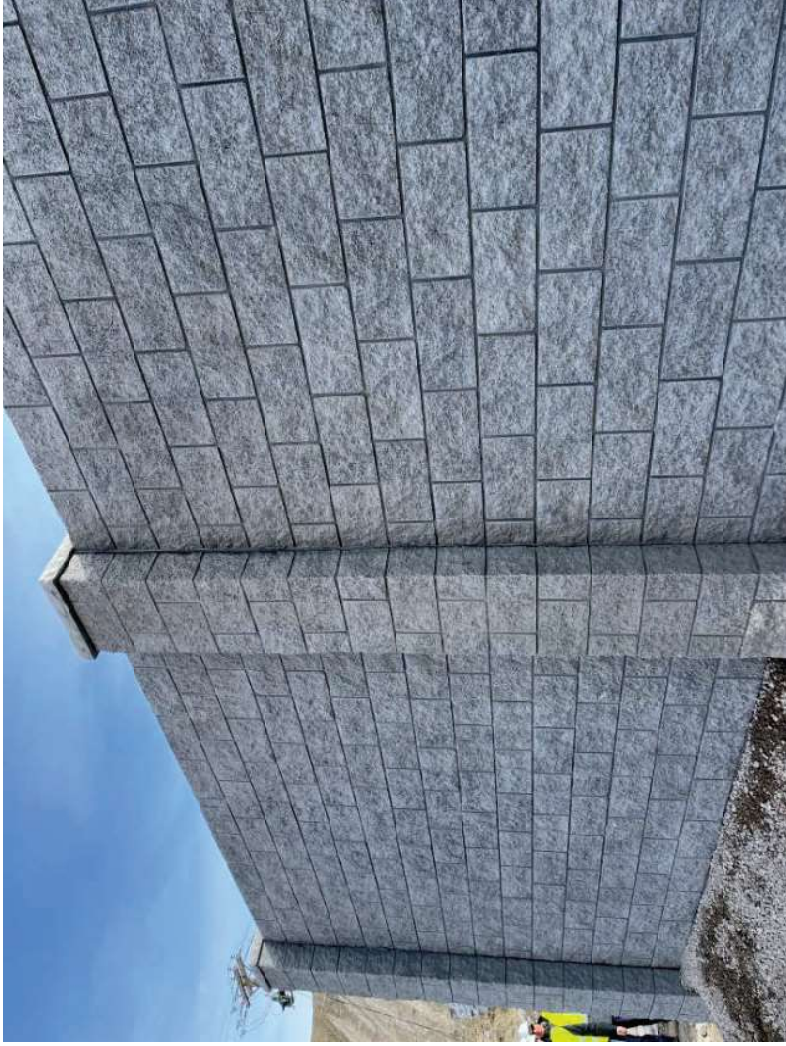


24-0046
05/16/2024

3B BALLISTIC PERIMETER WALL (FINISHES)



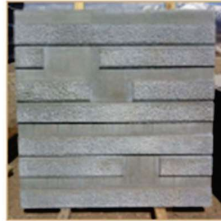
24-0046
05/16/2024



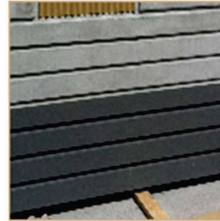
3B BALLISTIC PERIMETER WALL – FINISH OPTIONS



Summit
Fieldstone Full



Admin DCLS



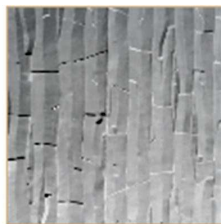
Reveal



Ashlar #509



Ashlar Slate
#512



Basalt #402



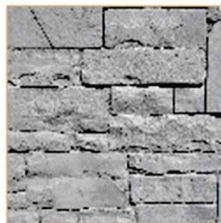
Castle Stone
#507



Cobble #508



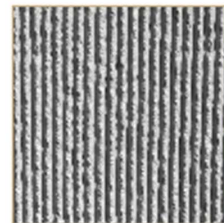
Dry Stack #516



Durango DryFit
#512



Fractured
Canyon Stone
#518



Fractured Fin
#518



Glasgow Brick
#519



Granite Templar
#513



Italian Brick
(Mattone)



Italian
Corrugated

24-0046
05/16/2024

3B PERIMETER WALL - #504 - IN A GREY COLOR (SEE BELOW)



3B BALLISTIC PERIMETER WALL – FINISH OPTIONS



Italian Fluted
(Scanalato)



Lava Rock



Ledgestone
#510



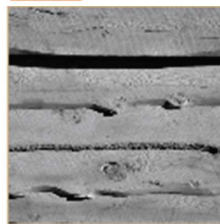
Limestone
#526



Ozark Ashlar
#522



Renaissance



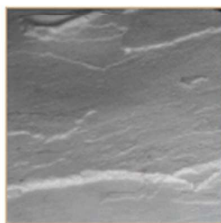
Rustic Shiplap
#605



Rustico (Rustic
Brick & Stone)



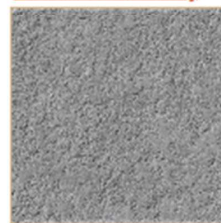
Sierra DryFit
#511



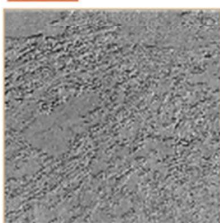
Slate Trim Stone
#401



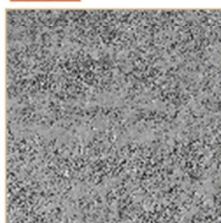
Split Face Block
#504



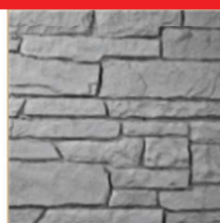
Stucco #514
(fine)



Stucco #515
(Rough)



Stucco #524
(Rough)



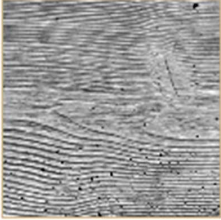
Summit
Fieldstone
#608



Waterford Brick
#523

24-0046
05/16/2024

3B BALLISTIC PERIMETER WALL – FINISH OPTIONS



Wood Shiplap
#525

24-0046
05/16/2024