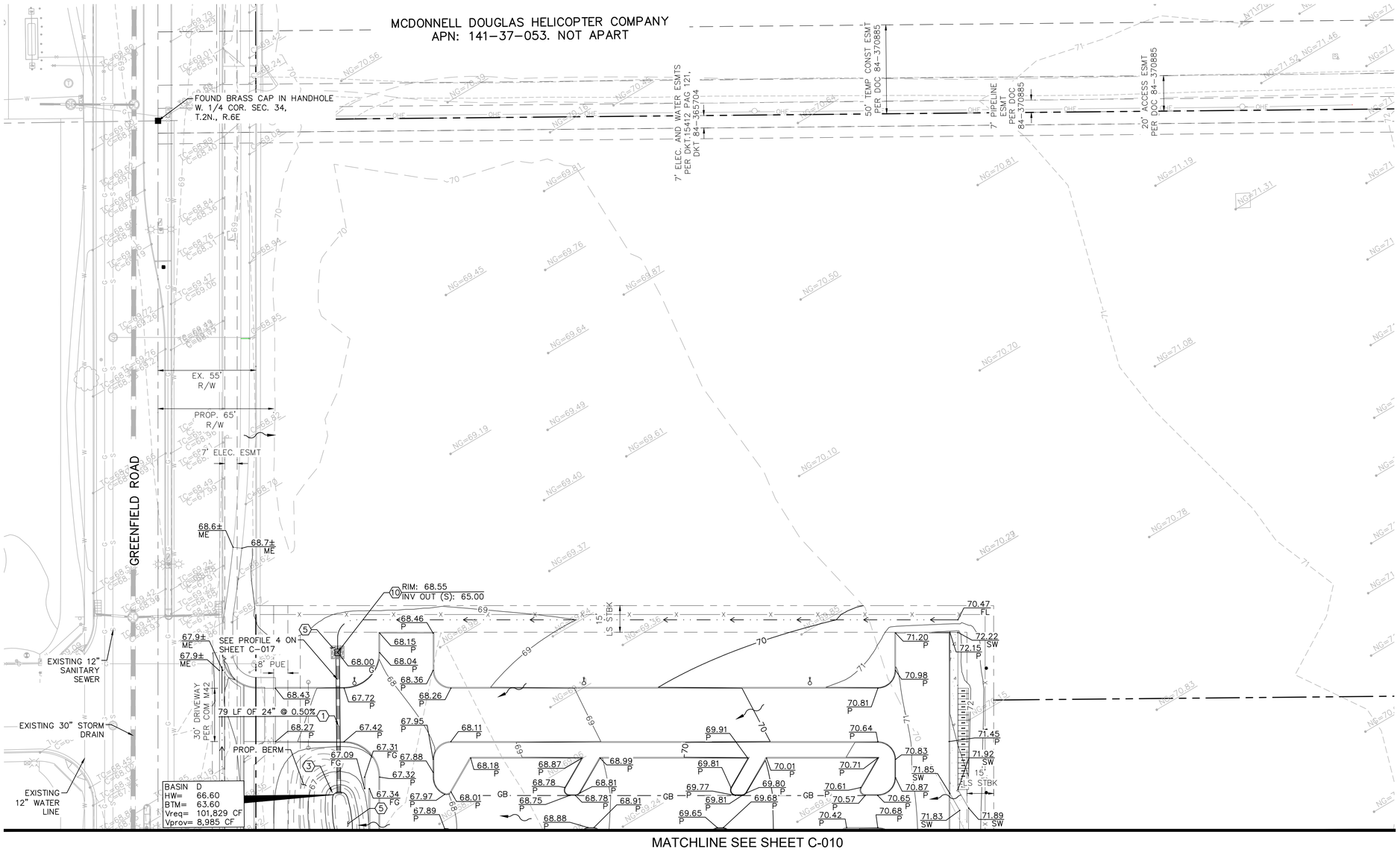



MATCHLINE SEE SHEET C-010

## GRADING LEGEND

- PROPERTY LINE
- EXISTING EASEMENT LINE
- PROPOSED SAW CUT
- HP — PROPOSED HIGH POINT
- LP — PROPOSED LOW POINT
- GB — PROPOSED GRADE BREAK
- PROPOSED STORM DRAIN PIPE
- 81 — EXISTING CONTOUR
- PROPOSED CATCH BASIN PER M.A.G. STANDARD DETAIL 534
- PROPOSED FLOW ARROW
- 07.10 P — PROPOSED PAVEMENT SPOT ELEVATION
- 05.72 G — PROPOSED CATCH BASIN GRATE ELEVATION
- TC=07.06 P=06.62 — EXISTING ELEVATION

## GRADING AND DRAINAGE NOTES

(1) INSTALL HDPE STORM DRAIN EQUALIZER PIPE, BEDDING AND BACKFILL PER MAG SPEC 601. SIZE AND LENGTH PER PLAN.

(3) INSTALL HEADWALL WITH SAFTY RAIL PER MAG STD DET 501 AND PER COM STD DET M-65.

(5) INSTALL RIP RAP SPILLWAY/APRON D50= 6", DEPTH=12".

(10) INSTALL TYPE 'G' CATCH BASIN PER MAG STD DET 537. GRATE SHALL BE SECURED WITH CHAIN.

## RETENTION REQUIRED (DISTURBED AREA ONLY)

ENTIRE SITE

| CLASSIFICATION | AREA | C-VALUE | VOLUME REQUIRED |
|---|---|---|---|
| PAVEMENT/BUILDING | 9.11 AC± (396,655 SF) | 0.95 | 1.82 AC FT± (69,084 CF) |
| LANDSCAPE | 7.63 AC± (332,478 SF) | 0.50 | 0.79 AC FT± (30,477 CF) |
| TOTAL | 16.74 AC± (729,133 SF) | | 2.61 AC FT± (99,561 CF) |

1. ALL RETENTION CALCULATIONS ARE BASED ON A 100-YEAR 2-HOUR RAINFALL RUNOFF OF 2.20 INCHES FROM CITY OF MESA ENGINEERING STANDARDS.
2. RETENTION CALCULATIONS DO NOT INCLUDE RUNOFF FROM HALF-STREET RIGHT OF WAY ALONG GREENFIELD ROAD DUE TO EXISTING PUBLIC STORM DRAINS IN THE STREET.
3. BASIN A, B, C, AND D SHALL BE COMBINED THROUGH THE USE OF AN EQUALIZER PIPE SYSTEM.

## RETENTION PROVIDED (DISTURBED AREA ONLY)

| | VOLUME REQUIRED | VOLUME PROVIDED |
|---|---|---|
| BASIN A+B | | 1.96 AC FT± (85,369 CF) |
| BASIN C+D | | 0.41 AC FT± (18,098 CF) |
| TOTAL | 2.29 AC FT± (99,561 CF) | 2.37 AC FT± (103,467 CF) |

## DRAINAGE STATEMENT

THE PROPOSED BOEING FABRICATION BUILDING WILL RETAIN THE 100-YEAR 2-HOUR STORM IN SURFACE RETENTION BASINS LOCATED ALONG THE PERIMETER OF THE DEVELOPMENT AND BEHIND THE SECURITY FENCE. ALL FOUR SURFACE RETENTION BASINS ARE EQUALIZED. NO RETENTION IS PROPOSED FOR THE HALF-STREETS OF GREENFIELD ROAD.

THE BASINS LOCATED ALONG GREENFIELD ROAD AND BEHIND THE FENCE WILL DISPOSED OF THE STORM WATER THROUGH THE USE OF BLEED OFF PIPE INTO THE CITY OF MESA PUBLIC STORM DRAIN SYSTEM.

## BENCHMARK

FOUND BRASS TAG ON THE TOP OF CURB AT THE SOUTHWEST CURB RETURN AT THE INTERSECTION OF GREENFIELD AND MCDOWELL.
CITY OF MESA DATA NAVD88
ELEVATION = 1365.04

## BASIS OF BEARING

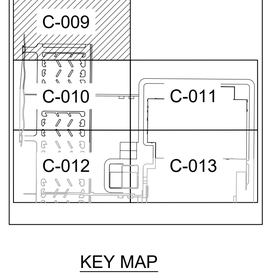
THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 34, TOWNSHIP 2 NORTH, RANGE 6 EAST, AS MEASURED BETWEEN FOUND MONUMENTS. SAID LINE BEARS NORTH 0 DEGREES 30 MINUTES 0 SECONDS EAST.

## DISPOSAL CALCULATIONS

| | VOLUME TO DRAIN | DISPOSAL METHOD | DISPOSAL RATE | DISPOSAL TIME |
|---|---|---|---|---|
| ENTIRE SITE | 2.37 AC FT± (103,467 CF) | ORIFICE PLATE | VARIES (0.38 CFS TO 0.69 CFS) | 36 HOURS |

## NOTES

1. ADD 1300 TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), TOP OF CURB (TC), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
6. REFER TO LANDSCAPE PLANS FOR SLOPE TREATMENT.
7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.
9. ALL STATIONS AND OFFSETS PER GREENFIELD ROAD ℄.




KEY MAP

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

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DATE:

BRPH

BOEING

Registered Professional Engineer Certificate No. 47183 STERLING MARGETTS Civil Designed 07/07/26 ARIZONA, USA Expires 12/31/26

ACCEPTABILITY
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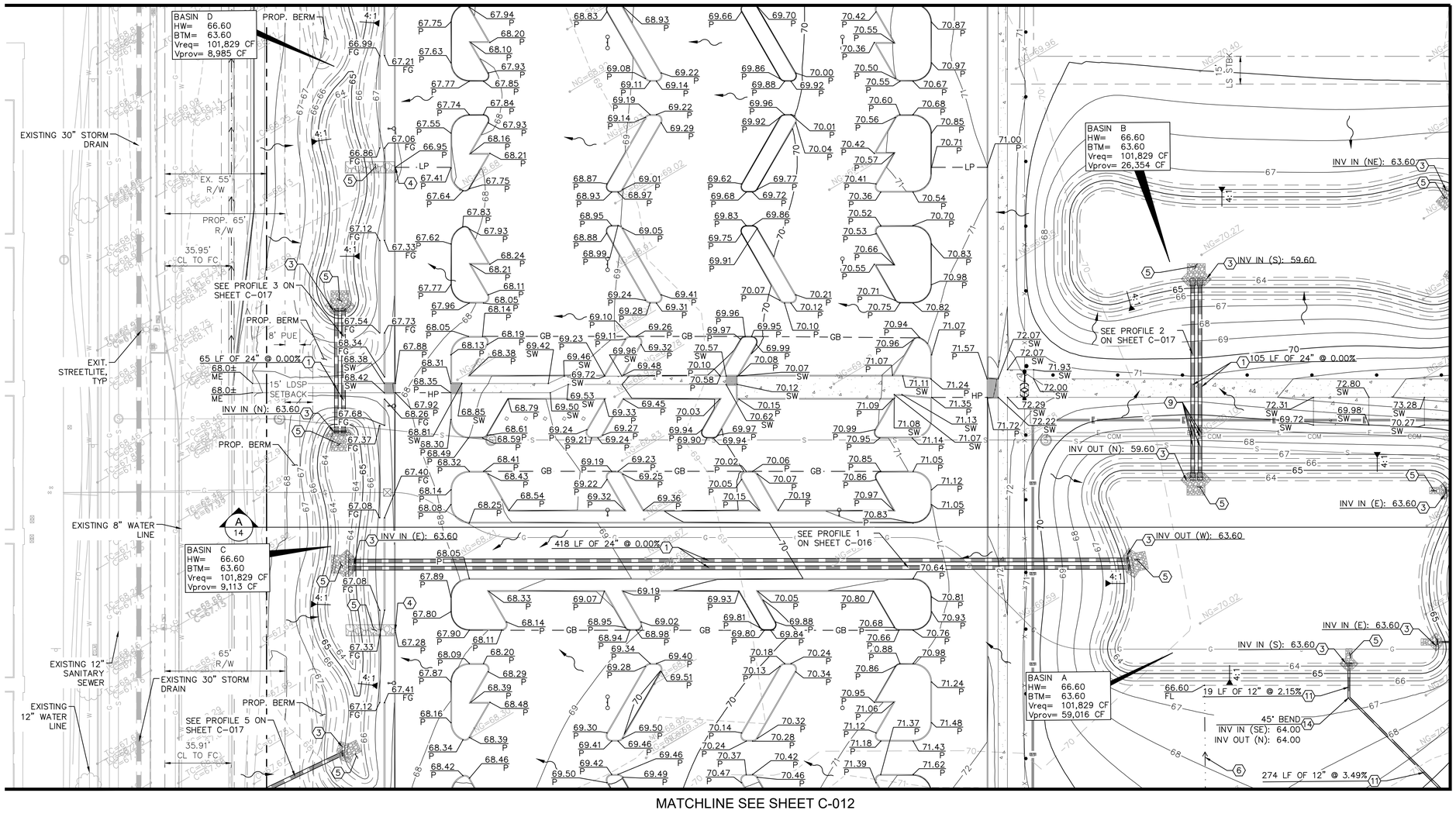
|---|---|---|
| DRAWN AMF | DATE 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| ENGINEER STM | 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| APPROVED | | |
| APPROVED | | |

SUBTITLE
TITLE
PRELIMINARY GRADING AND DRAINAGE PLAN
BOEING OPERATION SHEETS
BUILDING 50-570A
MESA, AZ
ADV. COMPOSITE FABRICATION CENTER
CIVIL MASTER

| | | |
|---|---|---|
| CURRENT REVISION | SYMBOL | DATE 07/06/26 |
| SHEET | C-009 | |
| JOB NO. | C08117.001 | COMP NO. |
| DWG NO. | 50-570A-C-009 | |

Autodesk Docs://C08117.001 - Boeing Mesa ACFC Expansion/50-572-BOEING-ZZ-M3-A-57011.rvt
Author: 2/11/2026 10:43:34 AM

MATCHLINE SEE SHEET C-009




MATCHLINE SEE SHEET C-012

MATCHLINE SEE SHEET C-011

## GRADING LEGEND

- PROPERTY LINE
- EXISTING EASEMENT LINE
- PROPOSED SAW CUT
- HP — PROPOSED HIGH POINT
- LP — PROPOSED LOW POINT
- GB — PROPOSED GRADE BREAK
- PROPOSED STORM DRAIN PIPE
- 81 — EXISTING CONTOUR
- PROPOSED CATCH BASIN PER M.A.G. STANDARD DETAIL 534
- 07.10 P — PROPOSED FLOW ARROW PROPOSED PAVEMENT SPOT ELEVATION
- 05.72 G — PROPOSED CATCH BASIN GRATE ELEVATION
- TC=68.90 P=68.62 — EXISTING ELEVATION

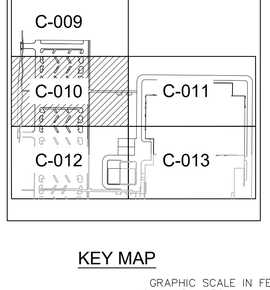
## GRADING AND DRAINAGE NOTES

1. INSTALL HDPE STORM DRAIN EQUALIZER PIPE, BEDDING AND BACKFILL PER MAG SPEC 601. SIZE AND LENGTH PER PLAN.
3. INSTALL HEADWALL WITH SAFTY RAIL PER MAG STD DET 501 AND PER COM STD DET M-65.
4. INSTALL 2' WIDE DRAINAGE CURB OPENING.
5. INSTALL RIP RAP SPILLWAY/APRON D50= 6", DEPTH=12".
6. CONSTRUCT SWALE, 4:1 MAX SIDE SLOPES. MAINTAIN POSITIVE FLOW. 2' WIDE BOTTOM.
9. UTILITY CROSSING SEE UTILITY PLANS.
11. INSTALL HDPE STORM DRAIN PIPE, BEDDING AND BACKFILL PER MAG SPEC 601. SIZE AND LENGTH PER PLAN.
14. INSTALL HDPE STORM DRAIN BEND, SIZE TO MATCH ADJACENT PIPES. ANGLE PER PLAN.

## NOTES

1. ADD 1300 TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), TOP OF CURB (TC), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
6. REFER TO LANDSCAPE PLANS FOR SLOPE TREATMENT.
7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.

## VICINITY MAP




## KEY MAP

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

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BOEING

Registered Professional Engineer (Civil) CERTIFICATE NO. 47183 STERLING MARGETTS Date Signed 07/07/26 ARIZONA, USA Expires 12/31/26

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| DRAWN AMF | 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| ENGINEER STM | 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| APPROVED | | |
| APPROVED | | |

SUBTITLE
TITLE
PRELIMINARY GRADING AND DRAINAGE PLAN
BOEING OPERATION SHEETS
BUILDING 50-570A
MESA, AZ
ADV. COMPOSITE FABRICATION CENTER
CIVIL MASTER

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|---|---|---|
| CURRENT REVISION | SYMBOL | DATE 07/06/26 |
| SHEET C-010 | | |
| JOB NO. C08117.001 | | COMP NO. |
| DWG NO. 50-570A-C-010 | | |

Autodesk Docs://C08117.001 - Boeing Mesa AGFC Expansion/50-572-BOEING-ZZ-M3-A-07011.rvt

Author: 2/11/2026 10:43:34 AM

MATCHLINE SEE SHEET C-010

BASIN B
HW= 66.60
BTM= 63.60
Vreq= 101,829 CF
Vprov= 26,354 CF

PROPOSED BUILDING
TOTAL SF: 267,761
BUILDING HEIGHT: 60'
FF: 75.40
CONSTRUCTION TYPE: 2B
OCCUPANCY: F-1, S-1, B
(50-570)

MATCHLINE SEE SHEET C-013

## GRADING LEGEND

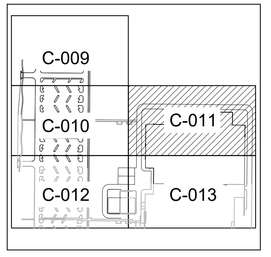
- PROPERTY LINE
- EXISTING EASEMENT LINE
- PROPOSED SAW CUT
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- GB PROPOSED GRADE BREAK
- PROPOSED STORM DRAIN PIPE
- 81 EXISTING CONTOUR
- PROPOSED CATCH BASIN PER M.A.G. STANDARD DETAIL 534
- PROPOSED FLOW ARROW
- 07.10 P PROPOSED PAVEMENT SPOT ELEVATION
- 05.72 G PROPOSED CATCH BASIN GRATE ELEVATION
- TC=07.05 P=06.82 EXISTING ELEVATION

## GRADING AND DRAINAGE NOTES

3. INSTALL HEADWALL WITH SAFTY RAIL PER MAG STD DET 501 AND PER COM STD DET M-65.
5. INSTALL RIP RAP SPILLWAY/APRON D50= 6", DEPTH=12".
6. CONSTRUCT SWALE, 4:1 MAX SIDE SLOPES. MAINTAIN POSITIVE FLOW. 2' WIDE BOTTOM.
9. UTILITY CROSSING SEE UTILITY PLANS.
10. INSTALL TYPE 'G' CATCH BASIN PER MAG STD DET 537. GRATE SHALL BE SECURED WITH CHAIN.
11. INSTALL HDPE STORM DRAIN PIPE, BEDDING AND BACKFILL PER MAG SPEC 601. SIZE AND LENGTH PER PLAN.
12. INSTALL BUILDING ROOD DRAIN AIR BREAK CONNECTION SEE DETAIL ON SHEET 46.
13. INSTALL HDPE TEE, SIZE TO MATCH ADJOINING PIPES.
14. INSTALL HDPE STORM DRAIN BEND, SIZE TO MATCH ADJACENT PIPES. ANGLE PER PLAN.

## NOTES

1. ADD 1300 TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), TOP OF CURB (TC), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
6. REFER TO LANDSCAPE PLANS FOR SLOPE TREATMENT.
7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.
9. SEE SHEET C-XXX FOR CROSS SECTIONS.




KEY MAP

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH



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CERTIFICATE NO.
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STERLING MARGETTS
Date Signed 07/07/26
ARIZONA, USA
Expires 12/31/27

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| DRAWN AMF | DATE 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| ENGINEER STM | 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| APPROVED | | |
| APPROVED | | |

SUBTITLE
TITLE: PRELIMINARY GRADING AND DRAINAGE PLAN
BOEING OPERATION SHEETS
BUILDING 50-570A
MESA, AZ
ADV. COMPOSITE FABRICATION CENTER
CIVIL MASTER

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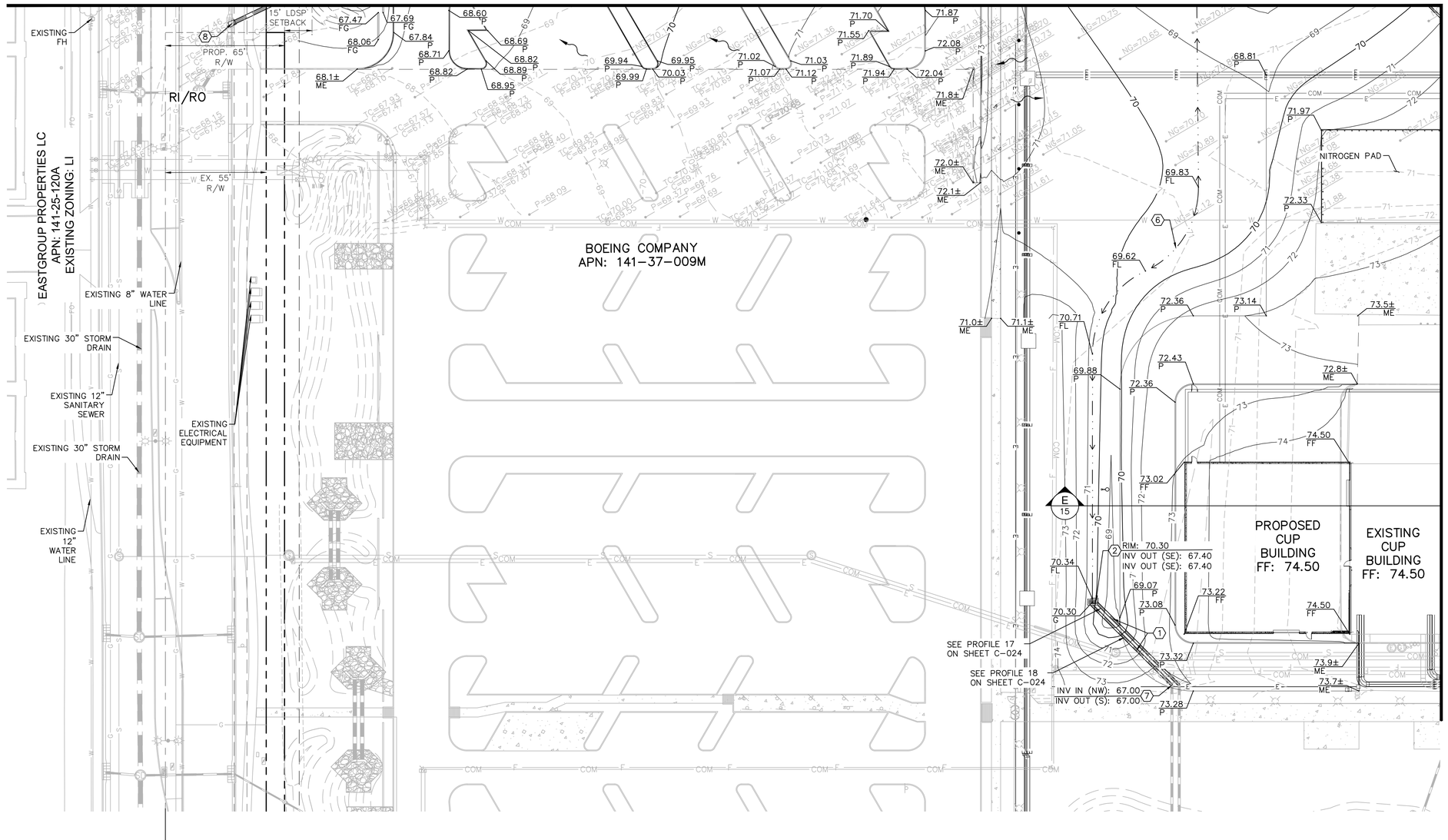
|---|---|---|
| CURRENT REVISION | SYMBOL | DATE 07/06/26 |
| SHEET C-011 | | |
| JOB NO. C08117.001 | | COMP NO. |
| DWG NO. 50-570A-C-011 | | |

MATCHLINE SEE SHEET C-010




MATCHLINE SEE SHEET C-013

## GRADING LEGEND

- PROPERTY LINE
- EXISTING EASEMENT LINE
- PROPOSED SAW CUT
- HP — PROPOSED HIGH POINT
- LP — PROPOSED LOW POINT
- GB — PROPOSED GRADE BREAK
- PROPOSED STORM DRAIN PIPE
- 81 — EXISTING CONTOUR
- PROPOSED CATCH BASIN PER M.A.G. STANDARD DETAIL 534
- PROPOSED FLOW ARROW
- 07.10 P — PROPOSED PAVEMENT SPOT ELEVATION
- 05.72 G — PROPOSED CATCH BASIN GRATE ELEVATION
- TC=07.06 P=06.62 — EXISTING ELEVATION

## GRADING AND DRAINAGE NOTES

(1) INSTALL HDPE STORM DRAIN EQUALIZER PIPE, BEDDING AND BACKFILL PER MAG SPEC 601. SIZE AND LENGTH PER PLAN.

(2) INSTALL TYPE 'G' CATCH BASIN PER MAG STD DET 537 DOUBLE GRATE. GRATE SHALL BE SECURED WITH CHAIN.

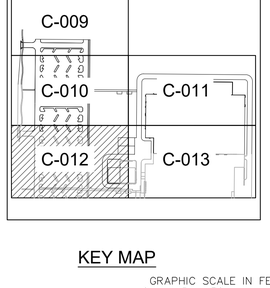
(6) CONSTRUCT SWALE, 4:1 MAX SIDE SLOPES. MAINTAIN POSITIVE FLOW. 2' WIDE BOTTOM.

(7) CONNECT TO EXISTING STORM DRAIN PIPE. INSTALL WITH 45° BEND, SIZE TO MATCH ADJOINING PIPES.

(8) CORE AND CONNECT TO EXISTING STORM DRAIN CATCH BASIN.

## NOTES

1. ADD 1300 TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
3. ALL SPOT ELEVATIONS ARE FINISHED GRADE PAVEMENT (P), GUTTER/GRATE (G), TOP OF CURB (TC), OR SIDEWALK (SW) ELEVATIONS UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
6. REFER TO LANDSCAPE PLANS FOR SLOPE TREATMENT.
7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.




KEY MAP

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0 15 30 60

NORTH

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CERTIFICATE NO.
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STERLING MARGETTS
Date Signed 07/07/26
ARIZONA, USA
Expires 12/31/26

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|---|---|---|
| DRAWN AMF | DATE | 07/06/26 |
| CHECKED STM | | 07/06/26 |
| ENGINEER STM | | 07/06/26 |
| CHECKED STM | | 07/06/26 |
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| APPROVED | | |

SUBTITLE
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PRELIMINARY GRADING AND DRAINAGE PLAN
BOEING OPERATION SHEETS
BUILDING 50-570A
MESA, AZ
ADV. COMPOSITE FABRICATION CENTER
CIVIL MASTER

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|---|---|---|
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| SHEET C-012 | | |
| JOB NO. C08117.001 | | COMP NO. |
| DWG NO. 50-570A-C-012 | | |

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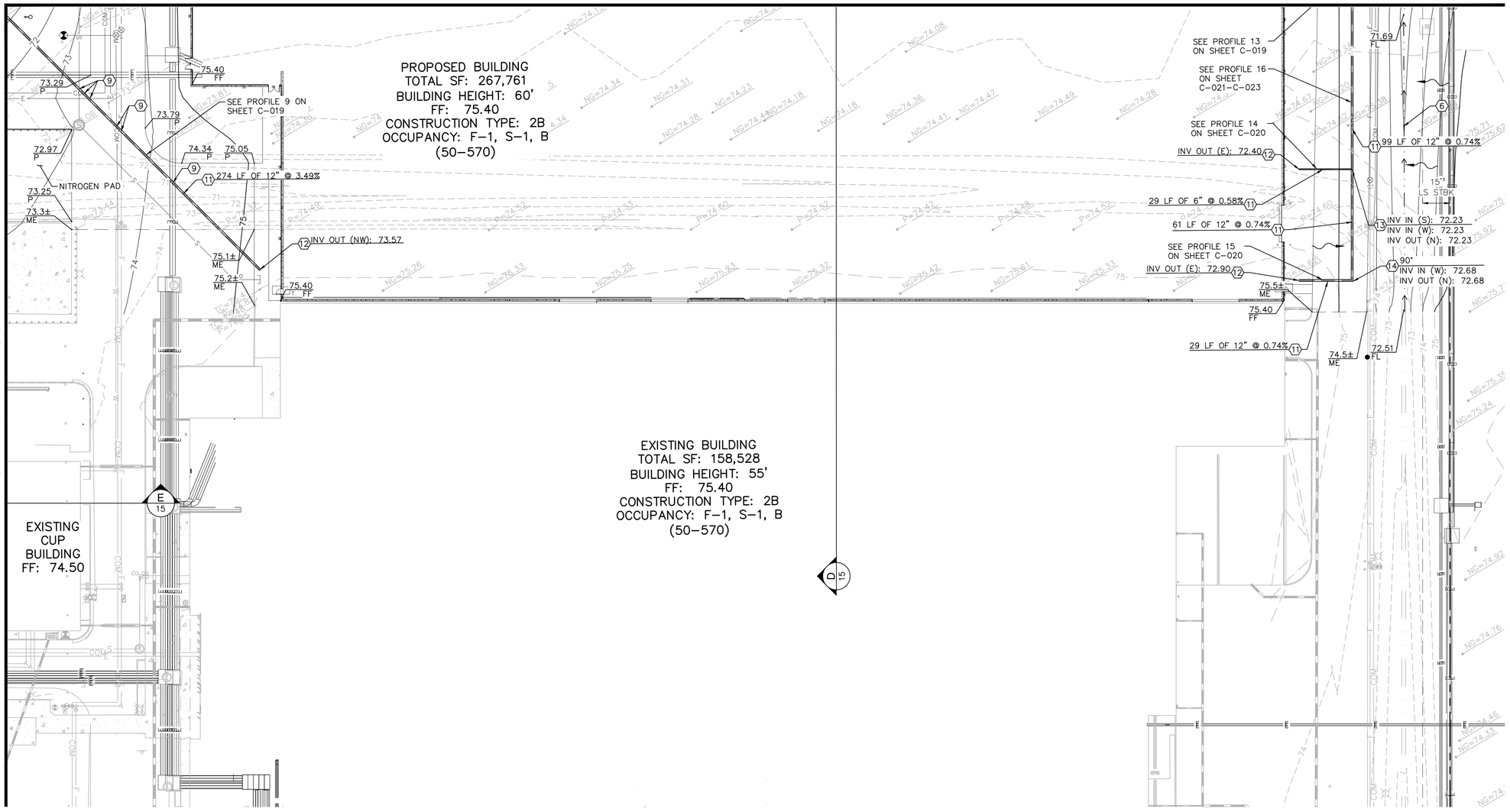
Author: 2/11/2026 10:43:34 AM




## GRADING LEGEND

- PROPERTY LINE
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- PROPOSED GRADE BREAK
- PROPOSED STORM DRAIN PIPE
- EXISTING CONTOUR
- PROPOSED CATCH BASIN PER M.A.G. STANDARD DETAIL 534
- PROPOSED FLOW ARROW
- 07.10 P — PROPOSED PAVEMENT SPOT ELEVATION
- 05.72 G — PROPOSED CATCH BASIN GRATE ELEVATION
- TC=07.06 P=06.62 — EXISTING ELEVATION

## GRADING AND DRAINAGE NOTES

(6) CONSTRUCT SWALE, 4:1 MAX SIDE SLOPES. MAINTAIN POSITIVE FLOW. 2' WIDE BOTTOM.

(9) UTILITY CROSSING SEE UTILITY PLANS.

(11) INSTALL HDPE STORM DRAIN PIPE, BEDDING AND BACKFILL PER MAG SPEC 601. SIZE AND LENGTH PER PLAN.

(12) INSTALL BUILDING ROOD DRAIN AIR BREAK CONNECTION SEE DETAIL ON SHEET 46.

(13) INSTALL HDPE TEE, SIZE TO MATCH ADJOINING PIPES.

(14) INSTALL HDPE STORM DRAIN BEND, SIZE TO MATCH ADJACENT PIPES. ANGLE PER PLAN.

## NOTES

1. ADD 1300 TO ALL ELEVATIONS.
2. ADD 0.5' TO PAVEMENT (P) ELEVATIONS FOR TOP OF CURB ELEVATIONS FOR VERTICAL CURBS.
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4. CONTRACTOR SHALL USE SPOT ELEVATIONS, PROPOSED CONTOURS, AND SLOPES TO ESTABLISH GRADES.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% AND LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
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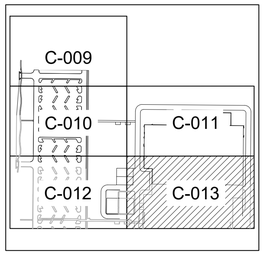
7. ALL FILL SLOPES SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. REFER TO BUILDING ARCHITECTURE AND STRUCTURAL PLANS FOR EXACT BUILDING FOUNDATION THICKNESS CHANGES.

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NORTH

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DESIGN BY:
DATE:

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BOEING

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| DRAWN AMF | 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| ENGINEER STM | 07/06/26 | |
| CHECKED STM | 07/06/26 | |
| APPROVED | | |
| APPROVED | | |

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TITLE: PRELIMINARY GRADING AND DRAINAGE PLAN
BOEING OPERATION SHEETS
BUILDING 50-570A
MESA, AZ
ADV. COMPOSITE FABRICATION CENTER
CIVIL MASTER

| CURRENT REVISION | SYMBOL | DATE |
|---|---|---|
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