

103702 PGD.dwg modified by kellybell on May 13, 22 12:41 PM

MATCHLINE GRADING & DRAINAGE PLAN A
MATCHLINE GRADING & DRAINAGE PLAN B

LEGEND

- PROP SURFACE FLOW DIRECTION
EX SURFACE FLOW DIRECTION
CATCH BASIN
DRY WELL
STORM DRAIN MANHOLE
STORM DRAIN PIPE
BOUNDARY LINE
CENTER LINE
EXISTING CONTOURS
PROPOSED CONTOURS
SEWER MANHOLE

- C CONCRETE
FFE FINISHED FLOOR ELEVATION
FG FINISH GRADE
G GUTTER
GR GRATE
(N) NORTH
(S) SOUTH
(E) EAST
Tc TIME OF CONCENTRATION
TD TRENCH DRAIN
AC ACRES
CFS CUBIC FEET PER SECOND
DA DRAINAGE AREA
EX EXISTING
PROP PROPOSED
Q₁₀ 10 YEAR FLOW
Q₂₅ 25 YEAR FLOW
Q₁₀₀ 100 YEAR FLOW
SD STORM DRAIN

ABBREVIATIONS

INDUSTRIAL BUILDING 3
FFE 80.00

INDUSTRIAL BUILDING 2
FFE 80.20

PRELIMINARY DRAINAGE CALCULATIONS

100 YR 2 HOUR VOLUME - INCLUDING STREET VOLUMES FOR
HAWES ROAD AND GERMANN RD

BASIN 1-7
 $V_p = C'D/12"A$

C = COMPOSITE "C" = 0.95
D = RAINFALL DEPTH = 2.2
A = CONTRIBUTING AREA = 1,470,180 SF

$V_p = 0.95 \times 2.2 / 12 \times 1,470,180 = 262,903$ CF VOLUME
 $V_p = 262,903$ CF VOLUME (TOTAL)

ONSITE CONTRIBUTING AREAS A, C, D, E, F, G, H & OFFSITE 1 (HAWES ROAD) = 29.56 ACRES
 $V_p = 0.95 \times 2.2 / 12 \times 1,406,137$ SF = 224,906 CF REQUIRED
 V_p IN BASINS 1-7 = 242,738 CF PROVIDED

BASIN 8
DA OFFSITE 2 (GERMANN RD) AND DA B SERVED BY BASIN 8 = 2.09 ACRES
 $V_p = 0.95 \times 2.2 / 12 \times 90,839$ SF = 15,825 CF REQUIRED
 V_p IN BASIN 8 = 16,736 CF PROVIDED

KBELL



ENGINEERING

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ISSUES AND REVISIONS:

NO. DATE ISSUES

CLIENT: STARPOINT PROPERTIES
PROJECT NAME & ADDRESS: HAWES GERMANN 34 INDUSTRIAL
NE CORNER OF HAWES ROAD AND GERMANN ROAD, MESA, ARIZONA
SHEET NAME: PRELIMINARY GRADING AND DRAINAGE PLAN A

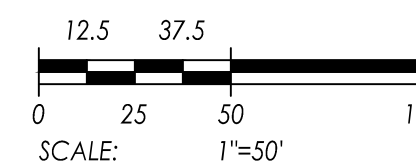
PROJECT NO.: 1037.02
DESIGNED BY: KJB
DRAWN BY: JJB

SHEET

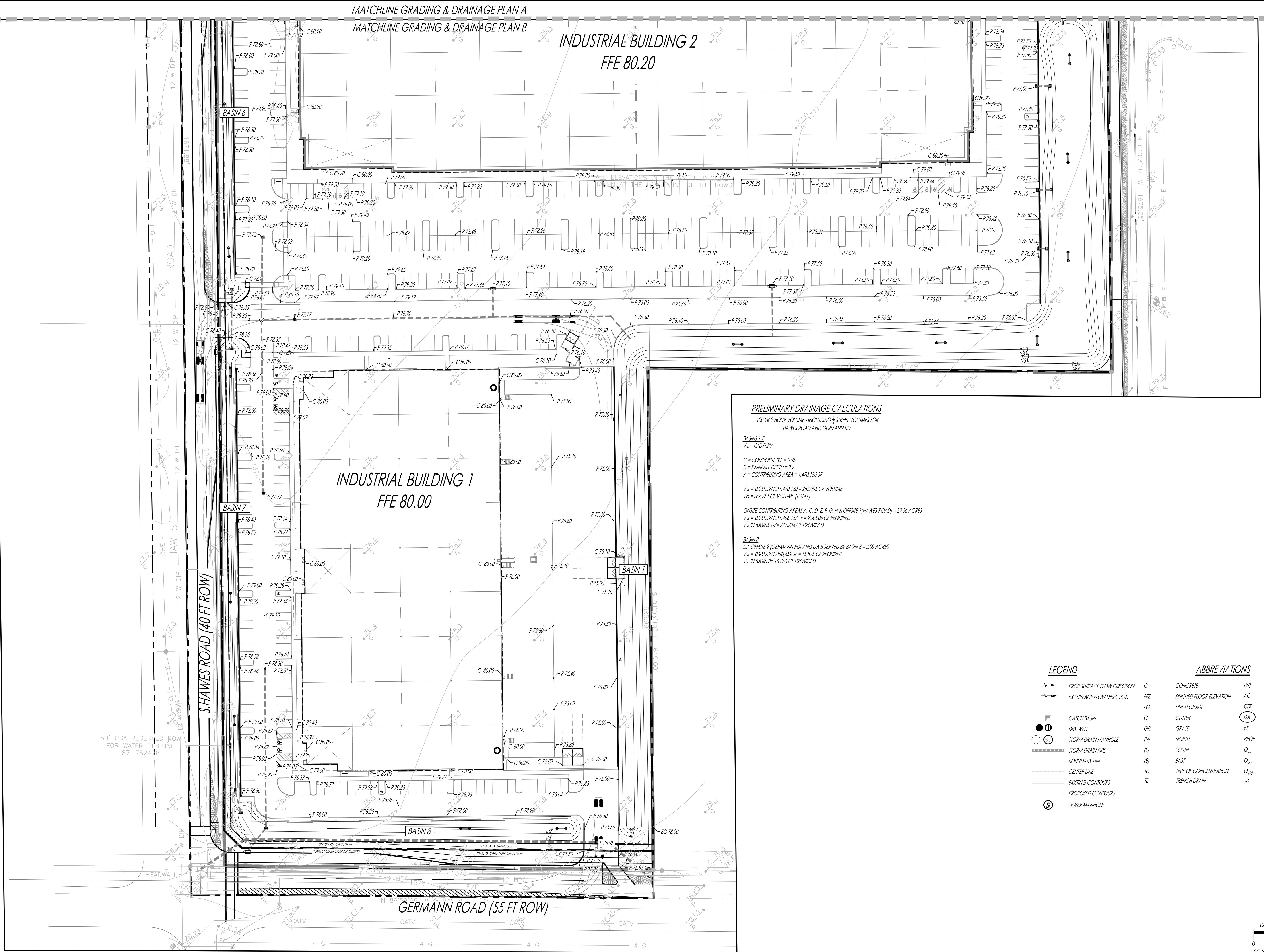
C-1

OF

4



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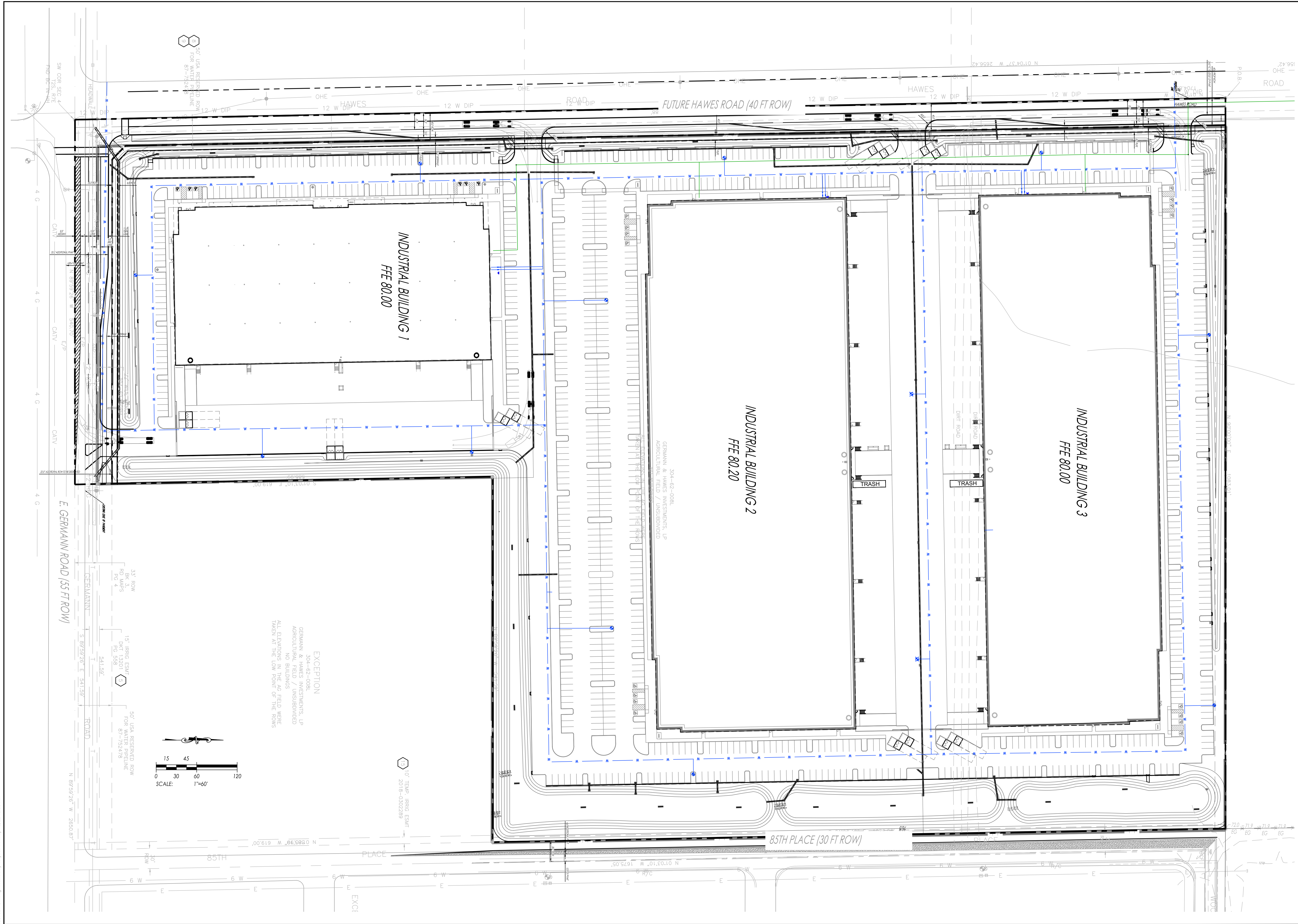
ISSUES AND REVISIONS:
NO. DATE ISSUES

CLIENT: STARPOINT PROPERTIES
PROJECT NAME: ADDRESS
HAWES GERMANN 34 INDUSTRIAL
NE CORNER OF HAWES ROAD AND GERMANN ROAD, MESA, ARIZONA
SHEET NAME:
PRELIMINARY GRADING AND DRAINAGE PLAN B

PROJECT NO.: 1037.02
DESIGNED BY: KJB
DRAWN BY: JJB

SHEET
C-2
OF 4

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ISSUES AND REVISIONS:

NO.	DATE	ISSUES
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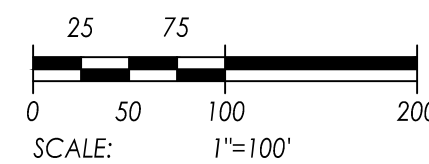
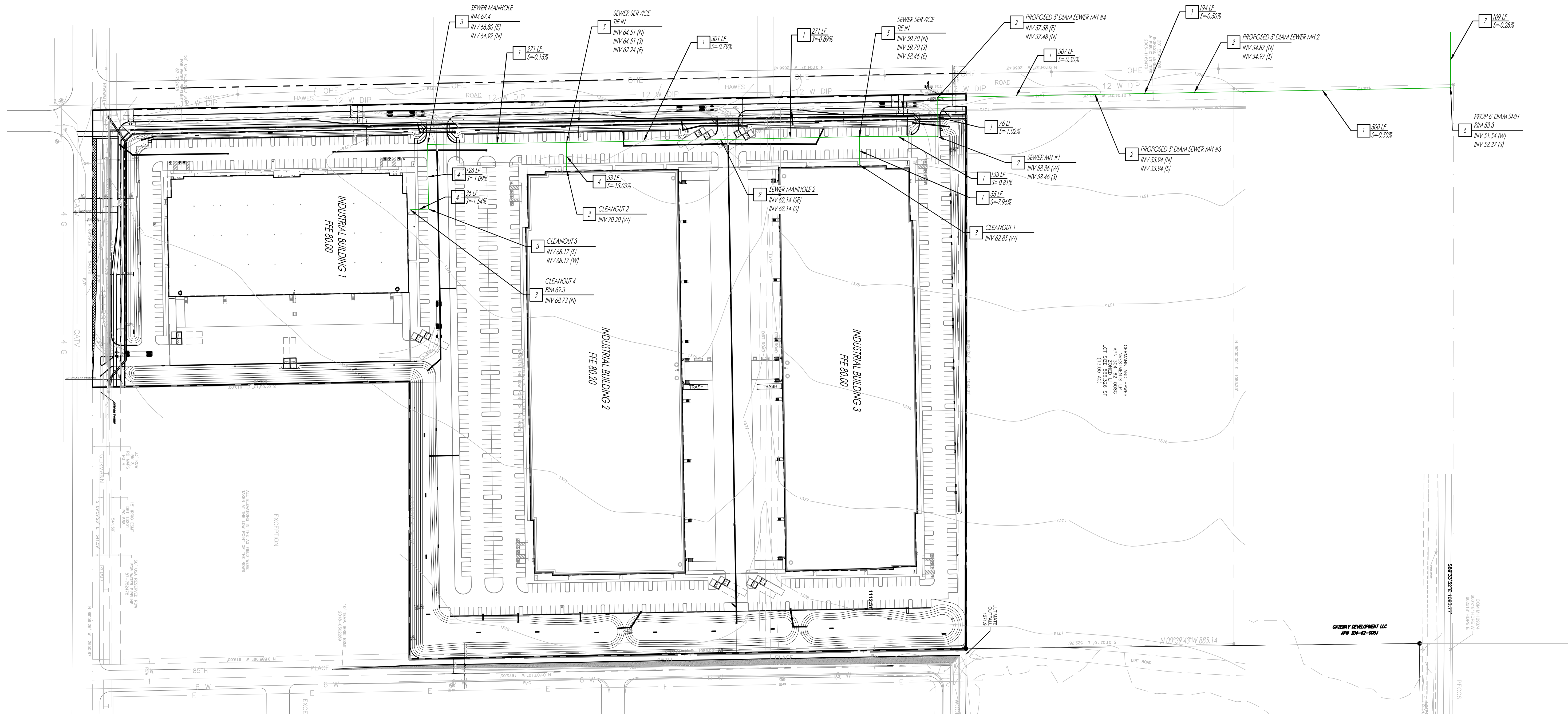
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STARPOINT PROPERTIES
PROJECT NAME: ADDRESS
HAWES GERMAN 34 INDUSTRIAL
NE CORNER OF HAWES ROAD AND GERMAN ROAD, MESA, ARIZONA
SHEET NAME:
PRELIMINARY WATER PLAN

PROJECT NO.: 1037.02
DESIGNED BY: KJB
DRAWN BY: JJB

SHEET
C-3
OF 4

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ISSUES AND REVISIONS:
NO. DATE ISSUES

CLIENT:
STARPOINT PROPERTIES
PROJECT NAME & ADDRESS:
HAWES GERMAN 34 INDUSTRIAL
NE CORNER OF HAWES ROAD AND GERMAN ROAD, MESA, ARIZONA
SHEET NAME:
PRELIMINARY SEWER PLAN

PROJECT NO.: 1037.02
DESIGNED BY: KJB
DRAWN BY: JJB

SHEET
C-4
OF 4