

ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	IRR	IRRIGATION
AC	ASPHALT CONCRETE	LF	LINEAR FEET
ACP	ASBESTOS CEMENT PIPE	MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
B/C	BACK OF CURB	ME	MATCH EXISTING
BC	BRASS CAP	M	MONUMENT LINE
BCF	BRASS CAP FLUSH	MOD	MODIFIED
BCHH	BRASS CAP IN HANDHOLE	NTS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
BM	BENCHMARK	OHE	OVERHEAD ELECTRIC
BOT	BOTTOM	P	PAVEMENT ELEVATION
C	CONCRETE ELEVATION	PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
CATV	CABLE TELEVISION	PL	PROPERTY LINE
CL	CENTERLINE	PUE	PUBLIC UTILITY EASEMENT
CMP	CORRUGATED METAL PIPE	PVC	POLY VINYL CHLORIDE
COMM	COMMUNICATION	PVMT	PAVEMENT
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	R/W	RIGHT-OF-WAY
DBNK	DUCT BANK	RCP	REINFORCED CONCRETE PIPE
DET	DETAIL	S	SLOPE, SEWER
DIP	DUCTILE IRON PIPE	SD	STORM DRAIN
E/P	EDGE OF PAVEMENT	SEC	SECTION
EL	ELEVATION	SF	SQUARE FOOT
ESMT	EASEMENT	SPEC	SPECIFICATIONS
EXST	EXISTING	STA	STATION
F/C	FACE OF CURB	STD	STANDARD
FF	FINISH FLOOR ELEVATION	STL	STEEL
FG	FINISH GRADE ELEVATION	SY	SQUARE YARD
F	FIRE LINE	TC	TOP OF CURB
FL	FLOWLINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
FND	FOUND	TEL	TELEPHONE
FO	FIBER OPTIC	TYP	TYPICAL
FT	FOOT OR FEET	UNK	UNKNOWN
GB	GUTTER ELEVATION, GAS	VCP	VITRIFIED CLAY PIPE
GR	GRADE BREAK	W	WATER
OR	GRATE ELEVATION	W/	WITH
HDPE	HIGH DENSITY POLYETHYLENE	WM	WATER METER
INV	INVERT	WSE	WATER SURFACE ELEVATION

LEGEND

EXST	NEW

EARTHWORK QUANTITIES

CUT:	14,981 CY
FILL:	23,764 CY
NET (FILL):	8,783 CY

FEMA FLOOD INSURANCE RATE MPA

THE SUBJECT PARCEL LIES IN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY AGENCY FIRM MAP NUMBER 04013C2760L, REVISED OCTOBER 16, 2013

FLOOD ZONE "X" IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE ARES LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL FLOOD

SHEET INDEX

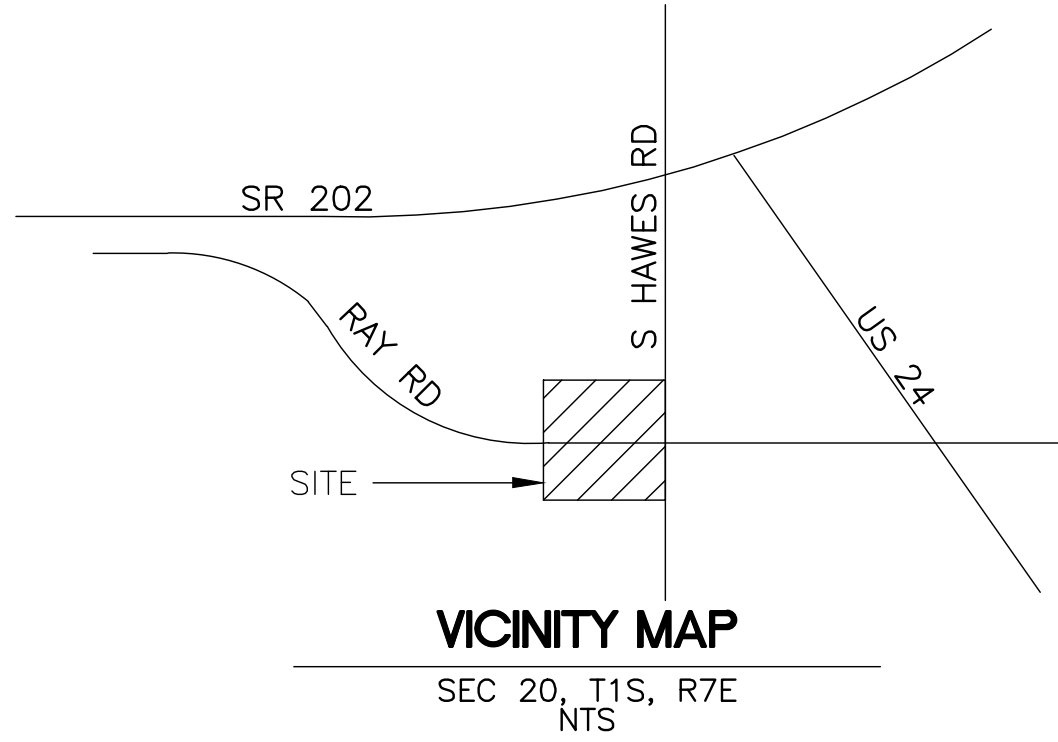
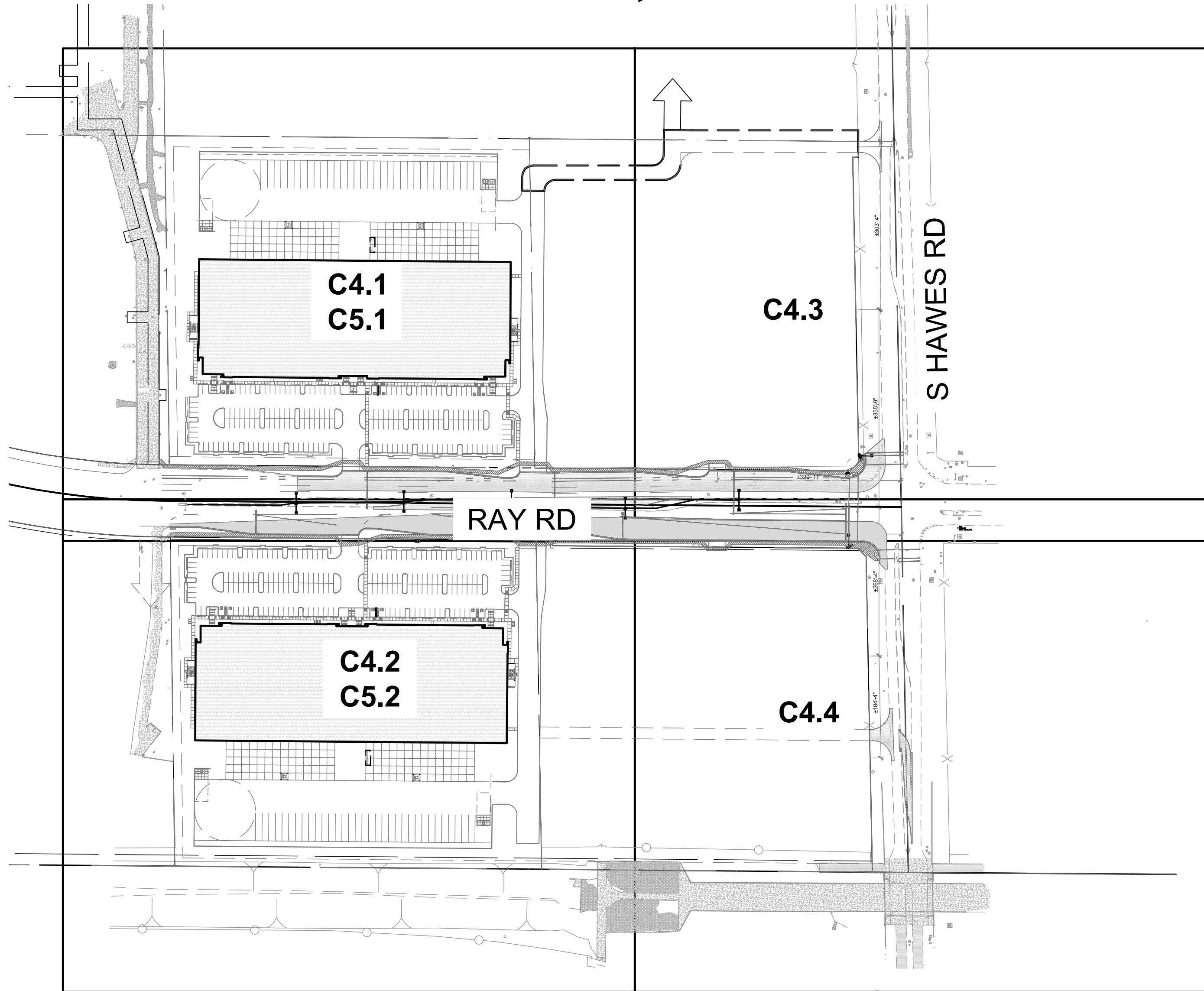
C4.0	COVER
C4.1	GRADING & DRAINAGE PLAN
C4.2	GRADING & DRAINAGE PLAN
C4.3	GRADING & DRAINAGE PLAN
C4.4	GRADING & DRAINAGE PLAN
C5.1	UTILITY PLAN
C5.2	UTILITY PLAN

GATEWAY PARK

RAY ROAD & HAWES ROAD

PRELIMINARY GRADING & DRAINAGE & UTILITY PLAN

NW & SW CORNERS OF HAWES RD AND RAY RD, MESA, AZ
A PORTION OF SECTION 20,
TOWNSHIP 1S, RANGE 7E



PROJECT INFORMATION

OWNER
PARK VENTURES
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EL SEGUNDO, CA 90245
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RETENTION CALCULATIONS

NORTH SITE:
TOTAL AREA=390450 SF
DESERT LANDSCAPE=73850 SF
Cw=0.86
MESA STANDARD RAINFALL DEPTH=2.2 INCHES
RETENTION VOLUME REQUIRED=61910 CF
RETENTION VOLUME PROVIDED=62830 CF

SOUTH SITE:
TOTAL AREA=385620 SF
DESERT LANDSCAPE=60820 SF
Cw=0.88
MESA STANDARD RAINFALL DEPTH=2.2 INCHES
RETENTION VOLUME REQUIRED=62140 CF
RETENTION VOLUME PROVIDED=62830 CF

OFFSITE FLOWS

NORTH SITE:
EXISTING CONDITION: 47 CFS
PROPOSED CONDITION: 26 CFS

SOUTH SITE:
EXISTING CONDITION: 148 CFS
PROPOSED CONDITION: 34 CFS

BENCHMARK & METADATA

UNITS:
COORDINATES, DISTANCES AND ELEVATIONS ARE SHOWN IN INTERNATIONAL FEET.

HORIZONTAL DATUM (BASIS OF BEARING):
NAD83 (2011 EPOCH) ARIZONA CENTRAL ZONE, GROUND

HORIZONTAL ADJUSTMENT:
COMBINED SCALE FACTOR (CSF): 1.00015304
GRID NORTHING (CSF) = GROUND NORTHING
GRID EASTING (CSF) = GROUND EASTING

VERTICAL DATUM:
NAVD '88

PROJECT BENCHMARK:
POINT NUMBER 30
FOUND CITY OF MESA PUBLISHED BENCHMARK DESCRIBED AS:
BRASS TAG IN TOP OF CURB ON THE NORTHEAST CORNER OF
POWER ROAD AND WARNER.
OBSERVED GROUND NORTHING = 850080.951
OBSERVED GROUND EASTING = 770288.000
PUBLISHED ELEVATION = 1321.89

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PRELIMINARY GRADING & DRAINAGE & UTILITY PLAN

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Project No. 1124140

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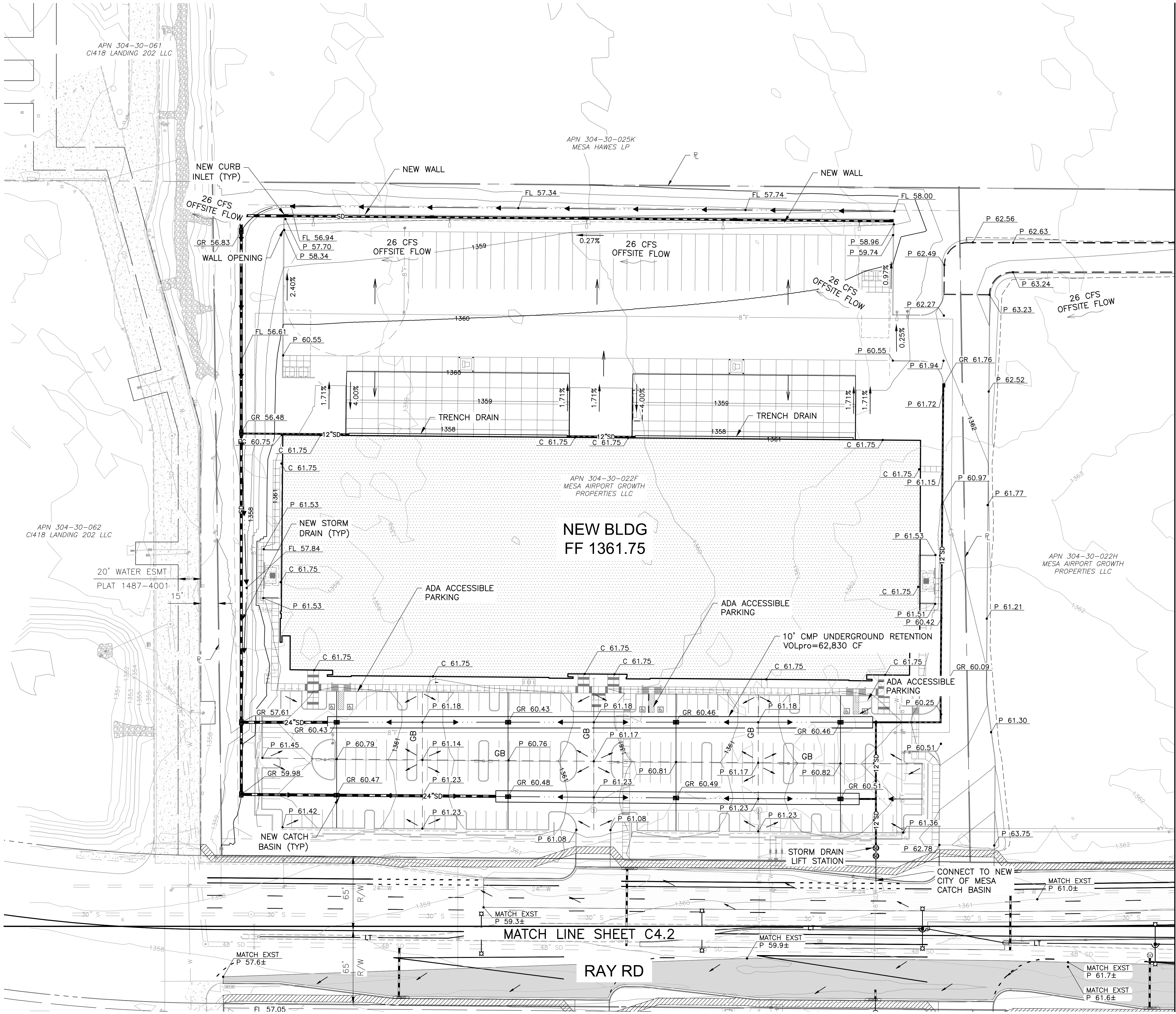
COVER

Dwg. No.

C4.0



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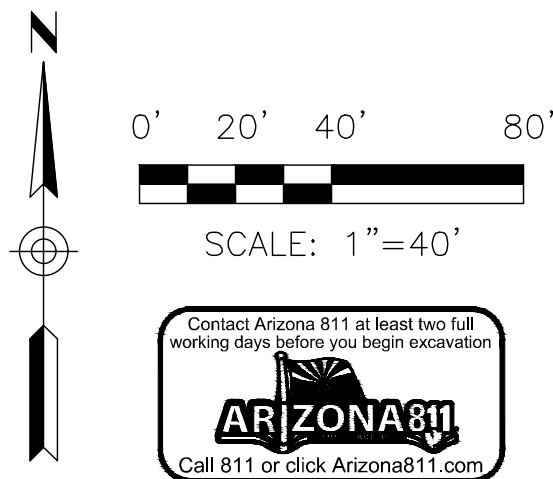


MATCH LINE SEE SHEET C4.3

GENERAL NOTES

1. ADD 1300' TO ALL SPOT GRADES & INVERT ELEVATIONS
2. ALL TOP OF CURBS ARE 6" ABOVE PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.
3. ALL UTILITY SURFACE FEATURES SHALL BE ADJUSTED TO FINISH GRADE INCLUDING BUT NOT LIMITED TO UTILITY BOXES, VALVES, METER BOXES, VAULTS, MANHOLES, BACKFLOWS, GRATES, ETC.
4. ALL NEW SIDEWALK, PAVING AND OTHER HARDSCAPE FEATURES SHALL MATCH IN WITH EXISTING ADJACENT GRADES.
5. ALL SIDEWALK AND ADA ROUTES SHALL BE CONSTRUCTED WITH 5% MAX SLOPE IN THE DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION



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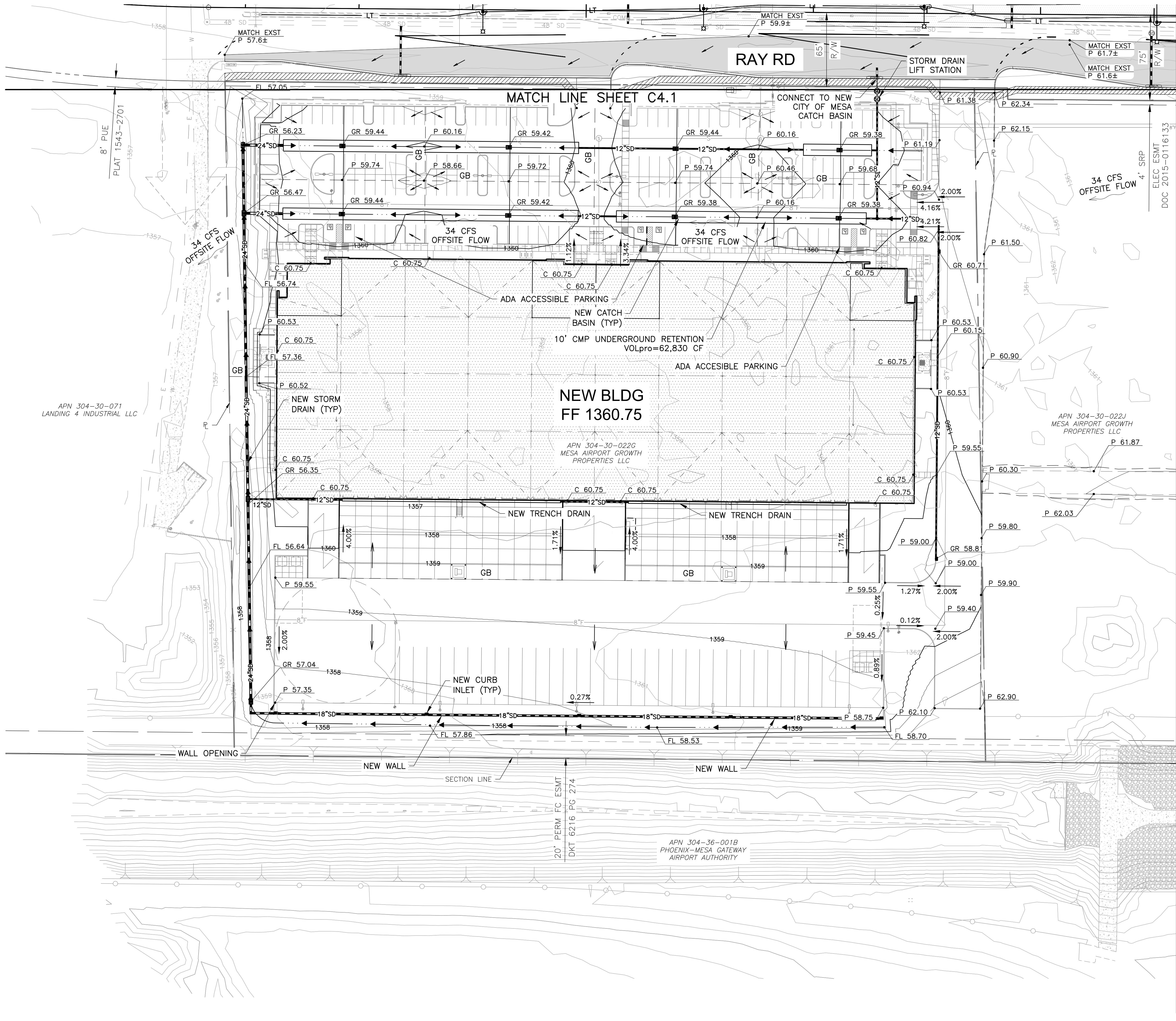
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**GRADING &
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Dwg No.
C4.1

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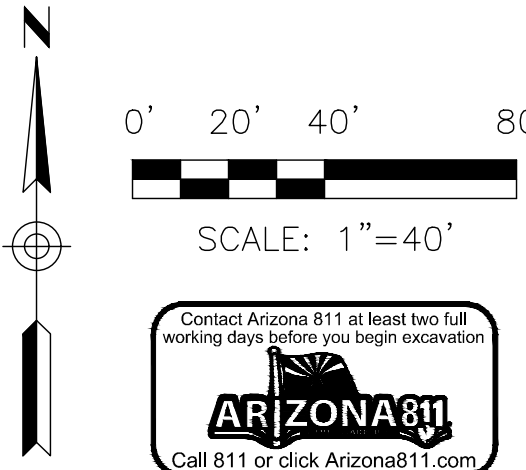


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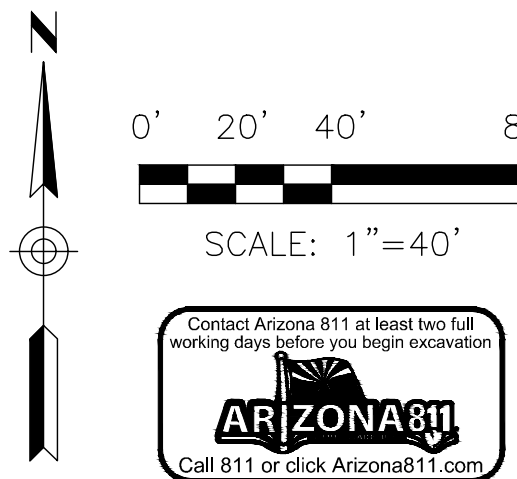
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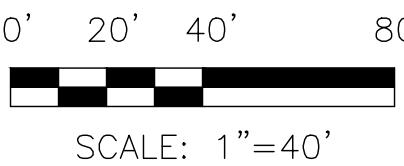
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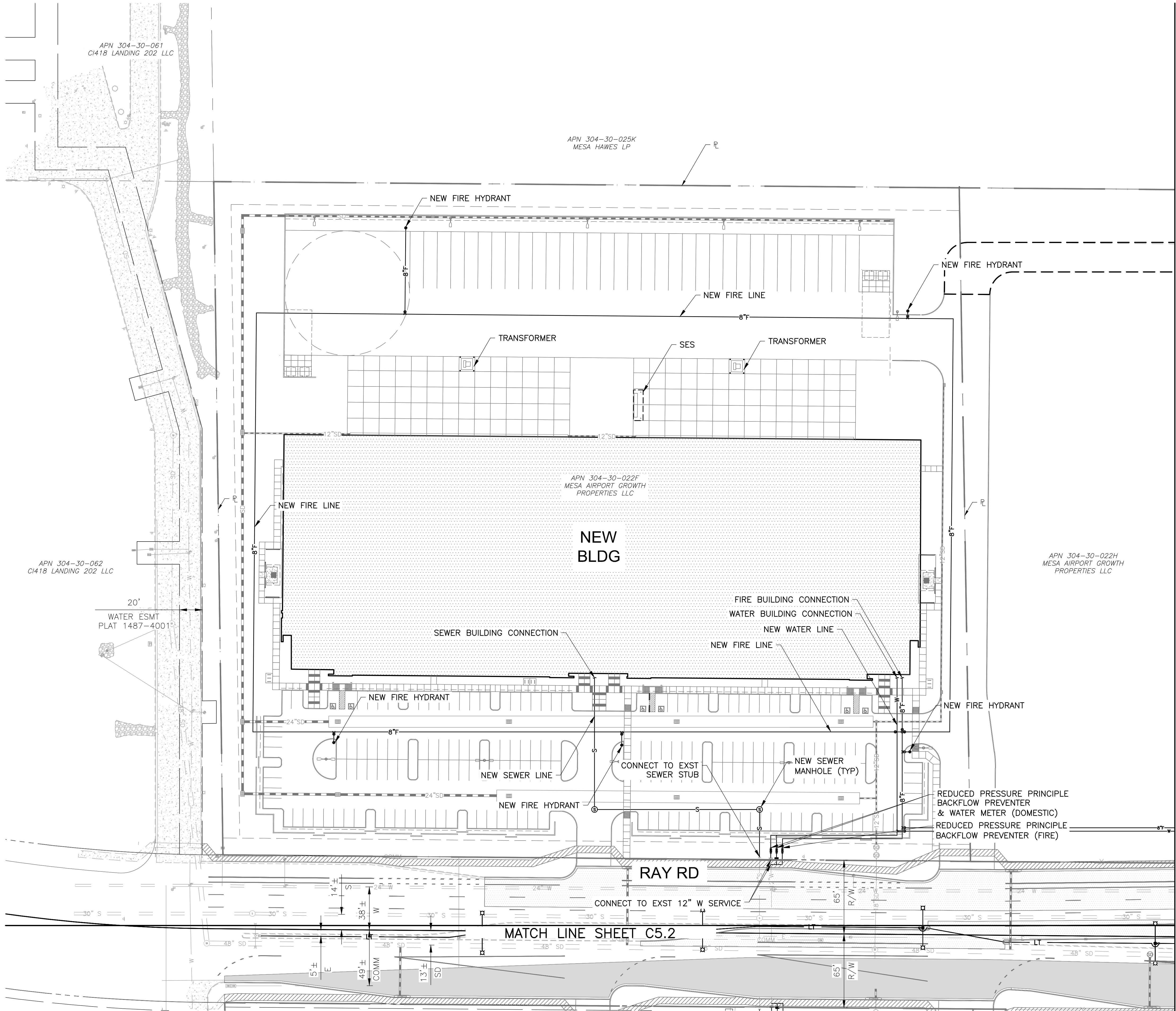
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MATCH LINE SHEET C5.3

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NW & SW CORNERS OF HAWES RD & RAY RD, MESA, ARIZONA**

PRELIMINARY UTILITY PLAN

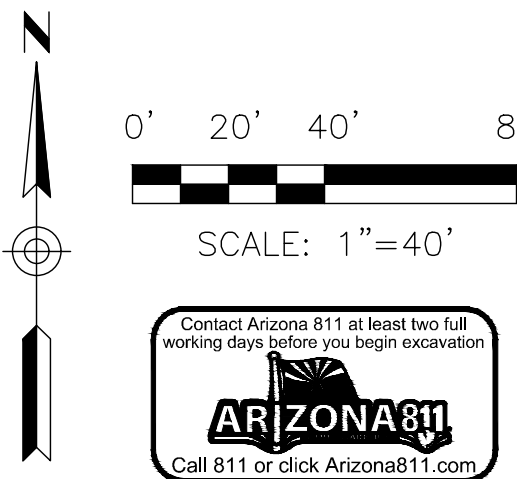
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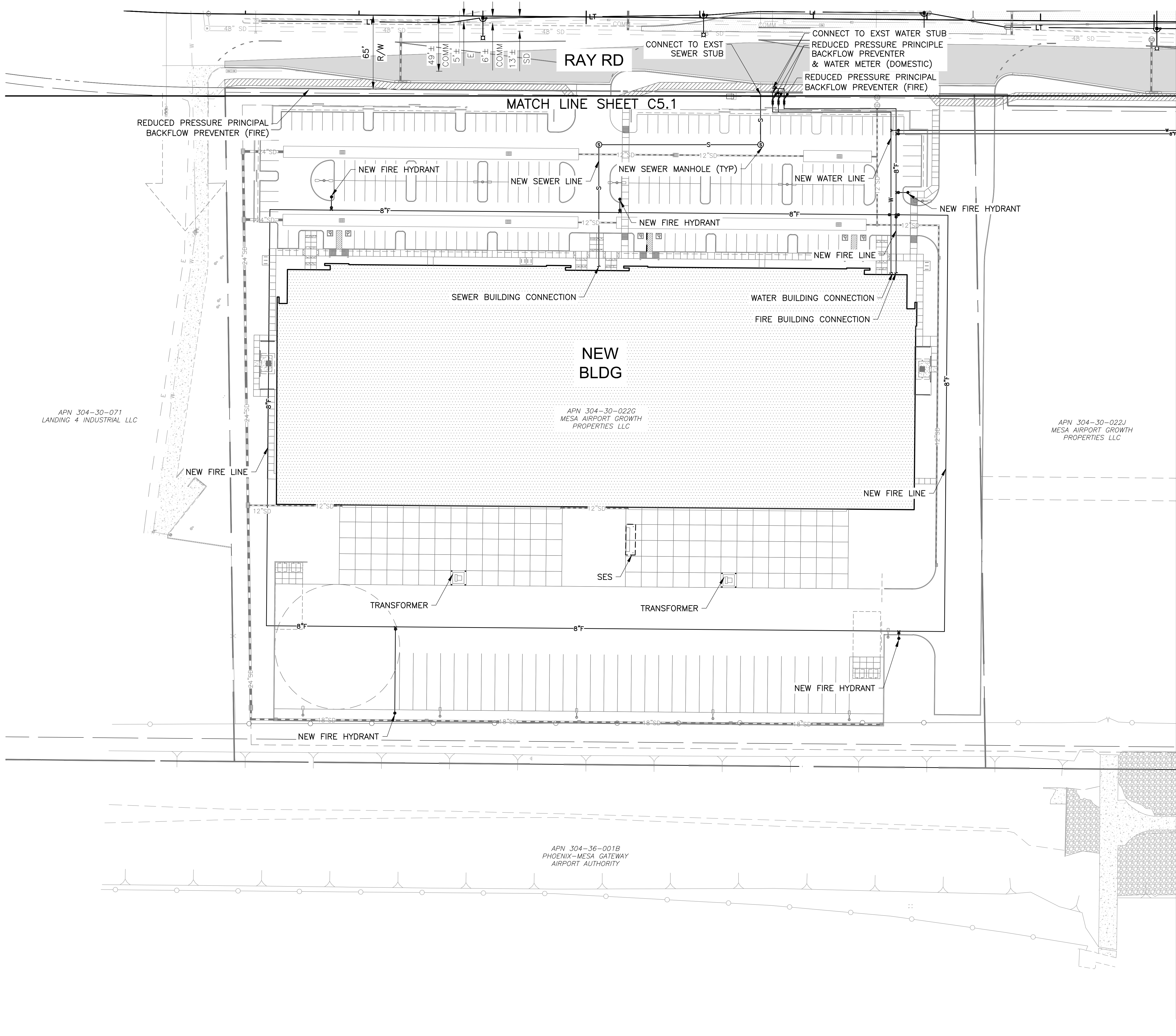
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UTILITY PLAN

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C5.1

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0' 20' 40' 80'

SCALE: 1"=40'

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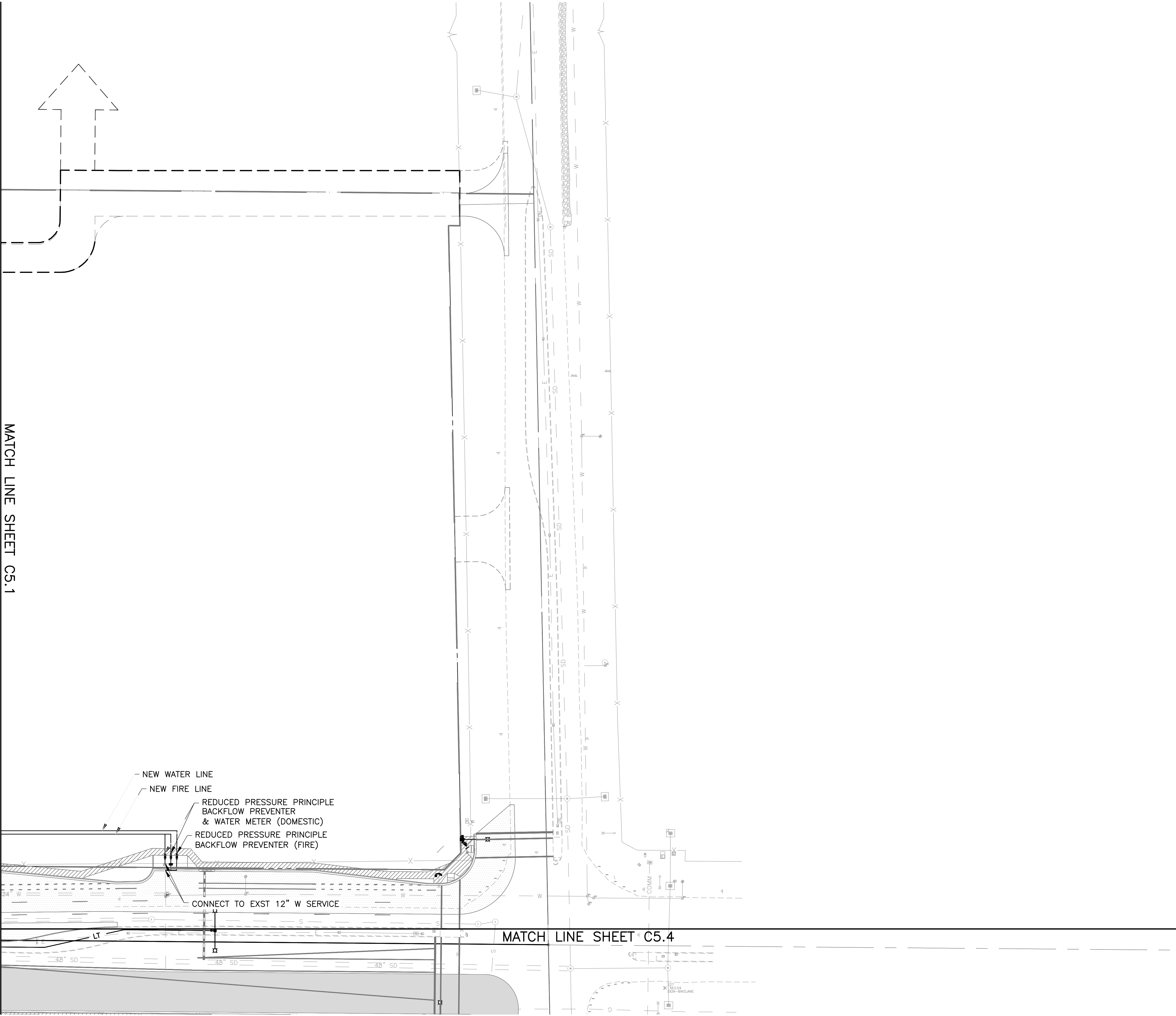
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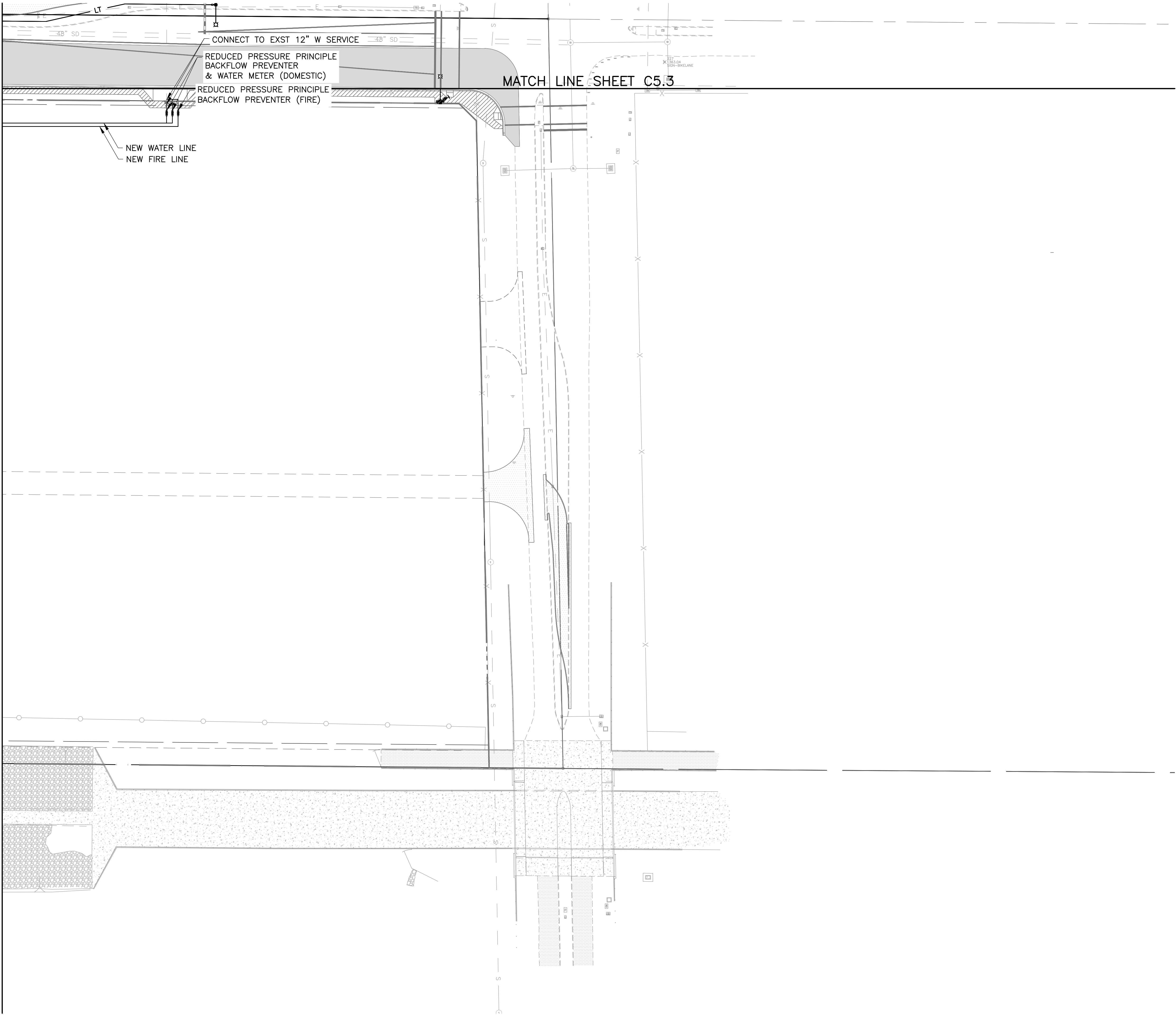
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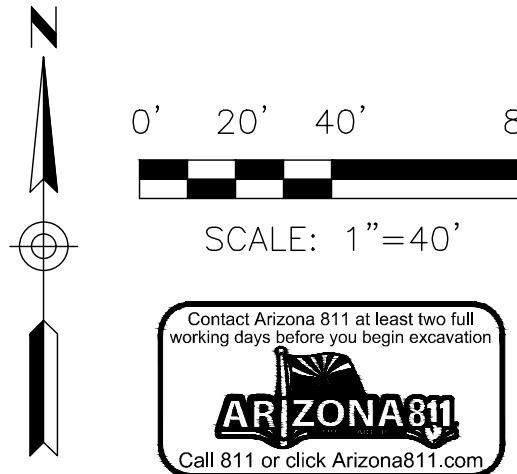
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