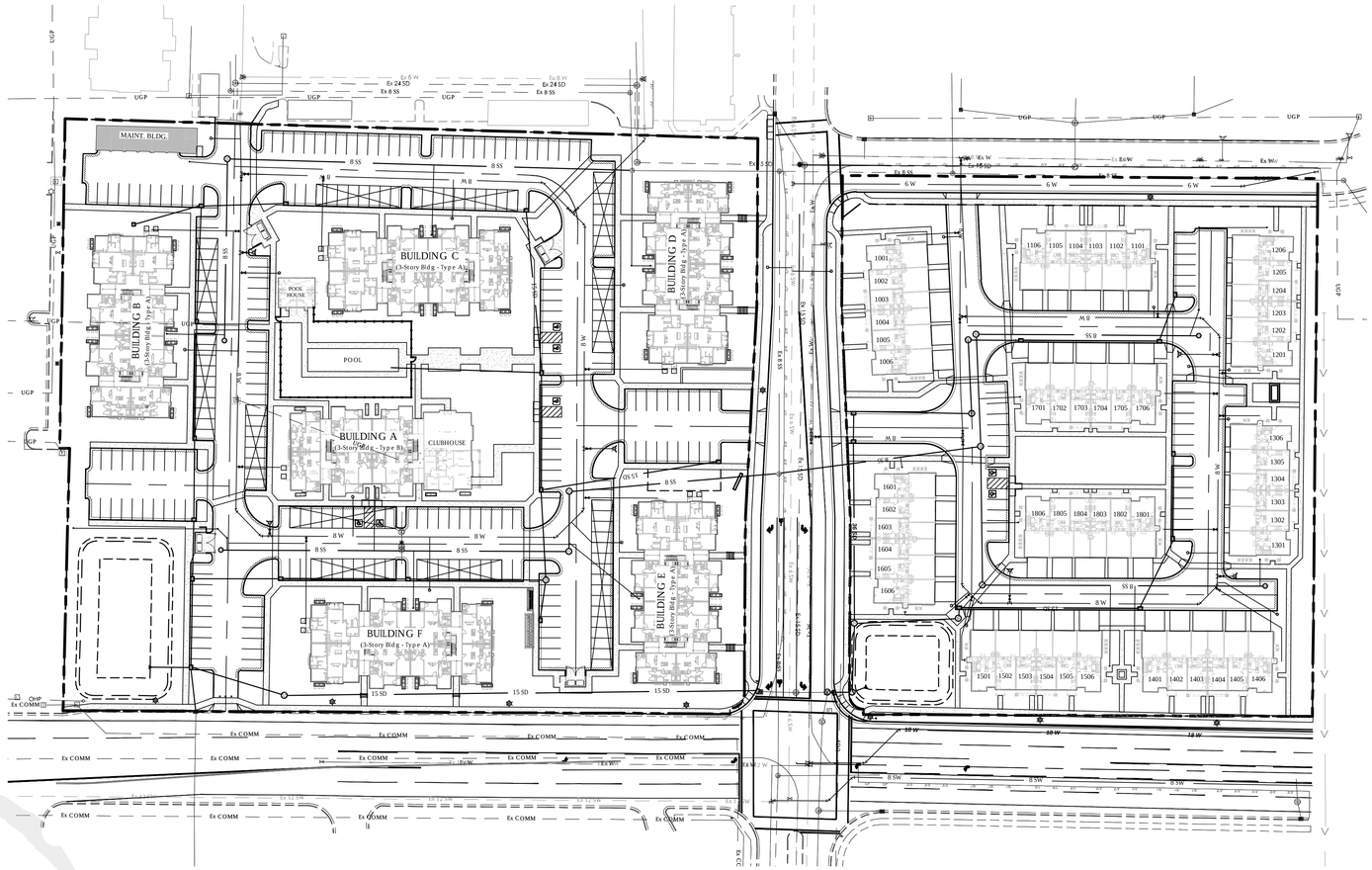
SAVAGE APTS. PH.2

PREPARED FOR:
WASATCH RESIDENTIAL GROUP
LOCATED IN:
AMERICAN FORK CITY



VICINITY MAP
NTS



SITE MAP

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Sheet Number	Sheet Title
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C3.0	SITE PLAN
C3.1	SITE TRIANGLES
C3.2	600 E STRIPING PLAN
C3.3	620 S STRIPING PLAN
C4.0	GRADING PLAN
C4.1	GRADING PLAN
C4.2	GRADING PLAN
C4.3	GRADING PLAN
C5.0	DRAINAGE PLAN
C5.1	DRAINAGE PLAN
C5.2	DRAINAGE PLAN
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C6.0	SEWER PLAN
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C7.0	WATER PLAN
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C8.0	EROSION CONTROL PLAN
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D1.0	DETAILS
D1.1	DETAILS
PP1.0	600 EAST
PP2.0	530 SOUTH
PP3.0	620 SOUTH

Company	Contact	Number
American Fork City Public Works		
-Culinary Water/Pressurized Irrigation	Jay Brems	(801)763-3060
-Sewer/Storm Water	Ashton Hardy	(801)763-3060
-City Inspector	Dee Howard	(801)763-3060
-SWPPP Inspector	Harlan Nielson	(801)763-3060
American Fork City Fire Marshal	Mat Sacco	(801)763-3045
AF Fiber	Will Davis	(801)897-9826
American Fork Irrigation Company	Ernie John	(801)471-6576
Century Link	K.C. Lunt	(432)623-4252
Comcast	Elysia Valdez	(801)401-3017
Dominion Energy	Trent Johnson	(801)853-6548
Rocky Mountain Power	Teria Walker	(801)756-1310
Timpanogos Special Service District	David Barlow	(801)756-5231

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

2. ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.

3. ALL CONSTRUCTION SHALL ADHERE TO AMERICAN FORK CITY STANDARD PLANS AND SPECIFICATIONS.

4. ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.

5. THIS DRAWING SET IS SCALED TO BE PRINTED ON A 24" X 36" SIZE OF PAPER (ARCH. D). IF PRINTED ON A SMALLER PAPER SIZE, THE DRAWING WILL NOT BE TO SCALE AND SHOULD NOT BE USED TO SCALE MEASUREMENTS FROM THE PAPER DRAWING. ALSO USE CAUTION, AS THERE MAY BE TEXT OR DETAIL THAT MAY BE OVERLOOKED DUE TO THE SMALL SIZE OF THE DRAWING.

NOTICE

BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

ENGINEER'S NOTES TO CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. IF UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

3. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

4. ALL CONTOUR LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTOURS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANTY THE ACCURACY OF SUCH LINEWORK. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTOURS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SPOT ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THE DESIGN DRAWINGS GOVERN ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILD-OUT OF THE INTENDED IMPROVEMENTS.

CONTACTS

ENGINEER & SURVEYOR
FOCUS ENGINEERING & SURVEYING, LLC
6949 S. HIGH TECH DRIVE SUITE 200
MIDVALE, UTAH 84047
(801) 352-0075
PROJECT MANAGER: ERIC WINTERS
SURVEY MANAGER: SPENCER LLEWELYN

OWNER/DEVELOPER
WASATCH RESIDENTIAL GROUP
620 SOUTH STATE STREET
SALT LAKE CITY, UTAH 84111
(801) 961-1184
CONTACT: ADAM LANKFORD

N
S

Know what's below. Call 811 before you dig.

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

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SAVAGE APTS. PH.2
AMERICAN FORK CITY
COVER SHEET

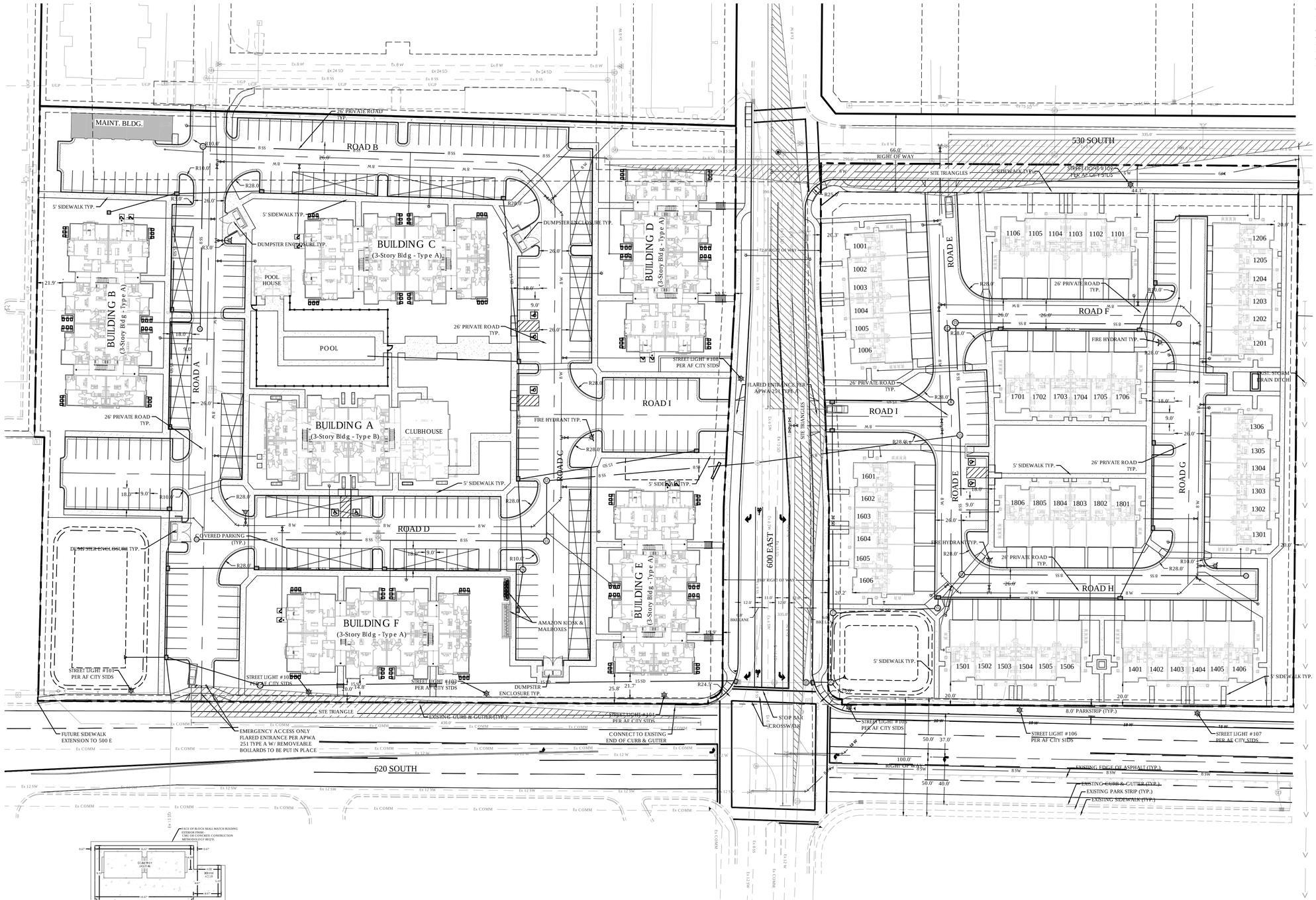
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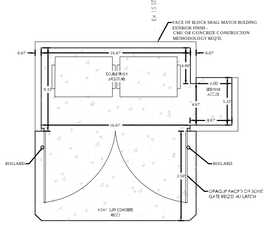
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COVER SHEET

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Sheet: C1

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DUMPSTER/TRASH ENCLOSURE DETAIL

NOTES:
1. ENCLOSURE SHALL BE 6' TALL MINIMUM.
2. ENCLOSURE EXTERIOR FINISH SHALL MATCH THE EXTERIOR OF THE BUILDING IT SUPPORTS.
3. ENCLOSURE DIMENSIONS MAY VARY DEPENDING UPON SPECIFIC NEEDS OF THE SITE. THE CITY SHALL HAVE THE ABILITY TO REVIEW AND RECOMMEND APPROPRIATE SIZE OF A GIVEN ENCLOSURE FOR A SPECIFIC USE.
4. ENCLOSURE SHALL BE LOCATED WHERE SUCH ENCLOSURE CAN BE GRANTED BY THE LAND USE AUTHORITY FOR A GIVEN ZONE IF IT CAN BE DEMONSTRATED THAT THE USE FOR THE SITE WILL NOT CREATE A NUISANCE OR HEALTH HAZARD. IF THE PCCA OF CONTAINER - CURB SIDE CONTAINER MUST BE AVAILABLE IN THAT AREA TO QUALIFY FOR AN EXCEPTION.

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15 SD — 15" STORM DRAIN
- 8 SS — 8" SANITARY SEWER
- 8 W — 8" CULINARY WATER
- 8 SW — 8" SECONDARY WATER
- XXXX — CONTOUR MAJOR
- XXXX — CONTOUR MINOR
- Ex SD — EXIST. STORM DRAIN
- Ex SS — EXIST. SANITARY SEWER
- Ex W — EXIST. CULINARY WATER
- X — EXIST. FENCE
- (XXXX) — EXIST. CONTOUR MAJOR
- (XXXX) — EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- o XXXX.XX — SPOT ELEVATION

PROJECT DENSITY TABULATION

OVERALL PROJECT DENSITY BASED ON THE 2015 APPLICATION WITH 32.38 ACRES	450 UNITS (13.9 UNITS/ACRE)
PHASE 1 TOTAL UNITS (EXISTING) (144 STACKED FLAT UNITS & 108 TOWNHOME UNITS)	252 UNITS
PHASE 2 TOTAL UNITS (PROPOSED) (142 STACKED FLAT UNITS & 54 TOWNHOME UNITS)	196 UNITS
FINAL PROJECT DENSITY	448 UNITS (13.8 UNITS/ACRE)

PHASE 2 - SITE TABULATION

STACKED FLATS		TOWNHOME	
TOTAL ACREAGE	6.62 ACRES	TOTAL ACREAGE	4.16 ACRES
TOTAL UNITS	142 UNITS	ROAD DEDICATION	0.22 ACRES
DENSITY	21.5 UNITS/AC	FINAL ACREAGE	3.94 ACRES
		TOTAL UNITS	54 UNITS
		DENSITY	13.7 UNITS/ACRE

PHASE 2 - OVERALL PARKING

STACKED FLATS - TOTAL	142 UNITS
(3-BEDROOM UNITS	36 UNITS)
(2-BEDROOM UNITS	72 UNITS)
(1-BEDROOM UNITS	34 UNITS)
TOWNHOMES	54 UNITS
(ALL ARE 3-BEDROOM UNITS)	
TOTAL UNITS	196 UNITS
PARKING TOTAL	461 STALLS
SURFACE PARKING	195 STALLS
COVERED PARKING	99 STALLS
SURFACE ADA PARKING	5 STALLS
COVERED ADA PARKING	2 STALLS
GARAGE PARKING	89 STALLS
GARAGE ADA VAN PARKING	1 STALL
DRIVEWAY PARKING:	70 STALLS
PARKING RATIO:	2.35 STALLS/UNIT

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Know what's below. Call 811 before you dig.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

SITE PLAN

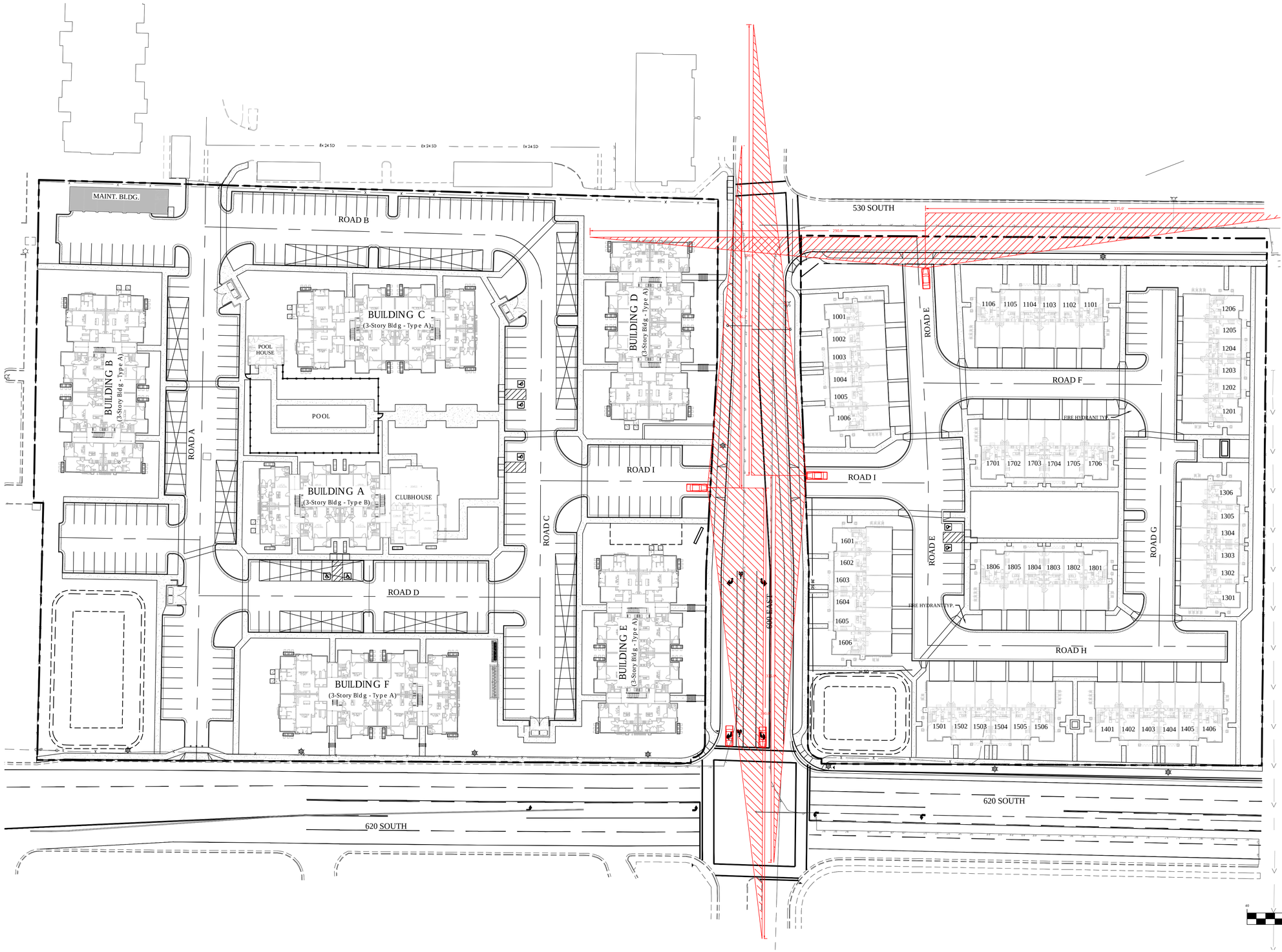
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SITE PLAN

Scale:	1"=40'	Drawn:	WE
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Sheet:	C3.0		

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15 SD — 15" STORM DRAIN
- 8 SS — 8" SANITARY SEWER
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- o XXXX.XX — SPOT ELEVATION

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

SITE TRIANGLES

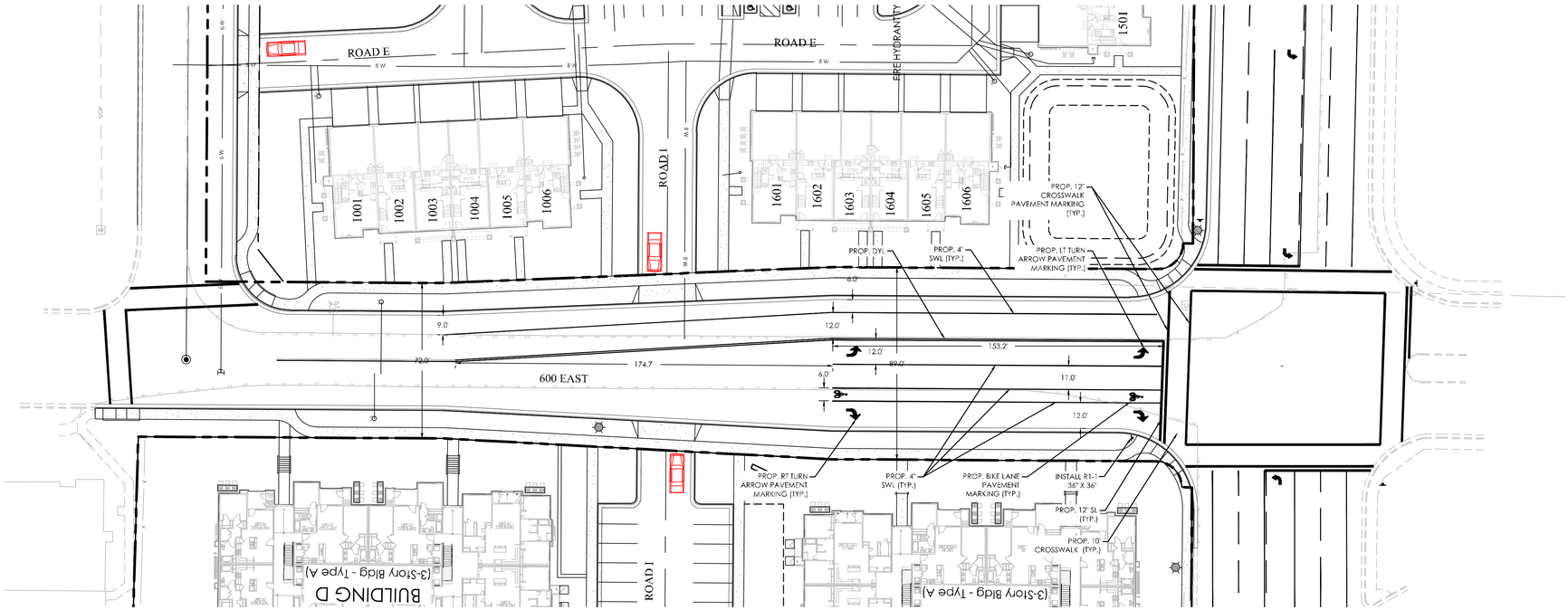
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SITE TRIANGLES

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Sheet: C3.1

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
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- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION

STRIPING KEY:

SWL	- SOLID WHITE LINE
SYL	- SOLID YELLOW LINE
DYL	- DOUBLE YELLOW LINE
BWL	- BROKEN WHITE LINE
DWL	- DOTTED WHITE LINE
LDL	- LANE DROP LINE
S&BYL	- SOLID AND BROKEN YELLOW LINE
SL	- STOP LINE



R1-1

N

S

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

600 E STRIPING PLAN

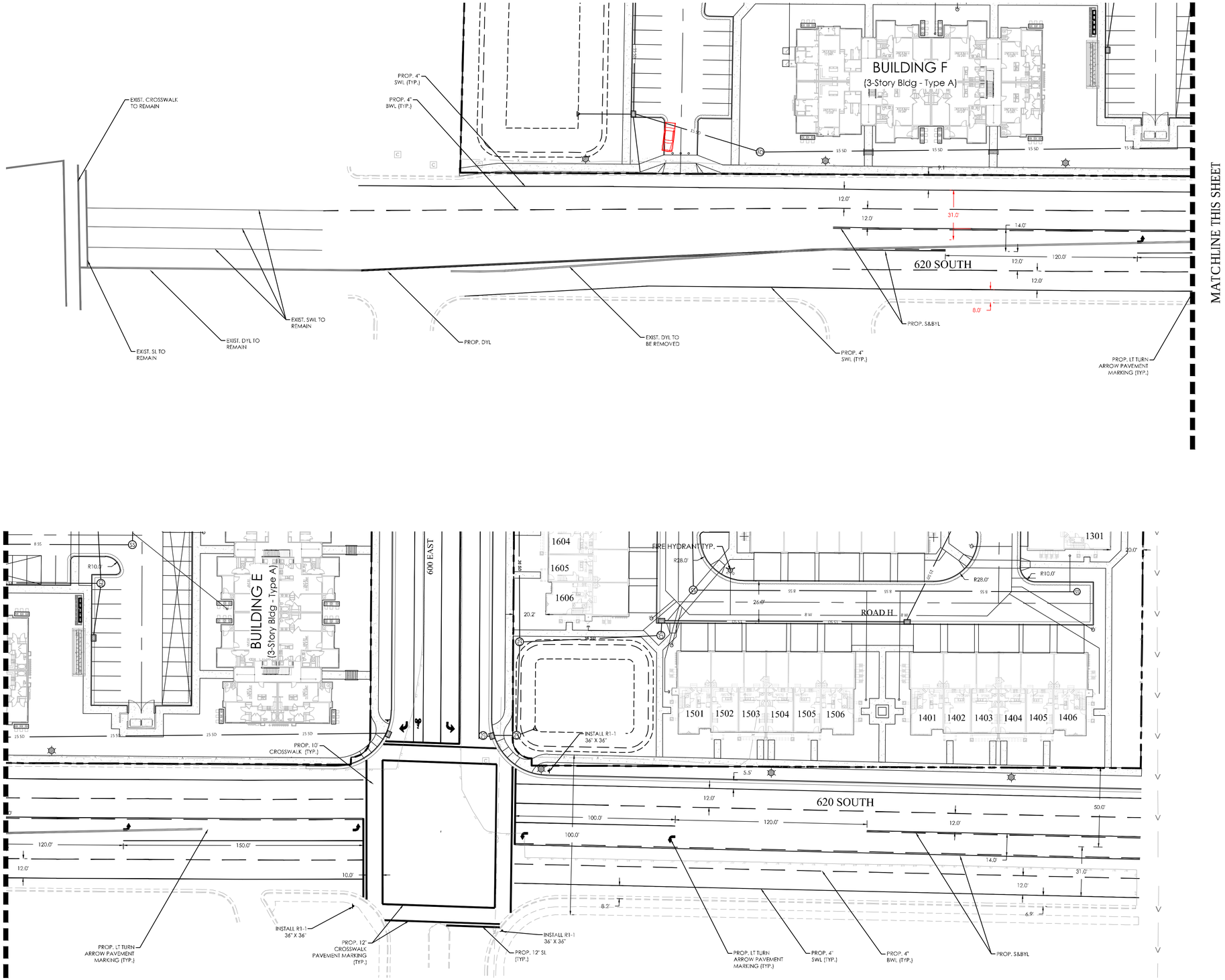
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600 E STRIPING PLAN

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
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R1-1



GRAPHIC SCALE

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(IN FEET)
1 inch = 30 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

620 S STRIPING PLAN

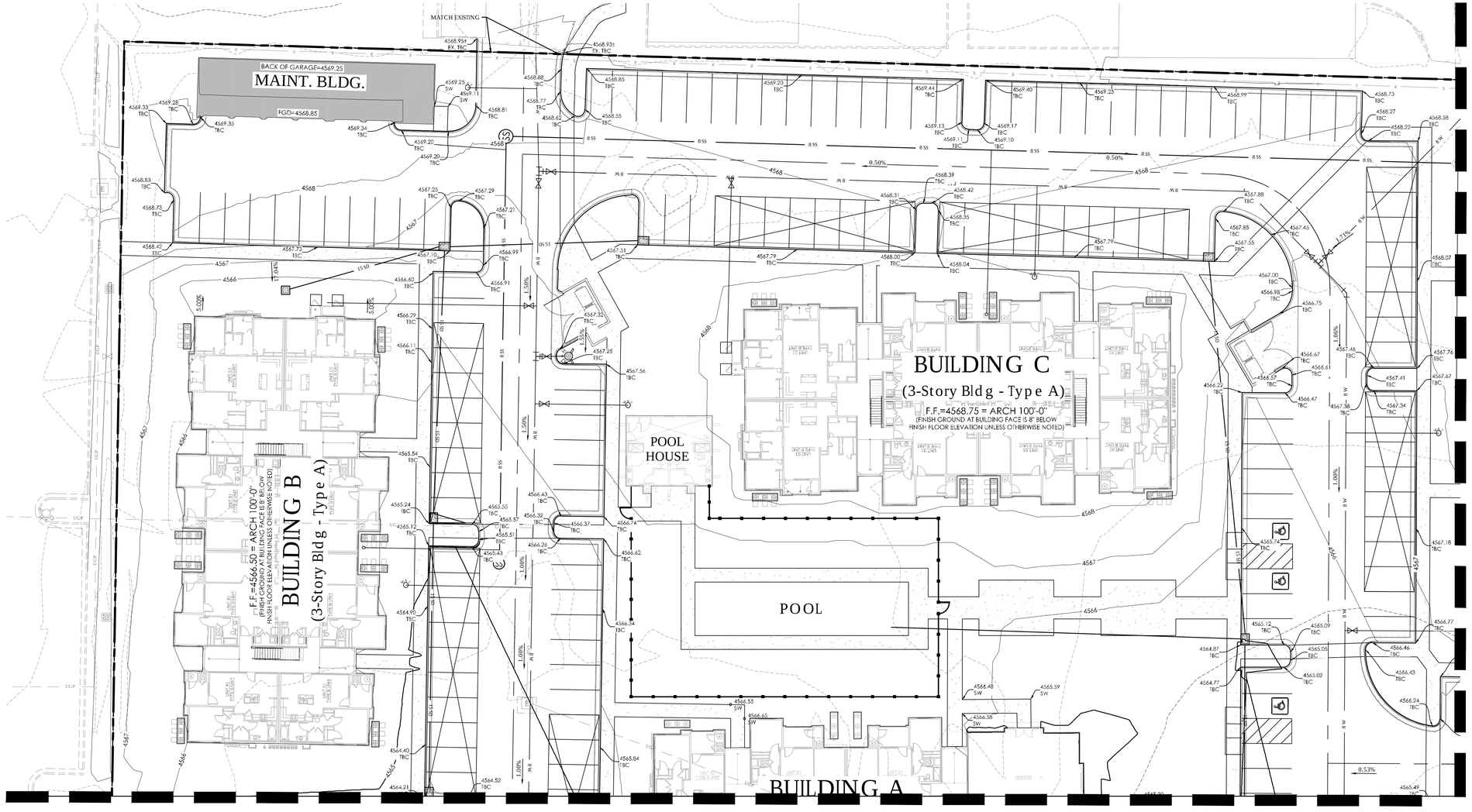
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620 S STRIPING PLAN

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
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- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

GRADING PLAN

REVISION BLOCK

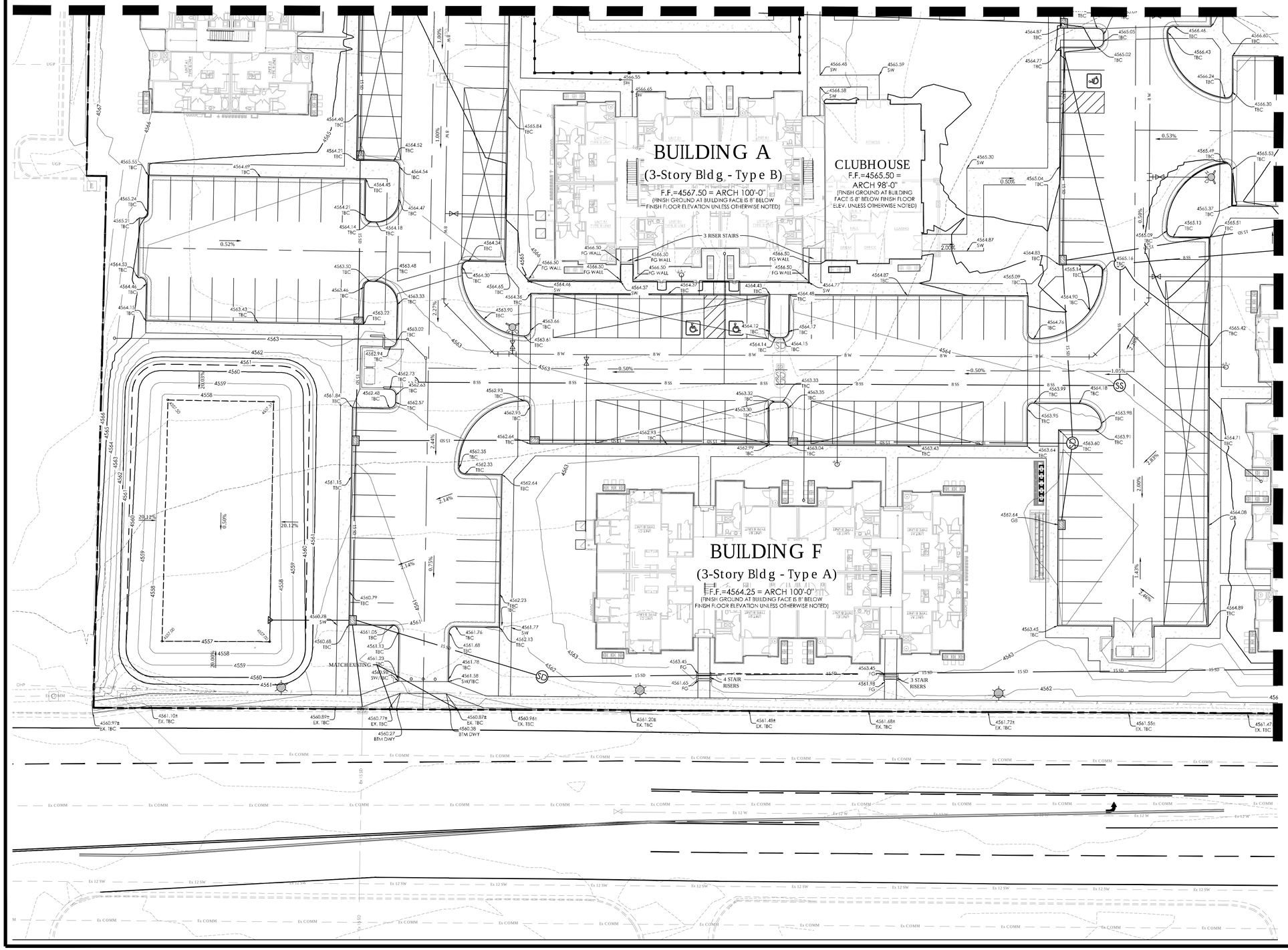
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GRADING PLAN

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MATCH LINE SEE SHEET C4.0



LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
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- SPOT ELEVATION

N

S

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

GRADING PLAN

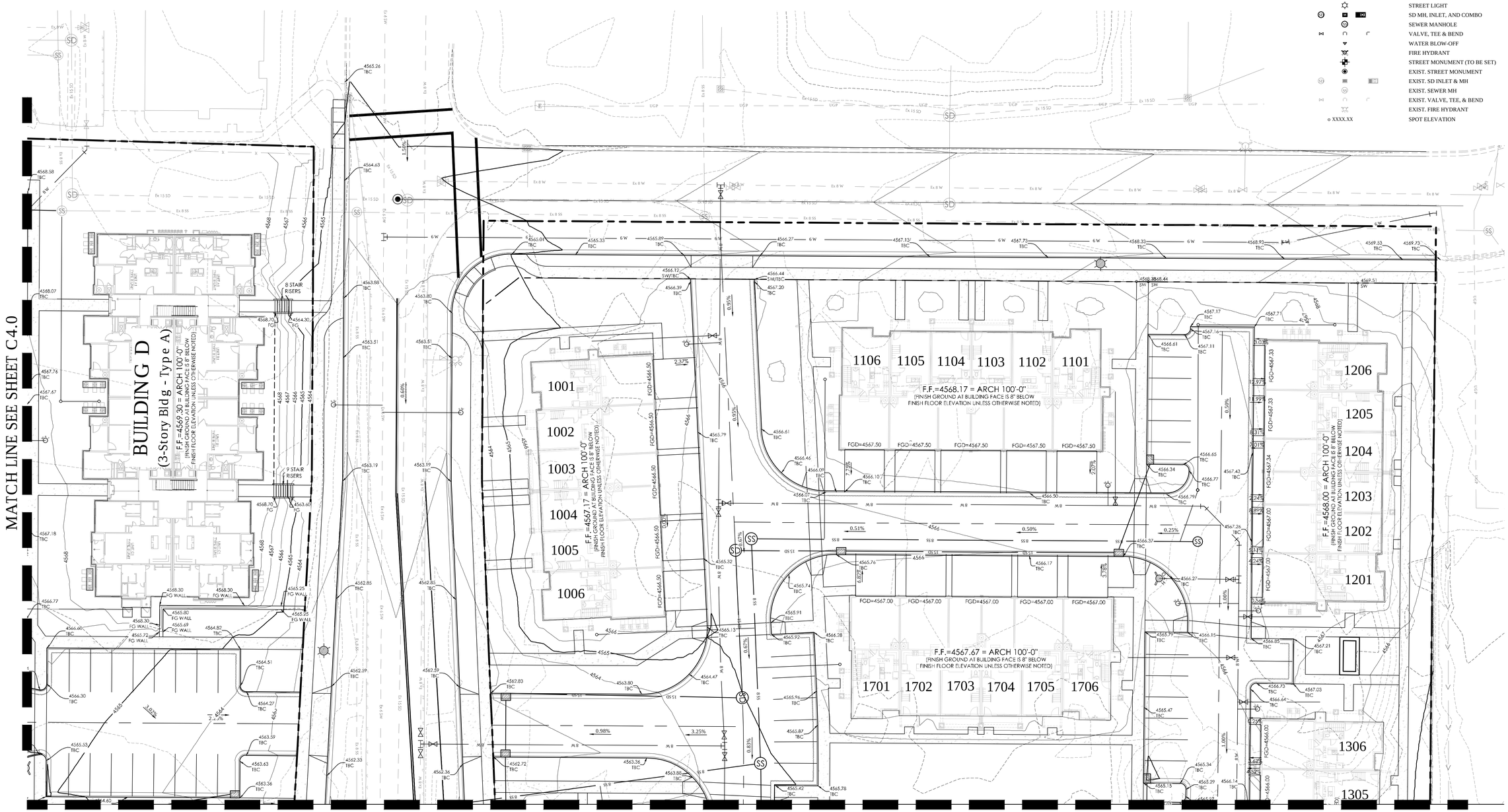
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GRADING PLAN

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
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- EXIST. FENCE
- EXIST. CONTOUR MAJOR
- EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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AMERICAN FORK CITY

GRADING PLAN

REVISION BLOCK

#	DATE	DESCRIPTION
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GRADING PLAN

Scale: 1"=20'	Drawn: WE
Date: 06/30/2020	Job #: 19-0368
Sheet: C4.2	

z:_2019\19-0368 park on 5th\design\19-0368 dwg\sheets\C4.2 GRADING PLAN.dwg

MATCH LINE SEE SHEET C4.2

MATCH LINE SEE SHEET C4.1

BUILDING E
(3-Story Bldg - Type A)
F.F.=4566.50 = ARCH 100'-0"
(FINISH GROUND AT BUILDING FACE IS 8" BELOW
FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED)

1601
1602
1603
1604
1605
1606
F.F.=4565.17 = ARCH 100'-0"
(FINISH GROUND AT BUILDING FACE IS 8" BELOW
FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED)

1806 1805 1804 1803 1802 1801
F.F.=4566.17 = ARCH 100'-0"
(FINISH GROUND AT BUILDING FACE IS 8" BELOW
FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED)

1306
1305
1304
1303
1302
1301
F.F.=4566.67 = ARCH 100'-0"
(FINISH GROUND AT BUILDING FACE IS 8" BELOW
FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED)

1501 1502 1503 1504 1505 1506
F.F.=4565.17 = ARCH 100'-0"
(FINISH GROUND AT BUILDING FACE IS 8" BELOW
FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED)

1401 1402 1403 1404 1405 1406
F.F.=4565.67 = ARCH 100'-0"
(FINISH GROUND AT BUILDING FACE IS 8" BELOW
FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED)

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. FENCE
- EXIST. CONTOUR MAJOR
- EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
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- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION

N

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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AMERICAN FORK CITY

GRADING PLAN

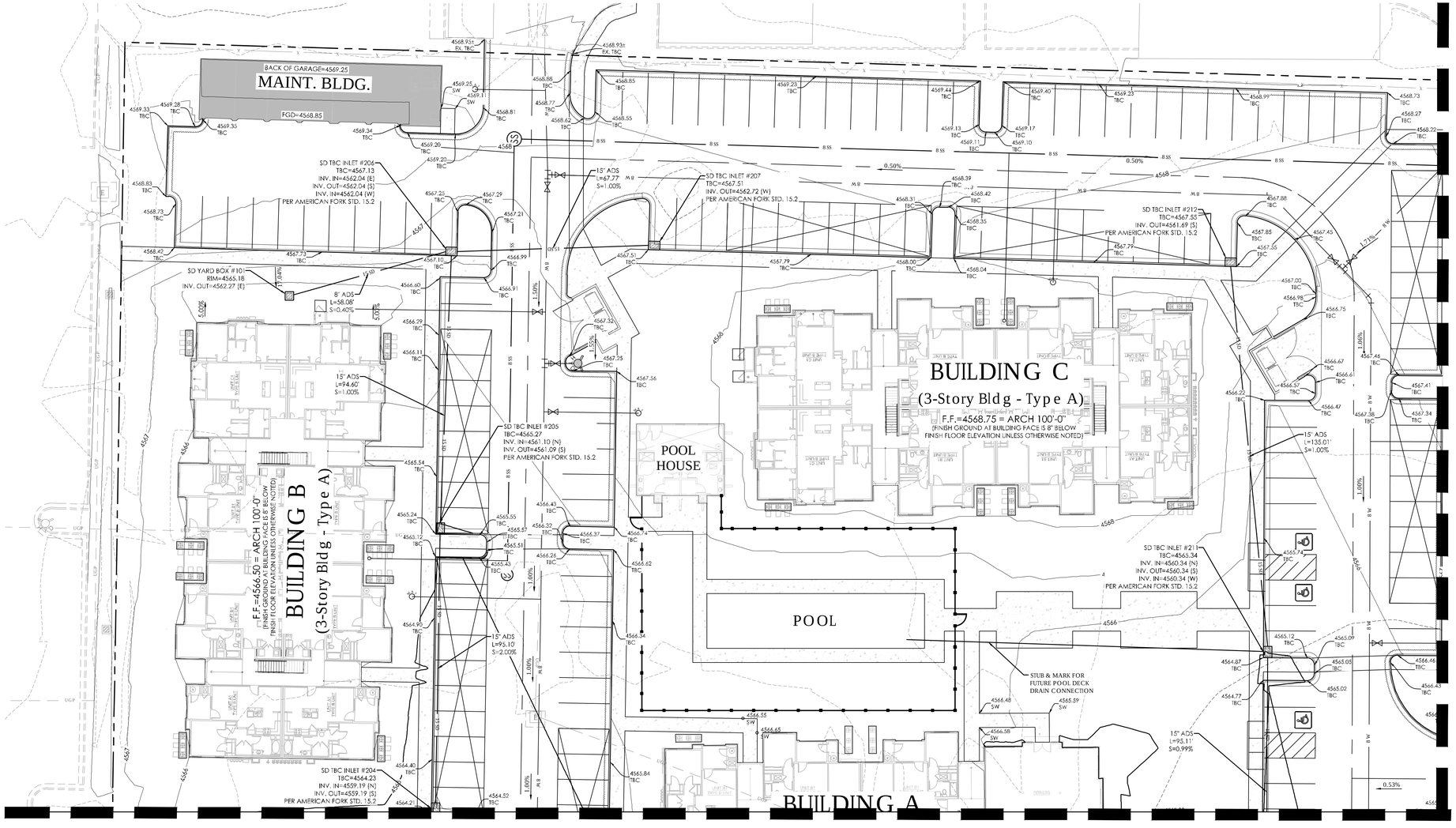
REVISION BLOCK

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GRADING PLAN

Scale: 1"=20' | Drawn: WE
Date: 06/30/2020 | Job #: 19-0368
Sheet: C4.3

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. FENCE
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- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION

UTILITY NOTES

SANITARY SEWER:

1. SANITARY SEWER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. ALL SANITARY SEWER MAINS AND LATERALS MUST BE INSPECTED AND APPROVED BY THE CITY INSPECTOR BEFORE TRENCH BACKFILLING IS COMPLETED.
3. ALL LATERAL CONNECTIONS SHALL BE "INSERT-A-TEE" OR WYE AT TEN O'CLOCK OR TWO O'CLOCK POSITIONING TO THE CENTER OF THE MAIN LINE AND SHALL BE ENCASED IN CONCRETE AFTER INSPECTION IS MADE.
4. A SEWER CLEANOUT BOX IS REQUIRED EVERY TIME THE PIPE CHANGES DIRECTION AND NOT TO EXCEED 75 FEET IN SPACING.

CULINARY (DOMESTIC) WATER:

1. CULINARY WATER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. CULINARY WATER LINES 12" OR SMALLER MAY BE PVC DR-14 C900 ELSE DUCTILE IRON CLASS 350 PIPE IS REQUIRED.
3. CULINARY MAINS SHALL INCLUDE THRUST BLOCKS.
4. CULINARY WATER SHALL HAVE A MINIMUM OF 48 INCHES OF COVER TO TOP OF PIPE.
5. ALL WATER LATERALS ARE TO BE 2 INCH POLY PIPE WITH COMPRESSION FITTINGS, UNLESS OTHERWISE NOTED ON PLANS.

SECONDARY WATER:

1. SECONDARY WATER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.

STORM DRAINAGE:

1. STORM DRAINS SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. ALL BUILDING ROOF DRAIN LINES THAT DRAIN INTO HARDSCAPE AREAS (SUCH AS ALLEYS OR DRIVEWAYS) SHALL BE CONNECTED TO THE PROPOSED STORM DRAIN INFRASTRUCTURE.
3. ANY BUILDING ROOF DRAIN LINES ADJACENT TO LANDSCAPE AREAS SHALL BE DISCHARGED INTO THE LANDSCAPE AREAS.

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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AMERICAN FORK CITY

DRAINAGE PLAN

REVISION BLOCK

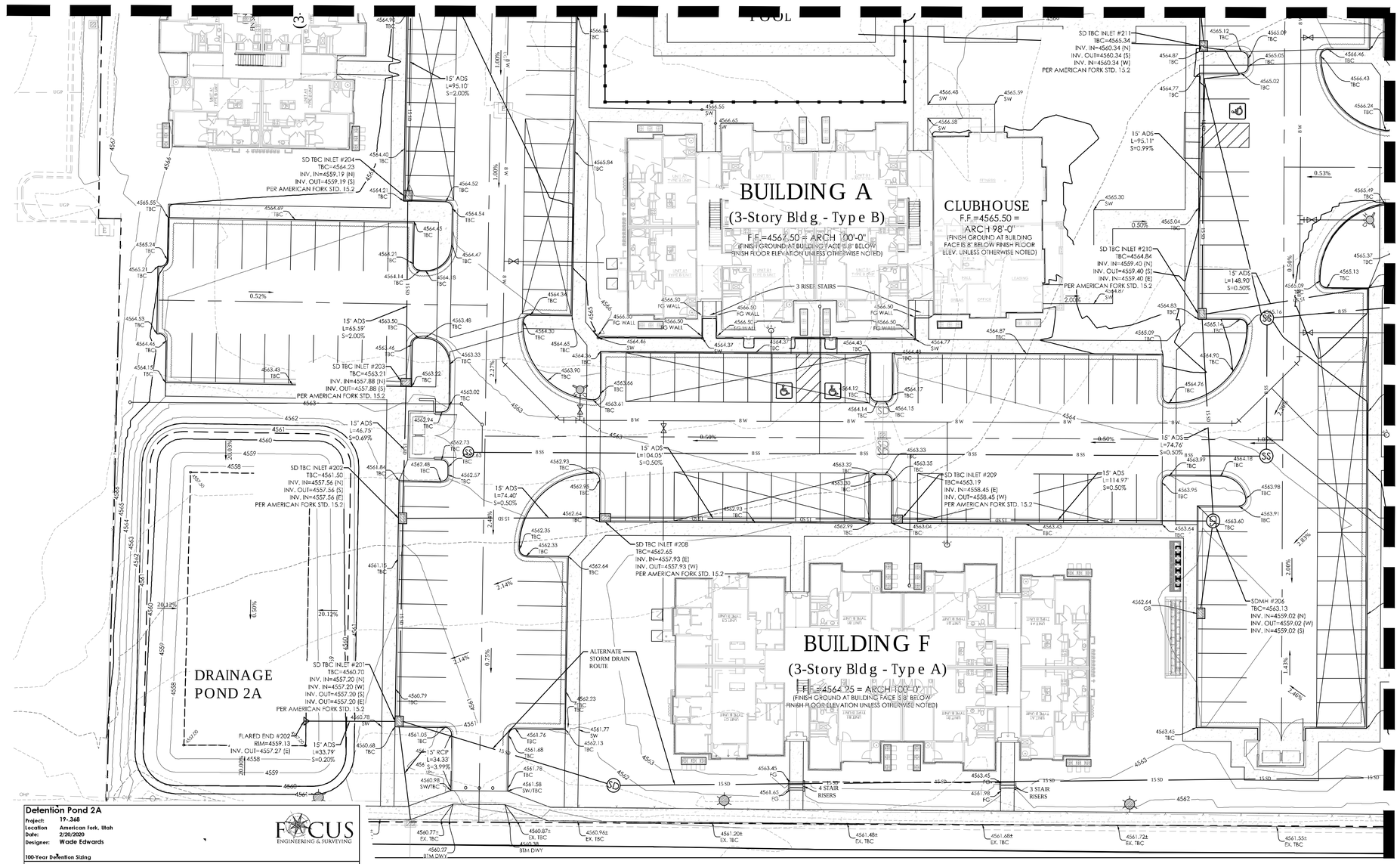
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DRAINAGE PLAN

Scale:	1"=20'	Drawn:	WE
Date:	06/30/2020	Job #:	19-0368
Sheet:	C5.0		

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MATCH LINE SEE SHEET C5.0



MATCH LINE SEE SHEET C5.3

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15 SD — 15" STORM DRAIN
- 8 SS — 8" SANITARY SEWER
- 8 W — 8" CULINARY WATER
- 8 SW — 8" SECONDARY WATER
- XXXX — CONTOUR MAJOR
- XXXX — CONTOUR MINOR
- Ex SD — EXIST. STORM DRAIN
- Ex SS — EXIST. SANITARY SEWER
- Ex W — EXIST. CULINARY WATER
- X — EXIST. FENCE
- (XXXX) — EXIST. CONTOUR MAJOR
- (XXXX) — EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- o XXXX.XX — SPOT ELEVATION

UTILITY NOTES

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3. ALL LATERAL CONNECTIONS SHALL BE "INSERT-A-TEE" OR WYE AT TEN O'CLOCK OR TWO O'CLOCK POSITIONING TO THE CENTER OF THE MAIN LINE AND SHALL BE ENCASED IN CONCRETE AFTER INSPECTION IS MADE.
4. A SEWER CLEANOUT BOX IS REQUIRED EVERY TIME THE PIPE CHANGES DIRECTION AND NOT TO EXCEED 75 FEET IN SPACING.

CULINARY (DOMESTIC) WATER:
1. CULINARY WATER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. CULINARY WATER LINES 12" OR SMALLER MAY BE PVC DR-14 C900 ELSE DUCTILE IRON CLASS 350 PIPE IS REQUIRED.
3. CULINARY MAINS SHALL INCLUDE THRUST BLOCKS.
4. CULINARY WATER SHALL HAVE A MINIMUM OF 48 INCHES OF COVER TO TOP OF PIPE.
5. ALL WATER LATERALS ARE TO BE 2 INCH POLY PIPE WITH COMPRESSION FITTINGS, UNLESS OTHERWISE NOTED ON PLANS.

SECONDARY WATER:
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2. ALL BUILDING ROOF DRAIN LINES THAT DRAIN INTO HARDSCAPE AREAS (SUCH AS ALLEYS OR DRIVEWAYS) SHALL BE CONNECTED TO THE PROPOSED STORM DRAIN INFRASTRUCTURE.
3. ANY BUILDING ROOF DRAIN LINES ADJACENT TO LANDSCAPE AREAS SHALL BE DISCHARGED INTO THE LANDSCAPE AREAS.

DRAINAGE POND 2A DATA:

TOP OF POND ELEV: 4560
HIGH WATER ELEV: 4559
BOTTOM OF POND ELEV: 4556
REQUIRED VOLUME: 21,172
DESIGNED VOLUME: 21,175.5

Detention Pond 2A

Project: 19-.368
Location American Fork, Utah
Date: 2/20/2020
Designer: Wade Edwards

FOCUS ENGINEERING & SURVEYING

100-Year Detention Sizing

Design Criteria

Intensity Tables: Per NOAA Atlas 14
Return Period: **100 year**
Allowable Discharge: **0.10 cfs/acre** Per American Fork City Standards

Allowable Discharges

Storm Drain Discharge: 0.66 cfs
Other Discharge: 0.00 cfs
Total Discharge: **0.662 cfs**

Weighted "C" Value

Surface Type	*Area (sf)*	*"C" Value*	*C*A*
Building	63,167	0.85	53,692
Roadway and Sidewalk	112,322	0.90	101,090
Landscape	112,722	0.15	16,908
Totals	288,210		171,690
Weighted 'C' Value		**0.60**	

Drainage Calculations

Duration	Intensity	Runoff C	Area	Rainfall	Accumulated Flow	Allowable Discharge	Discharge	Required Storage
min	*in/hr*		Ac	cfs	cf	cfs	cf	cf
15.0	3.99	0.60	6.62	15.73	14,154	0.66	595	13,558
30.0	2.69	0.60	6.62	10.60	19,064	0.66	1,191	17,894
60.0	1.66	0.60	6.62	6.54	23,554	0.66	2,382	21,172
120.0	0.90	0.60	6.62	3.56	25,654	0.66	4,764	20,890
180.0	0.61	0.60	6.62	2.42	26,094	0.66	7,146	18,948
360.0	0.33	0.60	6.62	1.30	28,010	0.66	14,291	13,718
720.0	0.19	0.60	6.62	0.74	32,181	0.66	28,583	3,598
1440.0	0.10	0.60	6.62	0.38	33,033	0.66	57,166	-24,133

Maximum Storage Requirement: ***21,172***
Maximum Storage Requirement (ac-ft): *0.49*

Detention Basin Design
Storage Requirement: 21,172 cf
Allowable Depth: 3.0 ft
Detention Pond Volume: 21,176 cf

Total Storage **21,176** *DETENTION ADEQUATE*

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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AMERICAN FORK CITY

DRAINAGE PLAN

REVISION BLOCK

#	DATE	DESCRIPTION
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DRAINAGE PLAN

Scale: 1"=20' | Drawn: WE
Date: 06/30/2020 | Job #: 19-0368
Sheet: C5.1

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UTILITY NOTES

SANITARY SEWER:

1. SANITARY SEWER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. ALL SANITARY SEWER MAINS AND LATERALS MUST BE INSPECTED AND APPROVED BY THE CITY INSPECTOR BEFORE TRENCH BACKFILLING IS COMPLETED.
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CULINARY (DOMESTIC) WATER:

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2. CULINARY WATER LINES 12" OR SMALLER MAY BE PVC DR-14 C900 ELSE DUCTILE IRON CLASS 350 PIPE IS REQUIRED.
3. CULINARY MAINS SHALL INCLUDE THRUST BLOCKS.
4. CULINARY WATER SHALL HAVE A MINIMUM OF 48 INCHES OF COVER TO TOP OF PIPE.
5. ALL WATER LATERALS ARE TO BE 2 INCH POLY PIPE WITH COMPRESSION FITTINGS, UNLESS OTHERWISE NOTED ON PLANS.

SECONDARY WATER:

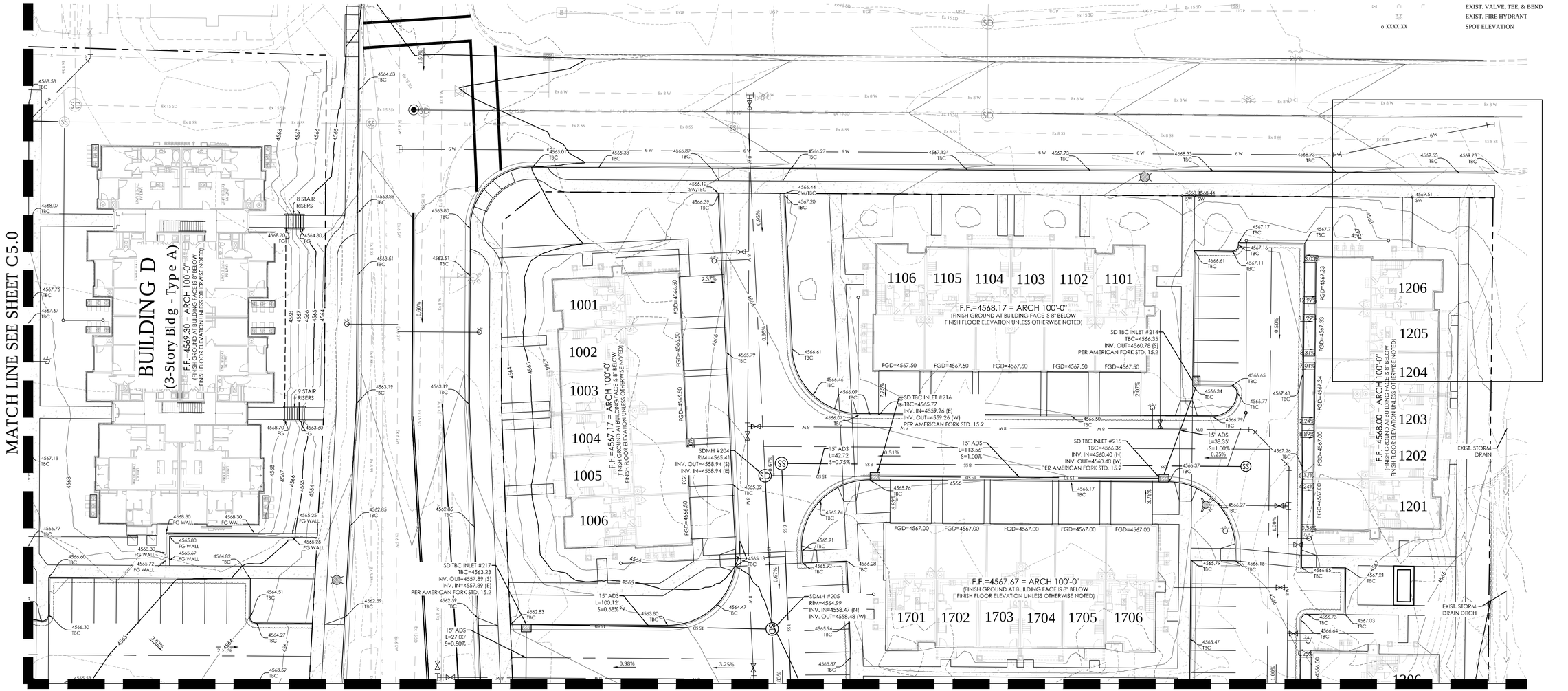
1. SECONDARY WATER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.

STORM DRAINAGE:

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2. ALL BUILDING ROOF DRAIN LINES THAT DRAIN INTO HARDSCAPE AREAS (SUCH AS ALLEYS OR DRIVEWAYS) SHALL BE CONNECTED TO THE PROPOSED STORM DRAIN INFRASTRUCTURE.
3. ANY BUILDING ROOF DRAIN LINES ADJACENT TO LANDSCAPE AREAS SHALL BE DISCHARGED INTO THE LANDSCAPE AREAS.

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
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- EXIST. SEWER MH
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- EXIST. FIRE HYDRANT
- SPOT ELEVATION



MATCH LINE SEE SHEET C5.3

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
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AMERICAN FORK CITY

DRAINAGE PLAN

REVISION BLOCK		
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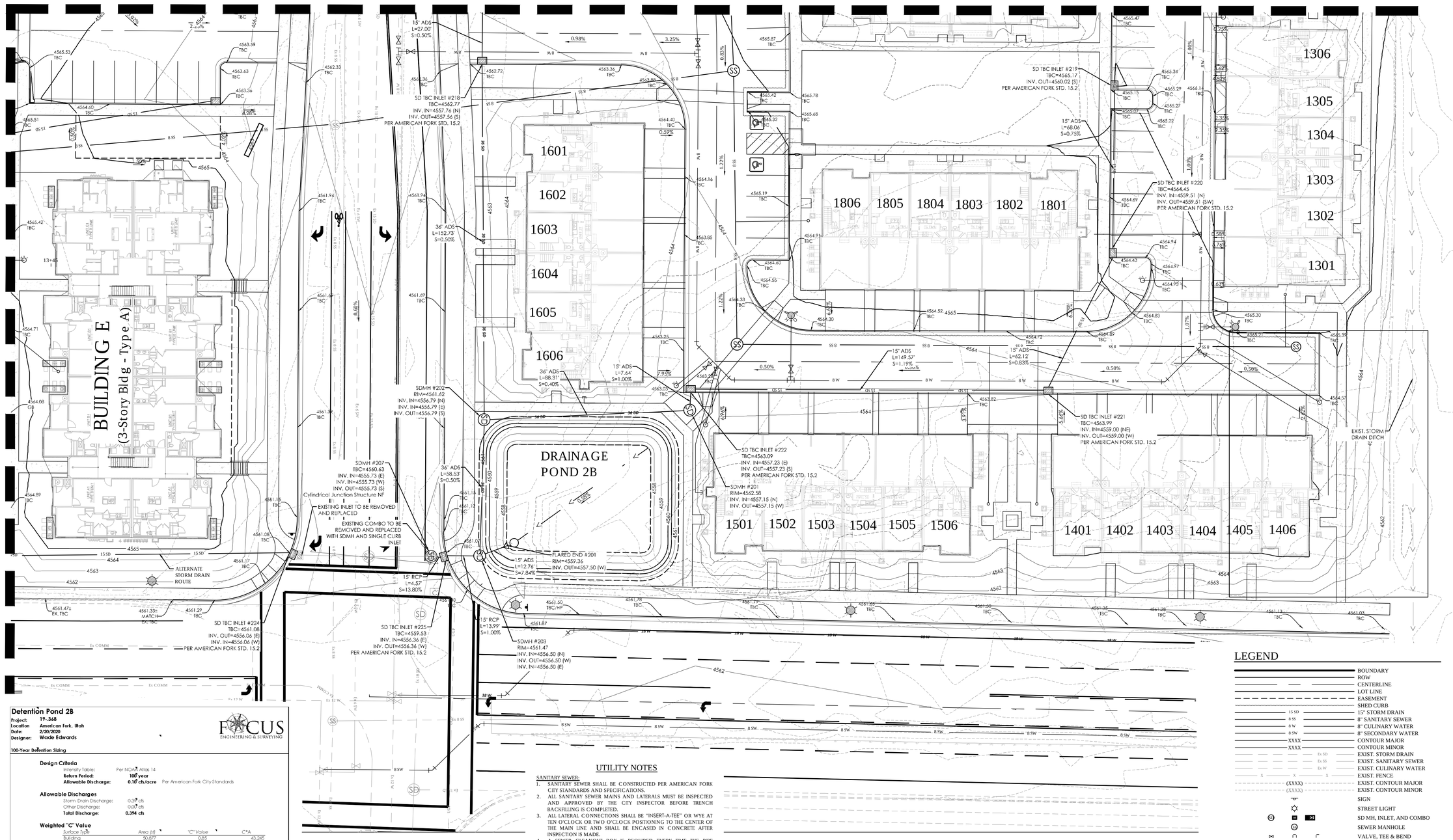
DRAINAGE PLAN

Scale:	1"=XX'	Drawn:	WE
Date:	06/30/2020	Job #:	19-0368
Sheet:	C5.2		

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MATCH LINE SEE SHEET C5.2

MATCH LINE SEE SHEET C5.1



Detention Pond 2B

Project: 19-368
Location American Fork, Utah
Date: 2/20/2020
Designer: Wade Edwards

FOCUS ENGINEERING & SURVEYING

100-Year Detention Sizing

Design Criteria

Intensity Table: Per NOAA Atlas 14
Return Period: 100 year
Allowable Discharge: 0.10 cfs/acre Per American Fork City Standards

Allowable Discharges

Storm Drain Discharge: 0.29 cfs
Other Discharge: 0.07 cfs
Total Discharge: 0.394 cfs

Weighted "C" Value

Surface Type	Area (sf)	"C" Value	C*A
Building	50,677	0.85	43,245
Drives	13,440	0.90	12,096
Roadway and Sidewalk	53,567	0.90	48,210
Landscape	53,676	0.15	8,051
Totals	171,560		111,603
Weighted "C" Value		**0.65**	

Drainage Calculations

Duration	Intensity	Runoff C	Area	Rainfall	Accumulated Flow	Allowable Discharge		Discharge	Required Storage
min	in/hr		Ac.	cfs	cf	cfs	cf	cf	cf
15.0	3.99	0.65	3.94	10.22	9,200	0.39	354		8,846
30.0	2.69	0.65	3.94	6.89	12,405	0.39	709		11,697
60.0	1.66	0.65	3.94	4.25	15,311	0.39	1,418		13,893
120.0	0.90	0.65	3.94	2.30	16,676	0.39	2,836		13,840
180.0	0.61	0.65	3.94	1.57	16,962	0.39	4,254		12,708
360.0	0.33	0.65	3.94	0.84	18,207	0.39	8,507		9,700
720.0	0.19	0.65	3.94	0.48	20,919	0.39	17,014		3,904
1440.0	0.10	0.65	3.94	0.25	21,472	0.39	34,028		-12,556

Maximum Storage Requirement: **13,893**
Maximum Storage Requirement (ac-ft): 0.32

Detention Basin Design

Storage Requirement: 13,893 cf
Allowable Depth: 3.0 ft
Detention Pond Volume: 12,333 cf
36" ADS Pipe (300 LF) Storage: 2,121 cf

Total Storage **14,454** *DETENTION ADEQUATE*

DRAINAGE POND 2B DATA:

TOP OF POND ELEV: 4561.5
HIGH WATER ELEV: 4560.5
BOTTOM OF POND ELEV: 4557.5
REQUIRED VOLUME: 13,893
DESIGNED VOLUME: 12,233

UTILITY NOTES

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2. CULINARY WATER LINES 12" OR SMALLER MAY BE PVC DR-14 C900 ELSE DUCTILE IRON CLASS 350 PIPE IS REQUIRED.
3. CULINARY MAINS SHALL INCLUDE THRUST BLOCKS.
4. CULINARY WATER SHALL HAVE A MINIMUM OF 48 INCHES OF COVER TO TOP OF PIPE.
5. ALL WATER LATERALS ARE TO BE 2 INCH POLY PIPE WITH COMPRESSION FITTINGS, UNLESS OTHERWISE NOTED ON PLANS.

SECONDARY WATER:

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LEGEND

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- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15 SD — 15" STORM DRAIN
- 8 SS — 8" SANITARY SEWER
- 8 W — 8" CULINARY WATER
- 8 SW — 8" SECONDARY WATER
- XXXX — CONTOUR MAJOR
- XXXX — CONTOUR MINOR
- Ex SD — EXIST. STORM DRAIN
- Ex SS — EXIST. SANITARY SEWER
- Ex W — EXIST. CULINARY WATER
- X X X — EXIST. FENCE
- (XXXX) — EXIST. CONTOUR MAJOR
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- STREET LIGHT
- SD MH, INLET, AND COMBO
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- VALVE, TEE & BEND
- WATER BLOW-OFF
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- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- XXXX.XX — SPOT ELEVATION

N

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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

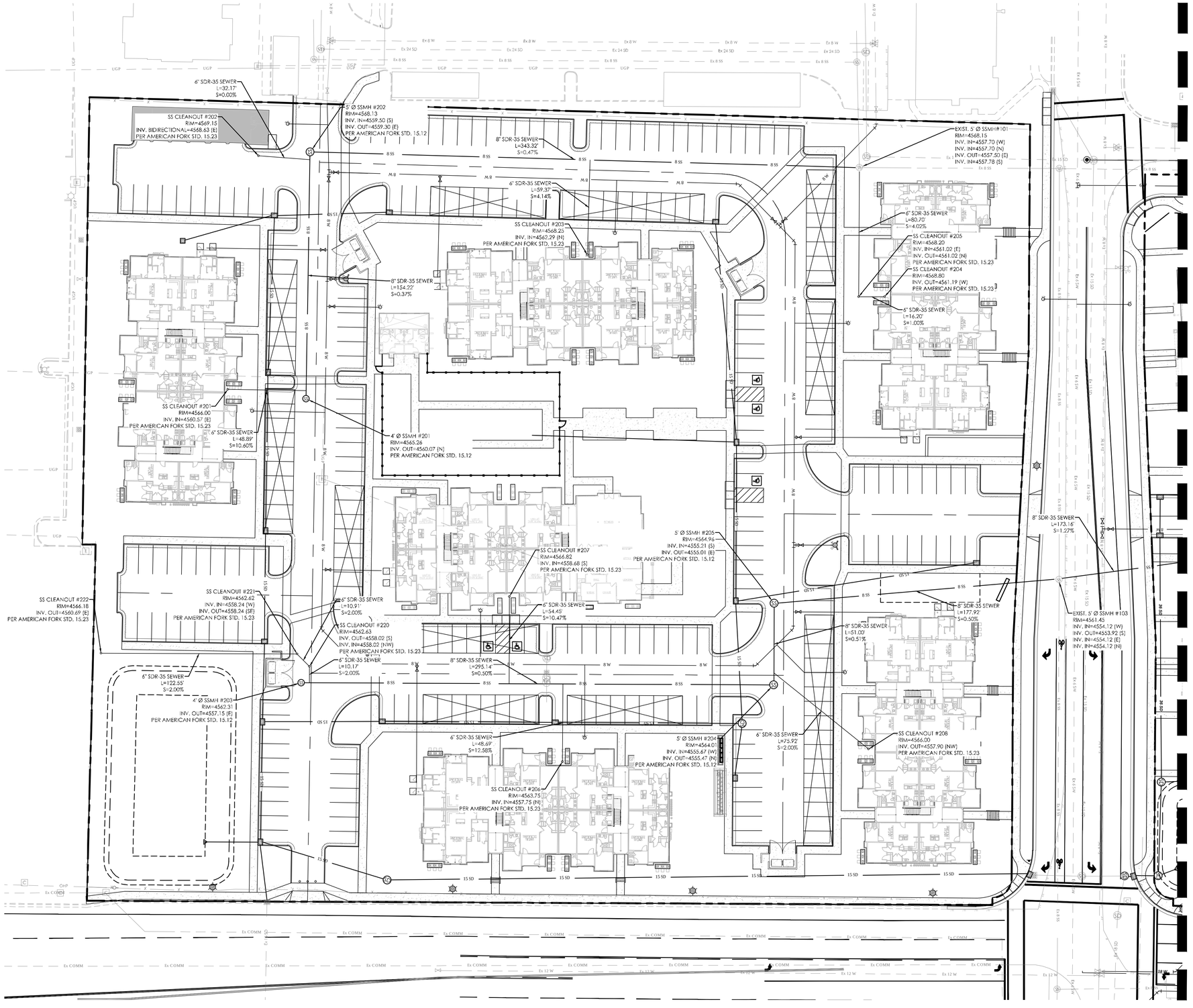
DRAINAGE PLAN

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DRAINAGE PLAN

Scale: 1"=20'
Drawn: WE
Date: 06/30/2020
Job #: 19-0368
Sheet: C5.3

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. FENCE
- EXIST. CONTOUR MAJOR
- EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION

UTILITY NOTES

SANITARY SEWER:

1. SANITARY SEWER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. ALL SANITARY SEWER MAINS AND LATERALS MUST BE INSPECTED AND APPROVED BY THE CITY INSPECTOR BEFORE TRENCH BACKFILLING IS COMPLETED.
3. ALL LATERAL CONNECTIONS SHALL BE "INSERT-A-TEE" OR WYE AT TEN O'CLOCK OR TWO O'CLOCK POSITIONING TO THE CENTER OF THE MAIN LINE AND SHALL BE ENCASED IN CONCRETE AFTER INSPECTION IS MADE.
4. A SEWER CLEANOUT BOX IS REQUIRED EVERY TIME THE PIPE CHANGES DIRECTION AND NOT TO EXCEED 75 FEET IN SPACING.

CULINARY (DOMESTIC) WATER:

1. CULINARY WATER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. CULINARY WATER LINES 12" OR SMALLER MAY BE PVC DR-14 C900 ELSE DUCTILE IRON CLASS 350 PIPE IS REQUIRED.
3. CULINARY MAINS SHALL INCLUDE THRUST BLOCKS.
4. CULINARY WATER SHALL HAVE A MINIMUM OF 48 INCHES OF COVER TO TOP OF PIPE.
5. ALL WATER LATERALS ARE TO BE 2 INCH POLY PIPE WITH COMPRESSION FITTINGS, UNLESS OTHERWISE NOTED ON PLANS.

SECONDARY WATER:

1. SECONDARY WATER SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.

STORM DRAINAGE:

1. STORM DRAINS SHALL BE CONSTRUCTED PER AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS.
2. ALL BUILDING ROOF DRAIN LINES THAT DRAIN INTO HARDSCAPE AREAS (SUCH AS ALLEYS OR DRIVEWAYS) SHALL BE CONNECTED TO THE PROPOSED STORM DRAIN INFRASTRUCTURE.
3. ANY BUILDING ROOF DRAIN LINES ADJACENT TO LANDSCAPE AREAS SHALL BE DISCHARGED INTO THE LANDSCAPE AREAS.

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GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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AMERICAN FORK CITY

SEWER PLAN

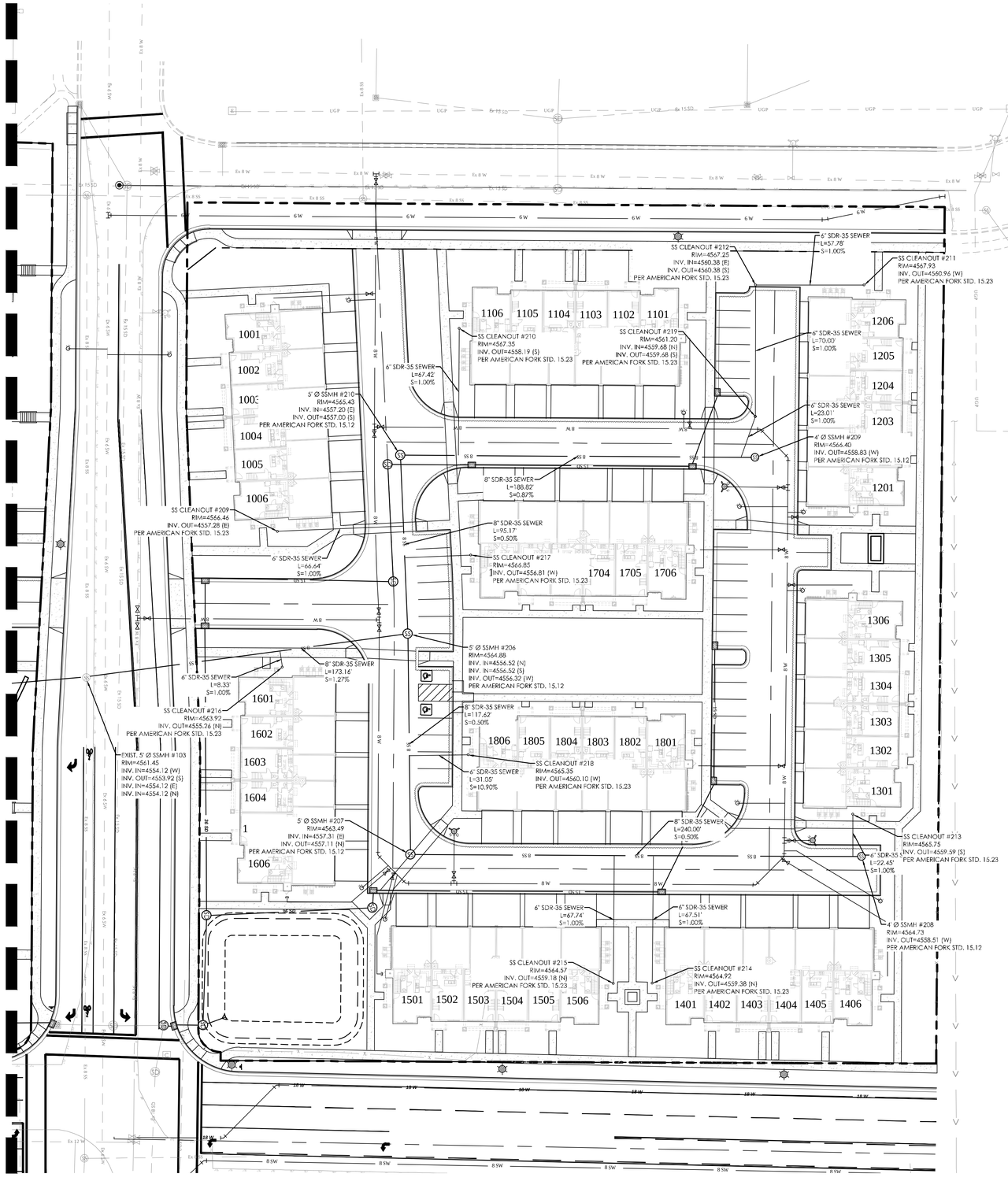
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SEWER PLAN

Scale: 1"=30'	Drawn: WE
Date: 06/30/2020	Job #: 19-0368
Sheet: C6.0	

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LEGEND

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- CENTERLINE
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- SHED CURB
- 15" STORM DRAIN
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SAVAGE APTS. PH.2

AMERICAN FORK CITY

SEWER PLAN

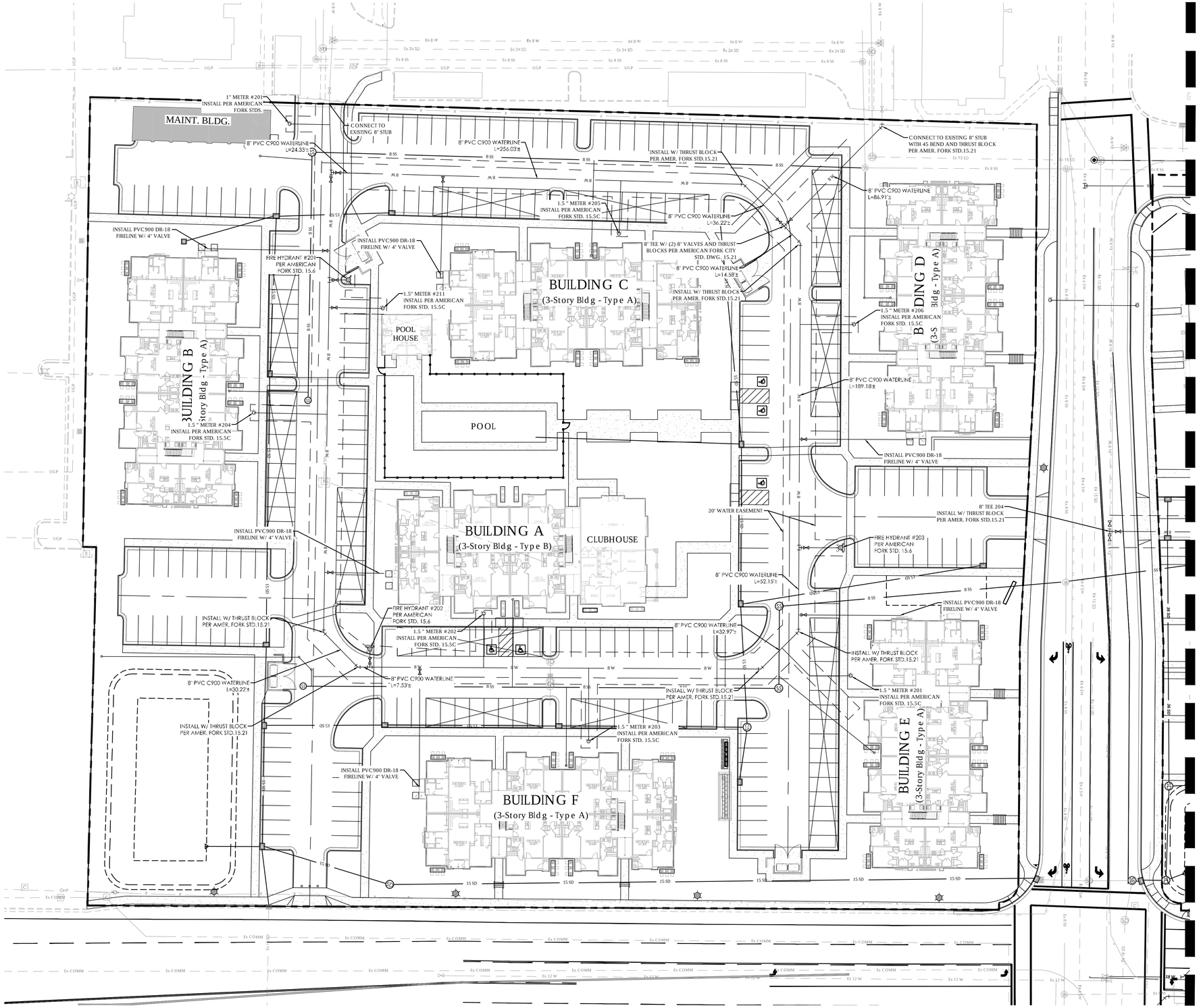
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SEWER PLAN

Scale: 1"=30' | Drawn: WE
Date: 06/30/2020 | Job #: 19-0368
Sheet: C6.1

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
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- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
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AMERICAN FORK CITY

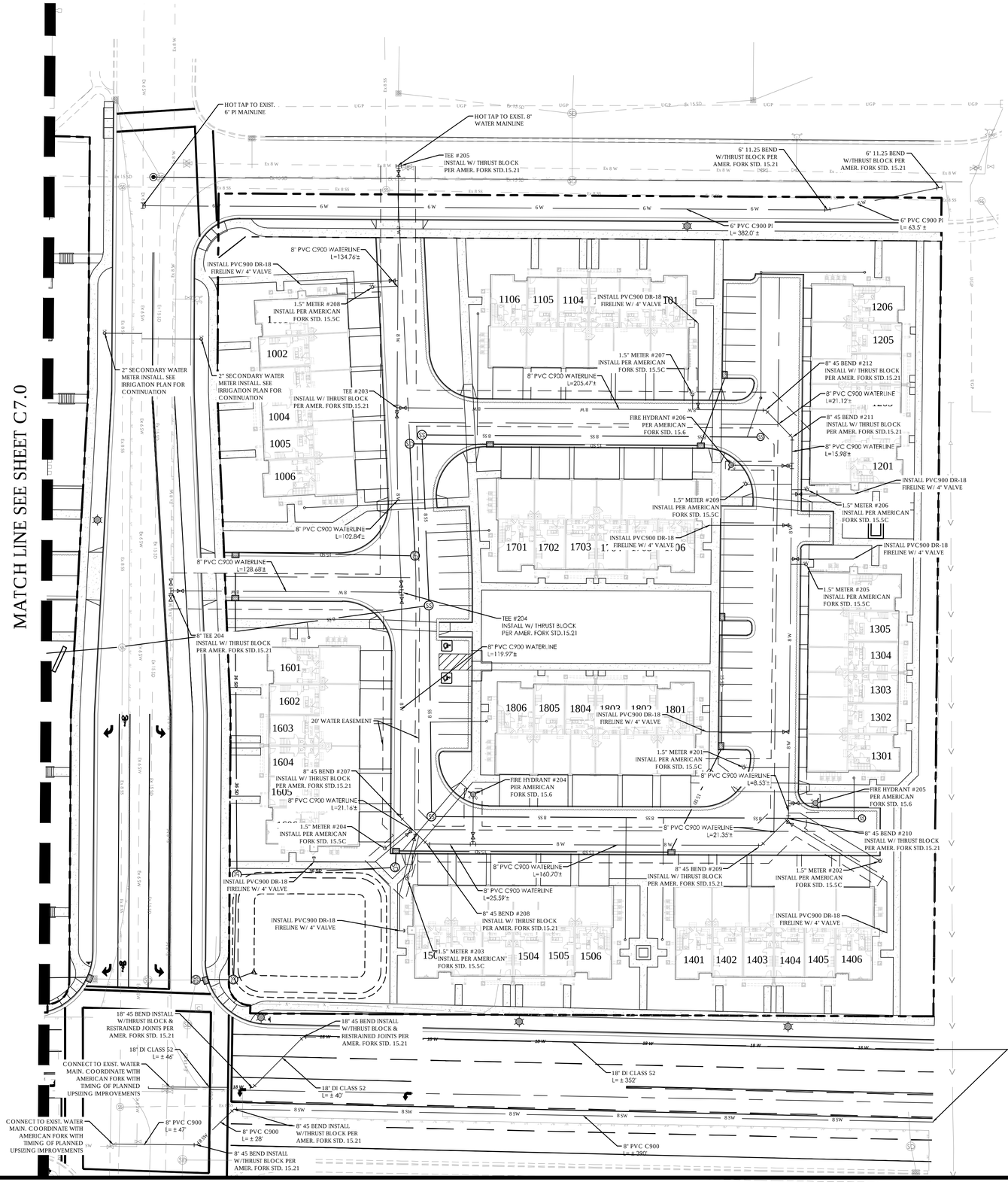
WATER PLAN

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WATER PLAN

Scale:	1"=30'	Drawn:	WE
Date:	06/30/2020	Job #:	19-0368
Sheet:	C7.0		

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LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15 SD — 15" STORM DRAIN
- 8 SS — 8" SANITARY SEWER
- 8 W — 8" CULINARY WATER
- 8 SW — 8" SECONDARY WATER
- XXXX — CONTOUR MAJOR
- XXXX — CONTOUR MINOR
- Ex SD — EXIST. STORM DRAIN
- Ex SS — EXIST. SANITARY SEWER
- Ex W — EXIST. CULINARY WATER
- X — EXIST. FENCE
- (XXXX) — EXIST. CONTOUR MAJOR
- (XXXX) — EXIST. CONTOUR MINOR
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GRAPHIC SCALE

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AMERICAN FORK CITY
WATER PLAN

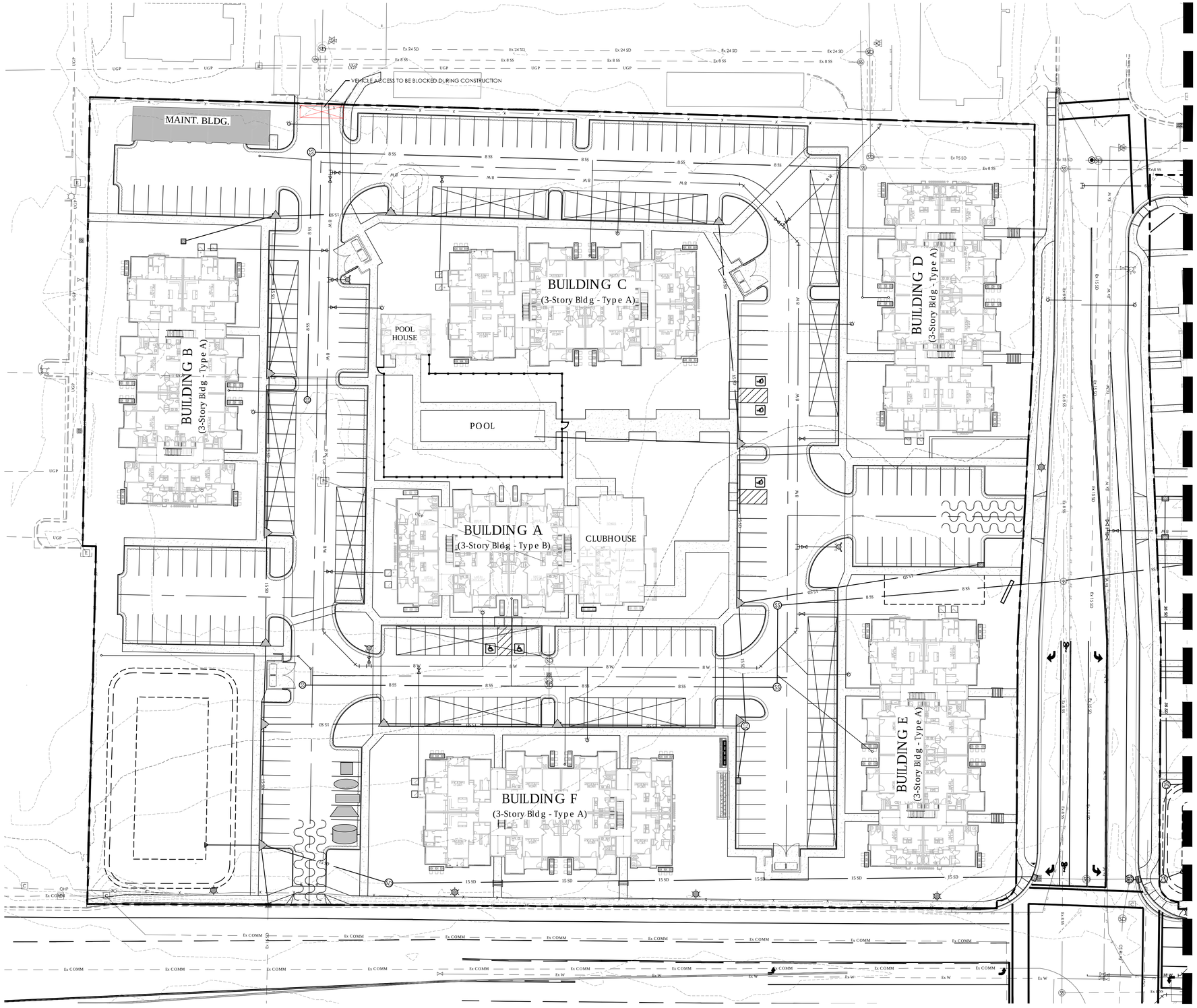
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WATER PLAN

Scale: 1"=30' | Drawn: WE
Date: 06/30/2020 | Job #: 19-0368
Sheet: C7.1

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EROSION CONTROL LEGEND

- CONSTRUCTION ENTRANCE
- MATERIALS STORAGE
- FUEL TANKS
- CONCRETE WASHOUT
- TRASH BIN
- PORTABLE TOILET
- CONSTRUCTION TRAILER
- INLET PROTECTION
- SURFACE WATERS
- OUTFALL
- SILT FENCE
- CUTBACK CURB
- FIBER ROLL

SWPPP DATA:

PROJECT LOCATION (LAT/LONG):
NORTHING: 40°21'53" EASTING: 111°46'55"

RECEIVING WATERS: UTAH LAKE

AREA AFFECTED:

1. TOTAL PROJECT AREA IS 10.8 ACRES. AN ESTIMATED 10.8 ACRES WITHIN THE PROJECT LIMITS WILL BE DISTURBED WITH NEW CONSTRUCTION OR CONTRACTOR STORAGE ACTIVITIES.
2. THE EXISTING DRAINAGE SYSTEM FOR THIS SITE CONSISTS OF EXISTING STORM DRAIN PIPING AND STRUCTURES.
3. THE MAJORITY OF EXISTING SITE GRADES RANGE FROM 1.0% TO 2.0%. THE PROPOSED GRADING RAISES THE SITE APPROXIMATELY 1' - 2' WITH ROADS OF APPROXIMATELY 0.5% - 2.0% TO PROVIDE THE PROPER DRAINAGE.
4. THE INITIAL SITE IS APPROXIMATELY 15% IMPERVIOUS. THE FINISHED SITE WILL BE APPROXIMATELY 70% IMPERVIOUS.

CONSTRUCTION ACTIVITIES:

1. THE PROJECT EXTENTS CONSIST OF 6 STACKED FLAT APARTMENT BUILDINGS, A POOL HOUSE AND RESTROOM, AND 9 TOWNHOME APARTMENT BUILDINGS. PLANNED ACTIVITIES INCLUDE CONSTRUCTION OF THE INFRASTRUCTURE, VERICAL CONSTRUCTION OF THE BUILDINGS, LANDSCAPING AND RELATED ACTIVITIES. OBTAIN UPDES "NOI" PERMIT AND ANY OTHER REQUIRED STORM WATER PERMIT PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. INSTALL BMP'S ACCORDING TO THE PHASE OF CONSTRUCTION AS INDICATED IN THIS SWPPP.
3. CONSTRUCTION ACTIVITIES WILL PROCEED AS FOLLOWS: ROUGH GRADING, UTILITY INFRASTRUCTURE, PARKING LOT AND DRIVE AISLE INFRASTRUCTURE, PUBLIC ROADWAYS, BUILDING CONSTRUCTION AND LANDSCAPING. AS NEW DRAINAGE ELEMENTS ARE COMPLETED, CONTRACTOR SHALL IMPLEMENT THE USE OF PROPER BMP'S AS OUTLINED IN SECTION 3.5.1B IN THE UPDES PERMIT REGULATIONS.
4. SITE STABILIZATION OF AREAS DISTRIBUTED BY CONSTRUCTION ACTIVITIES MUST BE FINISHED WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION AND PRIOR TO OBTAINING AN "NOT" PERMIT.
5. CLEAR SITE OF NON-ESSENTIAL MATERIALS AND CLEAN STREETS AND ASSOCIATED GUTTERS, UPON PROJECT COMPLETION AND OBTAINING "NOT" PERMIT. REMOVE TEMPORARY STORM WATER MEASURES AND PERFORM REQUIRED STORM DRAIN SYSTEM MAINTENANCE PRIOR TO RELEASE OF SYSTEM TO THE OWNER.

RUNOFF COEFFICIENTS OF DISCHARGE:

1. THE EXISTING RUNOFF COEFFICIENT FOR THE PROJECT AREA IS ESTIMATED TO BE 0.50. THE PROPOSED RUNOFF COEFFICIENT WILL BE APPROXIMATELY 0.63 FOR THE PROPOSED IMPROVEMENTS UPON COMPLETION OF IMPROVEMENTS.
2. DISCHARGE FROM THE SITE WILL BE THROUGH THE EXISTING STORM DRAIN SYSTEM.

GENERAL STORM WATER POLLUTION CONTROL NOTES:

1. FOR INSTALLATION PROCEDURES, SEE SWPPP DETAIL BEST MANAGEMENT PRACTICES (BMP) SPECIFICATIONS IN SECTION 5.
2. THE BMPS AND SITE WILL BE MONITORED REGULARLY, ANY ADDITIONAL BMPS THAT ARE NEEDED WILL BE DETERMINED DURING REGULAR INSPECTIONS AND INSTALLED ACCORDING TO SPECIFICATION. ANY CHANGES TO PROTECT BMPS WILL NEED TO BE REFLECTED ON THE SWPPP MAP(S).
3. SWPPP PLAN COMPILED FROM INFORMATION OBTAINED FROM MATERIAL PRODUCED BY:
   FOCUS ENGINEERING AND SURVEYING
   6949 S. HIGH TECH DRIVE, SUITE 200
   MIDVALE, UTAH 84047
   PH: (801) 352-0075

ALL INFORMATION SHOWN ON SWPPP MAPS WAS TAKEN OR DERIVED FROM THE ABOVE STATED SOURCE. ANY INFORMATION NOT DEPICTED WAS NOT PROVIDED AS PART OF THIS PROJECT.

SWPPP NOTES:

1. ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.
2. CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE.
3. ESTIMATED RUN OFF COEFFICIENT UPON COMPLETION OF CONSTRUCTION ACTIVITIES = 0.63

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GRAPHIC SCALE

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EROSION CONTROL PLAN

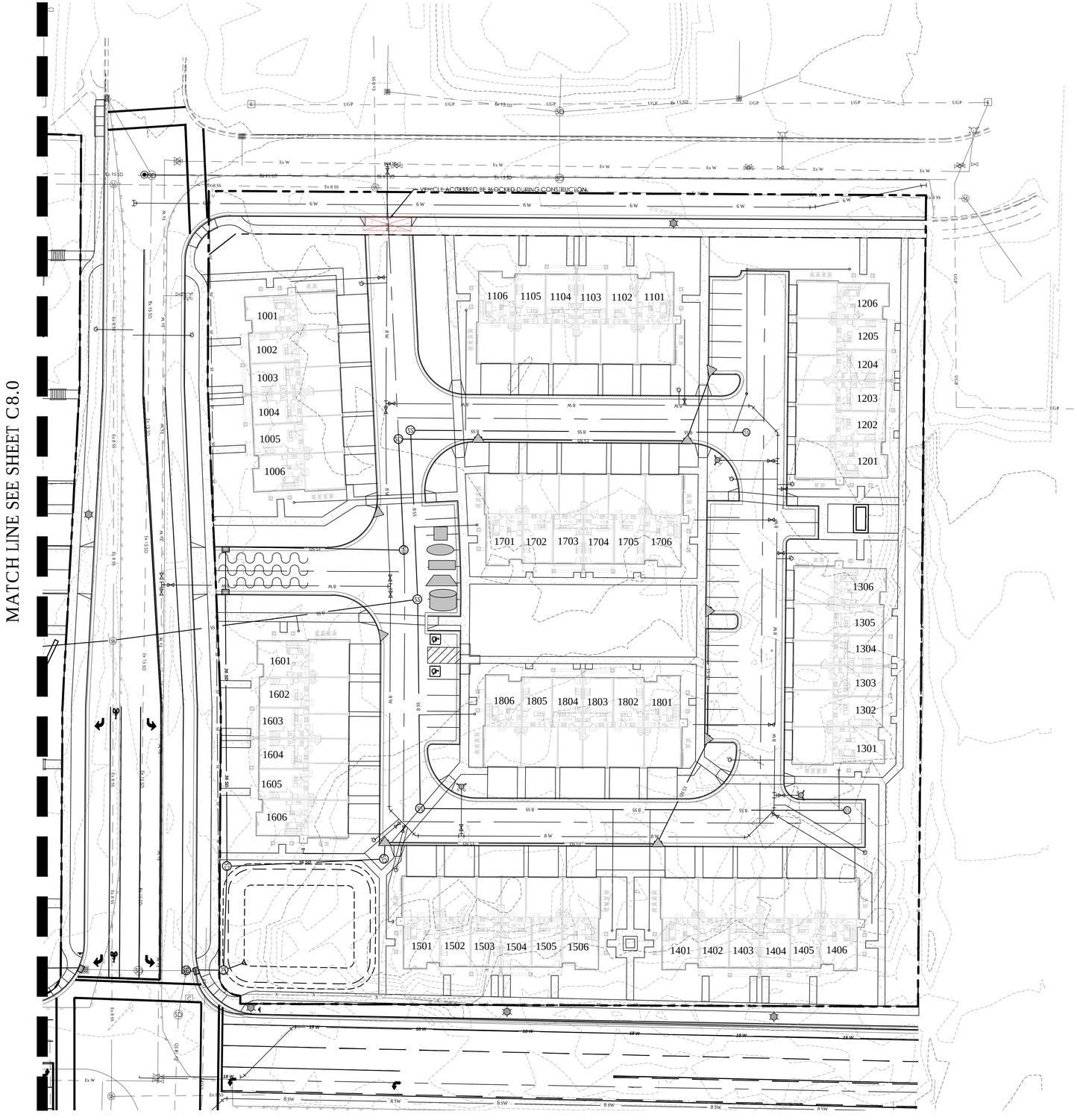
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EROSION CONTROL PLAN

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3. CONSTRUCTION ACTIVITIES WILL PROCEED AS FOLLOWS: ROUGH GRADING, UTILITY INFRASTRUCTURE, PARKING LOT AND DRIVE AISLE INFRASTRUCTURE, PUBLIC ROADWAYS, BUILDING CONSTRUCTION AND LANDSCAPING. AS NEW DRAINAGE ELEMENTS ARE COMPLETED, CONTRACTOR SHALL IMPLEMENT THE USE OF PROPER BMP'S AS OUTLINED IN SECTION 3.5.1B IN THE UPDES PERMIT REGULATIONS.
4. SITE STABILIZATION OF AREAS DISTRIBUTED BY CONSTRUCTION ACTIVITIES MUST BE FINISHED WITHIN 14 DAYS OF COMPLETION OF CONSTRUCTION AND PRIOR TO OBTAINING AN "NOT" PERMIT.
5. CLEAR SITE OF NON-ESSENTIAL MATERIALS AND CLEAN STREETS AND ASSOCIATED GUTTERS, UPON PROJECT COMPLETION AND OBTAINING "NOT" PERMIT. REMOVE TEMPORARY STORM WATER MEASURES AND PERFORM REQUIRED STORM DRAIN SYSTEM MAINTENANCE PRIOR TO RELEASE OF SYSTEM TO THE OWNER.

RUNOFF COEFFICIENTS OF DISCHARGE:

1. THE EXISTING RUNOFF COEFFICIENT FOR THE PROJECT AREA IS ESTIMATED TO BE 0.50. THE PROPOSED RUNOFF COEFFICIENT WILL BE APPROXIMATELY 0.63 FOR THE PROPOSED IMPROVEMENTS UPON COMPLETION OF IMPROVEMENTS.
2. DISCHARGE FROM THE SITE WILL BE THROUGH THE EXISTING STORM DRAIN SYSTEM.

GENERAL STORM WATER POLLUTION CONTROL NOTES:

1. FOR INSTALLATION PROCEDURES, SEE SWPPP DETAIL BEST MANAGEMENT PRACTICES (BMP) SPECIFICATIONS IN SECTION 5.
2. THE BMPS AND SITE WILL BE MONITORED REGULARLY, ANY ADDITIONAL BMPS THAT ARE NEEDED WILL BE DETERMINED DURING REGULAR INSPECTIONS AND INSTALLED ACCORDING TO SPECIFICATION. ANY CHANGES TO PROTECT BMPS WILL NEED TO BE REFLECTED ON THE SWPPP MAP(S).
3. SWPPP PLAN COMPILED FROM INFORMATION OBTAINED FROM MATERIAL PRODUCED BY: FOCUS ENGINEERING AND SURVEYING
   6949 S. HIGH TECH DRIVE, SUITE 200
   MIDVALE, UTAH 84047
   PH: (801) 352-0075

ALL INFORMATION SHOWN ON SWPPP MAPS WAS TAKEN OR DERIVED FROM THE ABOVE STATED SOURCE. ANY INFORMATION NOT DEPICTED WAS NOT PROVIDED AS PART OF THIS PROJECT.

N

S

SWPPP NOTES:

1. ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.
2. CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE.
3. ESTIMATED RUN OFF COEFFICIENT UPON COMPLETION OF CONSTRUCTION ACTIVITIES = 0.63

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

EROSION CONTROL PLAN

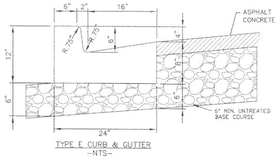
REVISION BLOCK

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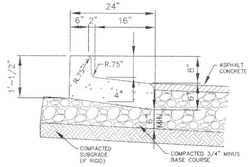
EROSION CONTROL PLAN

Scale: 1"=XX'	Drawn: WE
Date: 06/30/2020	Job #: 19-0368
Sheet: C8.1	

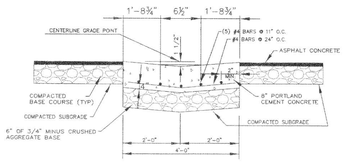
z:_2019\19-0368 part on 5th\design\19-0368 dwg\sheets\C8.1 EROSION CONTROL PLAN.dwg



TYPE E CURB & GUTTER
–NTS–

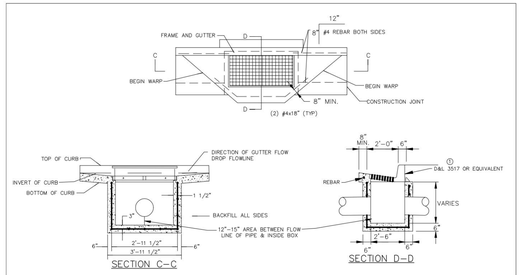


REVERSE LIP CURB & GUTTER "PRIVATE USE ONLY"
–NTS–



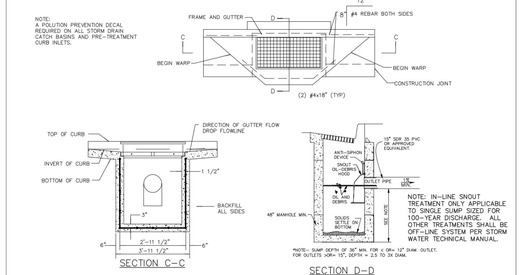
4.0' VALLEY GUTTER
–NTS–

DRAWN: JRP REVISED: DATE: MAY 2002 SCALE: VARIES	Northern ENGINEERING AND LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR TYPE B1 C&G REVERSE LIP C&G VALLEY GUTTER	DRAWING NO. 15.1



STORM DRAIN CATCH BASIN
–NTS–

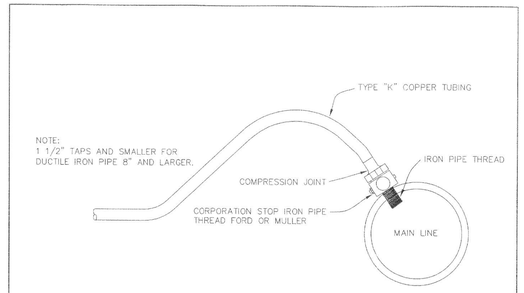
NOTE:
A POLUTION PREVENTION DECAL REQUIRED ON ALL STORM DRAIN CATCH BASINS AND PRE–TREATMENT CURB INLETS.



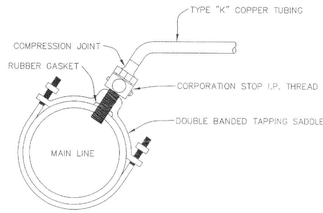
*NOTES: SUMP DEPTH OF 36" MIN. FOR 4 OR< 12" DIAM. OUTLET. FOR OUTLETS >OR= 15", DEPTH = 2.5 TO 3X DIAM.

PRE–TREATMENT CURB INLET WITH SINGLE GRATE
–NTS–

DRAWN: JRP REVISED: AJS DATE: APRIL 2012 SCALE: VARIES	AMERICAN FORK – 1853 –	AMERICAN FORK CITY	STANDARD DETAIL FOR CATCH BASIN	DRAWING NO. 15.2

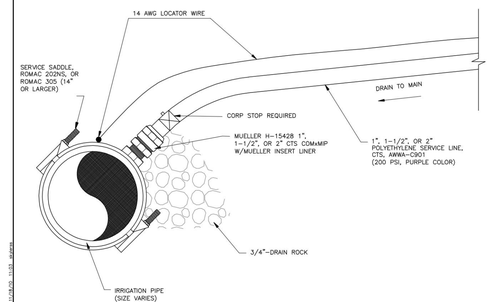


OPTION #2



OPTION #1

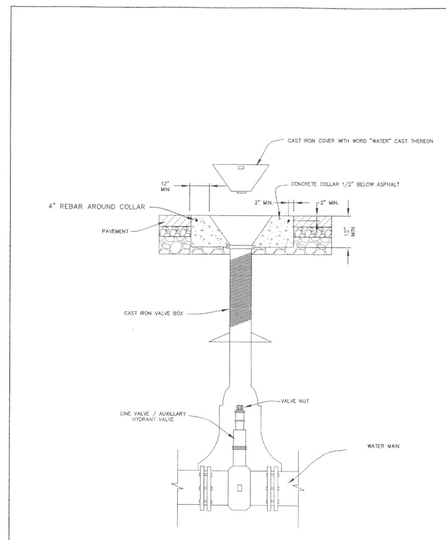
DRAWN: JRP REVISED: DATE: JULY 2002 SCALE: VARIES	Northern ENGINEERING AND LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR TYPICAL WATERMAN TAPS	DRAWING NO. 15.3



MUELLER 110 COMPRESSION INSERT LINER	
PART SIZE	PART NO.
1" CTS	504385
1 1/2" CTS	506139
2" CTS	506141

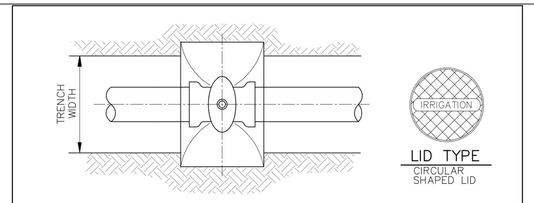
DRAWN: REVISED: 11/2010 DATE: SCALE:	HORROCKS ENGINEERS ONE WEST MAIN P.O. BOX 377 AMERICAN FORK (801) 763–5100	AMERICAN FORK CITY	STANDARD DETAIL FOR TYPICAL SECONDARY WATER MAIN TAP	DRAWING NO. 15.3A

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VALVE BOX DETAIL

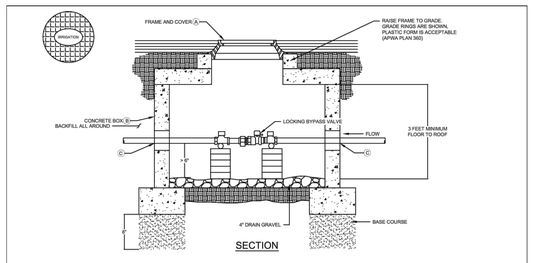
DRAWN: JRP REVISED: DATE: JULY 2002 SCALE: VARIES	Northern ENGINEERING AND LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR VALVE BOX DETAIL	DRAWING NO. 15.4

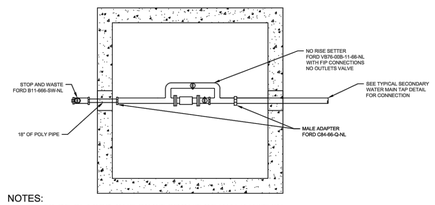


NOTES:
1. ALL BURIED VALVES SHALL BE PROVIDED WITH EXTENSION STEM OPERATOR WITH 2" SQ. A.W.W.A. NUT WITHIN 36" OF VALVE BOX COVER. NUT SHALL INDICATE THE DIRECTION OF ROTATION TO OPEN VALVE.
2. COAT BURIED PIPE AND VALVE BOX PER SPECIFICATIONS.
3. VALVE BOX SHALL BE CLEANED OF ALL DEBRIS AND SOIL.

VALVE BOX INSTALLATION

DRAWN: REVISED: 11/2010 DATE: SCALE: NONE	HORROCKS ENGINEERS ONE WEST MAIN P.O. BOX 377 AMERICAN FORK (801) 763–5100	AMERICAN FORK CITY	STANDARD DETAIL FOR SECONDARY WATER VALVE BOX DETAIL	DRAWING NO. 15.4A

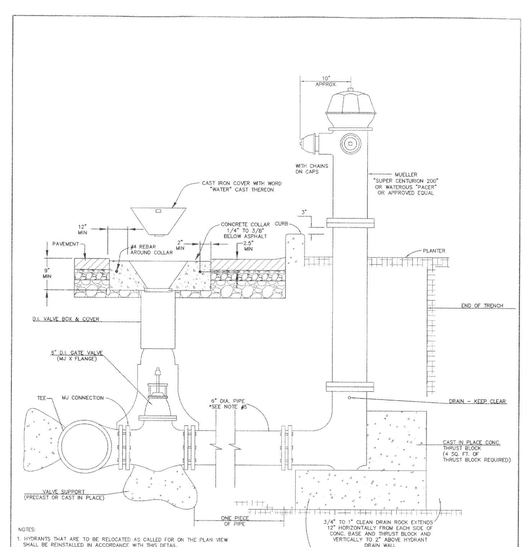




NOTES:
VAULT TO BE PLACED ONE FOOT FRONT OF WALK WITHIN AN EIGHT FOOT PARK STRIP OR WITHIN 10' FRONT PUE.

LEGEND			
NO.	*	ITEM	DESCRIPTION
A		27" FRAME AND COVER	APWA PLAN 502. CAST IRON LID WITH "IRRIGATION" AND RECESSED ORION HOLE. PART NUMBER 12.25PBLWIAMRG OR APPROVED EQUIVALENT.
B		CONCRETE BOX	APWA PLAN 505. 3' MINIMUM FLOOR TO ROOF.
C		CORE/KNOCKOUT THROUGH VAULT WALL	PIPES PASSING THROUGH CONCRETE VAULT SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY SHEATHING OR WRAPPING OR ANY OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM LIME AND ACID FROM CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR MOVEMENT INCLUDING EXPANSION AND CONTRACTION OF PIPING (IPC 305.1). REMAINING HOLE SHALL BE SEALED.

DRAWN: MVU REVISED: DATE: AUG 2019 SCALE: VARIES	AMERICAN FORK CITY PUBLIC WORKS 275 EAST 200 NORTH (801) 763-9030	STANDARD DETAIL FOR 1-1/2" OR 2" PI METER PLACEMENT	DRAWING NO. 15.5E



NOTES:
1. HYDRANTS THAT ARE TO BE RELOCATED AS CALLED FOR ON THE PLAN VIEW SHALL BE REINSTALLED IN ACCORDANCE WITH THIS DETAIL.
2. ALL GATE VALVES SHALL BE LOCATED AT THE HYDRANT AS SHOWN ON THIS DETAIL.
3. IF THE EXISTING FITTINGS ARE NOT COMPATIBLE WITH NEW MAIN CONSTRUCTION, SUITABLE ADAPTORS OR NEW FITTINGS SHALL BE USED UPON APPROVAL BY THE AMERICAN FORK CITY ENGINEER.
4. ALL ANCHORS AND BLOCKING TO BEAR AGAINST UNDISTURBED SOIL.
5. IF LENGTH EXCEEDS 1 LENGTH OF PIPE, INCREASE DIAMETER TO 8 INCH MINIMUM.

FIRE HYDRANT DETAIL
–NTS–

DRAWN: JRP REVISED: DATE: MAY 2002 SCALE: VARIES	Northern ENGINEERING AND LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR FIRE HYDRANT	DRAWING NO. 15.6

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

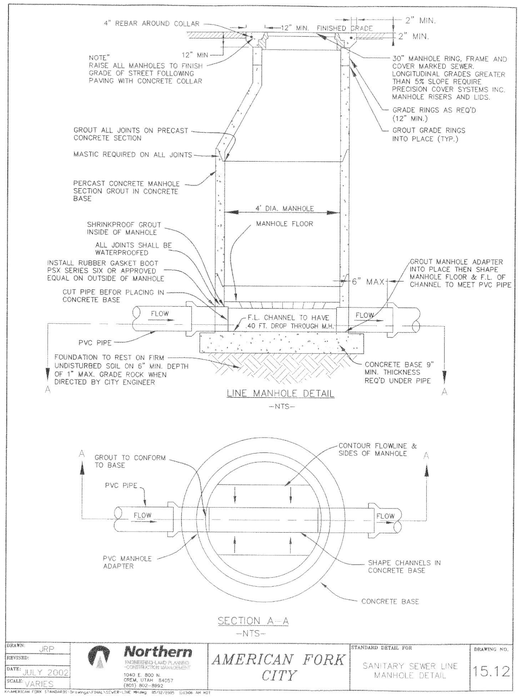
DETAILS

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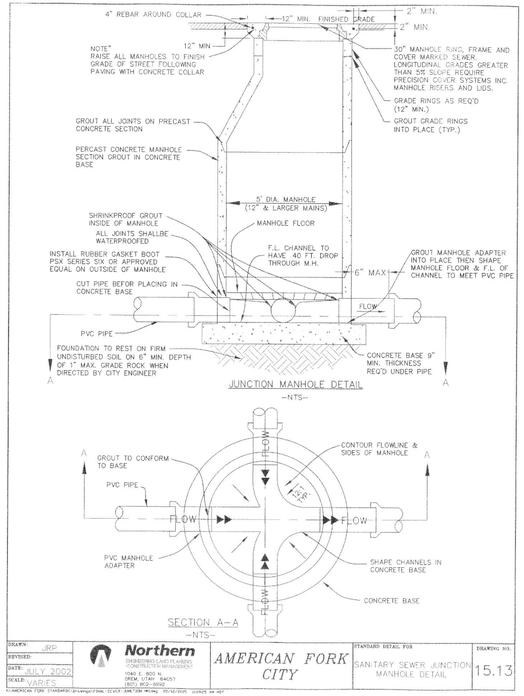
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Scale: 1"=XX'	Drawn: WE
Date: 06/30/2020	Job #: 19-0368
Sheet: D1.0	

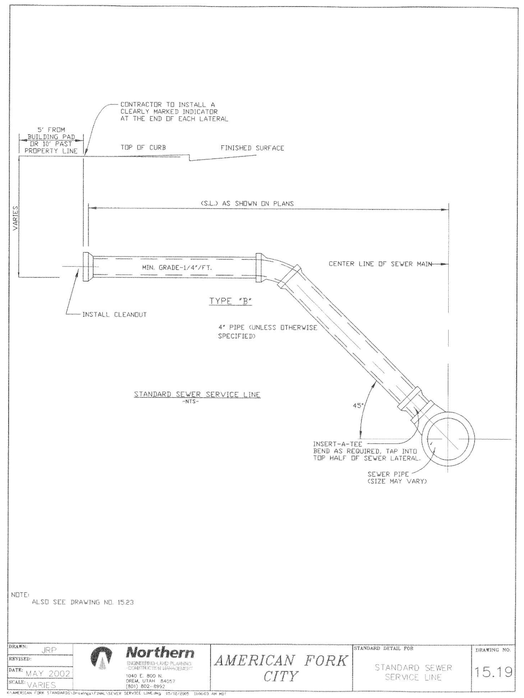
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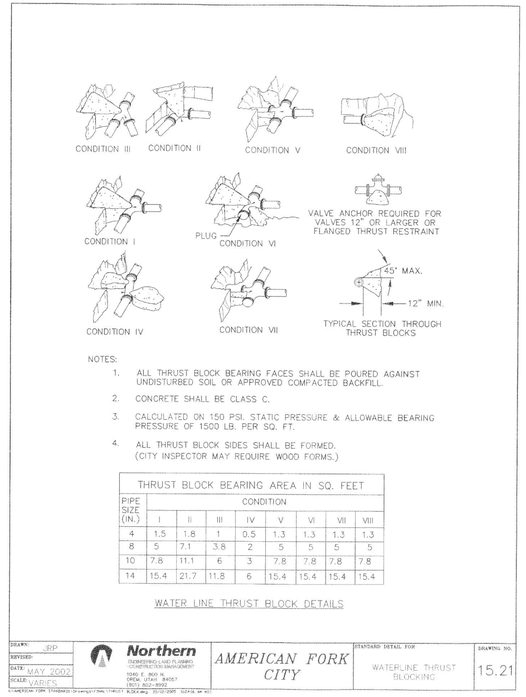
DRAWN: JRP	Northern ENGINEERING LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR: SANITARY SEWER LINE MANHOLE DETAIL	DRAWING NO. 15.12
REVISED:				
DATE: JULY 2002				
SCALE: VARIES				



DRAWN: JRP	Northern ENGINEERING LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR: SANITARY SEWER JUNCTION MANHOLE	DRAWING NO. 15.13
REVISED:				
DATE: JULY 2002				
SCALE: VARIES				



DRAWN: JRP	Northern ENGINEERING LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR: STANDARD SEWER SERVICE LINE	DRAWING NO. 15.19
REVISED:				
DATE: MAY 2002				
SCALE: VARIES				

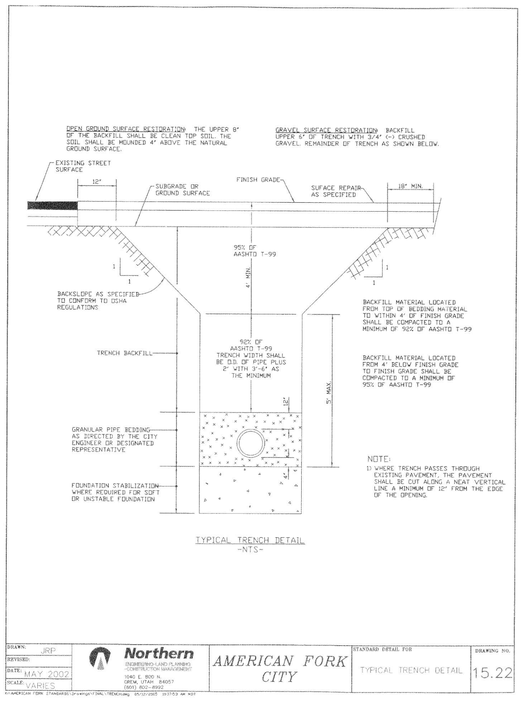


THRUST BLOCK BEARING AREA IN SQ. FEET

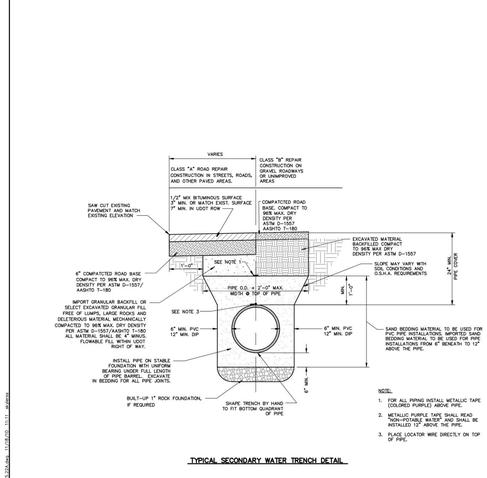
PIPE SIZE (IN.)	CONDITION							
	I	II	III	IV	V	VI	VII	VIII
4	1.5	1.8	1	0.5	1.3	1.3	1.3	1.3
8	5	7.1	3.8	2	5	5	5	5
10	7.8	11.1	6	3	7.8	7.8	7.8	7.8
14	15.4	21.7	11.8	6	15.4	15.4	15.4	15.4

WATER LINE THRUST BLOCK DETAILS

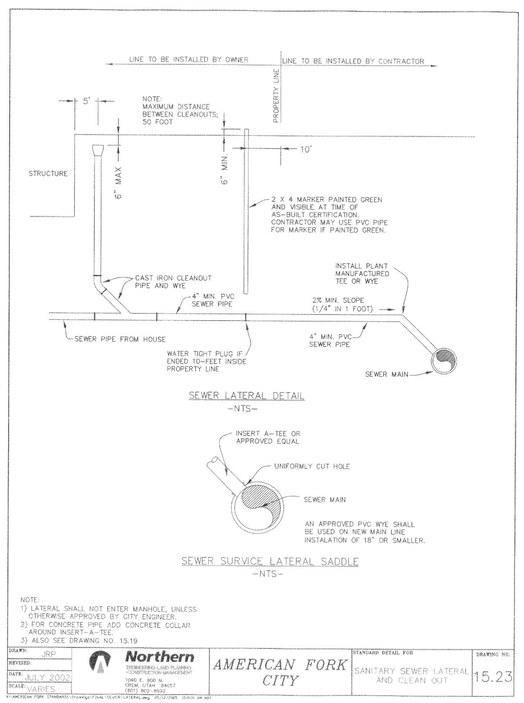
DRAWN: JRP	Northern ENGINEERING LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR: WATERLINE THRUST BLOCKING	DRAWING NO. 15.21
REVISED:				
DATE: MAY 2002				
SCALE: VARIES				



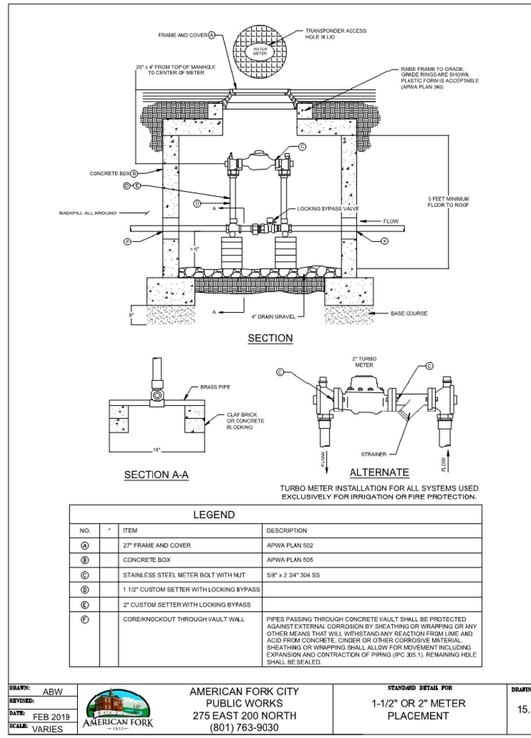
DRAWN: JRP	Northern ENGINEERING LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR: TYPICAL TRENCH DETAIL	DRAWING NO. 15.22
REVISED:				
DATE: MAY 2002				
SCALE: VARIES				



DRAWN:	HORROCKS ENGINEERS ONE WEST MAIN P.O. BOX 377 AMERICAN FORK (801) 763-5100	AMERICAN FORK CITY	STANDARD DETAIL FOR: TYPICAL SECONDARY WATER TRENCH DETAIL	DRAWING NO. 15.22A
REVISED: 11/2010				
DATE:				
SCALE:				



DRAWN: JRP	Northern ENGINEERING LAND PLANNING CONSTRUCTION MANAGEMENT 1040 E. 800 N. OREM, UTAH 84057 (801) 802-8992	AMERICAN FORK CITY	STANDARD DETAIL FOR: SANITARY SEWER LATERAL AND CLEAN OUT	DRAWING NO. 15.23
REVISED:				
DATE: JULY 2002				
SCALE: VARIES				



LEGEND

NO.	*	ITEM	DESCRIPTION
(A)		27" FRAME AND COVER	APWA PLAN 502
(B)		CONCRETE BOX	APWA PLAN 505
(C)		STAINLESS STEEL METER BOLT WITH NUT	5/8" x 2 3/4" 304 SS
(D)		1 1/2" CUSTOM SETTER WITH LOCKING BYPASS	
(E)		2" CUSTOM SETTER WITH LOCKING BYPASS	
(F)		CORE/KNOCKOUT THROUGH VAULT WALL	PIPES PASSING THROUGH CONCRETE VAULT SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY SHEATHING OR WRAPPING OR ANY OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM LIME AND ACID FROM CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR MOVEMENT INCLUDING EXPANSION AND CONTRACTION OF PIPING (IPC 305.1). REMAINING HOLE SHALL BE SEALED.

DRAWN: ABW	AMERICAN FORK CITY PUBLIC WORKS 275 EAST 200 NORTH (801) 763-9030		STANDARD DETAIL FOR: 1-1/2" OR 2" METER PLACEMENT	DRAWING NO. 15.5C
REVISED:				
DATE: FEB 2019				
SCALE: VARIES				

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SAVAGE APTS. PH.2
AMERICAN FORK CITY
DETAILS

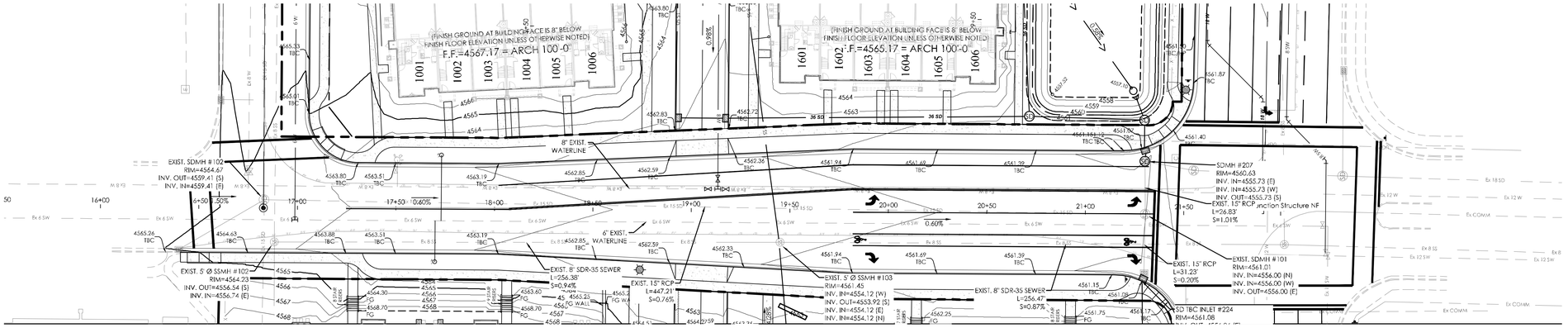
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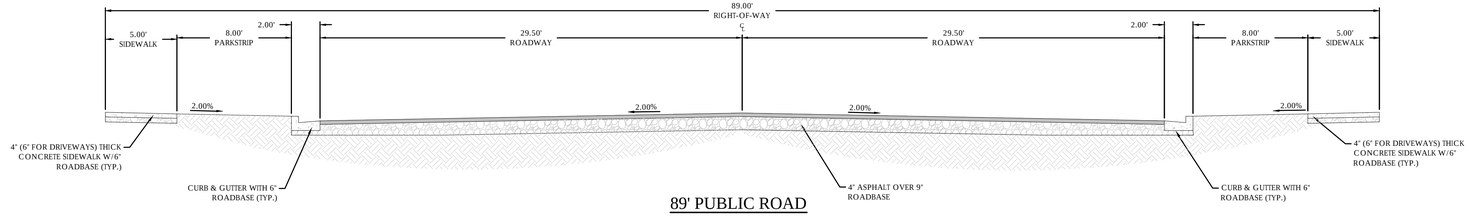
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Sheet: D1.1

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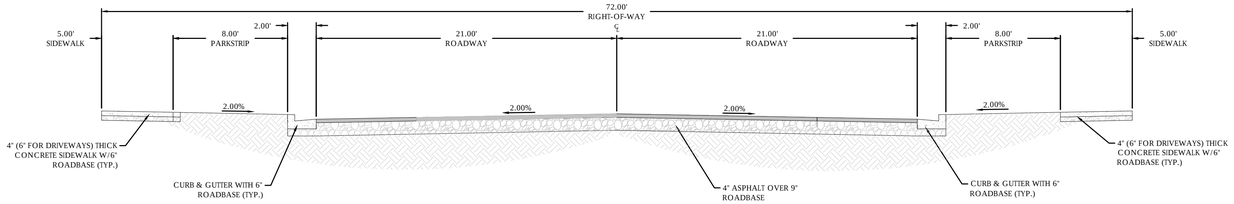


600 EAST PLAN



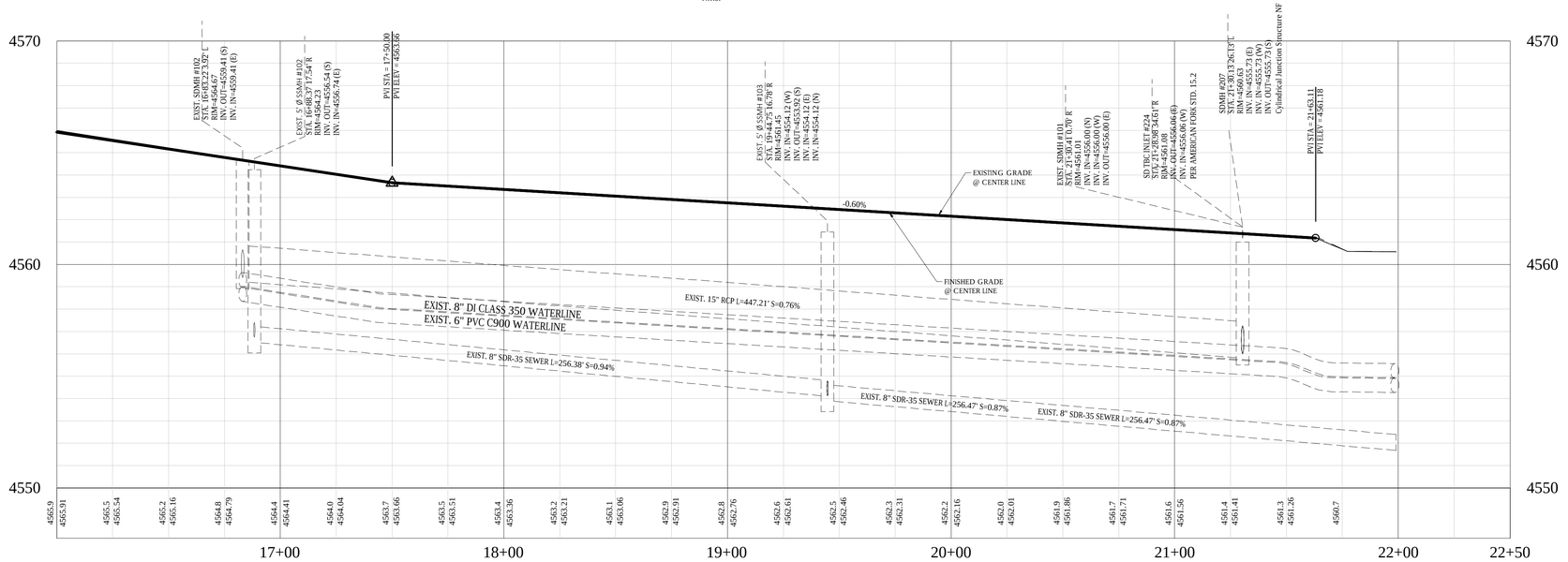
89' PUBLIC ROAD

N.T.S.



72' PUBLIC ROAD

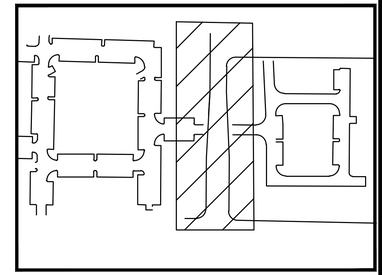
N.T.S.



600 EAST PROFILE

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. FENCE
- EXIST. CONTOUR MAJOR
- EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- o XXXX.XX SPOT ELEVATION



KEY MAP

NTS

N S

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Know what's below. Call 811 before you dig.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

600 EAST

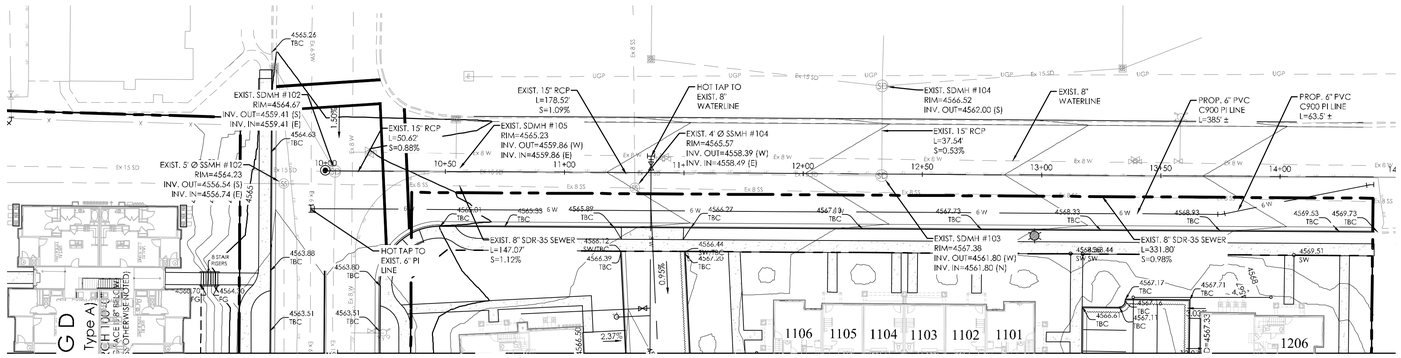
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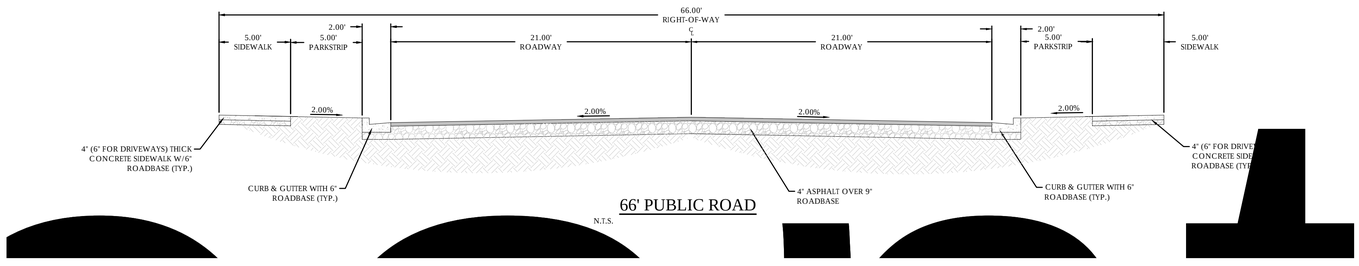
600 EAST

Scale: 1"=30' | Drawn: WE
Date: 06/30/2020 | Job #: 19-0368
Sheet: PP1.0

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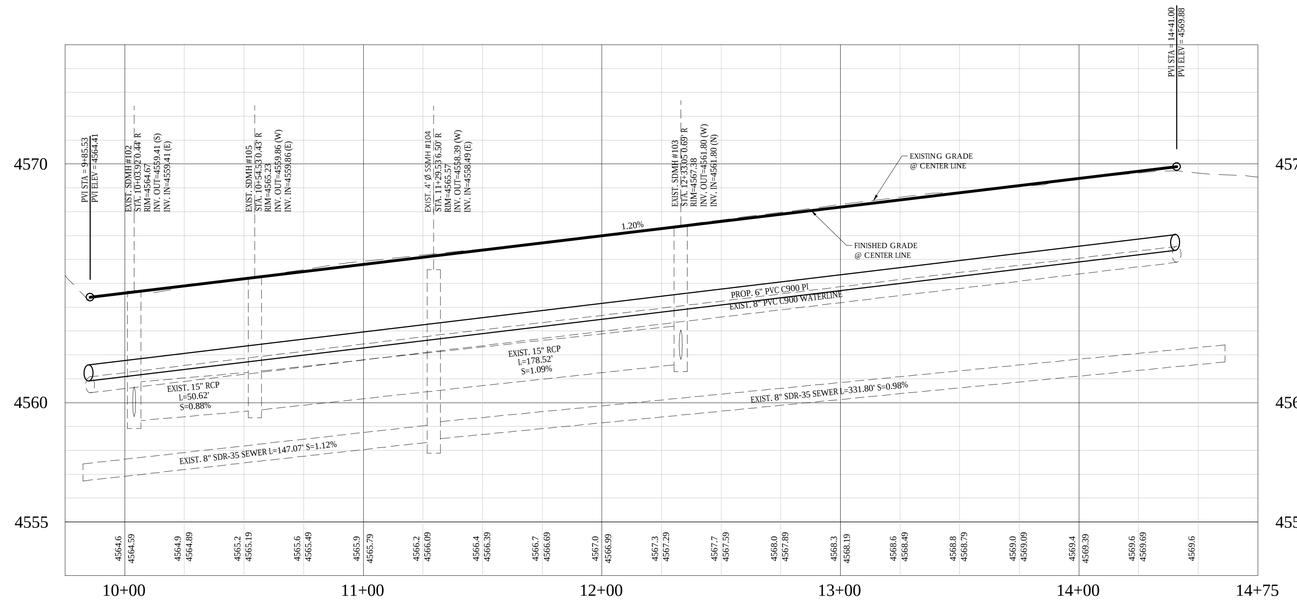


530 SOUTH PLAN



66' PUBLIC ROAD

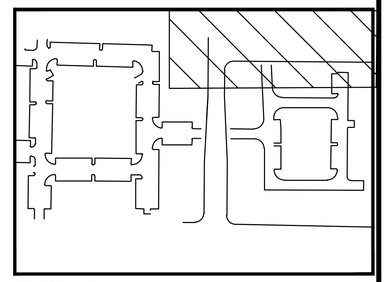
N.T.S.



530 SOUTH PROFILE

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15" STORM DRAIN
- 8" SANITARY SEWER
- 8" CULINARY WATER
- 8" SECONDARY WATER
- CONTOUR MAJOR
- CONTOUR MINOR
- EXIST. STORM DRAIN
- EXIST. SANITARY SEWER
- EXIST. CULINARY WATER
- EXIST. FENCE
- EXIST. CONTOUR MAJOR
- EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- SPOT ELEVATION



KEY MAP

NTS

FOR REVIEW ONLY

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(IN FEET)
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SAVAGE APTS. PH.2

AMERICAN FORK CITY

530 SOUTH

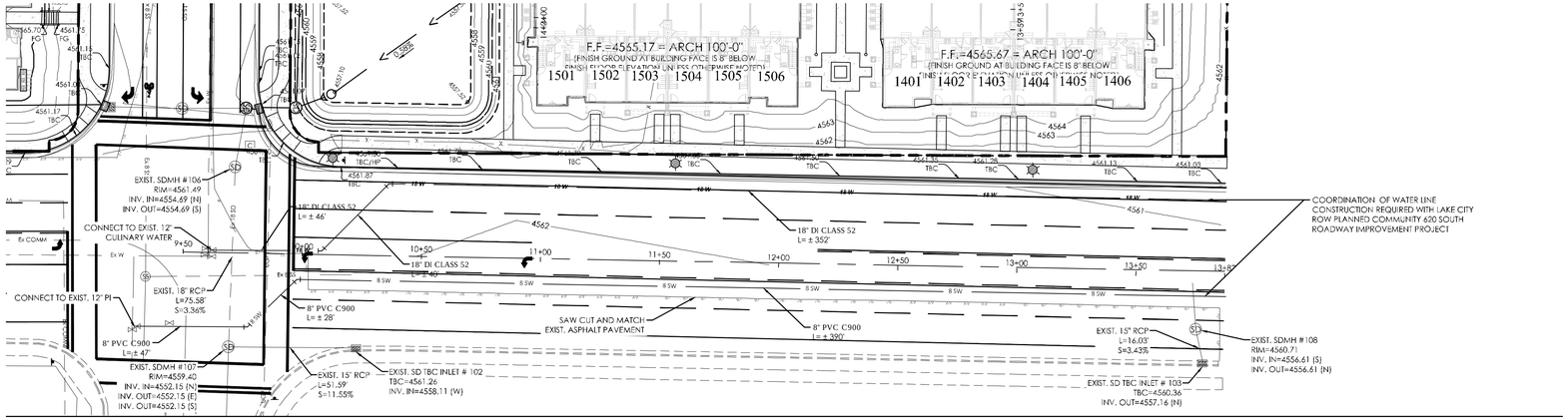
REVISION BLOCK

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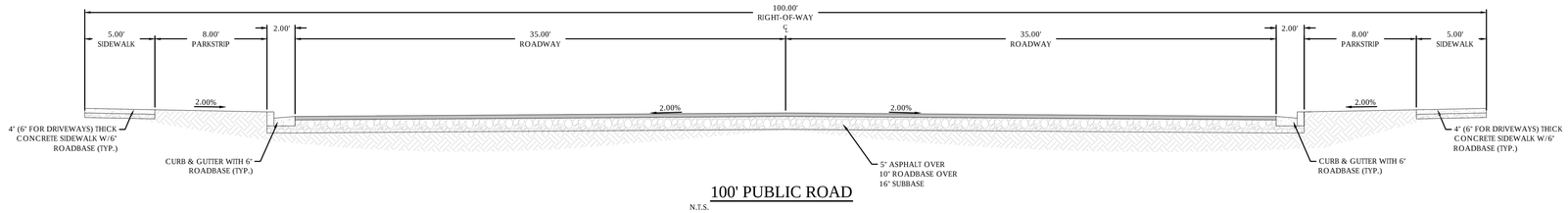
530 SOUTH

Scale: 1"=30' | Drawn: WE
Date: 06/30/2020 | Job #: 19-0368
Sheet: PP2.0

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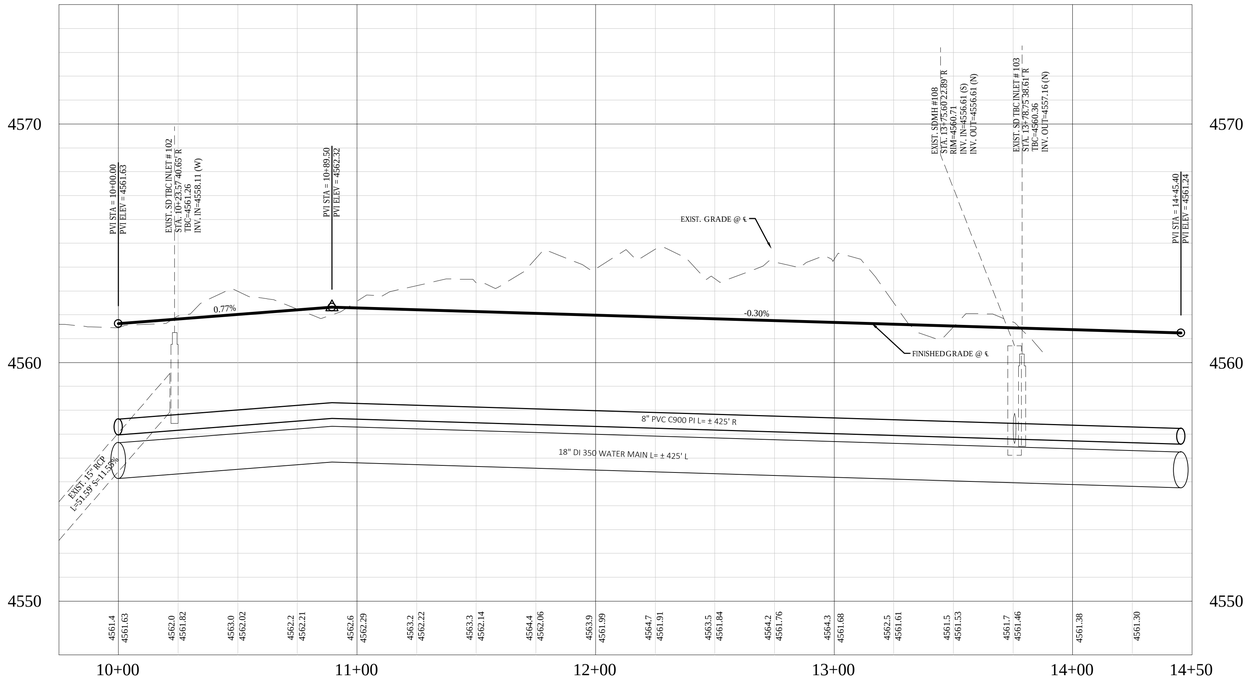


620 SOUTH PLAN



100' PUBLIC ROAD

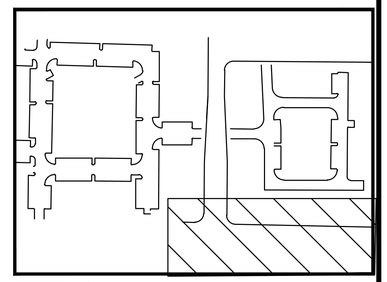
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620 SOUTH PROFILE

LEGEND

- BOUNDARY
- ROW
- CENTERLINE
- LOT LINE
- EASEMENT
- SHED CURB
- 15 SD — 15" STORM DRAIN
- 8 SS — 8" SANITARY SEWER
- 8 W — 8" CULINARY WATER
- 8 SW — 8" SECONDARY WATER
- XXXX — CONTOUR MAJOR
- XXXX — CONTOUR MINOR
- Ex SD — EXIST. STORM DRAIN
- Ex SS — EXIST. SANITARY SEWER
- Ex W — EXIST. CULINARY WATER
- X — X — X — EXIST. FENCE
- (XXXX) — EXIST. CONTOUR MAJOR
- (XXXX) — EXIST. CONTOUR MINOR
- SIGN
- STREET LIGHT
- SD MH, INLET, AND COMBO
- SEWER MANHOLE
- VALVE, TEE & BEND
- WATER BLOW-OFF
- FIRE HYDRANT
- STREET MONUMENT (TO BE SET)
- EXIST. STREET MONUMENT
- EXIST. SD INLET & MH
- EXIST. SEWER MH
- EXIST. VALVE, TEE, & BEND
- EXIST. FIRE HYDRANT
- o XXXX.XX — SPOT ELEVATION



KEY MAP

N.T.S

N

S

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

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SAVAGE APTS. PH.2

AMERICAN FORK CITY

620 SOUTH

REVISION BLOCK

#	DATE	DESCRIPTION
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620 SOUTH

Scale:	1"=30'	Drawn:	WE
Date:	06/30/2020	Job #:	19-0368
Sheet:	PP3.0		

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