



# 60% CONSTRUCTION PLANS FOR BEULAH BOULEVARD EXTENSION & UNIVERSITY AVENUE REALIGNMENT FLAGSTAFF, ARIZONA

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 21, TOWNSHIP 21 NORTH, RANGE 7 EAST, GILA AND SALT RIVER MERIDIAN, COCONINO COUNTY, CITY OF FLAGSTAFF, ARIZONA

## LANDSCAPE APPROVAL

BY SIGNING THESE PLANS, THE DESIGNER OF THE LANDSCAPING PLANS CONFIRMS THAT THESE CIVIL PLANS HAVE BEEN REVIEWED, IS AWARE OF THE SCOPE OF THE PROJECT, AND HAS IDENTIFIED AND ADDRESSED ANY POTENTIAL CONFLICTS BETWEEN THE CIVIL AND LANDSCAPING PLANS.

LANDSCAPE DESIGNER: \_\_\_\_\_ DATE: \_\_\_\_\_

## A.D.E.Q. SEWER APPROVAL:

FILE NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_

## A.D.E.Q. WATER APPROVAL:

FILE NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_

### PROJECT ENGINEER:

SHEPARD-WESNITZER, INC.  
CONTACT: STEPHEN IRWIN, P.E.  
110 WEST DALE AVE.  
FLAGSTAFF, AZ 86001  
(928) 773-0354

### GEOTECHNICAL REPORT:

SPEEDIE AND ASSOCIATES  
REPORT #150594SF  
4025 EAST HUNTINGTON DR.  
FLAGSTAFF, AZ 86004  
(928) 526-6681

### PROPERTY INFORMATION:

APN: 103-21-001  
ZONING: PUBLIC FACILITY (PF)  
1801 S. MILTON RD.  
FLAGSTAFF, AZ 86001  
APN 103-21-001

### DRAINAGE REPORT:

SHEPARD-WESNITZER, INC.  
REPORT NAME: 30% DRAINAGE REPORT FOR BEULAH BOULEVARD EXTENSION & UNIVERSITY AVENUE REALIGNMENT  
110 WEST DALE AVE.  
FLAGSTAFF, AZ 86001  
(928) 773-0354

APN: 103-21-002  
ZONING: RURAL RESIDENTIAL  
701 W. UNIVERSITY AVE.  
FLAGSTAFF, AZ 86001  
APN 103-21-002

## CITY CONCEPT APPROVAL

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY. ALL LIABILITY FOR ERRORS AND OMISSIONS IS THE RESPONSIBILITY OF THE DESIGN ENGINEER.

### CITY ENGINEER:

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

### CITY PUBLIC WORKS DIRECTOR

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

### CITY WATER SERVICES DIRECTOR

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

## AUTHORIZATION TO CONSTRUCT:

THE SIGNATURES ABOVE ARE REQUIRED BEFORE THE CONTRACTOR CAN COMMENCE. UNSIGNED, THESE PLANS HAVE NOT BEEN COMPLETED WITH RESPECT TO AGENCY REVIEW AND APPROVAL.

## UTILITY COMPANY APPROVAL

### ARIZONA PUBLIC SERVICE

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

### UNISOURCE

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

### ALTICE USA

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

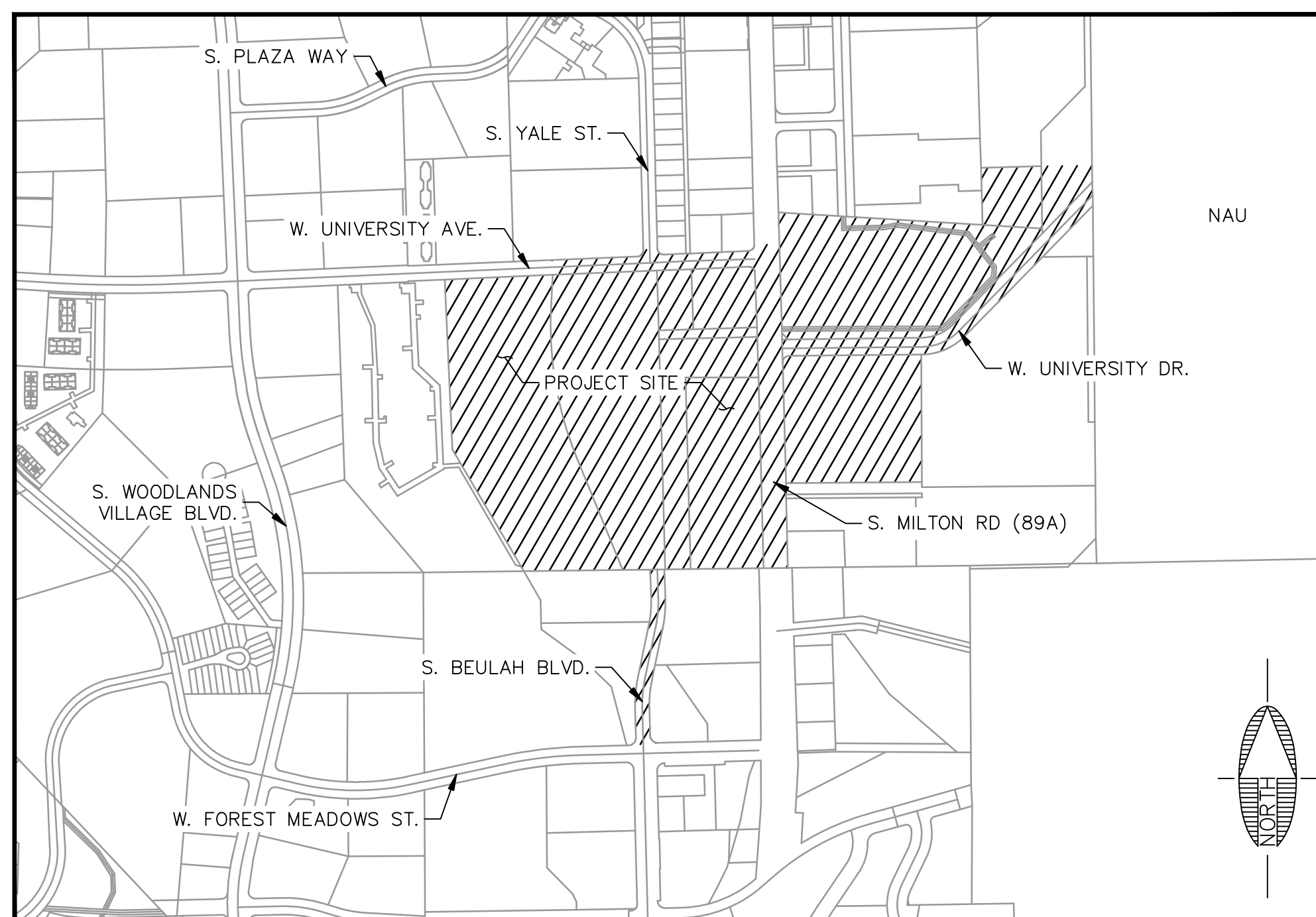
### CENTURYLINK

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

## UTILITY CONFLICTS

UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND WERE COMPILED FROM RECORD DRAWINGS, SURVEY, AND CONSTRUCTION PLANS FURNISHED BY OTHERS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS OF ALL UNDERGROUND LINES THAT MAY AFFECT WORK PRIOR TO CONSTRUCTION.

WE ARE AWAITING THE RESPONSE OF THE UTILITY COMPANIES IN REGARDS TO THE UTILITY CONFLICTS. SEE THE RESPECTIVE APPROVAL LETTERS FOR MORE INFORMATION REGARDING CONFLICTS AND CONSULT THE UTILITY CONFLICT TABLE TO THE RIGHT.



VICINITY MAP  
1"=500'

## LEGEND

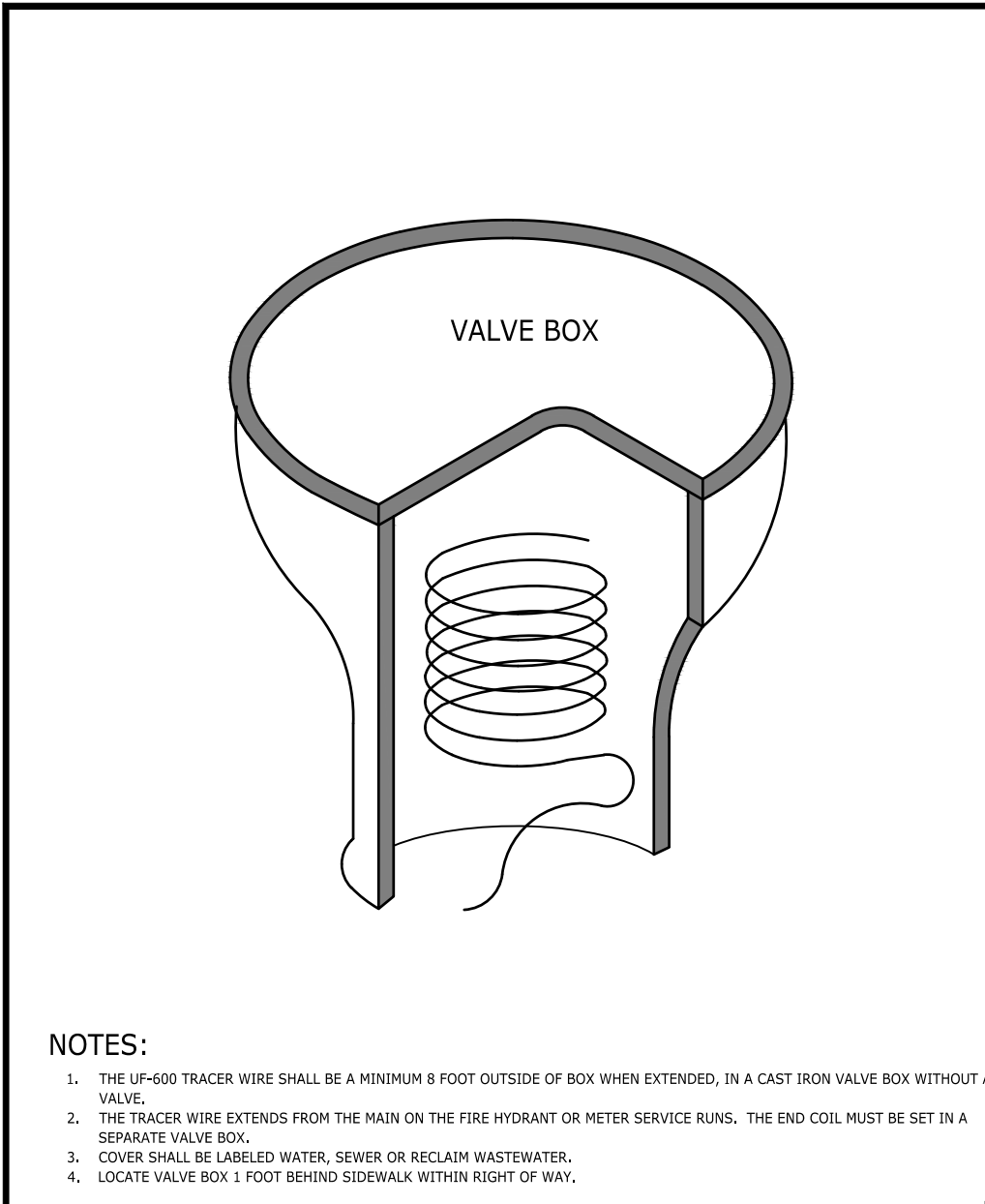
Legend table with symbols and descriptions for ROW, EASEMENT, GRAVITY SEWER LINE, PUBLIC WATER LINE, STORM DRAIN PIPE, LOT BOUNDARY, FIRE HYDRANT, AIR RELEASE VALVE, SEWER MANHOLE, STORM DRAIN MANHOLE, CATCH BASIN, GATE VALVE, LIGHT POLE, EX. INTERMEDIATE CONTOUR, EX. INDEX CONTOUR, EX. WATER LINE, EX. SEWER LINE, EX. GAS, EX. STORM DRAIN, EX. UNDERGROUND UTIL., EX. OVERHEAD UTIL., SECTION LINE, EX. ROAD STRIPING, EX. WATER VALVE, EX. SIGNAGE, EX. ELECTRIC BOX.

Sheet List Table with columns for Sheet Number and Sheet Title. Lists sheets from GN01 (COVER) to TS-06 (TRAFFIC SIGNAL PLAN: BEULAH BOULEVARD PEDESTRIAN SIGNAL).

60%  
PRELIMINARY  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

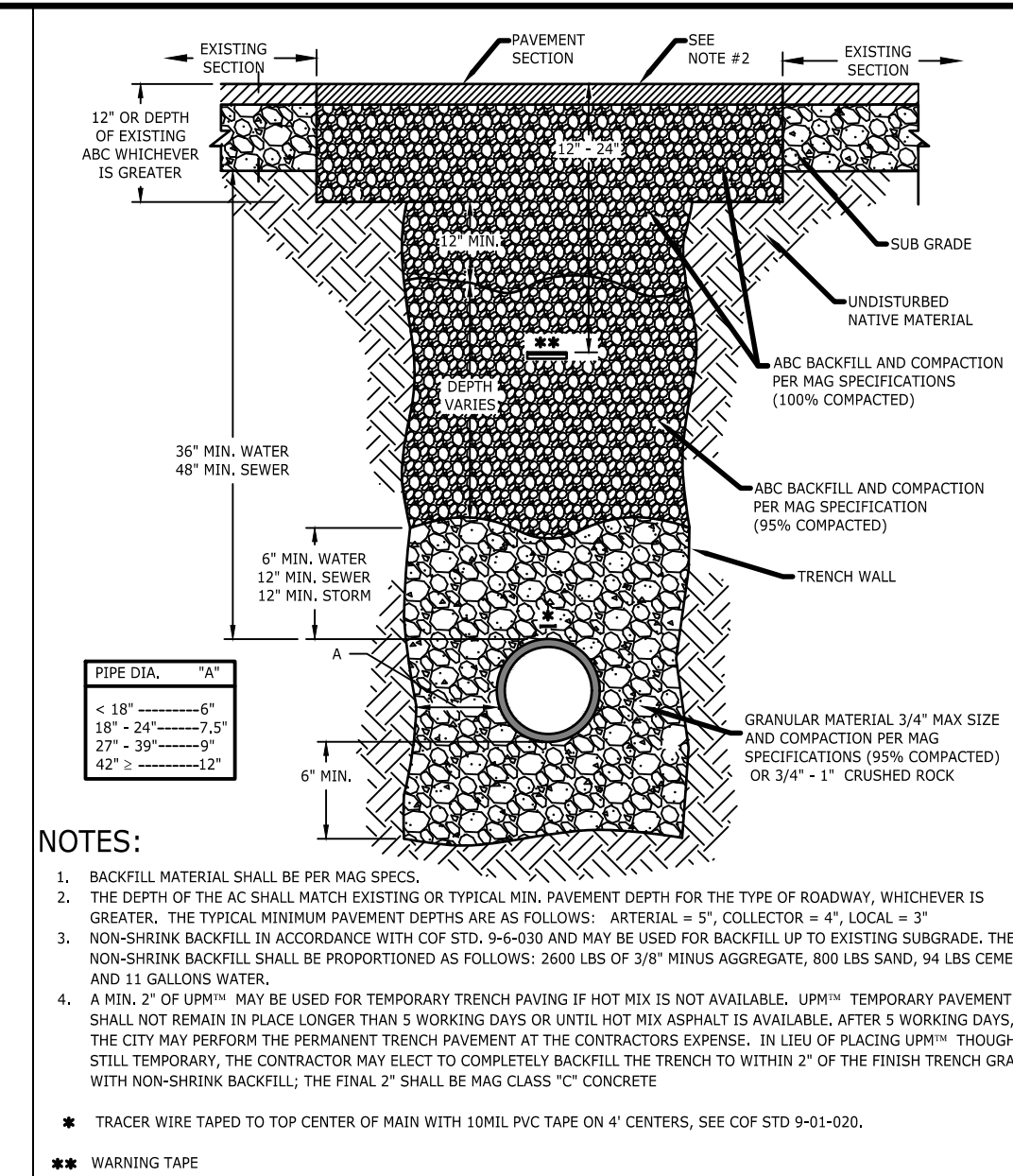
Vertical sidebar containing project title 'BEULAH & UNIVERSITY IMPROVEMENT PLANS', job number '18121', date 'JUN 21', scale 'AS SHOWN', and company logo 'Shephard & Wesnitzer, Inc.' with contact information.





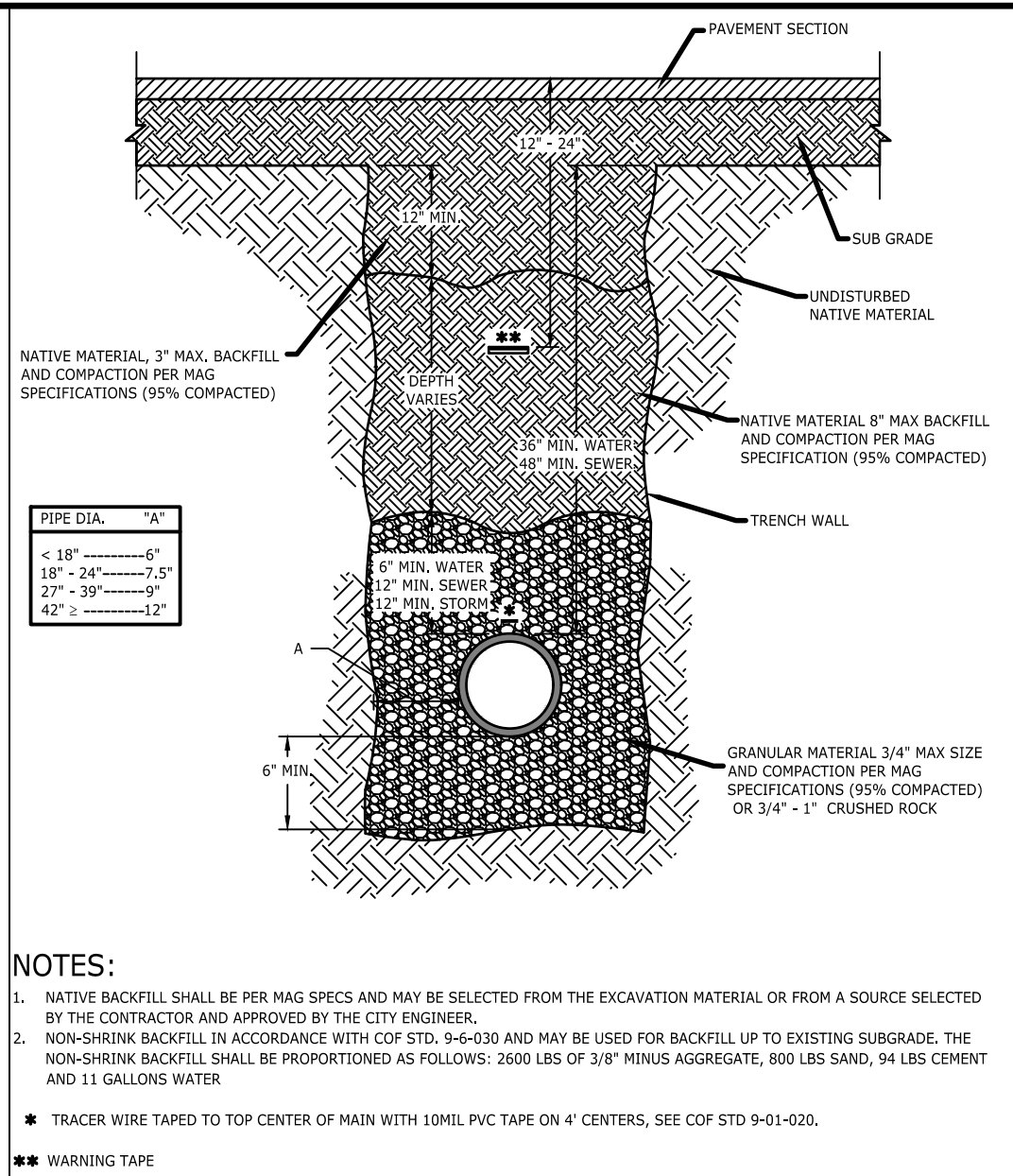
- NOTES:**
1. THE U-600 TRACER WIRE SHALL BE A MINIMUM 8 FOOT OUTSIDE OF BOX WHEN EXTENDED, IN A CAST IRON VALVE BOX WITHOUT A VALVE.
  2. THE TRACER WIRE EXTENDS FROM THE MAIN ON THE FIRE HYDRANT OR METER SERVICE RUNS. THE END COIL MUST BE SET IN A SEPARATE VALVE BOX.
  3. COVER SHALL BE LABELED WATER, SEWER OR RECLAIM WASTEWATER.
  4. LOCATE VALVE BOX 1 FOOT BEHIND SIDEWALK WITHIN RIGHT OF WAY.

City of Flagstaff  
**TRACER WIRE**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



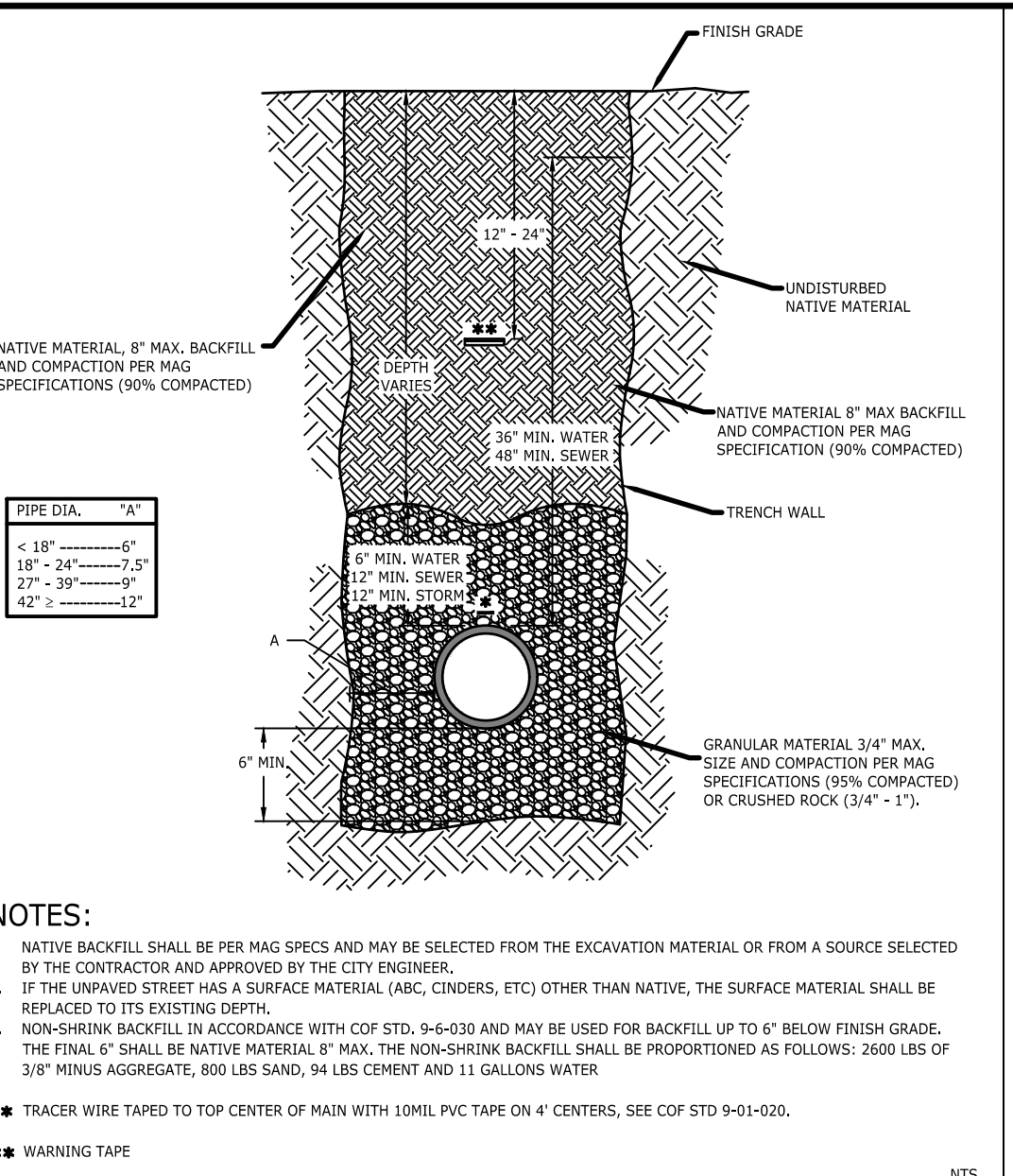
- NOTES:**
1. BACKFILL MATERIAL SHALL BE PER MAG SPECS.
  2. THE DEPTH OF THE AC SHALL MATCH EXISTING OR TYPICAL MIN. PAVEMENT DEPTH FOR THE TYPE OF ROADWAY, WHICHEVER IS GREATER. THE TYPICAL MINIMUM PAVEMENT DEPTHS ARE AS FOLLOWS: ARTERIAL = 5", COLLECTOR = 4", LOCAL = 3"
  3. NON-SHRINK BACKFILL IN ACCORDANCE WITH COF STD. 9-6-030 AND MAY BE USED FOR BACKFILL UP TO EXISTING SURGRADE. THE NON-SHRINK BACKFILL SHALL BE PROPORTIONED AS FOLLOWS: 2000 LBS OF 3/8" MINUS AGGREGATE, 800 LBS SAND, 94 LBS CEMENT AND 11 GALLONS WATER.
  4. A MIN. 2" OR UPH<sup>1</sup> MAY BE USED FOR TEMPORARY TRENCH PAVING IF HOT MIX IS NOT AVAILABLE. UPH<sup>1</sup> TEMPORARY PAVEMENT SHALL NOT REMAIN IN PLACE LONGER THAN 5 WORKING DAYS OR UNTIL HOT MIX ASPHALT IS AVAILABLE. AFTER 5 WORKING DAYS, THE CTR MAY PERFORM THE PERMANENT TRENCH PAVEMENT AT THE CONTRACTORS EXPENSE. IN LBS OF PLACING UPH<sup>1</sup> THROUGH STILL TEMPORARY, THE CONTRACTOR MAY ELECT TO COMPLETELY BACKFILL THE TRENCH TO WITHIN 2" OF THE FINISH TRENCH GRADE WITH NON-SHRINK BACKFILL. THE FINAL 2" SHALL BE MAG CLASS "C" CONCRETE.

City of Flagstaff  
**'TRENCHING & BACKFILL' EXISTING PAVED STREET**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



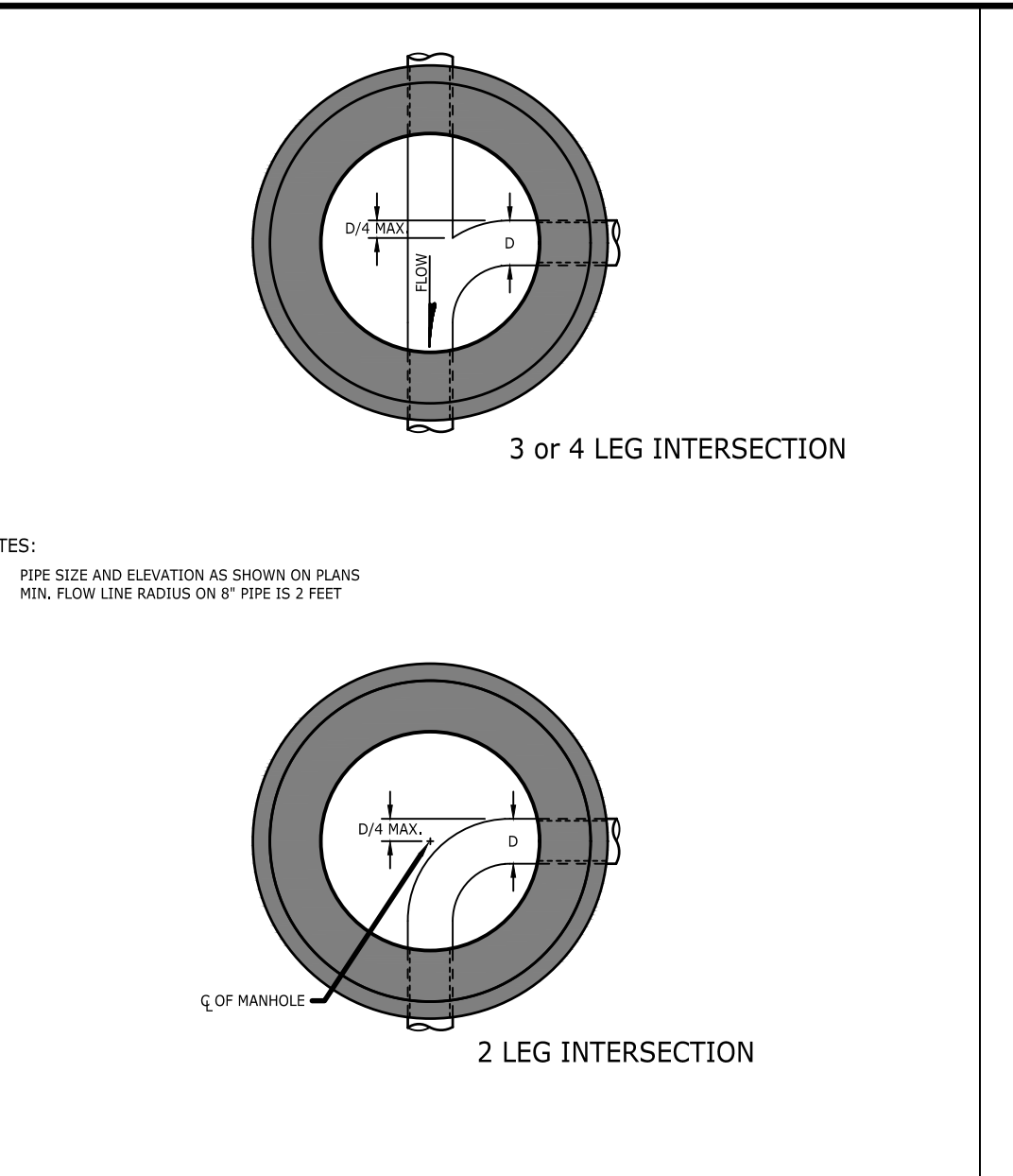
- NOTES:**
1. NATIVE BACKFILL SHALL BE PER MAG SPECS AND MAY BE SELECTED FROM THE EXCAVATION MATERIAL OR FROM A SOURCE SELECTED BY THE CONTRACTOR AND APPROVED BY THE CITY ENGINEER.
  2. CONCRETE RING FOR VALVES AND MANHOLES SHALL HAVE FOUR (4) STRESS JOINTS AT 90° ANGLES.
  3. DEPTH OF CONCRETE SHALL BE A MIN. 4" OR SAME AS AC AND ABC SECTION, NOT TO EXCEED 8".
  4. VALVES AND MANHOLES LOCATED UNDER CONCRETE PAVING SHALL HAVE A COLD JOINT OR EXPANSION JOINT CONCRETE COLLAR.

City of Flagstaff  
**TRENCHING AND BACKFILL NEW PAVED STREET**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



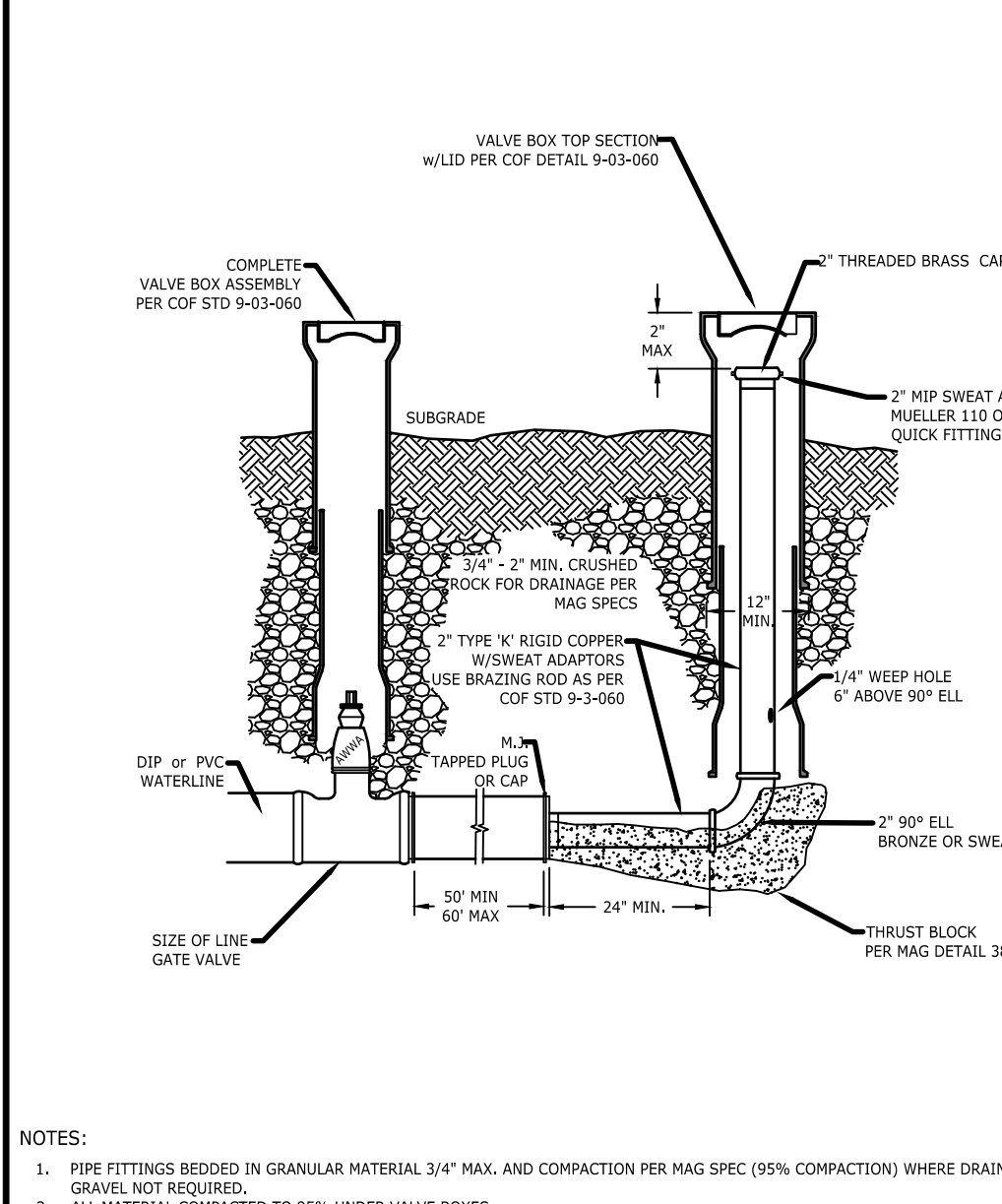
- NOTES:**
1. NATIVE BACKFILL SHALL BE PER MAG SPECS AND MAY BE SELECTED FROM THE EXCAVATION MATERIAL OR FROM A SOURCE SELECTED BY THE CONTRACTOR AND APPROVED BY THE CITY ENGINEER.
  2. IF THE UNPAVED STREET HAS A SURFACE MATERIAL (ABC, CINDERS, ETC) OTHER THAN NATIVE, THE SURFACE MATERIAL SHALL BE REPLACED TO ITS EXISTING DEPTH.
  3. NON-SHRINK BACKFILL IN ACCORDANCE WITH COF STD. 9-6-030 AND MAY BE USED FOR BACKFILL UP TO 6" BELOW FINISH GRADE. THE FINAL 6" SHALL BE NATIVE MATERIAL 8" MAX. THE NON-SHRINK BACKFILL SHALL BE PROPORTIONED AS FOLLOWS: 2000 LBS OF 3/8" MINUS AGGREGATE, 800 LBS SAND, 94 LBS CEMENT AND 11 GALLONS WATER.

City of Flagstaff  
**TRENCHING AND BACKFILL UNPAVED EASEMENT OR STREET**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



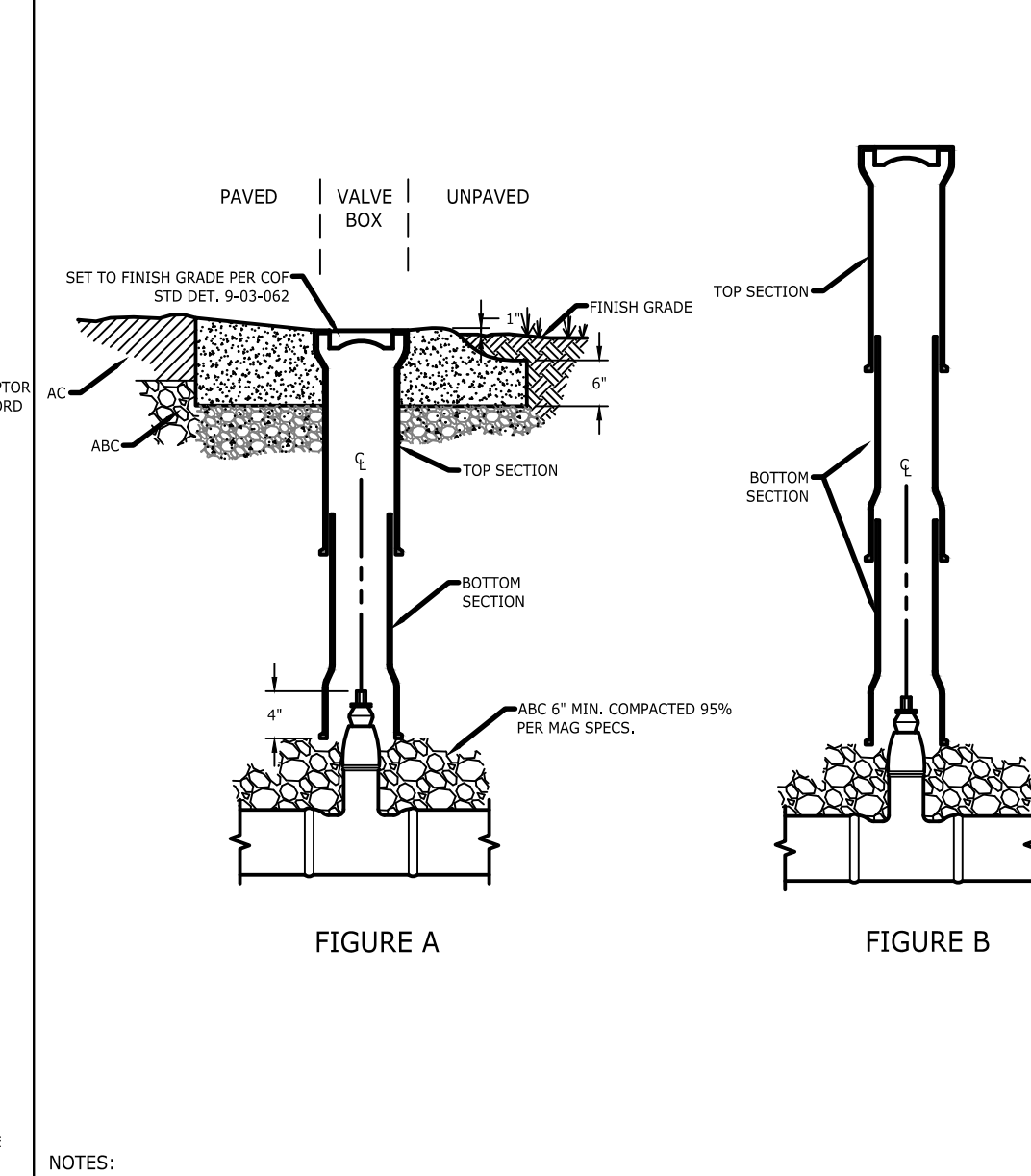
- NOTES:**
1. PIPE SIZE AND ELEVATION AS SHOWN ON PLANS
  2. MIN. FLOW LINE RADIUS ON 8" PIPE IS 2 FEET

City of Flagstaff  
**MANHOLE BASE GEOMETRY**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



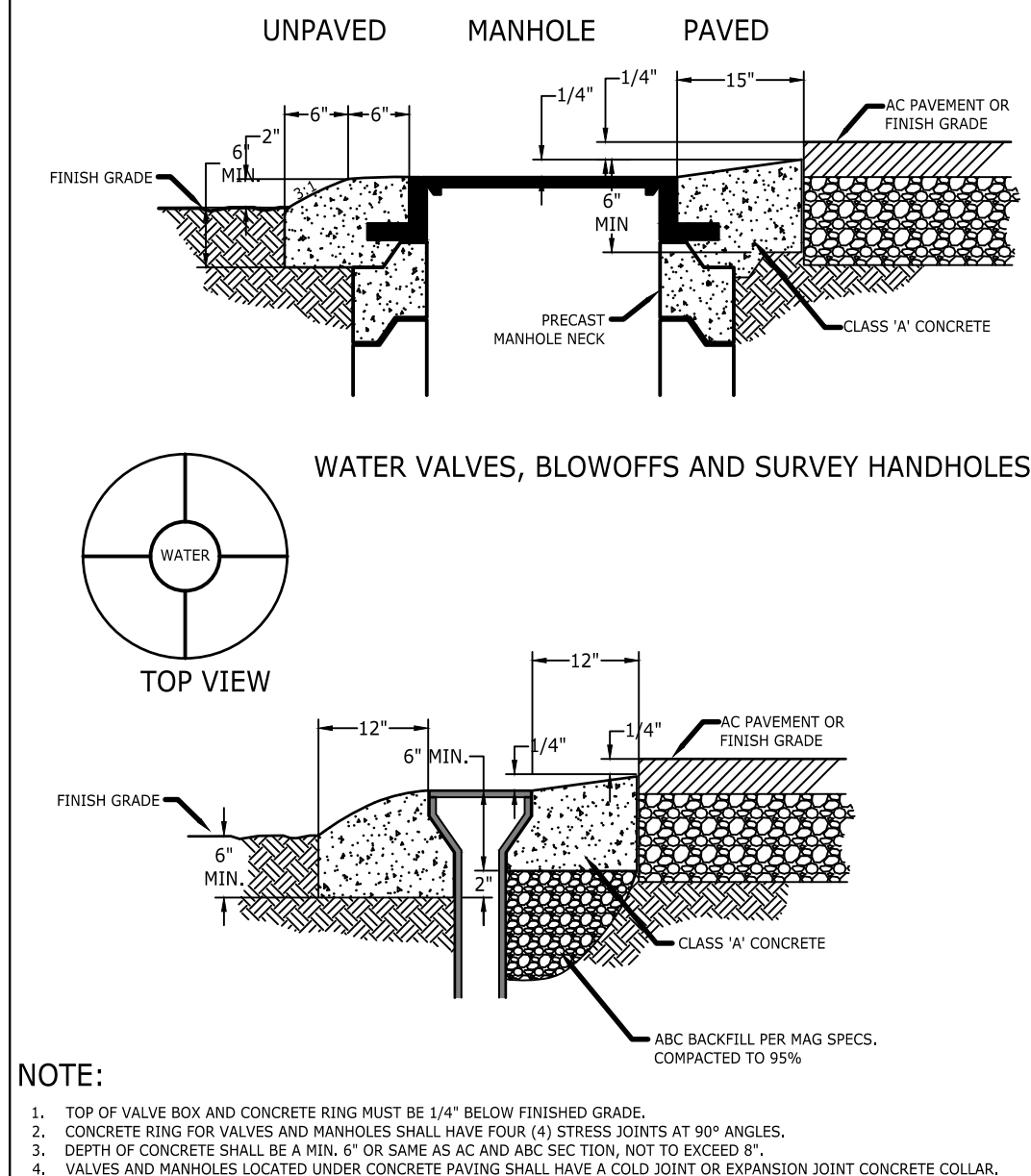
- NOTES:**
1. PIPE FITTINGS BEDDED IN GRANULAR MATERIAL 3/4" MAX. AND COMPACTION PER MAG SPEC (95% COMPACTION) WHERE DRAINAGE GRAVEL NOT REQUIRED.
  2. ALL MATERIAL BACKFILL TO 95% UNDER VALVE BOXES.

City of Flagstaff  
**END-OF-LINE TEMPORARY BLOW-OFF**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



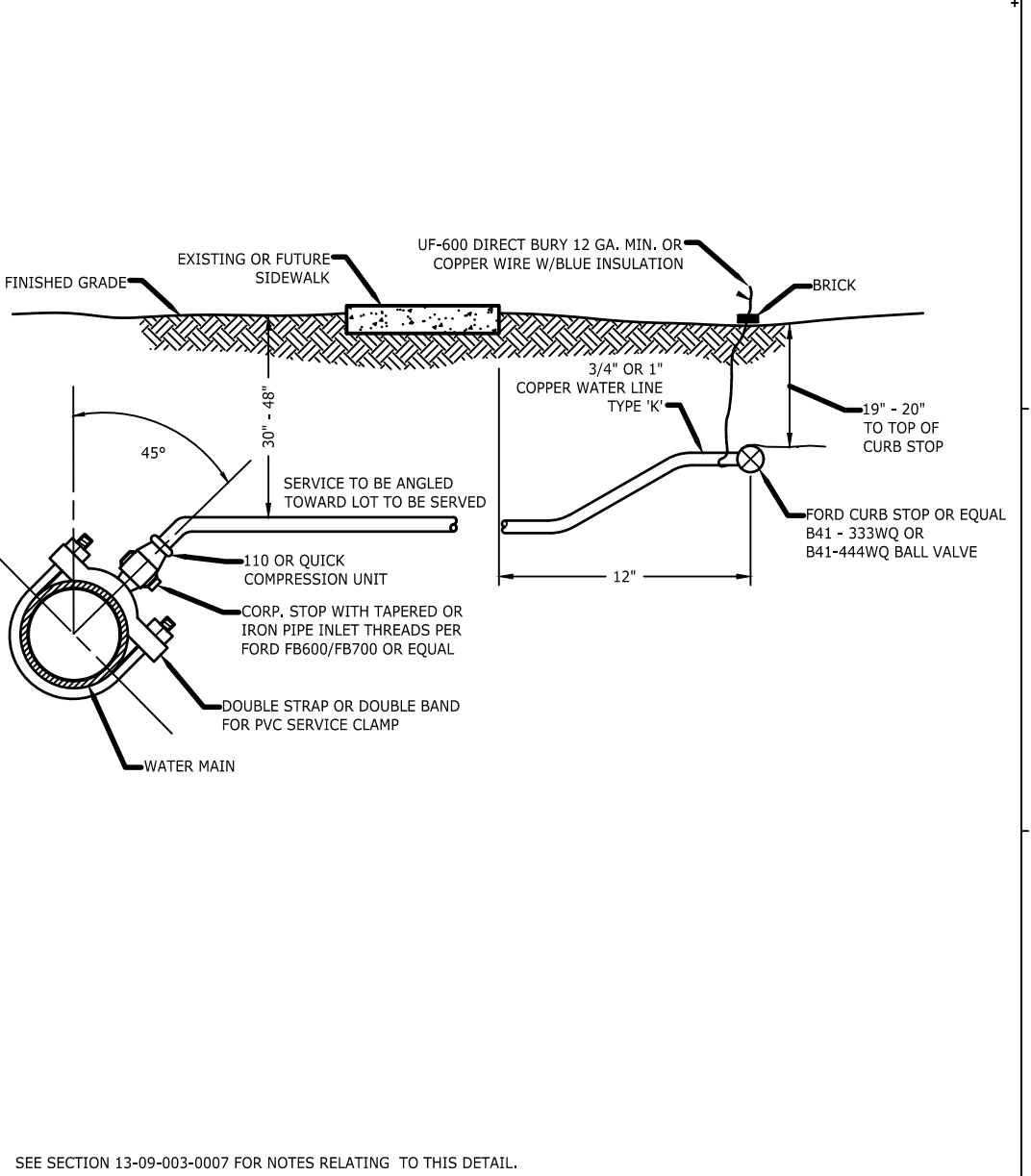
- NOTES:**
1. SEE COF STD. DETAIL 9-03-062 FOR NOTES RELATING TO THIS DETAIL.

City of Flagstaff  
**VALVE BOX ADJUSTMENT**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



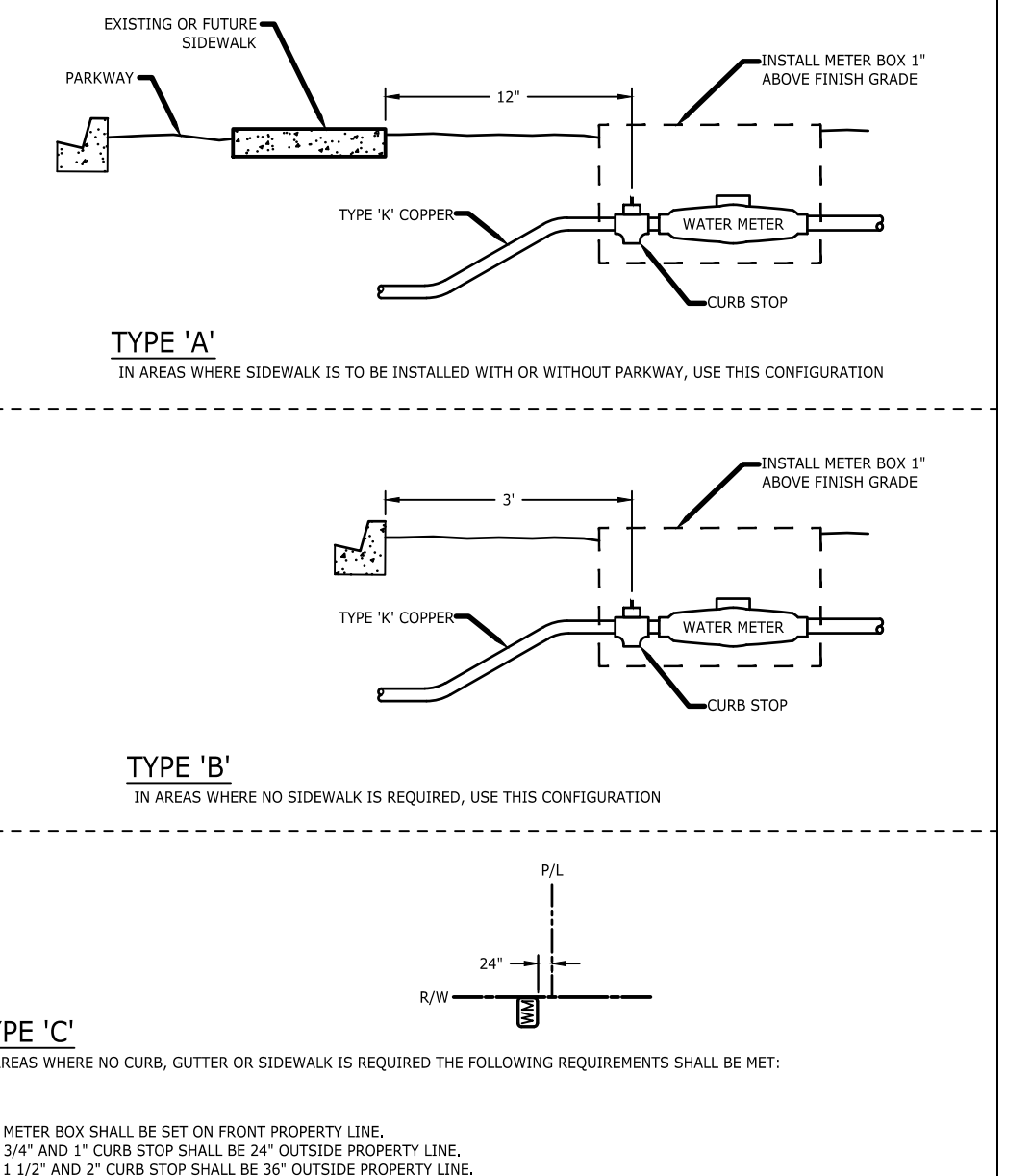
- NOTE:**
1. TOP OF VALVE BOX AND CONCRETE RING MUST BE 1/4" BELOW FINISHED GRADE.
  2. CONCRETE RING FOR VALVES AND MANHOLES SHALL HAVE FOUR (4) STRESS JOINTS AT 90° ANGLES.
  3. DEPTH OF CONCRETE SHALL BE A MIN. 4" OR SAME AS AC AND ABC SECTION, NOT TO EXCEED 8".
  4. VALVES AND MANHOLES LOCATED UNDER CONCRETE PAVING SHALL HAVE A COLD JOINT OR EXPANSION JOINT CONCRETE COLLAR.

City of Flagstaff  
**RING, FRAME or COVER INSTALLATION**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



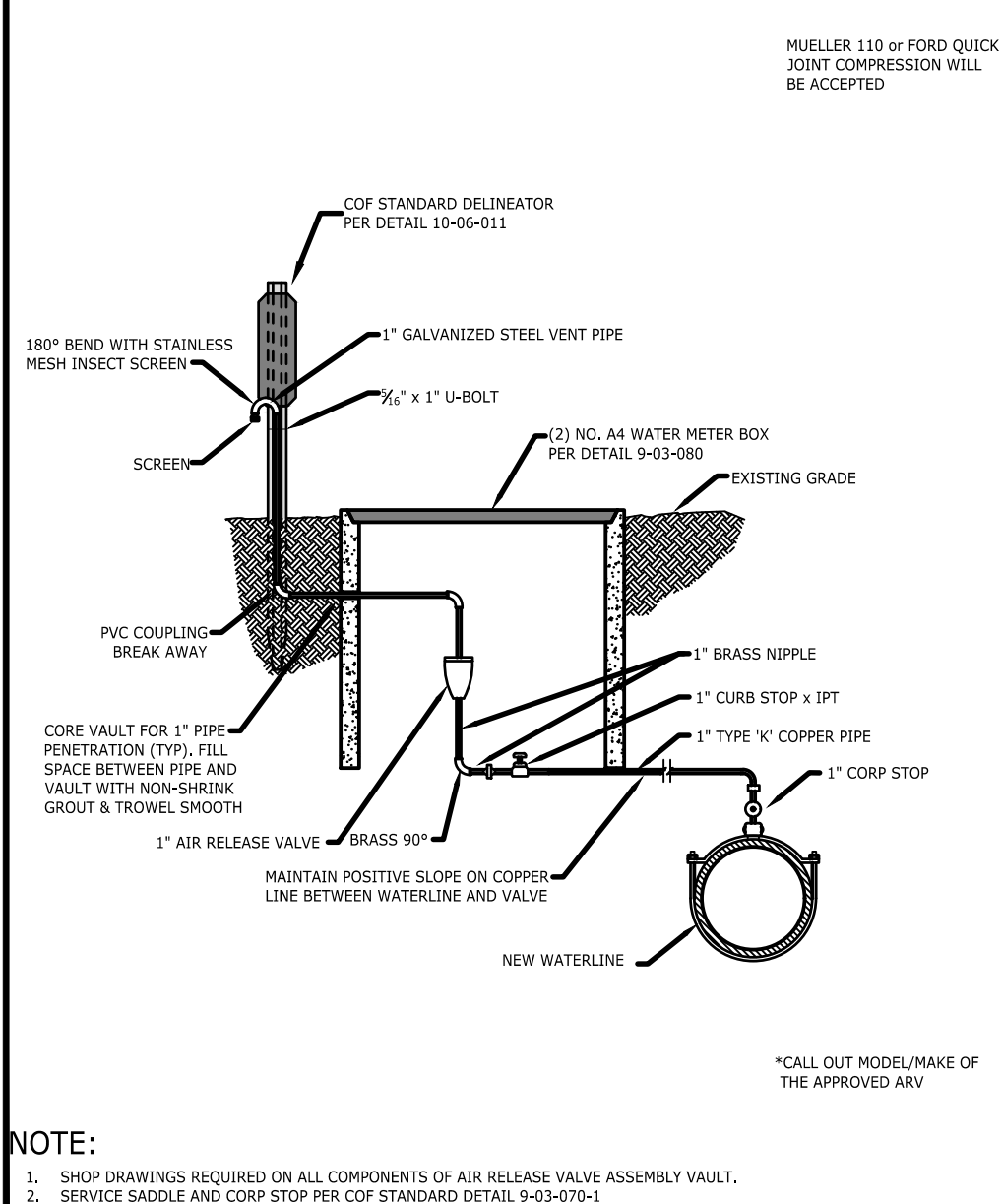
- NOTE:**
1. SEE SECTION 13-09-030-0007 FOR NOTES RELATING TO THIS DETAIL.

City of Flagstaff  
**WATER SERVICE CONNECTION 3/4" AND 1"**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 2



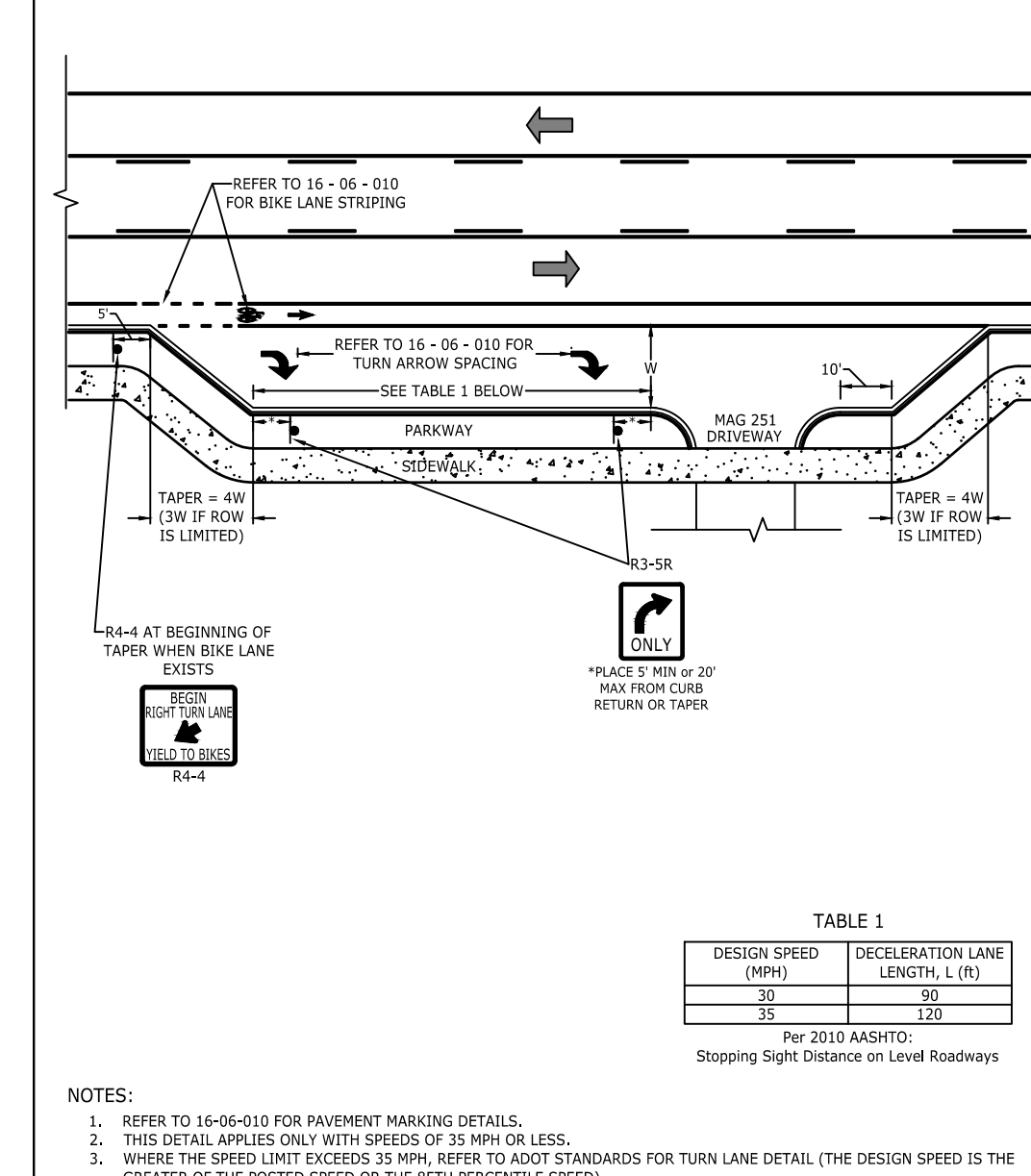
- NOTE:**
1. METER BOX SHALL BE SET ON FRONT PROPERTY LINE.
  2. 3/4" AND 1" CURB STOP SHALL BE 24" OUTSIDE PROPERTY LINE.
  3. 1 1/2" AND 2" CURB STOP SHALL BE 30" OUTSIDE PROPERTY LINE.
  4. CURB STOP SHALL BE 2" FROM INSIDE OF BOX TO ALLOW FOR EASY ACCESS TO BOTH COUPLINGS

City of Flagstaff  
**WATER SERVICE CONNECTION 1 1/2" AND 2"**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 2



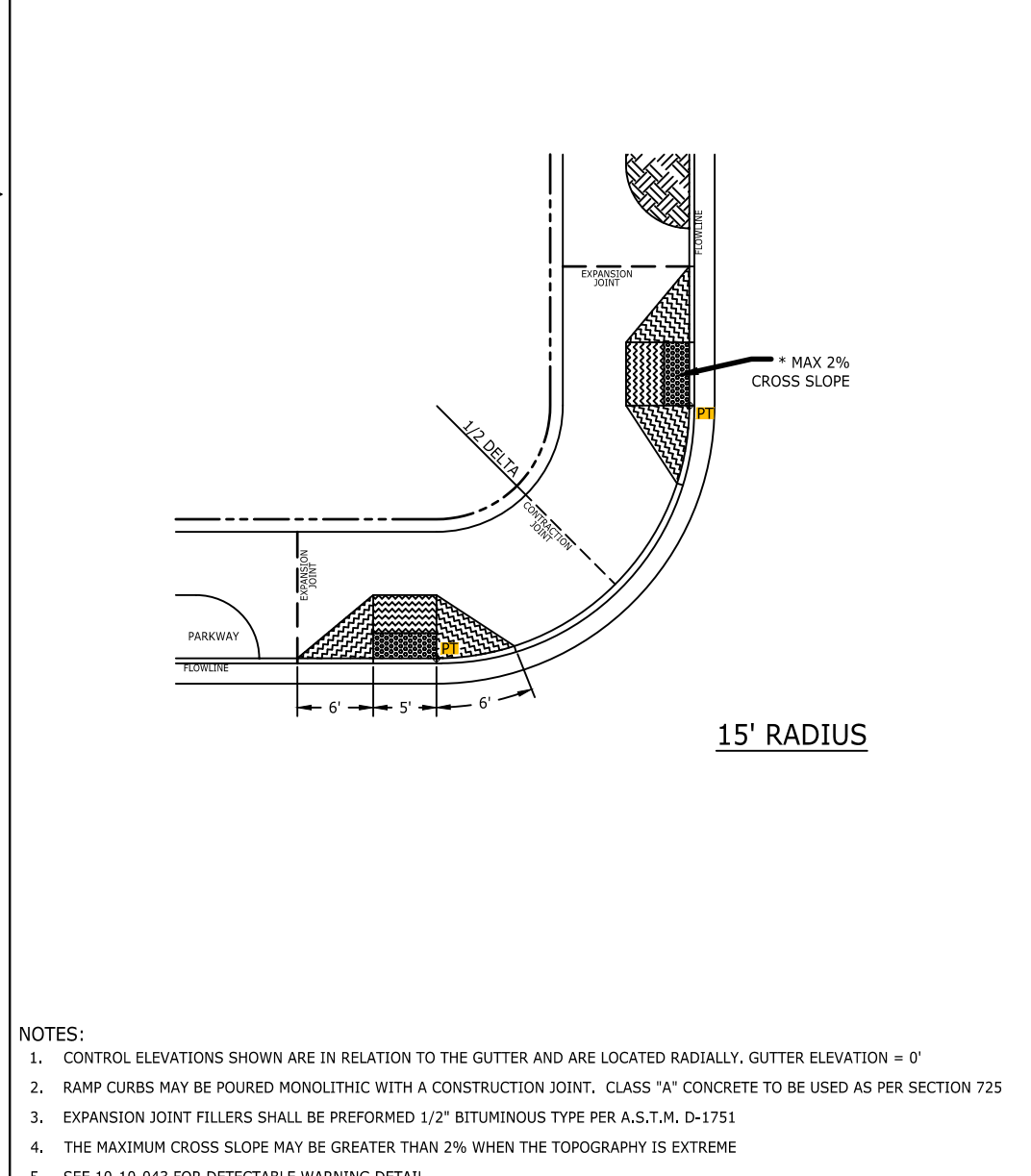
- NOTE:**
1. SHOP DRAWINGS REQUIRED ON ALL COMPONENTS OF AIR RELEASE VALVE ASSEMBLY VAULT.
  2. SERVICE SADDLE AND CORP STOP PER COF STANDARD DETAIL 9-03-070-1

City of Flagstaff  
**AIR RELEASE VALVE 1"**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



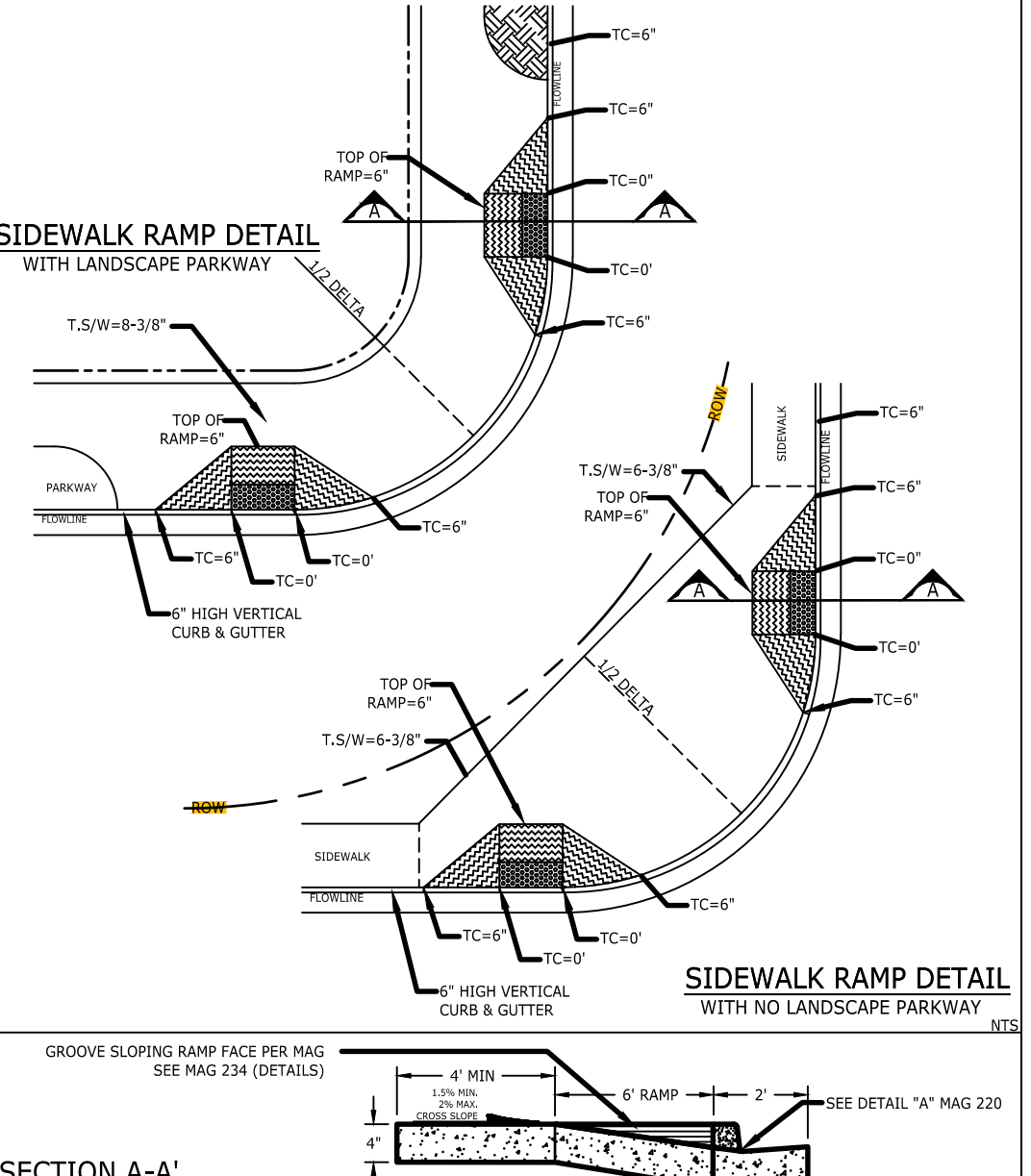
- NOTES:**
1. REFER TO 10-10-010 FOR PAVEMENT MARKING DETAILS.
  2. THIS DETAIL APPLIES ONLY WITH SPEEDS OF 35 MPH OR LESS.
  3. WHERE THE SPEED LIMIT EXCEEDS 35 MPH, REFER TO ADOT STANDARDS FOR TURN LANE DETAIL (THE DESIGN SPEED IS THE GREATER OF THE POSTED SPEED OR THE 85TH PERCENTILE SPEED).

City of Flagstaff  
**RIGHT TURN LANE FOR URBAN DRIVEWAY**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 1



- NOTES:**
1. CONTROL ELEVATIONS SHOWN ARE IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION = 0'
  2. RAMP CURBS MAY BE POLURED MONOLITHIC WITH A CONSTRUCTION JOINT. CLASS "A" CONCRETE TO BE USED AS PER SECTION 725
  3. EXPANSION JOINT FILLERS SHALL BE PERFORMED 1/2" RETIREDNESS TYPE PER A.S.T.M. A6-17(1)
  4. THE MAXIMUM CROSS SLOPE MAY BE GREATER THAN 2% WHEN THE TOPOGRAPHY IS EXTREME
  5. SEE 10-10-043 FOR DETECTABLE WARNING DETAIL

City of Flagstaff  
**SIDEWALK RAMP DETAIL 15' RADIUS CURB RETURN**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 2



City of Flagstaff  
**SIDEWALK RAMP DETAIL 15' RADIUS CURB RETURN**  
 ENGINEERING DETAIL  
 DATE: 12/30/2017  
 REVISION DATE: 12/30/2017  
 REVISION: 2

FLAGSTAFF ARIZONA  
 BEULAH & UNIVERSITY IMPROVEMENT PLANS  
 C.O.F. DETAILS

JOB NO.: 18121  
 DATE: JUN 21  
 SCALE: N/A  
 DRAWN: KMF/CNP  
 CHECKED: SCI

110 W. Dole Avenue  
 Flagstaff, AZ 86001  
 928.773.0354  
 928.774.8934 fax  
 www.swi.coz.com

**SWI**  
 Shephard Wesnitzer, Inc.

REVISIONS

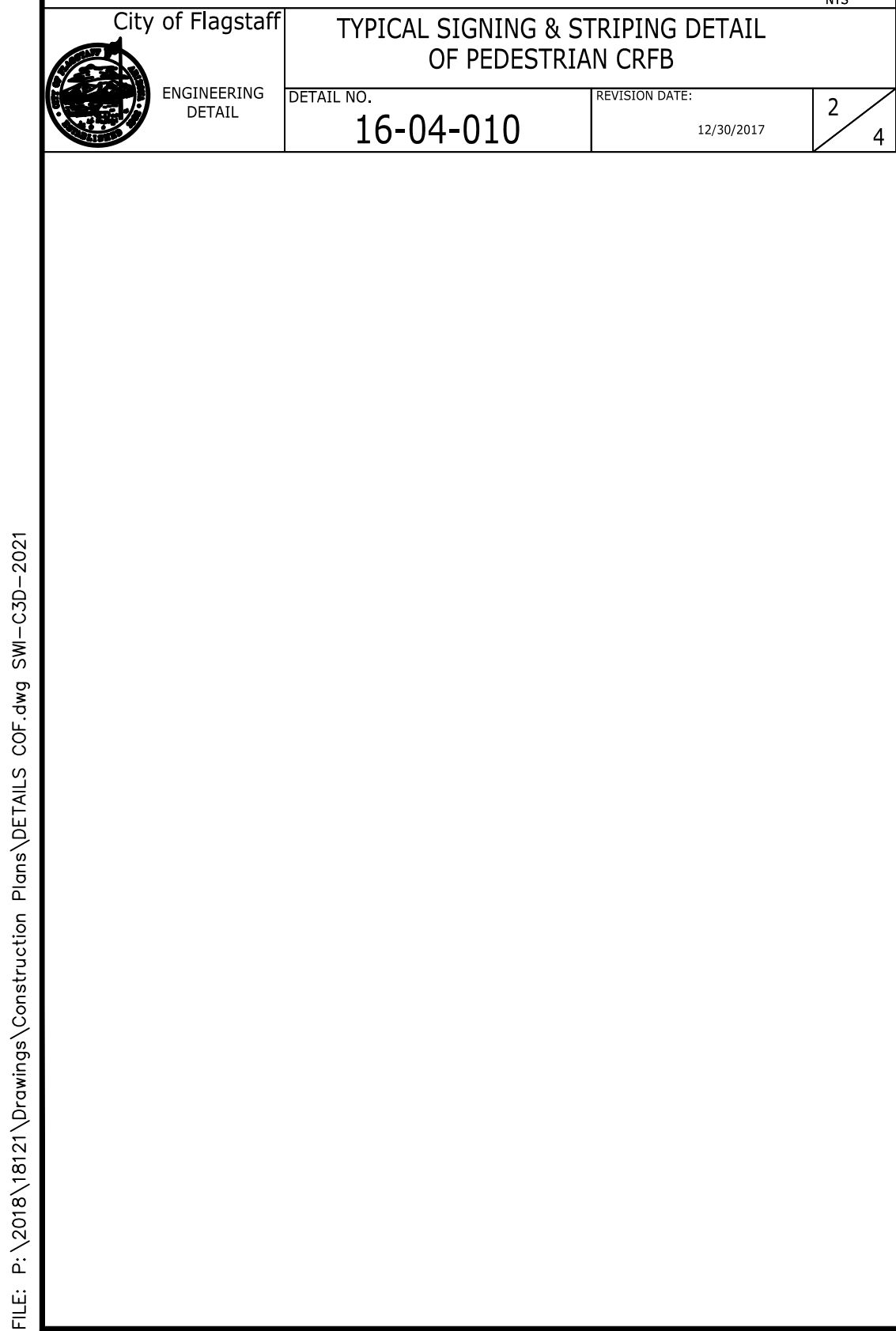
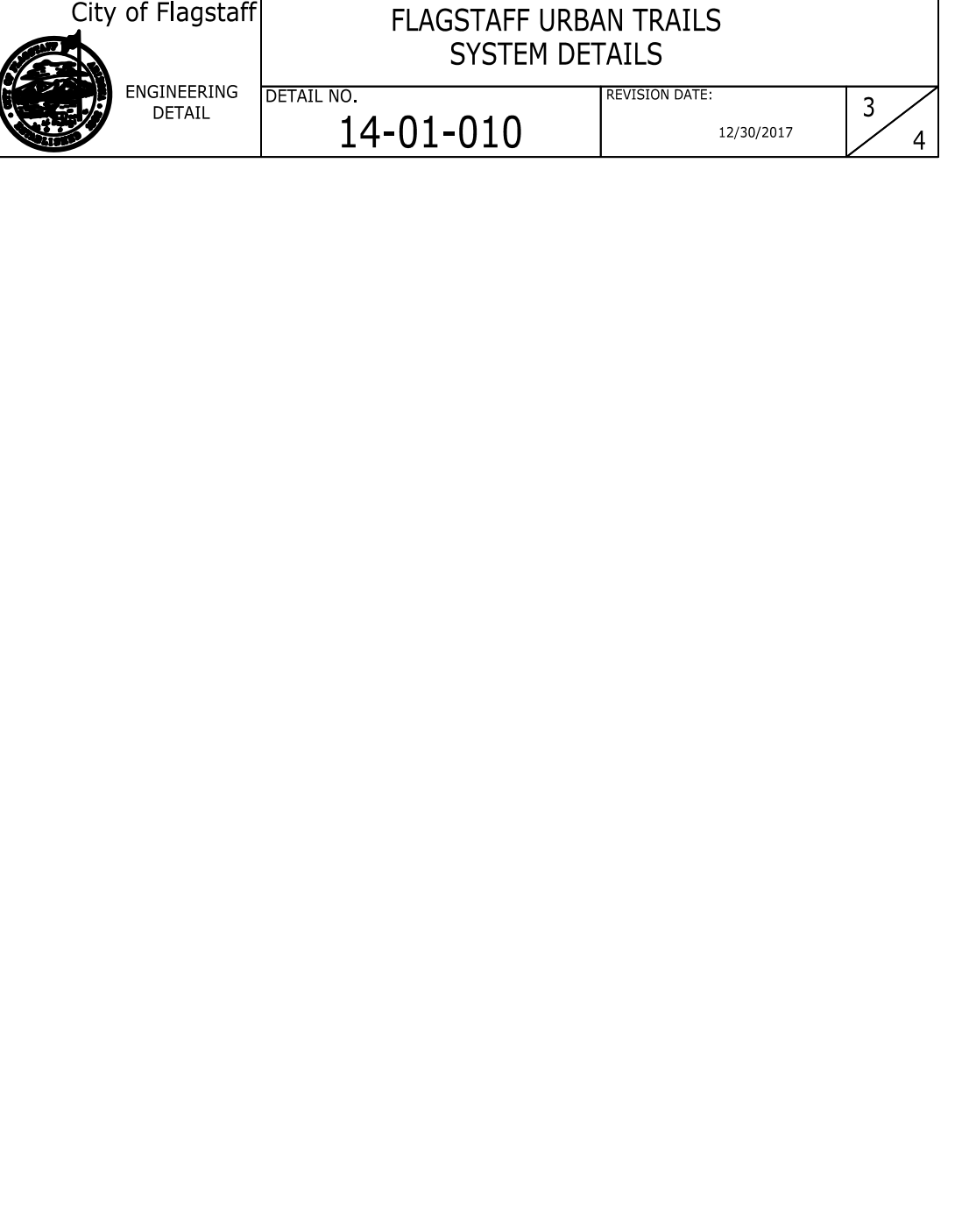
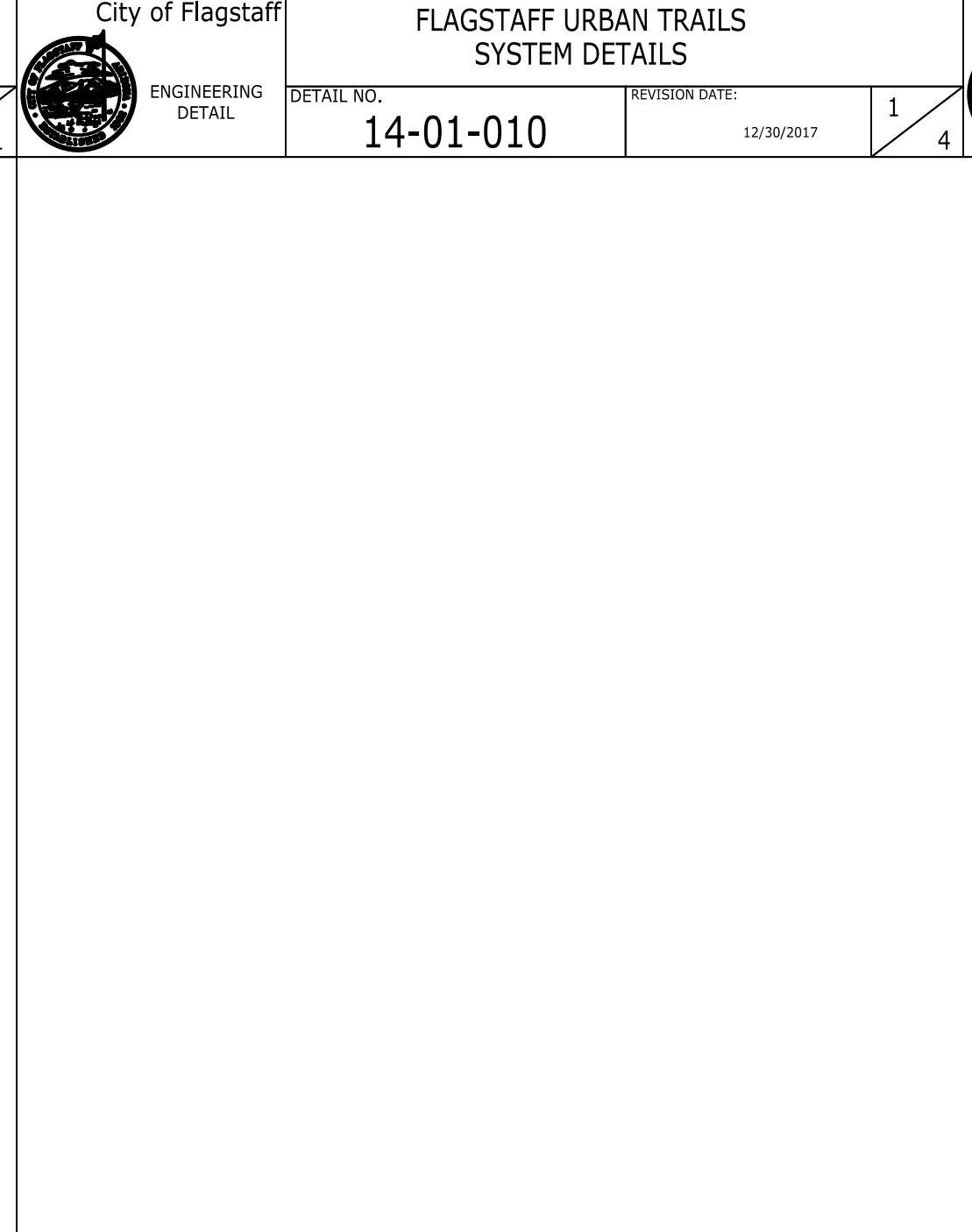
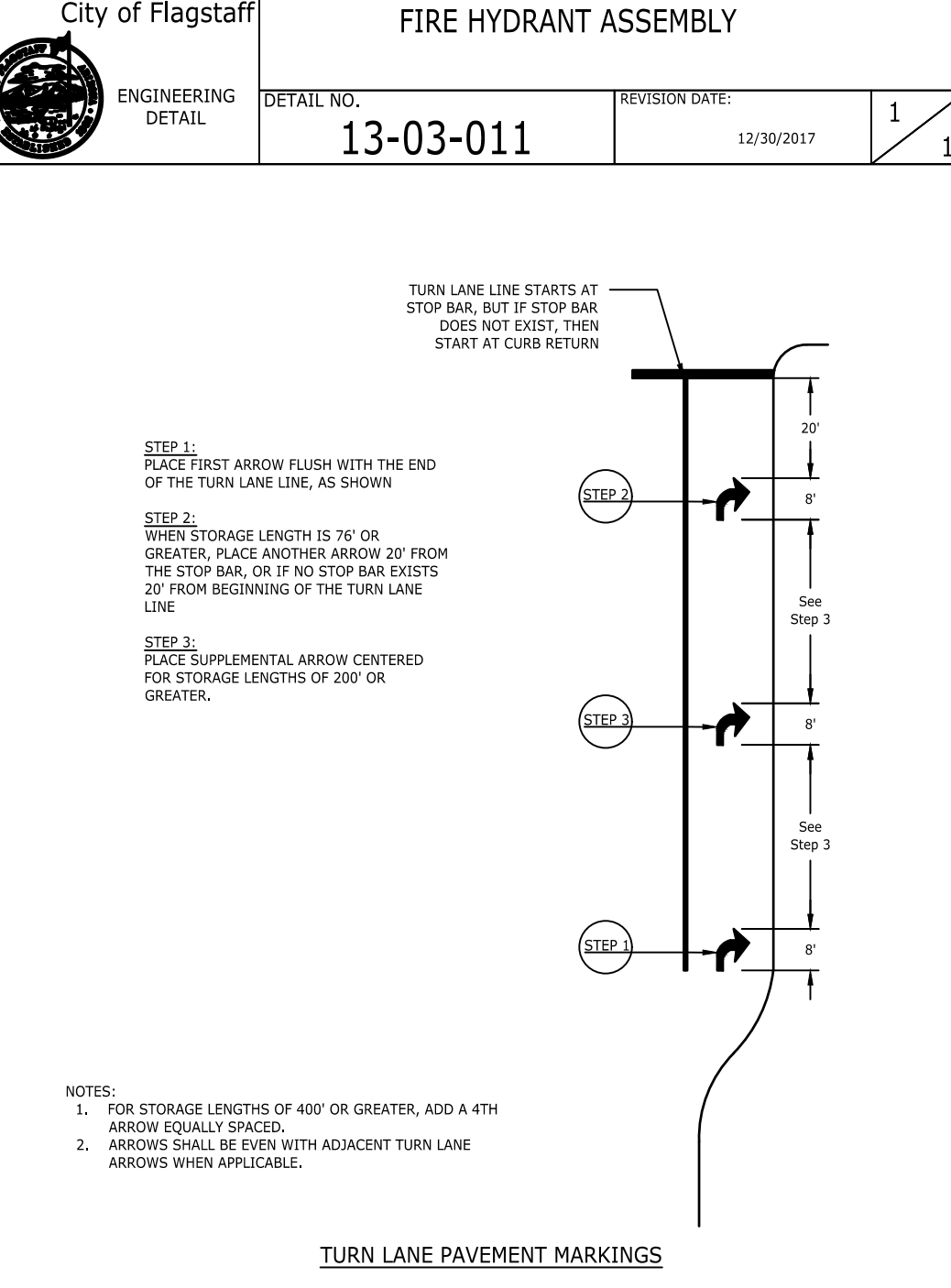
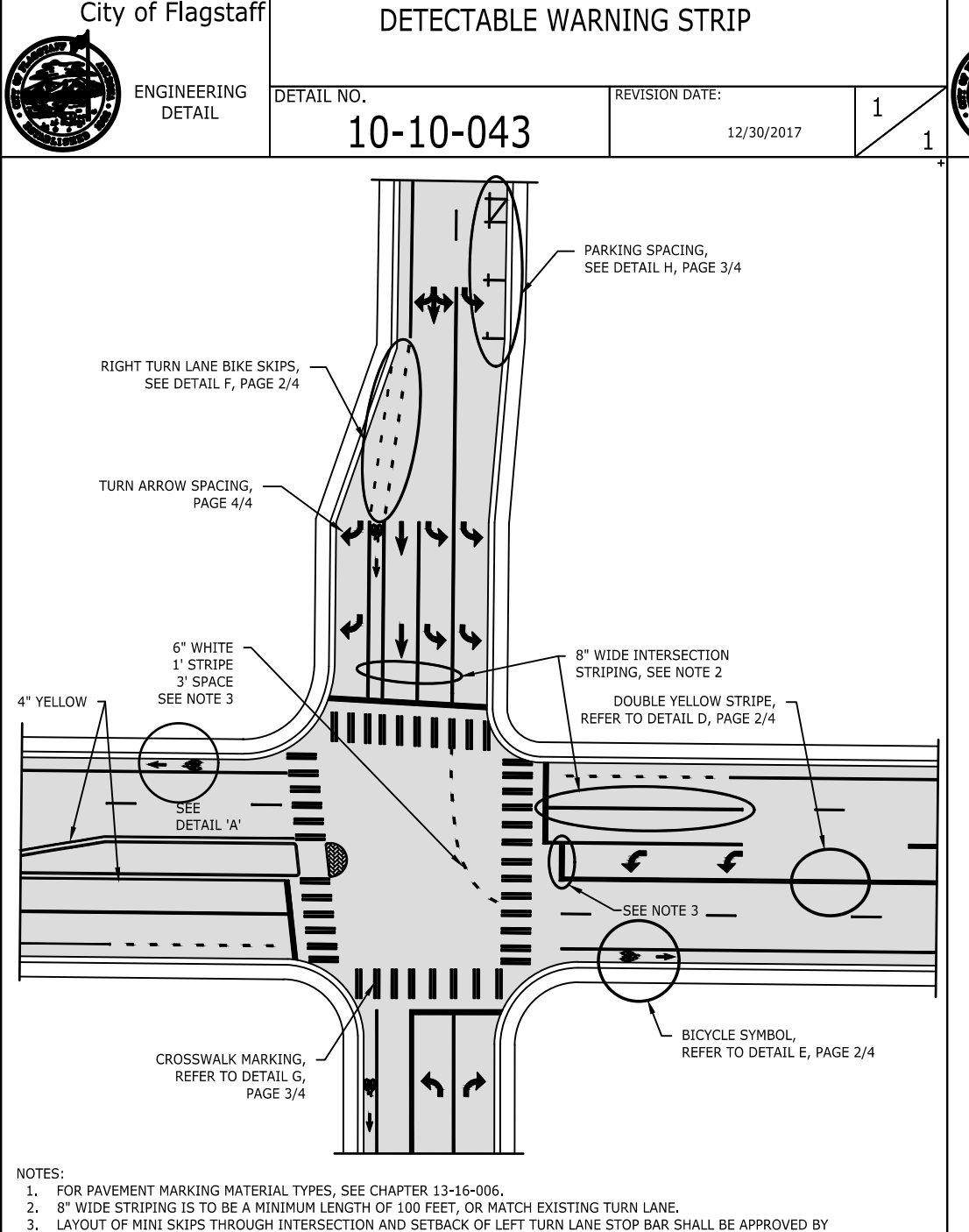
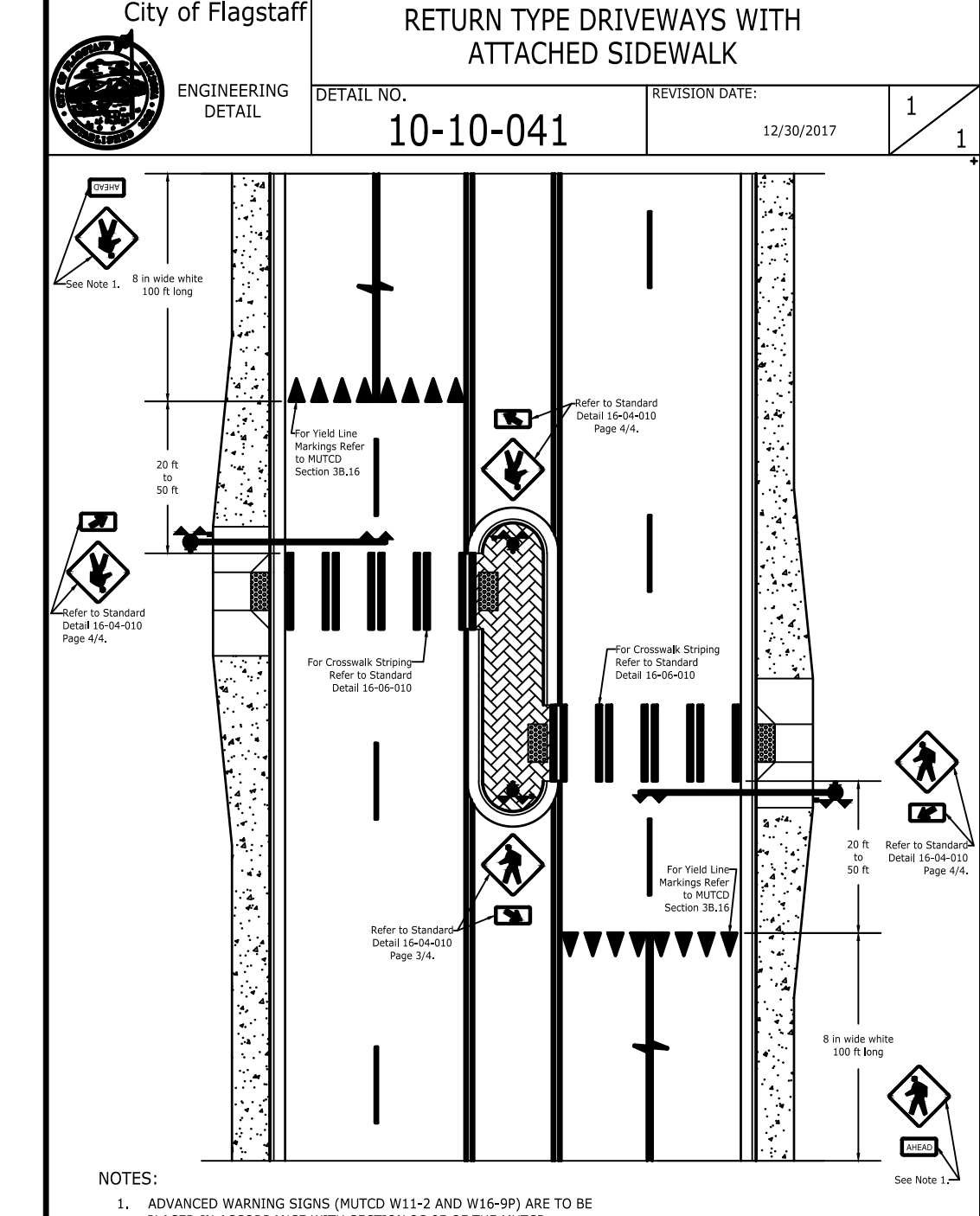
NO.	DESCRIPTION	DATE	BY

Call at least two full working days before you begin excavation.  
 ARIZONA811  
 Arizona Blue Stakes, Inc. (928-5348)  
 Ddd 84-11 or 1-800-574-6211

60% PRELIMINARY  
 NOT FOR CONSTRUCTION, BIDDING OR RECORDING

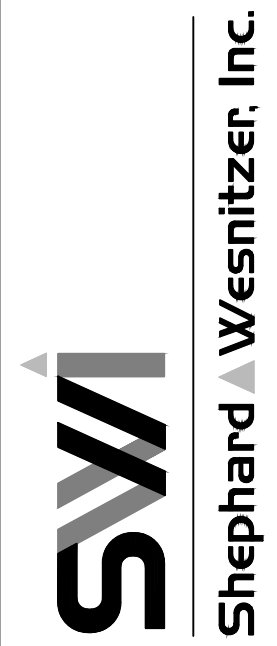
DRAWING NO. **DT01**

SHT NO. 3 OF 62  
 C.O.F. Project #PZ XX-XXXX



JOB NO.:	18121
DATE:	JUN 21
SCALE:	N/A
DRAWN:	KMF/CNP
DESIGN:	KMF/CNP
CHECKED:	SCI

110 W. Dole Avenue  
 Flagstaff, AZ 86001  
 928.774.0354  
 928.774.8934 fax  
 www.swi.az.com



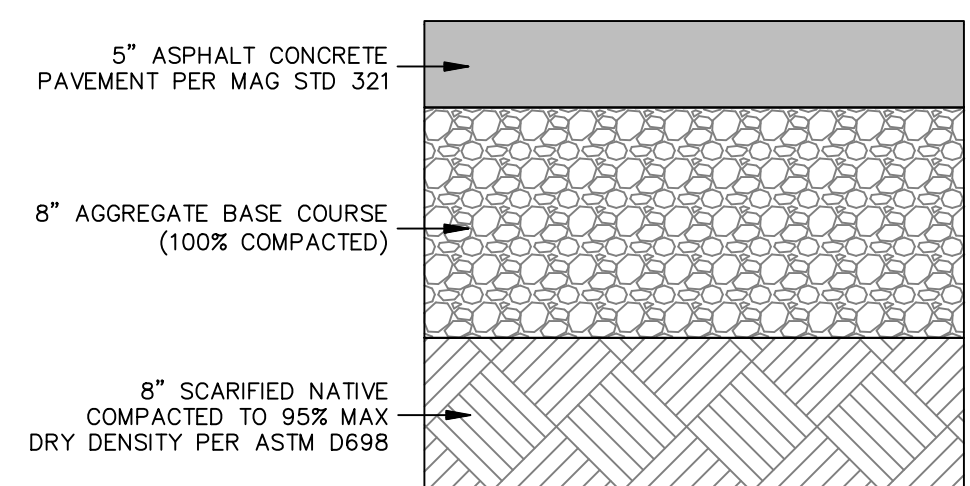
NO.	DESCRIPTION	BY	DATE

Call at least two full working days before you begin excavation.  
**ARIZONA 811**  
 Arizona Blue Stakes, Inc. (928-5348)  
 Dial 8-1-1 or 1-800-514-6111 (928-5348)

DRAWING NO. **DT02**

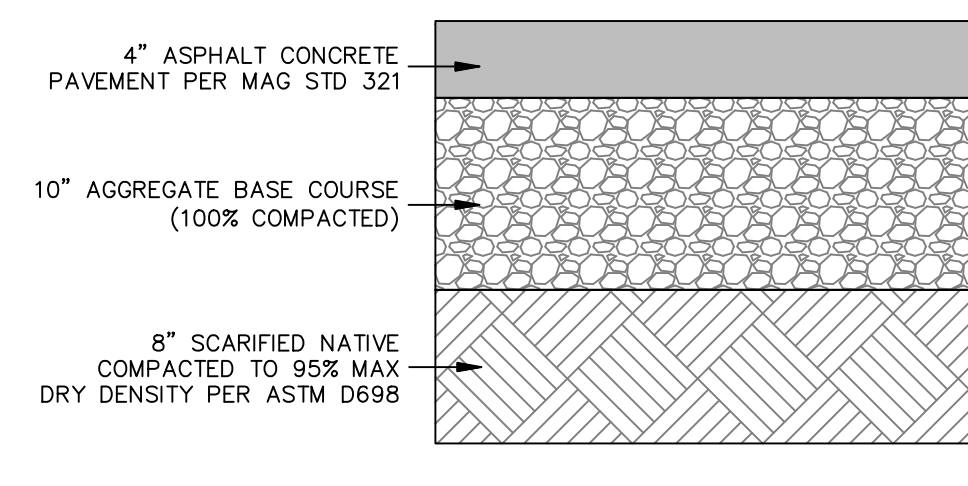
SHT NO. 4 OF 62

60%  
**PRELIMINARY**  
 NOT FOR CONSTRUCTION,  
 BIDDING OR RECORDING



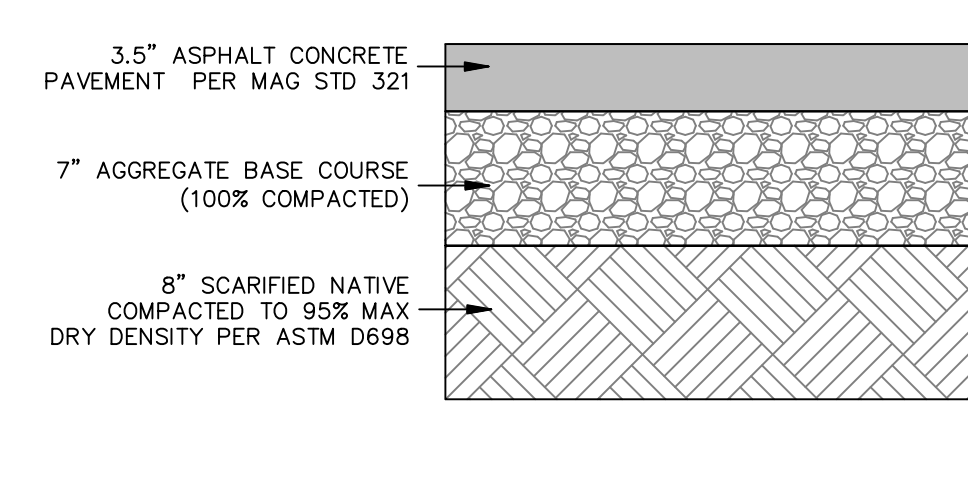
\*SEE GEOTECHNICAL REPORT (SPEEDIE AND ASSOCIATES DATED 06-20-2017 AND ADDENDUM #2 DATED 01-11-2018) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**ARTERIAL ASPHALT PAVEMENT** (1) NO SCALE (DT03)



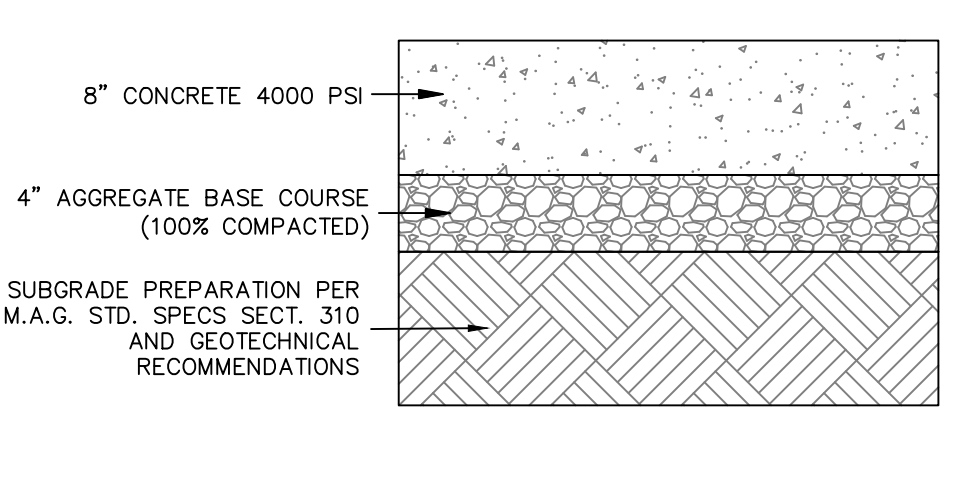
\*SEE GEOTECHNICAL REPORT (SPEEDIE AND ASSOCIATES DATED 06-20-2017 AND ADDENDUM #2 DATED 01-11-2018) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**COLLECTOR ASPHALT PAVEMENT** (2) NO SCALE (DT03)



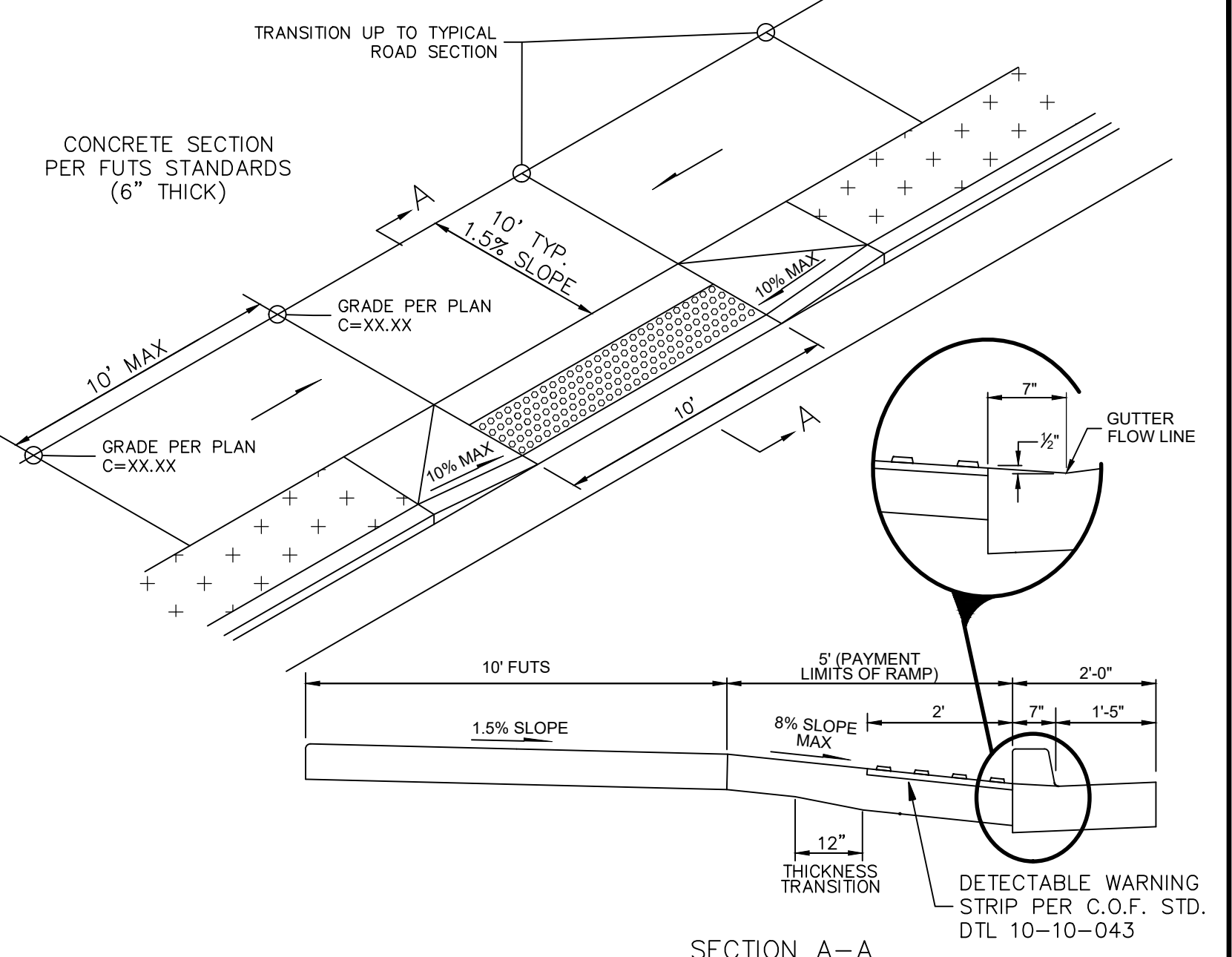
\*SEE GEOTECHNICAL REPORT (SPEEDIE AND ASSOCIATES DATED 06-20-2017 AND ADDENDUM #2 DATED 01-11-2018) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**ONSITE-ASPHALT REPLACEMENT** (3) NO SCALE (DT03)

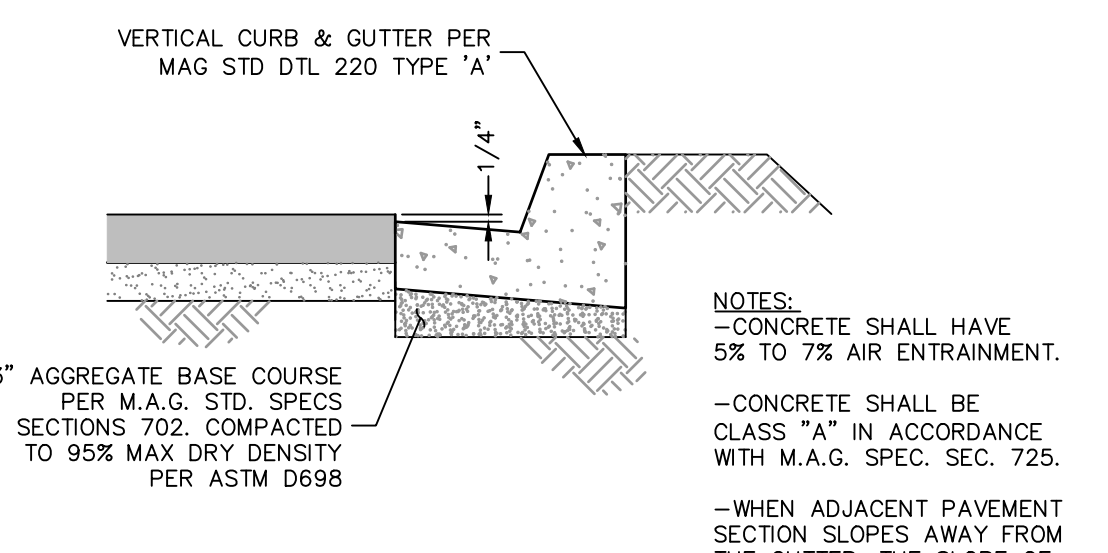


\*SEE GEOTECHNICAL REPORT FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**CONCRETE PAVEMENT SECTION** (4) NO SCALE (DT03)

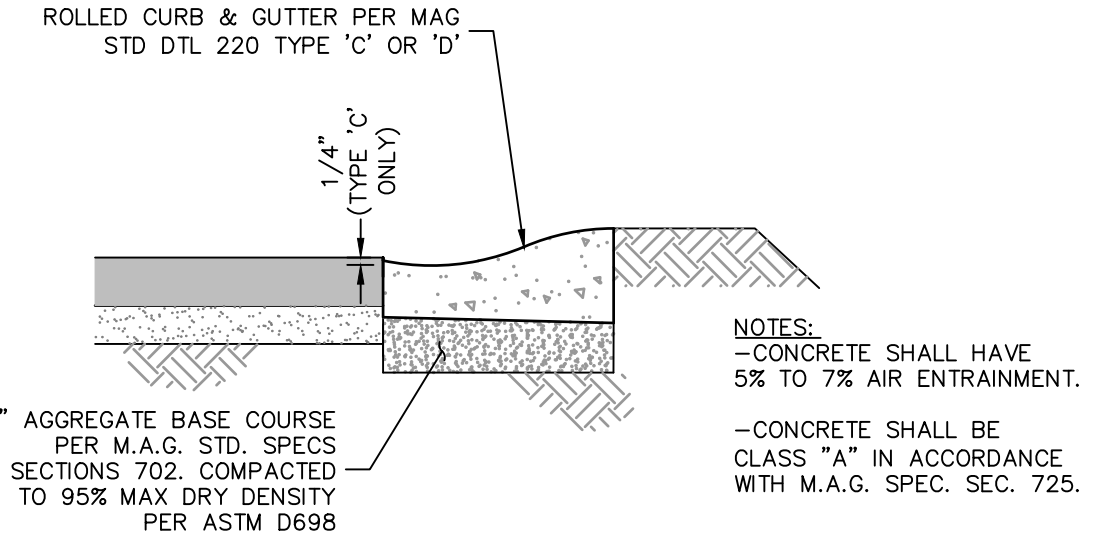


**ROUNDABOUT FUTS RAMP** (11) NO SCALE (DT03)



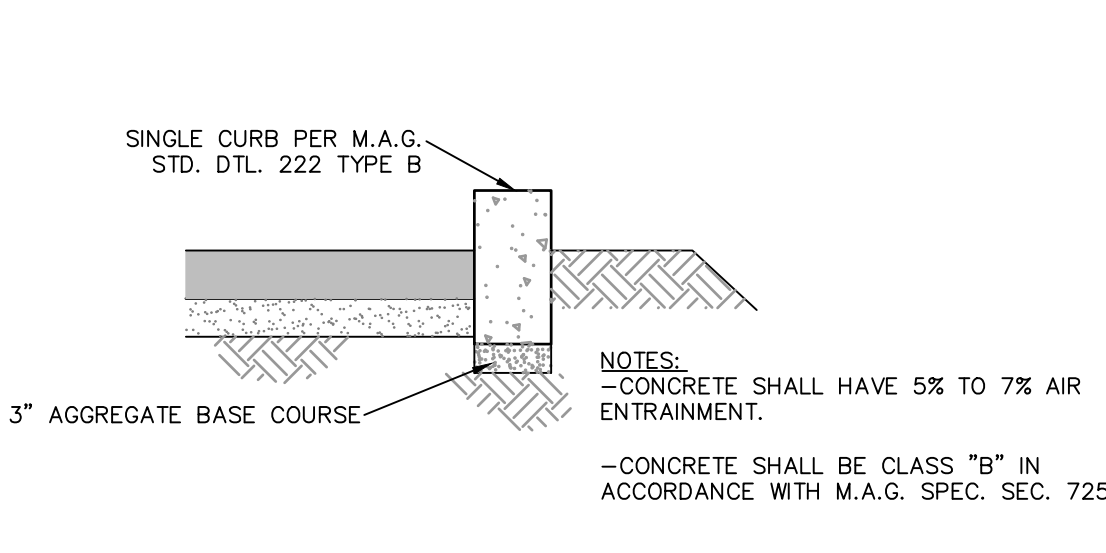
\*SEE GEOTECHNICAL REPORT #2529JB006 (WESTERN TECHNOLOGIES, INC) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**VERTICAL CURB & GUTTER** (5) NO SCALE (DT03)



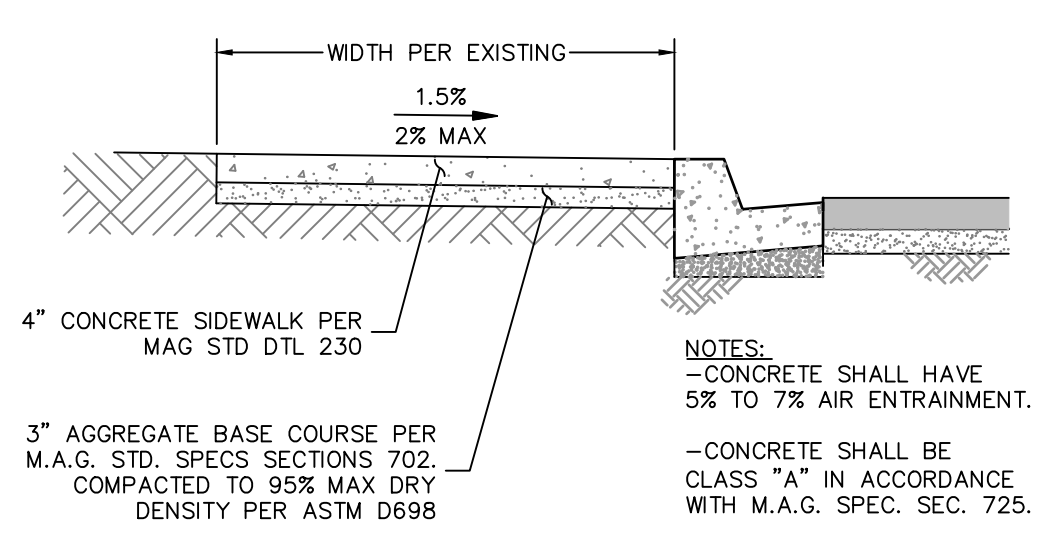
\*SEE GEOTECHNICAL REPORT #2529JB006 (WESTERN TECHNOLOGIES, INC) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**ROLLED CURB & GUTTER** (6) NO SCALE (DT03)



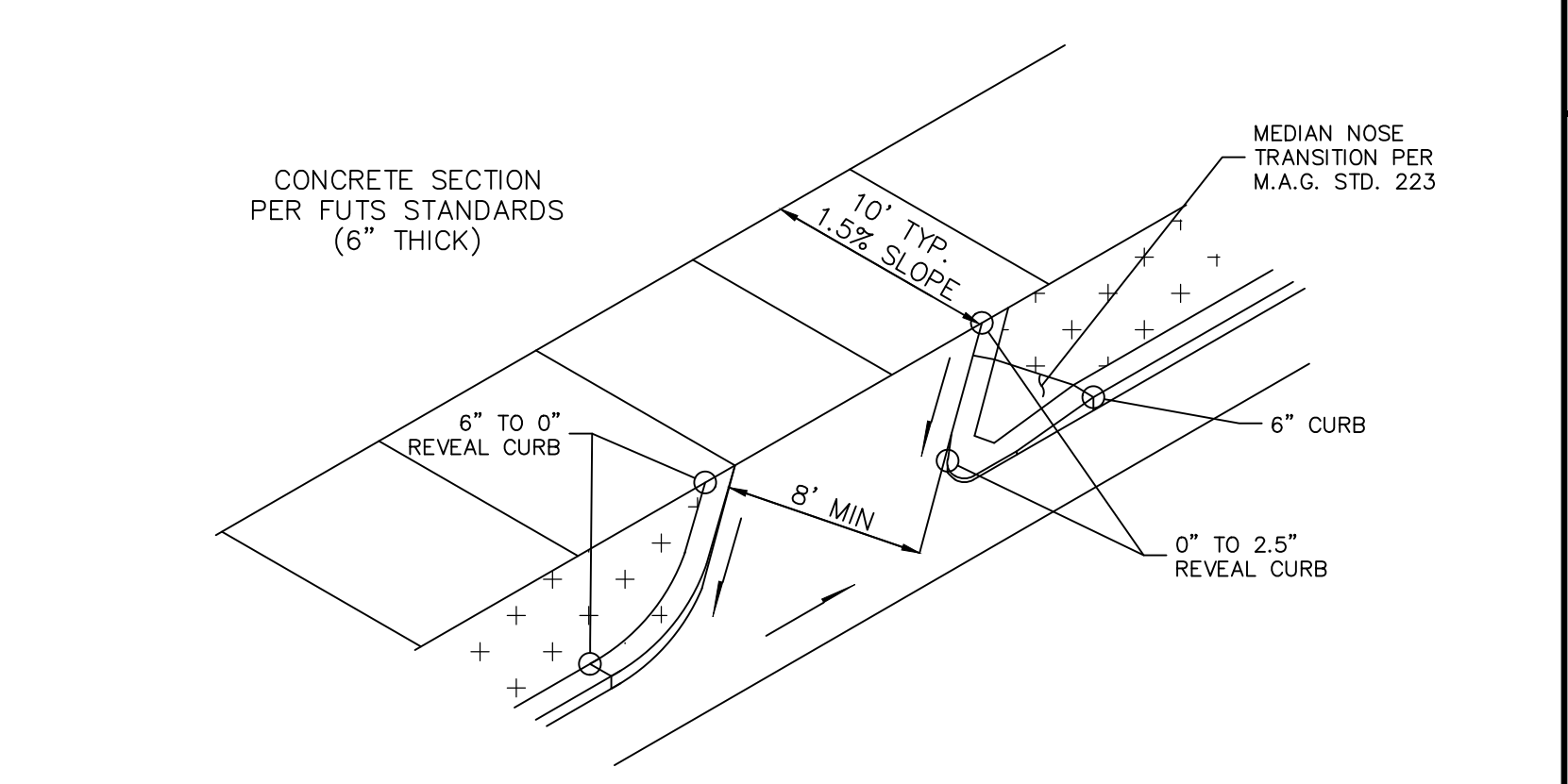
\*SEE GEOTECHNICAL REPORT (WESTERN TECHNOLOGIES INC. DATED 10-4-2019) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**SINGLE CURB** (7) NO SCALE (DT03)

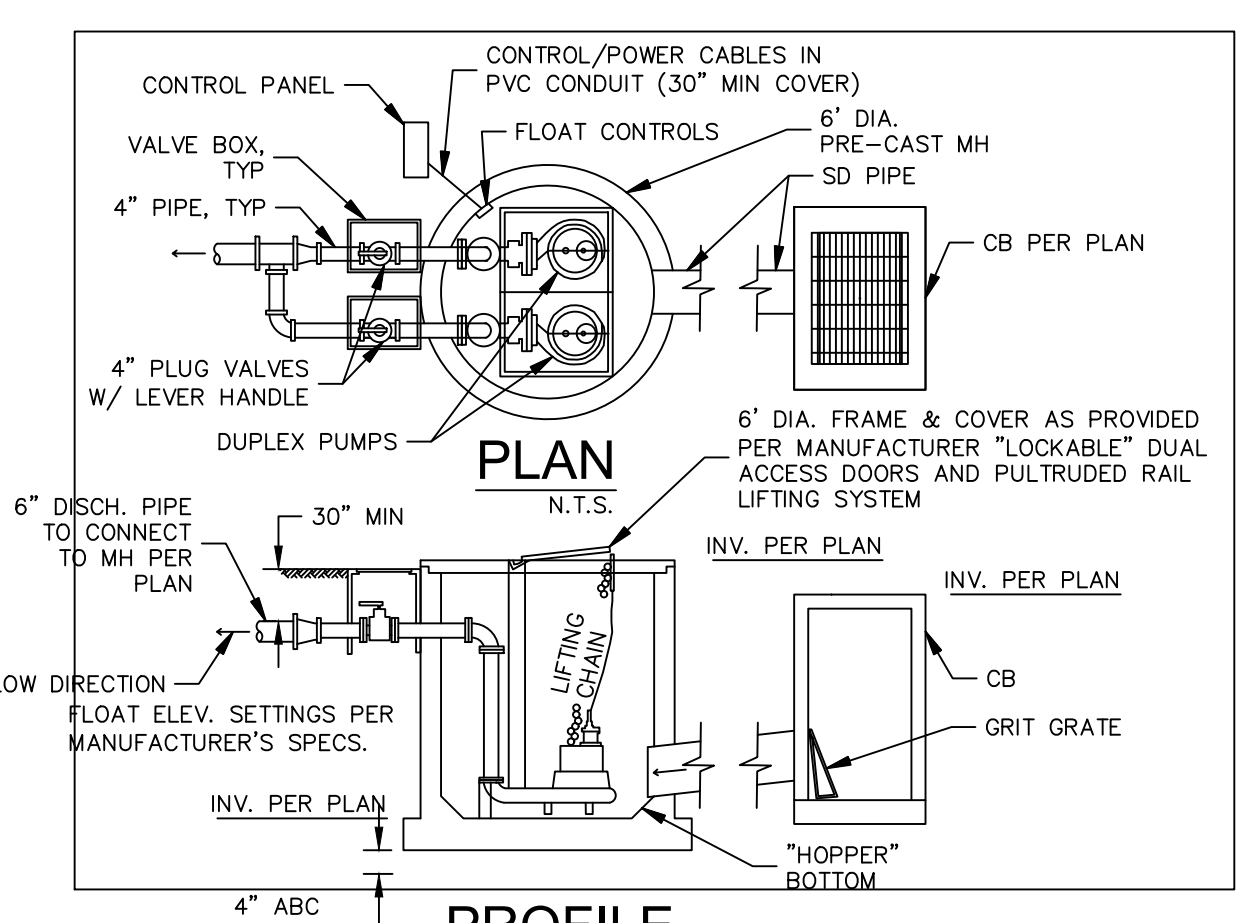


\*SEE GEOTECHNICAL REPORT #2529JB006 (WESTERN TECHNOLOGIES, INC) FOR COMPACTION AND EARTHWORK RECOMMENDATIONS

**SIDEWALK** (8) NO SCALE (DT03)



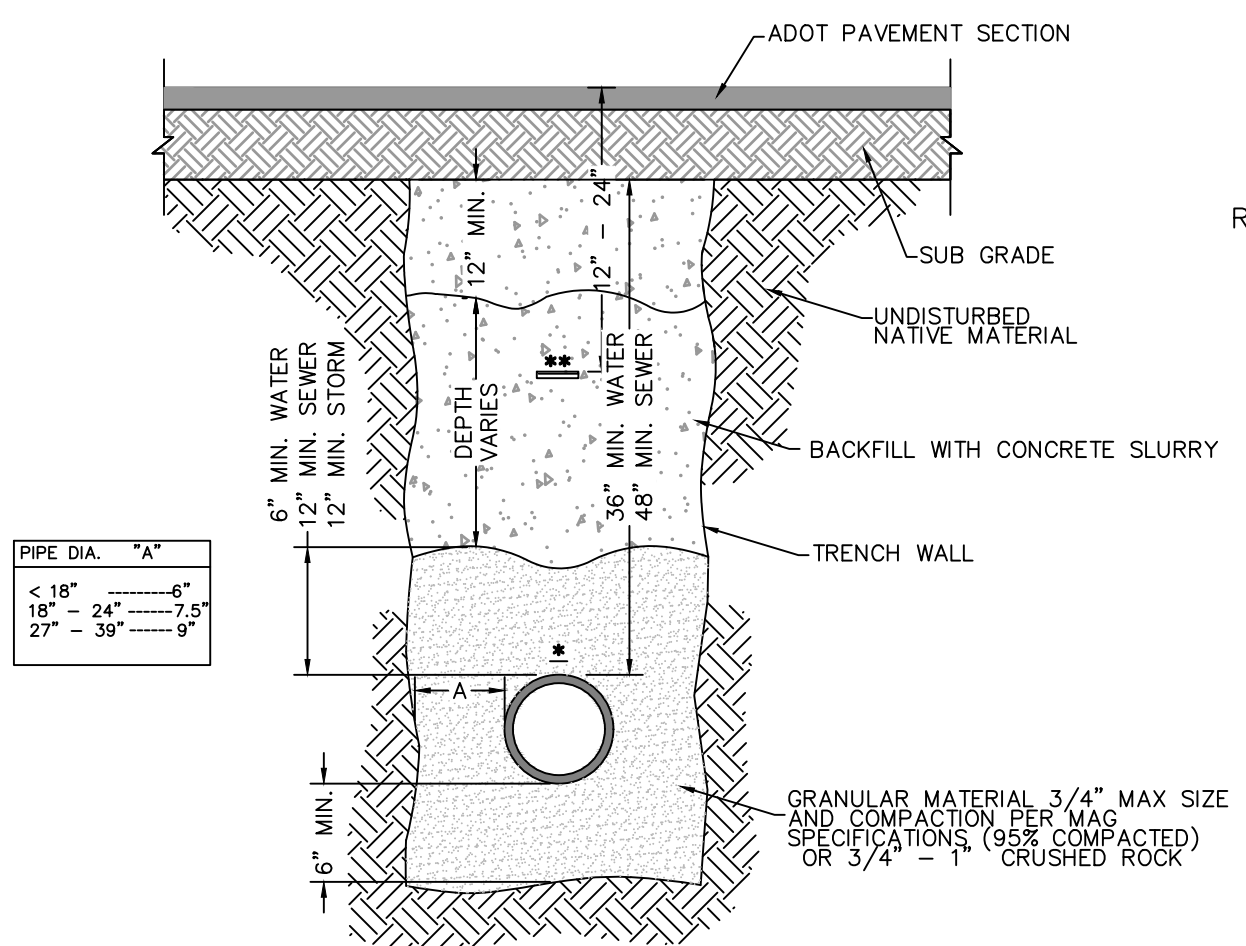
**ROUNDABOUT BIKE RAMP** (12) NO SCALE (DT03)



**NOTES**

- ALL DISCHARGE PIPING SHALL BE CLASS 350 DIP, EITHER FLANGER OR FULLY JOINT RESTRAINED USING "MEGA LUG" OR APPROVED EQUAL.
- ALL "BURRIED" PIPE SHALL BE "POLYWRAPPED" PER M.A.G. SPECS.
- OUTLET OF 6" PIPE TO MH SHALL BE EQUIPPED WITH A "TIDEFLEX" CHECK VALVE BY RED VALVE CO. OR APPROVED EQUAL.
- DUPLEX 4" PUMP INSTALLATION PER SPECIAL PROVISIONS WITH THE FOLLOWING FEATURES:
  - 2 - 7.5 H.P. NON-CLOG PUMPS (480 V. 3-PHASE).
  - PULTRUDED RAIL SYSTEM PER THE SPECIAL PROVISIONS.
  - CONCRETE WET WELL PER DETAILS ON THIS SHEET.
- A "FREE STANDING" CONTROL PANEL SHALL BE INCLUDED AS FOLLOWS:
  - PANEL AND FEATURES PER SPECIAL PROVISIONS.
  - PEDESTAL FOR CONTROL PANEL SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
- POWER SOURCE WAITING PER PLAN BY OTHERS.
- ALL MANHOLE PENETRATIONS SHALL RECEIVE WATER SEAL GASKETS OR APPROVED EQUAL.
- ALL ANCHORS BETWEEN PUMP ASSEMBLY AND CONCRETE MANHOLE SHALL BE PER MANUFACTURER'S SPECS.
- PVC CONDUIT W/ CONTROL CABLES SHALL BE SEALED WATER/GAS TIGHT AT MANHOLE PENETRATION.

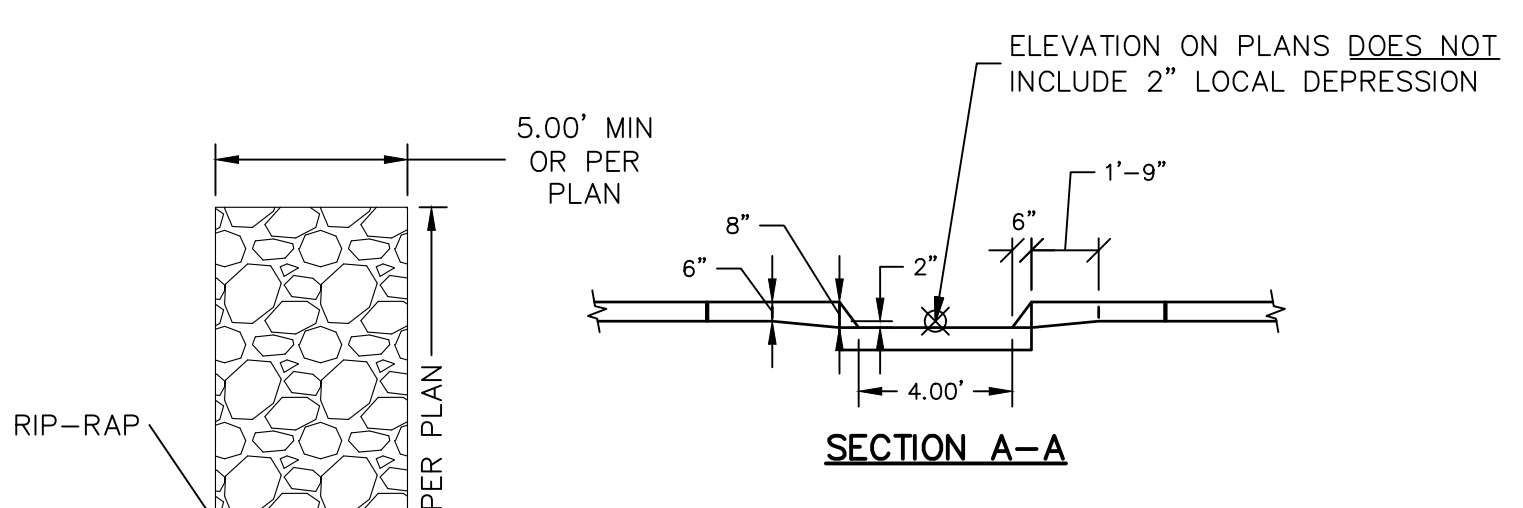
**SUMP PUMP/WET WELL DETAIL** (9) NO SCALE (DT03)



**NOTES:**

- CONCRETE SLURRY BACKFILL SHALL BE PER ADOT SPECS.
- TRACER WIRE TAPED TO TOP CENTER OF MAIN WITH 10MIL PVC TAPE ON 4' CENTERS, SEE COF STD 9-01-020.
- WARNING TAPE

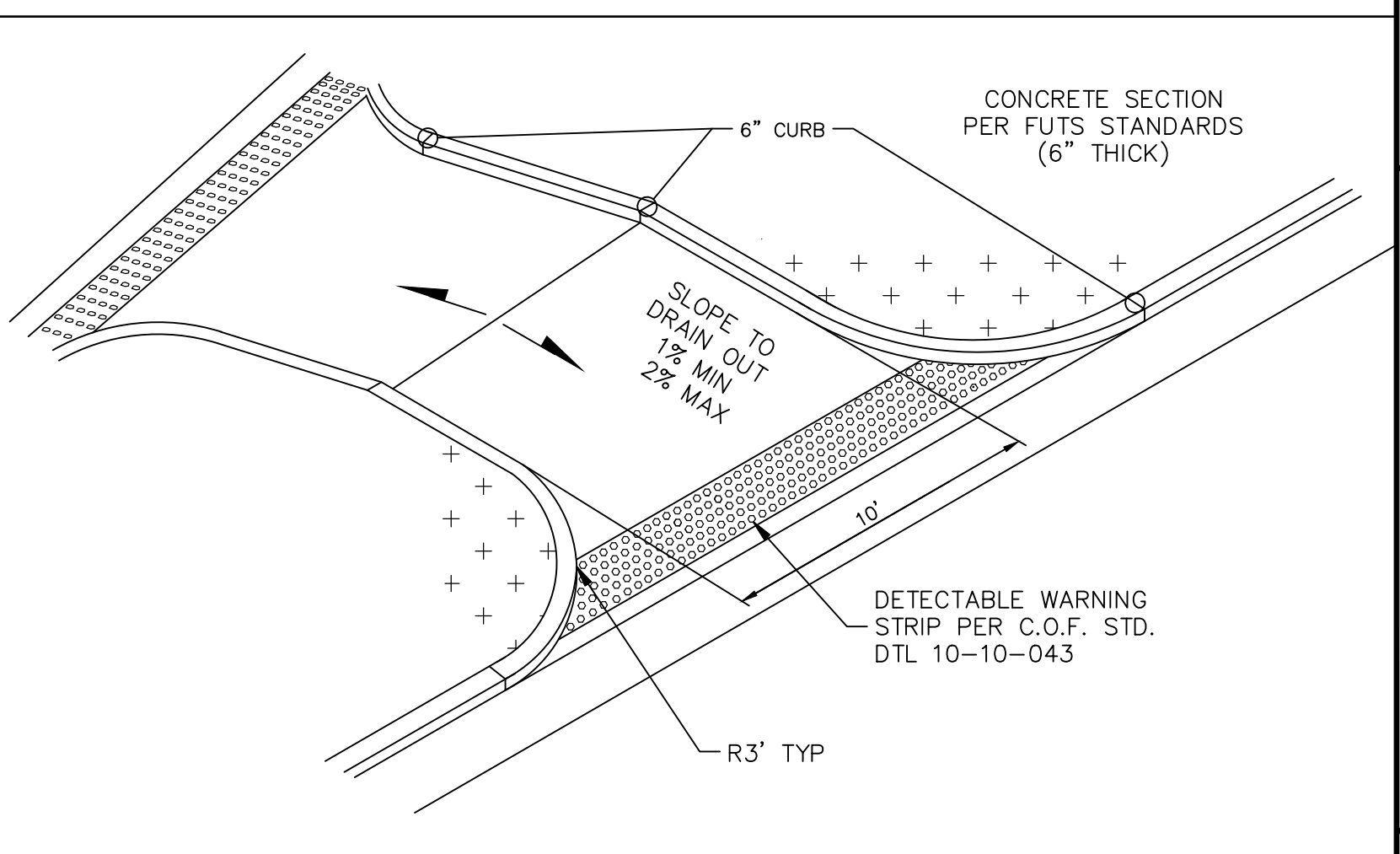
**TRENCHING & BACKFILL DETAIL** (14) NO SCALE (DT03)



**NOTES:**

- TRANSITION TO 2" DEPRESSION AT 4' OPENING.
- RIP-RAP FOR THE SPILLWAY D50=6".

**CURB CUT DETAIL** (10) NO SCALE (DT03)

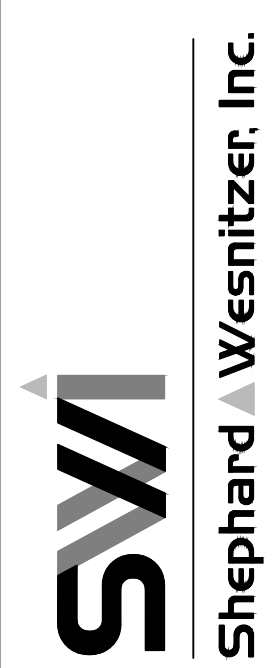


**PEDESTRIAN ISLAND REFUGE** (13) NO SCALE (DT03)

**60% PRELIMINARY**  
NOT FOR CONSTRUCTION, BIDDING OR RECORDING

JOB NO:	18121
DATE:	JUN 21
SCALE:	N/A
DRAWN:	SLV
DESIGN:	SLV
CHECKED:	SCI

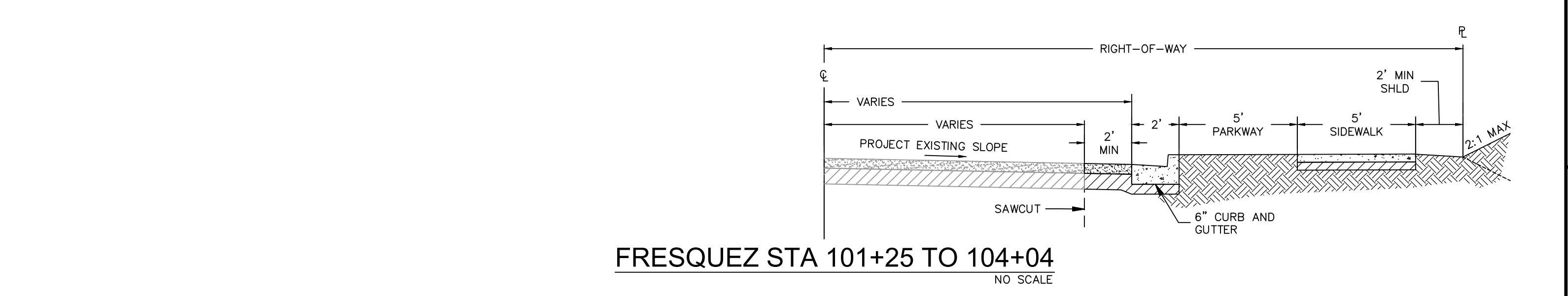
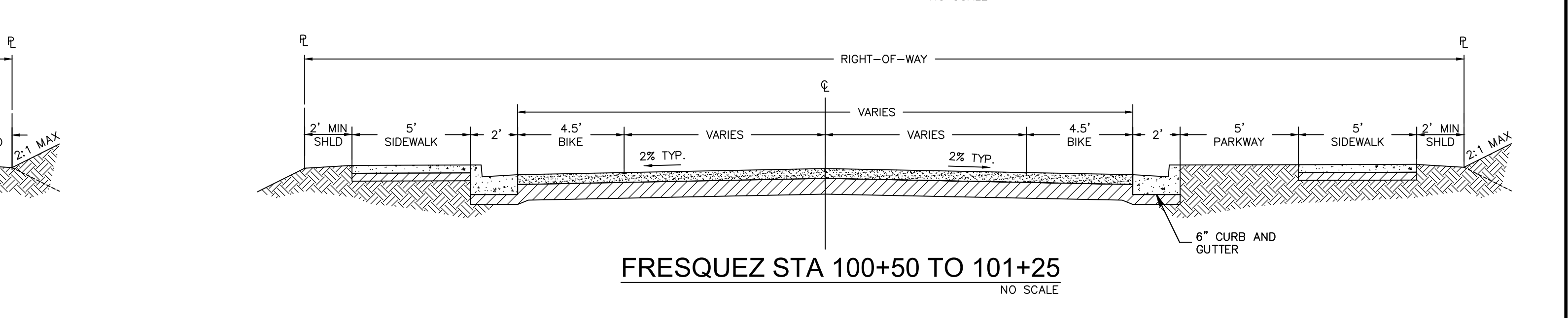
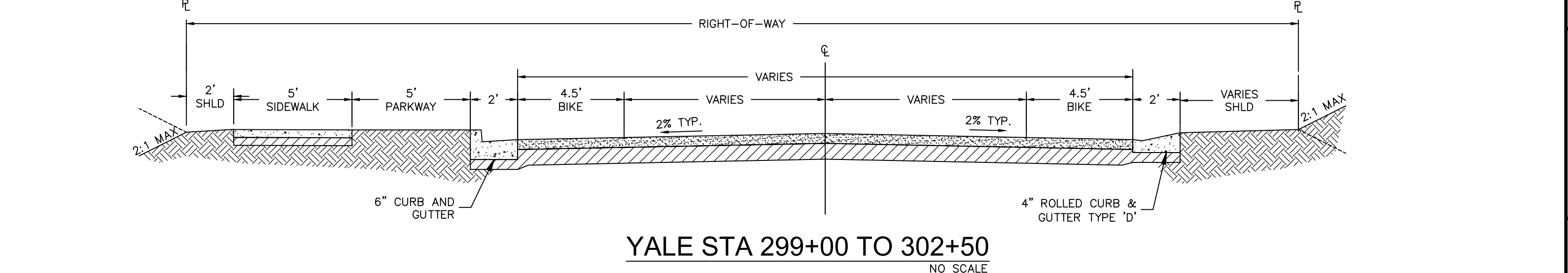
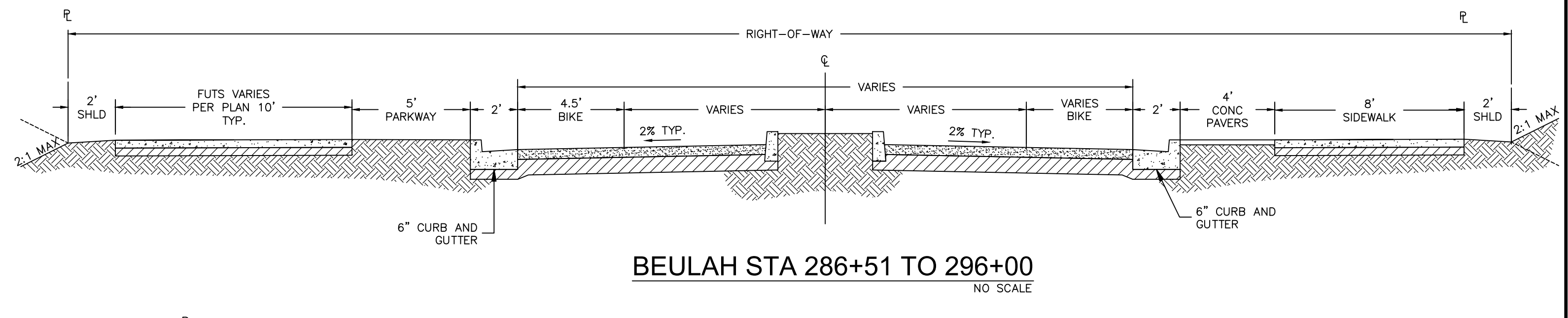
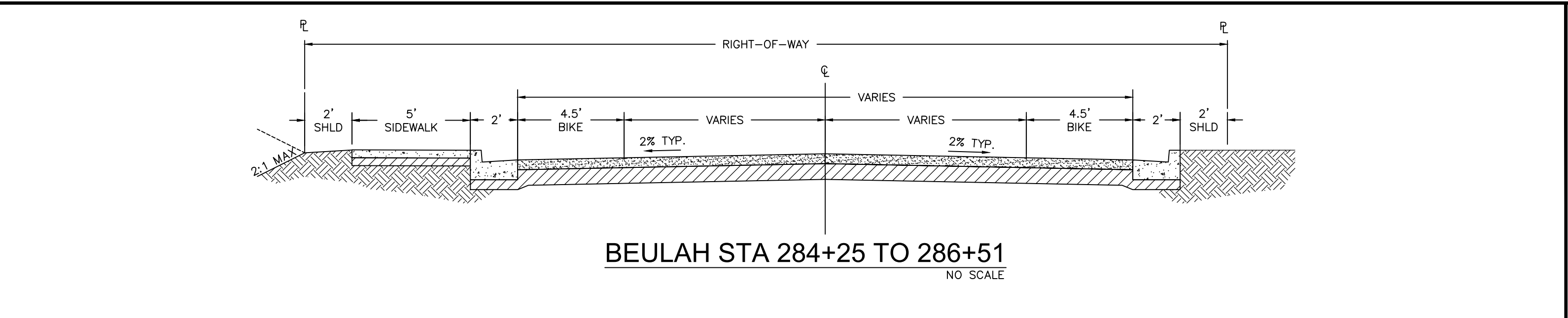
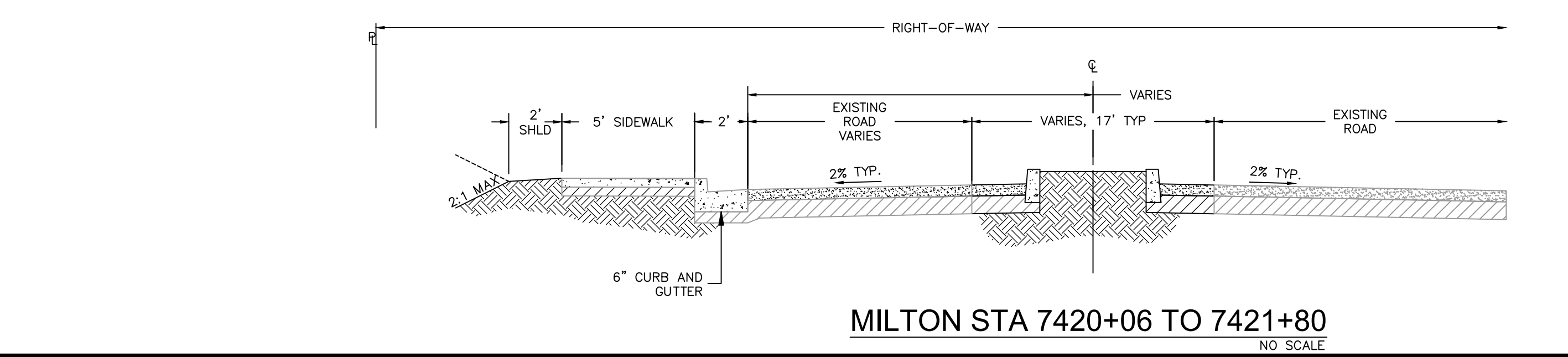
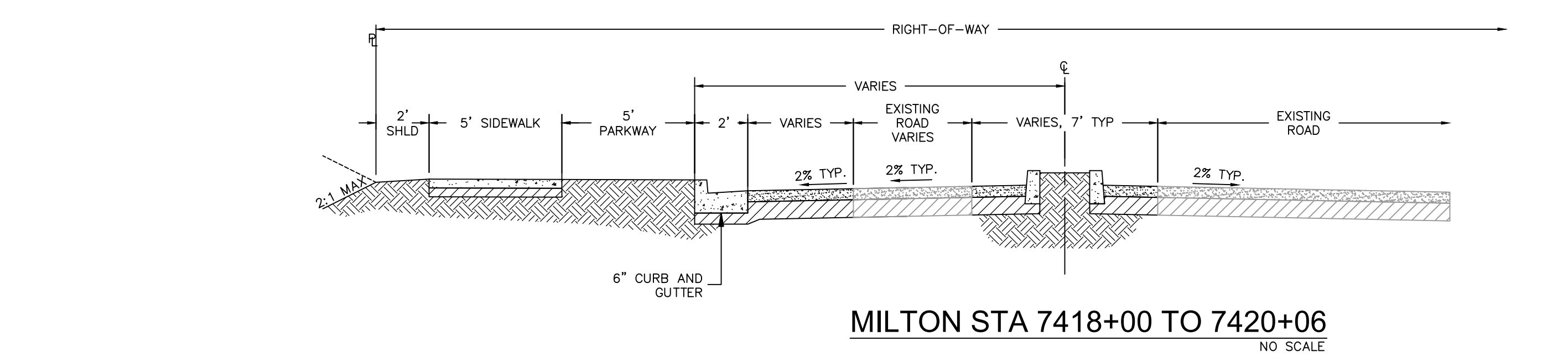
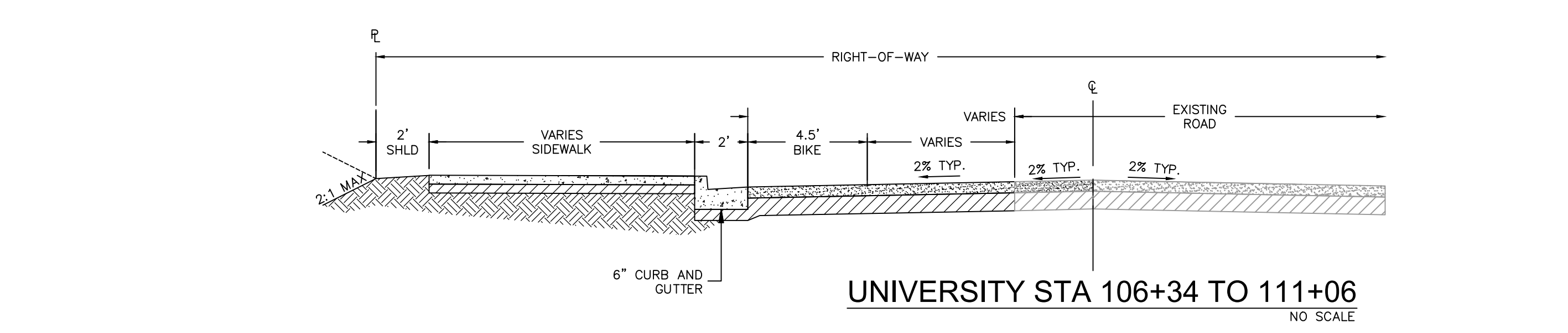
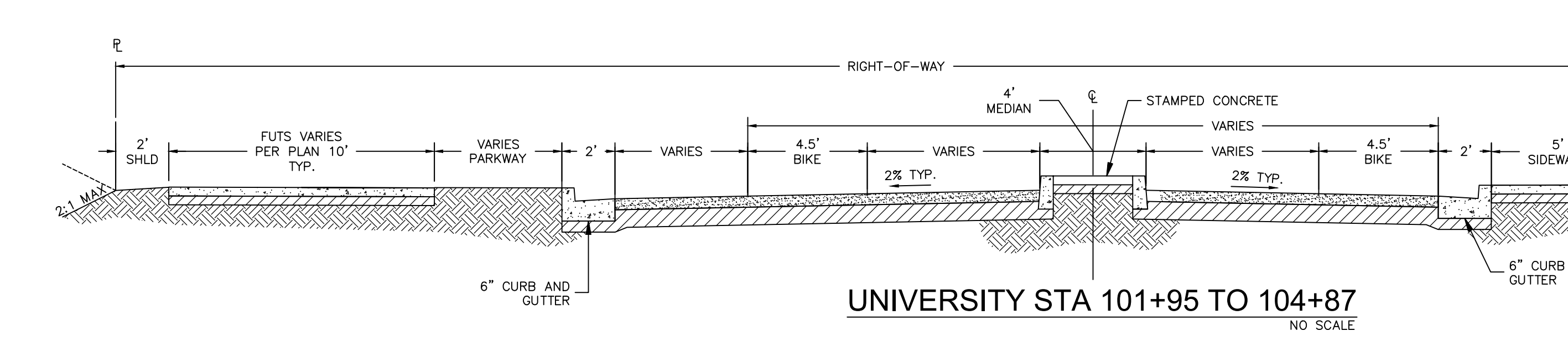
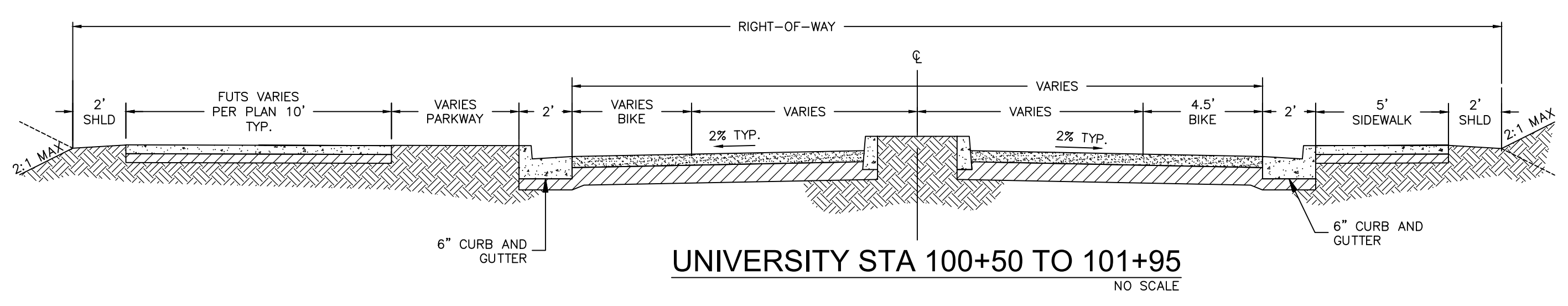
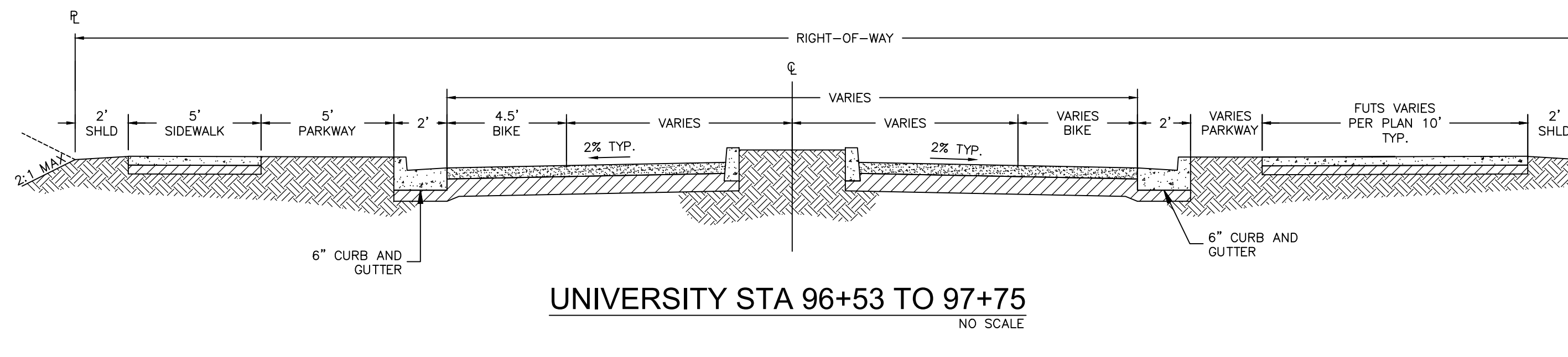
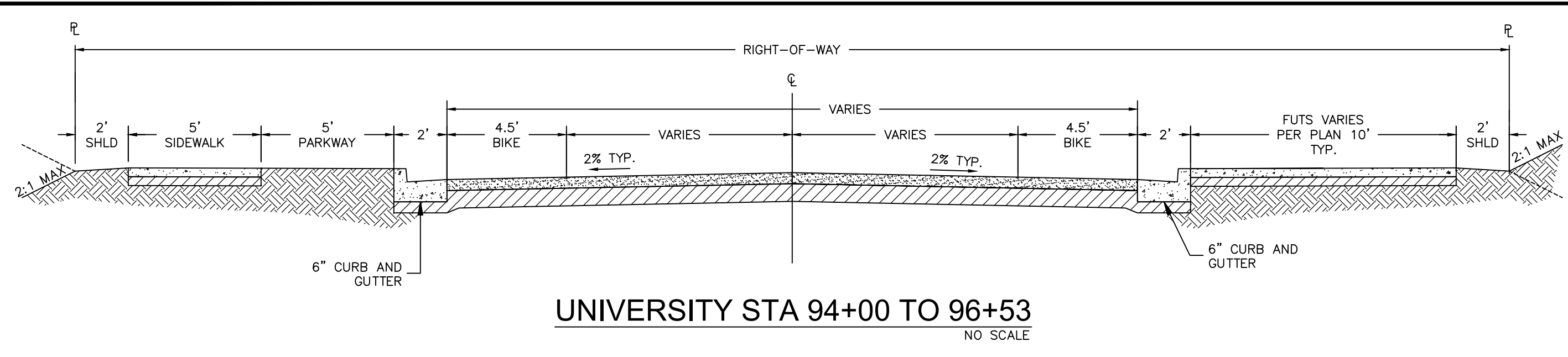
110 W. Dolé Avenue  
Flagstaff, AZ 86001  
928.774.0354  
928.774.8934 fax  
www.swi.coz.com



NO.	DESCRIPTION	DATE	BY

FILE: P:\2018\18121\Drawings\Construction\Plans\DETAILS\ROAD SECTION.dwg SW-C3D-2021

PLOTTED: Jun 28, 2021 - 4:30pm



- GENERAL SHEET NOTES**
- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
  - VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
  - ALL SIDEWALK AND FUTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
  - ALL RADI LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.

**60% PRELIMINARY**  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

C.O.F. Project #PZ XX-XXXX

FLAGSTAFF ARIZONA  
BEULAH & UNIVERSITY IMPROVEMENT PLANS

JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SJV  
DESIGN: SJV  
CHECKED: SCJ

110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.774.0354  
928.774.8934 fax  
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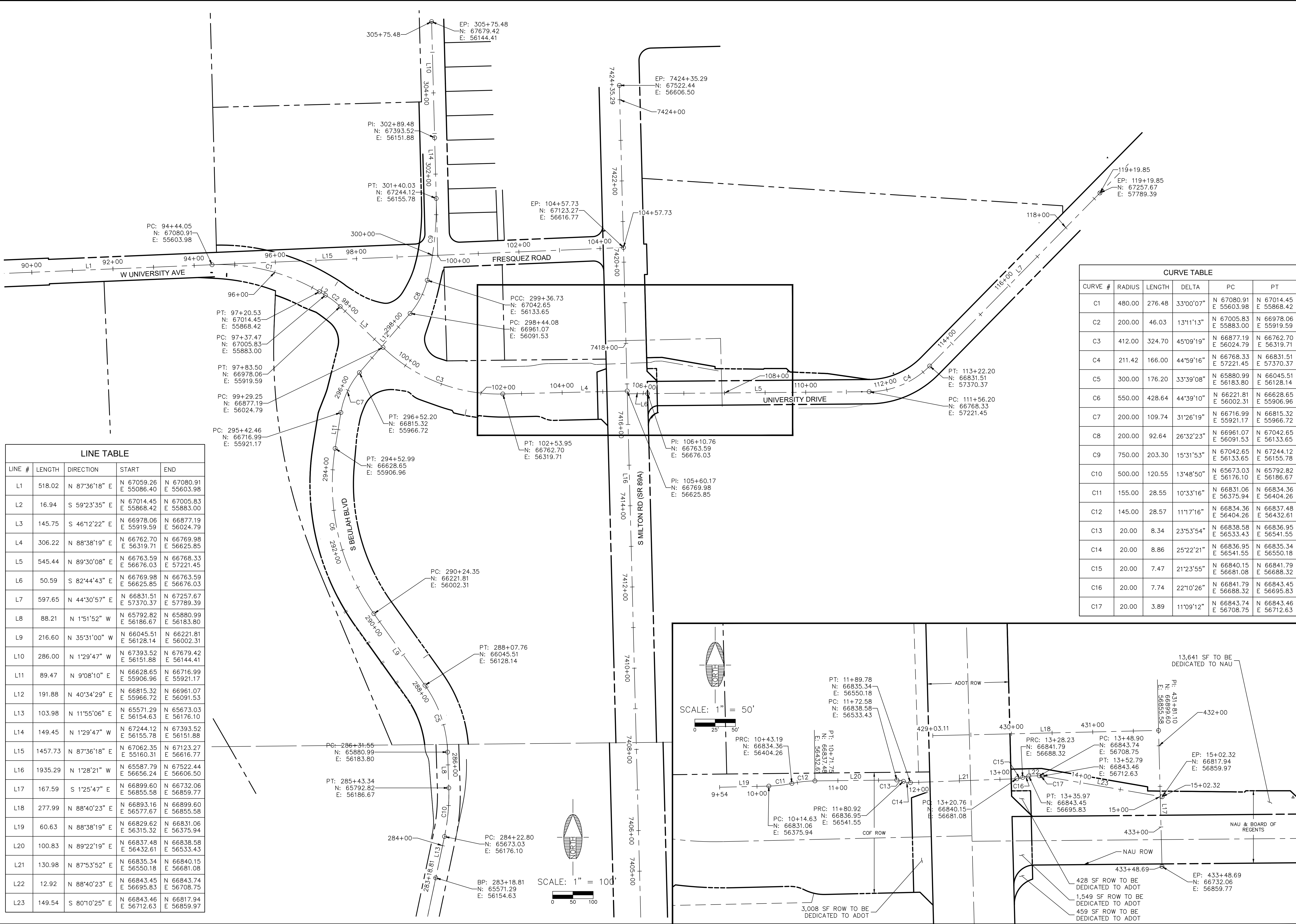
**SWI**  
Shephard Wesnitzer, Inc.

NO.	REVISIONS	DATE	DESCRIPTION

Call at least two full working days before you begin excavation.  
**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-538-8111)  
Dial 8-1-1 or 1-800-514-6111

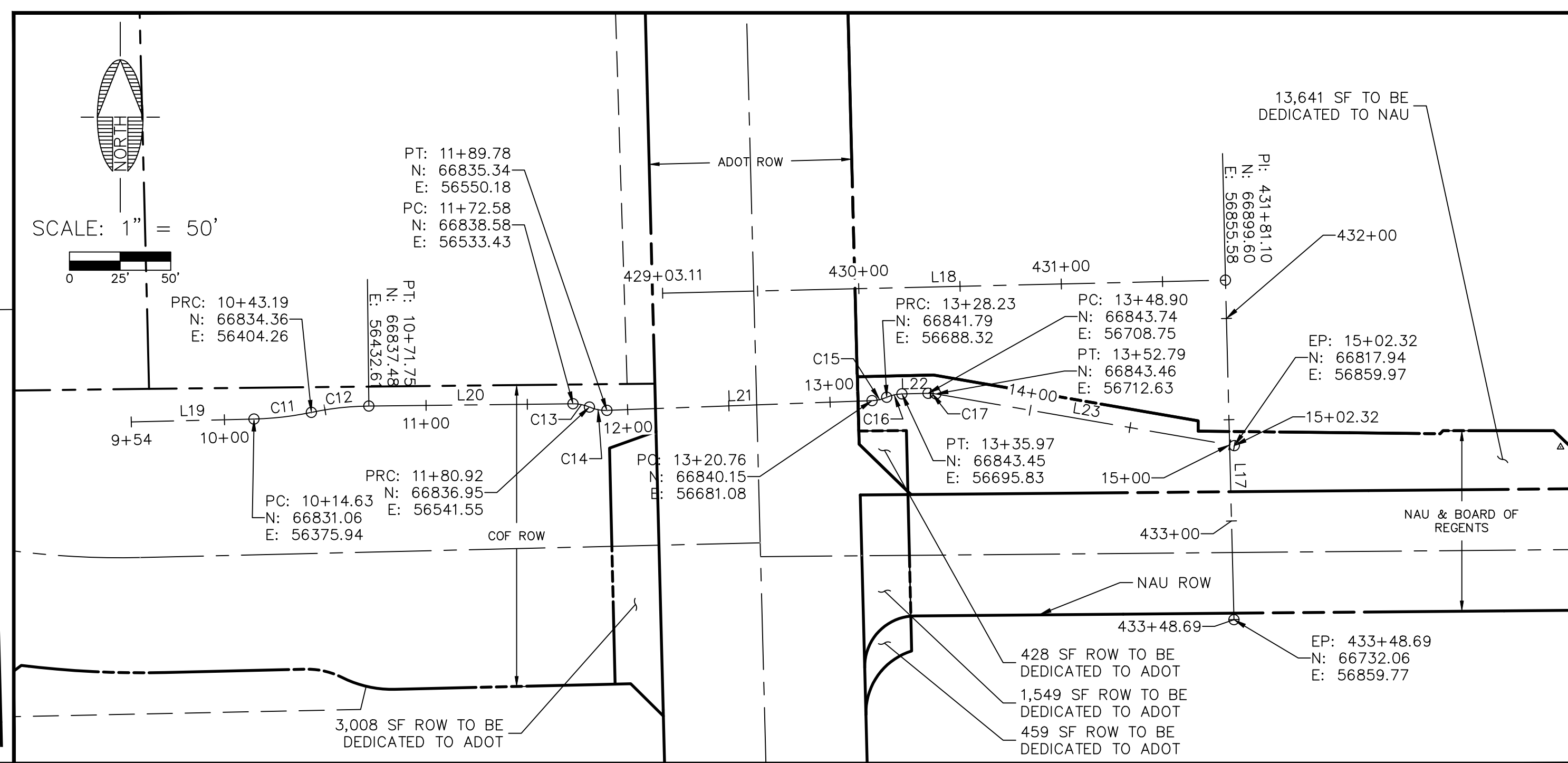
DRAWING NO. **DT04**

SHT NO. 6 OF 62



LINE #	LENGTH	DIRECTION	START	END
L1	518.02	N 87°36'18" E	N 67059.26 E 55086.40	N 67080.91 E 55603.98
L2	16.94	S 59°23'35" E	N 67014.45 E 55868.42	N 67005.83 E 55883.00
L3	145.75	S 46°12'22" E	N 66978.06 E 55919.59	N 66877.19 E 56024.79
L4	306.22	N 88°38'19" E	N 66762.70 E 56319.71	N 66769.98 E 56625.85
L5	545.44	N 89°30'08" E	N 66763.59 E 56676.03	N 66768.33 E 57221.45
L6	50.59	S 82°44'43" E	N 66769.98 E 56625.85	N 66763.59 E 56676.03
L7	597.65	N 44°30'57" E	N 66831.51 E 57370.37	N 65880.99 E 57789.39
L8	88.21	N 1°51'52" W	N 65792.82 E 56186.67	N 65880.99 E 56183.80
L9	216.60	N 35°31'00" W	N 66045.51 E 56128.14	N 66221.81 E 56002.31
L10	286.00	N 1°29'47" W	N 67393.52 E 56151.88	N 67679.42 E 56144.41
L11	89.47	N 9°08'10" E	N 66628.65 E 55906.96	N 66716.99 E 55921.17
L12	191.88	N 40°34'29" E	N 66815.32 E 55966.72	N 66961.07 E 56091.53
L13	103.98	N 11°55'06" E	N 65571.29 E 56154.63	N 65673.03 E 56176.10
L14	149.45	N 1°29'47" W	N 67244.12 E 56155.78	N 67393.52 E 56151.88
L15	1457.73	N 87°36'18" E	N 67062.35 E 55160.31	N 67123.27 E 56616.77
L16	1935.29	N 1°28'21" W	N 65587.79 E 56656.24	N 67522.44 E 56606.50
L17	167.59	S 1°25'47" E	N 66899.60 E 56855.58	N 66732.06 E 56859.77
L18	277.99	N 88°40'23" E	N 66893.16 E 56577.67	N 66899.60 E 56855.58
L19	60.63	N 88°38'19" E	N 66829.62 E 56315.32	N 66831.06 E 56375.94
L20	100.83	N 89°22'19" E	N 66837.48 E 56432.61	N 66838.58 E 56533.43
L21	130.98	N 87°53'52" E	N 66835.34 E 56550.18	N 66840.15 E 56708.75
L22	12.92	N 88°40'23" E	N 66843.45 E 56695.83	N 66843.74 E 56708.75
L23	149.54	S 80°10'25" E	N 66843.46 E 56712.63	N 66817.94 E 56859.97

CURVE TABLE					
CURVE #	RADIUS	LENGTH	DELTA	PC	PT
C1	480.00	276.48	33°00'07"	N 67080.91 E 55603.98	N 67014.45 E 55868.42
C2	200.00	46.03	13°11'13"	N 67005.83 E 55883.00	N 66978.06 E 55919.59
C3	412.00	324.70	45°09'19"	N 66877.19 E 56024.79	N 66762.70 E 56319.71
C4	211.42	166.00	44°59'16"	N 66768.33 E 57221.45	N 66831.51 E 57370.37
C5	300.00	176.20	33°39'08"	N 65880.99 E 56183.80	N 66045.51 E 56128.14
C6	550.00	428.64	44°39'10"	N 66221.81 E 56002.31	N 66628.65 E 55906.96
C7	200.00	109.74	31°26'19"	N 66716.99 E 55921.17	N 66815.32 E 55966.72
C8	200.00	92.64	26°32'23"	N 66961.07 E 56091.53	N 67042.65 E 56133.65
C9	750.00	203.30	15°31'53"	N 67042.65 E 56133.65	N 67244.12 E 56155.78
C10	500.00	120.55	13°48'50"	N 65673.03 E 56176.10	N 65792.82 E 56186.67
C11	155.00	28.55	10°33'16"	N 66831.06 E 56375.94	N 66834.36 E 56404.26
C12	145.00	28.57	11°17'16"	N 66834.36 E 56404.26	N 66837.48 E 56432.61
C13	20.00	8.34	23°53'54"	N 66838.58 E 56533.43	N 66836.95 E 56541.55
C14	20.00	8.86	25°22'21"	N 66836.95 E 56541.55	N 66835.34 E 56550.18
C15	20.00	7.47	21°23'55"	N 66840.15 E 56681.08	N 66841.79 E 56688.32
C16	20.00	7.74	22°10'26"	N 66841.79 E 56688.32	N 66843.45 E 56695.83
C17	20.00	3.89	11°09'12"	N 66843.74 E 56708.75	N 66843.46 E 56712.63



FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

GEOMETRICS CONTROL

JOB NO: 18121 DATE: JUN 21 SCALE: AS SHOWN DRAWN: SJV CHECKED: SCJ

110 W. Dole Avenue Flagstaff, AZ 86001 928.773.0354 928.774.8934 fax www.swi.com

SWI Shephard & Wesnitzer, Inc.

NO.	DESCRIPTION	DATE

Call at least two full working days before you begin excavation.

ARIZONA 811 Arizona Blue Stakes, Inc. Dial 811 or 1-800-546-1111 (888-5348)

DRAWING NO. GC05

SHT NO. 7 OF 62

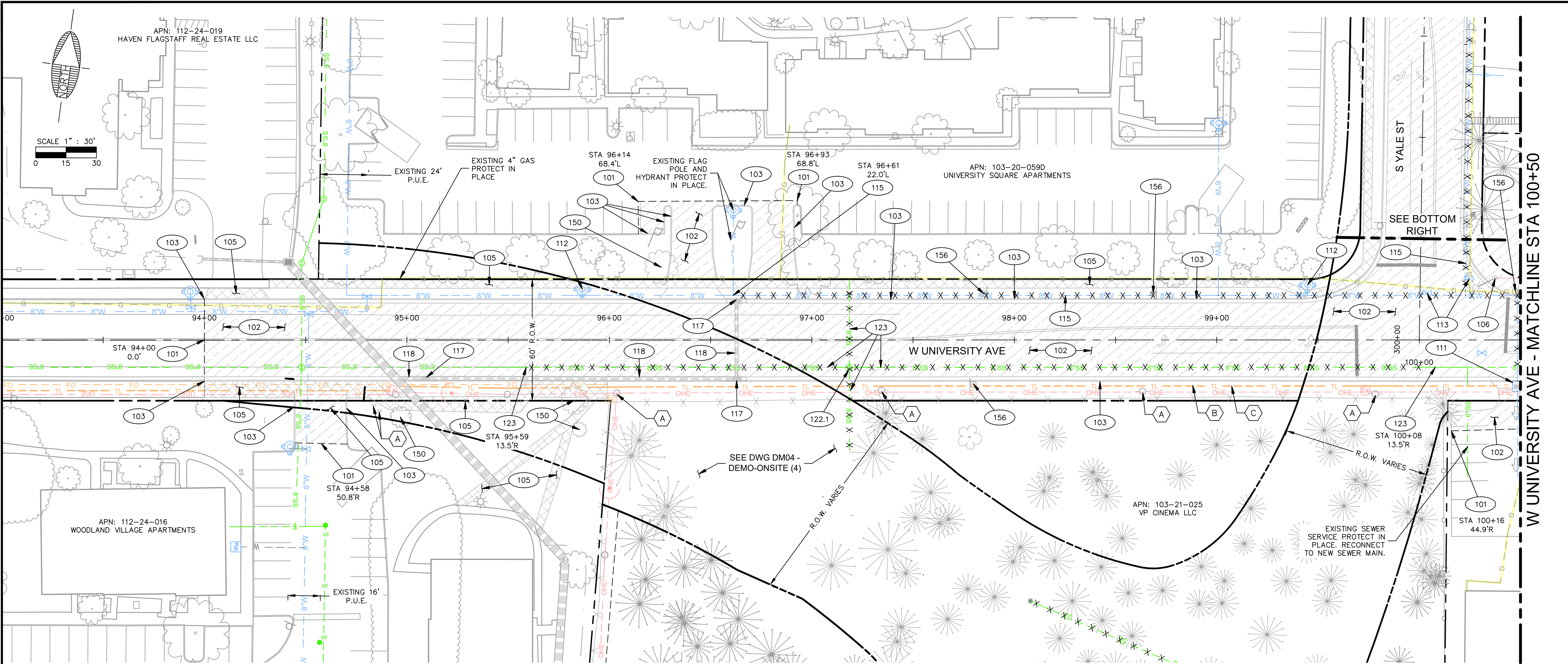
PLOTTED: Jun 28, 2021 - 4:31pm

SCALE 1" = 30'

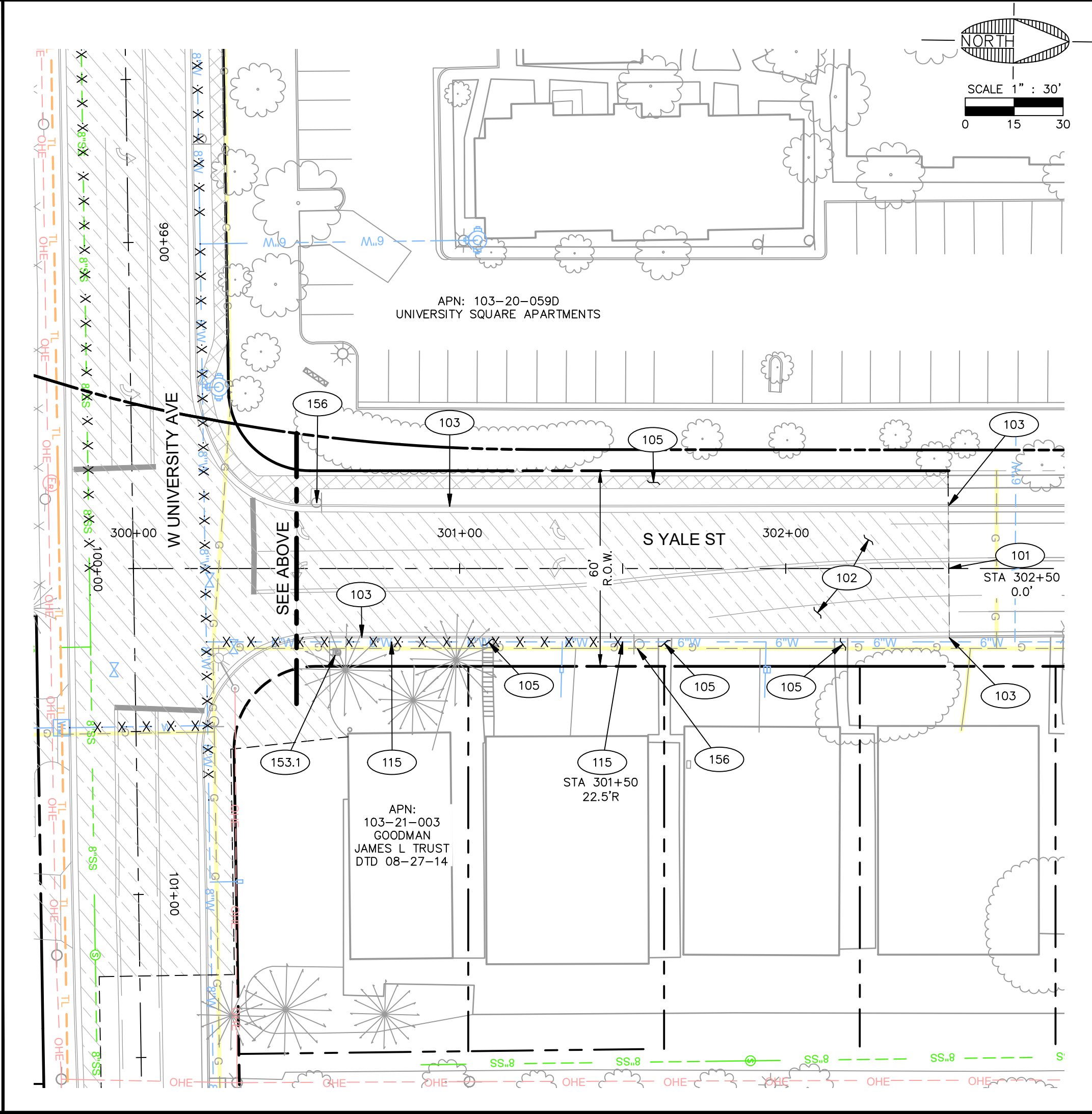
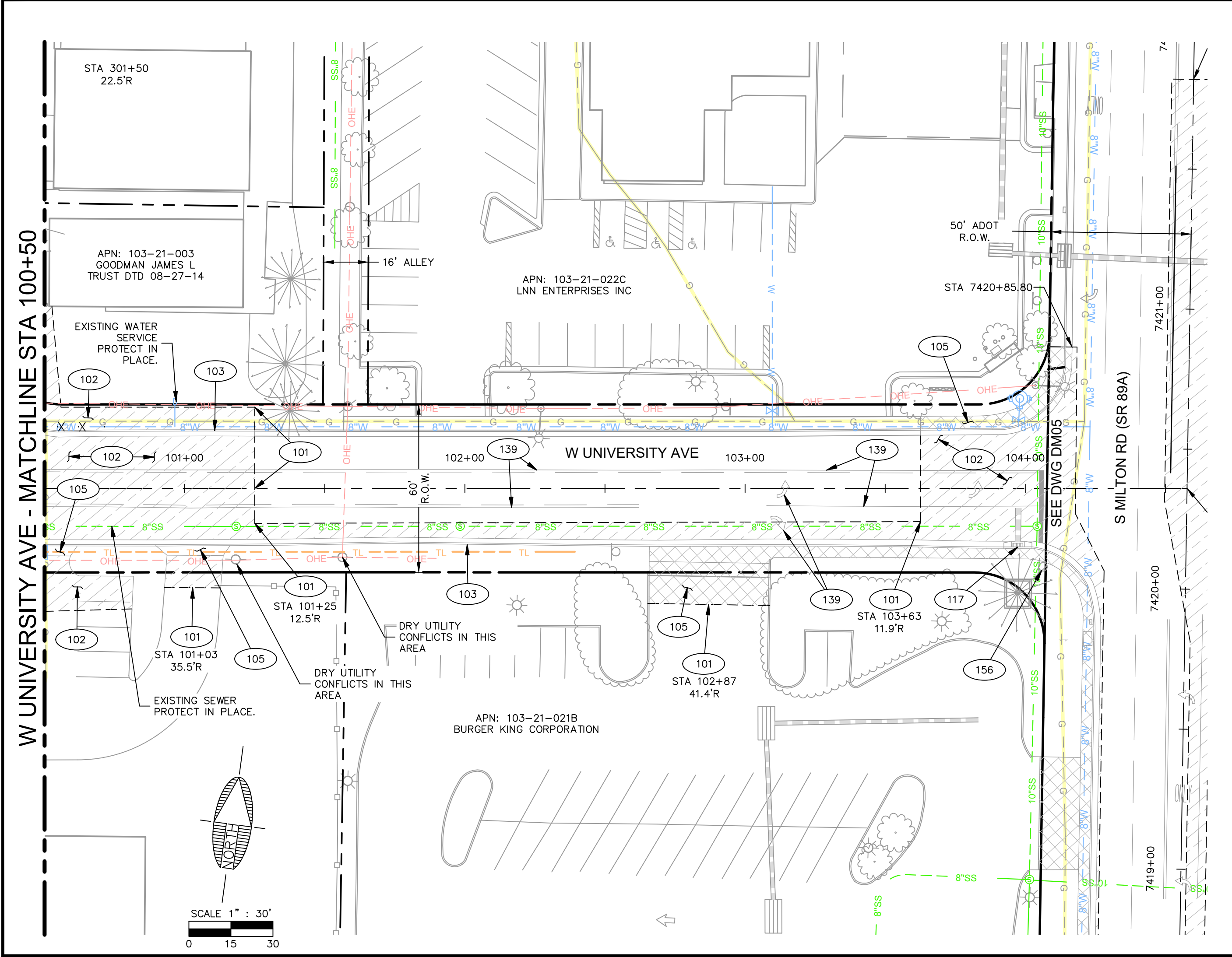
APN: 112-24-019 HAVEN FLAGSTAFF REAL ESTATE LLC

APN: 103-20-059D UNIVERSITY SQUARE APARTMENTS

APN: 103-21-025 VP CINEMA LLC



W UNIVERSITY AVE - MATCHLINE STA 100+50

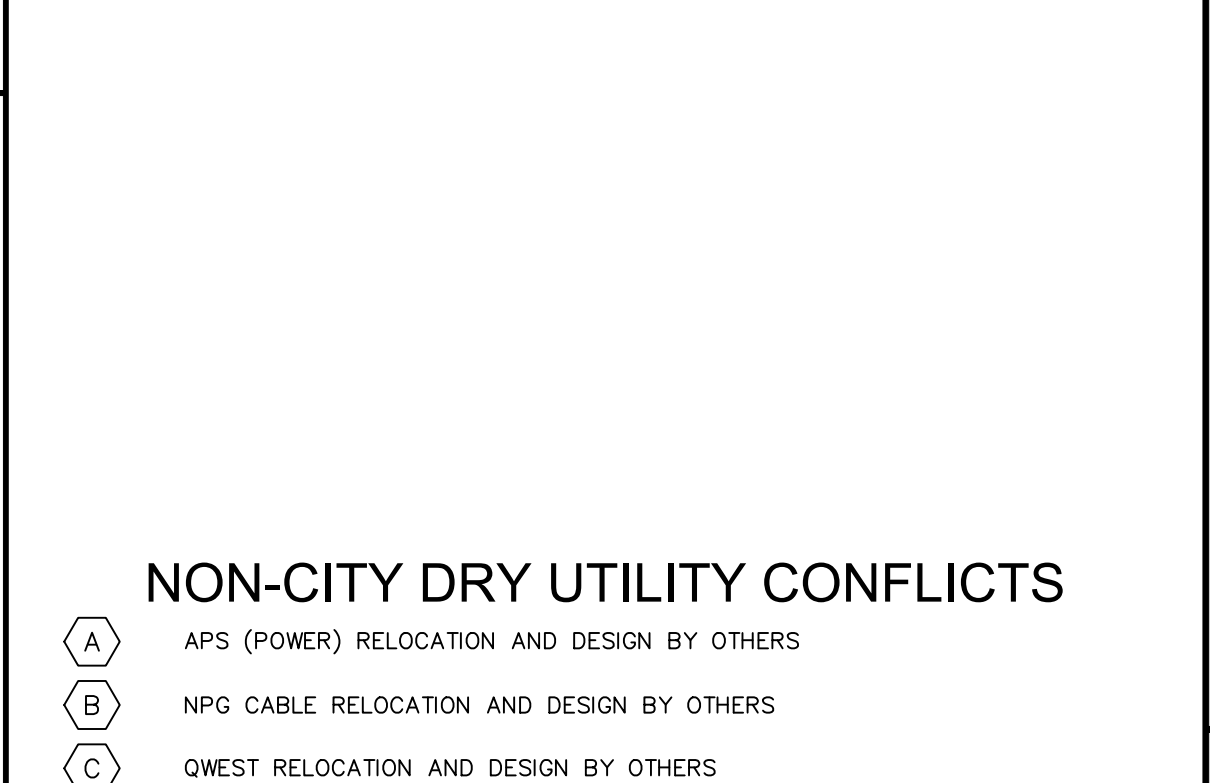


### CITY IMPROVEMENTS - DEMO

101	771 LF	SAWCUT EXISTING PAVEMENT PER MAG SPECS 336 AND 350.
102	43,564 SF	REMOVE EXISTING AC PAVEMENT PER MAG SPECS 336 AND 350.
103	2,424 LF	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB PER MAG SPECS 336 AND 350. CURB AND GUTTER SHALL BE REMOVED TO NEAREST JOINT.
105	6,905 SF	SAWCUT AND REMOVE EXISTING CONCRETE PER M.A.G. SPECS 336 AND 350.
106	1 EA	REMOVE AND DISPOSE OF EXISTING LIGHT POLE PER MAG SPECS 336 AND 350. SALVAGE EXISTING MAST ARM AND LUMINAIRE TO THE COF SALVAGE LOCATION, THE CITIZENS CEMETERY 1300 S SAN FRANCISCO STREET. CALL 928-213-2168 WITH 24-HOURS NOTICE PRIOR TO DELIVERY.
111	1 EA	REMOVE AND DISPOSE OF EXISTING WATER METER PER CITY OF FLAGSTAFF ENGINEERING STANDARDS 13-09-03-007(G). CONTRACTOR TO COORDINATE WITH CITY WATER SERVICES ON WHERE TO DISPOSE OF METER. CONTRACTOR TO REMOVE EXISTING WATER METER PRIOR TO BUILDING DEMOLITION.
112	2 EA	REMOVE EXISTING FIRE HYDRANT ASSEMBLY, VALVE, AND SERVICE LINE TO WATER MAIN PER MAG SPECS 336 AND 350. CONTRACTOR TO SALVAGE EXISTING FIRE HYDRANT AND COORDINATE WITH CITY WATER SERVICES DEPARTMENT ON STORAGE LOCATION.
113	3 EA	REMOVE AND DISPOSE OF EXISTING VALVE, BOX AND COVER PER MAG SPECS 336 AND 350.
115	580 LF	REMOVE EXISTING WATER LINE PER CITY OF FLAGSTAFF ENGINEERING STANDARDS 13-09-03-007(G) AND MAG SPECS 336 AND 350.
117	4 EA	REMOVE AND DISPOSE OF EXISTING STORM CATCH BASIN PER M.A.G. SPECS 336 AND 350.
118	196 LF	REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE PER M.A.G. SPECS 336 AND 350.
119	1 EA	REMOVE AND DISPOSE OF EXISTING STORM DRAIN MANHOLE PER M.A.G. SPECS 336 AND 350.
122.1	1 EA	REMOVE AND DISPOSE OF EXISTING SEWER MANHOLE PER M.A.G. SPECS 336 & 350.
123	539 LF	REMOVE AND DISPOSE OF EXISTING SEWER MAIN PER M.A.G. SPECS 336 & 350.
139	950 LF	OBLITERATE EXISTING STRIPING. CONTRACTOR TO USE HYDRO-JET METHOD OR APPROVED EQUAL.
140	2 EA	OBLITERATE EXISTING PAVEMENT MARKINGS. CONTRACTOR TO USE HYDRO-JET METHOD OR APPROVED EQUAL.
150	2 EA	REMOVE AND DISPOSE OF EXISTING TREE AND ROOTBALL PER M.A.G. SPECS 336 & 350. CONTRACTOR TO REMOVE TREES FROM SITE THE SAME DAY THEY ARE DOWNED.
153.1	1 EA	REMOVE AND SALVAGE EXISTING MAILBOX PER MAG SPECS 336 AND 350. REFER TO IMPROVEMENT PLANS FOR REINSTALLATION.
156	8 EA	REMOVE AND SALVAGE SIGN.

### NON-CITY DRY UTILITY CONFLICTS

A	APS (POWER) RELOCATION AND DESIGN BY OTHERS
B	NPG CABLE RELOCATION AND DESIGN BY OTHERS
C	QWEST RELOCATION AND DESIGN BY OTHERS
D	UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS



**60% PRELIMINARY**

NOT FOR CONSTRUCTION, BIDDING OR RECORDING

C.O.F. Project #PZ XX-XXXX

NO.	DESCRIPTION	DATE	BY

DRAWING NO. **DM01**

SHT NO. 8 OF 62

**SWI**  
Shephard Wesnitzer, Inc.

110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.773.0354  
928.774.8934 fax  
www.swi.com

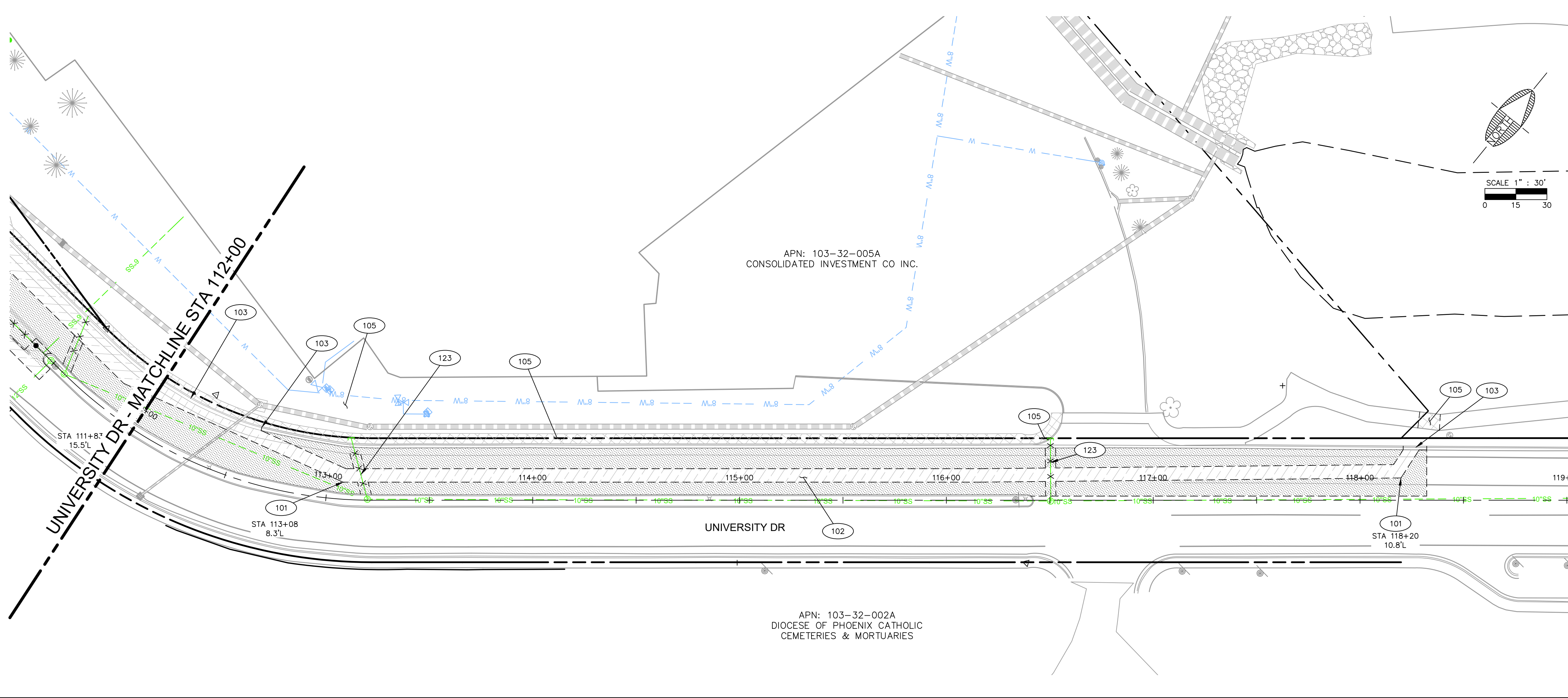
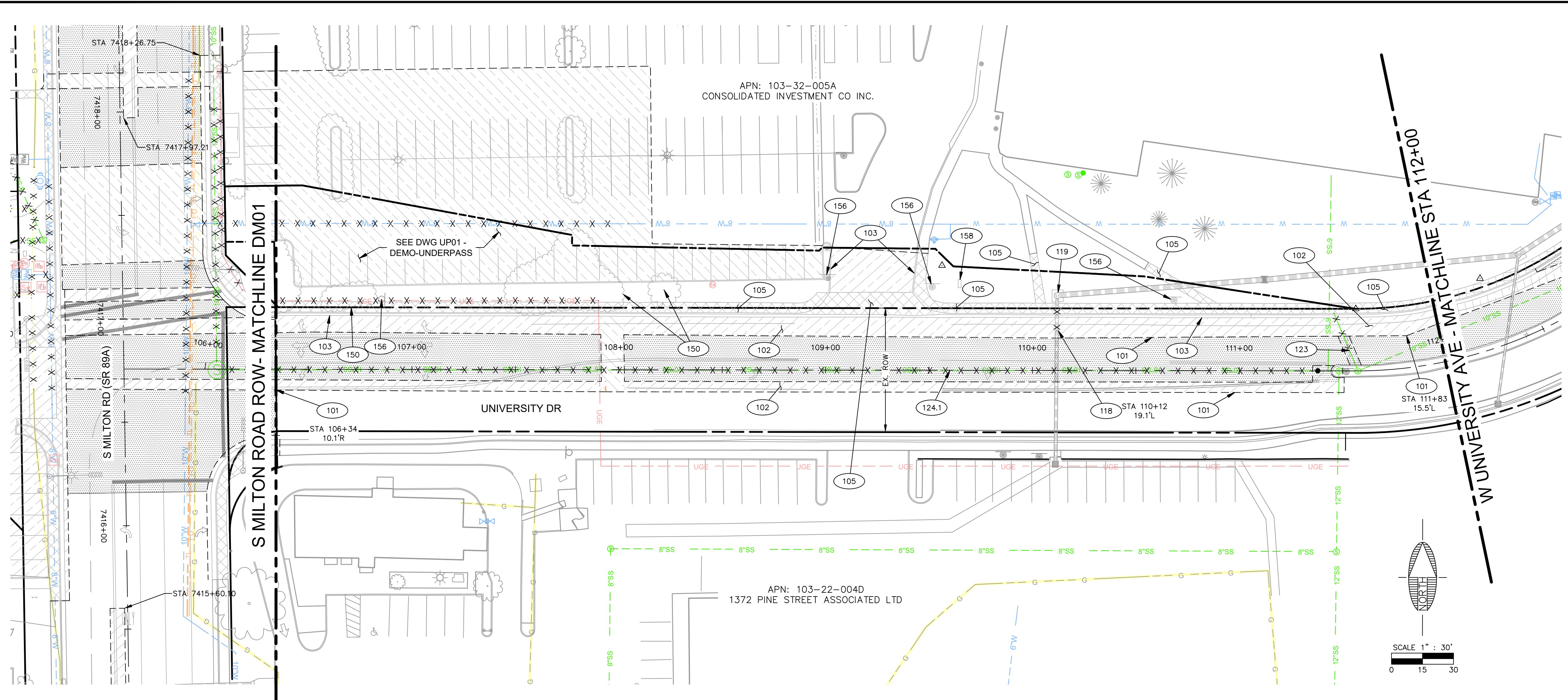
JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SLV  
DESIGN: SLV  
CHECKED: SCJ

BEULAH & UNIVERSITY IMPROVEMENT PLANS  
DEMOS-UNIVERSITY-YALE (1)

FLAGSTAFF ARIZONA

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**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-5348)  
888-84-1111 or 1-800-514-1111



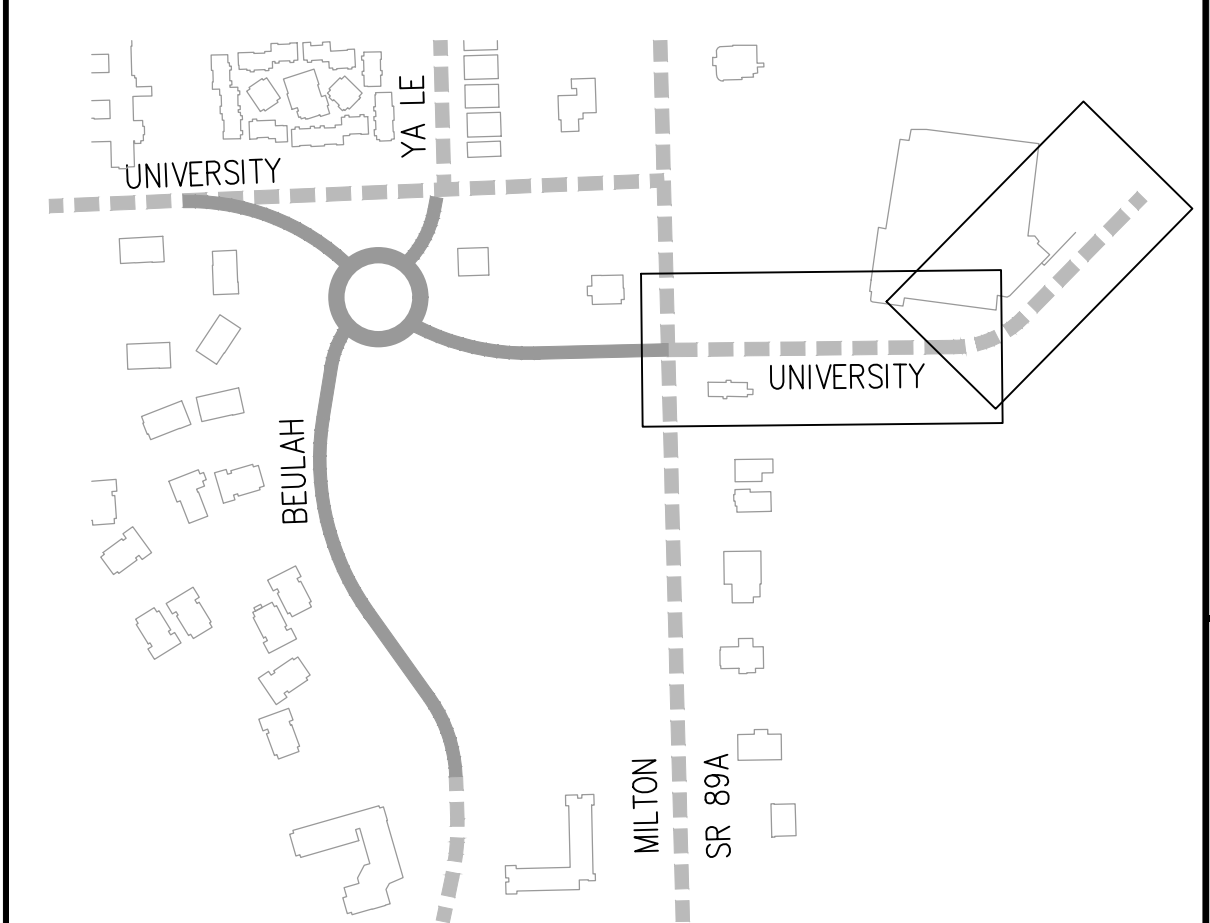


**CITY IMPROVEMENTS - DEMO**

101	2,434 LF	SAWCUT EXISTING PAVEMENT PER MAG SPECS 336 AND 350.
102	9,955 SF	REMOVE EXISTING AC PAVEMENT PER MAG SPECS 336 AND 350.
103	581 LF	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB PER MAG SPECS 336 AND 350. CURB AND GUTTER SHALL BE REMOVED TO NEAREST JOINT.
105	5,721 SF	SAWCUT AND REMOVE EXISTING CONCRETE PER M.A.G. SPECS 336 AND 350.
118	15 LF	REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE PER M.A.G. SPECS 336 AND 350.
123	78 LF	REMOVE AND DISPOSE OF EXISTING SEWER MAIN PER M.A.G. SPECS. 336 & 350.
124.1	504 LF	ABANDON EXISTING SEWER IN PLACE.
150	3 EA	REMOVE AND DISPOSE OF EXISTING TREE AND ROOTBALL PER M.A.G. SPECS. 336 & 350. CONTRACTOR TO REMOVE TREES FROM SITE THE SAME DAY THEY ARE DOWNED.
156	3 EA	REMOVE AND SALVAGE SIGN.
158	1 EA	REMOVE AND RELOCATE MONUMENT SIGN TO LOCATION SHOWN ON PLAN.

**NON-CITY DRY UTILITY CONFLICTS**

A	APS (POWER) RELOCATION AND DESIGN BY OTHERS
B	NPG CABLE RELOCATION AND DESIGN BY OTHERS
C	QWEST RELOCATION AND DESIGN BY OTHERS
D	UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

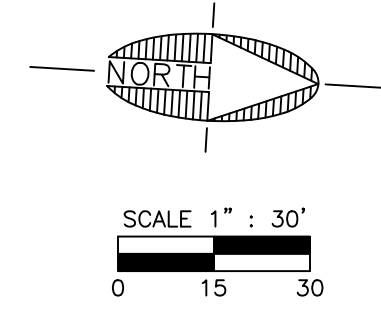
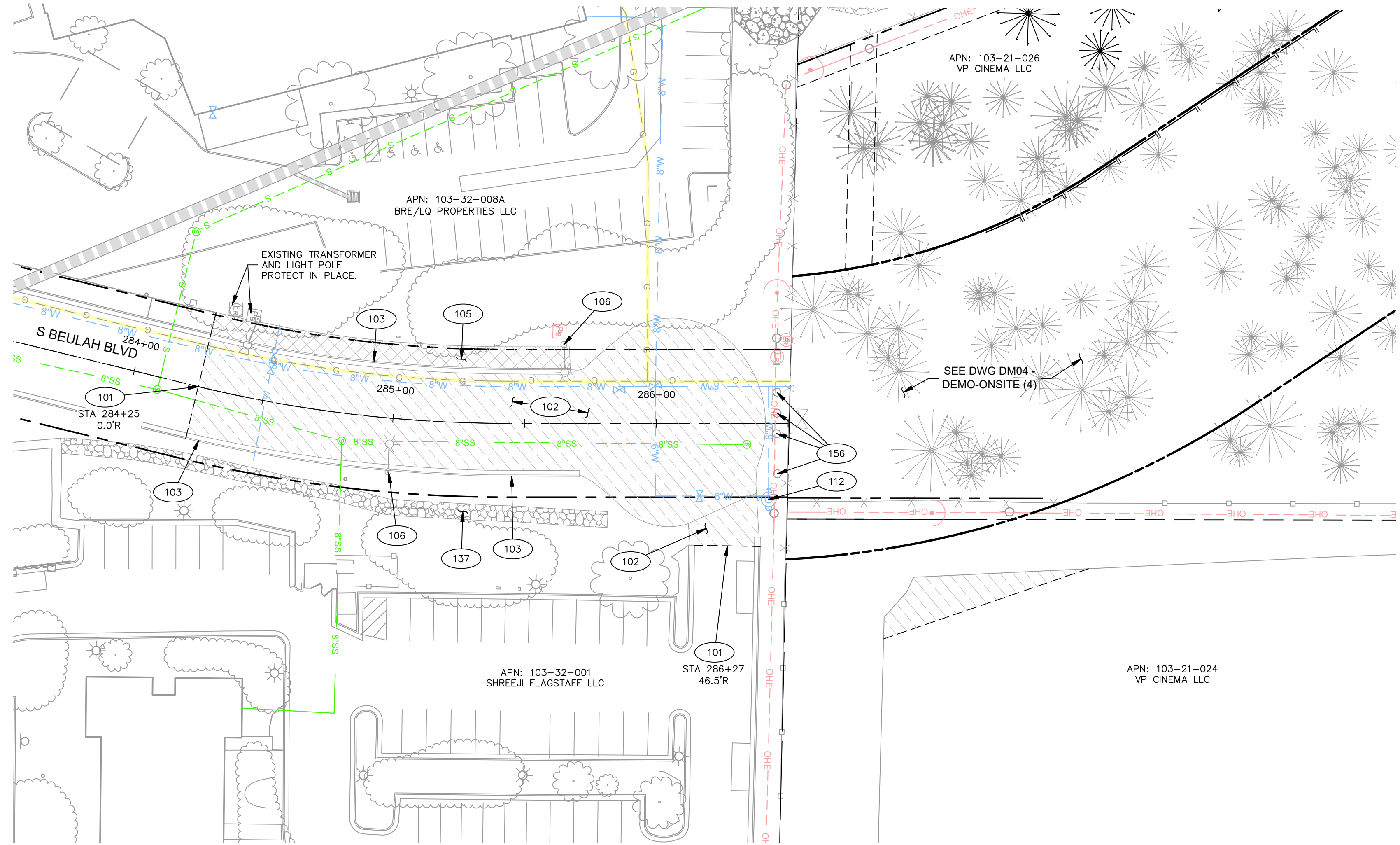


**60% PRELIMINARY**  
 NOT FOR CONSTRUCTION,  
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JOB NO:	18121	DATE:	JUN 21	SCALE:	AS SHOWN	DRAWN:	SLV	DESIGN:	SLV	CHECKED:	SCI	
110 W. Dole Avenue Flagstaff, AZ 86001 928.774.8354 928.774.8934 fax www.swi.az.com												
<b>SWI</b> Shephard Wesnitzer, Inc.												
REVISIONS	NO.	DESCRIPTION	DATE	BY								
					SHT NO.	9	OF	62				
					C.O.F. Project #	PZ XX-XXXX						

PLOTTED: Jun 28, 2021 - 4:31pm

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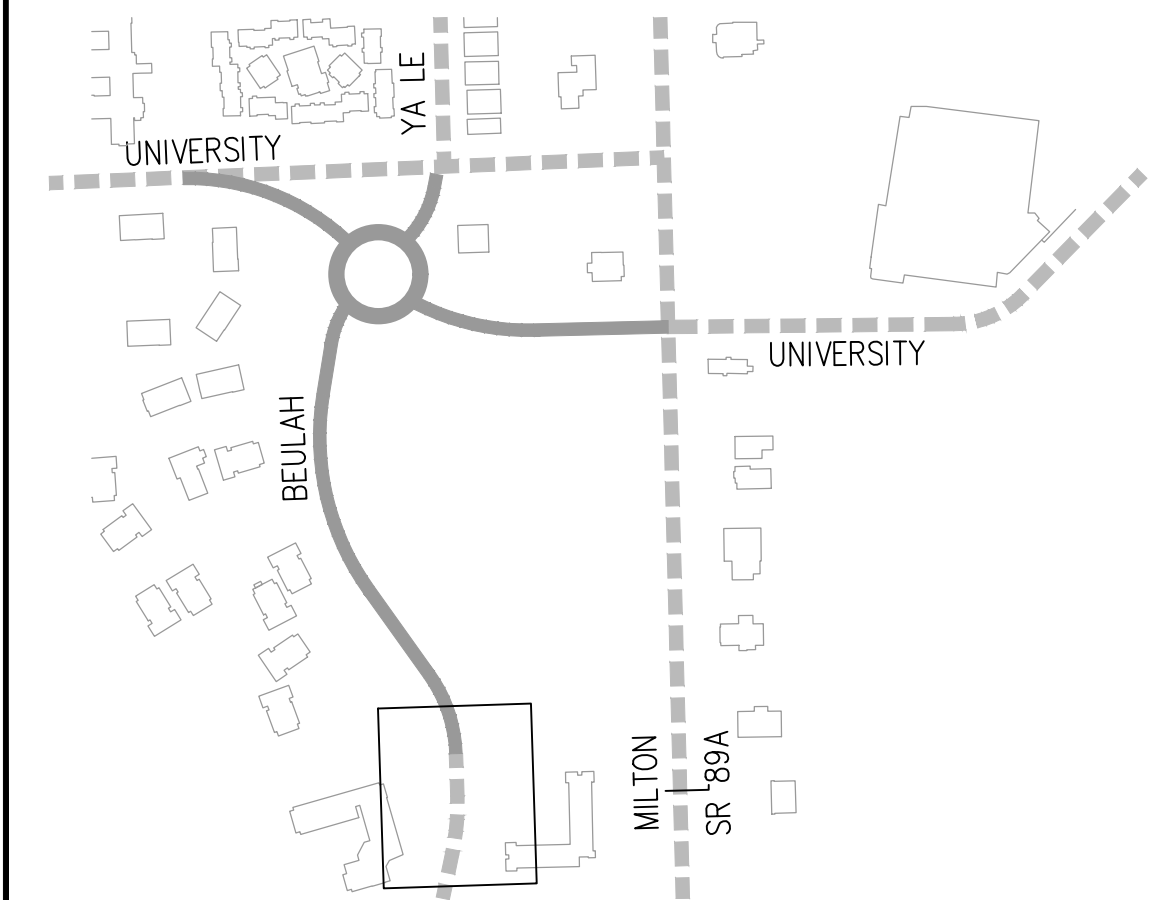


**CITY IMPROVEMENTS - DEMO**

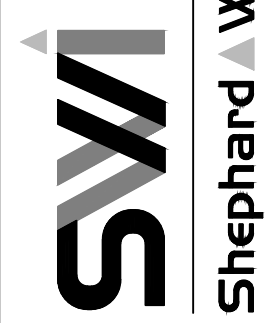

101	74 LF	SAWCUT EXISTING PAVEMENT PER MAG SPECS 336 AND 350.
102	10,186 SF	REMOVE EXISTING AC PAVEMENT PER MAG SPECS 336 AND 350.
103	291 LF	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB PER MAG SPECS 336 AND 350. CURB AND GUTTER SHALL BE REMOVED TO NEAREST JOINT.
105	1,113 SF	SAWCUT AND REMOVE EXISTING CONCRETE PER M.A.G. SPECS 336 AND 350.
106	2 EA	REMOVE AND DISPOSE OF EXISTING LIGHT POLE PER MAG SPECS 336 AND 350. SALVAGE EXISTING MAST ARM AND LUMINAIRE TO THE COF SALVAGE LOCATION, THE CITIZENS CEMETERY 1300 S SAN FRANCISCO STREET. CALL 928-213-2168 WITH 24-HOURS NOTICE PRIOR TO DELIVERY.
112	1 EA	REMOVE EXISTING FIRE HYDRANT ASSEMBLY, VALVE, AND SERVICE LINE TO WATER MAIN PER MAG SPECS 336 AND 350. CONTRACTOR TO SALVAGE EXISTING FIRE HYDRANT AND COORDINATE WITH CITY WATER SERVICES DEPARTMENT ON STORAGE LOCATION.
137	504 SF	REMOVE AND SALVAGE EXISTING RIPRAP FOR REUSE ONSITE.
156	4 EA	REMOVE AND SALVAGE SIGN.

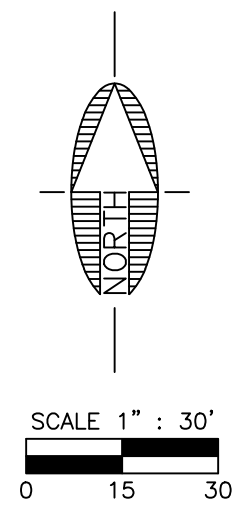
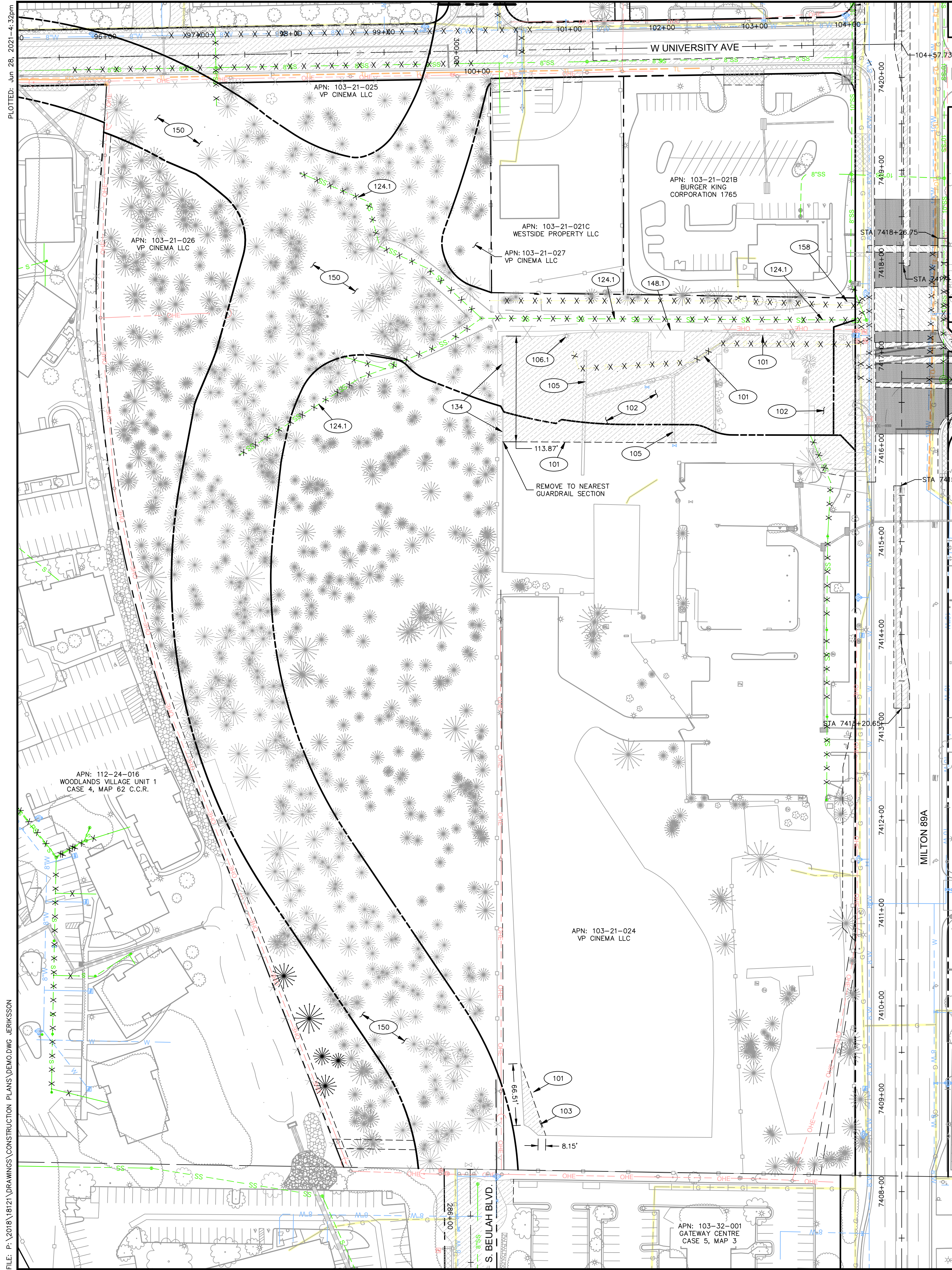
**NON-CITY DRY UTILITY CONFLICTS**

- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
- (B) NPC CABLE RELOCATION AND DESIGN BY OTHERS
- (C) QWEST RELOCATION AND DESIGN BY OTHERS
- (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS



**60%  
PRELIMINARY**  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

		110 W. Dole Avenue Flagstaff, AZ 86001 928.774.8934 928.774.8934 fax www.swiaz.com	
JOB NO: 18121		DATE: JUN 21	
SCALE: AS SHOWN		DRAWN: SJV	
DESIGN: SJV		CHECKED: SCI	
BEULAH & UNIVERSITY IMPROVEMENT PLANS			
DEMO-BEULAH (3)			
REVISIONS		BY	
NO.		DATE	
DESCRIPTION		DATE	
NO.		DATE	
DESCRIPTION		DATE	
Call at least two full working days before you begin excavation.			
			
Drawing No. <b>DM03</b>			
SHT NO. 10		OF 62	
C.O.F. Project #PZ XX-XXXX			



### CITY IMPROVEMENTS - DEMO

101	312 LF	SAWCUT EXISTING PAVEMENT PER MAG SPECS 336 AND 350.
102	32,759 SF	REMOVE EXISTING AC PAVEMENT PER MAG SPECS 336 AND 350.
103	790 LF	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB PER MAG SPECS 336 AND 350. CURB AND GUTTER SHALL BE REMOVED TO NEAREST JOINT.
105	1,148 SF	SAWCUT AND REMOVE EXISTING CONCRETE PER M.A.G. SPECS 336 AND 350.
106	1 EA	REMOVE AND DISPOSE OF EXISTING LIGHT POLE PER MAG SPECS 336 AND 350. SALVAGE EXISTING MAST ARM AND LUMINAIRE TO THE COF SALVAGE LOCATION, THE CITIZENS CEMETERY 1300 S SAN FRANCISCO STREET. CALL 928-213-2168 WITH 24-HOURS NOTICE PRIOR TO DELIVERY.
124.1	2 LF	ABANDON EXISTING SEWER IN PLACE.
134	114 LF	REMOVE EXISTING RAILING AND RETAINING WALL.
148.1	504 LF	REMOVE AND DISPOSE OF EXISTING FENCE PER MAG SPECS 336 AND 350.
150	531 EA	REMOVE AND DISPOSE OF EXISTING TREE AND ROOTBALL PER M.A.G. SPECS. 336 & 350. CONTRACTOR TO REMOVE TREES FROM SITE THE SAME DAY THEY ARE DOWNED.
158	1 EA	REMOVE AND RELOCATE MONUMENT SIGN TO LOCATION SHOWN ON PLAN.

### NON-CITY DRY UTILITY CONFLICTS

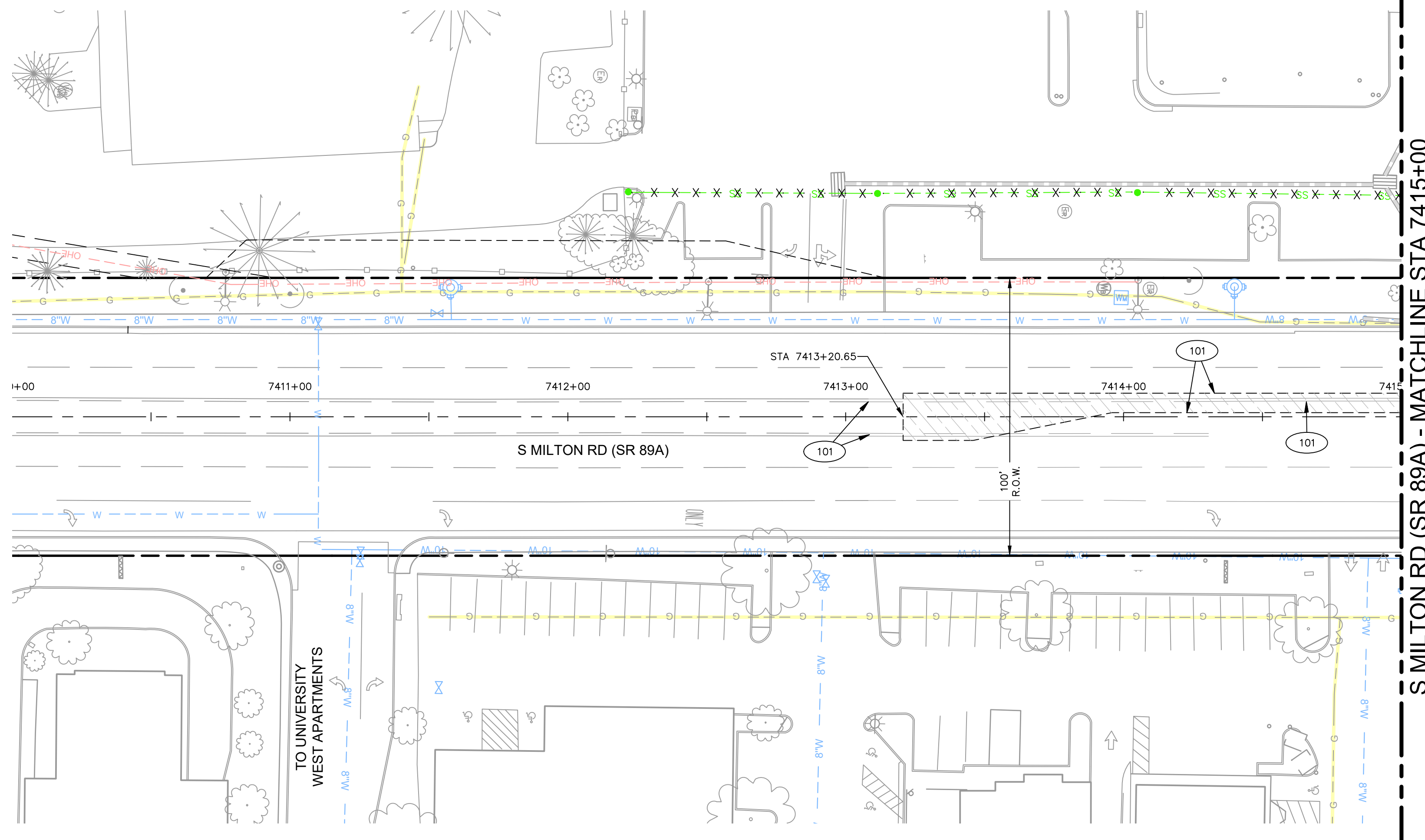
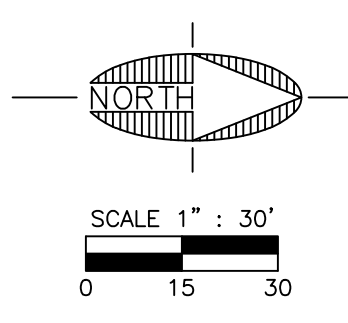
A	APS (POWER) RELOCATION AND DESIGN BY OTHERS
B	NPG CABLE RELOCATION AND DESIGN BY OTHERS
C	QWEST RELOCATION AND DESIGN BY OTHERS
D	UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS



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		<b>DEMO-ONSITE (4)</b>	
110 W. Dole Avenue Flagstaff, AZ 86001 928.774.8934 928.774.8934 fax www.swi.az.com		JOB NO: 18121 DATE: JUN 21 SCALE: AS SHOWN DRAWN: SJV DESIGN: SJV CHECKED: SCL	
<b>BEULAH &amp; UNIVERSITY IMPROVEMENT PLANS</b>		<b>FLAGSTAFF ARIZONA</b>	
NO.	DESCRIPTION	DATE	BY
Call at least two full working days before you begin excavation. 		DRAWING NO. <b>DM04</b>	
C.O.F. Project #PZ XX-XXXX		SHT NO. 11	OF 62

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 PLOTTED: Jun 28, 2021 - 4:32pm



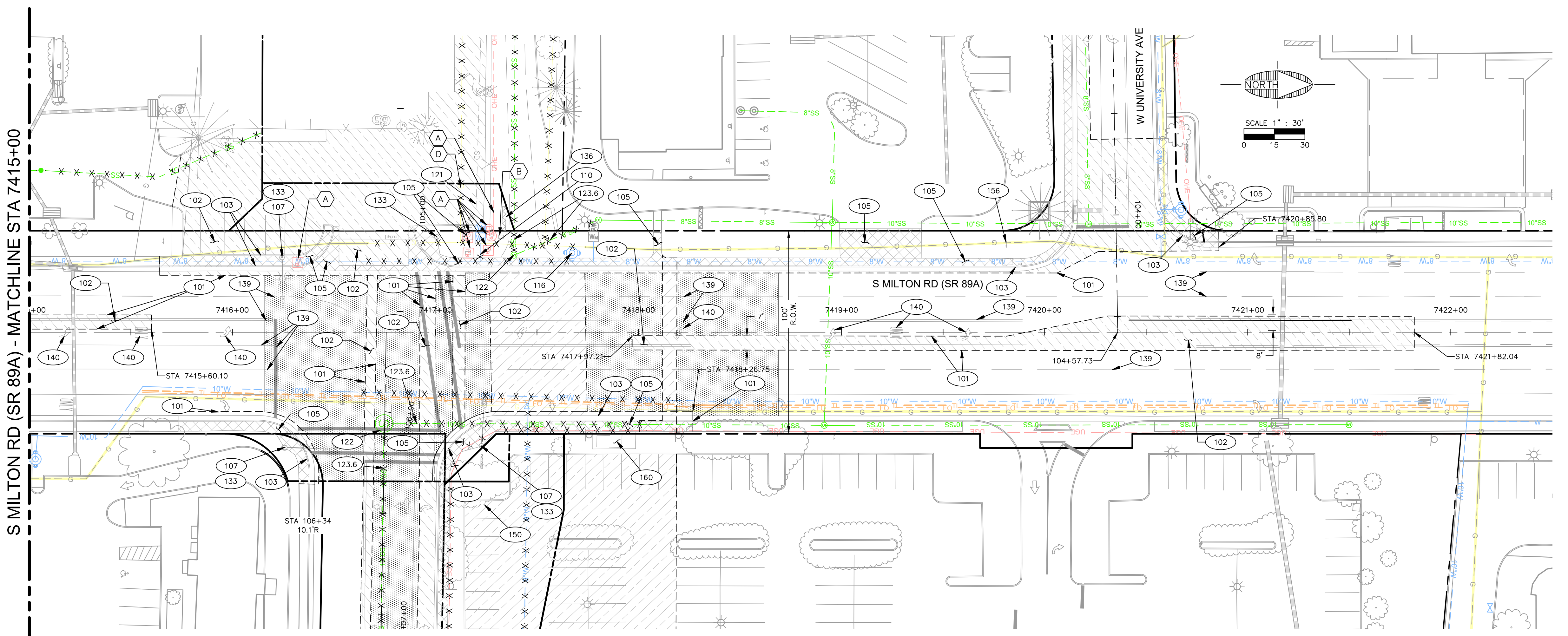
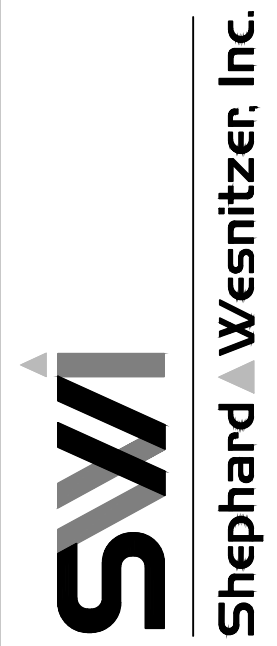
S MILTON RD (SR 89A) - MATCHLINE STA 7415+00

**ADOT IMPROVEMENTS - DEMO**

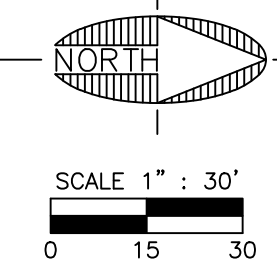
- 101 2,550 LF SAWCUT EXISTING PAVEMENT PER MAG SPECS 336 AND 350.
- 102 13,552 SF REMOVE EXISTING AC PAVEMENT PER MAG SPECS 336 AND 350.
- 103 807 LF REMOVE AND DISPOSE OF EXISTING CONCRETE CURB PER MAG SPECS 336 AND 350. CURB AND GUTTER SHALL BE REMOVED TO NEAREST JOINT.
- 105 3,759 SF SAWCUT AND REMOVE EXISTING CONCRETE PER M.A.G. SPECS 336 AND 350.
- 110 1 EA REMOVE EXISTING WATER SERVICE LINE AND REMOVE AND SALVAGE EXISTING WATER METER(S) PER ADOT SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH CITY WATER SERVICES DEPARTMENT ON WHERE TO STORE SALVAGED METER.
- 122 2 EA REMOVE AND DISPOSE OF EXISTING SEWER MANHOLE PER ADOT SPECIFICATIONS.
- 123.6 203 LF REMOVE AND DISPOSE OF EXISTING SEWER MAIN PER ADOT SPECIFICATIONS.
- 133 4 EA REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL PER ADOT SPECIFICATIONS. COORDINATE WITH CITY AND ADOT ON REUSE.
- 136 1 EA REMOVE AND DISPOSE OF EXISTING MONUMENT SIGN.
- 139 5,014 LF OBLITERATE EXISTING STRIPING. CONTRACTOR TO USE HYDRO-JET METHOD OR APPROVED EQUAL.
- 140 7 EA OBLITERATE EXISTING PAVEMENT MARKINGS. CONTRACTOR TO USE HYDRO-JET METHOD OR APPROVED EQUAL.
- 150 1 EA REMOVE AND DISPOSE OF EXISTING TREE AND ROOTBALL PER M.A.G. SPECS 336 & 350. CONTRACTOR TO REMOVE TREES FROM SITE THE SAME DAY THEY ARE DOWNED.
- 156 1 EA REMOVE AND SALVAGE SIGN.
- 160 1 EA REMOVE AND SALVAGE EXISTING BUS STOP. RELOCATE PER PAVEMENT PLANS.

JOB NO:	18121
DATE:	JUN 21
SCALE:	AS SHOWN
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DESIGN:	SLV
CHECKED:	SCI

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Flagstaff, AZ 86001  
928.774.8354  
928.774.8934 fax  
www.swi.az.com

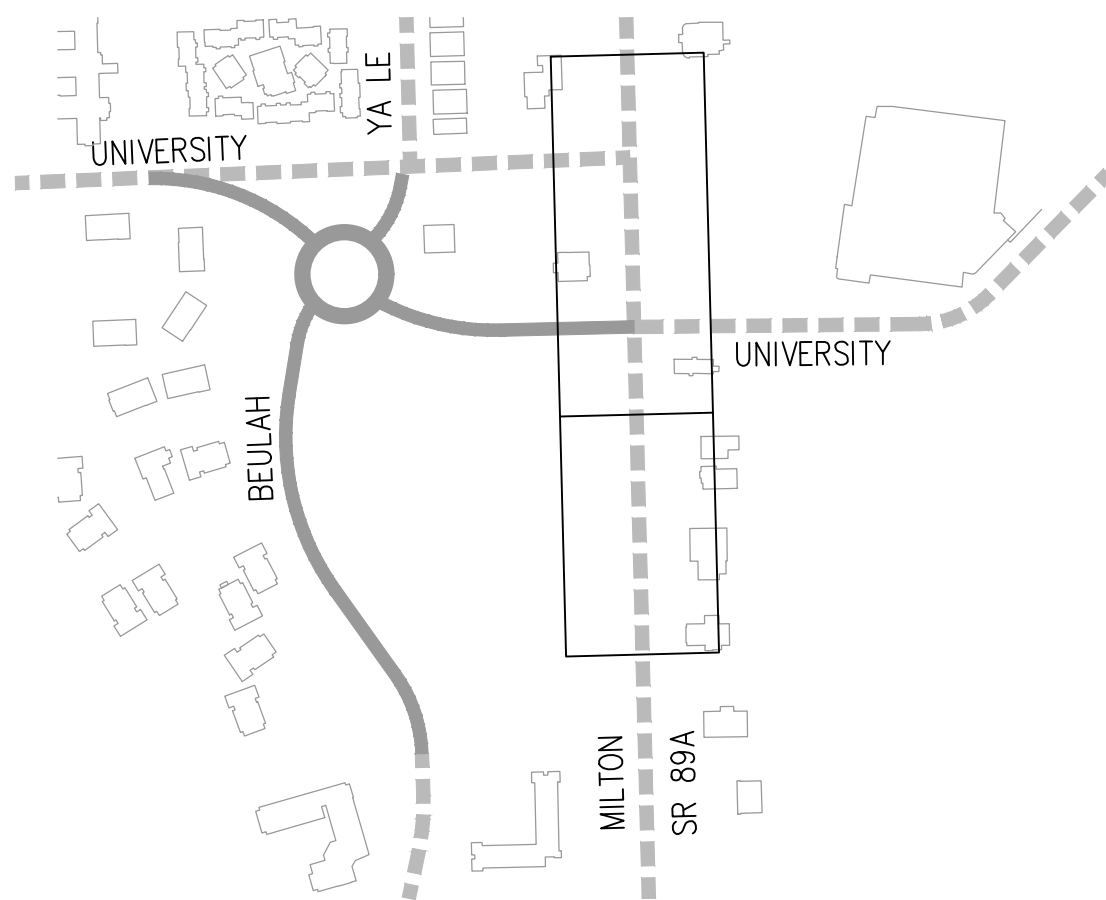


S MILTON RD (SR 89A) - MATCHLINE STA 7415+00



**NON-CITY DRY UTILITY CONFLICTS**

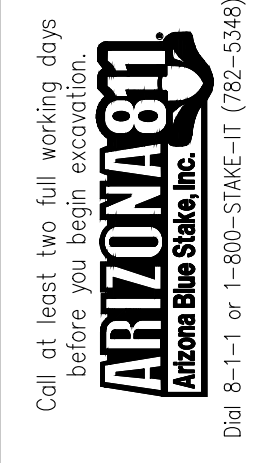
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- (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
- (C) QWEST RELOCATION AND DESIGN BY OTHERS
- (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS



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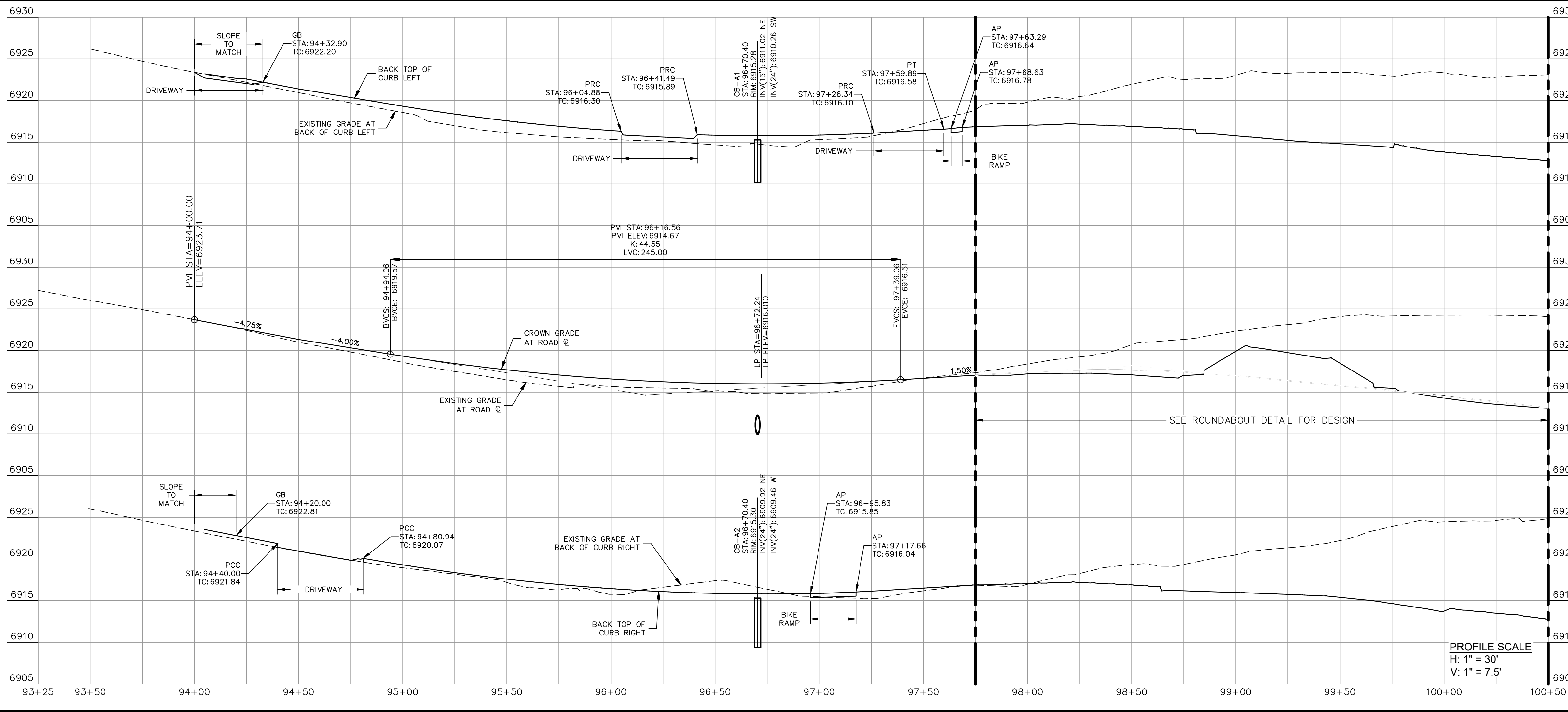
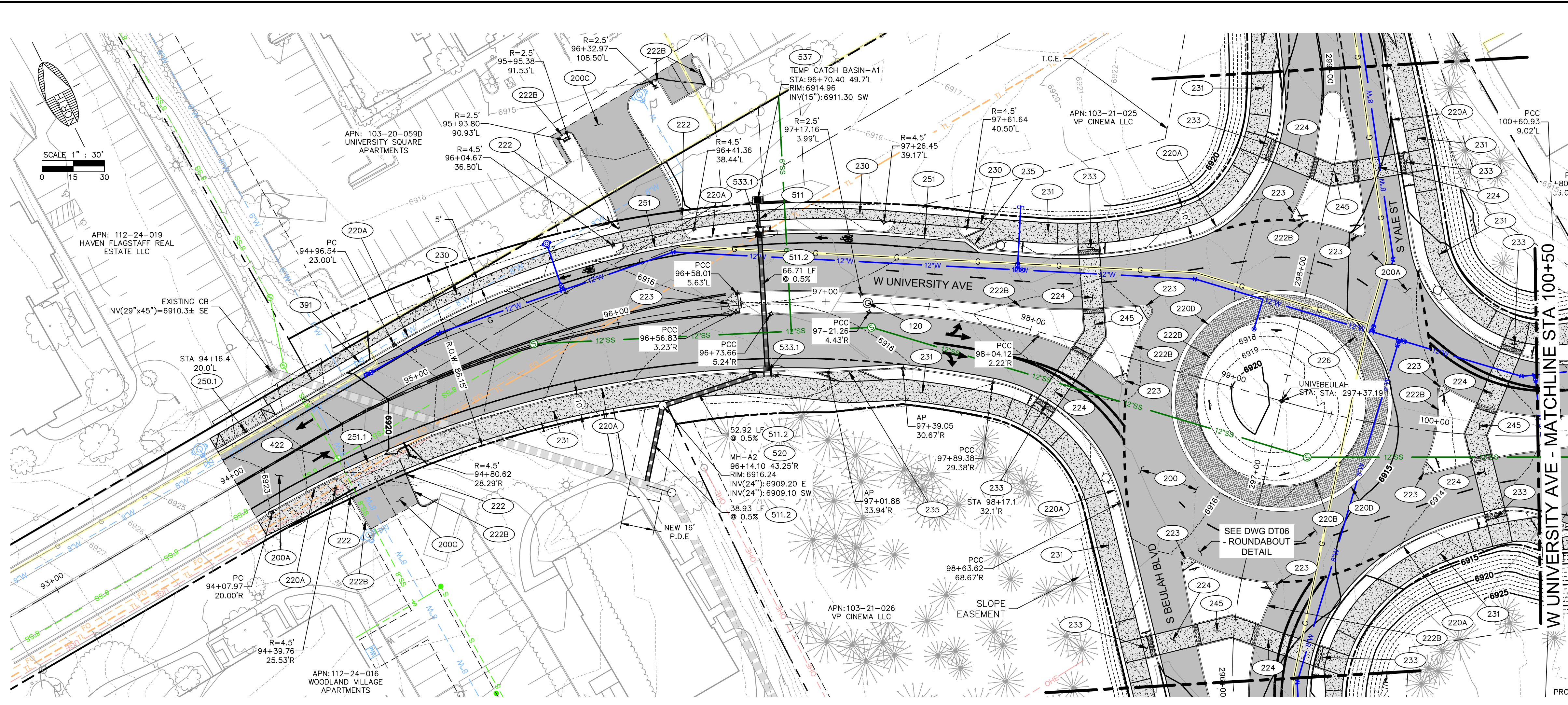
NO.	DESCRIPTION	DATE	BY



DRAWING NO. **DM05**

PLOTTED: Jun 28, 2021 - 4:33pm

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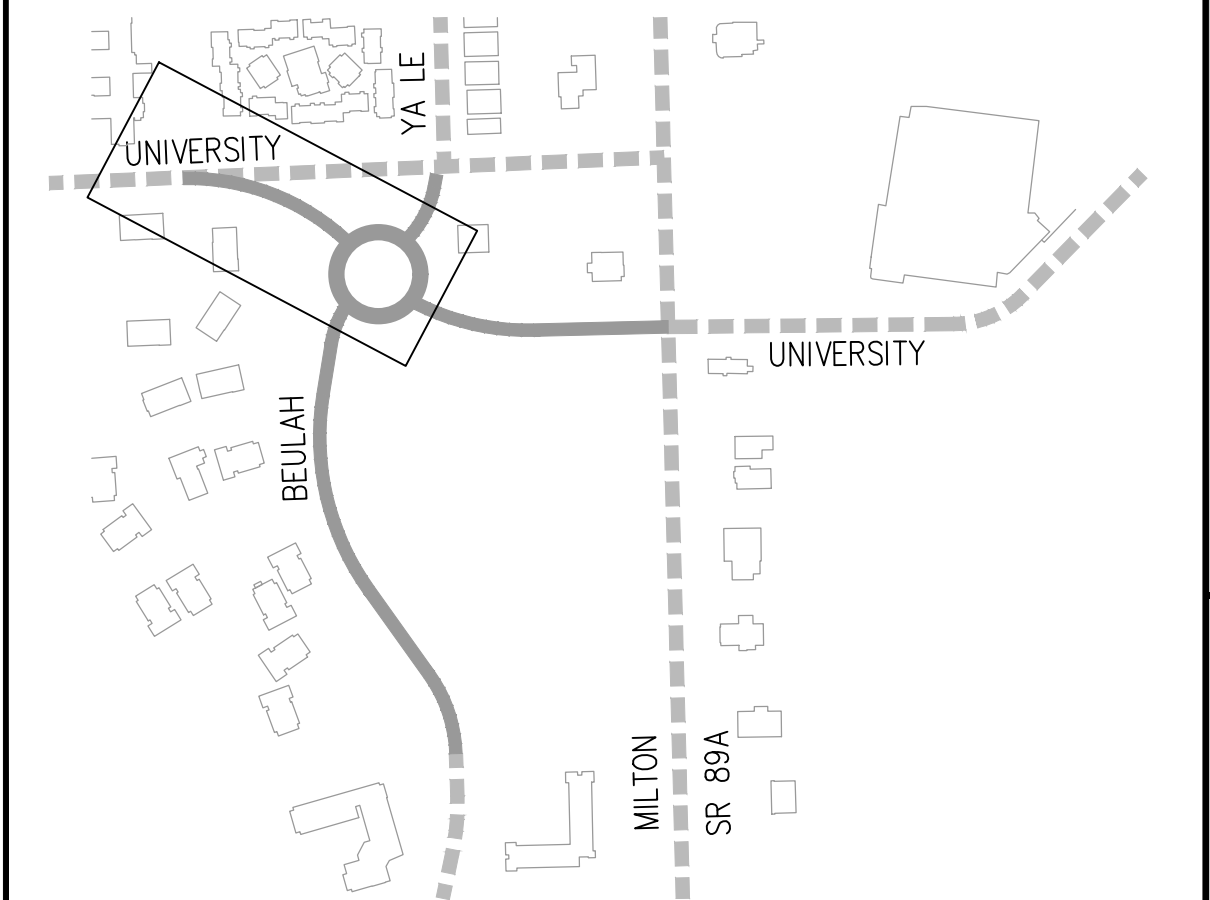


**CITY IMPROVEMENTS - PAVING & STORM**

120	1 EA	INSTALL SURVEY MARKER PER C.O.F. STD. DTL. 3-02-070.
200A	4,494 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
200C	295 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '3' ON DWG DT03 OR MATCH EXISTING STRUCTURAL SECTION, WHICHEVER IS GREATER.
220A	1,320 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
220D	320 LF	CONSTRUCT ROLL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'D' AND DETAIL 'X' ON DWG DT03.
222B	129 LF	CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222 TYPE 'B' AND DETAIL 'X' ON DWG DT03.
223	10 EA	CONSTRUCT MEDIAN NOSE TRANSITION PER M.A.G. STD. DTL. 223.
224	1,903 SF	INSTALL ALTERNATE PAVEMENT SECTION 9" CONCRETE ON 3" ABC SEE DETAIL 'X' ON DWG 'X'.
226	2,890 SF	INSTALL STAMPED CONCRETE
230	1,448 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 'S' TYPICAL).
231	9,670 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN '8' OR 10' TYPICAL).
233	8 EA	CONSTRUCT ROUNDABOUT F.U.T.S. RAMP PER DETAIL 'X' ON DWG DT03.
235	2 EA	CONSTRUCT BIKE RAMP PER DETAIL '1' ON DWG DT03.
245	828 SF	CONSTRUCT DEPRESSED CONCRETE PEDESTRIAN ISLAND REFUGE.
250.1	1 EA	CONSTRUCT DRIVEWAY WITH DETACHED SIDEWALK PER M.A.G. STD. DTL. 250-1.
251	338 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041 AND M.A.G. STD. DTL. 251.
251.1	313 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041.
391	1 EA	ADJUST EXISTING WATER VALVE BOX AND COVER TO FINISH GRADE PER C.O.F. STD. DTL. 9-03-062 ON DWG DT01.
422	1 EA	ADJUST MANHOLE FRAME AND COVER PER M.A.G. STD. DTL. 422 AND PER C.O.F. STD. DTL. 9-03-062.
511	11 LF	INSTALL 15" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
511.2	159 LF	INSTALL 24" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
520	1 EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
533.1	2 EA	CONSTRUCT TYPE "D" CATCH BASIN PER M.A.G. STD. DETAIL 533-1, DUAL 3" WINGS

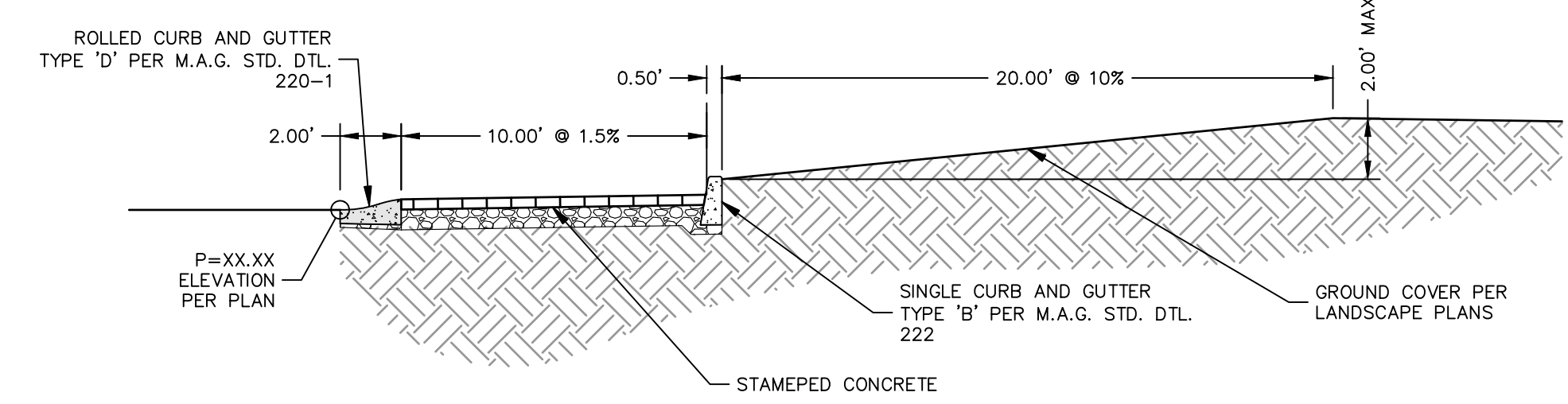
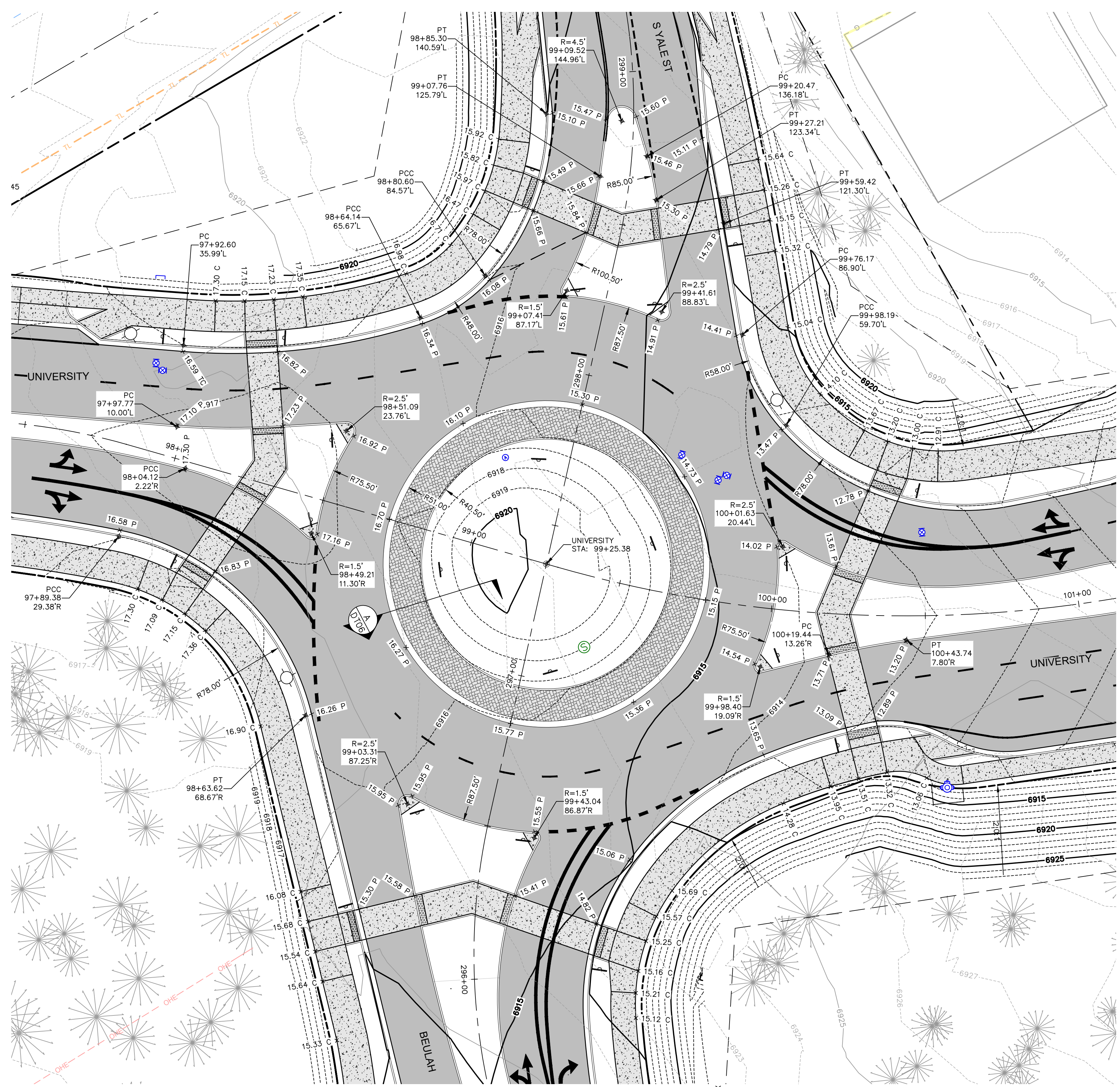
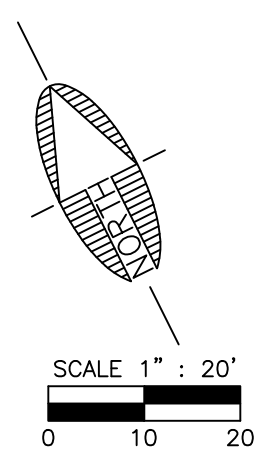
**GENERAL SHEET NOTES**

- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
- VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
- ALL SIDEWALK AND F.U.T.S. TRAILS SHOWN ON THIS PLAN TO HAVE A 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
- ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



**60% PRELIMINARY**  
NOT FOR CONSTRUCTION, BIDDING OR RECORDING

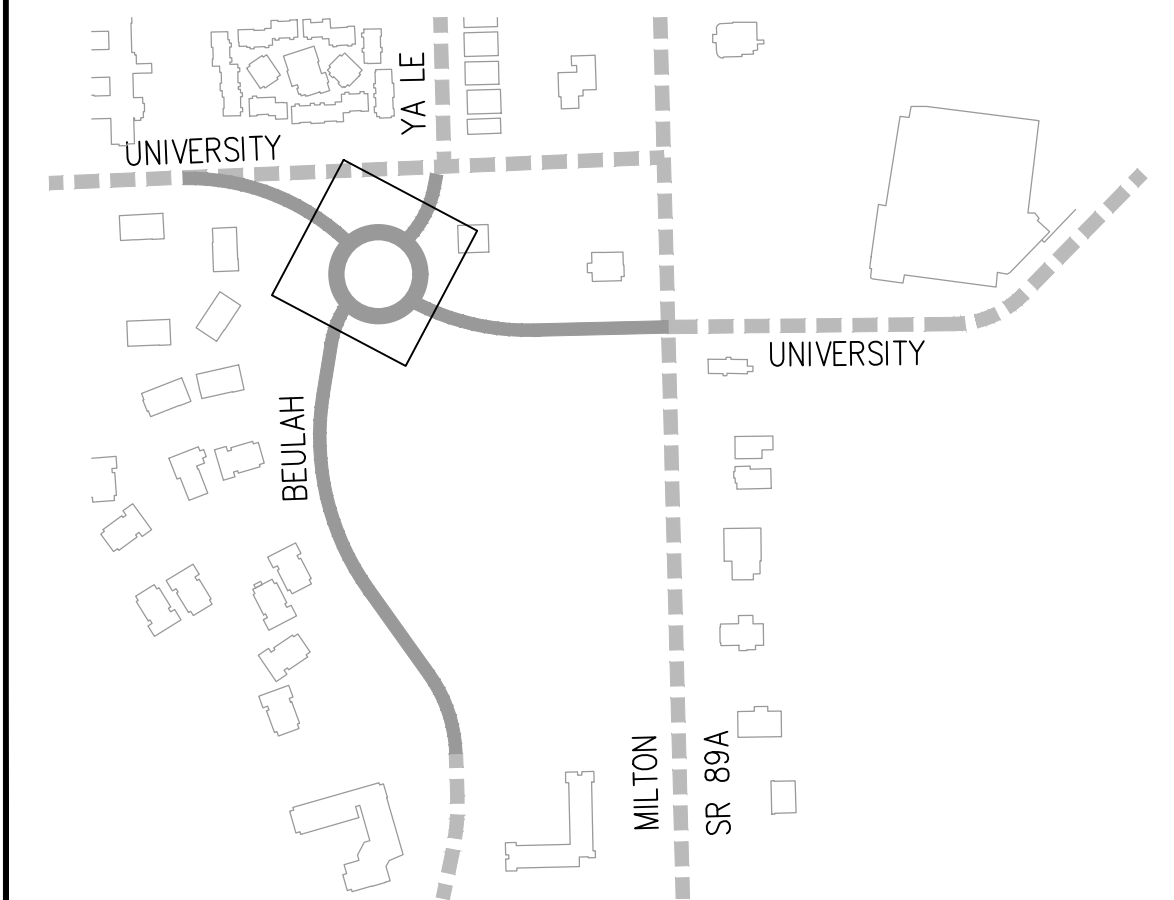
JOB NO: 18121		DATE: JUN 21		SCALE: AS SHOWN		DRAWN: SLV		DESIGN: SLV		CHECKED: SGI	
110 W. Dole Avenue Flagstaff, AZ 86001 928.773.0354 928.774.8934 fax www.swi.coz.com											
REVISIONS		BY									
NO.		DATE									
DESCRIPTION											
Call at least two full working days before you begin excavation. <b>ARIZONA 811</b> Arizona Blue Stakes, Inc. (928-5348) 808 84-1 or 1-800-514-1111 (928-5348)											
SHT NO. OF		DRAWING NO.									
13 OF		<b>PV01</b>									
C.O.F. Project #PZ XX-XXXX											



INTERNAL CIRCLE SECTION A  
NO SCALE

### GENERAL SHEET NOTES

- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE UNIVERSITY CENTERLINE.
- VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF PAVEMENT (ASPHALT) OR LIP OF GUTTER. ADD CURB HEIGHT TO GET TO TOP OF CURB ELEVATION.
- SEE DWG PVD1 FOR CONSTRUCTION KEYNOTES AND QUANTITIES.
- ALL SIDEWALK AND FULTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
- ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



60%  
PRELIMINARY  
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BIDDING OR RECORDING

JOB NO:	18121	FLAGSTAFF
DATE:	JUN 21	ARIZONA
SCALE:	AS SHOWN	
DRAWN:	SLV	
DESIGN:	SLV	
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**SWI**  
Shephard Westnizer, Inc.

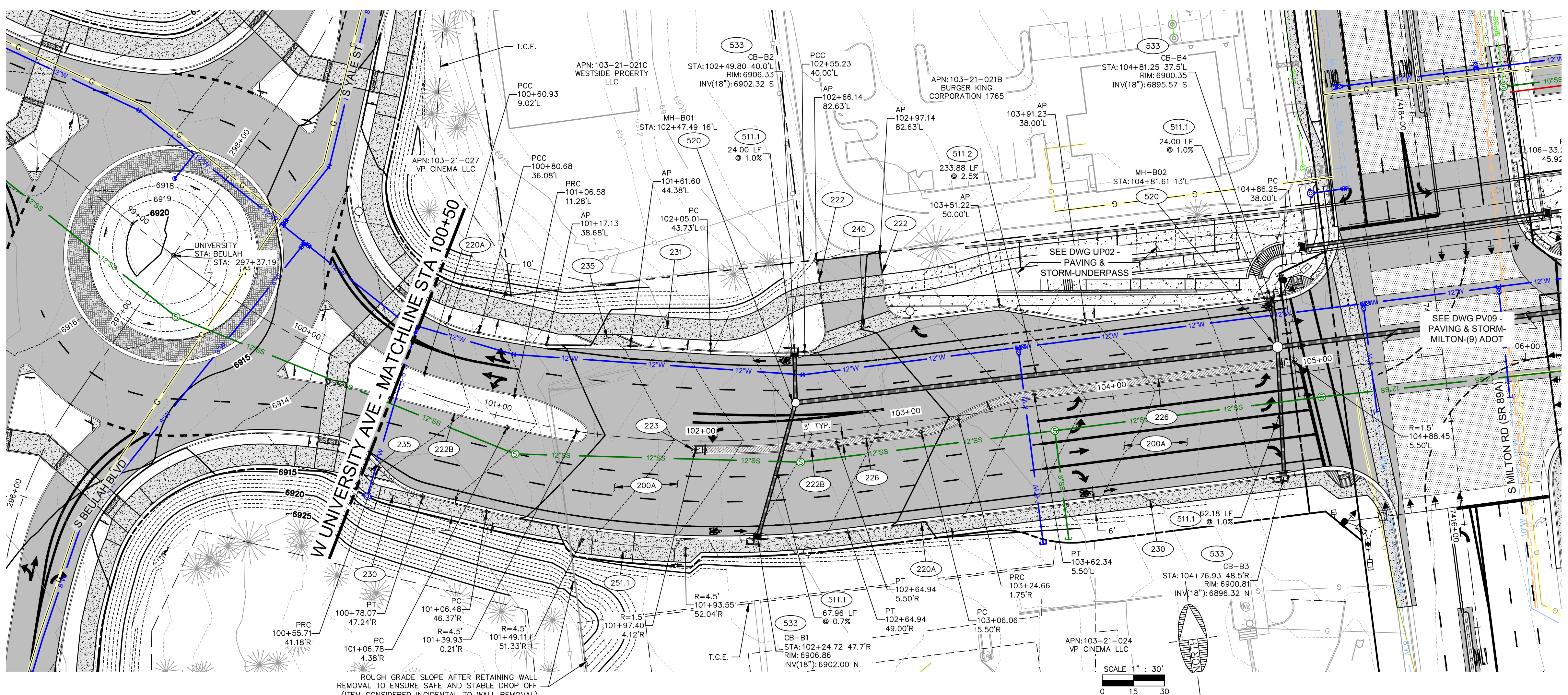
NO.	DESCRIPTION	DATE	BY

Call at least two full working days before you begin excavation.  
**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-538-8111 or 1-800-514-1111)

DRAWING NO. **DT06**

SHT NO. 14 OF 62

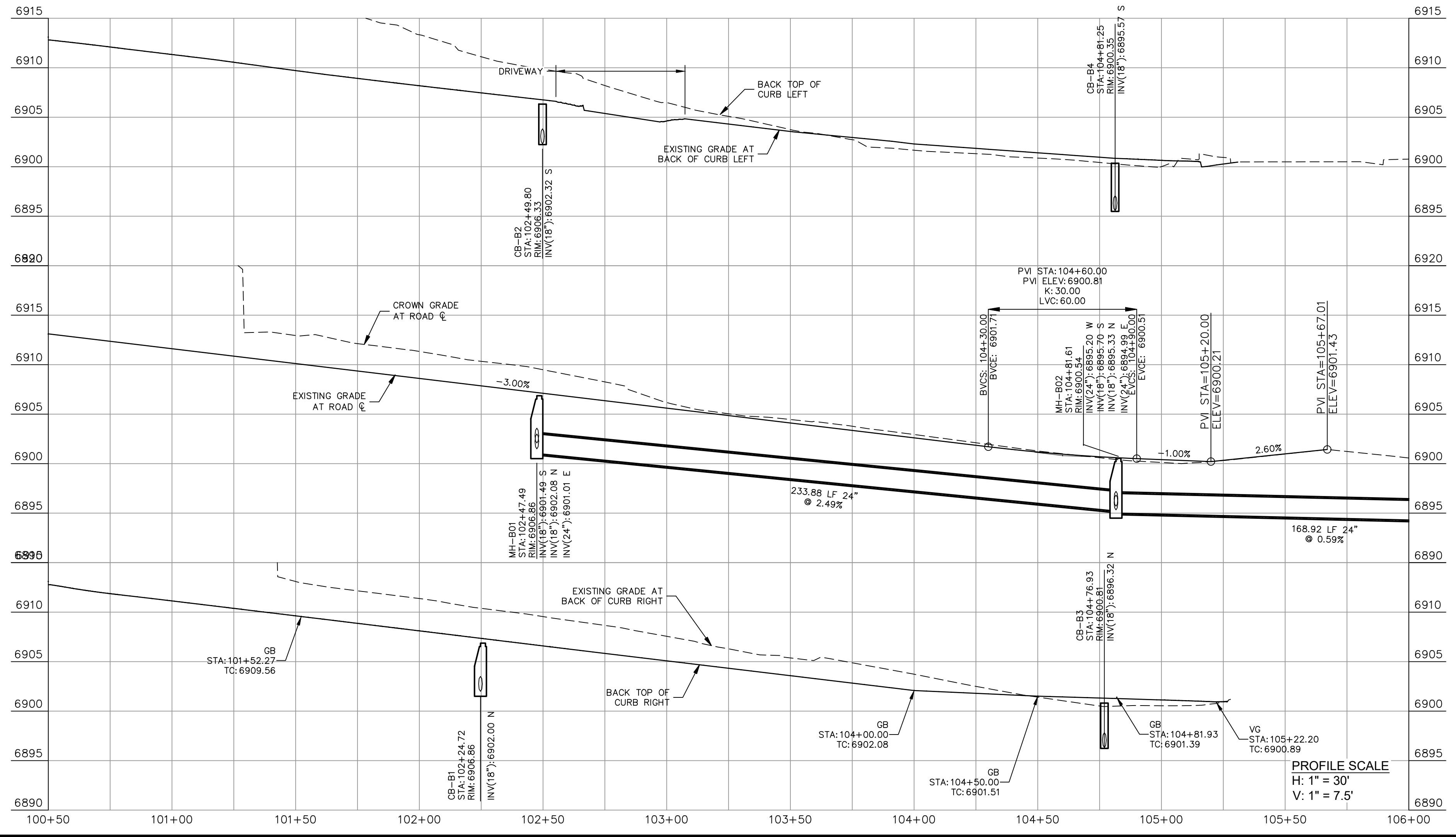
C.O.F. Project #PZ XX-XXXX



**CITY IMPROVEMENTS - PAVING & STORM**

200A	3,886 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
220A	960 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
222	2 EA	CONSTRUCT CURB TERMINATION PER M.A.G. STD. DTL. 222.
222B	897 LF	CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222 TYPE 'B' AND DETAIL 'X' ON DWG DT03.
223	1 EA	CONSTRUCT MEDIAN NOSE TRANSITION PER M.A.G. STD. DTL. 223.
230	2,629 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 5' TYPICAL).
231	2,233 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN 8' OR 10' TYPICAL).
235	2 EA	CONSTRUCT BIKE RAMP PER DETAIL '1' ON DWG DT03.
240	45 LF	CONSTRUCT CONCRETE VALLEY GUTTER PER C.O.F. STD. DTL. 8-06-010.
251.1	470 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041.
511.1	180 LF	INSTALL 18" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621, TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
511.2	235 LF	INSTALL 24" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621, TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
520	2 EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
533	4 EA	CONSTRUCT TYPE "D" CATCH BASIN PER M.A.G. STD. DETAIL 533-1, 3' WING

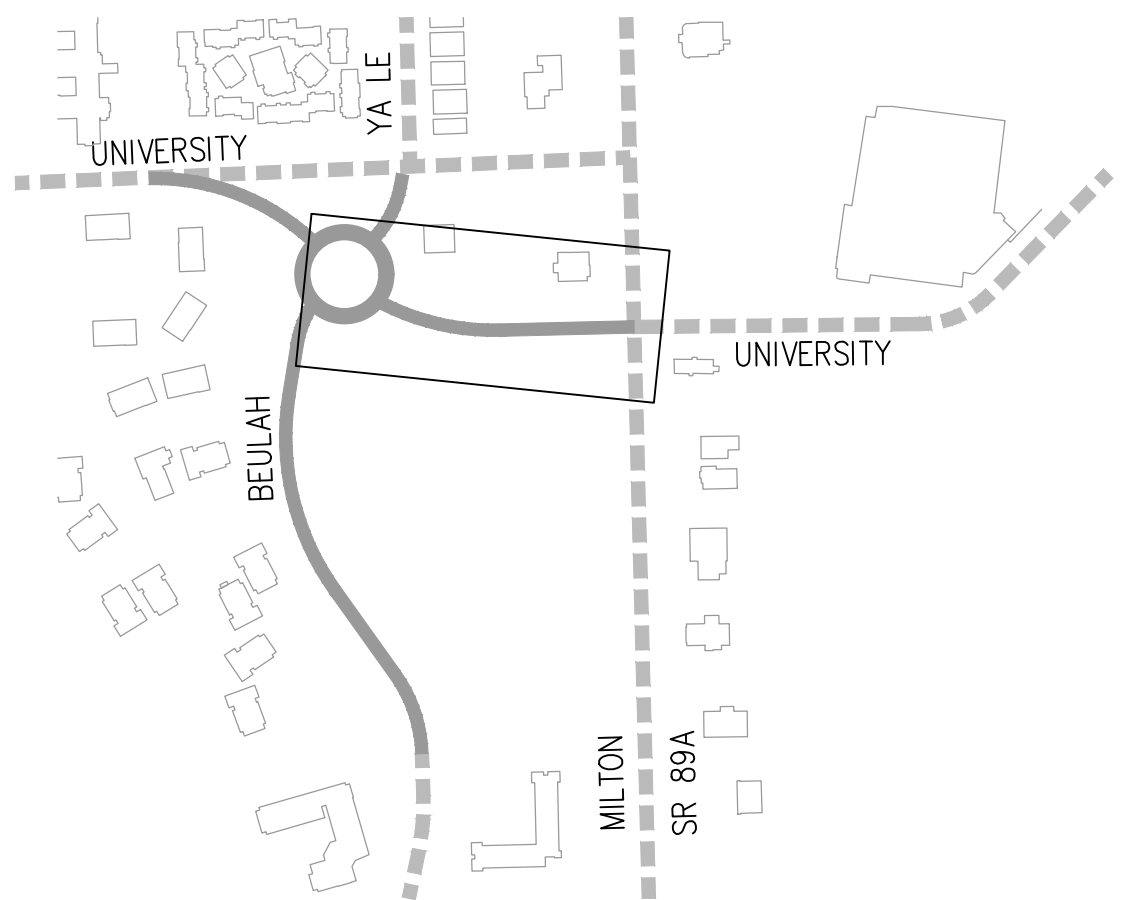
ROUGH GRADE SLOPE AFTER RETAINING WALL REMOVAL TO ENSURE SAFE AND STABLE DROP OFF (ITEM CONSIDERED INCIDENTAL TO WALL REMOVAL)



PROFILE SCALE  
H: 1" = 30'  
V: 1" = 7.5'

**GENERAL SHEET NOTES**

- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
- VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
- ALL SIDEWALK AND FUTS TRAILS SHOWN ON THIS PLAN TO HAVE A 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
- ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



**60% PRELIMINARY**  
NOT FOR CONSTRUCTION, BIDDING OR RECORDING

JOB NO:	18121	FLAGSTAFF
DATE:	JUN 21	ARIZONA
SCALE:	AS SHOWN	
DRAWN:	SLV	
DESIGN:	SLV	
CHECKED:	SLV	

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Flagstaff, AZ 86001  
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928.774.8934 fax  
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BEULAH & UNIVERSITY IMPROVEMENT PLANS

**PAVING & STORM-UNIVERSITY (2)**

REVISIONS

NO.	DESCRIPTION	DATE	BY

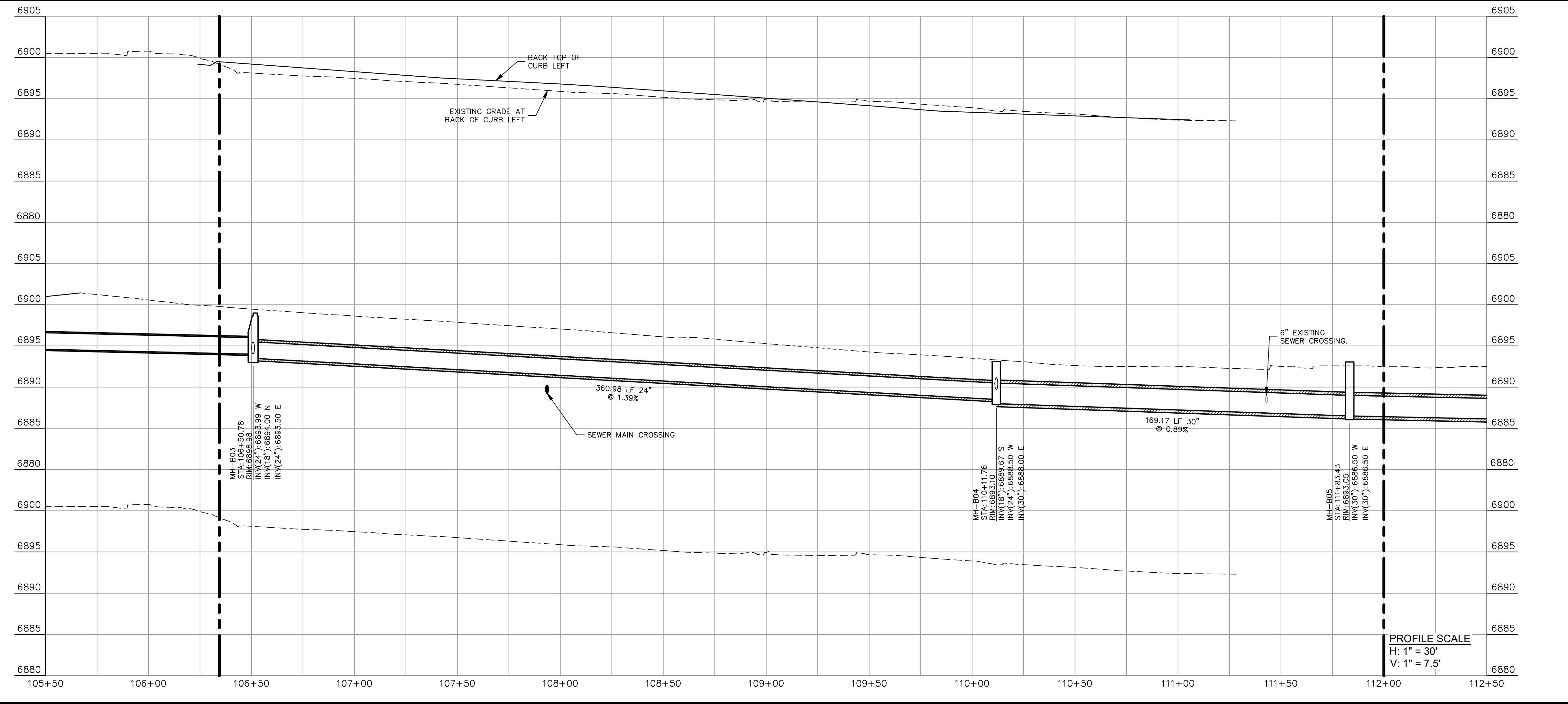
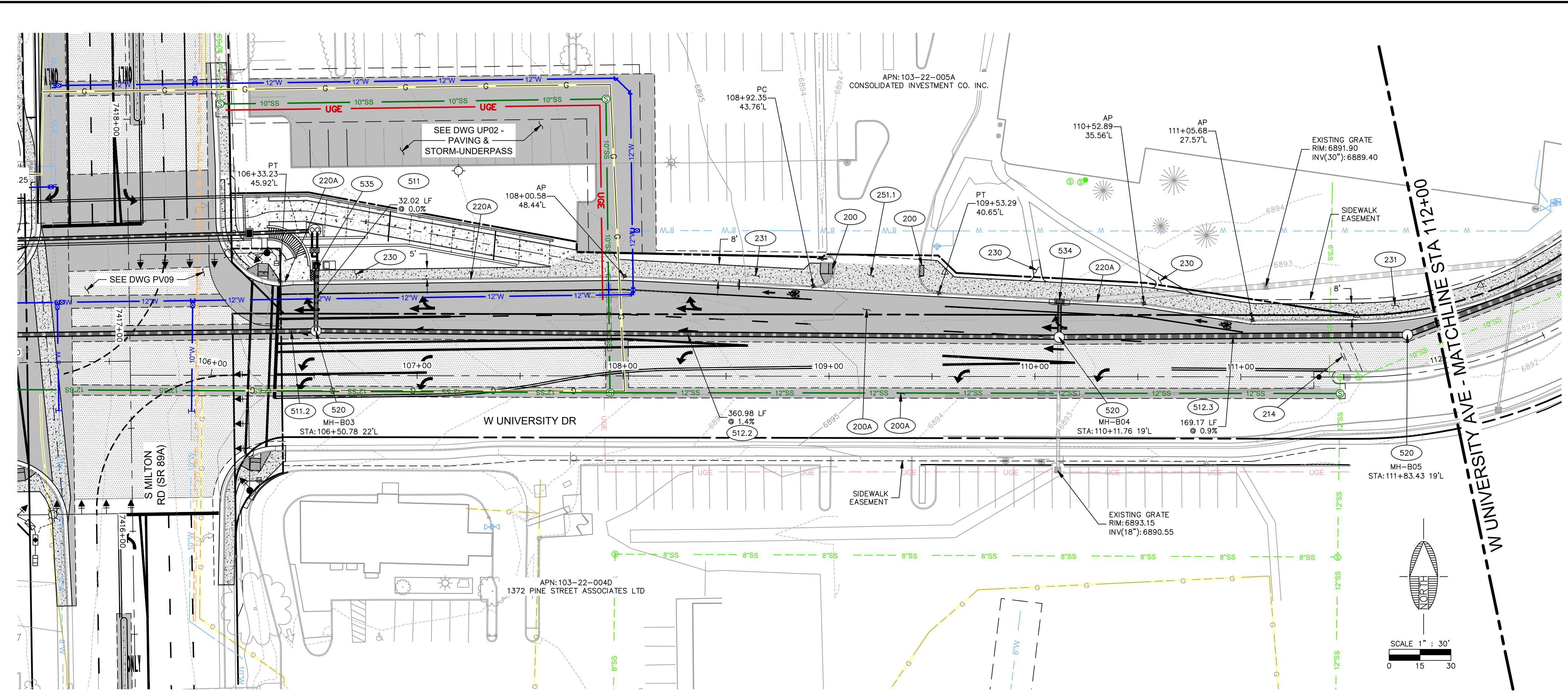
Call at least two full working days before you begin excavation.

**ARIZONA811**  
Arizona Blue Stakes, Inc. (928-5348)  
888-84-1111 or 1-800-514-1111 (928-5348)

DRAWING NO. **PV02**

SHT NO. 15 OF 62

C.O.F. Project #PZ XX-XXXX

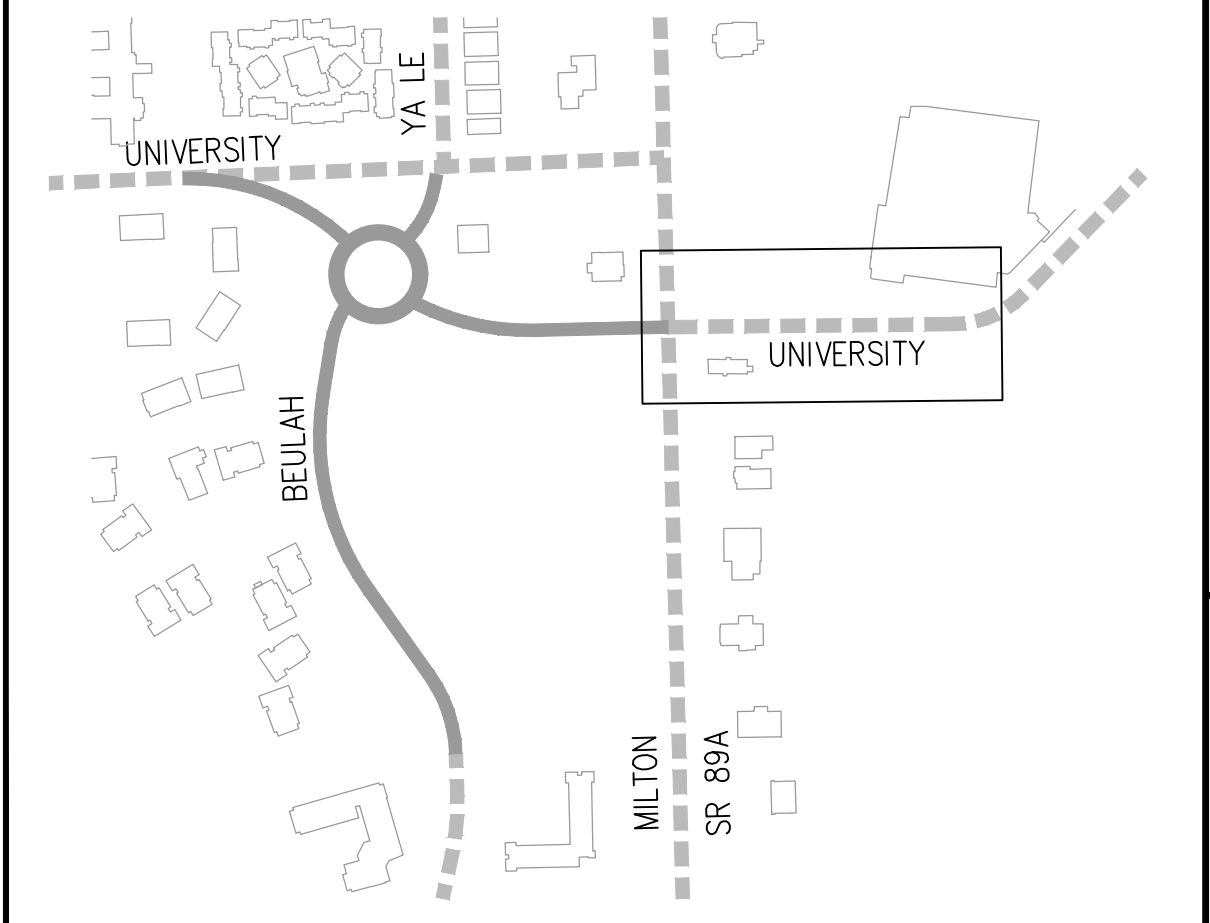


**CITY IMPROVEMENTS - PAVING & STORM**

200A	1,586 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
220A	564 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
214	1,315 SY	MILL AND OVERLAY. MILLING OF ASPHALT CONCRETE SHALL CONFORM TO M.A.G. SPEC. SECTION 317. MILLING SHALL BE PERFORMED TO A DEPTH OF 2" AS SHOWN PER PLANS. OVERLAY WITH 2" OF ASPHALT CONCRETE PER M.A.G. SPEC. SECTION 321.
230	583 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 5' TYPICAL).
231	3,233 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN 8' OR 10' TYPICAL).
251.1	560 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041.
511	39 LF	INSTALL 15" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
511.2	17 LF	INSTALL 24" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
512.2	361 LF	INSTALL 24" DIA RGRCP (CLASS 5) PER M.A.G. SPEC. SECTION 618. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601 AND C.O.F. STD. DETAIL 09-01-031.
512.3	184 LF	INSTALL 30" DIA RGRCP (CLASS 5) PER M.A.G. SPEC. SECTION 618. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601 AND C.O.F. STD. DETAIL 09-01-031.
520	3 EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
534	1 EA	INSTALL SALVAGED FLARED END SECTION AND TRASH RACK.
535	1 EA	INSTALL CAP ON STORM DRAIN, FOR FUTURE USE.

**GENERAL SHEET NOTES**

- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
- VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
- ALL SIDEWALK AND FUTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
- ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



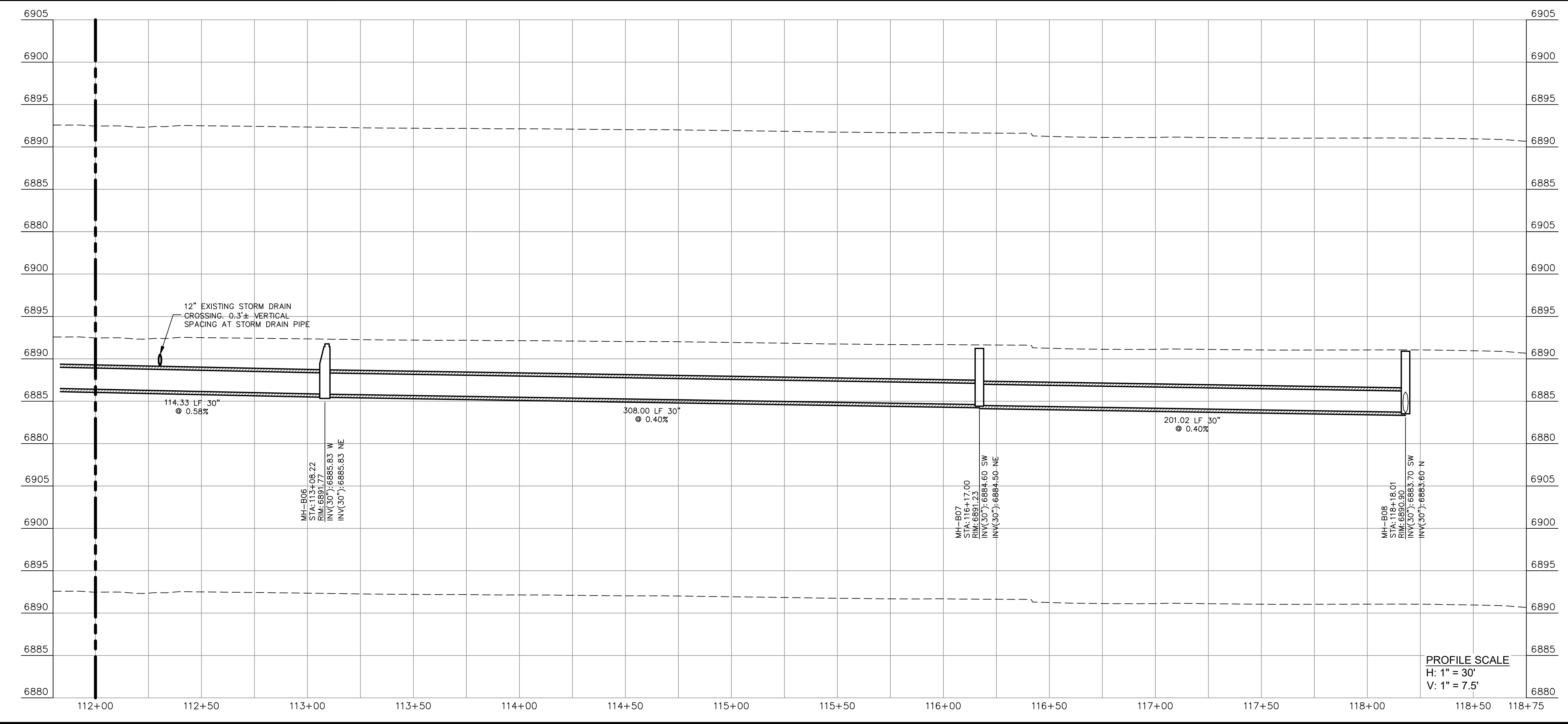
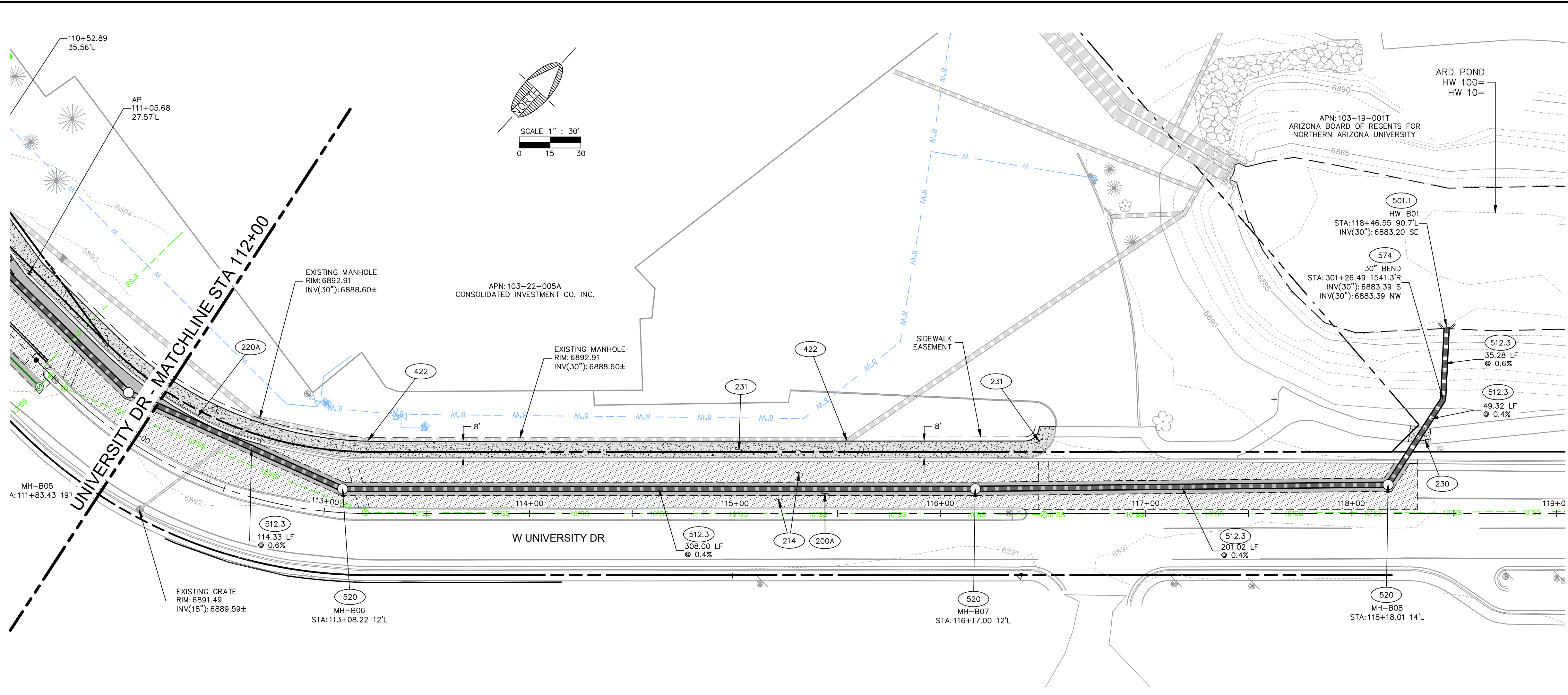
**60% PRELIMINARY**  
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JOB NO. 18121	DATE JUN 21	SCALE AS SHOWN	DRAWN: SJV	DESIGN: SJV	CHECKED: SCI
110 W. Dole Avenue Flagstaff, AZ 86001 928.774.8354 928.774.8934 fax www.swiwi.com					
<b>SWI</b> Shephard Wesnitzer, Inc.					
NO.	DESCRIPTION	BY	DATE		
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ARIZONA 811 Arizona Blue Stakes, Inc.					
SHT NO. 16 OF 62 C.O.F. Project #PZ XX-XXXX					



PLOTTED: Jun 28, 2021 - 4:34pm

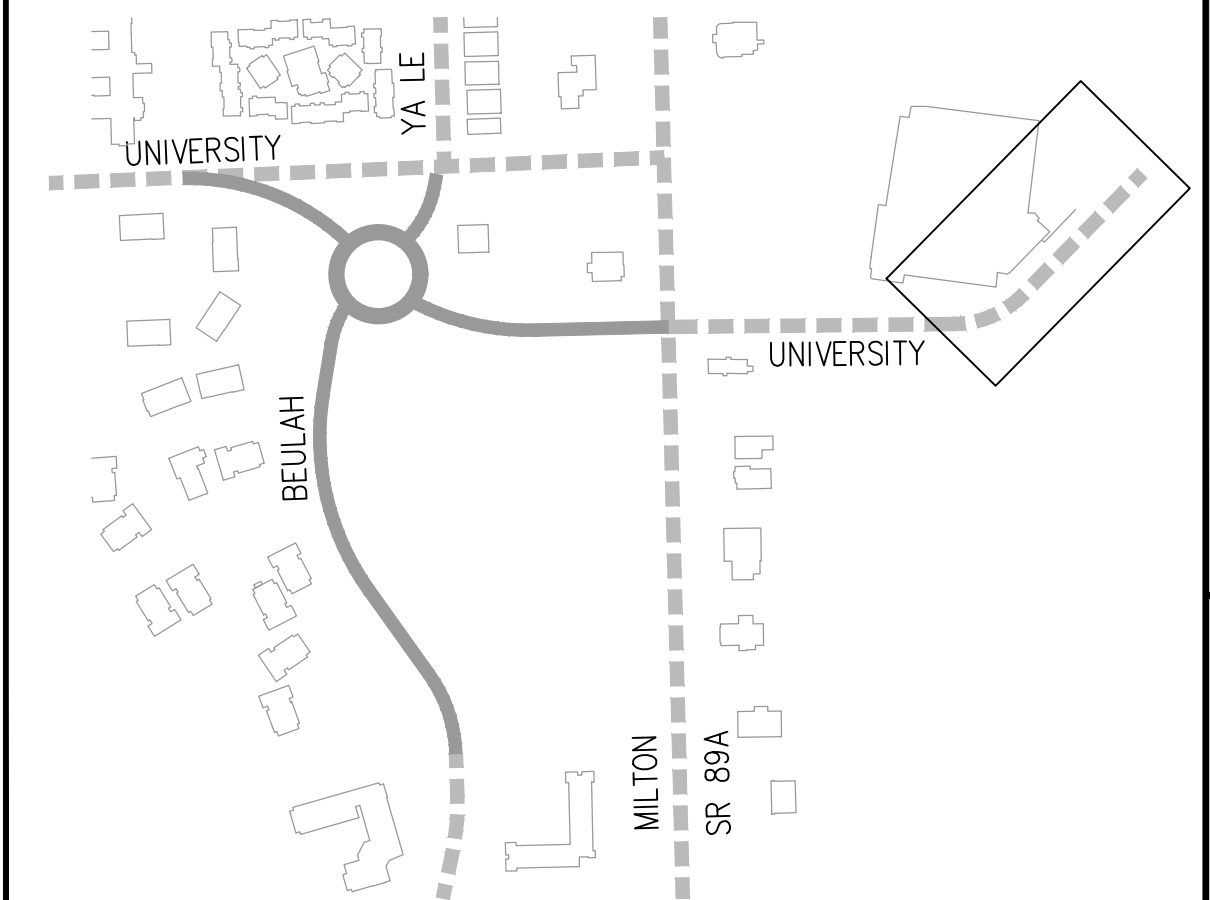
FILE: P:\2018\18121\Drawings\Construction\Plans\PAVING-STORM-UNIVERSITY.dwg SW-C30-2021



**CITY IMPROVEMENTS - PAVING & STORM**

200A	442 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
220A	53 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
214	1,129 SY	MILL AND OVERLAY. MILLING OF ASPHALT CONCRETE SHALL CONFORM TO M.A.G. SPEC. SECTION 317. MILLING SHALL BE PERFORMED TO A DEPTH OF 2" AS SHOWN PER PLANS. OVERLAY WITH 2" OF ASPHALT CONCRETE PER M.A.G. SPEC. SECTION 321.
230	80 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 5' TYPICAL).
231	3,531 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN 8' OR 10' TYPICAL).
422	2 EA	ADJUST MANHOLE FRAME AND COVER PER M.A.G. STD. DTL. 422 AND PER C.O.F. STD. DTL. 9-03-062.
501.1	1 EA	CONSTRUCT U TYPE HEADWALL PER M.A.G. STD. DETAIL. 501.
512.3	693 LF	INSTALL 30" DIA RGRCP (CLASS 5) PER M.A.G. SPEC. SECTION 618. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601 AND C.O.F. STD. DETAIL. 09-01-031.
520	3 EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
574	1 EA	INSTALL 30" DIA RGRCP (CLASS 5) FITTING PER M.A.G. SPEC. SECTION 618. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601 AND C.O.F. STD. DETAIL. 09-01-031.

- GENERAL SHEET NOTES**
- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
  - VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
  - ALL SIDEWALK AND FUTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
  - ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



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FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

PAVING & STORM-UNIVERSITY (4)

JOB NO: 18121  
 DATE: JUN 21  
 SCALE: AS SHOWN  
 DRAWN: SJV  
 DESIGN: SJV  
 CHECKED: SCJ

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 Flagstaff, AZ 86001  
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 928.774.8934 fax  
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NO.	DESCRIPTION	DATE	BY

REVISIONS

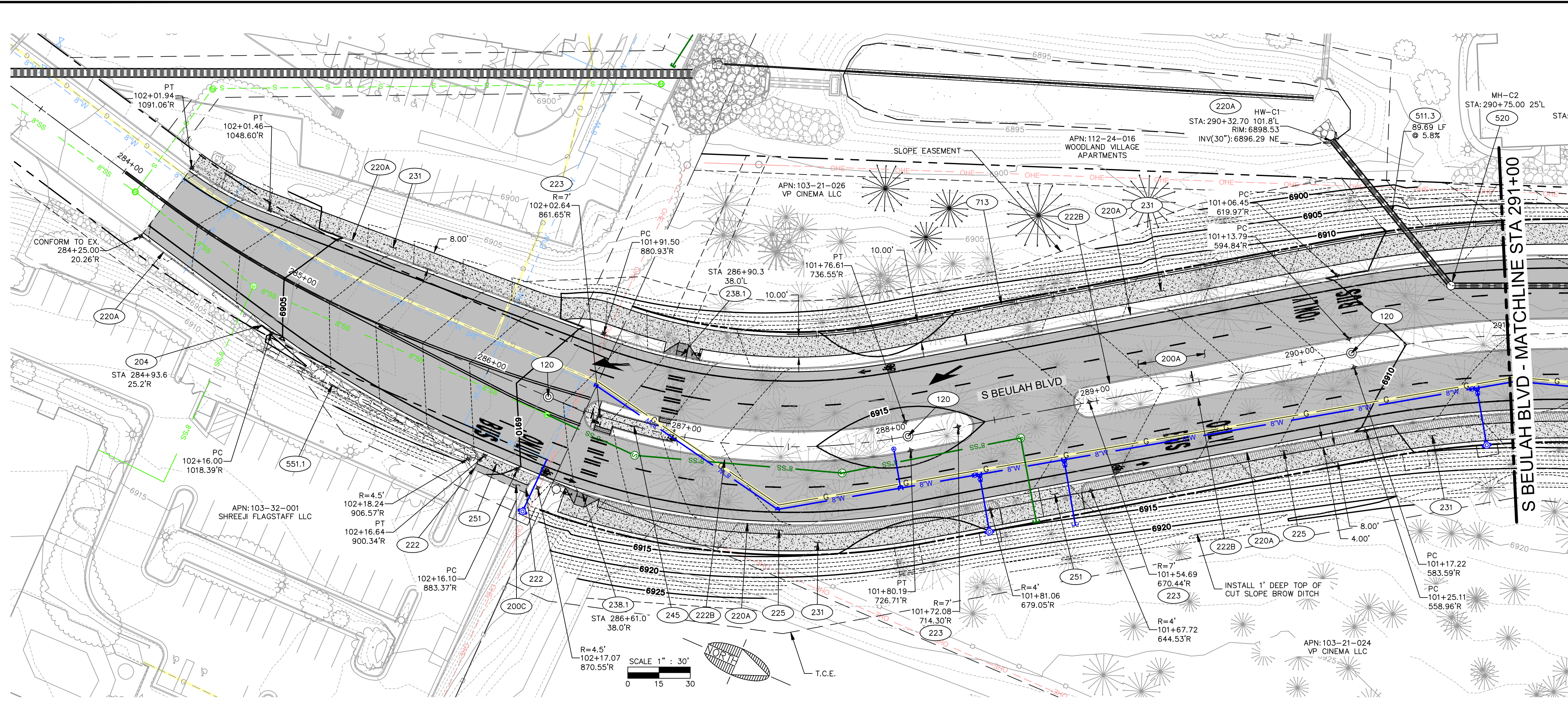
Call at least two full working days before you begin excavation.

**ARIZONA 811**  
 Arizona Blue Stakes, Inc.  
 888 84-1111 or 1-800-514-1111 (AZ-5148)

DRAWING NO. **PV04**

SHT NO. 17 OF 62

C.O.F. Project #PZ XX-XXXX



**CITY IMPROVEMENTS - PAVING & STORM**

120	3 EA	INSTALL SURVEY MARKER PER C.O.F. STD. DTL. 3-02-070.
200A	4,387 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
200C	10 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '3' ON DWG DT03 OR MATCH EXISTING STRUCTURAL SECTION, WHICHEVER IS GREATER.
204	1 EA	CURB CUT PER DETAIL 'X'.
220A	1,267 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
222	2 EA	CONSTRUCT CURB TERMINATION PER M.A.G. STD. DTL. 222.
222B	954 LF	CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222 TYPE 'B' AND DETAIL 'X' ON DWG DT03.
223	3 EA	CONSTRUCT MEDIAN NOSE TRANSITION PER M.A.G. STD. DTL. 223.
225	1,610 SF	INSTALL INTERLOCKING CONCRETE PAVERS PER C.O.F. STD. DTL. 16-01-240.
231	9,506 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN '8' OR '10' TYPICAL).
238.1	2 EA	CONSTRUCT CONCRETE PERPENDICULAR SIDEWALK RAMP PER C.O.F. STD. DTL. 10-10-034 AND M.A.G. STD. DTL. 238-1.
245	255 SF	CONSTRUCT DEPRESSED CONCRETE PEDESTRIAN ISLAND REFUGE.
251	664 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041 AND M.A.G. STD. DTL. 251.
501.1	1 EA	CONSTRUCT U TYPE HEADWALL PER M.A.G. STD. DETAIL 501.
511.3	114 LF	INSTALL 30" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
520	1 EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
537	1 EA	CONSTRUCT TYPE 'G' CATCH BASIN PER M.A.G. STD. DETAIL 537.
551.1	94 SY	CONSTRUCT ROCK RIP-RAP PROTECTION D50=6" FOR A DEPTH =1'

FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

PAVING & STORM-BEULAH (5)

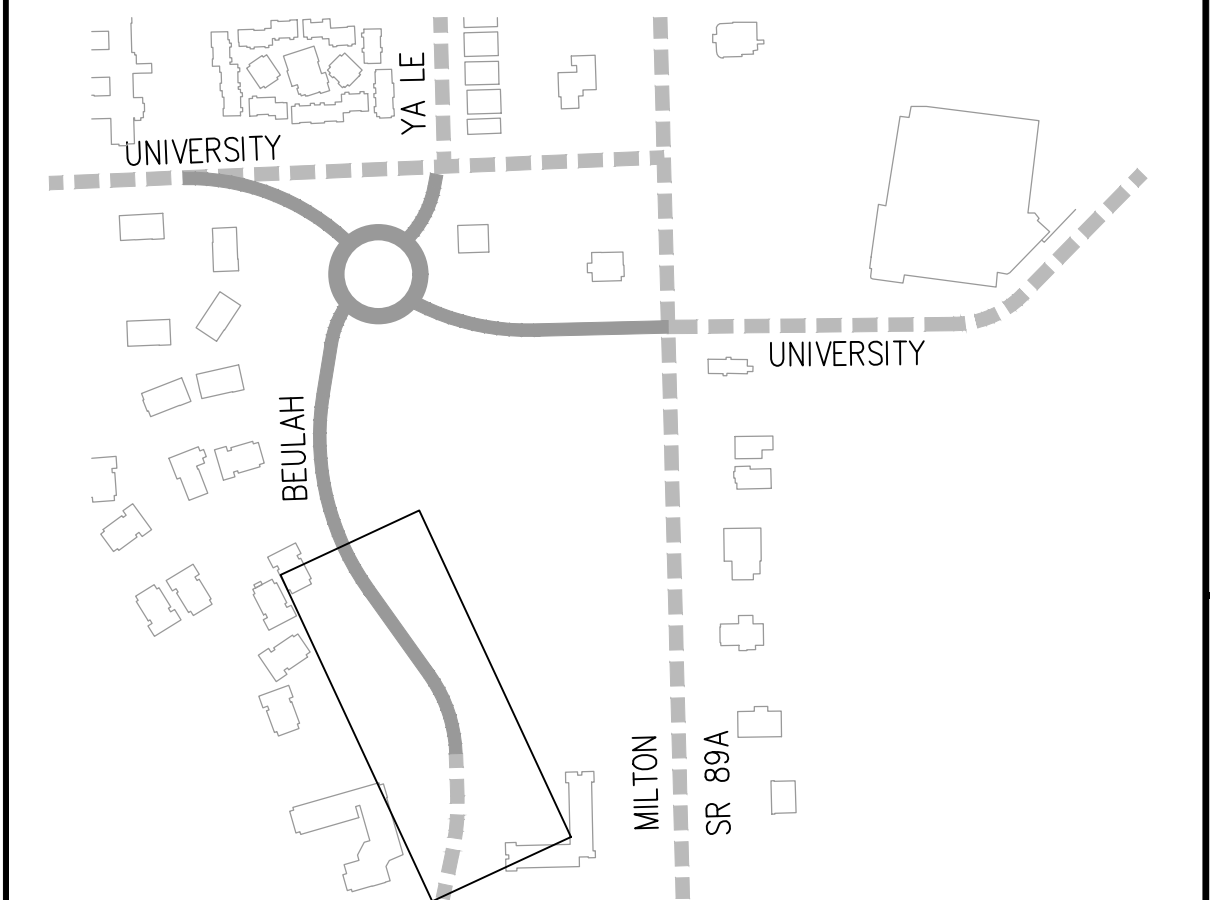
JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SJV  
DESIGN: SJV  
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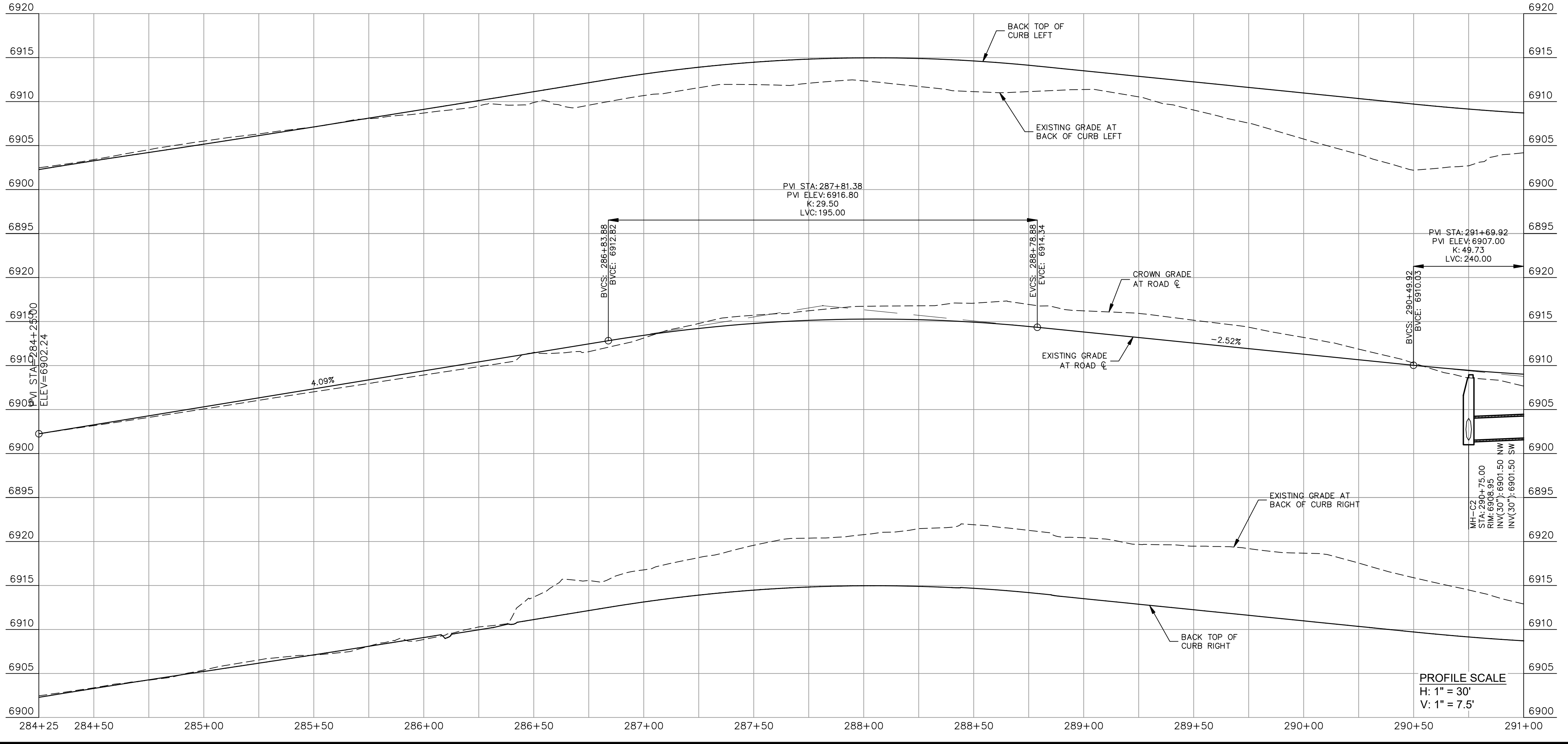
**GENERAL SHEET NOTES**

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- ALL SIDEWALK AND FUTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
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**60% PRELIMINARY**

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NO.	DESCRIPTION	DATE	BY

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**ARIZONA 811**  
Arizona Blue Stakes, Inc.

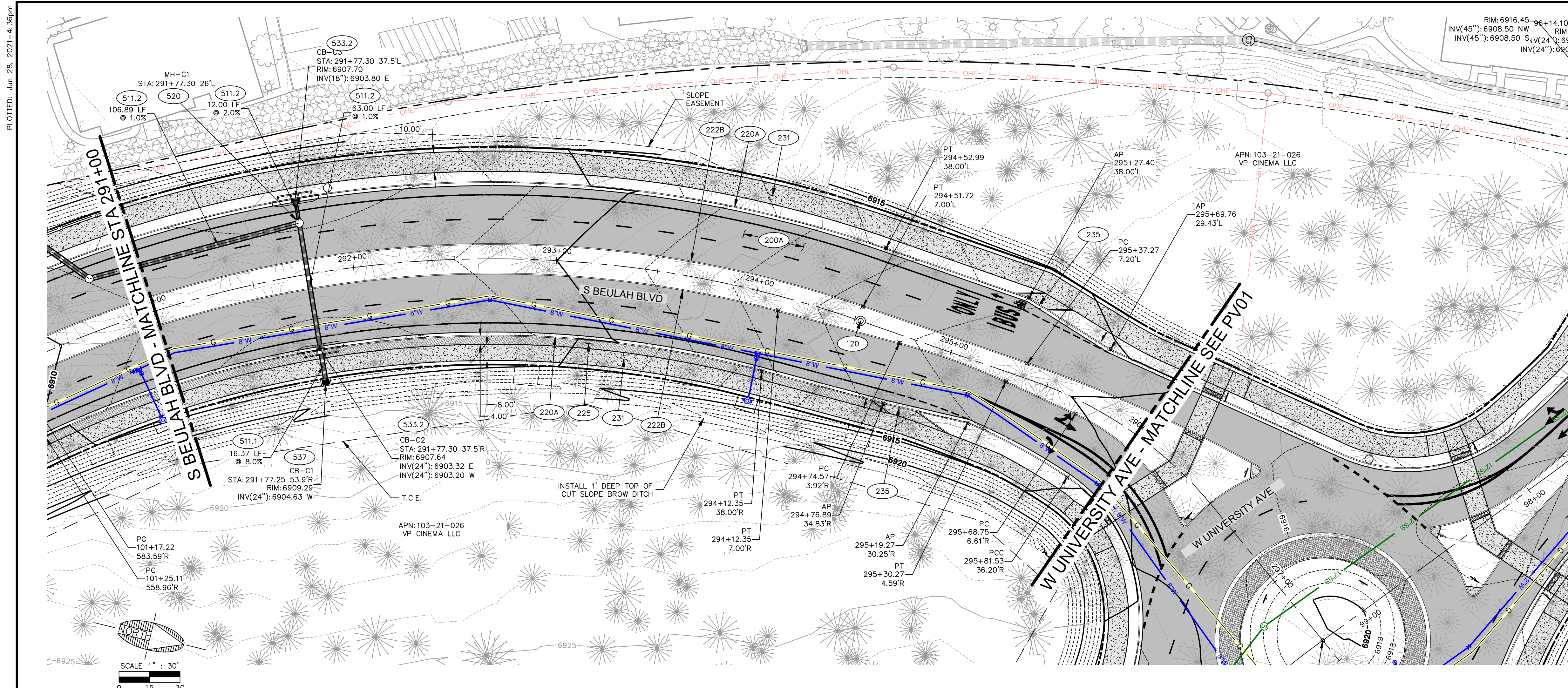
008 84-1 or 1-800-514-1111 (Toll-Free)

DRAWING NO. **PV05**

SHT NO. 18 OF 62

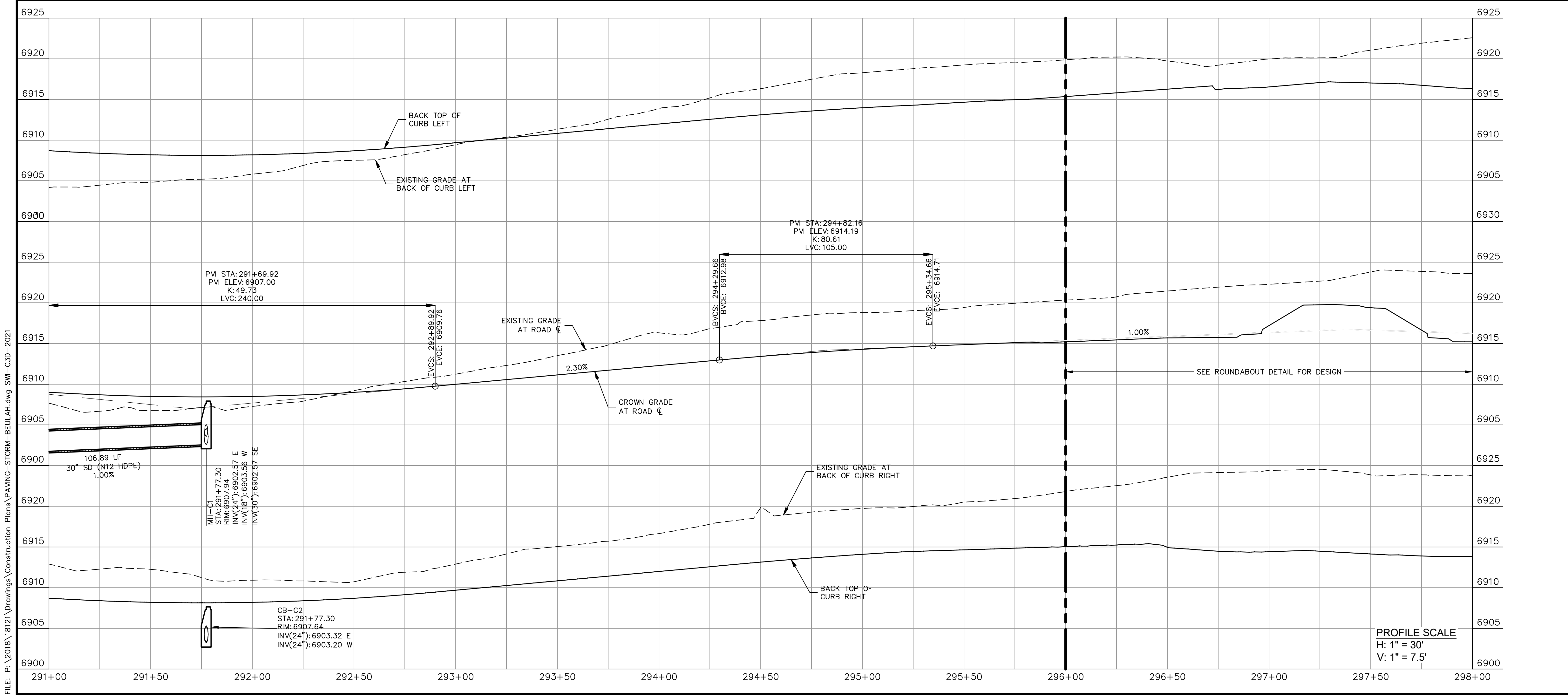
C.O.F. Project #PZ XX-XXXX

PLOTTED: Jun 28, 2021 - 4:36pm



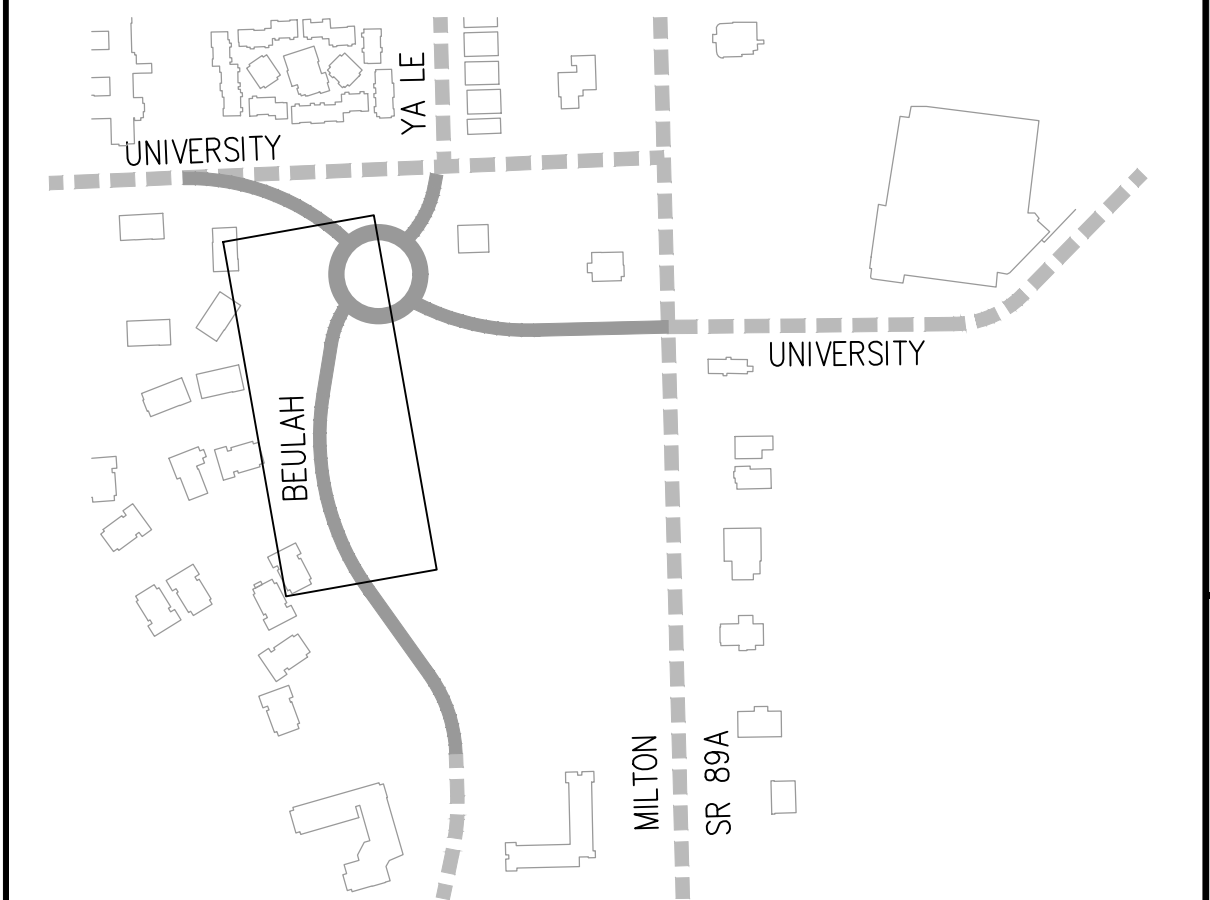
**CITY IMPROVEMENTS - PAVING & STORM**

120	1	EA	INSTALL SURVEY MARKER PER C.O.F. STD. DTL. 3-02-070.
200A	303	SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
220A	1,001	LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
222B	1,022	LF	CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222 TYPE 'B' AND DETAIL 'X' ON DWG DT03.
225	1,436	SF	INSTALL INTERLOCKING CONCRETE PAVERS PER C.O.F. STD. DTL. 16-01-240.
231	9,107	SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN '8' OR 10' TYPICAL).
235	2	EA	CONSTRUCT BIKE RAMP PER DETAIL '1' ON DWG DT03.
511.1	12	LF	INSTALL 18" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621, TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
511.2	92	LF	INSTALL 24" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621, TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
511.3	79	LF	INSTALL 30" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621, TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
520	1	EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
533.2	2	EA	CONSTRUCT TYPE "D" CATCH BASIN PER M.A.G. STD. DETAIL 533-1, 6' WING
537	1	EA	CONSTRUCT TYPE "G" CATCH BASIN PER M.A.G. STD. DETAIL 537.



**GENERAL SHEET NOTES**

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FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

PAVING & STORM-BEULAH (6)

JOB NO: 18121  
 DATE: JUN 21  
 SCALE: AS SHOWN  
 DRAWN: SJV  
 DESIGN: SJV  
 CHECKED: SCL

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**SWI**  
 Shephard Wesnitzer, Inc.

NO.	DESCRIPTION	DATE	BY

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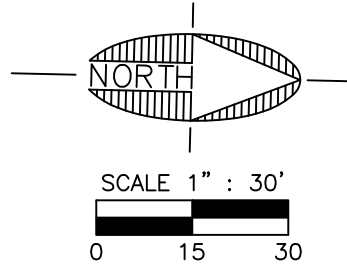
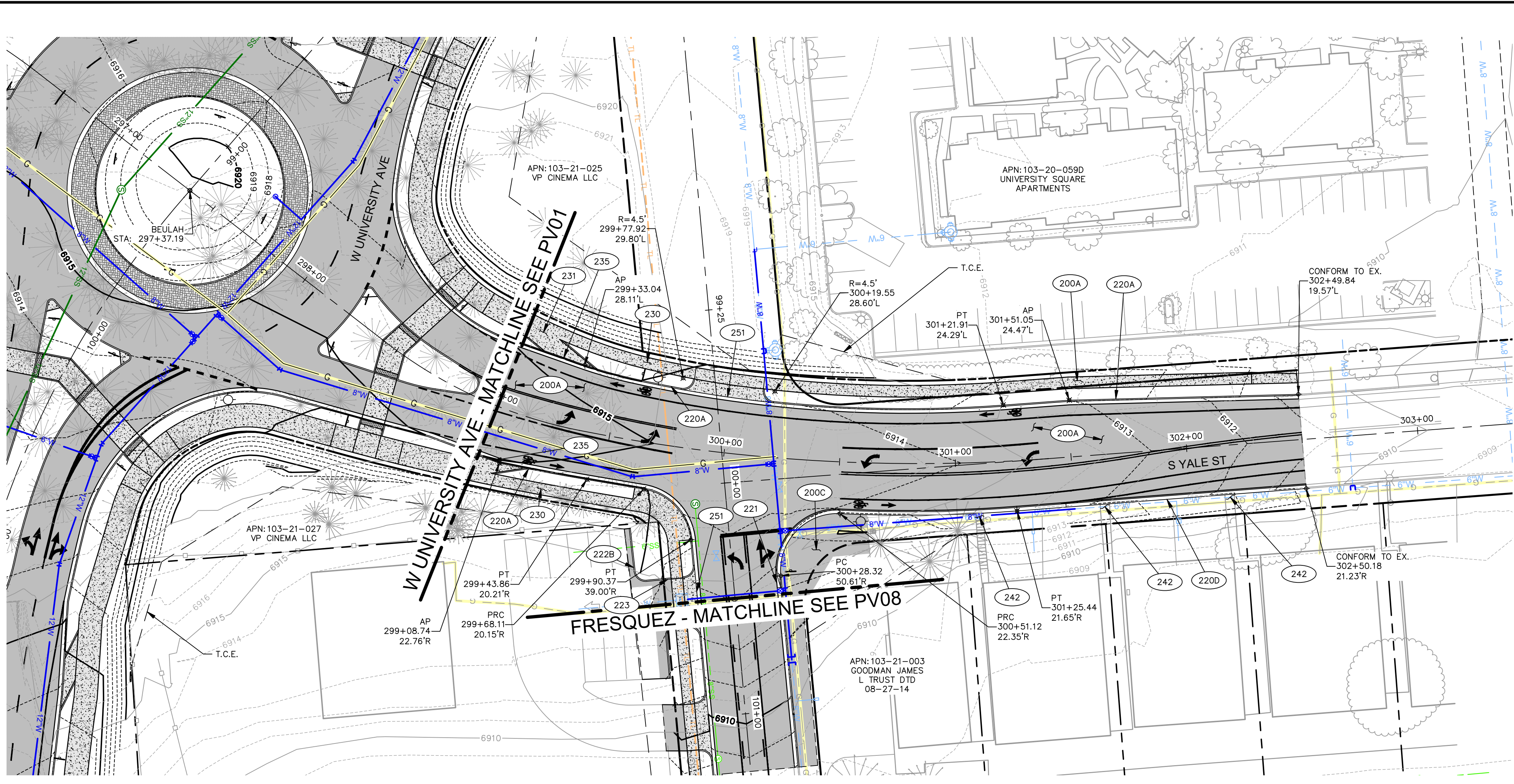
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 Arizona Blue Stakes, Inc.  
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 808.841.1111 or 1-800-514-1111 (T82-5348)

DRAWING NO. **PV06**

SHT NO. 19 OF 62

C.O.F. Project #PZ XX-XXXX

PLOTTED: Jun 28, 2021 - 4:36pm



**CITY IMPROVEMENTS - PAVING & STORM**

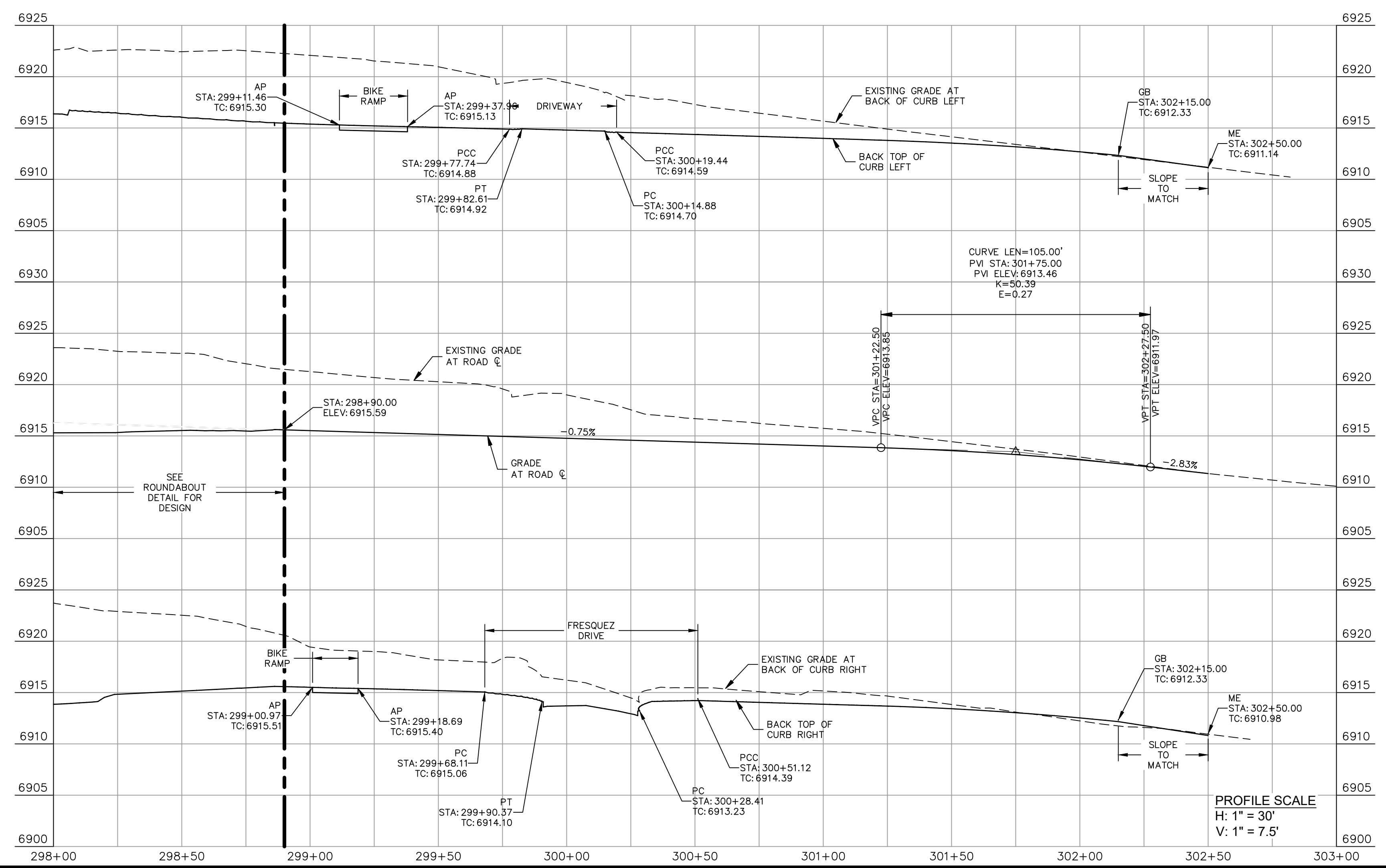
200A	1,810 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
200C	111 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '3' ON DWG DT03 OR MATCH EXISTING STRUCTURAL SECTION, WHICHEVER IS GREATER.
220A	380 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
220D	246 LF	CONSTRUCT ROLL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'D' AND DETAIL 'X' ON DWG DT03.
221	1 EA	CONSTRUCT CURB TRANSITION PER M.A.G. STD. DTL. 221, TYPE 'A' TO TYPE 'C'.
222B	34 LF	CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222 TYPE 'B' AND DETAIL 'X' ON DWG DT03.
223	1 EA	CONSTRUCT MEDIAN NOSE TRANSITION PER M.A.G. STD. DTL. 223.
230	2,310 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 5' TYPICAL).
231	106 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN 8' OR 10' TYPICAL).
235	2 EA	CONSTRUCT BIKE RAMP PER DETAIL '1' ON DWG DT03.
251	555 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041 AND M.A.G. STD. DTL. 251.
242	4 SY	ADJUST EXISTING WALKWAY TO BACK OF CURB.

JOB NO:	18121	DATE:	JUN 21
SCALE:	AS SHOWN	DRAWN:	SLV
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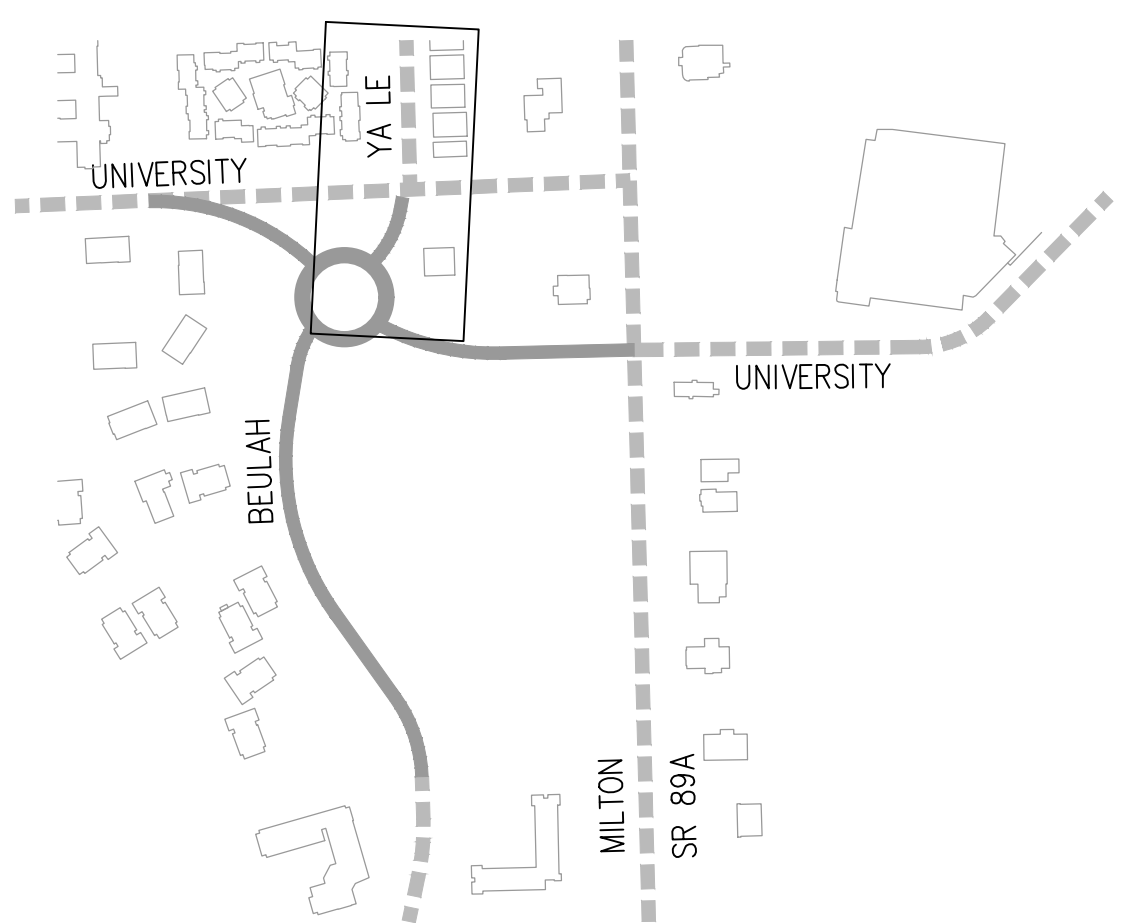
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**GENERAL SHEET NOTES**

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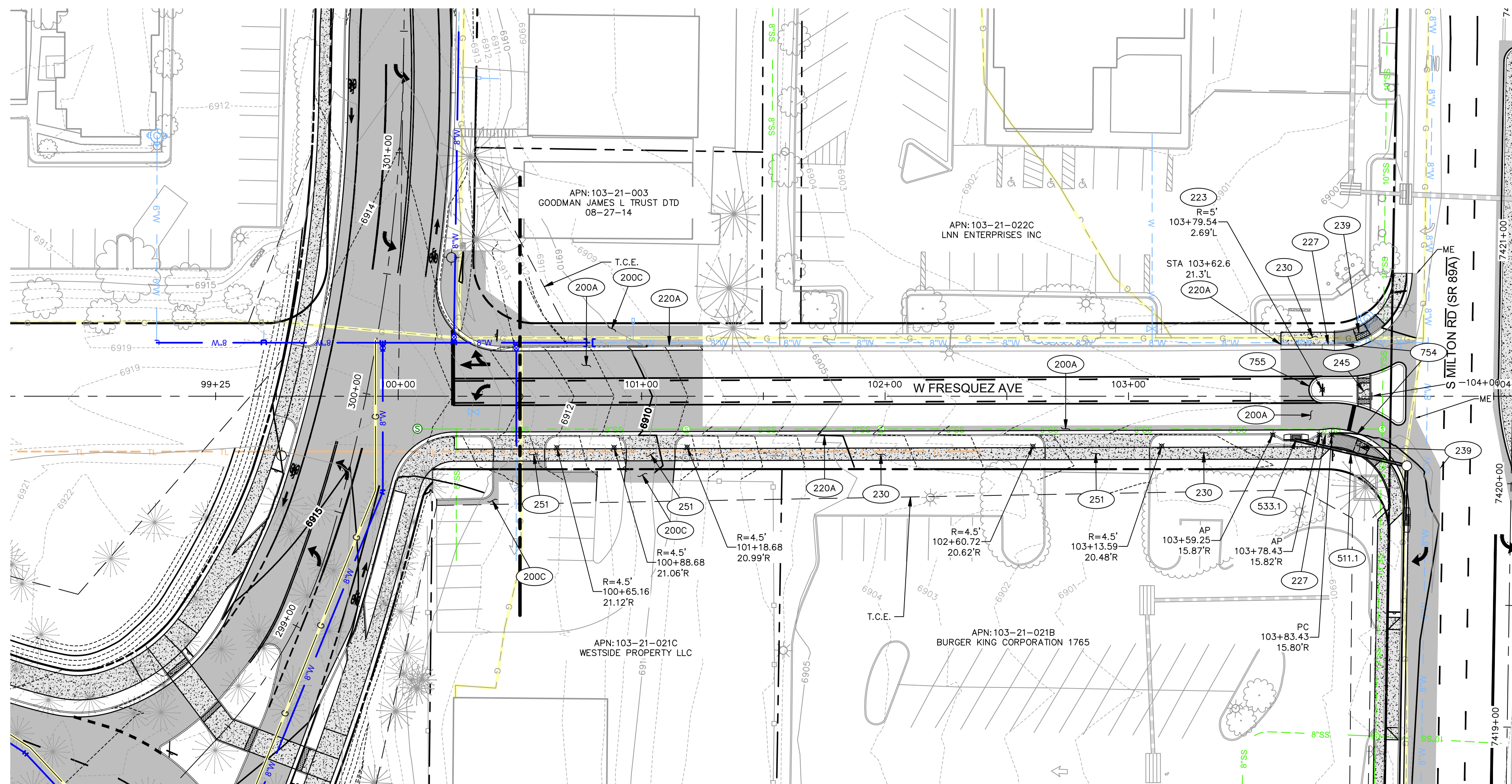
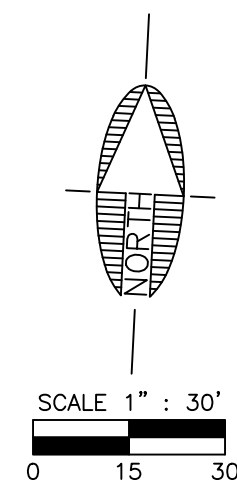
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Arizona Blue Stakes, Inc.  
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DRAWING NO. **PV07**

SHT NO. 20 OF 62

C.O.F. Project #PZ XX-XXXX

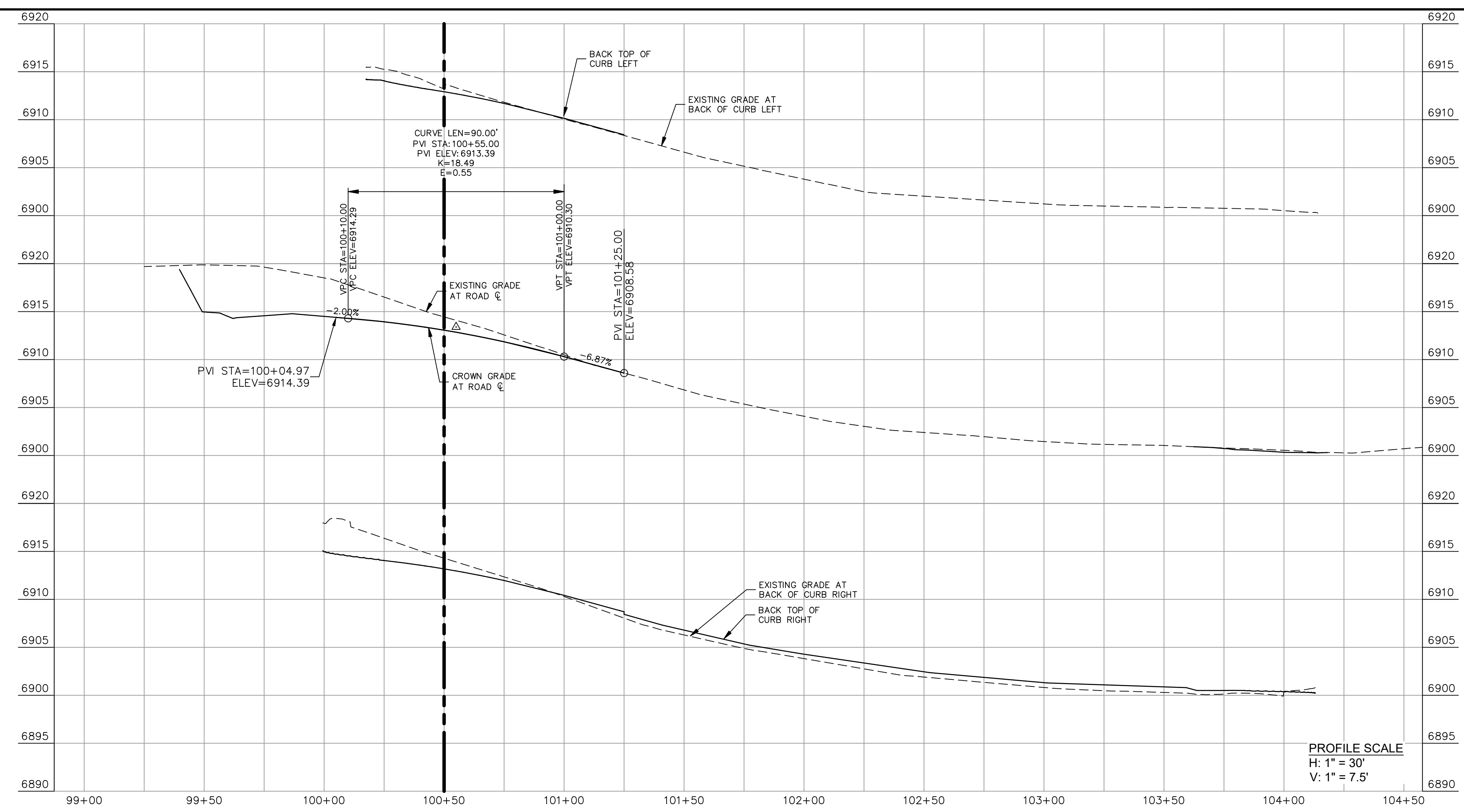
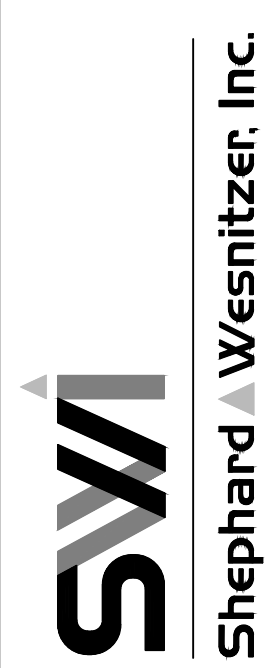


**CITY IMPROVEMENTS - PAVING & STORM**

200A	463 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '1' ON DWG DT03.
200C	109 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '3' ON DWG DT03 OR MATCH EXISTING STRUCTURAL SECTION, WHICHEVER IS GREATER.
220A	322 LF	CONSTRUCT VERTICAL CURB AND GUTTER PER M.A.G. STD. DTL. 220-1 TYPE 'A' AND DETAIL 'X' ON DWG DT03.
223	1 EA	CONSTRUCT MEDIAN NOSE TRANSITION PER M.A.G. STD. DTL. 223.
227	2 EA	CONSTRUCT CURB TRANSITION
230	1,549 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 5' TYPICAL).
239	2 EA	CONSTRUCT CONCRETE SIDEWALK RAMP PER ADOT STANDARD DRAWING C-05.30 ON 3 INCH THICK ABC.
245	70 SF	CONSTRUCT DEPRESSED CONCRETE PEDESTRIAN ISLAND REFUGE.
251	913 SF	CONSTRUCT RETURN TYPE DRIVEWAY PER C.O.F. STD. DTL. 10-10-041 AND M.A.G. STD. DTL. 251.
533.1	1 EA	CONSTRUCT TYPE "D" CATCH BASIN PER M.A.G. STD. DETAIL 533-1, DUAL 3' WINGS
511.1	39 LF	INSTALL 18" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND C.O.F. STD. DETAIL 09-01-030, 031 AND 032.
754	54 LF	CONSTRUCT CURB AND GUTTER TYPE D PER ADOT STANDARD DRAWING C-05.10 ON 3 INCH THICK ABC.
755	68 LF	CONSTRUCT SINGLE CURB PER ADOT STANDARD DRAWING C-05.10 ON 3 INCH THICK ABC.

JOB NO.:	18121	FLAGSTAFF
DATE:	JUN 21	ARIZONA
SCALE:	AS SHOWN	
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DESIGN:	SLV	
CHECKED:	SLV	

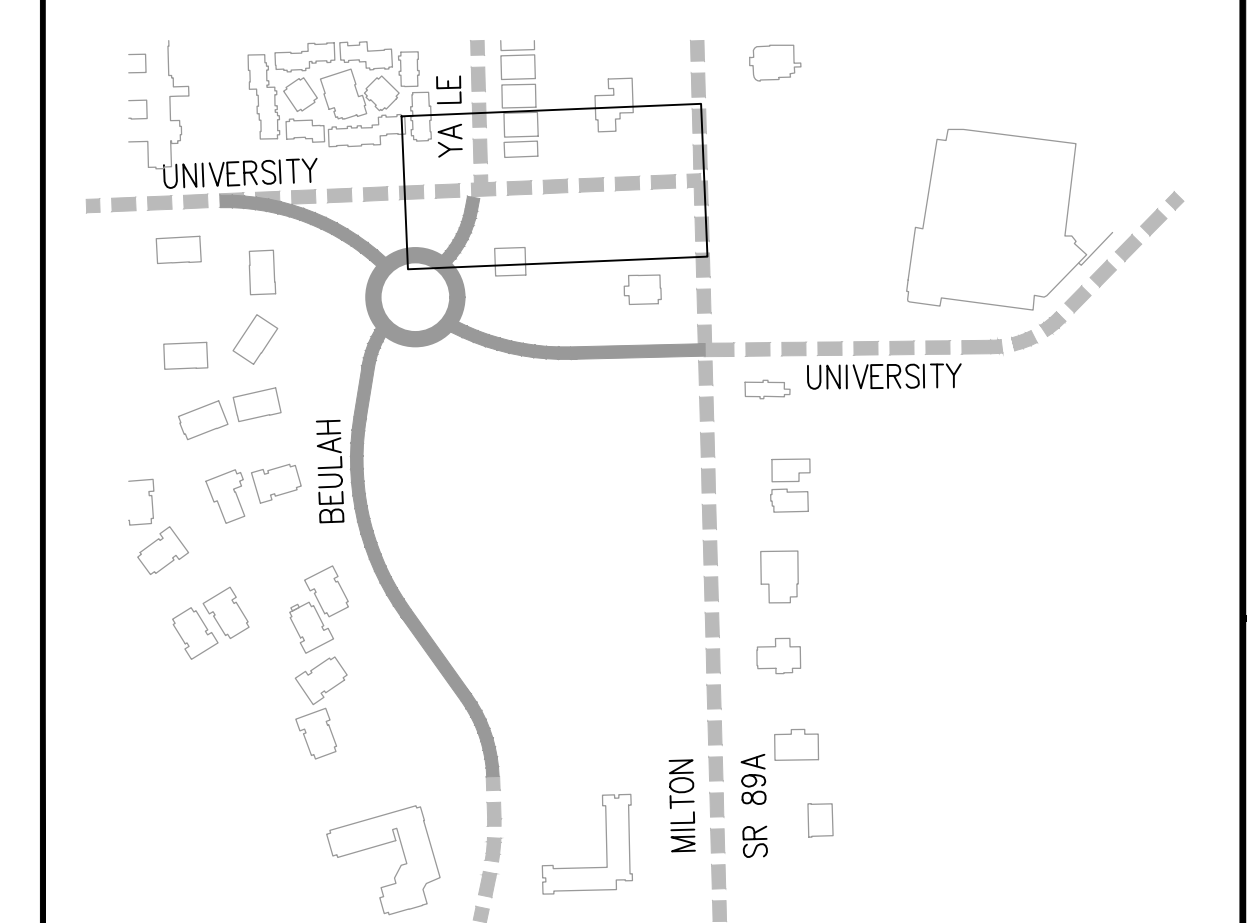
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PROFILE SCALE  
H: 1" = 30'  
V: 1" = 7.5'

**GENERAL SHEET NOTES**

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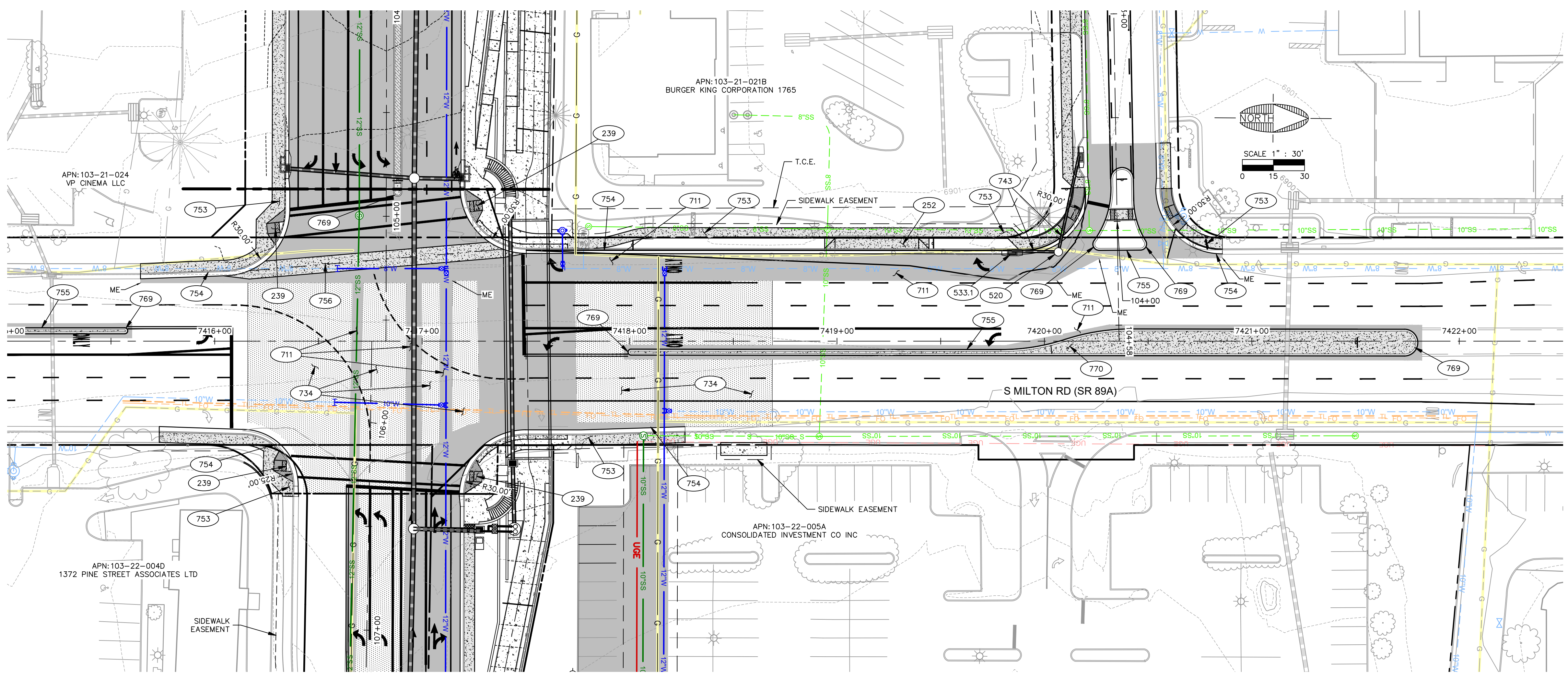


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NO.	DESCRIPTION	DATE	BY

DRAWING NO. **PV08**  
SHT NO. 21 OF 62  
C.O.F. Project #PZ XX-XXXX

PLOTTED: Jun 28, 2021 - 4:37pm



**ADOT IMPROVEMENTS - PAVING & STORM**

239	4	EA	CONSTRUCT CONCRETE SIDEWALK RAMP PER ADOT STANDARD DRAWING C-05.30 ON 3 INCH THICK ABC.
252	503	SF	CONSTRUCT DRIVEWAY WITH SIDEWALK SETBACK PER ADOT STANDARD DRAWING C-05.20 ON 3 INCH THICK ABC.
520	1	EA	INSTALL 48" DIA. STORM DRAIN MANHOLE PER M.A.G. STD. DTL. 520 AND MANHOLE SHAFT PER M.A.G. STD. DTL. 522.
711	1,140	SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER ADOT SPECIFICATIONS SECTION 406 AND PER DETAIL '1' ON DWG DT03.
733	1	EA	CONSTRUCT TYPE "D" CATCH BASIN PER M.A.G. STD. DETAIL 533-1 ON 3 INCH THICK ABC, DUAL 3" WINGS
734	1,525	SY	MILL AND OVERLAY. MILLING OF ASPHALT CONCRETE SHALL CONFORM TO ADOT SPECS. MILLING SHALL BE PERFORMED TO A DEPTH OF 2" AS SHOWN PER PLANS. OVERLAY WITH 2" OF ASPHALT CONCRETE PER ADOT.
743	30	LF	INSTALL 18" DIA SMOOTH SRP (14 GA.) PER M.A.G. STANDARD DETAIL 510 AND SPEC. SECTION 621. TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601, 603 AND PER DETAIL 14 ON SHEET DT03.
753	2,181	SF	CONSTRUCT CONCRETE SIDEWALK PER ADOT STANDARD DRAWING C-05.20 AND PER ADOT SPECS SECTION 601.
754	622	LF	CONSTRUCT CURB AND GUTTER TYPE D PER ADOT STANDARD DRAWING C-05.10 ON 3 INCH THICK ABC.
755	1,317	LF	CONSTRUCT SINGLE CURB PER ADOT STANDARD DRAWING C-05.10 ON 3 INCH THICK ABC.
769	4	EA	CONSTRUCT MEDIAN NOSE TRANSITION PER M.A.G. STD. DTL. 223. AND PER ADOT STANDARD DRAWING C-05.40
770	2,706	SF	CONSTRUCT MEDIAN STAMPED CONCRETE PER ADOT STANDARD DRAWING C-05.40.

FLAGSTAFF  
ARIZONA

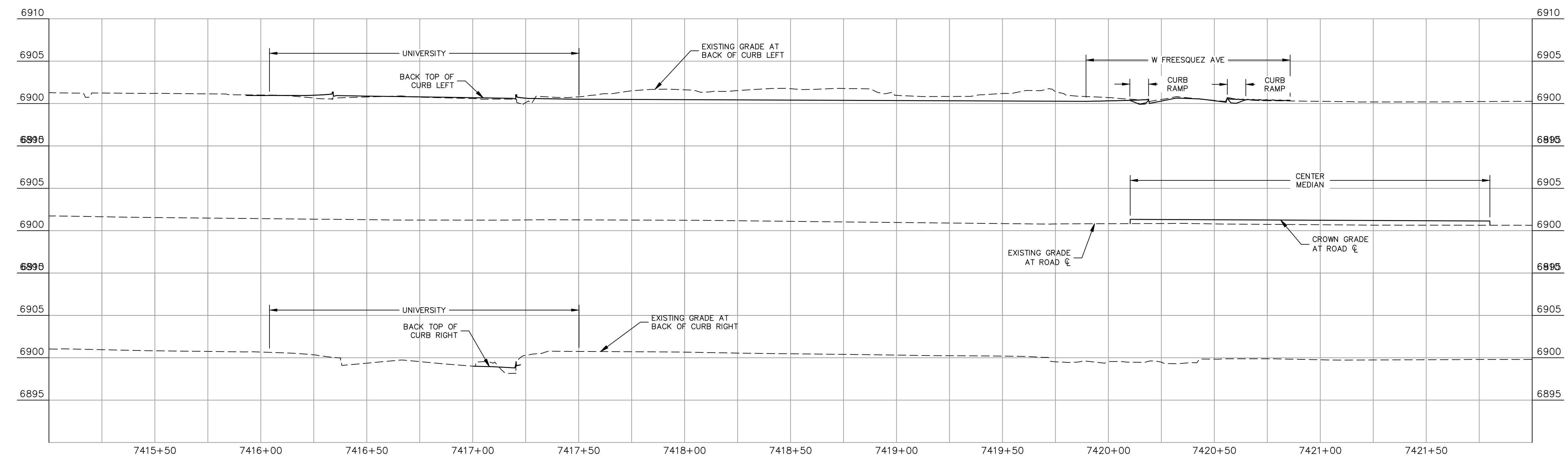
BEULAH & UNIVERSITY IMPROVEMENT PLANS

JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SJV  
DESIGN: SJV  
CHECKED: SCL

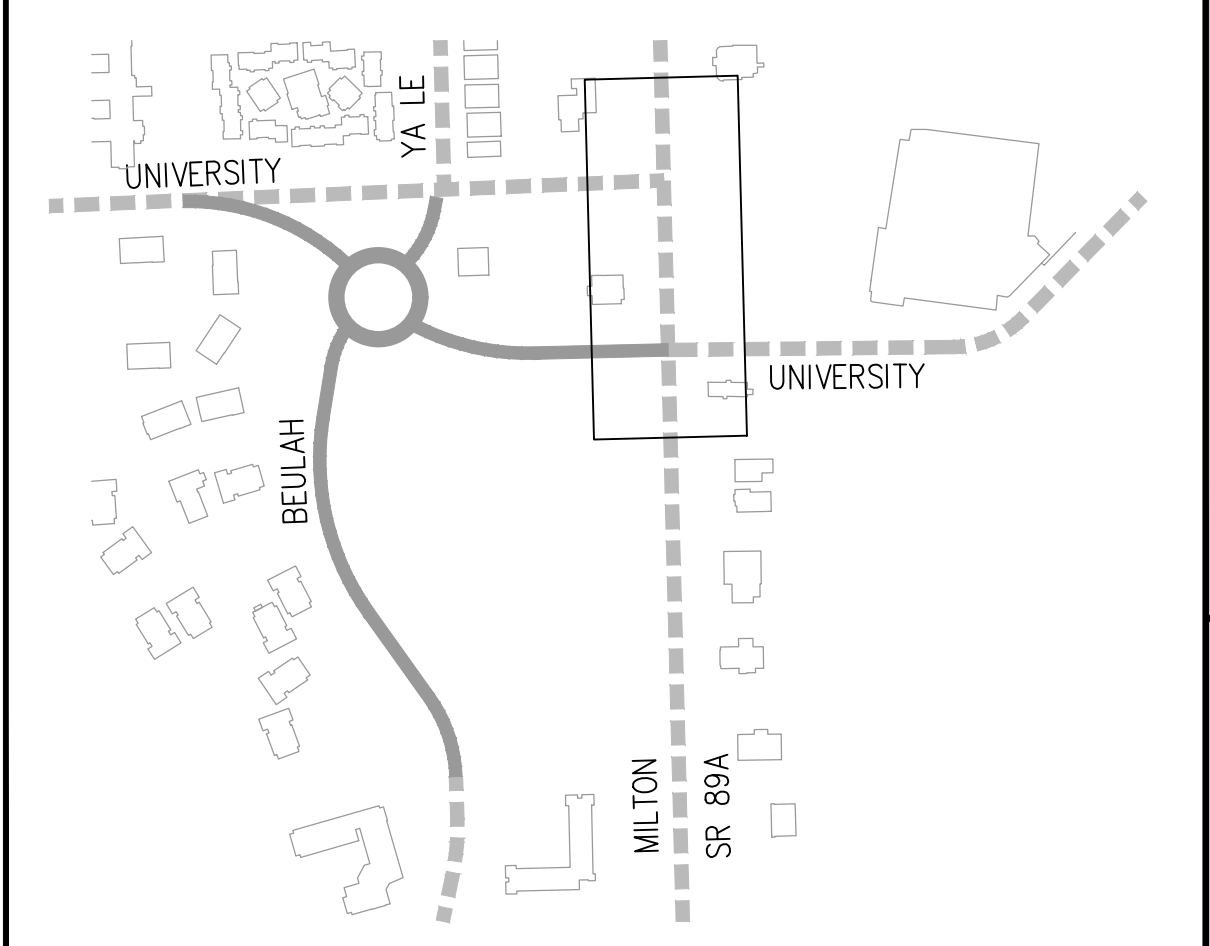
110 W. Dole Avenue  
Flagstaff AZ 86001  
928.774.8934  
928.774.8934 fax  
www.swi.coz.com

**SWI**  
Shephard Wesnitzer, Inc.

FILE: P:\2018\18121\Drawings\Construction\Plans\PAVING-STORM-FRESQUEZ AND MILTON.dwg SW-C30-2021



- GENERAL SHEET NOTES**
- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
  - VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
  - ALL SIDEWALK AND FUTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
  - ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



**60% PRELIMINARY**  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

NO.	DESCRIPTION	DATE	BY

Call at least two full working days before you begin excavation.  
**ARIZONA811**  
Arizona Blue Stakes, Inc. (928-5348)  
888-841-1111 or 1-800-514-1111 (928-5348)

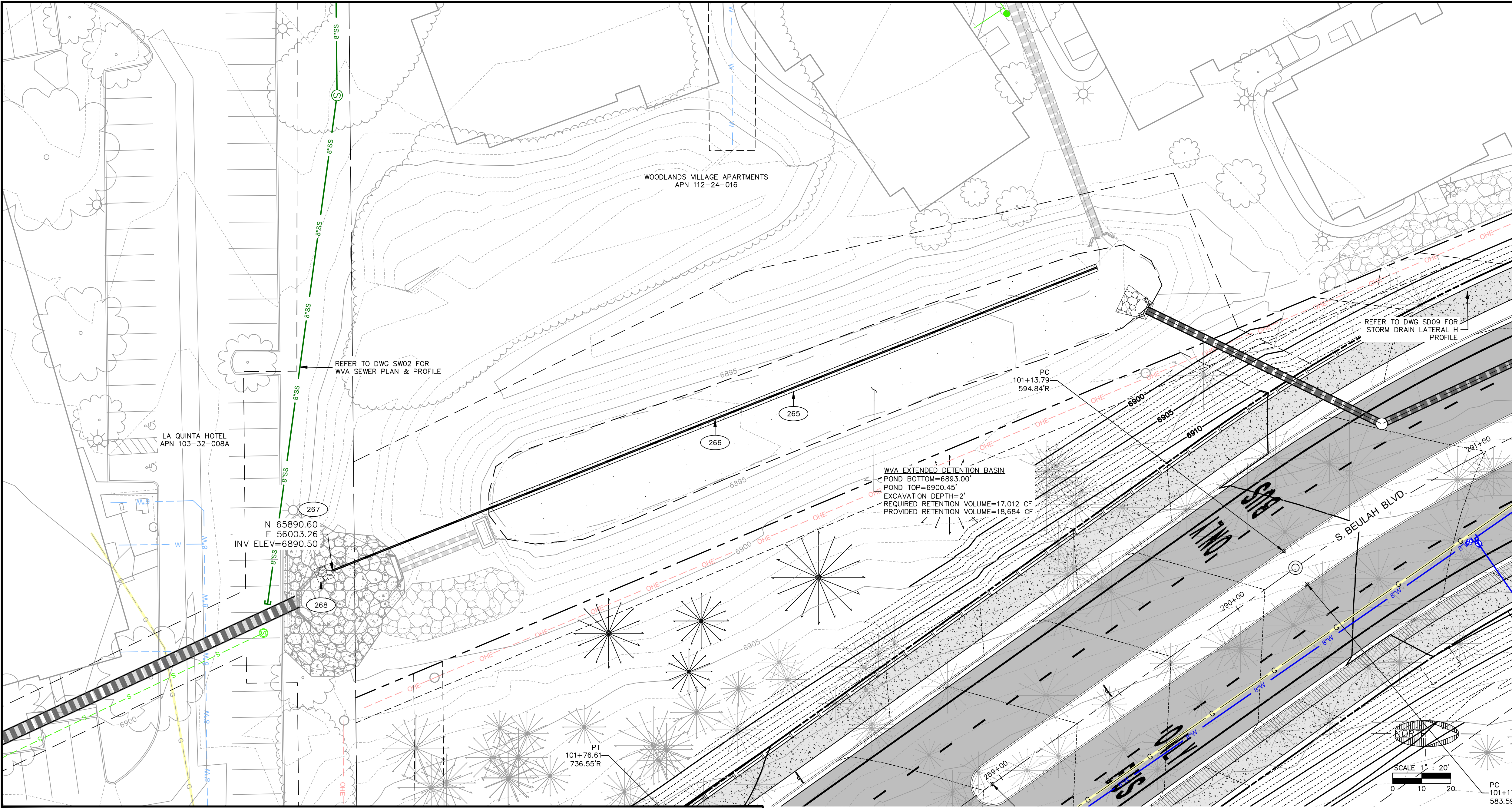
DRAWING NO. **PV09**

SHT NO. 22 OF 62

C.O.F. Project #PZ XX-XXXX

PLOTTED: Jun 28, 2021 - 5:18pm

FILE: P:\2018\18121\Drawings\Construction\Plans\PAVING-STORM-FRESQUEZ AND MILTON.dwg SW-C30-2021



**CITY IMPROVEMENTS - PAVING & STORM**

265	226	LF	INSTALL TRENCH SEDIMENT TRAP PER DETAIL 'X' ON SHEET G001.
266	283	LF	INSTALL 4" PERFORATED HDPE UNDERDRAIN PIPE PER DETAIL 'X' ON SHEET PV10.
267	1	EA	INSTALL 2" ORIFICE PER DETAIL 'X' ON SHEET PV10.
268	30	SF	INSTALL D50=6" RIPRAP PLACED 12" THICK OVER MIRAFI 140N FILTER FABRIC. GRADATION PER DETAIL 'O' ON SHEETPV10.

FLAGSTAFF  
ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

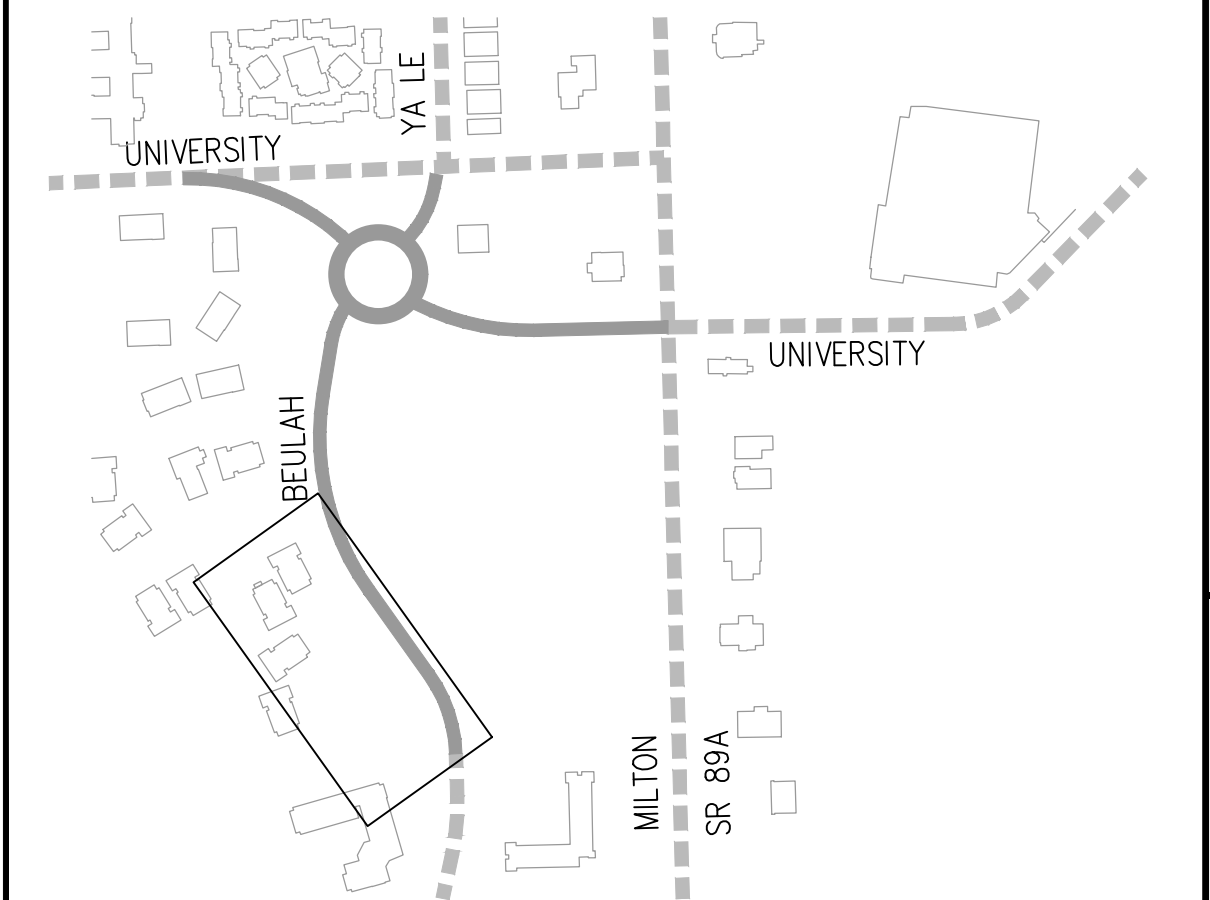
JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SJV  
DESIGN: SJV  
CHECKED: SCI

110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.774.0354  
928.774.8934 fax  
www.swi.org.com

**SWI**  
Shephard Wesnitzer, Inc.

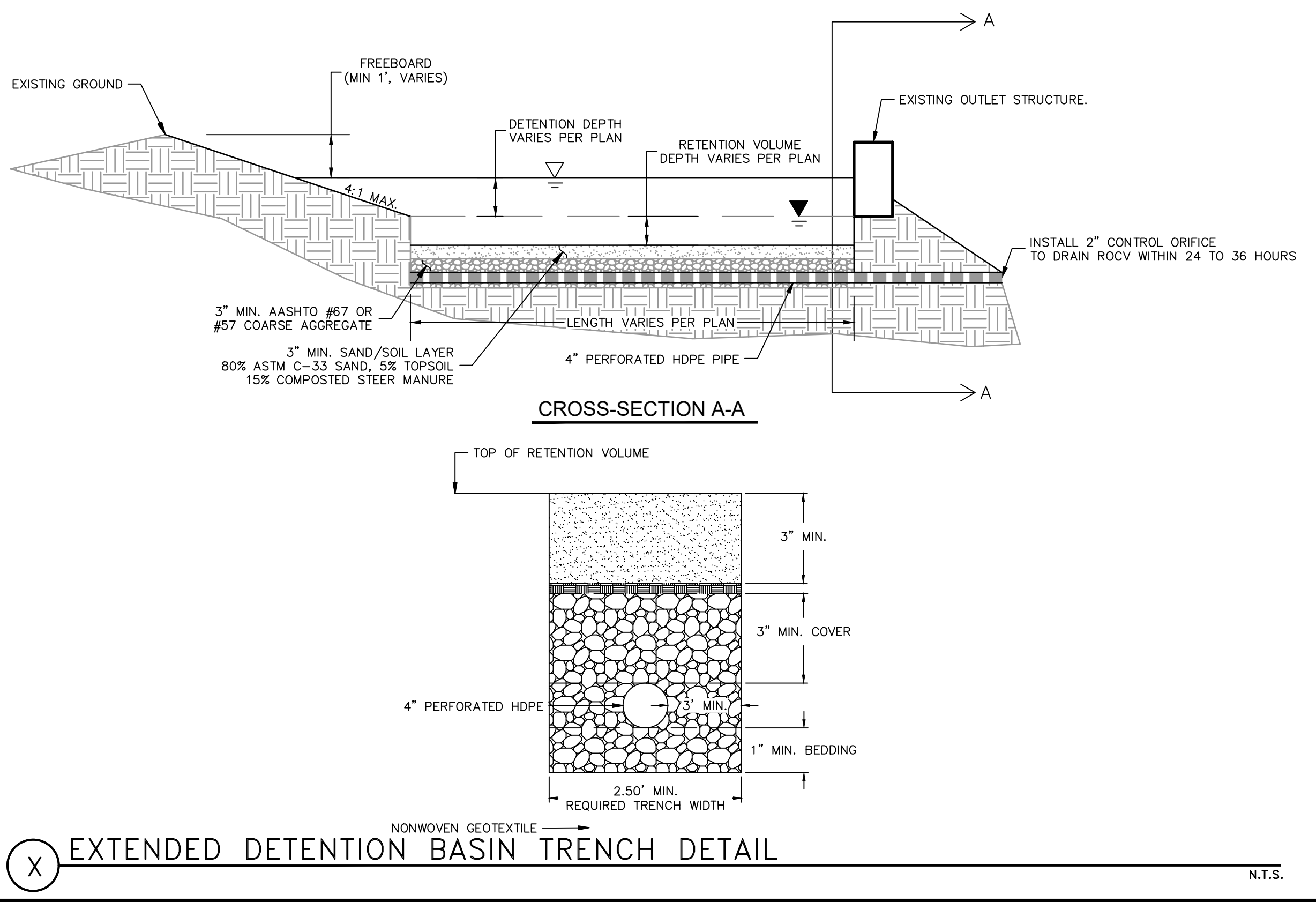
**GENERAL SHEET NOTES**

- HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
- VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
- ALL SIDEWALK AND FULTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
- ALL RADII LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



**60%  
PRELIMINARY**

NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING



NO.	DESCRIPTION	DATE	BY

Call at least two full working days before you begin excavation.

**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-5348)  
888-84-1111 or 1-800-514-1111

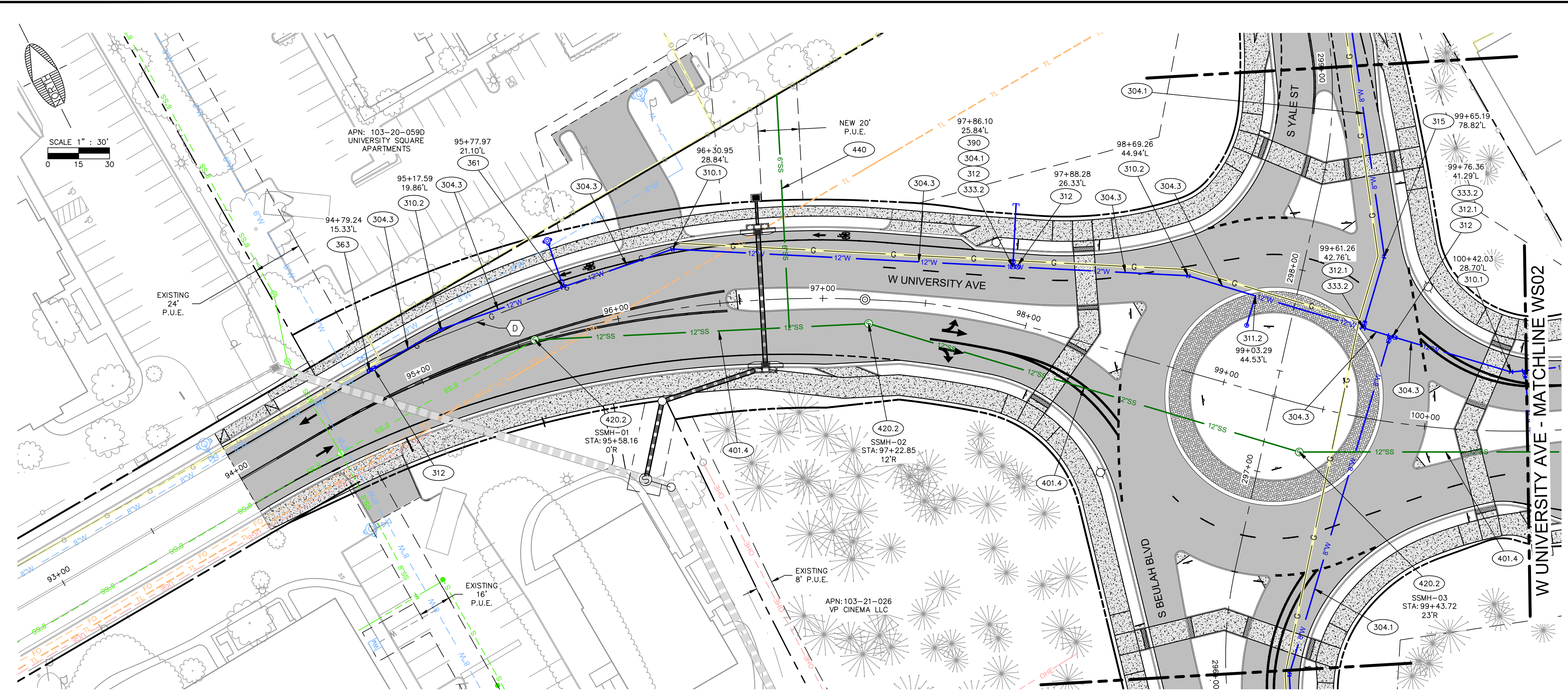
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SHT NO. 23 OF 62

C.O.F. Project #PZ XX-XXXX

PLOTTED: Jun 28, 2021 - 4:36pm

FILE: P:\2018\18121\Drawings\Construction\Plans\WATER-SEWER.dwg SW-C3D-2021



**CITY IMPROVEMENTS - WATER & SEWER**

304.1	330	LF	INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
304.3	581	LF	INSTALL 12" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
310.1	2	EA	INSTALL 12" 22.5 DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
310.2	2	EA	INSTALL 12" 11.25 DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
311.2	1	EA	INSTALL 2" AIR RELEASE VALVE PER C.O.F. STD. DTL. 9-03-100 ON DWG DT01.
312	2	EA	INSTALL 12" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER M.A.G. STD. DTL. 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER M.A.G. STD. DTL. 301 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
312.1	3	EA	INSTALL 8" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER M.A.G. STD. DTL. 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER M.A.G. STD. DTL. 301 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
315	1	EA	INSTALL 8" 22.5 DEG. HORIZONTAL BEND DIP CLASS 250, WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
333.2	3	EA	INSTALL 12"x8" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380. CONNECT EXISTING 8" WATERLINE TO NEW TEE.
361	1	EA	INSTALL FIRE HYDRANT ASSEMBLY PER M.A.G. STD. DTL. 360-3 EXCLUDING THE FIRE HYDRANT. CONNECT NEW 6" PIPE TO EXISTING FIRE HYDRANT. SET NEW VALVE, BOX AND COVER TO FINISH GRADE PER COF STD DTL 9-03-060.
363	1	EA	INSTALL 12"x8" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380. CONNECT EXISTING 8" WATERLINE TO NEW TEE.
390	1	EA	INSTALL END OF LINE TEMPORARY BLOWOFF PER C.O.F. STD. DTL. 9-03-053 ON DWG DT01.
401.4	490	LF	INSTALL 12" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER ADOT SPECS. WITHIN ADOT RIGHT-OF-WAY TRENCH EXCAVATION COMPACTION PER ADOT STD. DTL. C-07.06 TYPE 'G', SLURRY BACKFILL PER ADOT STD. SPEC 501, PIPE BEDDING PER ADOT STD. SPEC 501-3.02.
420.2	3	EA	INSTALL 60" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-0002-0007. INSTALL 30" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. STD. DTL. 422.
440	1	EA	INSTALL 6" SEWER SERVICE AND SEWER CONNECTION PER M.A.G. STD. DTL. 440 WITH 'S' BRANDED INTO TOP OF CURB AT SERVICE LOCATION.

FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

WATER & SEWER-UNIVERSITY (1)

JOB NO: 18121  
 DATE: JUN 21  
 SCALE: AS SHOWN  
 DRAWN: SLV  
 DESIGNED: SLV  
 CHECKED: SCI

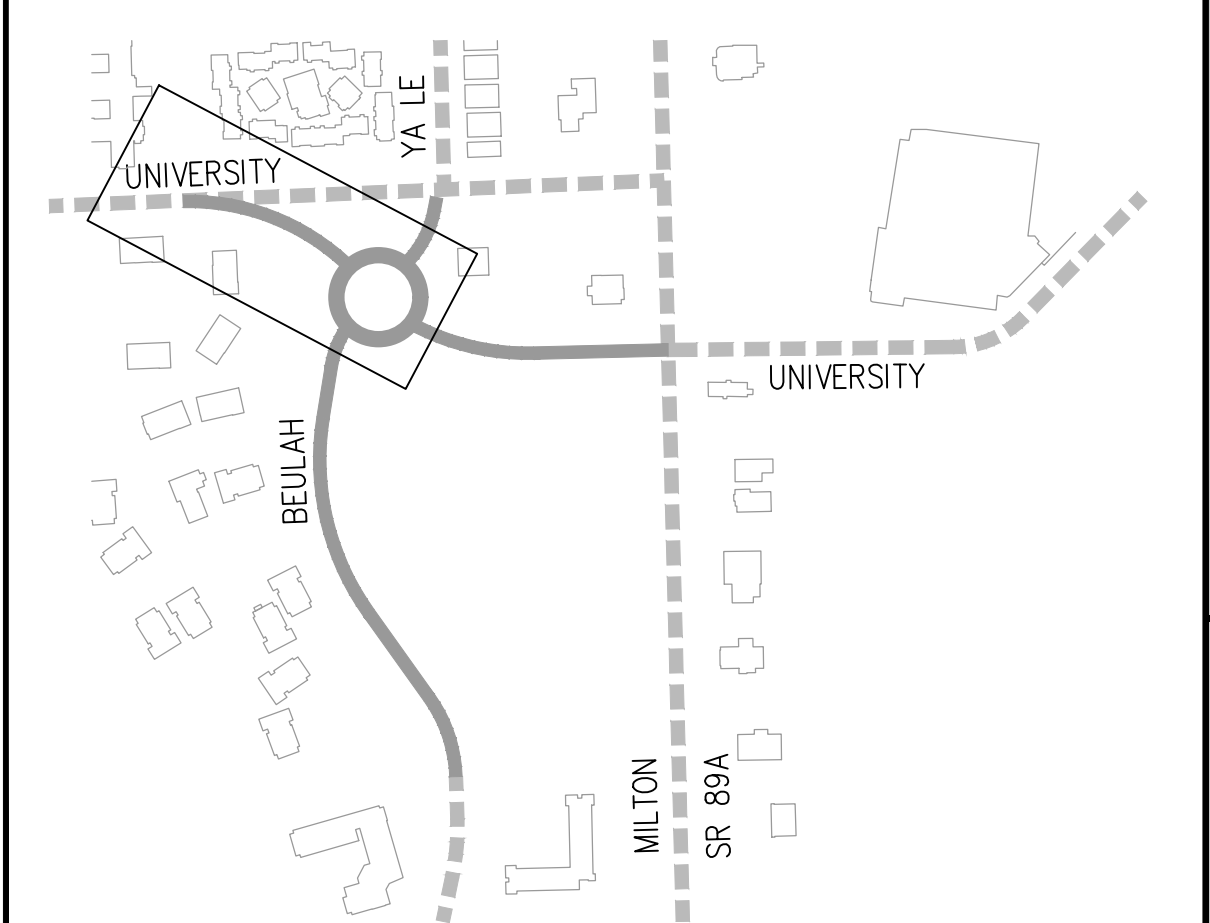
110 W. Dole Avenue  
 Flagstaff, AZ 86001  
 928.773.0354  
 928.774.8934 fax  
 www.swi.az.com

Shephard Wesnitzer, Inc.

**NON-CITY DRY UTILITY CONFLICTS**

- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
- (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
- (C) QWEST RELOCATION AND DESIGN BY OTHERS
- (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

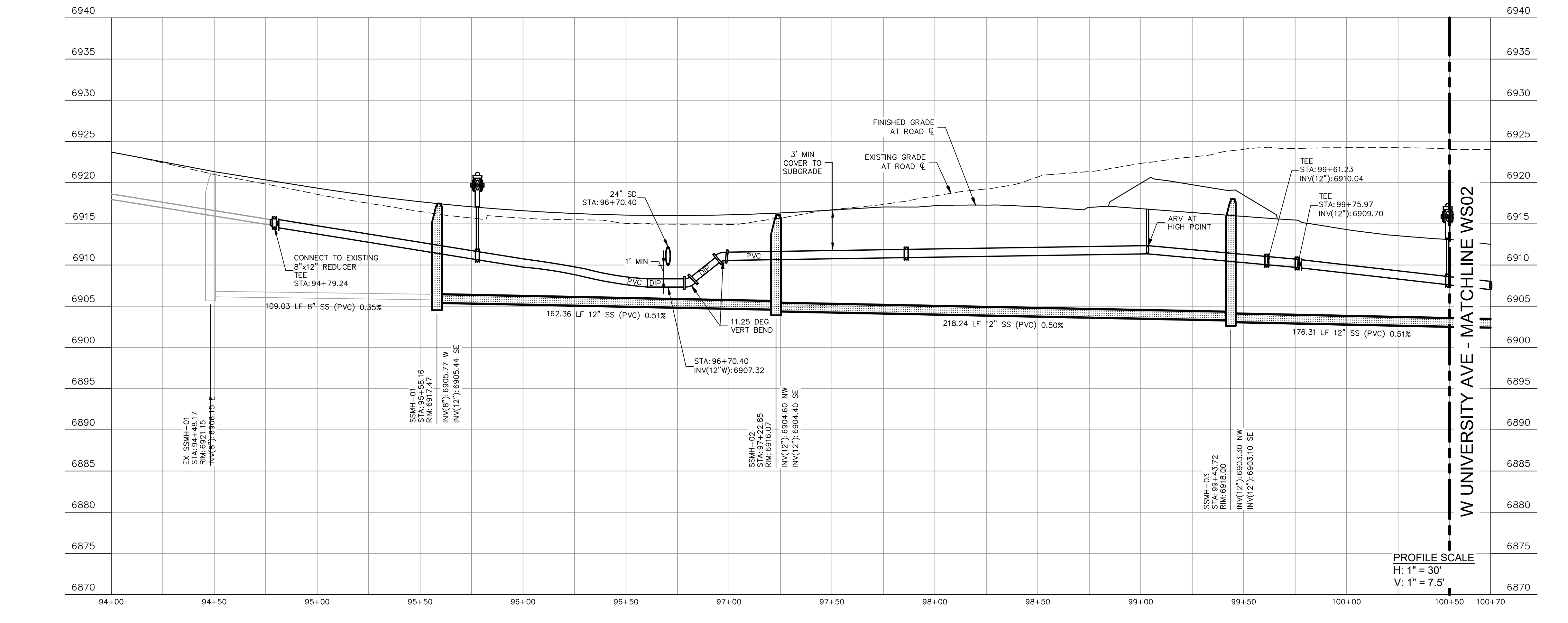
**GENERAL NOTE**  
 WATER LINES SHALL BE INSTALLED PER CITY OF FLAGSTAFF STANDARD DETAIL 09-01-010 AND HAVE A MINIMUM OF 3' OF COVER FROM THE SUBGRADE ELEVATION.



**60% PRELIMINARY**

NOT FOR CONSTRUCTION, BIDDING OR RECORDING

C.O.F. Project #PZ XX-XXXX



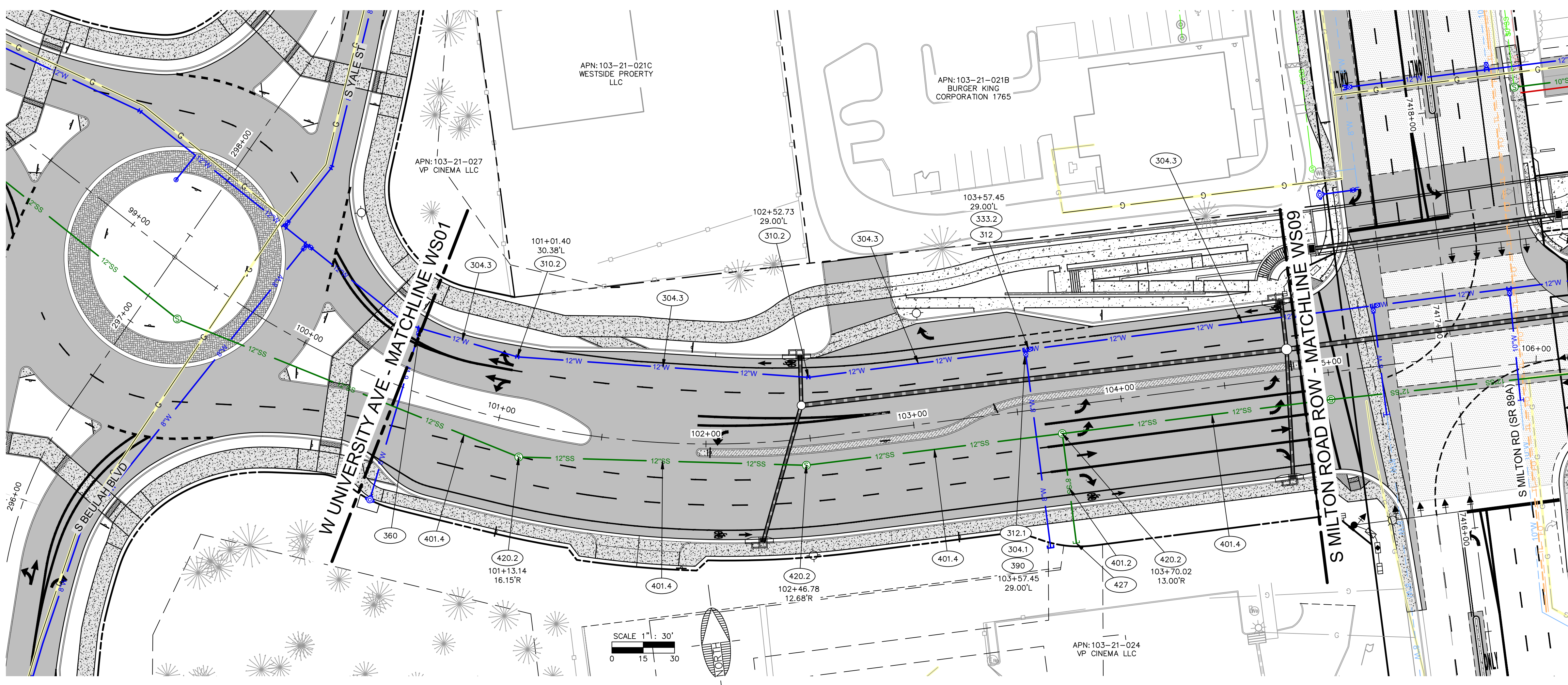
NO.	DESCRIPTION	DATE	BY

DRAWING NO. **WS01**

SHT NO. 24 OF 62



PLOTTED: Jun 28, 2021 - 4:38pm



**CITY IMPROVEMENTS - WATER & SEWER**

- (304.1) 96 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (304.3) 374 LF INSTALL 12" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (310.2) 2 EA INSTALL 12" DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (312) 1 EA INSTALL 12" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (312.1) 1 EA INSTALL 8" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (333.2) 1 EA INSTALL 12"x8" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (360) 1 EA INSTALL FIRE HYDRANT ASSEMBLY PER C.O.F. STD. DTL. 13-03-011. THRUST BLOCK AND ALL APPURTENANCES. INSTALL A TEE WITH THE VALVE FLANGED TO THE TEE. SET NEW VALVE, BOX AND COVER TO FINISH GRADE PER COF STD DTL 9-03-060.
- (390) 1 EA INSTALL END OF LINE TEMPORARY BLOWOFF PER C.O.F. STD. DTL. 9-03-053 ON DWG DT01.
- (401.2) 53 LF INSTALL 8" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER M.A.G. SPECS. 601 & 615 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG SEWER LINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING, AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (401.4) 443 LF INSTALL 12" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER ADOT SPECS. WITHIN ADOT RIGHT-OF-WAY TRENCH EXCAVATION COMPACTION PER ADOT STD. DTL. C-07-06 TYPE 'G', SLURRY BACKFILL PER ADOT STD. SPEC 501, PIPE BEDDING PER ADOT STD. SPEC 501-3.02.
- (420.2) 3 EA INSTALL 60" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-0002-0007. INSTALL 30" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. DTL. 422.
- (427) 1 EA INSTALL CAP AND BLOCK ON SANITARY SEWER LINE PER M.A.G. STD DTL 427, FOR FUTURE USE.

FLAGSTAFF ARIZONA

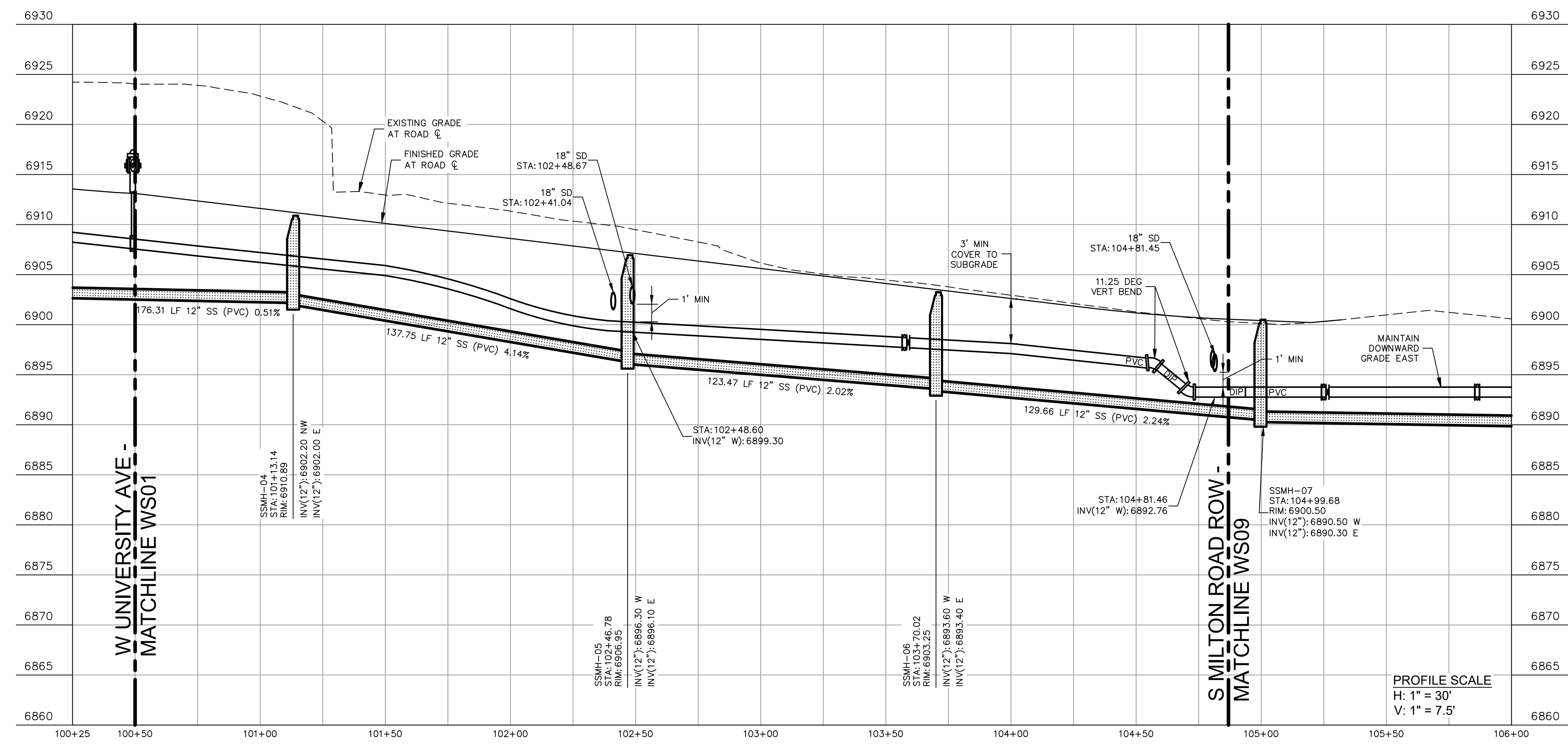
BEULAH & UNIVERSITY IMPROVEMENT PLANS

WATER & SEWER-UNIVERSITY (2)

JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SLV  
DESIGN: SLV  
CHECKED: SCJ

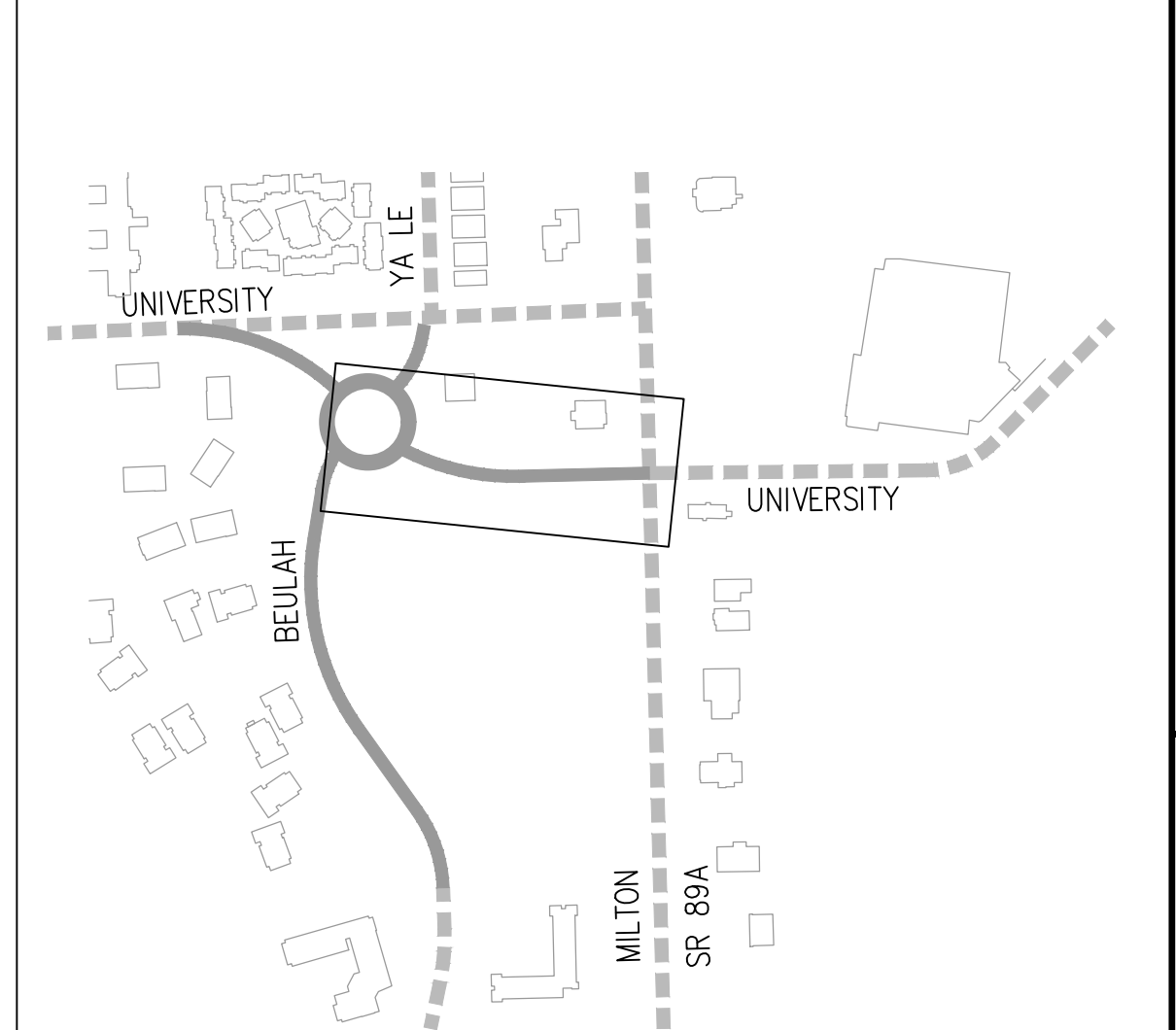
110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.773.0354  
928.774.8934 fax  
www.swi.coz.com

FILE: P:\2018\18121\Drawings\Construction\Plans\WATER-SEWER.dwg SW-C3D-2021



- NON-CITY DRY UTILITY CONFLICTS**
- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
  - (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
  - (C) QWEST RELOCATION AND DESIGN BY OTHERS
  - (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

**GENERAL NOTE**  
WATER LINES SHALL BE INSTALLED PER CITY OF FLAGSTAFF STANDARD DETAIL 09-01-010 AND HAVE A MINIMUM OF 3' OF COVER FROM THE SUBGRADE ELEVATION.



**60% PRELIMINARY**  
NOT FOR CONSTRUCTION, BIDDING OR RECORDING

Shephard Wesnitzer, Inc.

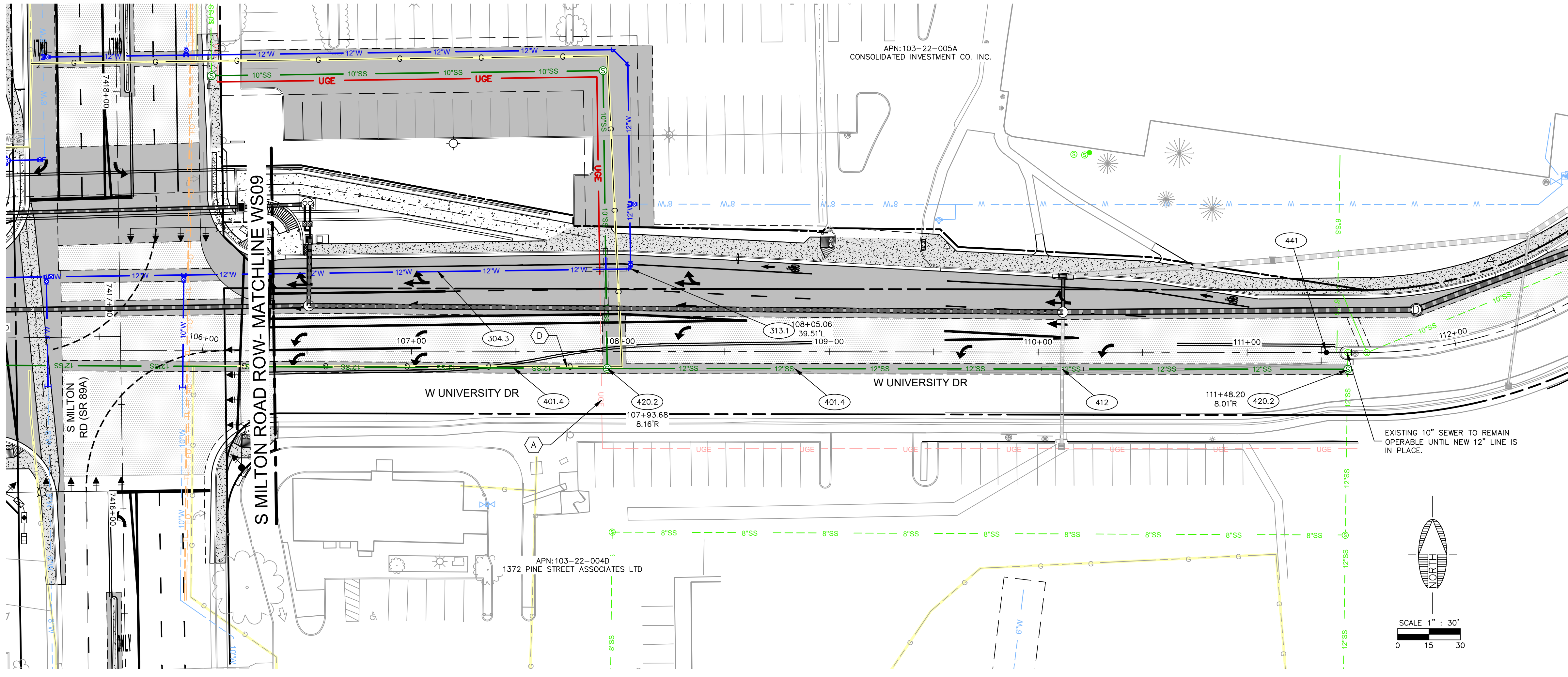
ARIZONA 811  
Arizona Blue Stakes, Inc.

NO.	DESCRIPTION	DATE	BY

DRAWING NO. **WS02**

SHT NO. 25 OF 62

C.O.F. Project #PZ XX-XXXX

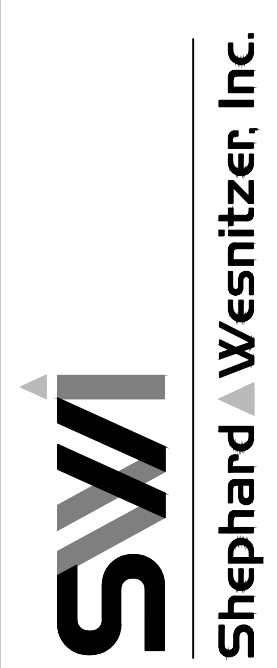


**CITY IMPROVEMENTS - WATER & SEWER**

- 304.3 171 LF INSTALL 12" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-01-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTLs. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- 313.1 1 EA INSTALL 12", 90 DEG. HORIZONTAL BEND DIP CLASS 250, WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- 401.4 514 LF INSTALL 12" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER ADOT SPECS. WITHIN ADOT RIGHT-OF-WAY TRENCH EXCAVATION COMPACTION PER ADOT STD. DTL. C-07.06 TYPE 'G', SLURRY BACKFILL PER ADOT STD. SPEC 501, PIPE BEDDING PER ADOT STD. SPEC 501-3.02.
- 412 1 EA INSTALL PIPE CROSSING ENCASUREMENT PER M.A.G. STD. DTL. 404-3.
- 420.2 2 EA INSTALL 60" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-0002-0007. INSTALL 30" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. DTL. 422.
- 441 1 EA INSTALL SEWER CLEANOUT PER M.A.G. STD. DTL. 441

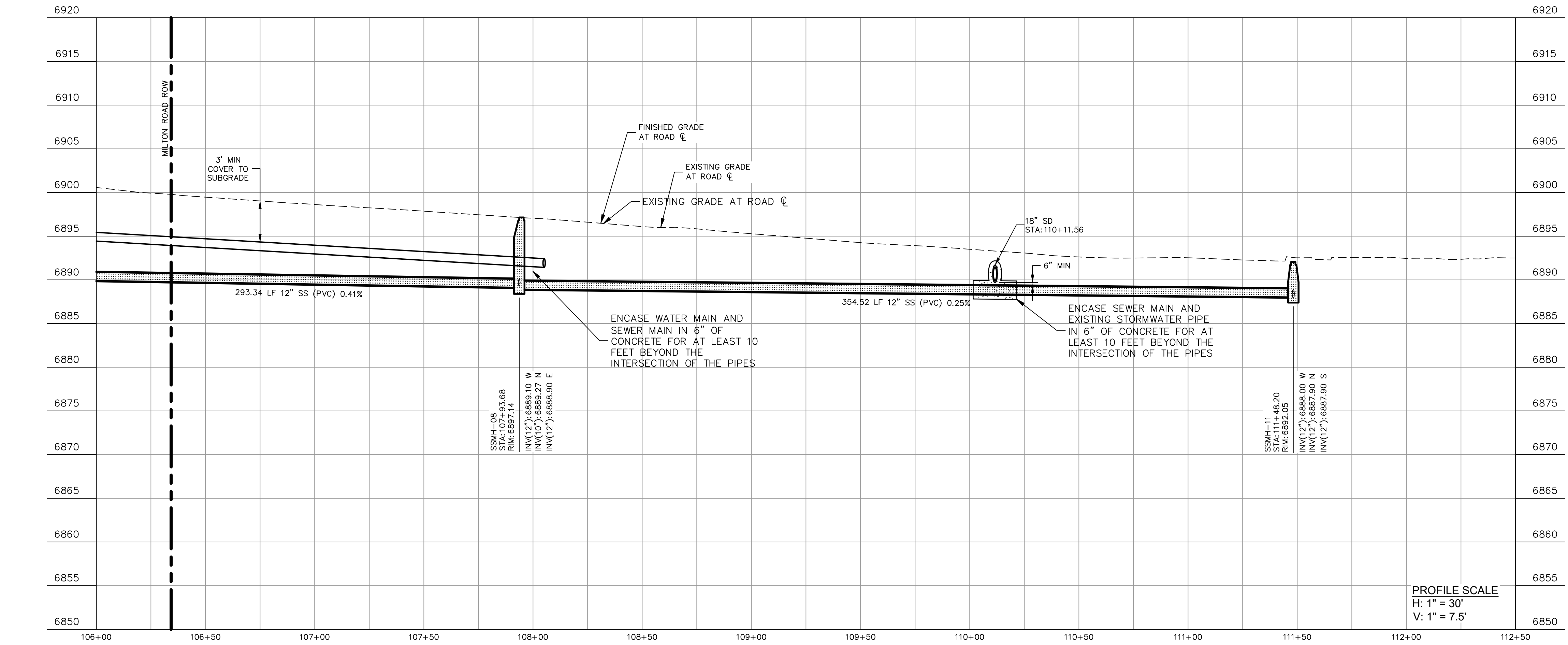
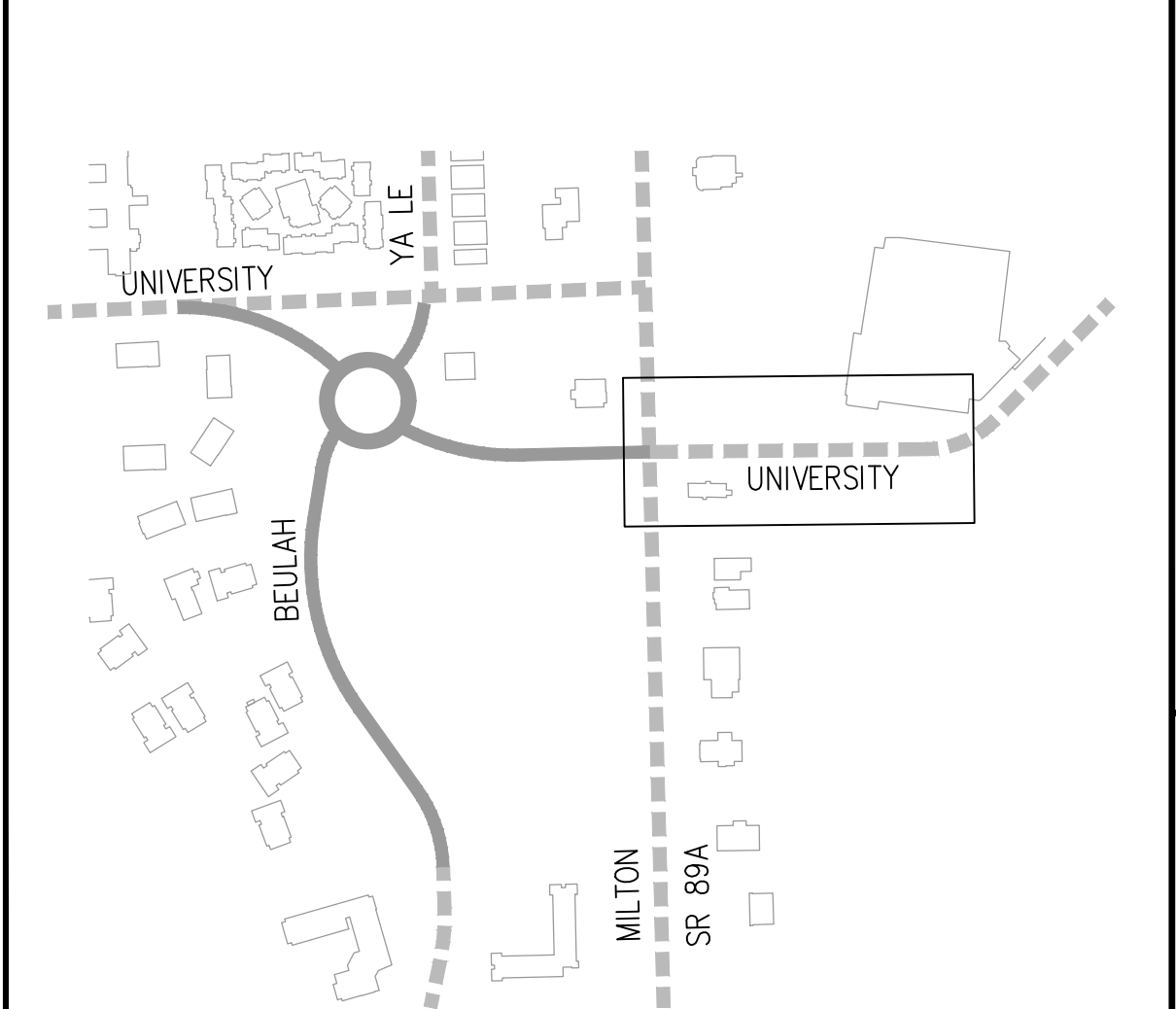
JOB NO:	18121
DATE:	JUN 21
SCALE:	AS SHOWN
DRAWN:	SLV
DESIGN:	SLV
CHECKED:	SCI

110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.774.8354  
928.774.8334 fax  
www.swi.az.com



- NON-CITY DRY UTILITY CONFLICTS**
- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
  - (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
  - (C) QWEST RELOCATION AND DESIGN BY OTHERS
  - (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

**GENERAL NOTE**  
WATER LINES SHALL BE INSTALLED PER CITY OF FLAGSTAFF STANDARD DETAIL 09-01-010 AND HAVE A MINIMUM OF 3' OF COVER FROM THE SUBGRADE ELEVATION.



PROFILE SCALE  
H: 1" = 30'  
V: 1" = 7.5'

**60% PRELIMINARY**  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

NO.	DESCRIPTION	DATE	BY

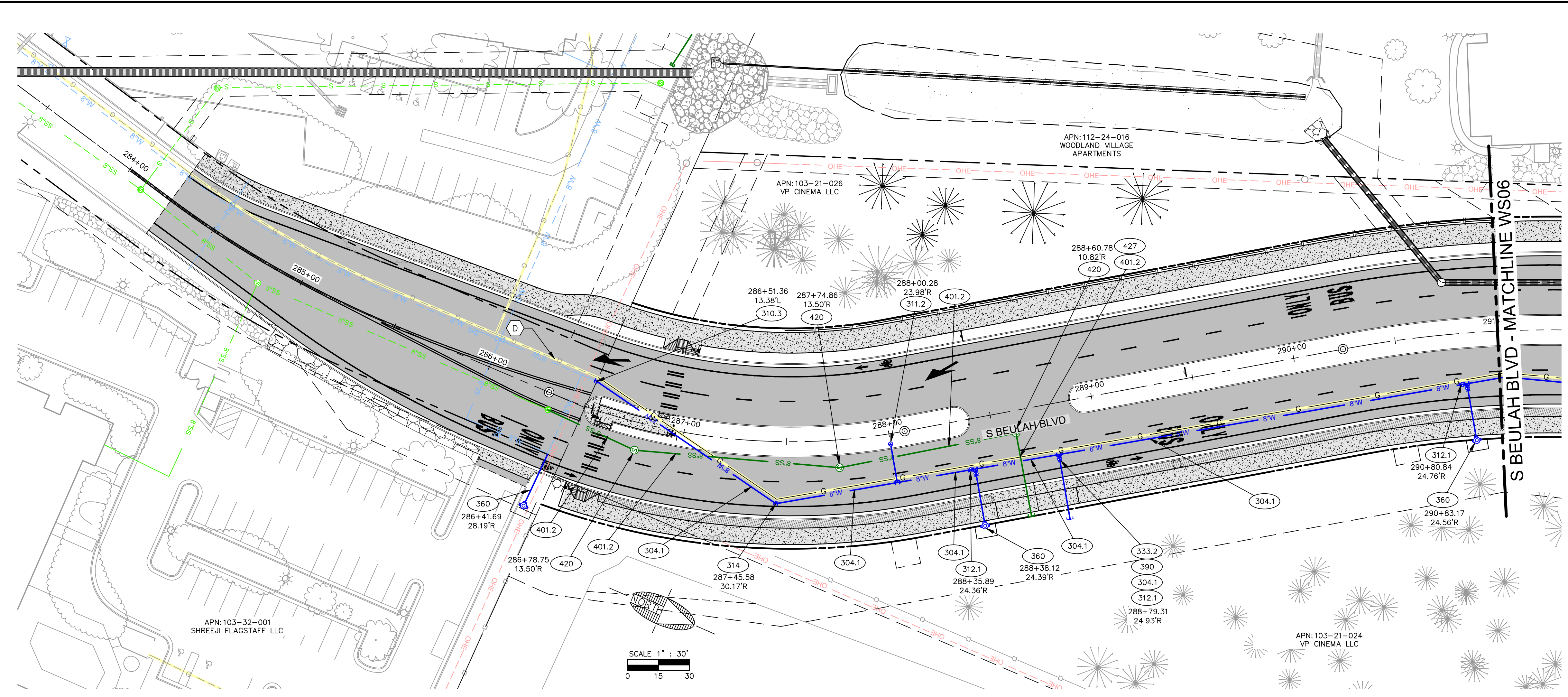
Call at least two full working days before you begin excavation.

**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-534-8111)

DRAWING NO. **WS03**

SHT NO. 26 OF 62

C.O.F. Project #PZ XX-XXXX



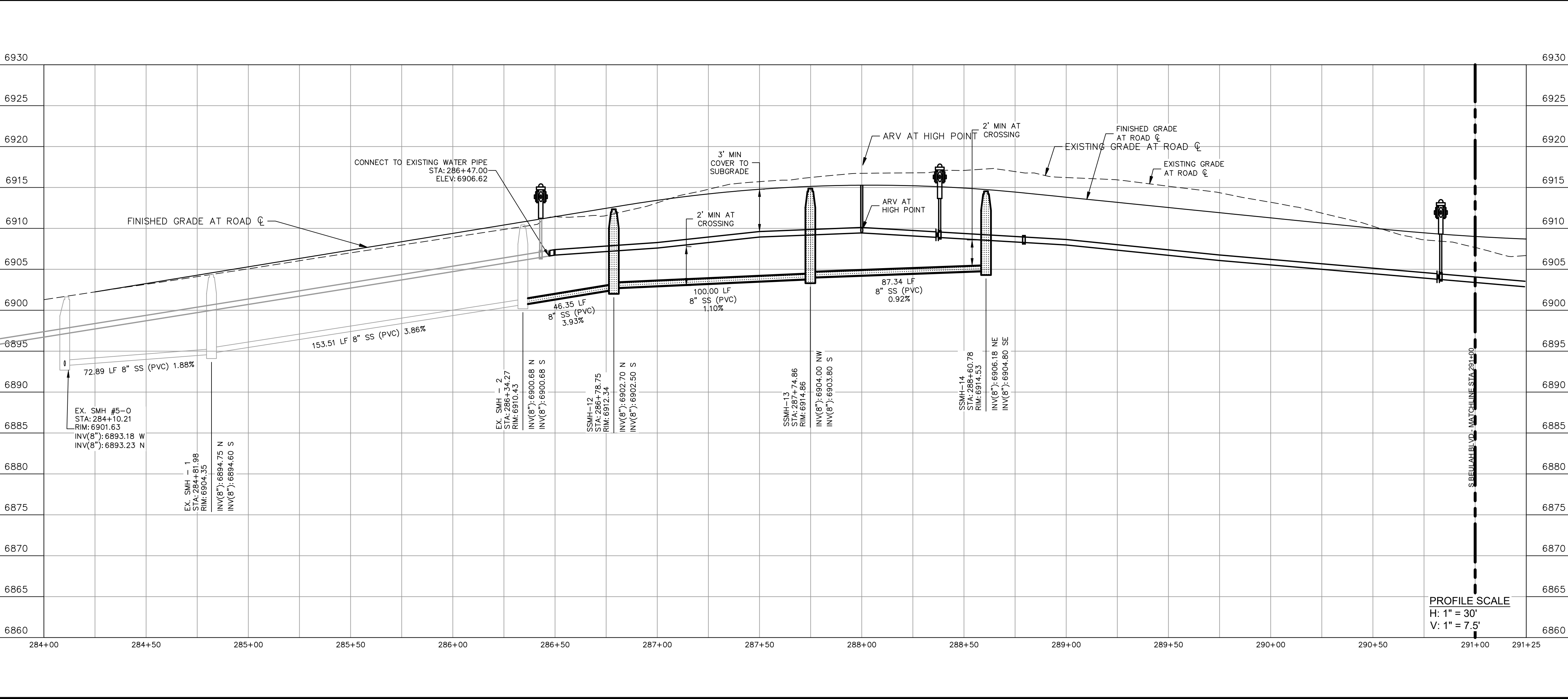
**CITY IMPROVEMENTS - WATER & SEWER**

- (304.1) 462 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (310.3) 1 EA INSTALL 8", 11.25 DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (314) 1 EA INSTALL 8", 45 DEG. AND 22.5 DEG. HORIZONTAL BENDS DIP CLASS 250, WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (311.2) 1 EA INSTALL 2" AIR RELEASE VALVE PER C.O.F. STD. DTL. 9-03-100 ON DWG DT01.
- (312.1) 3 EA INSTALL 8" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-52 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (333.2) 1 EA INSTALL 12"x8" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (360) 3 EA INSTALL FIRE HYDRANT ASSEMBLY PER C.O.F. STD. DTL. 13-03-011. THRUST BLOCK AND ALL APPURTENANCES. INSTALL A TEE WITH THE VALVE FLANGED TO THE TEE. SET NEW VALVE, BOX AND COVER TO FINISH GRADE PER COF STD DTL 9-03-060.
- (390) 1 EA INSTALL END OF LINE TEMPORARY BLOWOFF PER C.O.F. STD. DTL. 9-03-053 ON DWG DT01.
- (401.2) 275 LF INSTALL 8" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER M.A.G. SPECS. 601 & 615 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG SEWER LINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING, AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (420) 3 EA INSTALL 48" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-002-0007. INSTALL 24" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. DTL. 422.
- (427) 1 EA INSTALL CAP AND BLOCK ON SANITARY SEWER LINE PER M.A.G. STD DTL 427, FOR FUTURE USE.

JOB NO:	18121
DATE:	JUN 21
SCALE:	AS SHOWN
DRAWN:	SLV
DESIGN:	SLV
CHECKED:	SCI

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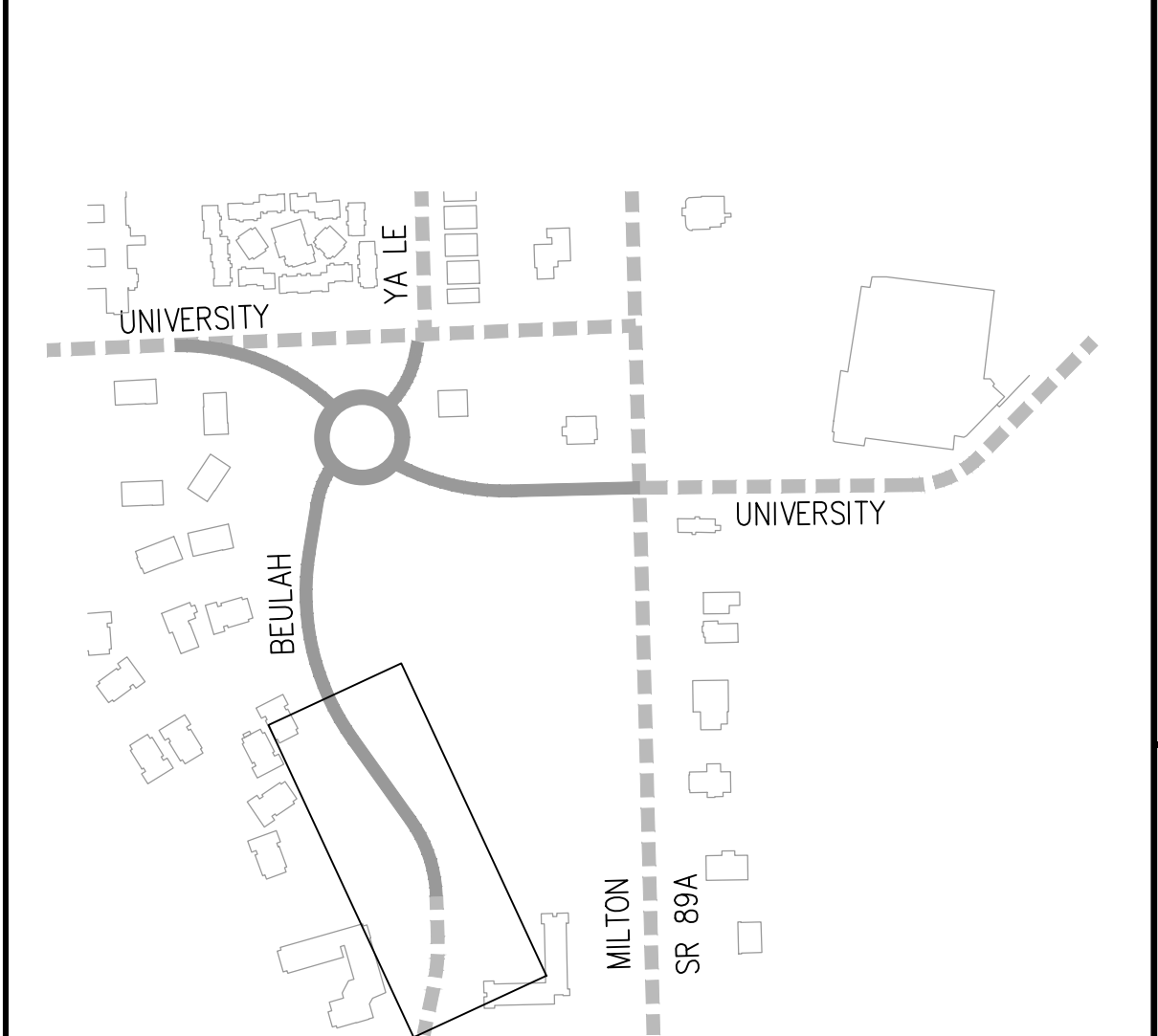
**SWI**  
Shephard Wesnitzer, Inc.



**NON-CITY DRY UTILITY CONFLICTS**

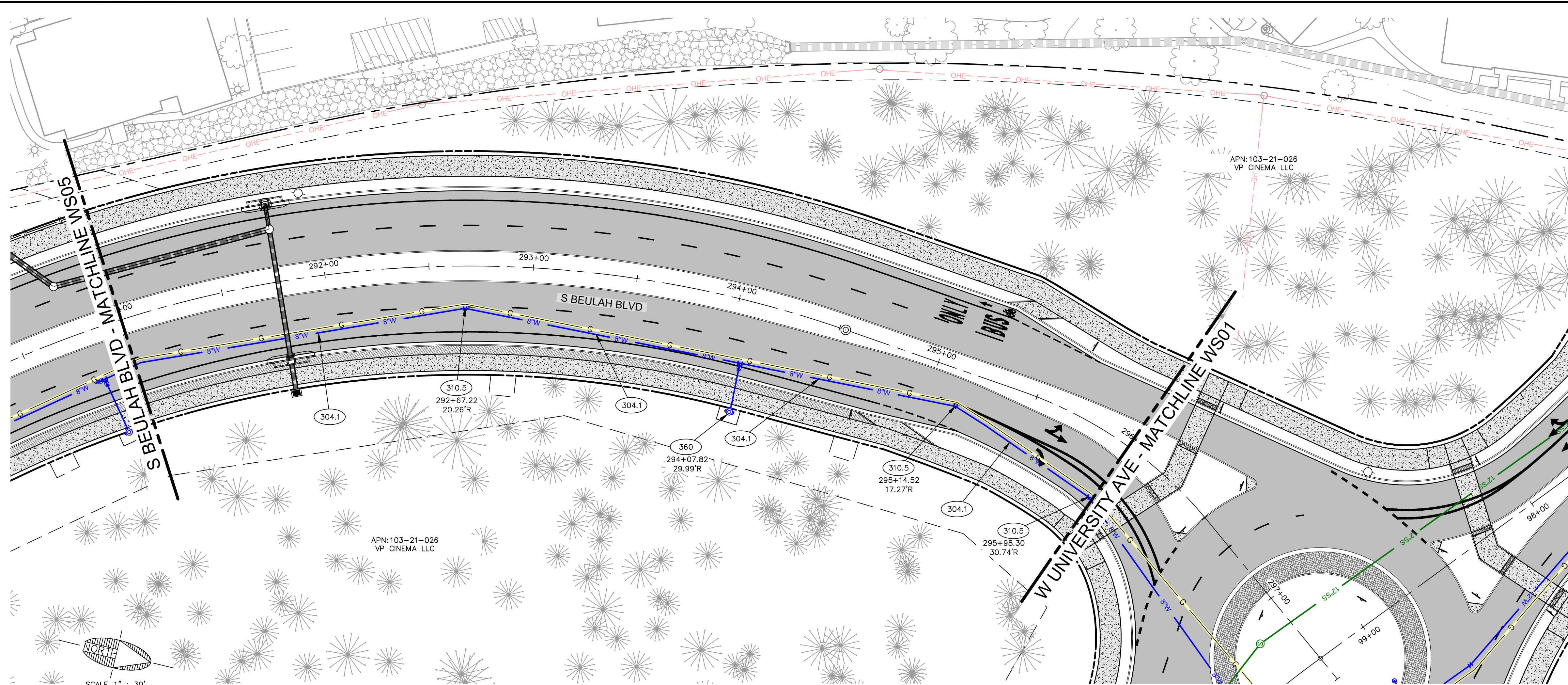
- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
- (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
- (C) QWEST RELOCATION AND DESIGN BY OTHERS
- (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

**GENERAL NOTE**  
WATER LINES SHALL BE INSTALLED PER CITY OF FLAGSTAFF STANDARD DETAIL 09-01-010 AND HAVE A MINIMUM OF 3' OF COVER FROM THE SUBGRADE ELEVATION.



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NO.	DESCRIPTION	DATE	BY



**CITY IMPROVEMENTS - WATER & SEWER**

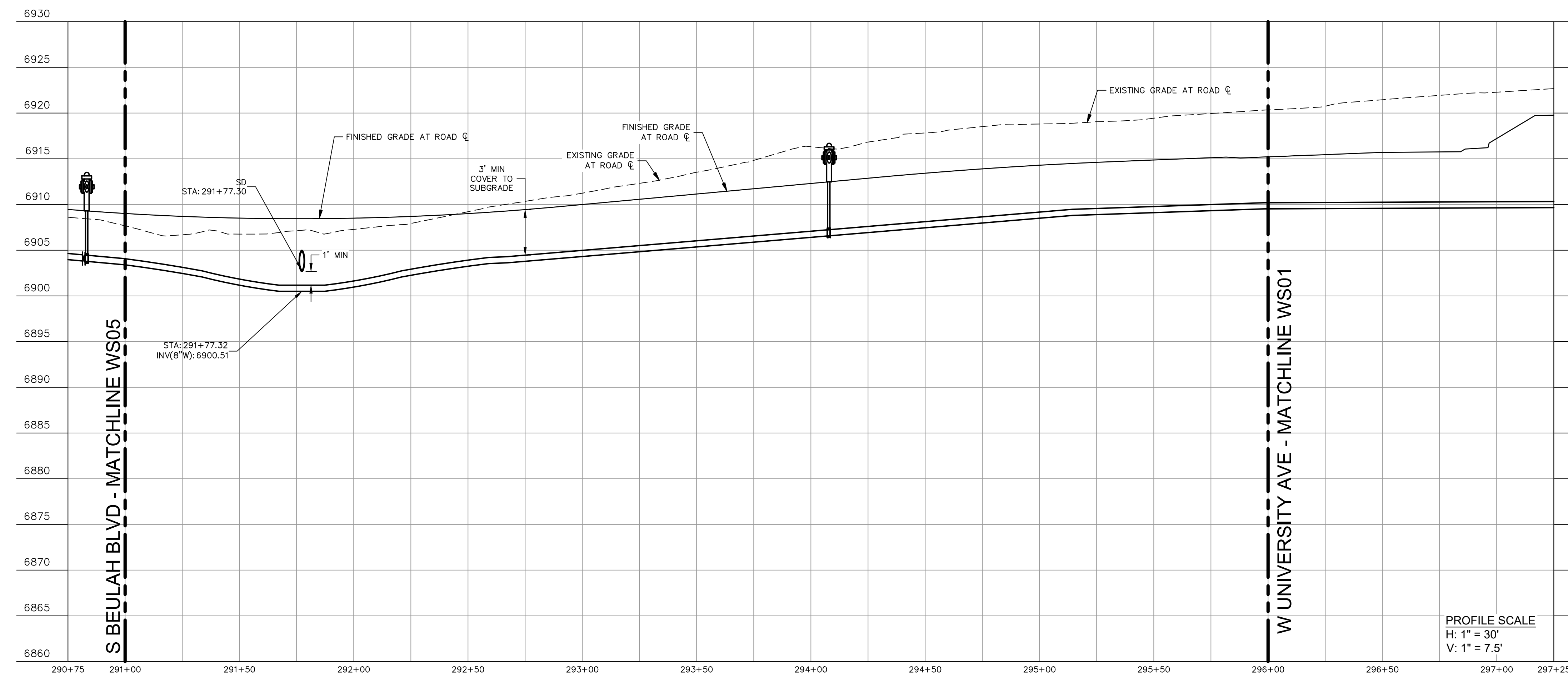
- 304.1 479 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- 310.5 3 EA INSTALL 8", 22.5 DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- 360 1 EA INSTALL FIRE HYDRANT ASSEMBLY PER C.O.F. STD. DTL. 13-03-011. THRUST BLOCK AND ALL APPURTENANCES. INSTALL A TEE WITH THE VALVE FLANGED TO THE TEE. SET NEW VALVE, BOX AND COVER TO FINISH GRADE PER COF STD DTL 9-03-060.

JOB NO: 18121  
 DATE: JUN 21  
 SCALE: AS SHOWN  
 DRAWN: SJV  
 DESIGN: SJV  
 CHECKED: SCI

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BEULAH & UNIVERSITY IMPROVEMENT PLANS  
**WATER & SEWER-BEULAH (6)**

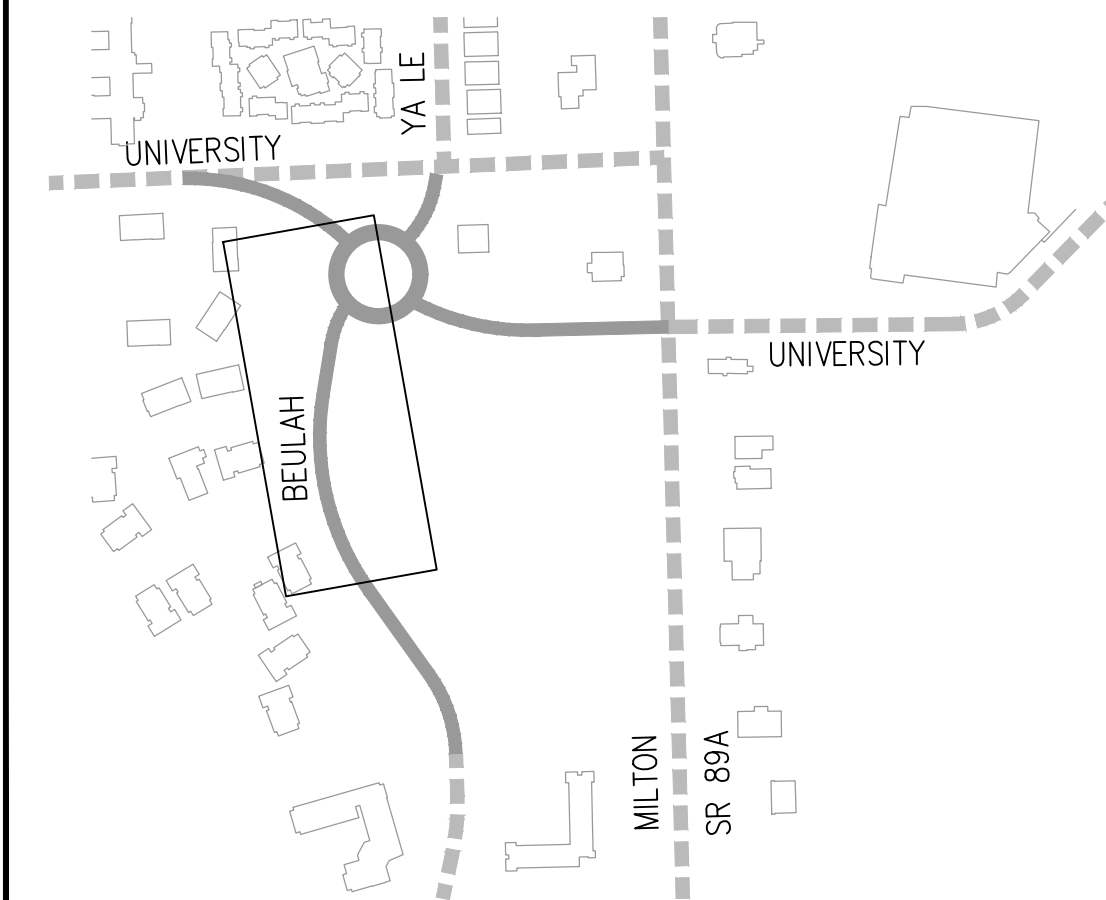
FLAGSTAFF ARIZONA



**NON-CITY DRY UTILITY CONFLICTS**

- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
- (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
- (C) QWEST RELOCATION AND DESIGN BY OTHERS
- (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

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**SWI**  
 Shephard Wesnitzer, Inc.

NO.	DESCRIPTION	DATE	BY

REVISIONS

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 Arizona Blue Stakes, Inc.  
 Call at least two full working days before you begin excavation.  
 888-841-1111 or 1-800-514-1111 (828-5348)

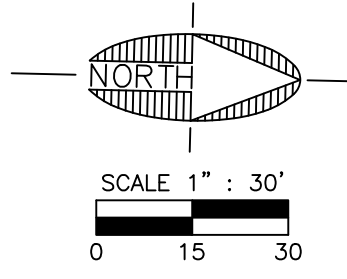
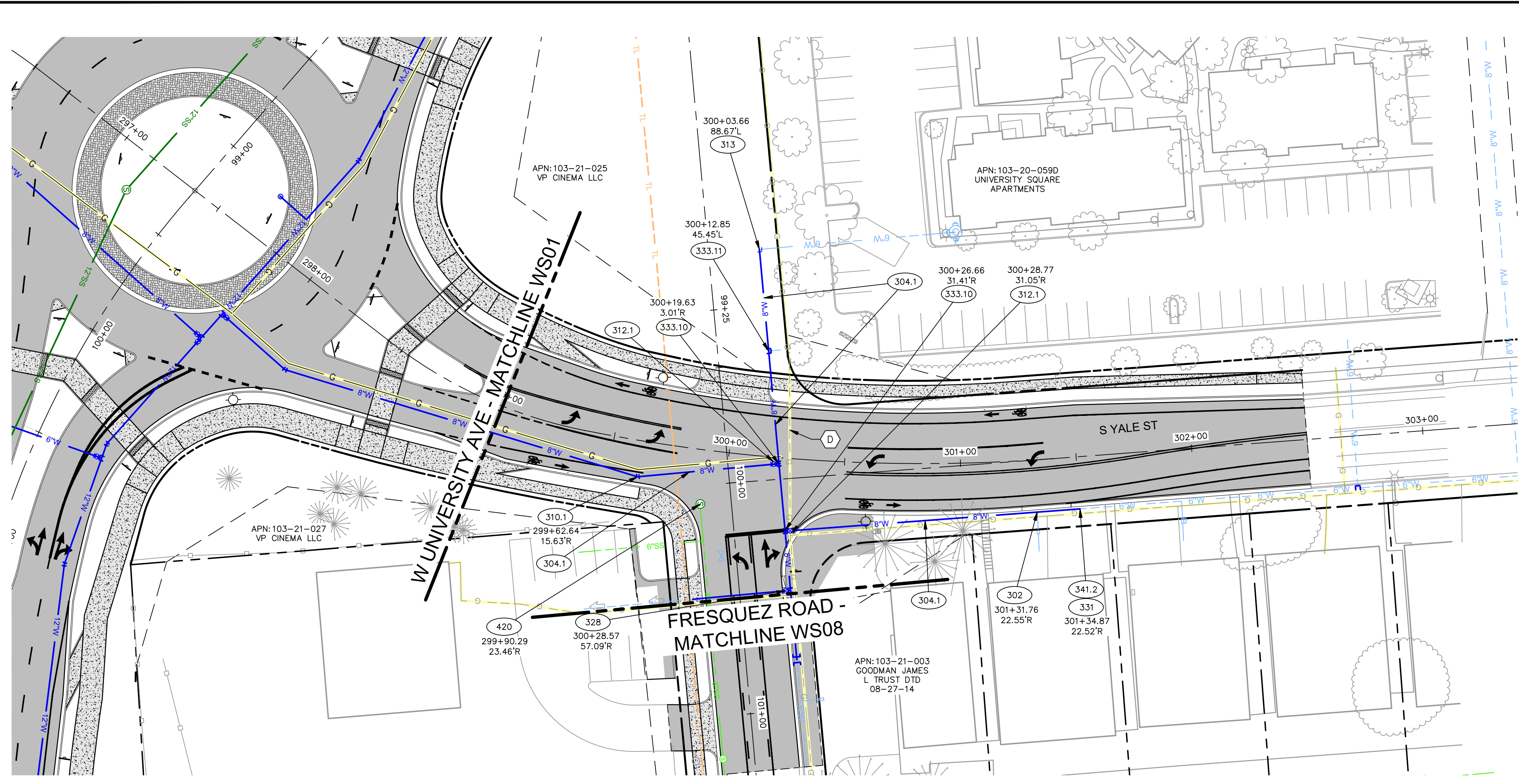
DRAWING NO. **WS06**

SHT NO. 28 OF 62

C.O.F. Project #PZ XX-XXXX

PLOTTED: Jun 28, 2021 - 4:39pm

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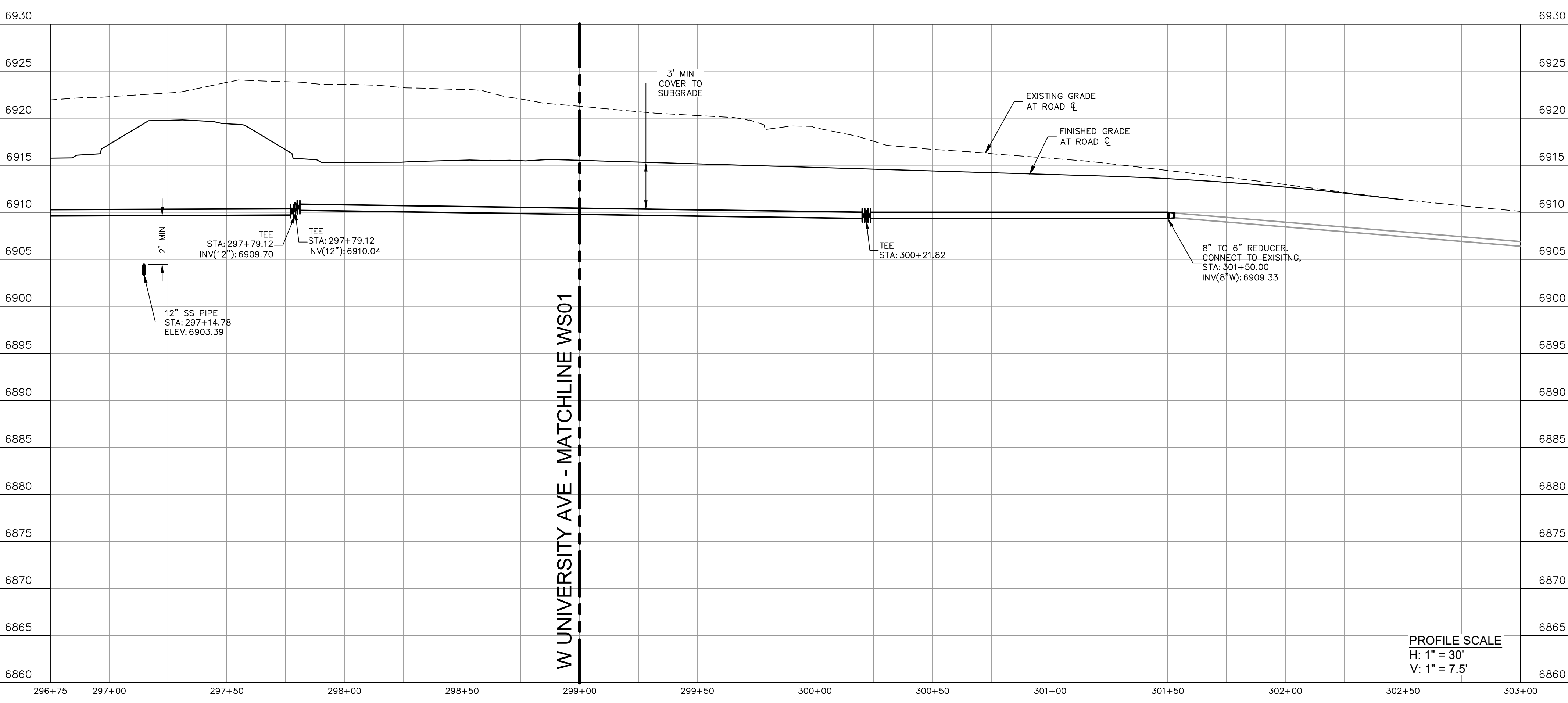
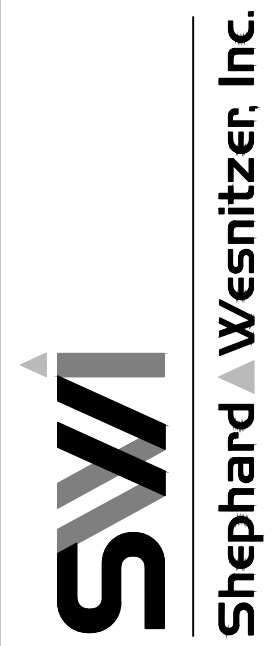


**CITY IMPROVEMENTS - WATER & SEWER**

- (302) 1 EA INSTALL NEW WATER SERVICE LINE PER C.O.F. STD. DTL 9-03-070 ON DWG DT02. INSTALL TRACER WIRE ALONG WATER SERVICE PER C.O.F. STD. DTL 9-01-020 ON DWG DT1, AND C.O.F. SECTION 13-09-001-0002. REPLACE EXISTING WATER METER BOX WITH NEW POLYMER WATER METER BOX PER C.O.F. STD. DTL 09-03-080 ON DWG DT03. REFER TO SPECIAL PROVISIONS FOR MORE INFORMATION. ADJUST CUSTOMER SIDE TO DEPTH OF REPLACED METER.
- (304.1) 403 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (310.5) 1 EA INSTALL 8", 22.5 DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (312.1) 2 EA INSTALL 8" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (313) 1 EA INSTALL 8", 90 DEG. HORIZONTAL BEND DIP CLASS 250, WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (328) 1 EA INSTALL NEW WATER SERVICE LINE PER C.O.F. STD. DTL 9-03-070 ON DWG DT01. INSTALL TRACER WIRE ALONG WATER SERVICE PER C.O.F. STD. DTL 9-01-020 ON DWG DT1, AND C.O.F. SECTION 13-09-001-0002. INSTALL SALVAGED WATER METER AND REPLACE EXISTING WATER METER BOX WITH NEW POLYMER WATER METER BOX PER C.O.F. STD. DTL 09-03-080 ON DWG DT01. REFER TO SPECIAL PROVISIONS FOR MORE INFORMATION. ADJUST CUSTOMER SIDE TO DEPTH OF REPLACED METER.
- (331) 1 EA INSTALL 8"x6" REDUCER DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (333.10) 2 EA INSTALL 8"x6" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (333.11) 1 EA INSTALL 8"x6" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (341.2) 1 EA CONNECT NEW 8" WATERLINE (C-900/CL 305 PVC/DR14) TO EXISTING 8" WATERLINE. USE RESTAINED FITTINGS AS APPROVED AND TRANSITION COUPLING AS APPROVED BY THE FIELD ENGINEER AND IN ACCORDANCE WITH THE C.O.F. ENGINEERING STANDARDS.

JOB NO.:	18121
DATE:	JUN 21
SCALE:	AS SHOWN
DRAWN:	SLV
DESIGN:	SLV
CHECKED:	SCJ

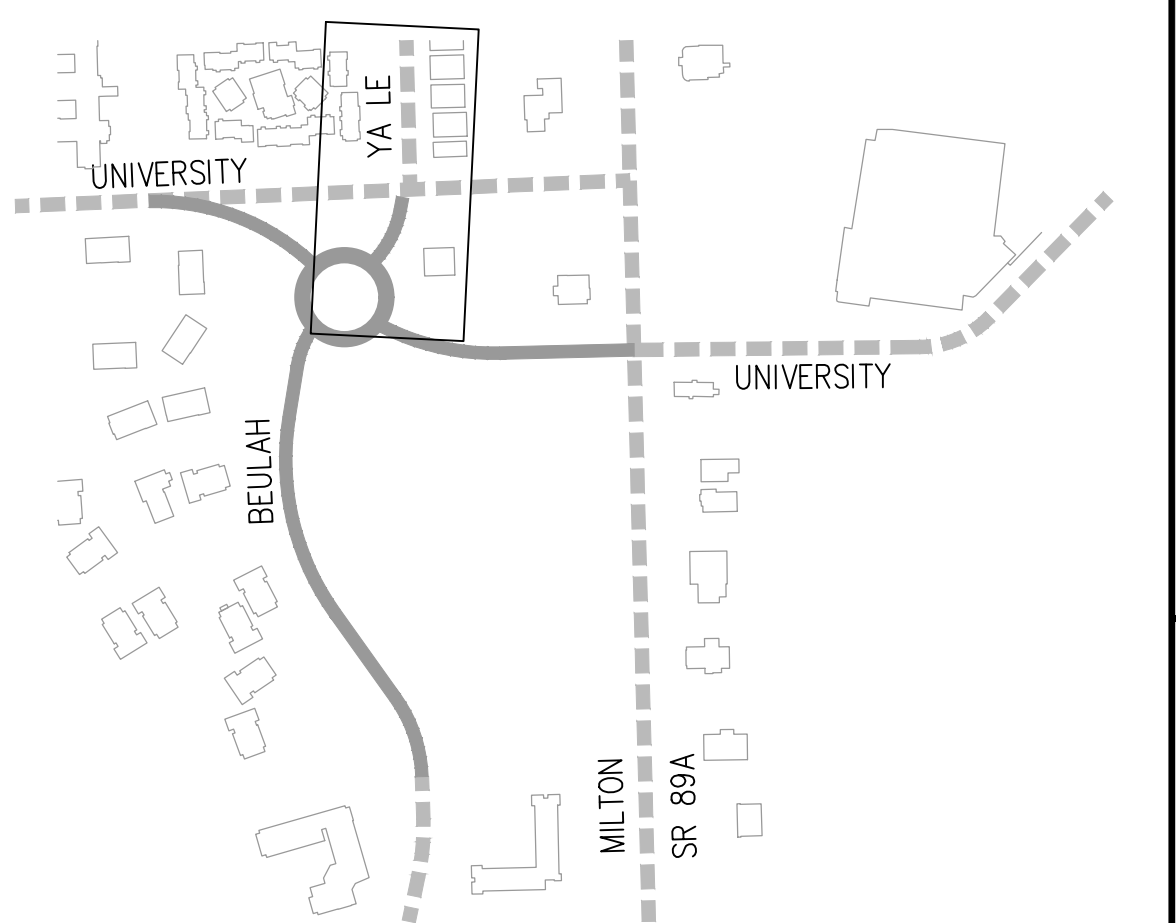
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928.774.8934 fax  
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PROFILE SCALE  
H: 1" = 30'  
V: 1" = 7.5'

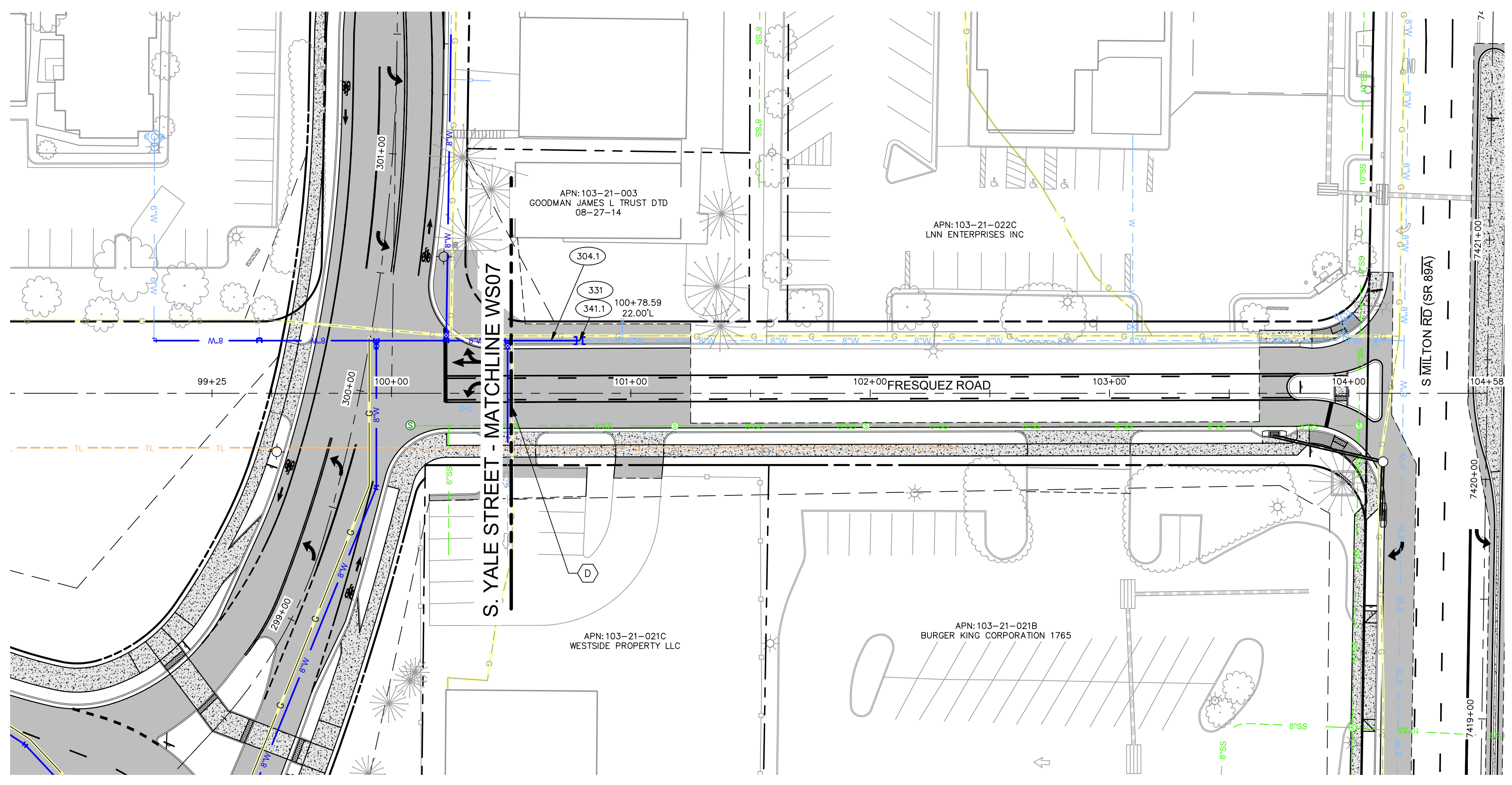
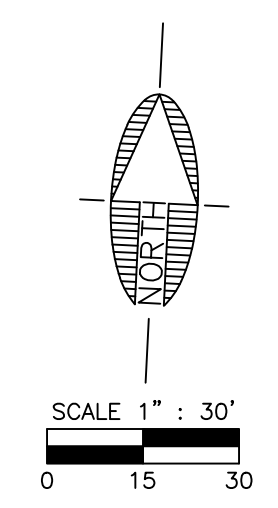
- NON-CITY DRY UTILITY CONFLICTS**
- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
  - (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
  - (C) QWEST RELOCATION AND DESIGN BY OTHERS
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**GENERAL NOTE**  
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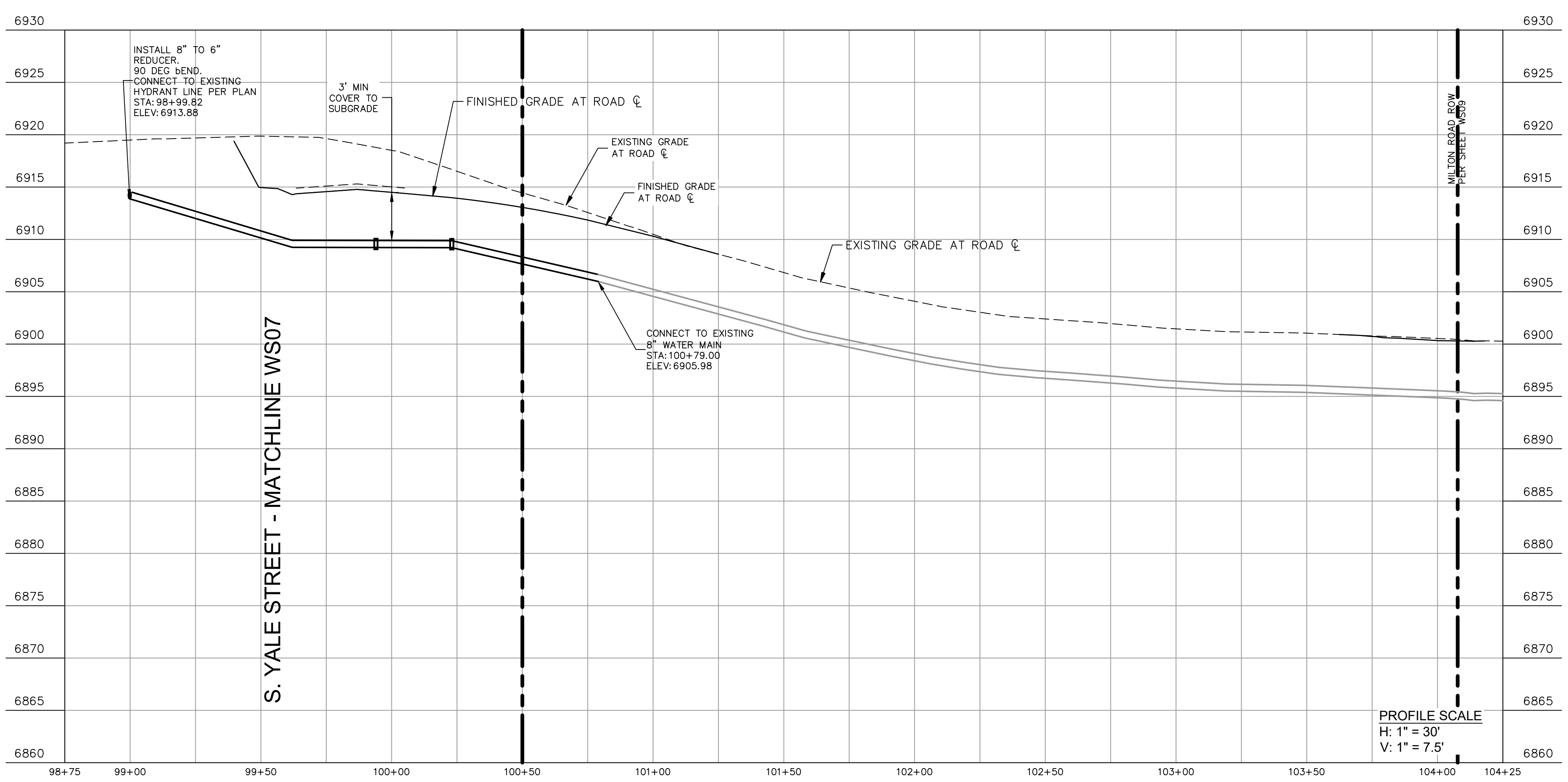
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PRELIMINARY**  
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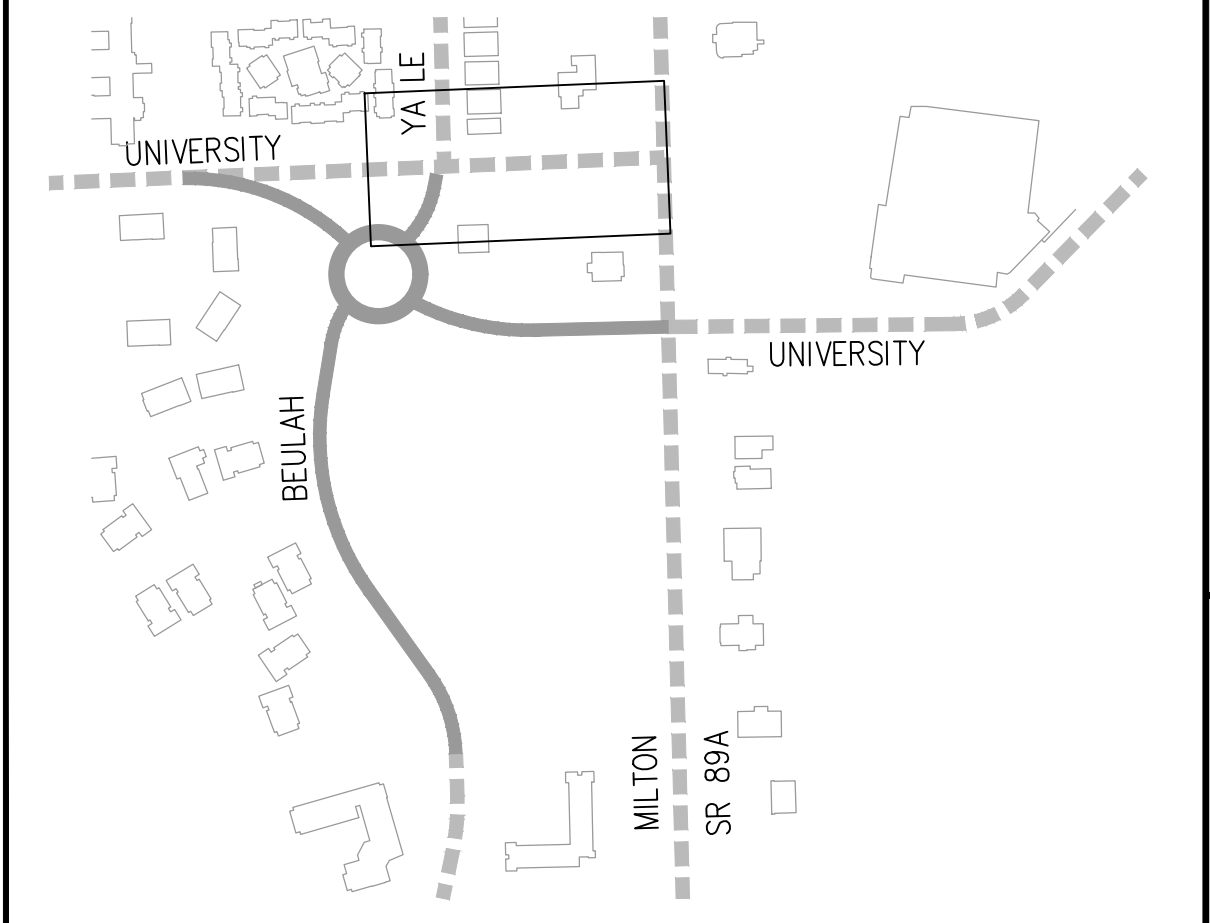
**CITY IMPROVEMENTS - WATER & SEWER**

- 304.1 29 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-01-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- 331 1 EA INSTALL 8"x6" REDUCER DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- 341.2 1 EA CONNECT NEW 8" WATERLINE (C-900/CL 305 PVC/DR14) TO EXISTING 8" WATERLINE. USE RESTAINED FITTINGS AS APPROVED AND TRANSITION COUPLING AS APPROVED BY THE FIELD ENGINEER AND IN ACCORDANCE WITH THE C.O.F. ENGINEERING STANDARDS.



- NON-CITY DRY UTILITY CONFLICTS**
- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
  - (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
  - (C) QWEST RELOCATION AND DESIGN BY OTHERS
  - (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

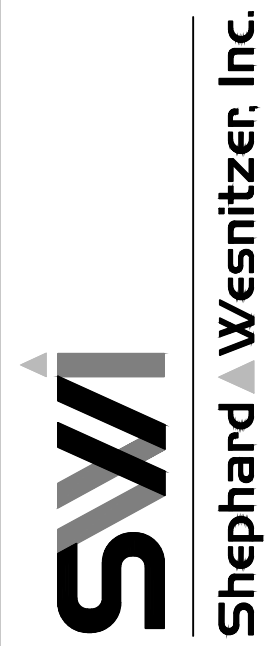
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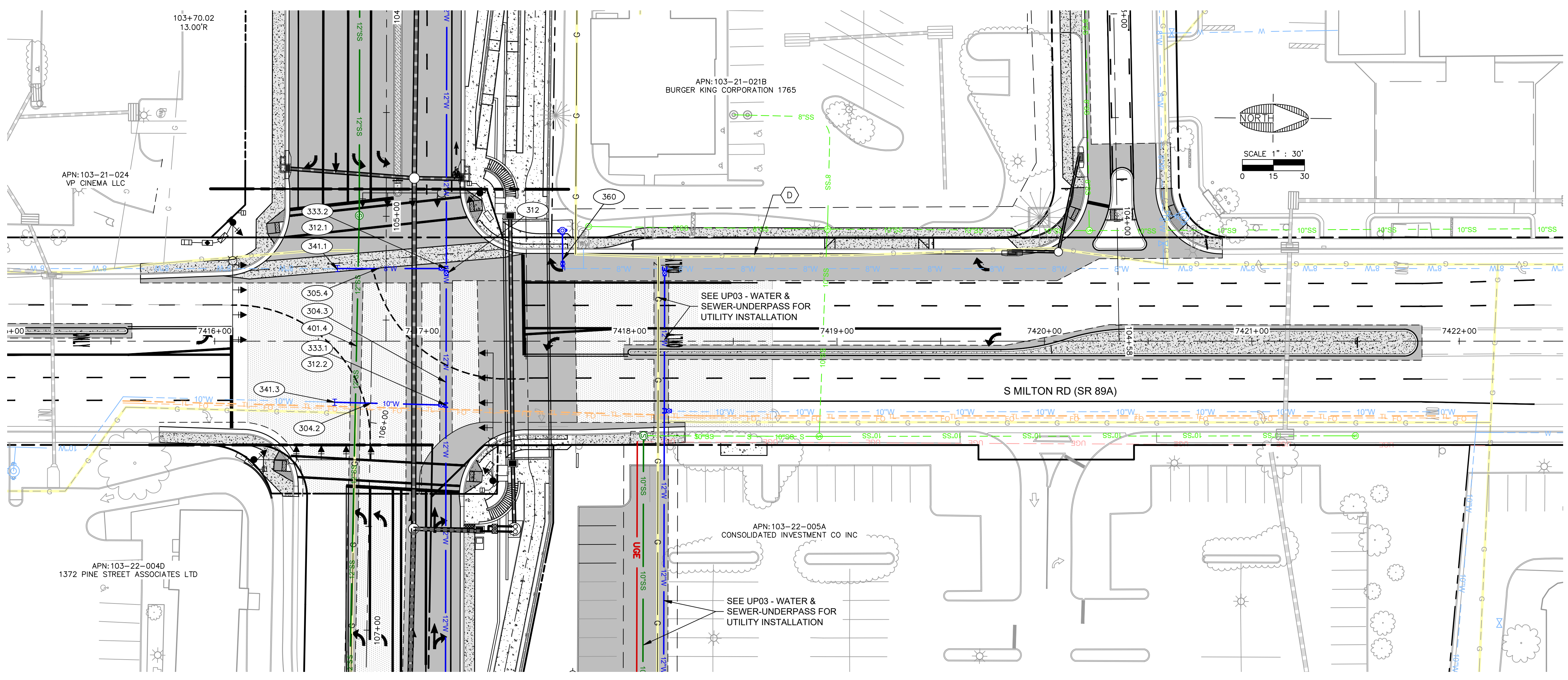
NO.	DESCRIPTION	DATE	BY

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**ARIZONA 811**  
 Arizona Blue Stakes, Inc. (928-5348)  
 Dial 8-1-1 or 1-800-514-1111 (928-5348)

DRAWING NO. **WS08**  
 SHT NO. 30 OF 62

PLOTTED: Jun 28, 2021 - 4:39pm

FILE: P:\2018\18121\Drawings\Construction\Plans\WATER-SEWER.dwg SW-C3D-2021



**ADOT IMPROVEMENTS - WATER & SEWER**

- (304.1) 53 LF INSTALL 8" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (304.2) 54 LF INSTALL 10" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER ADOT SPECS WITHIN ADOT RIGHT-OF-WAY. TRENCH EXCAVATION COMPACTION PER ADOT STD DTL C-07.06 TYPE "G", SLURRY BACKFILL PER ADOT STD SPEC 501, PIPE BEDDING ADOT STD SPEC 501-3.02.
- (304.3) 147 LF INSTALL 12" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (312) 1 EA INSTALL 12" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (312.1) 1 EA INSTALL 8" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
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- (401.4) 147 LF INSTALL 12" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER ADOT SPECS. WITHIN ADOT RIGHT-OF-WAY TRENCH EXCAVATION COMPACTION PER ADOT STD. DTL. C-07.06 TYPE "G", SLURRY BACKFILL PER ADOT STD. SPEC 501, PIPE BEDDING PER ADOT STD. SPEC 501-3.02.
- (420) 1 EA INSTALL 48" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-002-0007. INSTALL 24" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. DTL. 422.

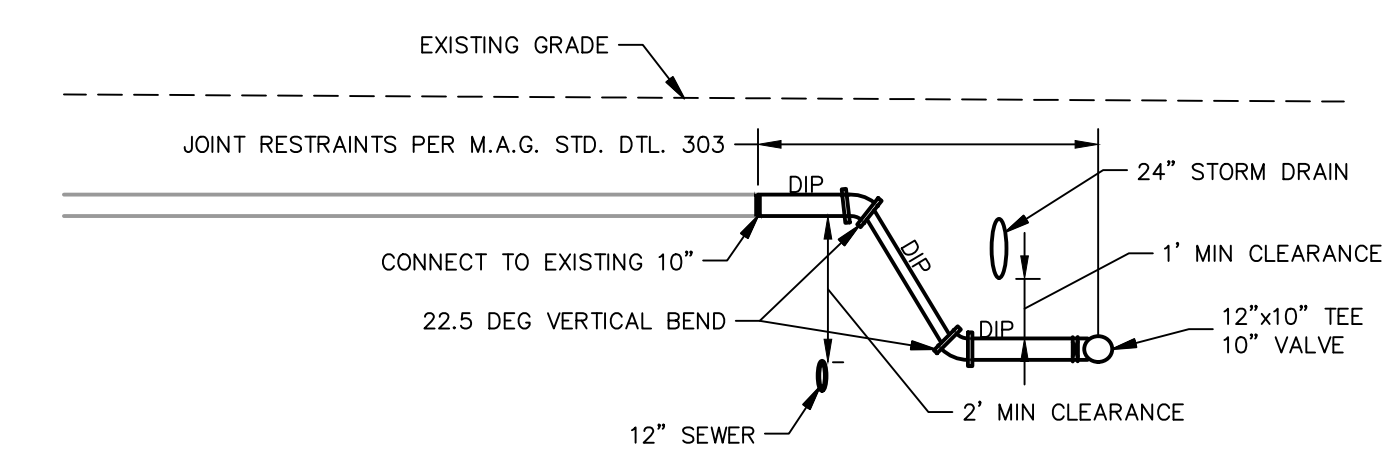
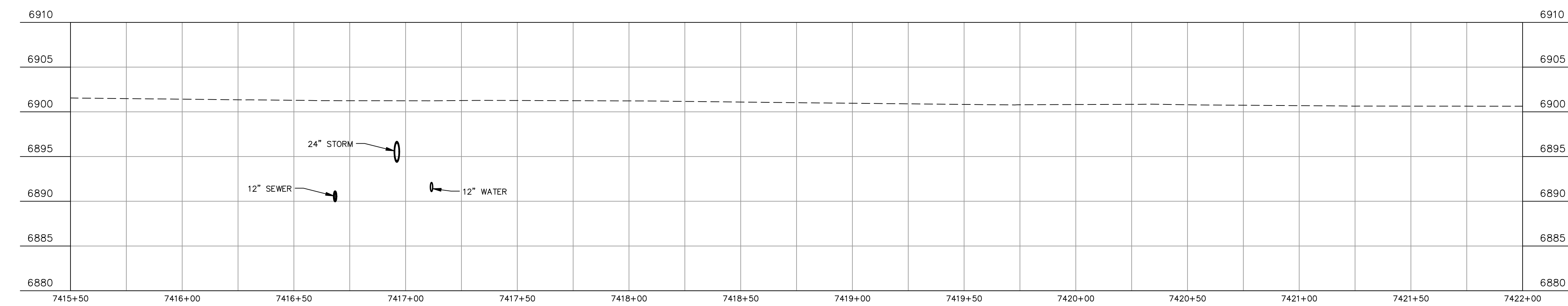
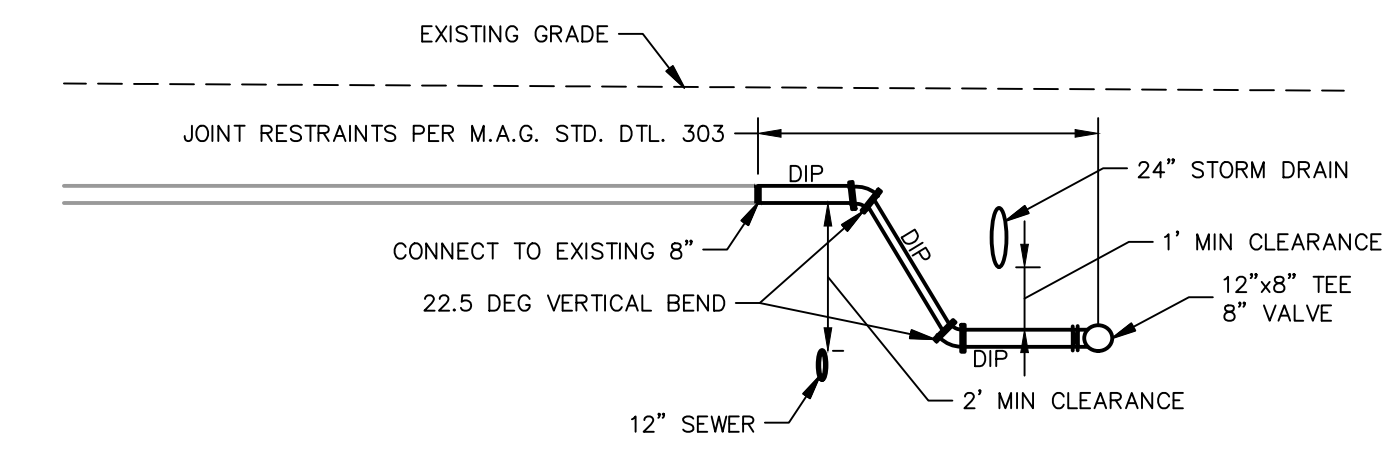
FLAGSTAFF  
ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

WATER & SEWER-MILTON (9) ADOT

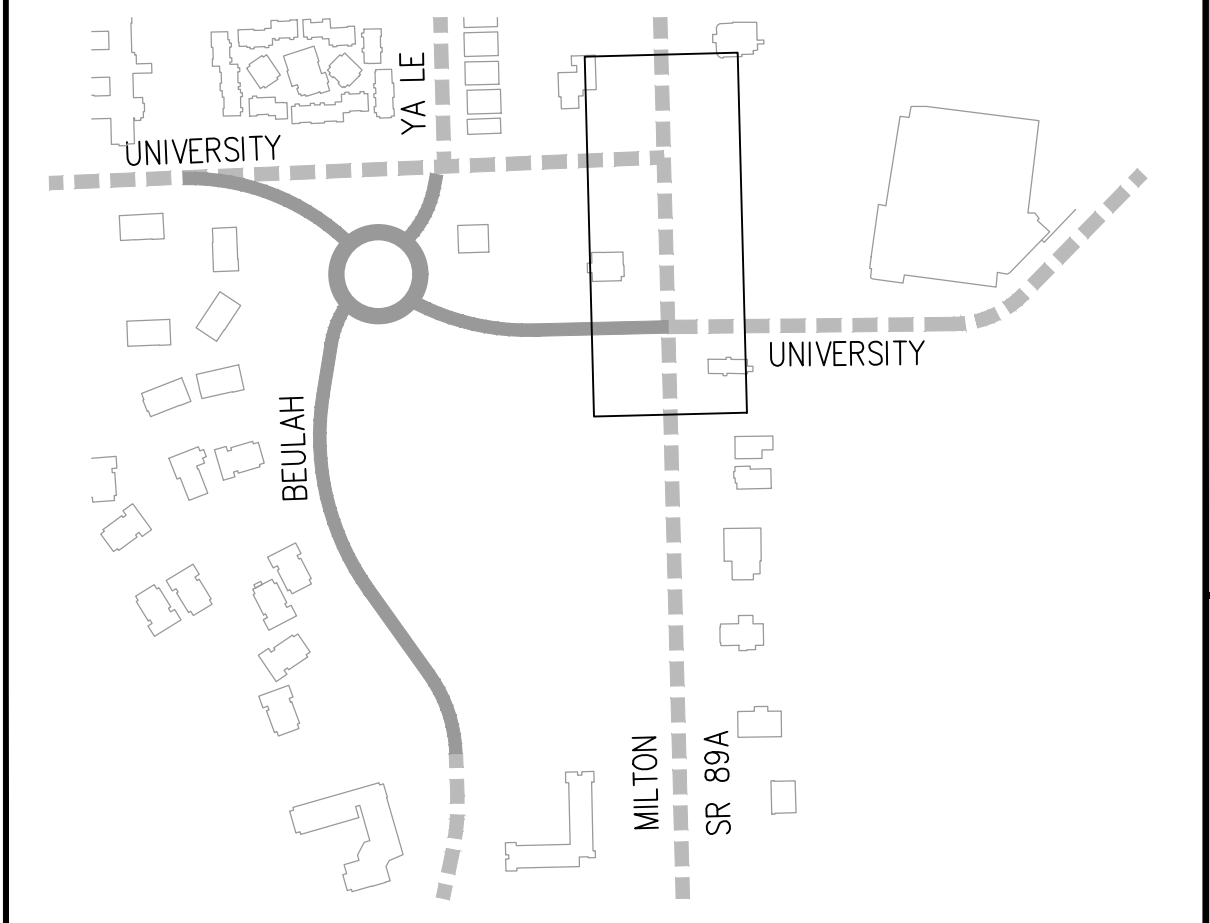
JOB NO: 18121  
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928.774.8334 fax  
www.swi.az.com



PROFILE SCALE  
H: 1" = 30'  
V: 1" = 7.5'

- NON-CITY DRY UTILITY CONFLICTS**
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  - (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
  - (C) QWEST RELOCATION AND DESIGN BY OTHERS
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Arizona Blue Stakes, Inc.

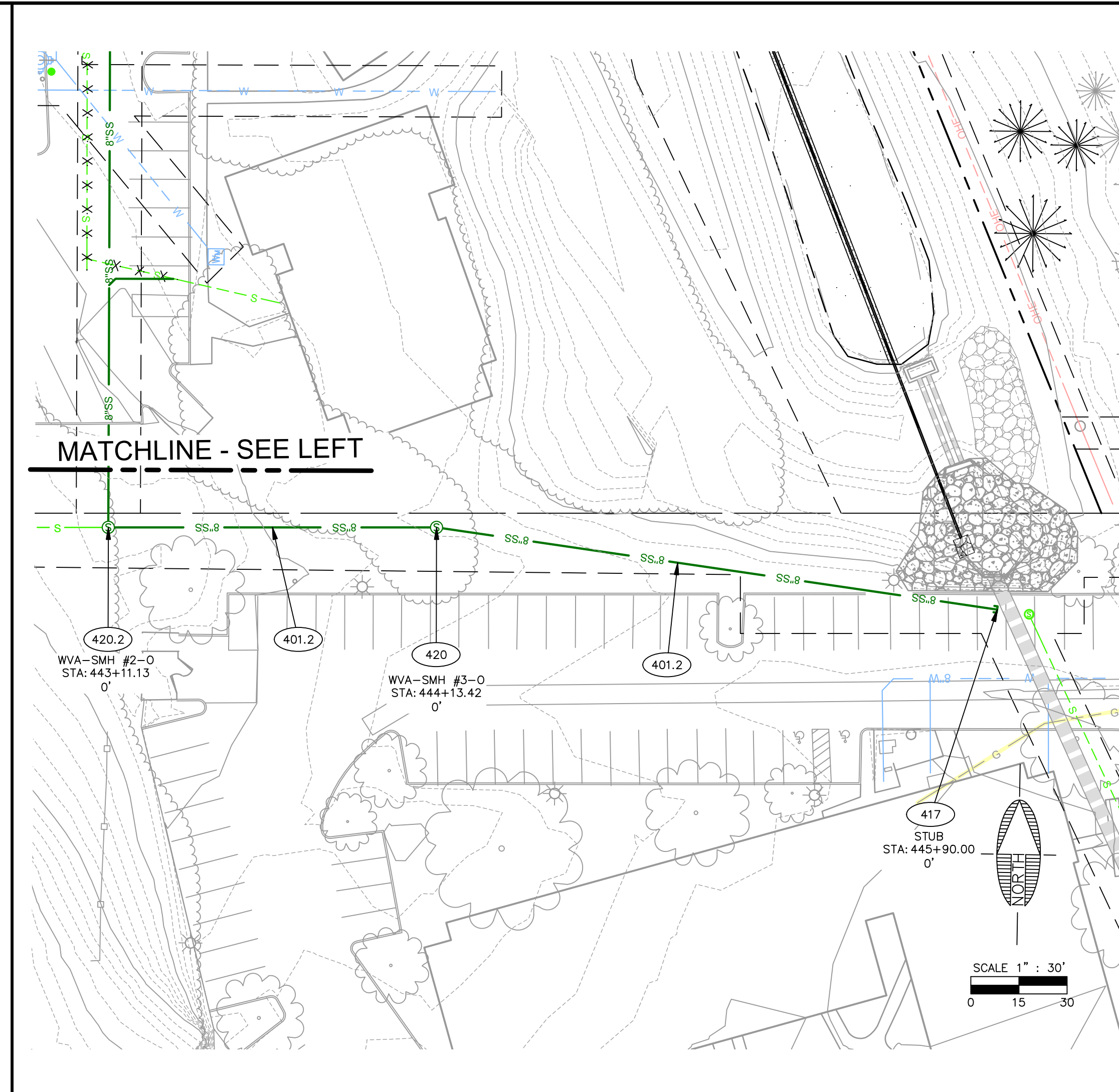
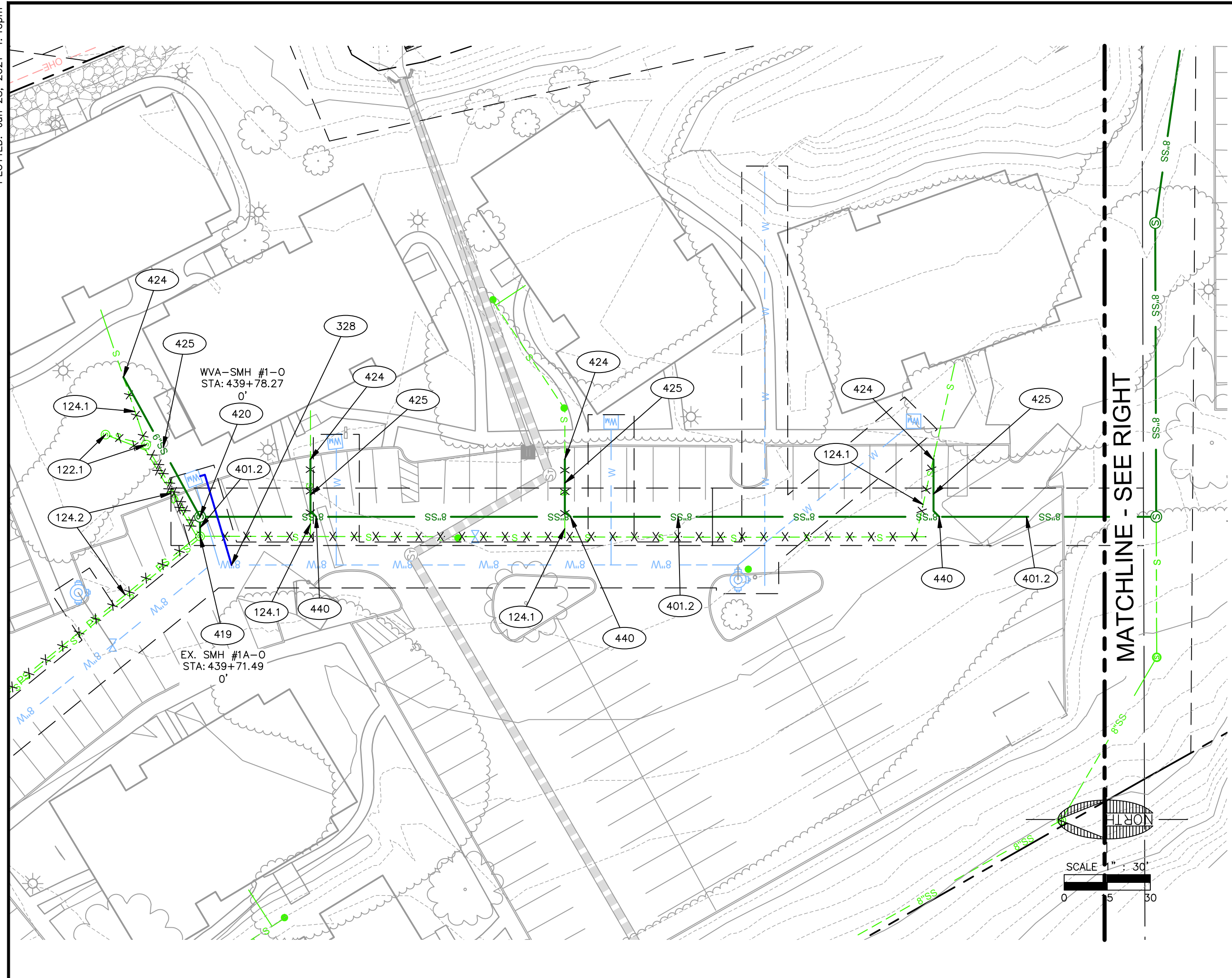
Call at least two full working days before you begin excavation.  
888-84-1111 or 1-800-514-1111 (828-5348)

NO.	DESCRIPTION	DATE	BY

DRAWING NO. **WS09**

SHT NO. 31 OF 62

C.O.F. Project #PZ XX-XXXX



**CITY IMPROVEMENTS - WATER & SEWER**

122.1	2 EA	REMOVE AND DISPOSE OF EXISTING SEWER MANHOLE PER M.A.G. SPECS. 336 & 350.
124.1	396 LF	ABANDON EXISTING SEWER IN PLACE.
124.2	208 LF	ABANDON EXISTING PRESSURE SEWER IN PLACE.
328	1 EA	INSTALL NEW WATER SERVICE LINE PER C.O.F. STD. DTL. 9-03-070 ON DWG DT01. INSTALL TRACER WIRE ALONG WATER SERVICE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT1. AND C.O.F. SECTION 13-09-001-0002. INSTALL SALVAGED WATER METER AND REPLACE EXISTING WATER METER BOX WITH NEW POLYMER WATER METER BOX PER C.O.F. STD. DTL. 09-03-080 ON DWG DT01. REFER TO SPECIAL PROVISIONS FOR MORE INFORMATION. ADJUST CUSTOMER SIDE TO DEPTH OF REPLACED METER.
401.2	619 LF	INSTALL 8" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER M.A.G. SPECS. 601 & 615 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG SEWER LINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING, AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
401.4	110 LF	INSTALL 12" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER ADOT SPECS. WITHIN ADOT RIGHT-OF-WAY TRENCH EXCAVATION COMPACTION PER ADOT STD. DTL. C-07-06 TYPE 'G', SLURRY BACKFILL PER ADOT STD. SPEC 501, PIPE BEDDING PER ADOT STD. SPEC 501-3.02.
417	1 EA	CONNECT NEW 8" SS LINE TO EXISTING SS LINE.
419	1 EA	CONNECT NEW 8" SS LINE TO EXISTING SEWER MANHOLE. CAP EXISTING ABANDONED SS LINE CONNECTIONS. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND ADJUST ALIGNMENT AS REQUIRED FOR CONNECTION.
420	2 EA	INSTALL 48" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-0002-0007. INSTALL 24" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. DTL. 422.
420.2	1 EA	INSTALL 60" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-092 AND C.O.F. SECTION 13-09-0002-0007. INSTALL 30" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. DTL. 422.
424	3 EA	CONNECT NEW SS SERVICE TO EXISTING SS SERVICE.
440	3 EA	INSTALL 6" SEWER SERVICE AND SEWER CONNECTION PER MAG STD DTL 440 WITH 'S' BRANDED INTO TOP OF CURB AT SERVICE LOCATION.

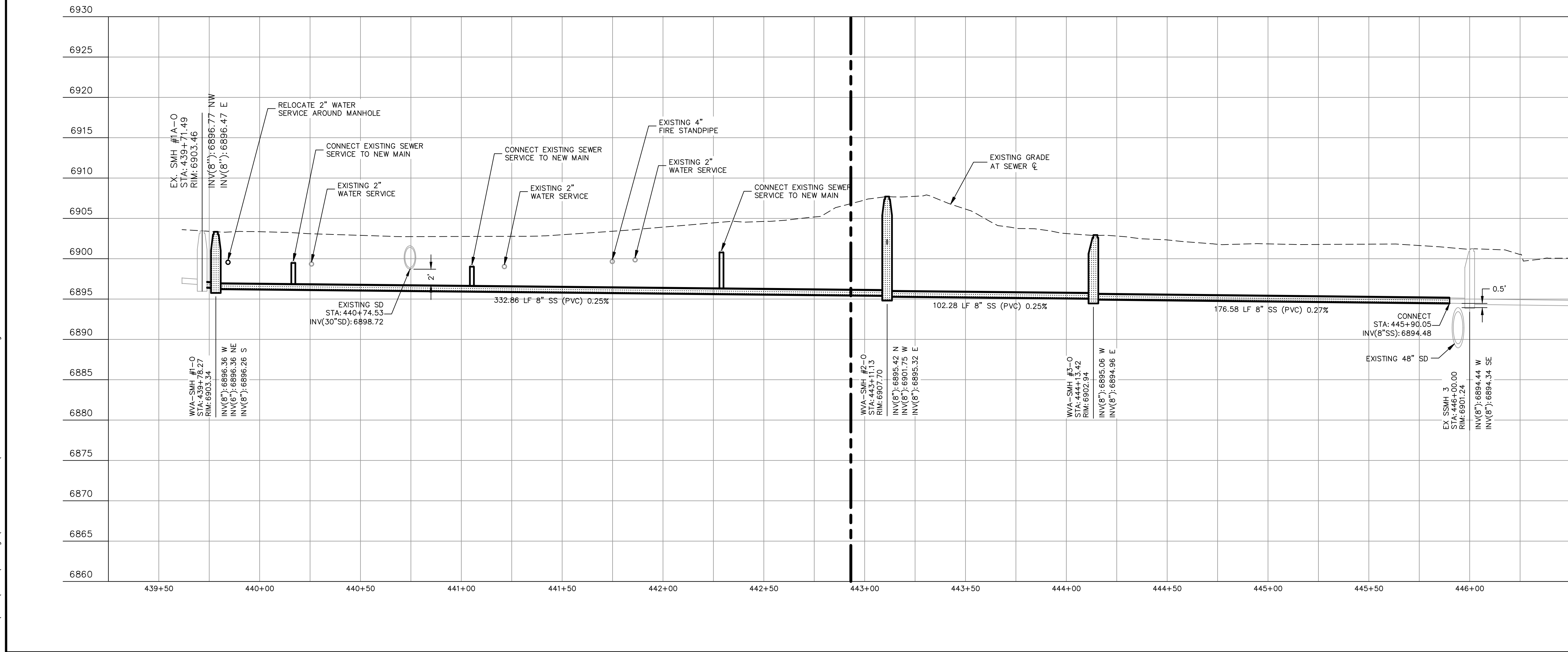
FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

WOODLAND VILLAGE SEWER

JOB NO: 18121  
DATE: JUN 21  
SCALE: AS SHOWN  
DRAWN: SJV  
DESIGN: SJV  
CHECKED: SCJ

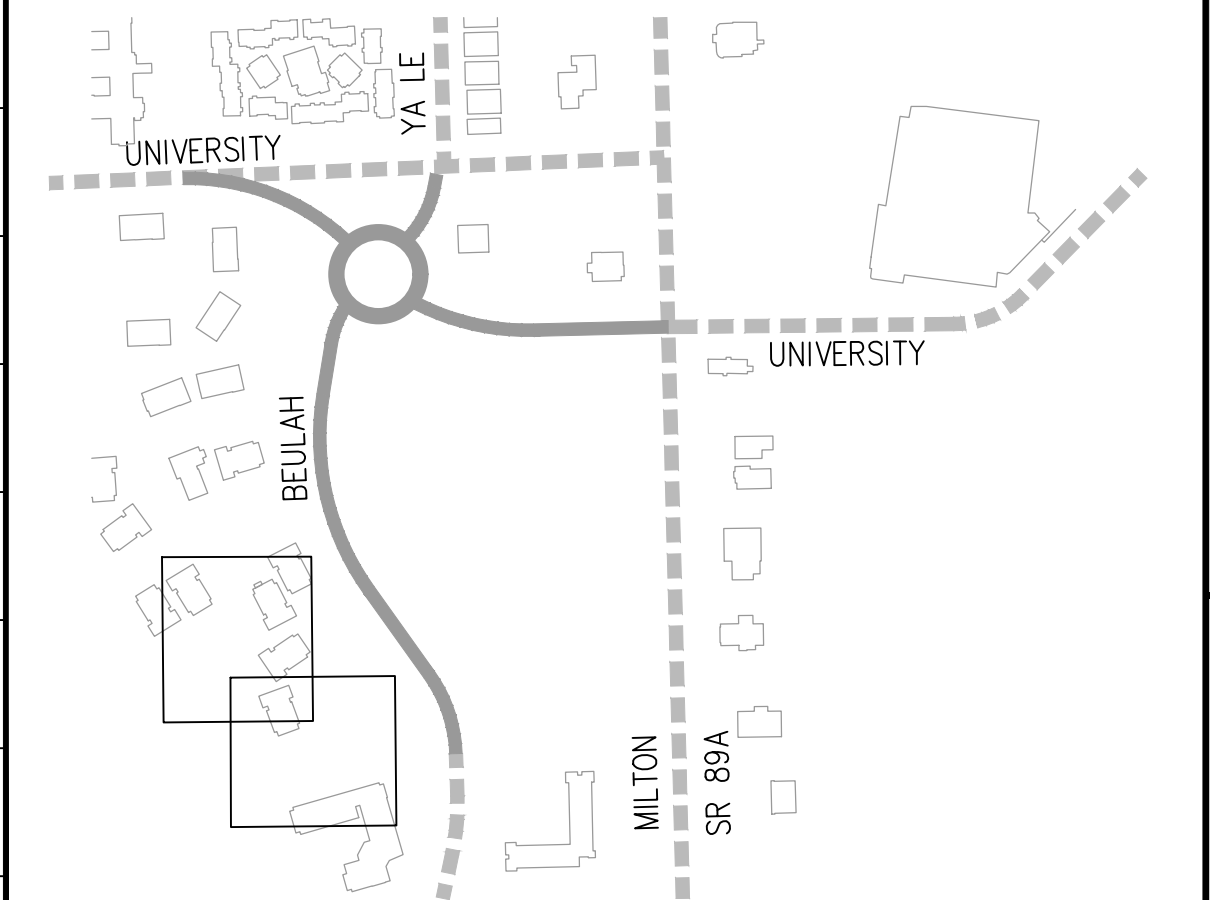
110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.773.0354  
928.774.8934 fax  
www.swi.coz.com



**NON-CITY DRY UTILITY CONFLICTS**

(A)	APS (POWER) RELOCATION AND DESIGN BY OTHERS
(B)	NPG CABLE RELOCATION AND DESIGN BY OTHERS
(C)	QWEST RELOCATION AND DESIGN BY OTHERS
(D)	UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

**GENERAL NOTE**  
WATER LINES SHALL BE INSTALLED PER CITY OF FLAGSTAFF STANDARD DETAIL 09-01-010 AND HAVE A MINIMUM OF 3' OF COVER FROM THE SUBGRADE ELEVATION.



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NO.	DESCRIPTION	DATE	BY

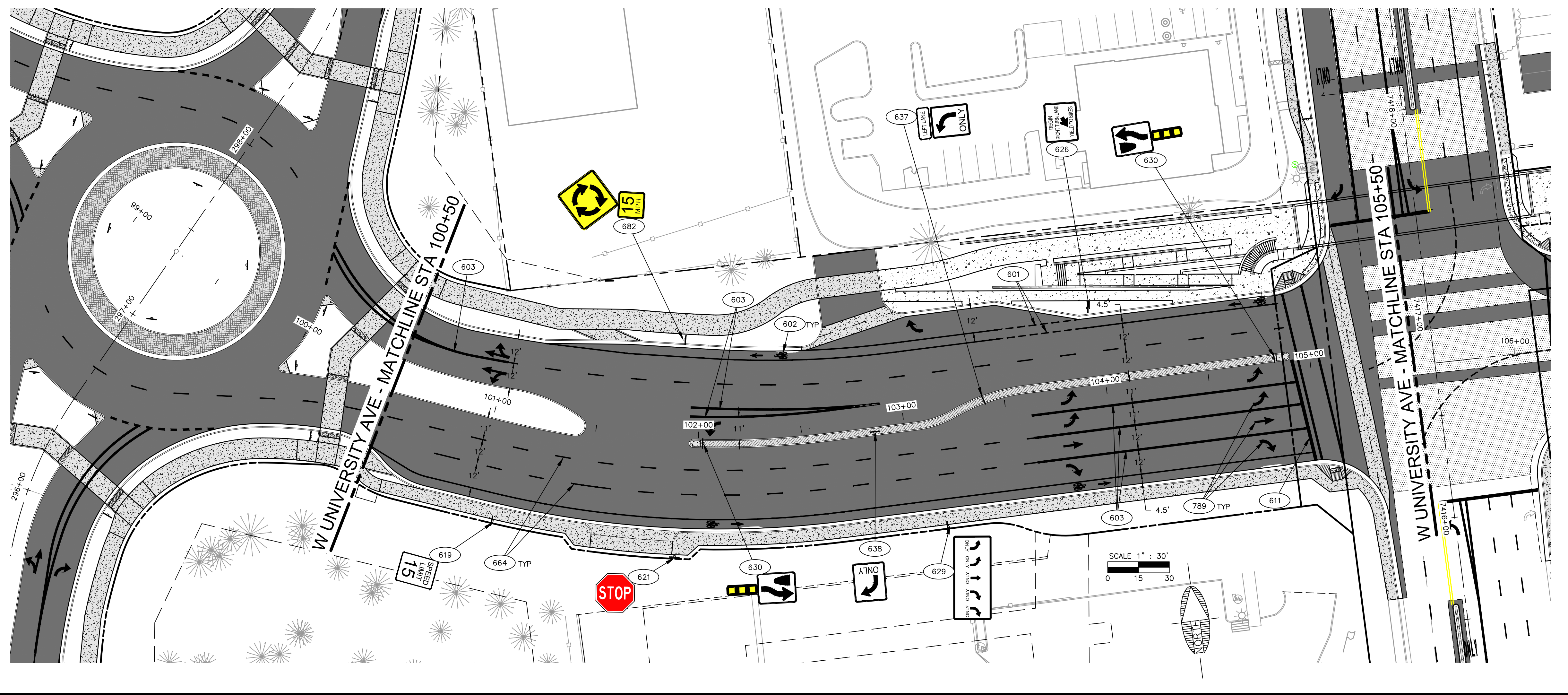
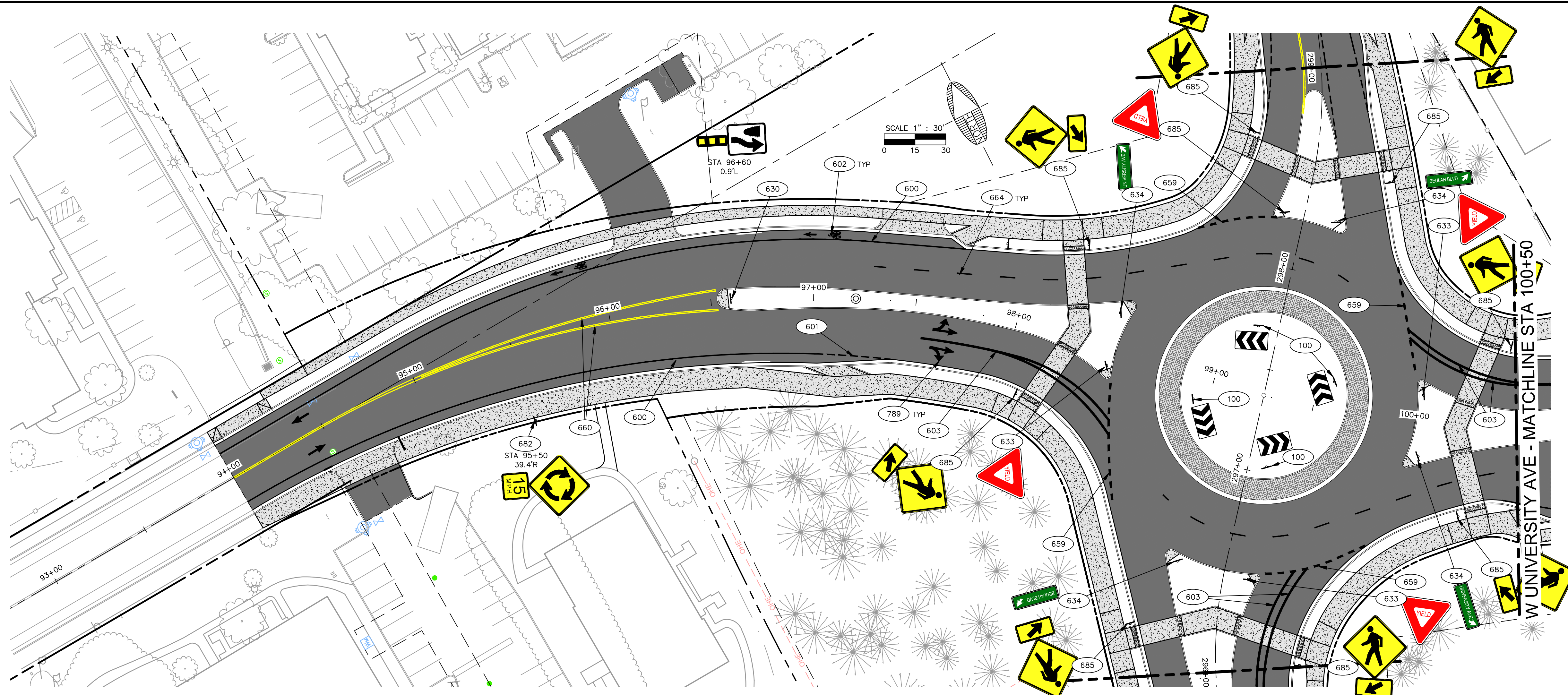
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ARIZONA 811  
Arizona Blue Stakes, Inc.  
888 84-1111 or 1-800-514-1111 (782-5348)

DRAWING NO. **WS10**

SHT NO. 32 OF 62

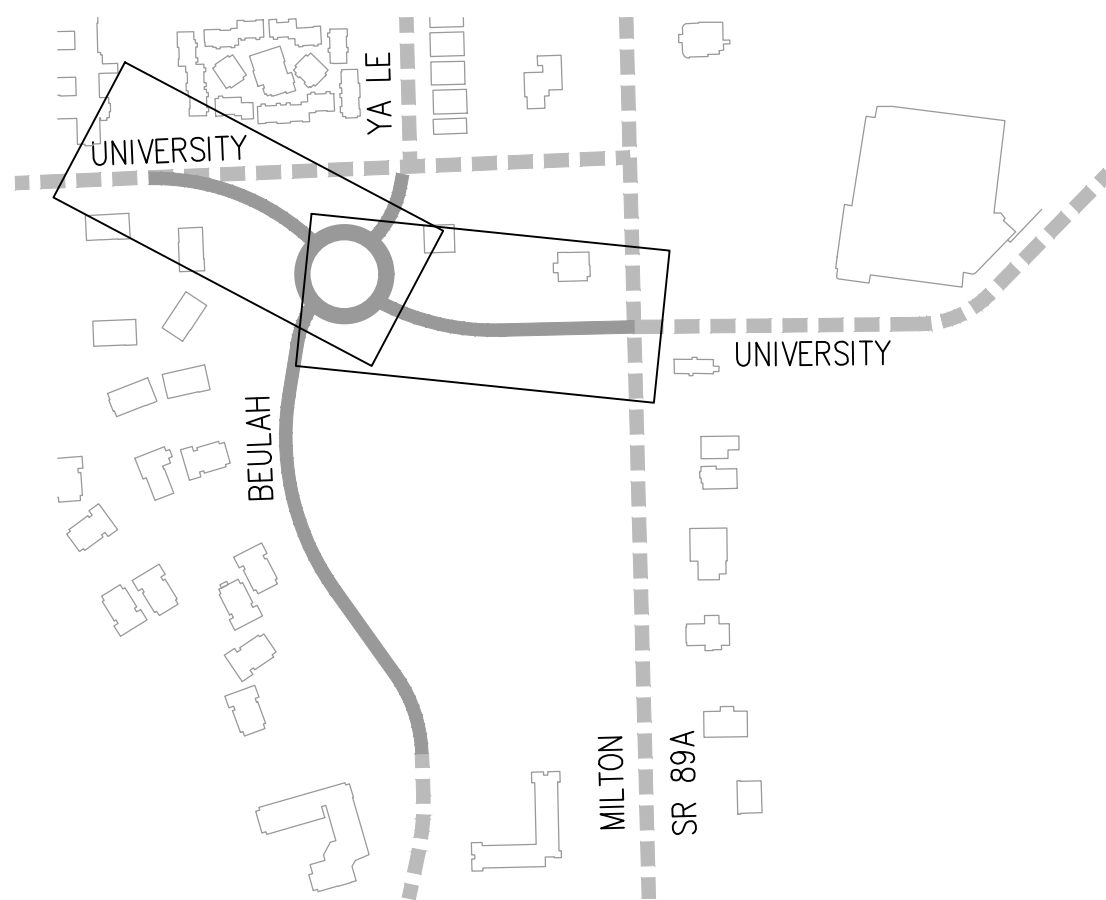
C.O.F. Project #PZ XX-XXXX





**CITY IMPROVEMENTS - STRIPING & SIGNAGE**

- 619 1 EA INSTALL 15 MPH SPEED LIMIT SIGN (R2-1) PER MUTCD.
- 621 1 EA INSTALL STOP SIGN (R-1) PER MUTCD.
- 626 1 EA INSTALL BEGIN RIGHT TURN LANE SIGN (R4-4) PER COF STD DTL 10-10-020 AND MUTCD. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 629 1 EA INSTALL "ADVANCE INTERSECTION LANE CONTROL" SIGN (R3-) PER MUTCD AND AS SHOWN ON PLANS.
- 630 3 EA INSTALL "NARROW KEEP RIGHT" SIGN (R04-07C) PER MUTCD WITH STANDARD DELINEATOR PER COF STD DTL 10-06-011
- 634 4 EA INSTALL "STREET NAME" SIGN (D3-1) PER MUTCD.
- 637 1 EA INSTALL LEFT TURN ONLY SIGN (R3-5L) WITH LANE CONTROL PLAQUE "LEFT LANE" (R3-5B) PER MUTCD. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 638 1 EA INSTALL RIGHT TURN ONLY SIGN (R3-5R) PER MUTCD. HORIZONTAL PLACEMENT AS SHOWN ON PLANS
- 677 4 EA INSTALL "YIELD" SIGN (R1-2) PER MUTCD.
- 682 2 EA INSTALL ROUNDABOUT SIGN (W2-6) WITH 15 MPH WARNING PLAQUE (W13-1P) PER MUTCD.
- 685 8 EA INSTALL PEDESTRIAN SIGN (W11-2A) WITH DIRECTIONAL ARROW (W16-7P) PER MUTCD.
- 600 1,474 LF INSTALL WHITE BIKE LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010.
- 601 170 LF INSTALL WHITE BIKE LANE DASHED STRIPING PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 602 6 EA INSTALL WHITE BIKE LANE PAVEMENT MARKINGS PER C.O.F. STD. DETAIL 16-06-010.
- 603 970 LF INSTALL 8" WHITE TURN LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010 AND ADOT SPEC 709 FOR EPOXY. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 611 50 LF INSTALL 18" WHITE STOP BAR PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 659 223 LF INSTALL 12" WHITE STRIPING (YIELD LINE), 3' SEGMENTS WITH 3' GAPS PER MUTCD SECTION 3A.06. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 660 440 LF INSTALL 6" DOUBLE YELLOW CENTERLINE STRIPING PER ADOT DWG. M-2 AND C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 664 1,410 LF INSTALL 6" WHITE STRIPING (SKIP LINE), 1' SEGMENT WITH 3' GAPS PER C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 789 16 EA INSTALL PAVEMENT MARKING ARROW IN ACCORDANCE WITH ADOT STANDARD DETAILS M-10 & M-11 AND ADOT STANDARD SPECIFICATION 709 (EPOXY).

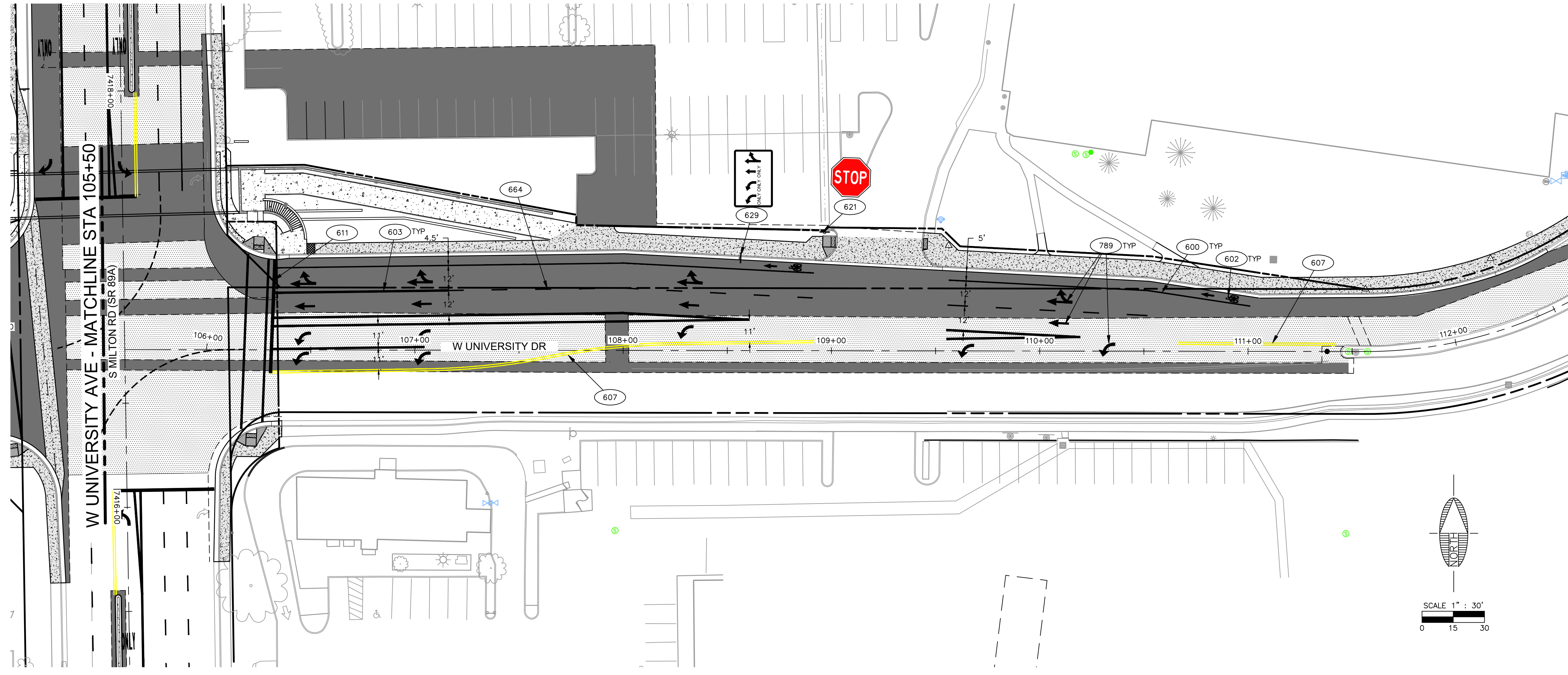


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JOB NO: 18121 DATE: JUN 21 SCALE: AS SHOWN DRAWN: SJV DESIGN: SJV CHECKED: SCJ	110 W. Dole Avenue Flagstaff, AZ 86001 928.773.0354 928.774.8934 fax www.swi.biz	FLAGSTAFF ARIZONA BEULAH & UNIVERSITY IMPROVEMENT PLANS <b>SIGNAGE &amp; STRIPING-UNIVERSITY (1)</b>	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DESCRIPTION	DATE	BY				
NO.	DESCRIPTION	DATE	BY								
Call at least two full working days before you begin excavation. <b>ARIZONA811</b> Arizona Blue Stakes, Inc. (928-5348) 888 84-1111 or 1-800-534-1111 (928-5348)		DRAWING NO. <b>SS01</b> SHT NO. OF 33 OF C.O.F. Project #PZ XX-XXXX									

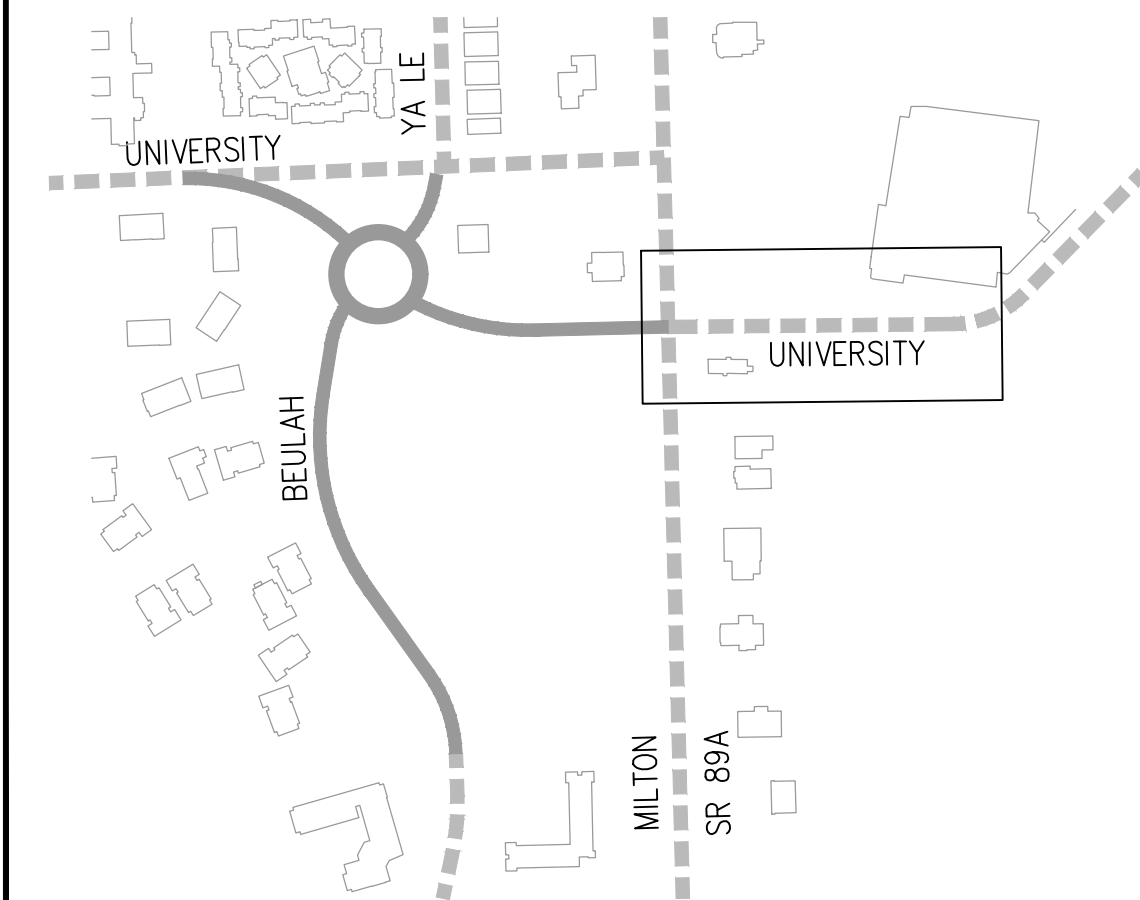
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**CITY IMPROVEMENTS - STRIPING & SIGNAGE**

- 621 1 EA INSTALL STOP SIGN (R-1) PER MUTCD.
- 629 1 EA INSTALL "ADVANCE INTERSECTION LANE CONTROL" SIGN (R3-) PER MUTCD AND AS SHOWN ON PLANS.
- 600 405 LF INSTALL WHITE BIKE LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010.
- 602 2 EA INSTALL WHITE BIKE LANE PAVEMENT MARKINGS PER C.O.F. STD. DETAIL 16-06-010.
- 603 750 LF INSTALL 8" WHITE TURN LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010 AND ADOT SPEC 709 FOR EPOXY. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 607 345 LF INSTALL 4" DOUBLE YELLOW CENTERLINE STRIPING PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 611 55 LF INSTALL 18" WHITE STOP BAR PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 664 335 LF INSTALL 6" WHITE STRIPING (SKIP LINE), 1' SEGMENT WITH 3' GAPS PER C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 789 15 EA INSTALL PAVEMENT MARKING ARROW IN ACCORDANCE WITH ADOT STANDARD DETAILS M-10 & M-11 AND ADOT STANDARD SPECIFICATION 709 (EPOXY).

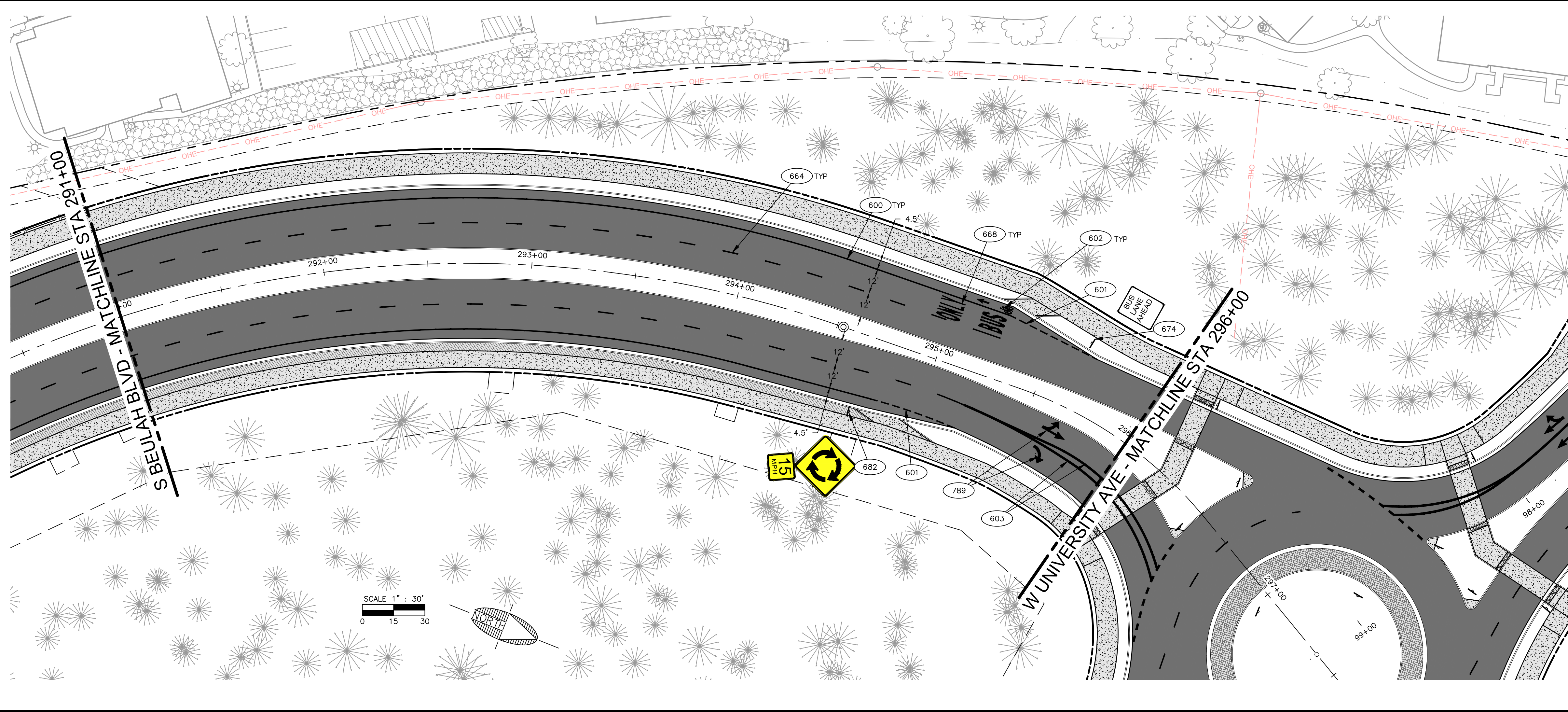
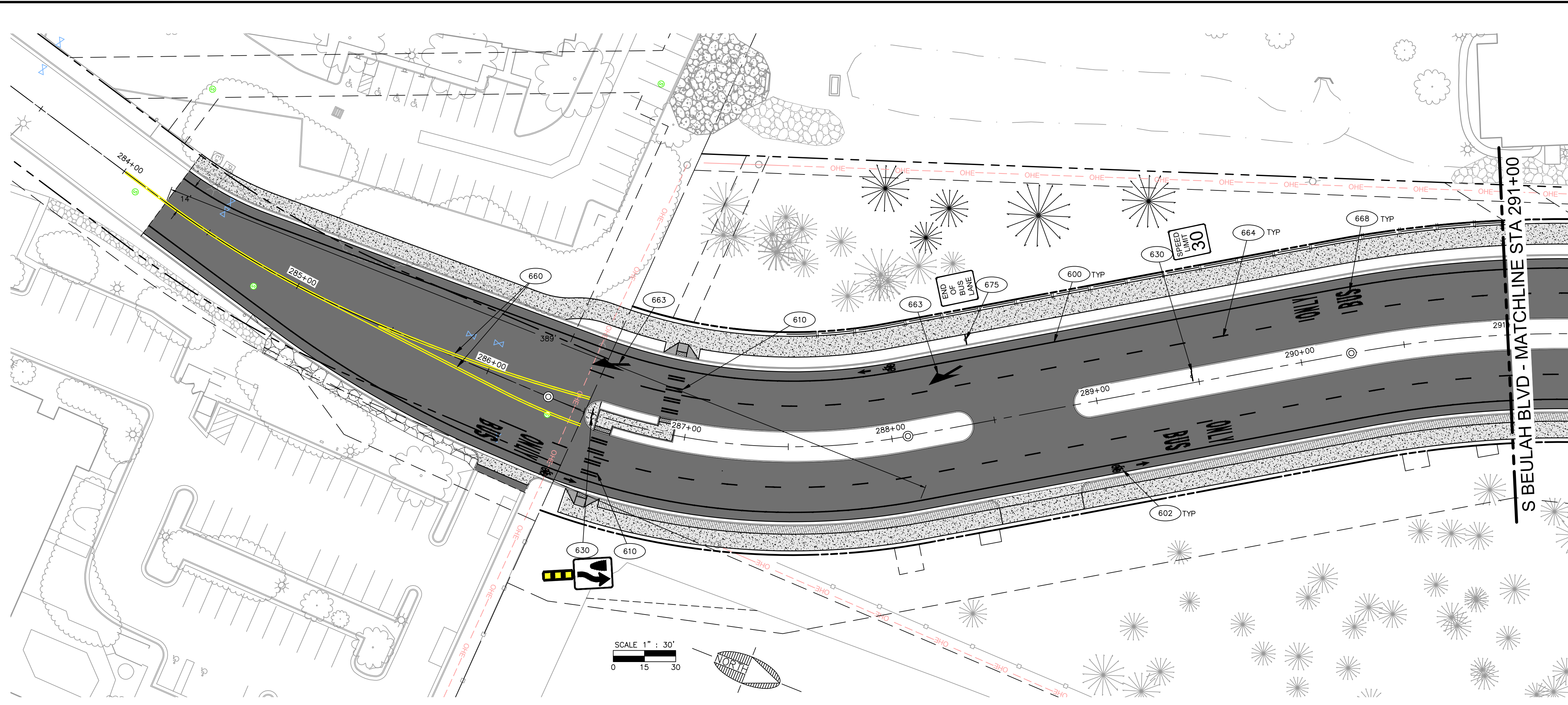


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DRAWING NO.			SHT NO. OF	
<b>SS02</b>			34 OF 62	
C.O.F. Project #PZ XX-XXXX				

PLOTTED: Jun 28, 2021 - 4:41pm

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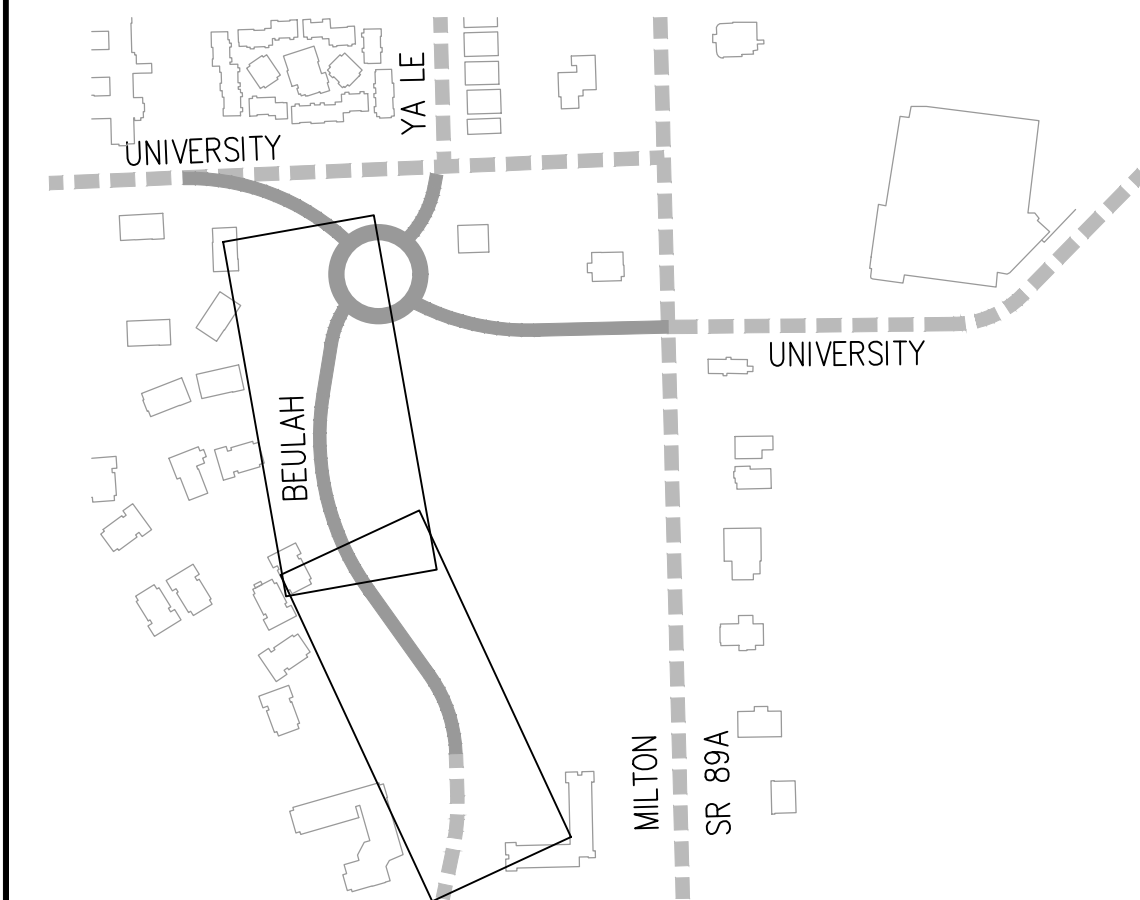
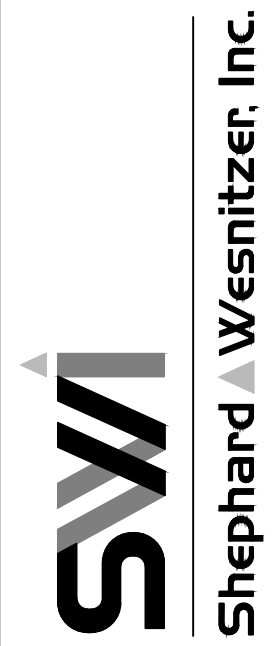


**CITY IMPROVEMENTS - STRIPING & SIGNAGE**

- 623 1 EA INSTALL 30 MPH SPEED LIMIT SIGN (R2-1) PER MUTCD.
- 630 1 EA INSTALL "NARROW KEEP RIGHT" SIGN (R04-07C) PER MUTCD WITH STANDARD DELINEATOR PER COF STD DTL 10-06-011
- 674 1 EA INSTALL "BUS LANE AHEAD" SIGN (R3-12) PER MUTCD.
- 675 1 EA INSTALL "BUS LANE ENDS" SIGN (R3-12g) PER MUTCD.
- 682 1 EA INSTALL ROUNDABOUT SIGN (W2-6) WITH 15 MPH WARNING PLAQUE (W13-1P) PER MUTCD.
- 600 2,160 LF INSTALL WHITE BIKE LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010.
- 601 90 LF INSTALL WHITE BIKE LANE DASHED STRIPING PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 602 4 EA INSTALL WHITE BIKE LANE PAVEMENT MARKINGS PER C.O.F. STD. DETAIL 16-06-010.
- 603 125 LF INSTALL 8" WHITE TURN LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010 AND ADOT SPEC 709 FOR EPOXY. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 610 50 LF INSTALL CROSSWALK MARKING PER C.O.F. STD. DETAIL 16-06-010.
- 660 370 LF INSTALL 6" DOUBLE YELLOW CENTERLINE STRIPING PER ADOT DWG. M-2 AND C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 663 2 EA INSTALL 9" WHITE MERGING ARROW, PREFORMED PAVEMENT MARKING TYPE I PER ADOT DWGS. M-10 AND M-11. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 664 1,785 LF INSTALL 6" WHITE STRIPING (SKIP LINE), 1' SEGMENT WITH 3' GAPS PER C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 668 4 EA INSTALL WHITE PREFORMED PAVEMENT MARKING "BUS ONLY" TYPE 1 PER ADOT DWGS. M-6, M-7 & M-8, HORIZONTAL PLACEMENT AS SHOWN ON THE PLANS.
- 789 2 EA INSTALL PAVEMENT MARKING ARROW IN ACCORDANCE WITH ADOT STANDARD DETAILS M-10 & M-11 AND ADOT STANDARD SPECIFICATION 709 (EPOXY).

JOB NO:	18121
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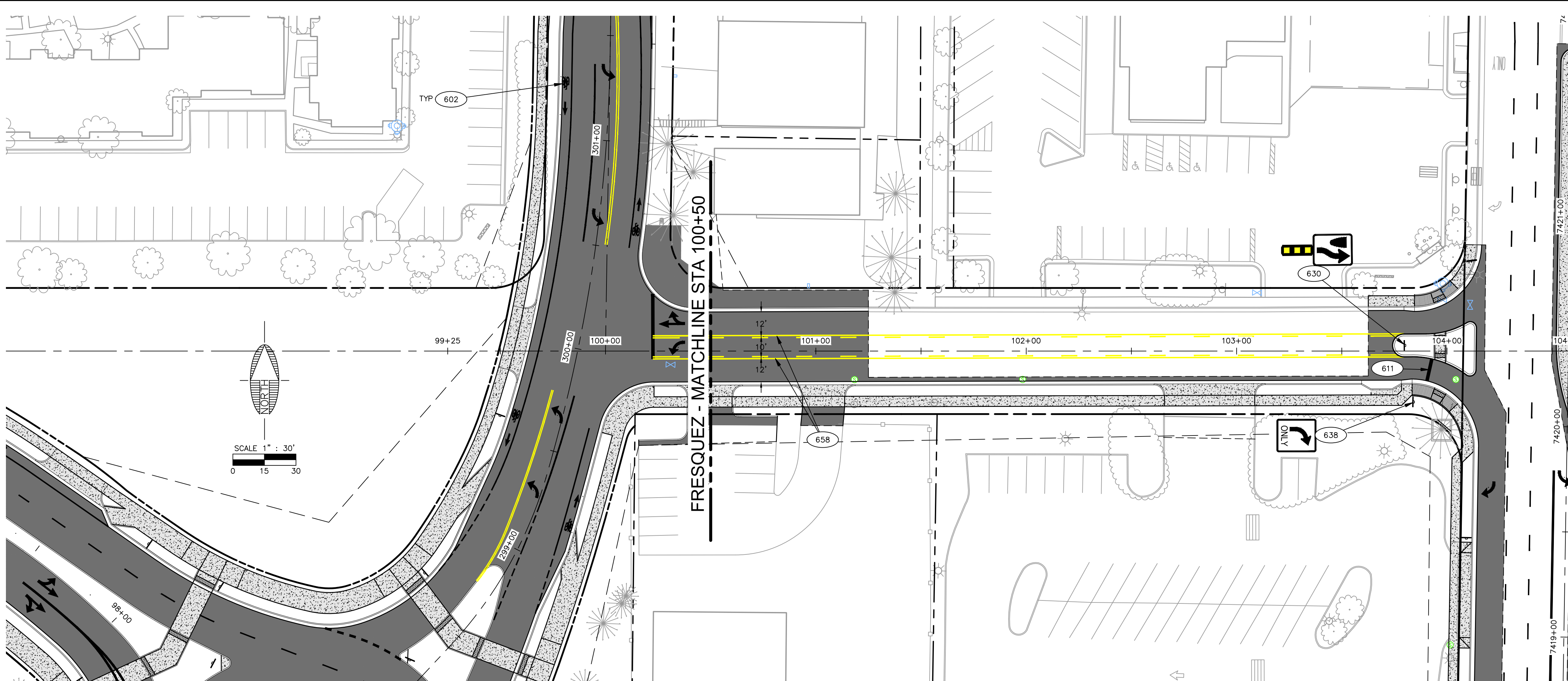
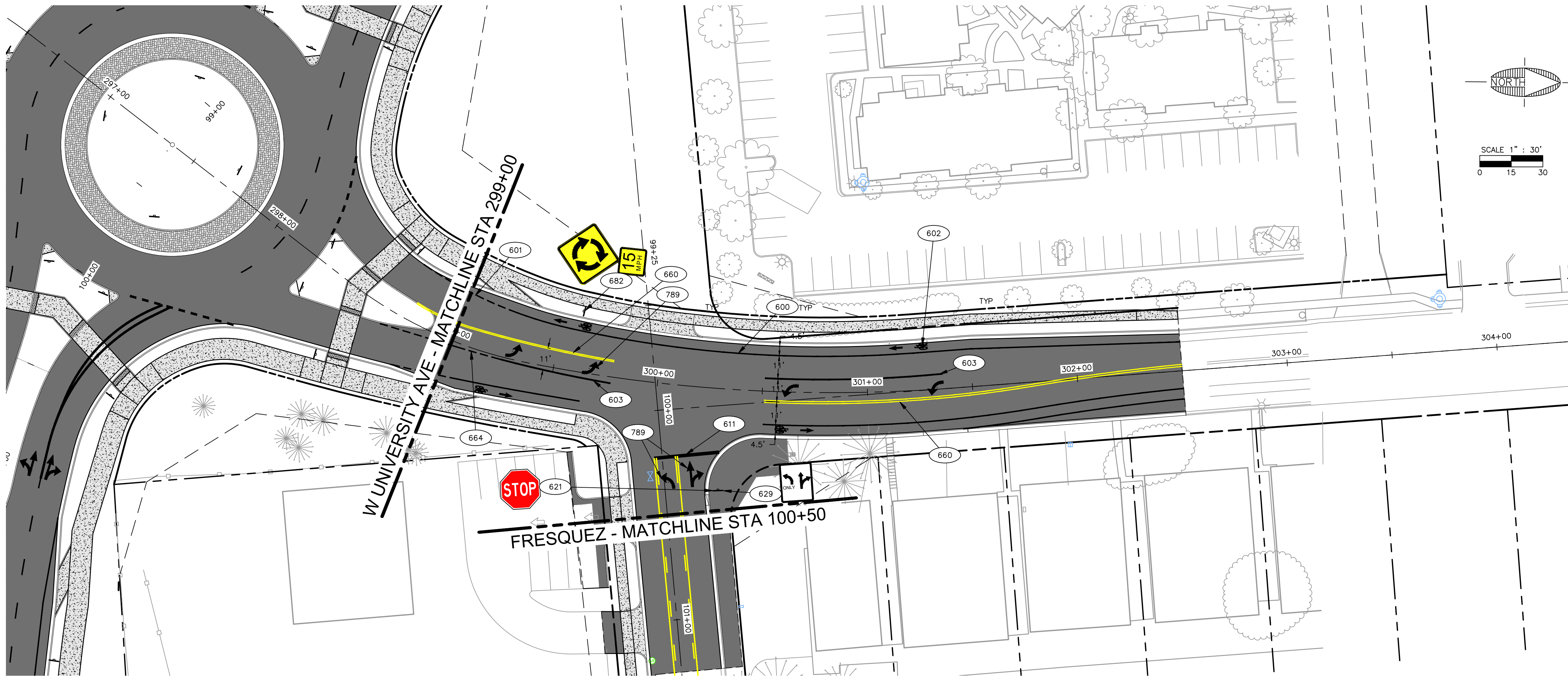
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Arizona Blue Stakes, Inc.  
888-84-1111 or 1-800-514-1111 (822-5348)

DRAWING NO. **SS03**

SHT NO. 35 OF 62

C.O.F. Project #PZ XX-XXXX



**CITY IMPROVEMENTS - STRIPING & SIGNAGE**

- 621 1 EA INSTALL STOP SIGN (R-1) PER MUTCD.
- 638 1 EA INSTALL RIGHT TURN ONLY SIGN (R3-5R) PER MUTCD. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 629 1 EA INSTALL "ADVANCE INTERSECTION LANE CONTROL" SIGN (R3-) PER MUTCD AND AS SHOWN ON PLANS.
- 630 1 EA INSTALL "NARROW KEEP RIGHT" SIGN (R04-07C) PER MUTCD WITH STANDARD DELINEATOR PER COF STD DTL 10-06-011
- 682 1 EA INSTALL ROUNDABOUT SIGN (W2-6) WITH 15 MPH WARNING PLAQUE (W13-1P) PER MUTCD.
- 600 690 LF INSTALL WHITE BIKE LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010.
- 601 25 LF INSTALL WHITE BIKE LANE DASHED STRIPING PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 602 4 EA INSTALL WHITE BIKE LANE PAVEMENT MARKINGS PER C.O.F. STD. DETAIL 16-06-010.
- 603 140 LF INSTALL 8" WHITE TURN LANE STRIPING PER C.O.F. STD. DETAIL 16-06-010 AND ADOT SPEC 709 FOR EPOXY. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 611 42 LF INSTALL 18" WHITE STOP BAR PER C.O.F. STD. DETAIL 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 658 720 LF INSTALL 6" YELLOW SOLID / 6" YELLOW BROKEN STRIPE (10' SEGMENT WITH 30' GAPS), PER ADOT DWG. M-2. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 660 300 LF INSTALL 6" DOUBLE YELLOW CENTERLINE STRIPING PER ADOT DWG. M-2 AND C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 664 22 LF INSTALL 6" WHITE STRIPING (SKIP LINE), 1' SEGMENT WITH 3' GAPS PER C.O.F. STD. DTL. 16-06-010. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 789 6 EA INSTALL PAVEMENT MARKING ARROW IN ACCORDANCE WITH ADOT STANDARD DETAILS M-10 & M-11 AND ADOT STANDARD SPECIFICATION 709 (EPOXY).

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Shephard Wesnitzer, Inc.

REVISIONS

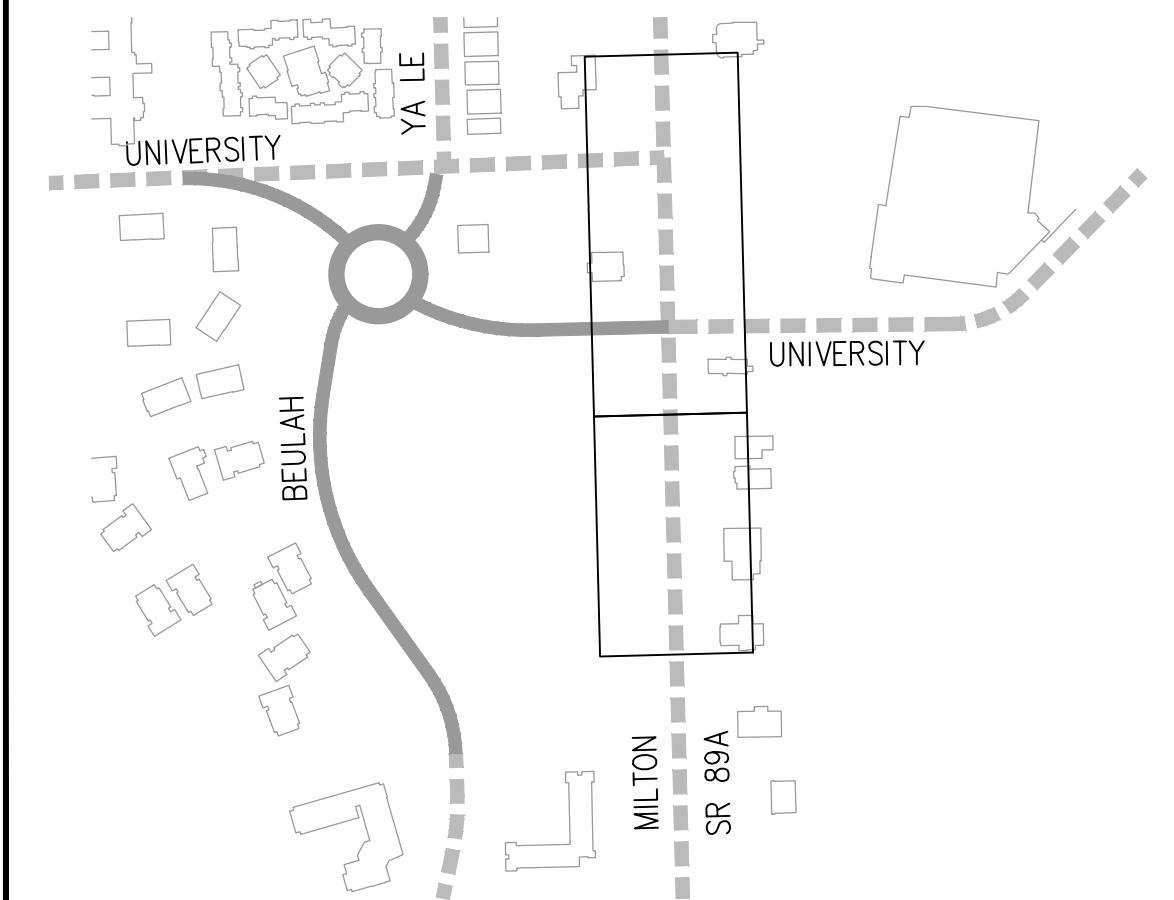
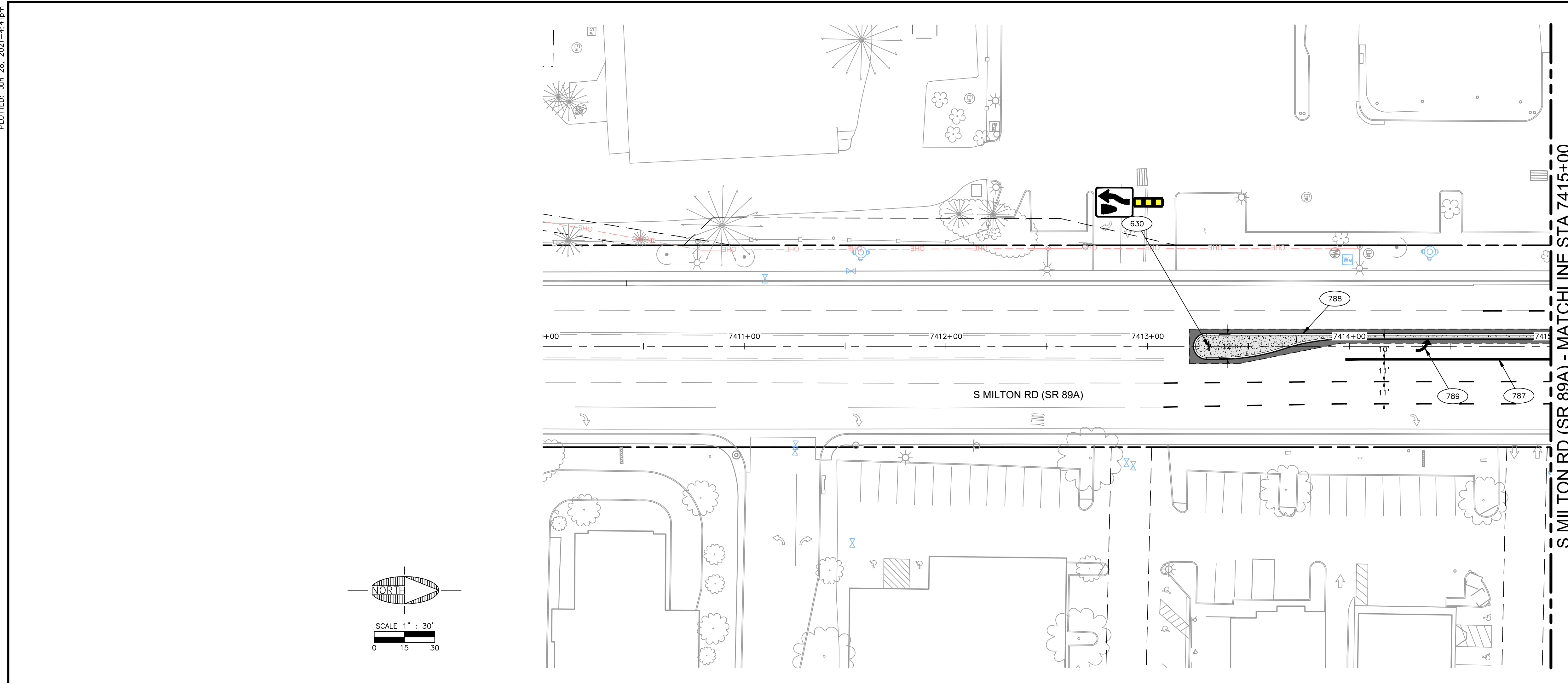
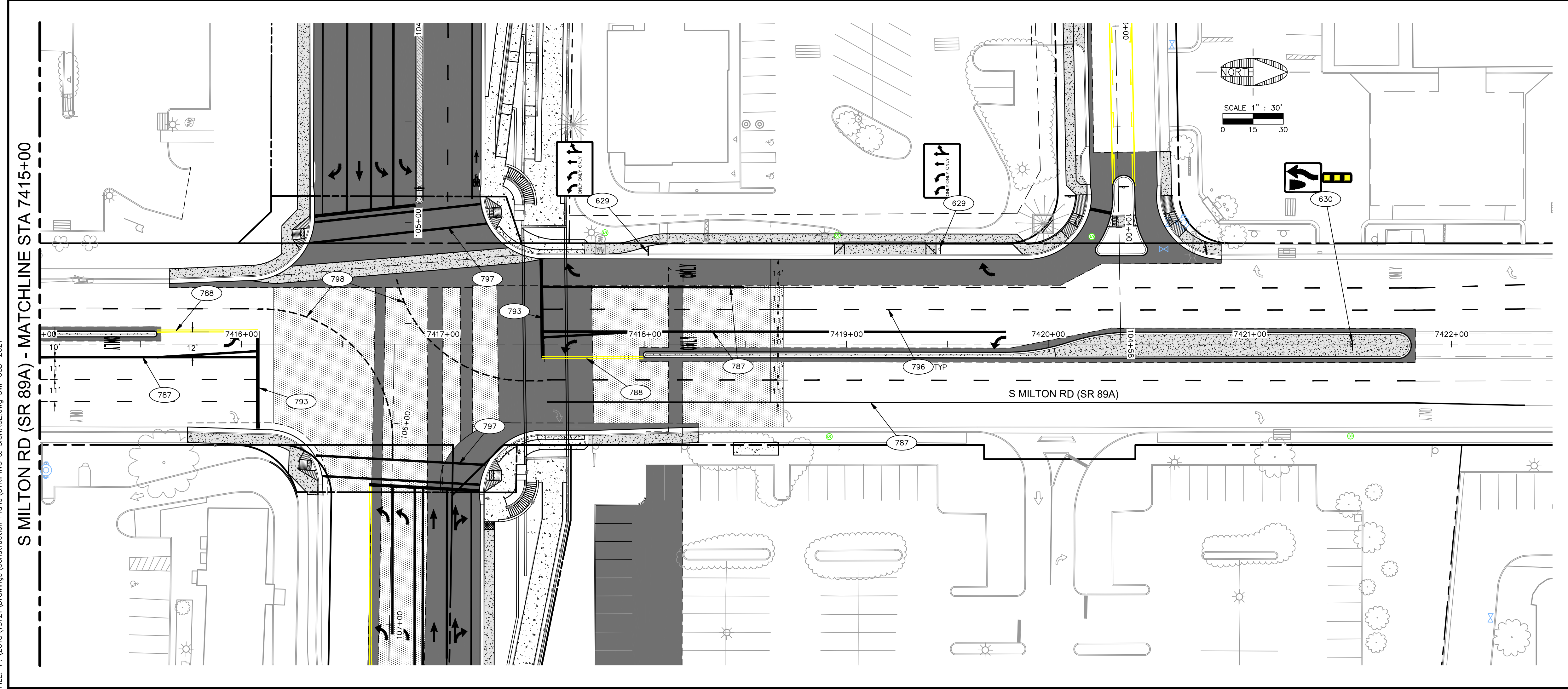
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**SS04**

SHT NO. OF  
36 OF 62



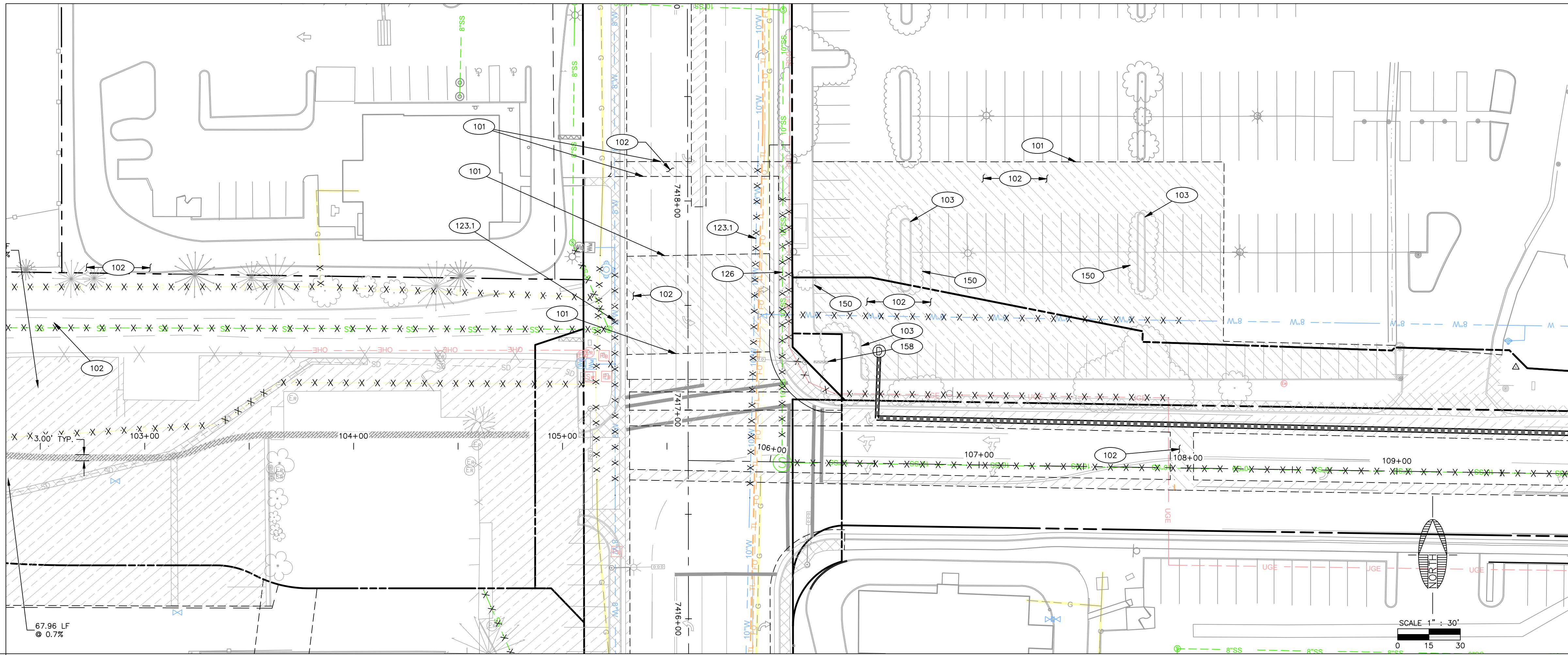
**ADOT IMPROVEMENTS - STRIPING & SIGNAGE**

- 629 2 EA INSTALL "ADVANCE INTERSECTION LANE CONTROL" SIGN (R3-) PER MUTCD AND AS SHOWN ON PLANS.
- 630 2 EA INSTALL "NARROW KEEP RIGHT" SIGN (R04-07C) PER MUTCD WITH STANDARD DELINEATOR PER COP STD DTL 10-06-011
- 787 1,125 LF INSTALL 12" SINGLE WHITE TURN LANE STRIPE IN ACCORDANCE WITH ADOT STANDARD SPECIFICATION 709 (EPOXY).
- 788 100 LF INSTALL 6" DOUBLE YELLOW STRIPE IN ACCORDANCE WITH ADOT STANDARD SPECIFICATION 709 (EPOXY).
- 789 9 EA INSTALL PAVEMENT MARKING ARROW IN ACCORDANCE WITH ADOT STANDARD DETAILS M-10 & M-11 AND ADOT STANDARD SPECIFICATION 709 (EPOXY).
- 793 201 LF INSTALL 18" WHITE STOP BAR PER ADOTSTANDARD DETAIL M2. HORIZONTAL PLACEMENT AS SHOWN ON PLANS
- 796 1,930 LF INSTALL 6" WHITE STRIPING CONSISTING OF 10' SEGMENTS WITH 30' GAPS PER ADOT DWG. M-4. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.
- 797 352 LF INSTALL HIGH-VISIBILITY CROSSWALK MARKING PER ADOT STANDARD DETAIL M2.
- 798 210 LF INSTALL 6" WHITE STRIPING (SKIP LINE), 1' SEGMENT WITH 3' GAPS PER ADOT DWG. M-2. HORIZONTAL PLACEMENT AS SHOWN ON PLANS.

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DRAWING NO. <b>SS05</b>										SHT NO. 37 OF 62	
C.O.F. Project #PZ XX-XXXX											

FLAGSTAFF ARIZONA  
 BEULAH & UNIVERSITY IMPROVEMENT PLANS  
**SIGNAGE & STRIPING-MILTON (5) ADOT**



67.96 LF  
@ 0.7%

SCALE 1" = 30'  
0 15 30

**CITY IMPROVEMENTS - PAVING & STORM**

101	733	LF SAWCUT EXISTING PAVEMENT PER MAG SPECS 336 AND 350.
102	25,240	SF REMOVE EXISTING AC PAVEMENT PER MAG SPECS 336 AND 350.
103	390	LF REMOVE AND DISPOSE OF EXISTING CONCRETE CURB PER MAG SPECS 336 AND 350. CURB AND GUTTER SHALL BE REMOVED TO NEAREST JOINT.
110	1	EA REMOVE EXISTING WATER SERVICE LINE AND REMOVE AND SALVAGE EXISTING WATER METER(S) PER ADOT SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH CITY WATER SERVICES DEPARTMENT ON WHERE TO STORE SALVAGED METER.
123.1	2	EA CUT, CAP, AND ABANDON EXISTING WATER MAIN IN PLACE PER M.A.G. SPECS. 336 & 350.
126	1	EA CUT, CAP, AND ABANDON EXISTING SEWER MAIN IN PLACE PER M.A.G. SPECS. 336 & 350.
150	3	EA REMOVE AND DISPOSE OF EXISTING TREE AND ROOTBALL PER M.A.G. SPECS. 336 & 350. CONTRACTOR TO REMOVE TREES FROM SITE THE SAME DAY THEY ARE DOWNED.
158	1	EA REMOVE AND RELOCATE MONUMENT SIGN TO LOCATION SHOWN ON PLAN.

FLAGSTAFF  
ARIZONA  
BEULAH & UNIVERSITY IMPROVEMENT PLANS

JOB NO.	18121
DATE	JUN 21
SCALE	AS SHOWN
DRAWN	KMF/BH
DESIGN	KMF
CHECKED	SCI

110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.774.8354  
928.774.8934 fax  
www.swi.az.com

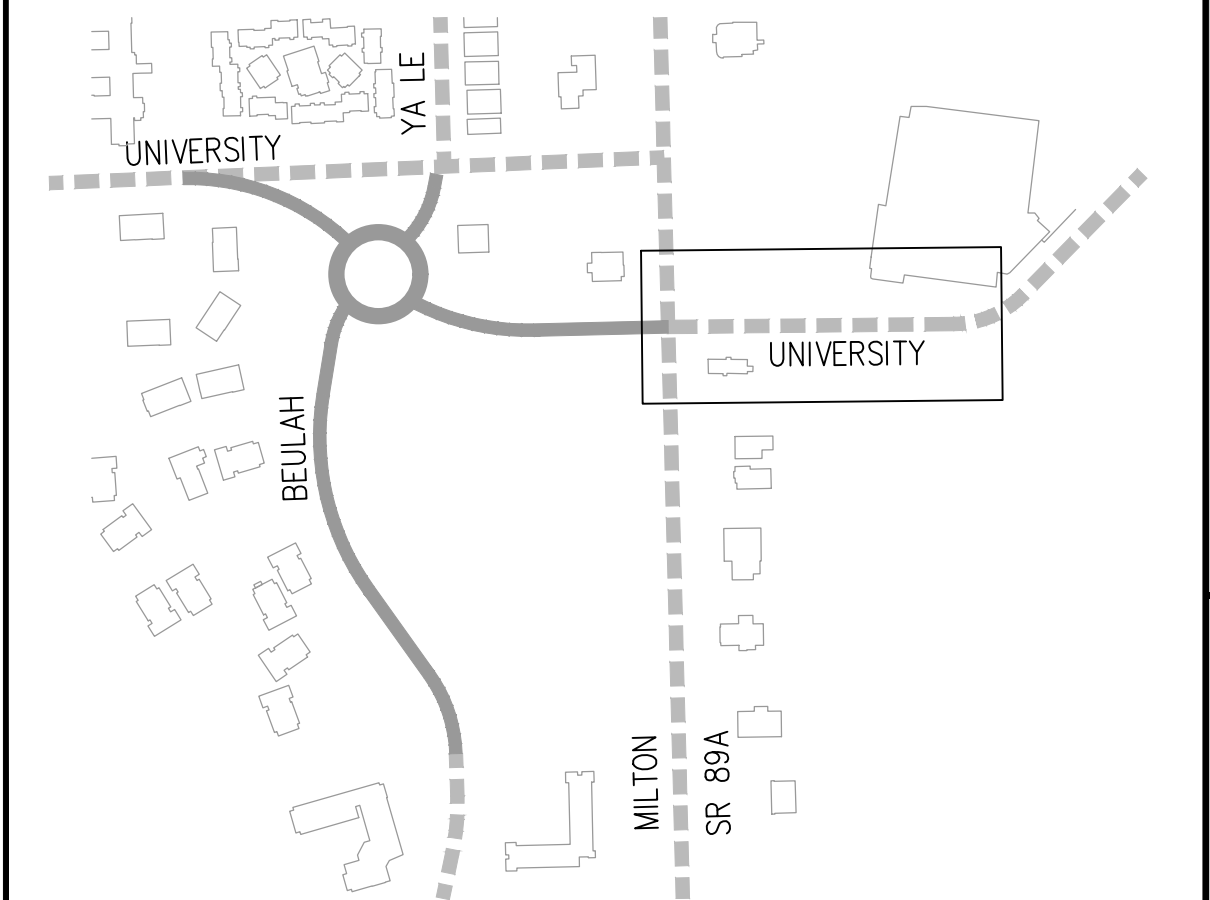
**SWI**  
Shephard Wesnitze, Inc.

**NON-CITY DRY UTILITY CONFLICTS**

- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
- (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
- (C) QWEST RELOCATION AND DESIGN BY OTHERS
- (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

**GENERAL SHEET NOTES**

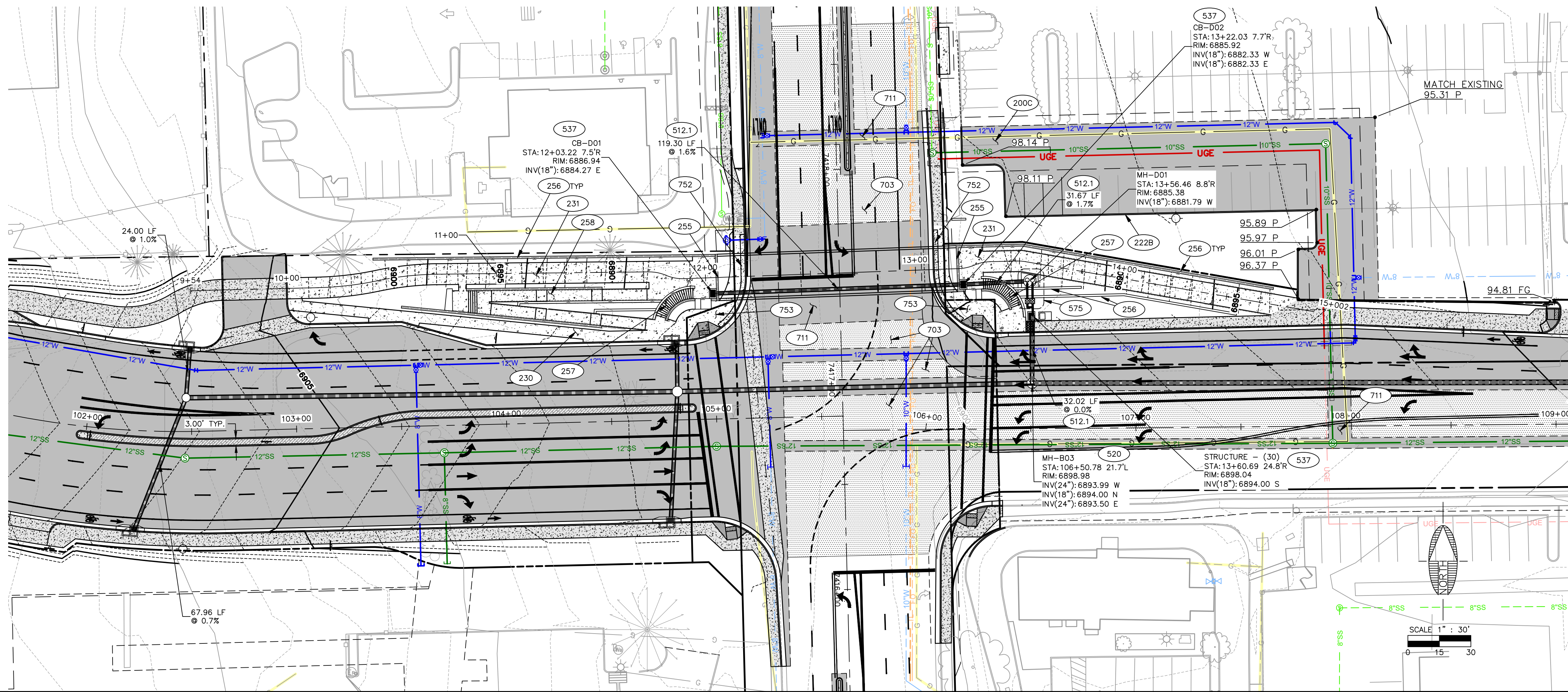
1. HORIZONTAL CONTROL ON THIS PLAN IS TO BACK OF CURB BASED OFF THE PLAN CENTERLINE.
2. VERTICAL ELEVATIONS SHOWN ON THIS PLAN ARE TO TOP OF CURB AT THE BACK OF CURB. CENTER MEDIAN ELEVATIONS CAN BE CALCULATED FROM THE TYPICAL SECTIONS AND CENTERLINE AND OFFSET ELEVATIONS SHOWN ON THE PLANS.
3. ALL SIDEWALK AND FULTS TRAILS SHOWN ON THIS PLAN TO HAVE 1.5% CROSS SLOPE TOWARDS THE ROADWAY EXCEPT FOR CROSSINGS WITHIN THE ROADWAY.
4. ALL RADI LISTED ON THIS PLAN ARE TO BACK OF CURB OR EDGE OF SIDEWALK.



**60% PRELIMINARY**  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

NO.	DESCRIPTION	DATE	BY

Call at least two full working days before you begin excavation.  
**ARIZONA 811**  
Arizona Blue Stakes, Inc.  
808 841-1111 or 1-800-514-1111 (782-5348)  
DRAWING NO. **UP01**  
SHT NO. 38 OF 62



CITY IMPROVEMENTS - PAVING & STORM

200C	1,073 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER C.O.F. STD. DTL. 10-09-010 AND PER DETAIL '3' ON DWG DT03 OR MATCH EXISTING STRUCTURAL SECTION, WHICHEVER IS GREATER.
222B	400 LF	CONSTRUCT SINGLE CURB PER M.A.G. STD. DTL. 222 TYPE 'B' AND DETAIL 'X' ON DWG DT03.
230	1,136 SF	CONSTRUCT CONCRETE SIDEWALK PER M.A.G. STD. DTL. 230 (WIDTH PER PLAN 5' TYPICAL).
231	3,970 SF	CONSTRUCT F.U.T.S. PATH PER C.O.F. STD. DTL. 14-01-010 (WIDTH PER PLAN 8' OR 10' TYPICAL).
255	1 EA	PEDESTRIAN UNDERPASS AND INSTALLATION PER DETAILS ON SHEET DT04. 10'X 20'X 114' CONTECH CON/SPAN B-SERIES PRECAST CONCRETE UNDERPASS.
256	580 LF	RETAINING WALL PER PLAN BY OTHERS.
257	2 EA	CONSTRUCT STAIRS PER PLAN BY OTHERS.
258	1 EA	CONSTRUCT UNDERPASS ADA RAMP PER PLAN BY OTHERS.
512.1	183 LF	INSTALL 18" DIA RGRCP (CLASS 5) PER M.A.G. SPEC. SECTION 618, TRENCH, EXCAVATION, BACKFILLING, AND COMPACTION PER M.A.G. SPEC. SECTION 601 AND C.O.F. STD. DETAIL 09-01-031.
575	1 EA	CONSTRUCT PUMP ASSEMBLY PER DETAIL ON DWG DT03 AND AS SHOWN PER PLAN. INSTALL CONCRETE PAVEMENT AROUND MANHOLE PER PLAN AND PER C.O.F. STD. DTL. 10-03-062.
703	675 SY	PERFORM 2" MILL PER ADOT SPECIFICATIONS 402-4 AND ASPHALT PAVEMENT OVERLAY PER ADOT SPECIFICATIONS 405. MILL LIMITS ARE TO THE NEAREST PROPOSED LANE STRIPE AS SHOWN ON THIS PLAN.
711	117 SY	CONSTRUCT ASPHALT PAVEMENT SECTION PER ADOT SPECIFICATIONS SECTION 406 AND PER DETAIL '1' ON DWG DT03.
752	100 FT	CONSTRUCT CONCRETE HALF BARRIER 32" TYPE F PER ADOT STANDARD DRAWING C-10.51 WITH BARRIER GUTTER AND PER ADOT SPECS SECTION 601.
753	1,107 SF	CONSTRUCT CONCRETE SIDEWALK PER ADOT STANDARD DRAWING C-05.20 AND PER ADOT SPECS SECTION 601.

FLAGSTAFF ARIZONA

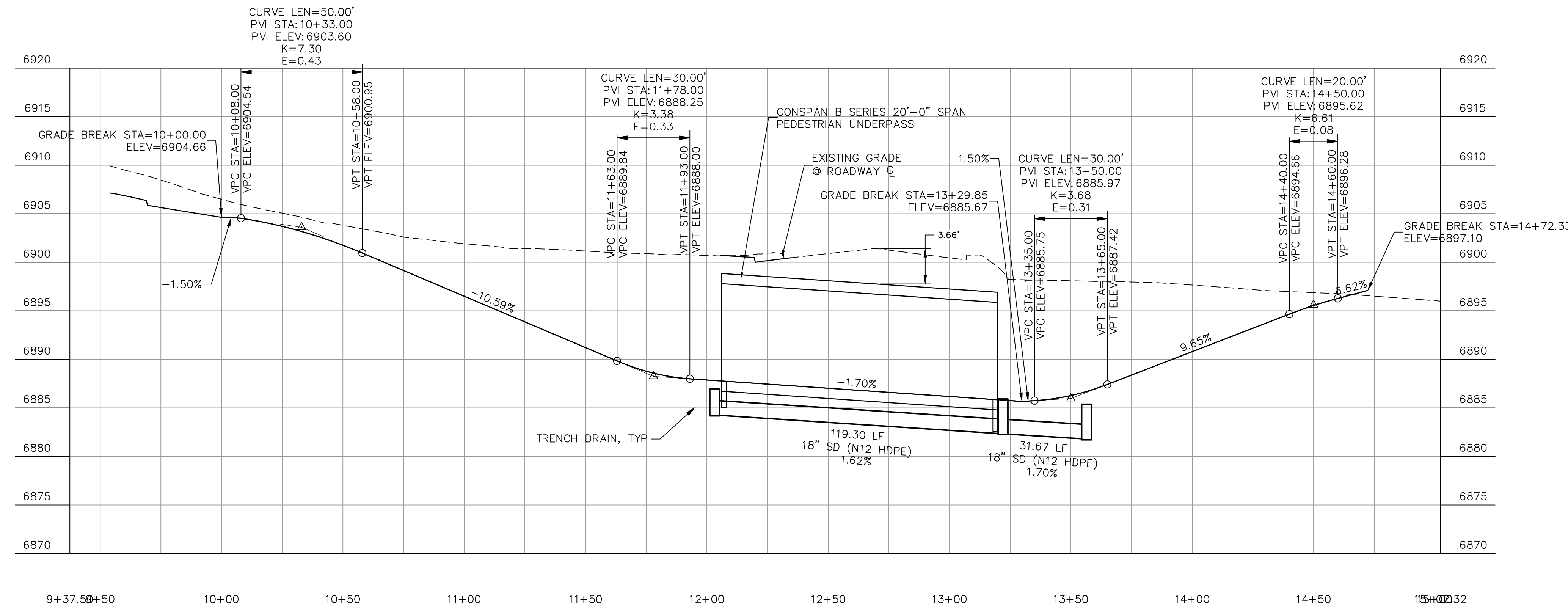
BEULAH & UNIVERSITY IMPROVEMENT PLANS

PAVING & STORM-UNDERPASS BOP TO STA 209+50

JOB NO:	18121
DATE:	JUN 21
SCALE:	AS SHOWN
DRAWN:	KMF/BH
DESIGN:	KMF
CHECKED:	SCI

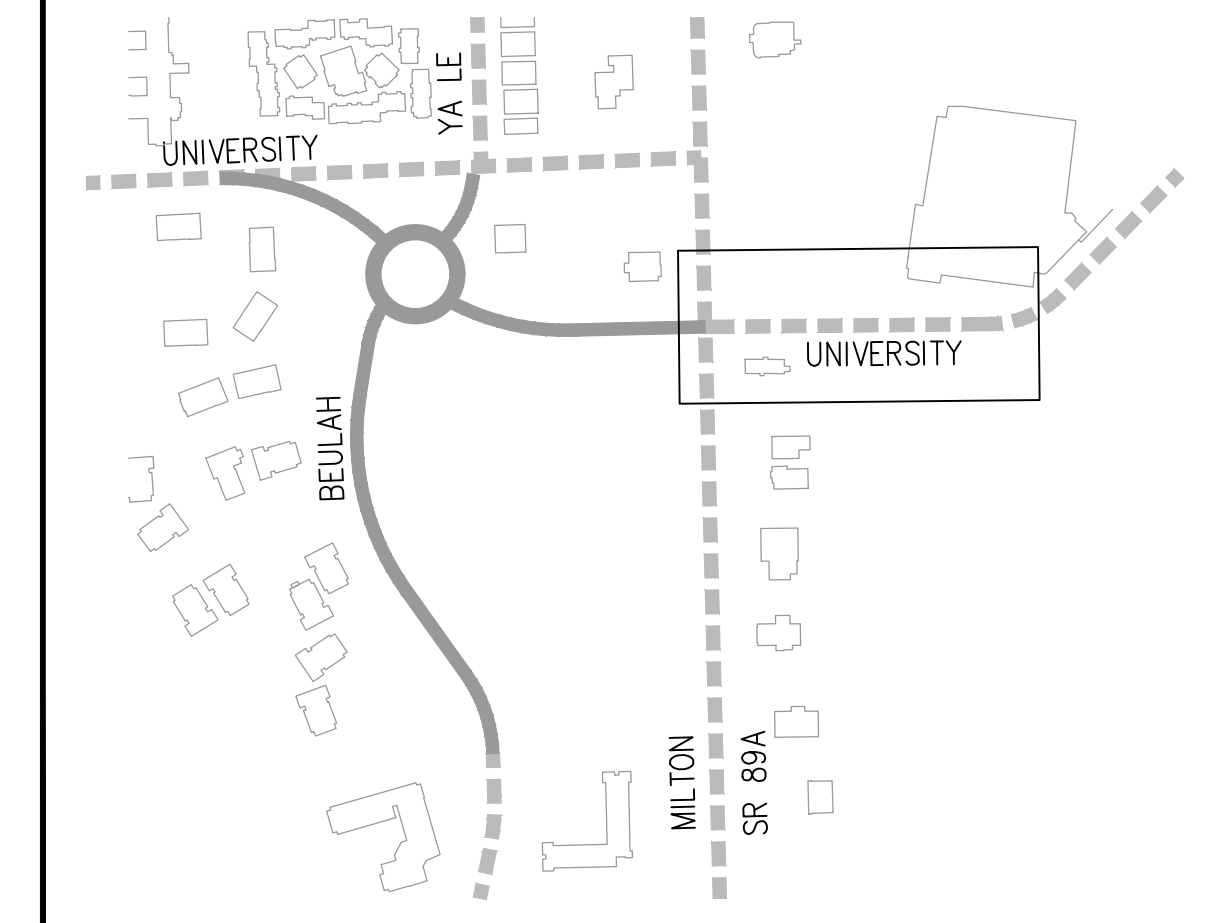
1275 N. MILTON ROAD, SUITE 101  
 BEULAH, ARIZONA 86013  
 PHONE: 928.238.9384 FAX: 928.238.9384  
 WWW.SWI.COM

Shephard Wesnitzer, Inc.



GENERAL SHEET NOTES

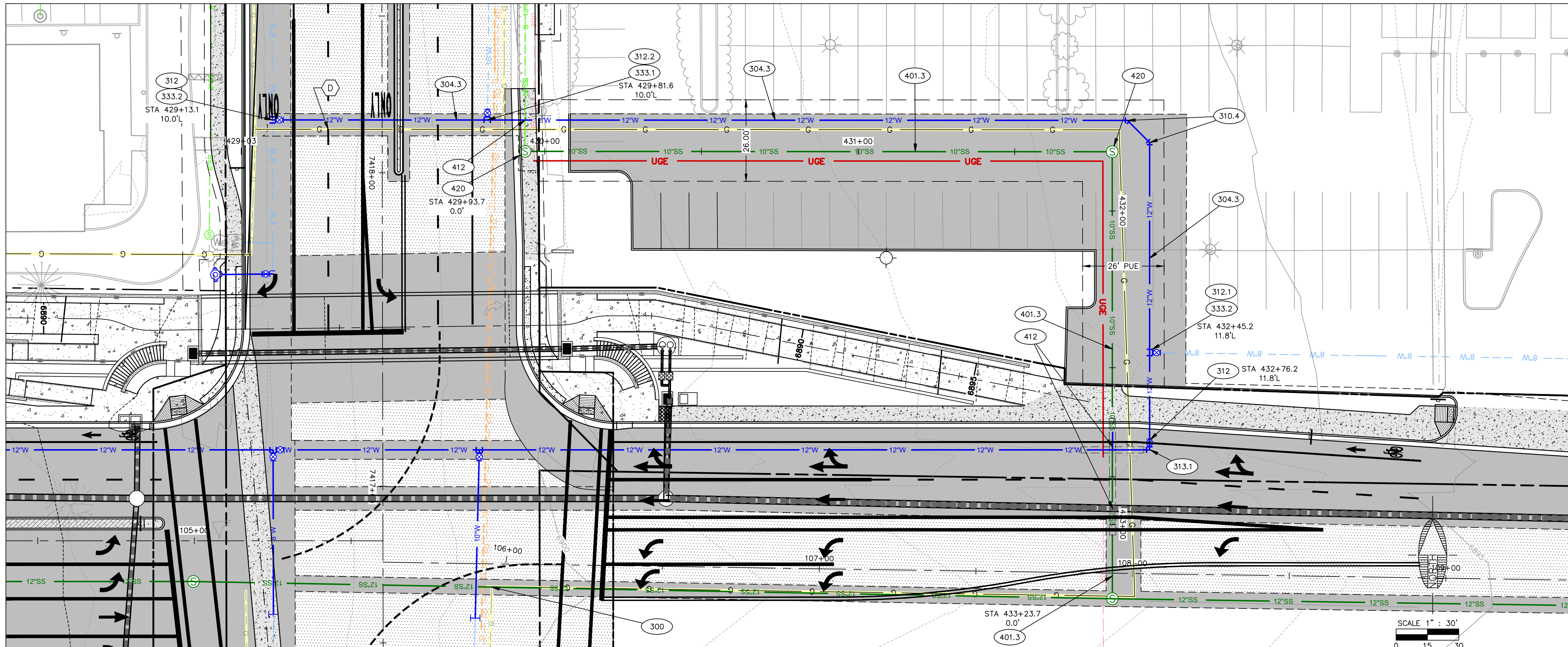
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60%  
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NO.	DESCRIPTION	DATE	BY

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**ARIZONA 811**  
 Arizona Blue Stakes, Inc. (928-5348)  
 888 84-1111 or 1-800-514-1111



**CITY IMPROVEMENTS - WATER & SEWER**

- (304.3) 381 LF INSTALL 12" WATERLINE (C-900/CL 305 PVC/DR14) INCLUDING ALL APPURTENANCES PER M.A.G. SPEC. SECTION 601 AND 610 AND AS MODIFIED IN THE C.O.F. REVISIONS TO M.A.G. SECTION 13-21-01-0601. INSTALL TRACER WIRE ALONG WATERLINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (310.4) 2 EA INSTALL 12", 45 DEG. HORIZONTAL BEND WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (312) 2 EA INSTALL 12" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (312.1) 1 EA INSTALL 8" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380. FLANGE TO TEE WHEN NEXT TO VALVE PER PLANS.
- (312.2) 1 EA INSTALL 10" GATE VALVE WITH CLASS 250 EPOXY-COATED RESILIENT SEAT (INCLUDING VALVE BOX AND COVER) PER MAG STD DTL 340 AND MAG SPEC 610. ADJUST BOX TO FINISH GRADE PER COF STD DTL 9-03-060 AND 9-03-62 ON DWG DT01. THRUST BLOCK PER MAG STD DTL 301 AND AS MODIFIED BY COF REVISIONS TO MAG SECTION 13-21-002-0380.
- (313.1) 1 EA INSTALL 12", 90 DEG. HORIZONTAL BEND DIP CLASS 250, WITH JOINT RESTRAINT PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (333.1) 1 EA INSTALL 12"x10" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (333.2) 2 EA INSTALL 12", 8" TEE DIP CLASS 250, WITH JOINT RESTRAINTS PER M.A.G. STD. DTL. 303 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-002-0380.
- (401.3) 330 LF INSTALL 10" POLYVINYL CHLORIDE (PVC), SDR-35, SEWER MAIN PER M.A.G. SPECS. 601 & 615 AND AS MODIFIED BY C.O.F. REVISIONS TO M.A.G. SECTION 13-21-001-0601. INSTALL TRACER WIRE ALONG SEWER LINE PER C.O.F. STD. DTL. 9-01-020 ON DWG DT01 AND C.O.F. SECTION 13-09-001-0002. TRENCH EXCAVATION, BACKFILLING, AND COMPACTION PER C.O.F. STD. DTL. 9-01-030, 9-01-031, AND 9-01-032 ON DWG DT01.
- (412) 3 EA INSTALL PIPE CROSSING ENCASMENT PER M.A.G. STD. DTL. 404-3.
- (420) 2 EA INSTALL 48" DIA. SEWER PRE-CAST (WATER-TIGHT) MANHOLE PER M.A.G. STD. DTL. 420 AND C.O.F. STD. DTL. 9-02-082 AND C.O.F. SECTION 13-09-0002-0007. INSTALL 24" (WATER-TIGHT) FRAME & COVER PER M.A.G. STD. DTL. 424 AND C.O.F. STD. DTL. 9-03-062. ROTATE CONE SO MANHOLE COVER IS NOT IN CURB AND ADJUST FRAME AND COVER TO FINISH GRADE PER M.A.G. STD. DTL. 422.

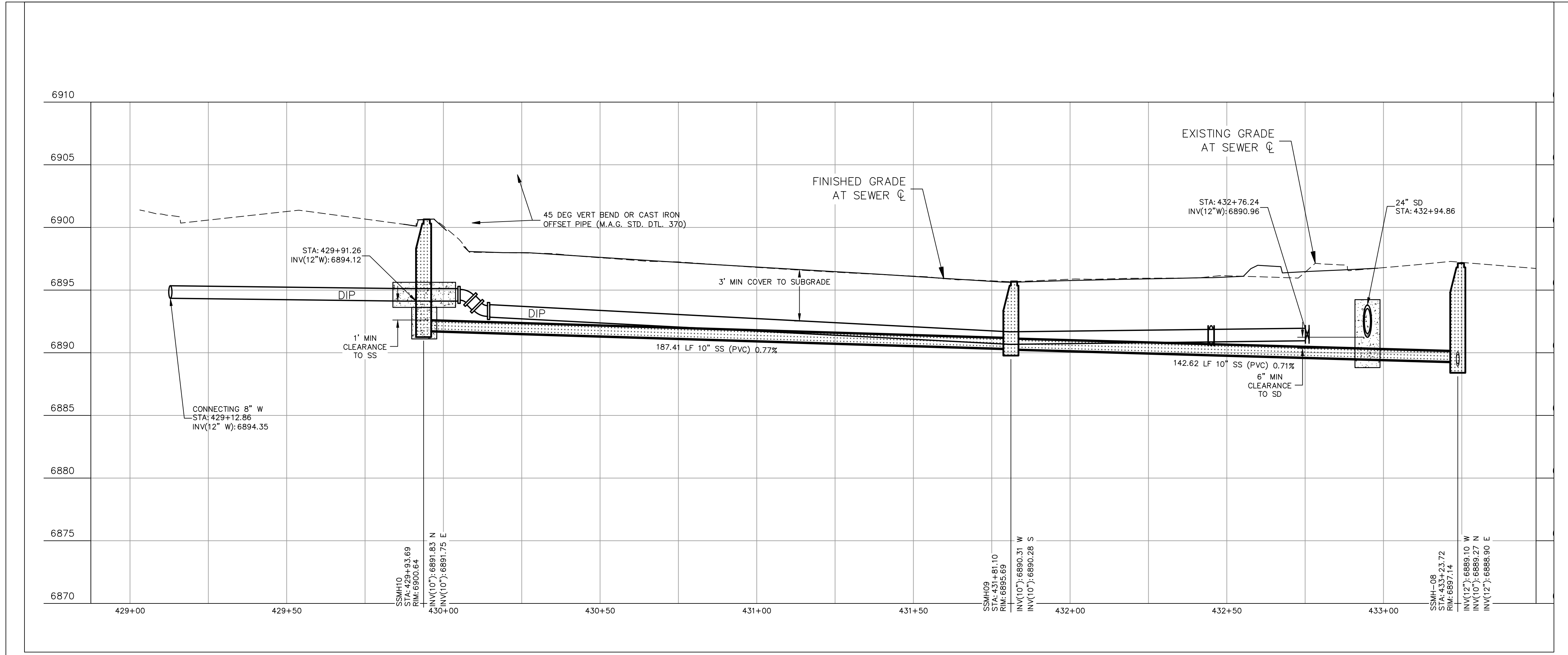
FLAGSTAFF ARIZONA

BEULAH & UNIVERSITY IMPROVEMENT PLANS

WATER & SEWER-UNDERPASS  
BOP TO STA 209+50

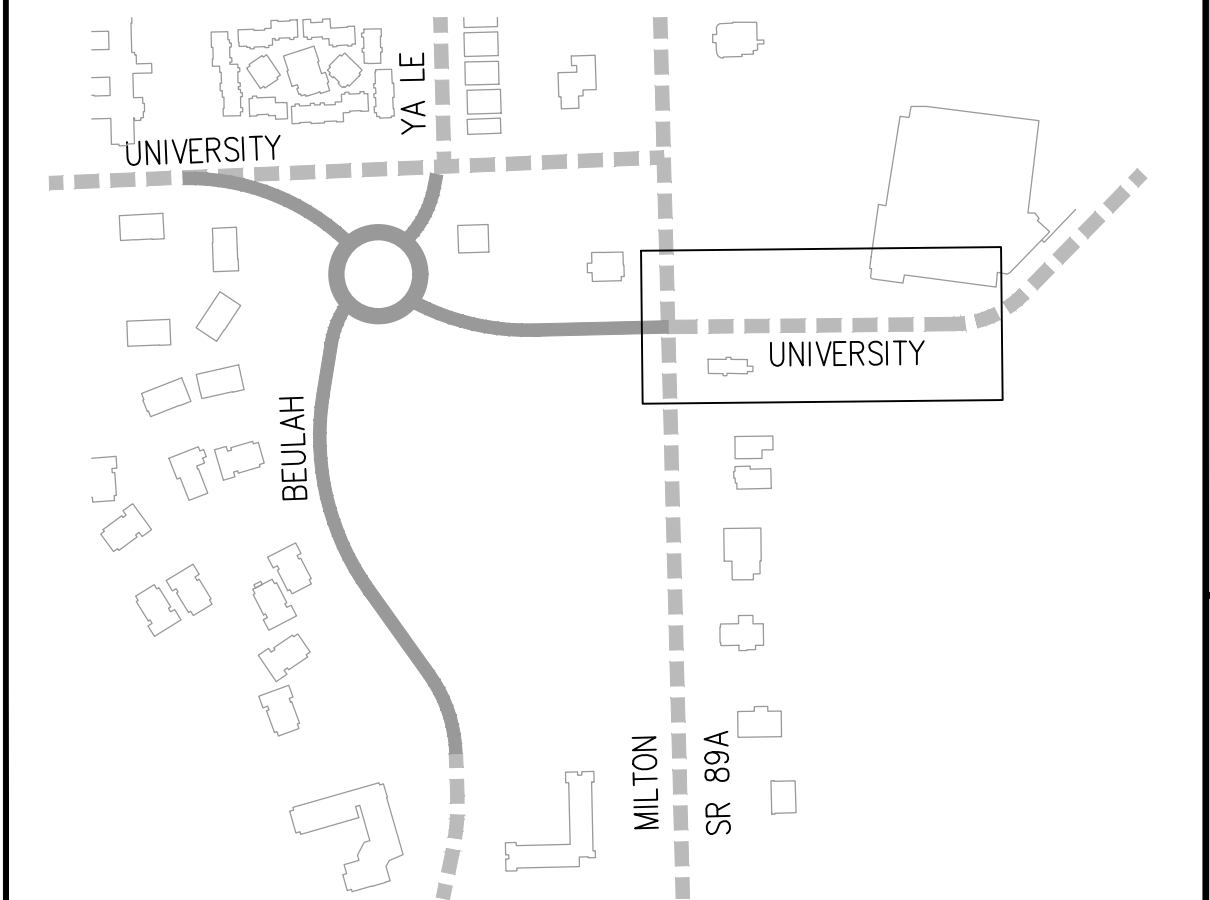
JOB NO: 18121  
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DESIGN: KMF  
CHECKED: SCI

1272 E. University Blvd. Suite 100  
Flagstaff, AZ 86001  
Phone: 928.753.6384  
Fax: 928.753.6384  
www.swiqz.com



- NON-CITY DRY UTILITY CONFLICTS**
- (A) APS (POWER) RELOCATION AND DESIGN BY OTHERS
  - (B) NPG CABLE RELOCATION AND DESIGN BY OTHERS
  - (C) QWEST RELOCATION AND DESIGN BY OTHERS
  - (D) UNISOURCE (GAS) ENERGY RELOCATION AND DESIGN BY OTHERS

**GENERAL NOTE**  
WATER LINES SHALL BE INSTALLED PER CITY OF FLAGSTAFF STANDARD DETAIL 09-01-010 AND HAVE A MINIMUM OF 3' OF COVER FROM THE SUBGRADE ELEVATION.



**60% PRELIMINARY**  
NOT FOR CONSTRUCTION,  
BIDDING OR RECORDING

NO.	DESCRIPTION	DATE	BY

Call at least two full working days before you begin excavation.

**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-538-8811 or 1-800-514-1111)

DRAWING NO. **UP03**

SHT NO. 40 OF 62

C.O.F. Project #PZ XX-XXXX



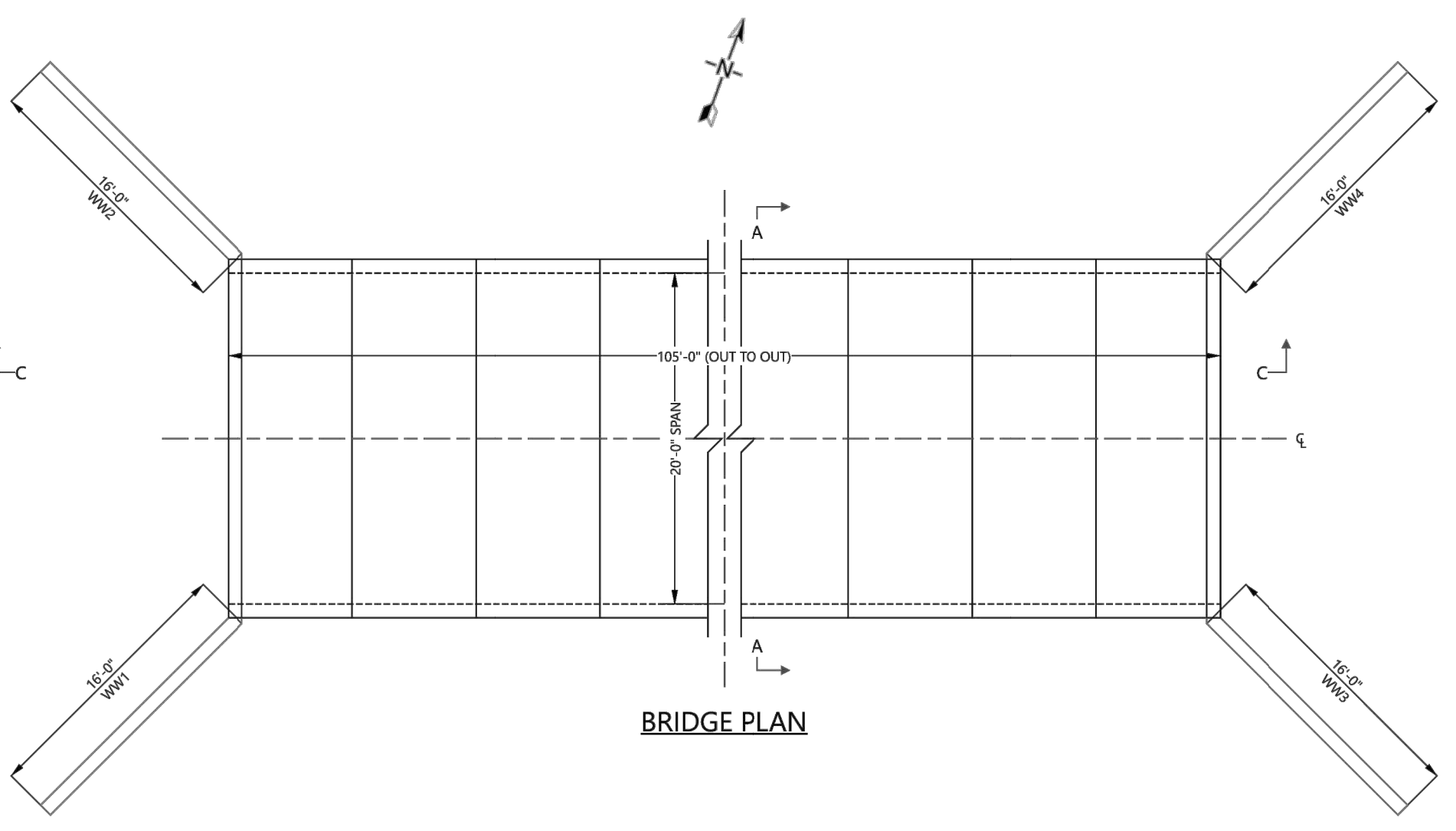
NOTES  
GENERAL NOTES:

1. THIS BRIDGE HAS BEEN DESIGNED FOR GENERAL SITE CONDITIONS. THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR THE STRUCTURE'S SUITABILITY TO THE EXISTING SITE CONDITIONS AND FOR THE HYDRAULIC EVALUATION - INCLUDING SCOUR AND CONTAMINATION OF SOIL CONDITIONS.
2. PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.
3. ONLY CONTECH ENGINEERED SOLUTIONS LLC, THE CONSPAN® APPROVED PRECASTER IN ALABAMA MAY PROVIDE THE STRUCTURE DESIGNED IN ACCORDANCE WITH THESE PLANS.
4. THE USE OF ANOTHER PRECAST STRUCTURE WITH THE DESIGN ASSUMPTIONS USED FOR THE CONSPAN® STRUCTURE MAY LEAD TO SERIOUS DESIGN ERRORS. USE ONLY OTHER PRECAST STRUCTURE WITH THIS DESIGN AND DRAWINGS VOIDS ANY CERTIFICATION OF THIS DESIGN AND WARRANTY. CONTECH Engineered Solutions, LLC ASSUMES NO LIABILITY FOR DESIGN OF AN ALTERNATE OR SIMILAR TYPE STRUCTURES.
5. ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF ALABAMA, EMPLOYED BY THE PRECAST CONCRETE BRIDGE SUPPLIER, ARE SUBMITTED TO THE ENGINEER 2 WEEKS PRIOR TO THE BID DATE FOR REVIEW AND APPROVAL.
6. ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT THE ALTERNATE DESIGN DOES NOT REDUCE THE HYDRAULIC OPENING OF THE STRUCTURE AS SHOWN ON THE DRAWINGS. AT A MINIMUM THE ALTERNATE STRUCTURE MUST PROVIDE THE SAME OR LARGER SPAN AND RISE AS THE STRUCTURE SHOWN ON THE DRAWINGS.
7. THE PRECAST ARCH SUPPLIER MUST ATTEND THE PRE-BID MEETING, IF ONE IS HELD.
8. SUPPLIER OF PROPOSED ALTERNATES TO A CONSPAN® BRIDGE SYSTEM MUST SUBMIT AT LEAST TWO (2) INDEPENDENTLY VERIFIED FULL SCALE LOAD TESTS THAT CONFIRM THE PROPOSED DESIGN METHODOLOGY OF THE THREE SIDEARCH STRUCTURES. THE PROPOSED ALTERNATE, UPON SATISFACTORY CONFIRMATION OF DESIGN METHODOLOGY, MAY BE CONSIDERED AN ACCEPTABLE ALTERNATE.
9. PROPOSED ALTERNATE STRUCTURES MAY BE CONSIDERED, PROVIDED THAT THE PRECAST CONCRETE BRIDGE STRUCTURES ARE PROVIDED BY A SUPPLIER THAT HAS A MINIMUM OF TWO (2) REGISTERED PROFESSIONAL ENGINEERS ON STAFF THAT ARE DEDICATED TO THE DESIGN OF THESE TYPES OF STRUCTURES. SUPPLIER MUST PROVIDE THESE NAMES, P.E. LICENSE NUMBERS AND DATES OF HIRE AT TIME OF ALTERNATE SUBMITTAL.

DESIGN DATA  
DESIGN LOADING:  
BRIDGE UNITS: HS20  
HEADWALLS: NONE  
WINGWALLS: NONE  
DESIGN FILL HEIGHT: 1'-0" TO 4'-0"  
FROM TOP OF CROWN TO TOP OF PAVEMENT.  
DESIGN METHOD: LOAD RESISTANCE FACTOR DESIGN PER AASHTO LRFD SPECIFICATION ASSUMED NOMINAL BEARING RESISTANCE: 0.95F  
ASSUMED FACTORED BEARING RESISTANCE: 0.95F

\*AT THE TIME OF DESIGN, A GEOTECHNICAL REPORT FOR THE PROJECT SITE WAS NOT AVAILABLE. IT IS THE PROJECT ENGINEER'S, OWNER'S AND/OR THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE ACTUAL SITE CONDITIONS AT THE TIME OF CONSTRUCTION ARE CONSISTENT WITH THE ASSUMED ALLOWABLE SOIL BEARING PRESSURE WITH A GEOTECHNICAL INVESTIGATION FROM A QUALIFIED GEOTECHNICAL ENGINEER.

MATERIALS  
PRECAST UNITS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CONSPAN® SPECIFICATIONS. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSF. REINFORCING STEEL FOR FOOTINGS SHALL CONFORM TO ASTM A615 OR A996-GR40K60.



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MARK	DATE	REVISION DESCRIPTION	BY

**CONTECH ENGINEERED SOLUTIONS**  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45661  
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL DRAWING

CONSPAN B SERIES 20'-0" SPAN PEDESTRIAN UNDERPASS  
FLAGSTAFF, AZ

Project No: 060117, Seq No: 001, Date: 6/1/2021  
Designed: JDB, Checked: Approved, Sheet No: 1 OF 8

MARK	DATE	REVISION DESCRIPTION	BY

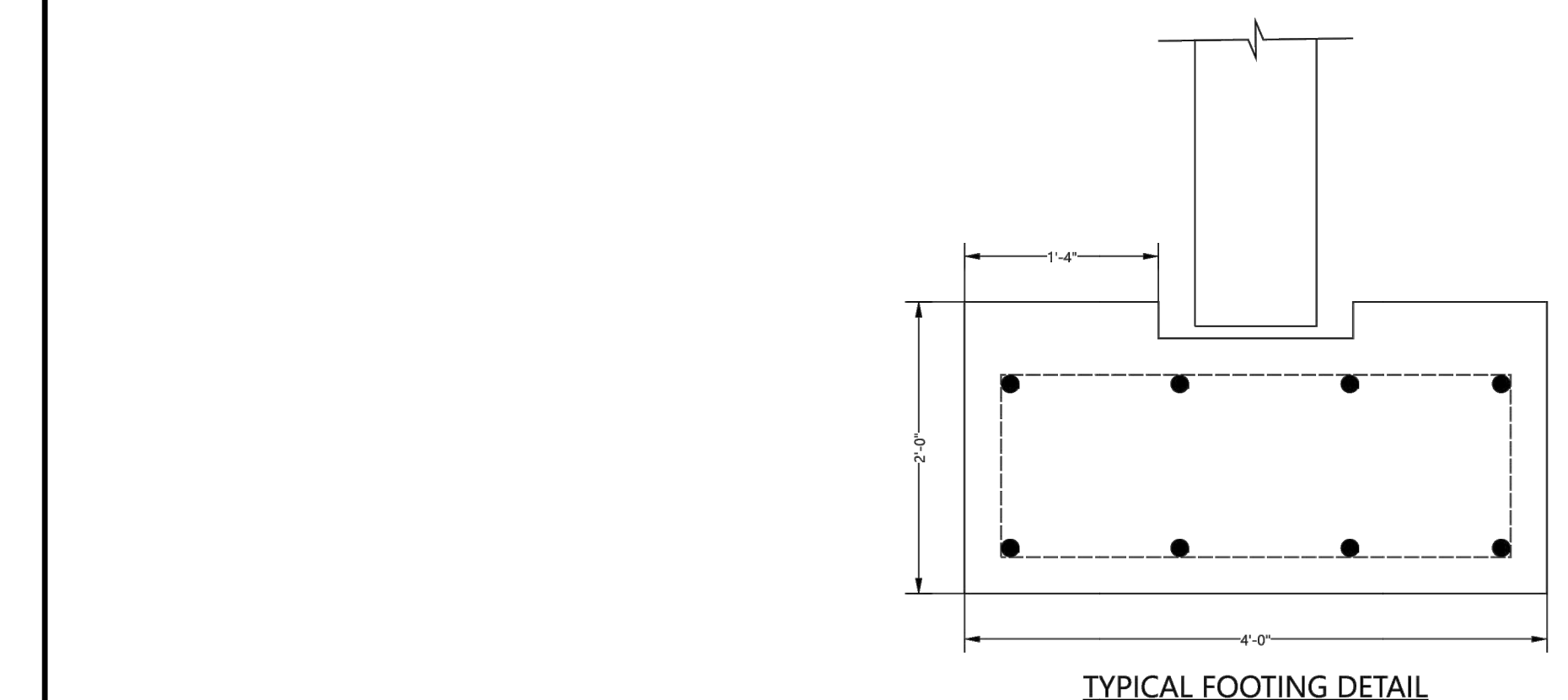
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CONSPAN B SERIES 20'-0" SPAN PEDESTRIAN UNDERPASS  
FLAGSTAFF, AZ

Project No: 060117, Seq No: 001, Date: 6/1/2021  
Designed: JDB, Checked: Approved, Sheet No: 2 OF 8

PRELIMINARY NOT FOR CONSTRUCTION



NOTES  
• FOOTING DIMENSIONS AND DETAILS SHOWN ARE CONCEPTUAL ONLY  
• FINAL DIMENSIONS & DETAILS TO BE FURNISHED BY THE PROJECT ENGINEERS  
• FOUNDATION REINFORCING TO BE DETERMINED

PRELIMINARY NOT FOR CONSTRUCTION

MARK	DATE	REVISION DESCRIPTION	BY

**CONTECH ENGINEERED SOLUTIONS**  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45661  
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL DRAWING

CONSPAN B SERIES 20'-0" SPAN PEDESTRIAN UNDERPASS  
FLAGSTAFF, AZ

Project No: 060117, Seq No: 001, Date: 6/1/2021  
Designed: JDB, Checked: Approved, Sheet No: 3 OF 8

MARK	DATE	REVISION DESCRIPTION	BY

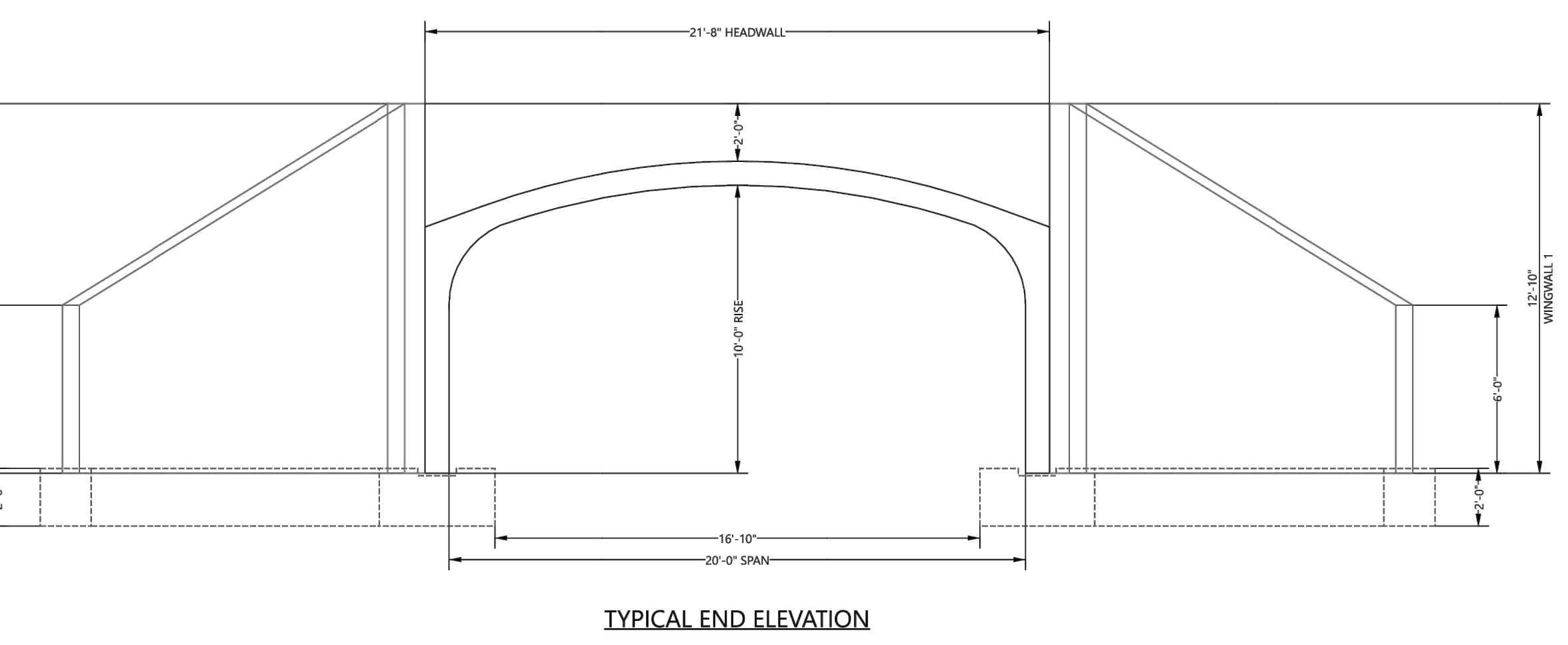
**CONTECH ENGINEERED SOLUTIONS**  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45661  
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL DRAWING

CONSPAN B SERIES 20'-0" SPAN PEDESTRIAN UNDERPASS  
FLAGSTAFF, AZ

Project No: 060117, Seq No: 001, Date: 6/1/2021  
Designed: JDB, Checked: Approved, Sheet No: 4 OF 8

PRELIMINARY NOT FOR CONSTRUCTION



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MARK	DATE	REVISION DESCRIPTION	BY

**CONTECH ENGINEERED SOLUTIONS**  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45661  
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL DRAWING

CONSPAN B SERIES 20'-0" SPAN PEDESTRIAN UNDERPASS  
FLAGSTAFF, AZ

Project No: 060117, Seq No: 001, Date: 6/1/2021  
Designed: JDB, Checked: Approved, Sheet No: 5 OF 8

MARK	DATE	REVISION DESCRIPTION	BY

**CONTECH ENGINEERED SOLUTIONS**  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45661  
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL DRAWING

CONSPAN B SERIES 20'-0" SPAN PEDESTRIAN UNDERPASS  
FLAGSTAFF, AZ

Project No: 060117, Seq No: 001, Date: 6/1/2021  
Designed: JDB, Checked: Approved, Sheet No: 6 OF 8

PRELIMINARY NOT FOR CONSTRUCTION

JOB NO:	18121
DATE:	JUN 21
SCALE:	N/A
DRAWN:	KMF/CNP
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110 W. Dole Avenue  
Flagstaff, AZ 86001  
928.774.8934  
928.774.8934 fax  
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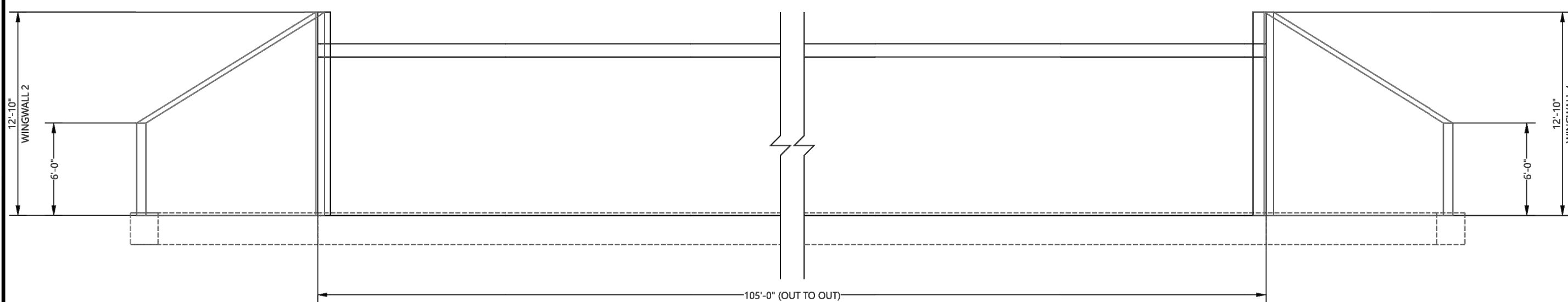
**SWI**  
Shephard Wesnitzer, Inc.

NO.	DESCRIPTION	DATE	BY

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**ARIZONA 811**  
Arizona Blue Stakes, Inc. (928-534-8111)  
808-84-1111 or 1-800-STATE-11 (928-534-8111)

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BIDDING OR RECORDING

DRAWING NO.  
**DT07**  
SHT NO. OF  
41 OF 62  
C.O.F. Project #PZ XX-XXXX



PROFILE SECTION C-C

PRELIMINARY  
NOT FOR CONSTRUCTION

Project No:	060117	Sheet No.:	001	Date:	6/1/2017
Design:		Drawn:	JDB	Checked:	Approved:
Sheet No.:	5 OF 8				

**CONTECH**  
ENGINEERED SOLUTIONS  
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45390  
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL  
DRAWING

CONSPAN B SERIES 20'-0" SPAN  
PEDESTRIAN UNDERPASS

FLAGSTAFF, AZ

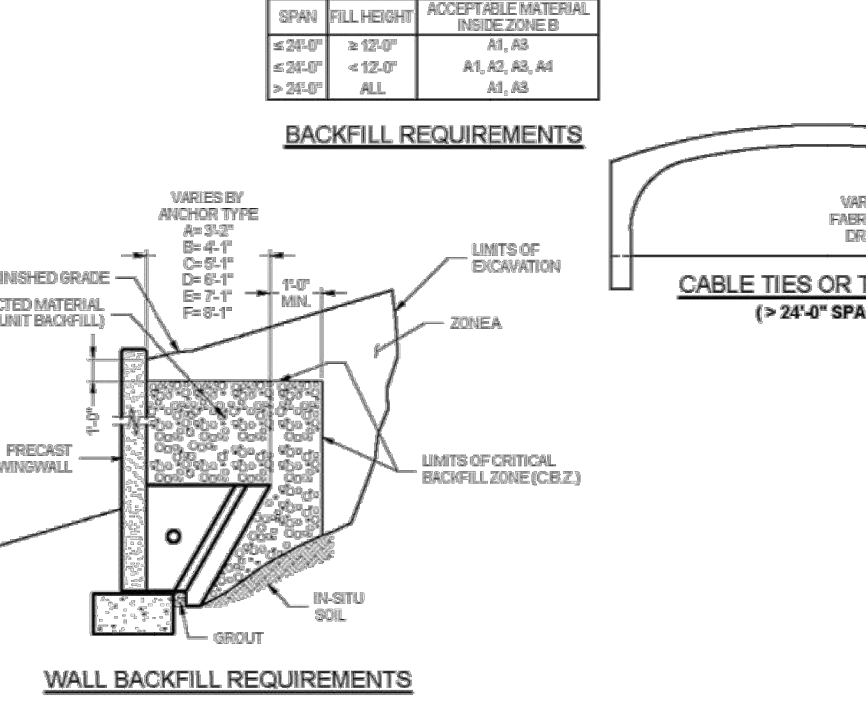
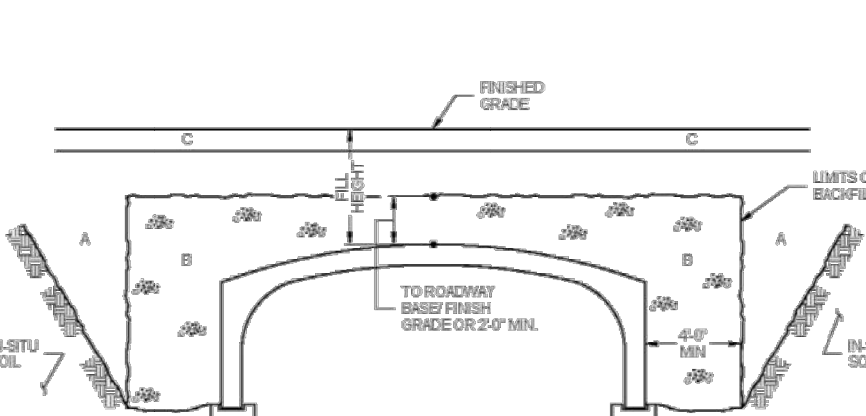
SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CONSPAN® BRIDGE SYSTEMS (CONT'D)

11. **MINIMUMS**  
THE BRIDGE DECK SHALL BE CLEARLY MARKED BY WATERPROOF PAINT. THE FOLLOWING SHALL BE SHOWN ON THE INSIDE OF THE WINGWALLS OF THE BRIDGE DECK:  
DATE OF MANUFACTURE  
NAME OF MANUFACTURER  
DATE OF INSTALLATION OF THE PRECAST COMPONENTS.
12. **INSTALLATION PREPARATION**  
THE PRECAST BRIDGE SYSTEM SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
13. **FOUNDATION**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
14. **CONSTRUCTION**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
15. **BACKFILL**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
16. **WINGWALLS**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
17. **FINISHES**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
18. **INSULATION**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
19. **PAINT**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
20. **QUALITY CONTROL**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.

- 11.1. **MINIMUMS**  
THE BRIDGE DECK SHALL BE CLEARLY MARKED BY WATERPROOF PAINT. THE FOLLOWING SHALL BE SHOWN ON THE INSIDE OF THE WINGWALLS OF THE BRIDGE DECK:  
DATE OF MANUFACTURE  
NAME OF MANUFACTURER  
DATE OF INSTALLATION OF THE PRECAST COMPONENTS.
- 12.1. **INSTALLATION PREPARATION**  
THE PRECAST BRIDGE SYSTEM SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 13.1. **FOUNDATION**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 14.1. **CONSTRUCTION**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 15.1. **BACKFILL**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 16.1. **WINGWALLS**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 17.1. **FINISHES**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 18.1. **INSULATION**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 19.1. **PAINT**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.
- 20.1. **QUALITY CONTROL**  
THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER. THE BRIDGE DECK SHALL BE INSTALLED ON A SUBGRADE THAT IS PROPERLY PREPARED AND COMPACTED TO THE SPECIFICATIONS OF THE PRECAST MANUFACTURER.

**ACCEPTABLE SOILS FOR USE IN ZONE B BACKFILL**

TYPICAL USES	ASHTO GROUP	ASHTO SUBGROUP	PERCENT FINES (US SIEVES)	CHARACTER OF FRACTION FINER (BY ASSAY)	SOIL DESCRIPTION	
SP, GP, SP, SM	A-1	A-1a	5% MAX	5% MAX	5% MAX	LARGELY GRAVEL, BUT CAN INCLUDE GRAVELS, SANDS, SILTS, AND CLAYS
GM, GM, ML, SP, GP	A-2	A-2.4	10% MAX	10% MAX	10% MAX	GRAVELS, SANDS, SILTS, AND CLAYS
SC, GC, GM	A-2.5	A-2.5	10% MAX	10% MAX	10% MAX	GRAVELS, SANDS, SILTS, AND CLAYS
SP, SM, SW	A-3	A-3	10% MAX	10% MAX	10% MAX	GRAVELS, SANDS, SILTS, AND CLAYS
ML, MC, CL	A-4	A-4	10% MAX	10% MAX	10% MAX	GRAVELS, SANDS, SILTS, AND CLAYS



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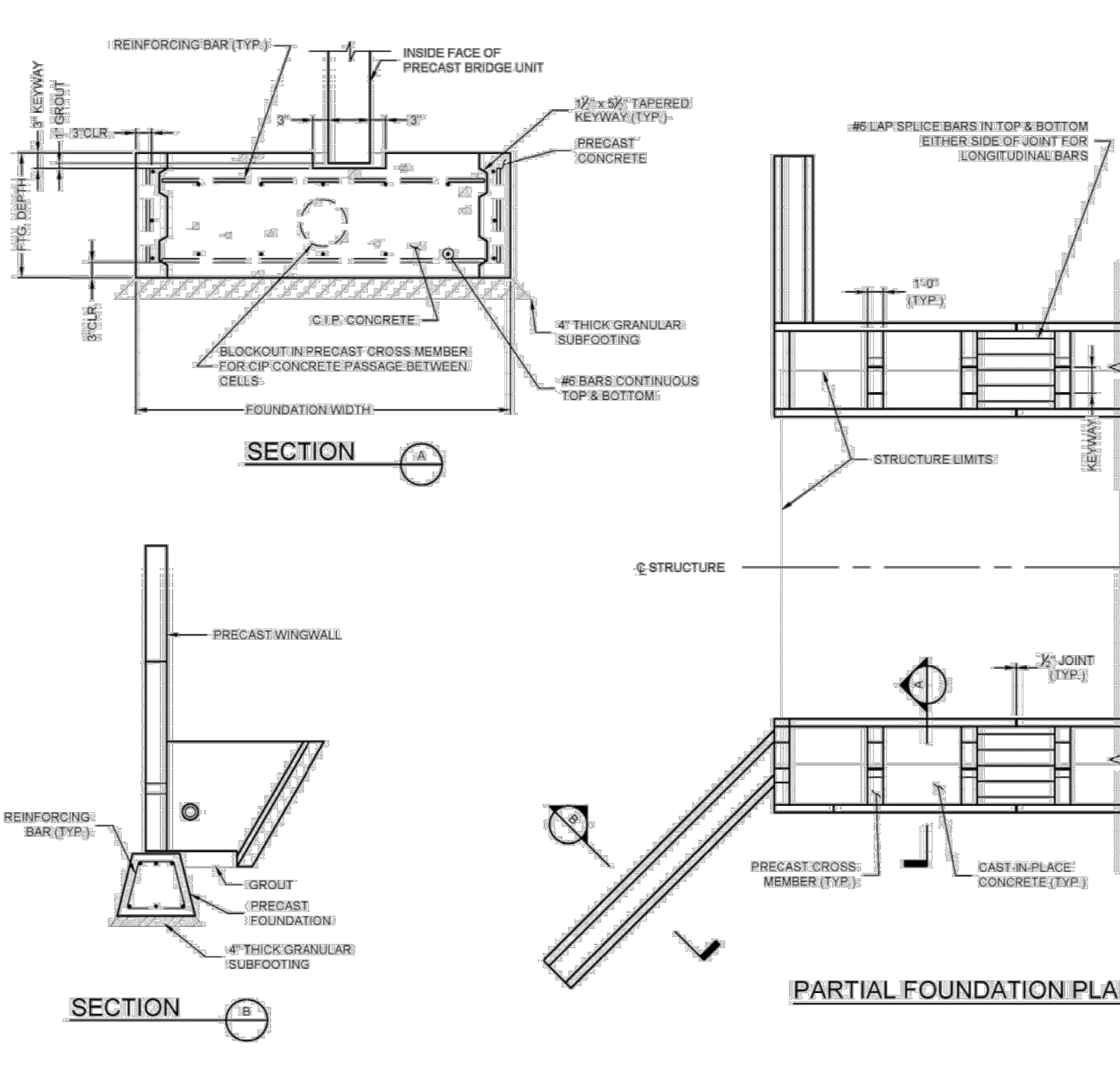
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Sheet No.:	7 OF 8				

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Sheet No.:	8 OF 8				

JOB NO.:	18121	DATE:	JUN 21
SCALE:	N/A	DRAWN:	KMF/CNP
DESIGN:	KMF/CNP	CHECKED:	SCI

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