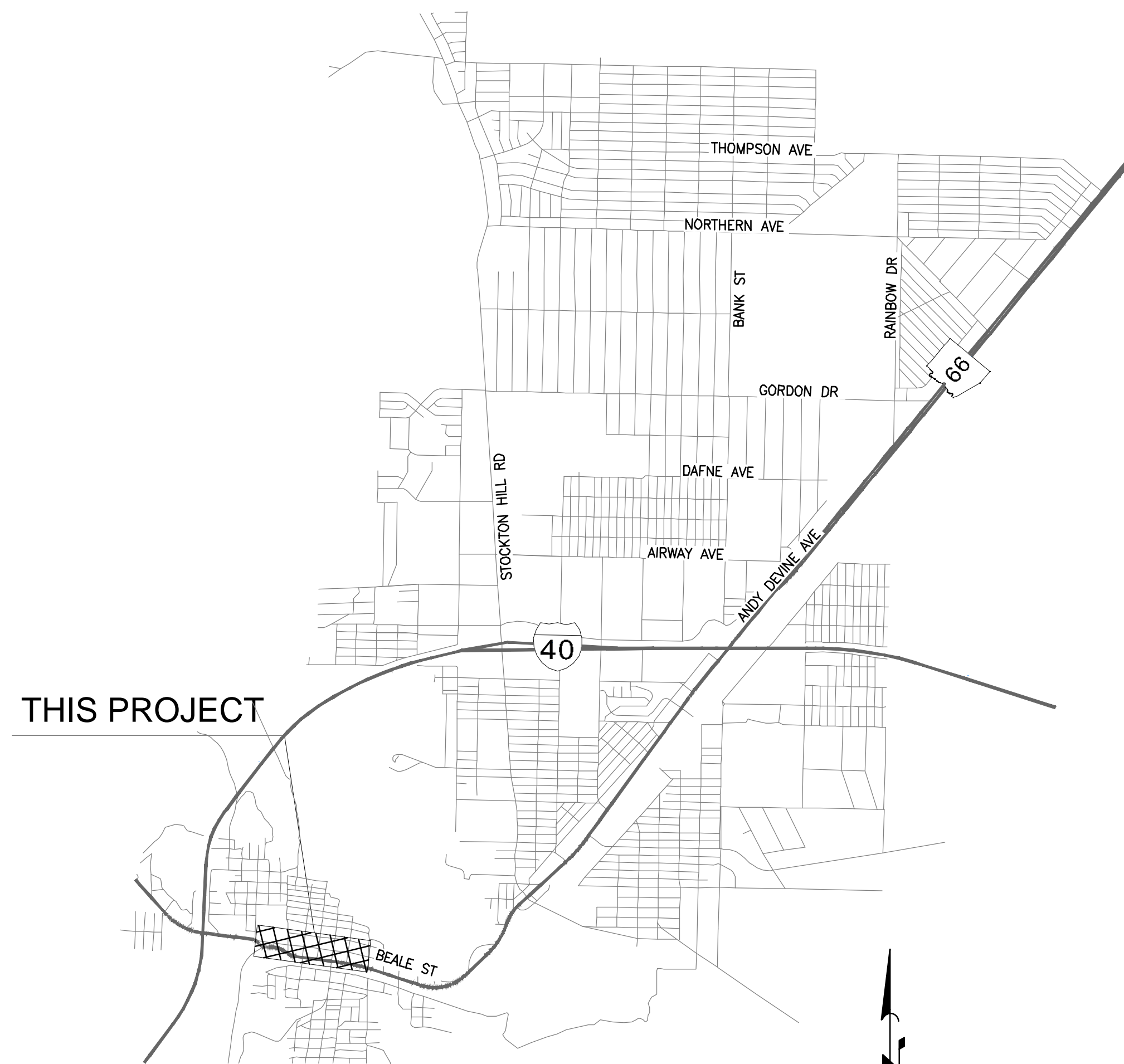


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CITY OF KINGMAN PUBLIC WORKS DEPARTMENT

KINGMAN DOWNTOWN INFRASTRUCTURE



VICINITY MAP

NTS



2023

INDEX OF SHEETS

SHEET NO.	DWG NAME	DRAWING TITLE
1	CS01	COVER SHEET
2	GN01	GENERAL NOTES & PROJECT CONTROL
3	GN02	KEY MAP
4	GN03	TYPICAL SECTION
5-15	DT01-DT12	DETAIL SHEETS
16-24	P02-P12	PLAN AND PROFILE SHEETS
25-27	P14-P16	STREET GRADE PLANS
28-29	PM01-PM-02	PAVEMENT MARKING & SIGNING PLANS
30-37	SL02-SL10	STREET LIGHT PLANS
38	L0.1	LANDSCAPE COVER
39-43	L1.0-L1.4	LANDSCAPE PLAN
44-48	L2.0-L2.4	IRRIGATION PLAN
49	L3.0	LANDSCAPE DETAILS
50	L4.0	HARDSCAPE DETAILS
51-52	L5.0-L5.1	IRRIGATION DETAILS

AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

APPROVED FOR:
THE CITY OF KINGMAN

CITY ENGINEER (OF DESIGNEE) _____ DATE _____

MAYOR
KEN WATKINS

VICE MAYOR
CHERISH SAMMELI

CITY MANAGER
RON FOGGIN

CITY COUNCIL

CAMERON PATT
SHAWN SAVAGE
JAMIE SCOTT STEHLY
SMILEY WARD
KEITH WALKER

PUBLIC WORKS DIRECTOR

ROB OWEN

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



COVER SHEET

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



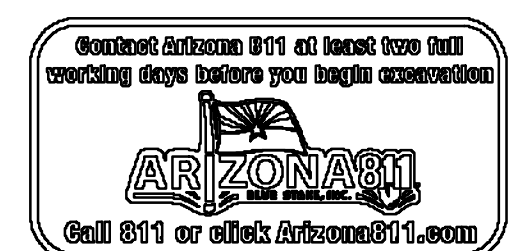
EXPIRES: 9/30/2024

PROJECT NO.
3720205006

DRAWING NAME

CS01

SHEET NO. 1 of 52



File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-CS.dwg

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SIGNING GENERAL NOTES:

- ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION, THE ARIZONA SUPPLEMENT TO THE MUTCD 2009 EDITION, SIGNING AND MARKING STANDARD DRAWINGS, AND THE ADOT TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS.
- THE SIGN LOCATIONS AND THE POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE SIGN LOCATIONS AND ACTUAL POST LENGTHS WITH THE ENGINEER PRIOR TO INSTALLING SIGNS.
- THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.
- OFFSETS FOR ALL SIGNS SHALL BE MEASURED FROM THE EDGE OF THE ROADWAY TO THE NEAREST EDGE OF THE SIGN.
- ALL NEW SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM SIGN PANELS WITH DIRECT APPLIED OR SILK SCREENED CHARACTERS AS LISTED IN SECTION 608.
- THE RETROREFLECTIVE SHEETING ON ALL NEW SIGNS SHALL MEET CRITERIA ESTABLISHED IN SECTION 1007 OF THE SPECIFICATIONS.
- ALL NEW SIGNS SHALL BE INSTALLED ON NEW SQUARE TUBE POSTS WITH FOUNDATIONS IN ACCORDANCE WITH ADOT SIGNING AND MARKING STANDARD DRAWING S-3.
- THE ENGINEER MAY MODIFY THE SIGNING PLANS.
- THE CONTRACTOR SHALL NOT ORDER ANY SIGN FABRICATION UNTIL SHOP DRAWINGS ARE APPROVED.
- THE CONTRACTOR SHALL REMOVE EXISTING SIGNING WHERE INDICATED IN THE SIGNING PLANS. COMPLETE REMOVAL OF THE FOUNDATIONS AND BASES IS REQUIRED WHEN SIGNS ARE REMOVED. CUTTING THE SUPPORT FLUSH WITH THE GROUND SURFACE DOES NOT CONSTITUTE REMOVAL.
- THE CONTRACTOR SHALL INVENTORY ALL SIGNS TO BE REMOVED OR COVERED AND NOTE DAMAGED SIGNS TO THE ENGINEER AT THE TIME OF COVERING OR REMOVAL. ALL SIGNS DAMAGED BY COVERING OR REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.

PAVEMENT MARKING GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY, AND THE AIR AND PAVEMENT TEMPERATURES SHALL BE A MINIMUM OF 55 DEGREE F AND RISING FOR THE PLACEMENT OF THERMOPLASTIC STRIPING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET ONE FOOT CLEAR OF ANY CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY AN APPROVED METHOD. PAINTING OVER STRIPING, REMOVAL OF PAVEMENT, AND OVERLAYING PAVEMENT DO NOT CONSTITUTE STRIPE OBLITERATION.
- FINAL STOP BAR, SYMBOLS AND LEGENDS SHALL BE ALKYD EXTRUDED THERMOPLASTIC, 0.090 INCH THICK, PAVEMENT MARKING MATERIAL PLACED 30 DAYS AFTER THE INITIAL WATERBORNE TYPE I PAINTED STRIPING.
- THE DIMENSIONS SHOWN TO PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING.
- ALL FINAL STOP BARS, CROSSWALK LINES, AND PAVEMENT MARKING ARROWS SHALL BE 90 MIL (0.090 INCH) THICK EXTRUDED THERMOPLASTIC.

APPROXIMATE PAVEMENT MARKING AND SIGNING QUANTITIES

ITEM DESCRIPTION	QUANTITY	UNIT
OBLITERATE PAVEMENT MARKING (STRIPE)	1	LS
WATERBORNE-TYPE I PAVEMENT MARKING (PAINTED)(WHITE)*	8614	LF
PAVEMENT MARKING (WHITE EXTRUDED THERMOPLASTIC)(0.090)*	6513	LF
INSTALL ADA PARKING SYMBOL	12	EA
MOUNT SIGN ON LIGHT POLE	12	EA
REMOVE EXISTING SIGN	58	EA
SIGN POST (PERFORATED)(2S)	440	LF
WARNING, MARKER OR REGULATORY SIGN PANEL	345	SF
INSTALL FLASHING LED EQUIPMENT FOR STOP SIGN PER DETAIL T-1	4	EA

*PAVEMENT MARKING QUANTITIES ARE BASED ON 4" EQUIVALENT QUANTITIES

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARDS SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION (928) 753-8195.
- PRIOR TO ANY CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR/DEVELOPER SHALL NOTIFY THE LANDSCAPE ARCHITECT AT (480) 250-0116. ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL CONDITIONS USING THE FOLLOWING REQUIREMENTS:
 - ALL TREES IMPACTED BY CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE OF TREE ALLOCATION DETERMINED BY THE CITY.
 - ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
 - THE AREA OF CONSTRUCTION SHALL BE TREATED WITH PRE - EMERGENT HERBICIDE (IE; SURFLAN).
 - GRANITE A SIZE AND COLOR TO MATCH EXISTENCE SHALL BE SPREAD A MINIMUM OF TWO (2) INCHES THICK.
 - THE STREET DIVISION SHALL BE CONTACTED TO INSPECT ALL WORK BEFORE A CONDITIONAL ACCEPTANCE IS ISSUED.
 - THE CONTRACTOR/DEVELOPER SHALL MAINTAIN THE AREA FOR NINETY (90) DAYS AFTER CONDITIONAL ACCEPTANCE. AFTER THE NINETY (90) DAYS THE CITY SHALL BE CONTACTED FOR FINAL ACCEPTANCE AND ASSUMPTION OF MAINTENANCE.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK IN MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS AND PLANS IS SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES TO VERIFY THEIR LOCATION. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR ANY CONFLICTS PRIOR TO THE START OF CONSTRUCTION. BLUESTAKE TELEPHONE (602) 263-1100.
- THE CITY OF KINGMAN IS NOT RESPONSIBLE FOR LIABILITY INCURRED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION. ANY UTILITY LOCATIONS NEEDED TO FACILITATE CONSTRUCTION WILL BE PERFORMED BY THE UTILITY OWNER.
- NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL 4 MILL PHOTO MYLAR REPRODUCIBLE "AS-BUILT" PLANS CERTIFIED AND SEALED BY A REGISTERED CIVIL ENGINEER HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
- BACKFILLING OF UTILITY TRENCHES OR POTHOLES SHALL NOT BE STARTED UNTIL LINES ARE APPROVED BY THE CITY ENGINEER. ALL BACKFILL SHALL BE HALF-SACK, ABC OR NATIVE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MAG SECTION 601, TYPE I. BACKFILL PLACEMENT AND SURFACE REPLACEMENT SHALL BE IN ACCORDANCE WITH MAG STD DTL 200 TTOP.
- AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
- SETBACKS FOR UTILITY POLES, STRUCTURES, AND OTHER SIMILAR FACILITIES GREATER THAN 18' IN HEIGHT SHALL BE 5.5' BACK OF CURB. IN CASES WHERE THE FACILITIES ARE ADJACENT TO A DECELERATION LANE OR BUS BAY, WITH SETBACK CAN BE REDUCED TO 2.5' BACK OF CURB.
- STREETLIGHTS SHALL USE LED LUMINARIES CONTROLLED BY INDIVIDUAL PHOTOCELLS PER CITY OF KINGMAN.
- ALL LUMINARIES SHALL BE CITY OF KINGMAN APPROVED LUMINARIES.
- ALL JUNCTION BOXES SHALL BE INSTALLED AT FINISHED GRADE AND SHALL BE ADJACENT TO EACH POLE.
- STREET LIGHT CONDUCTORS SHALL BE NO. 12 AWG SOLID SOFT-DRAWN COPPER AND BARE THE UL LABEL EXCEPT FOR GREEN GROUNDING. GREEN GROUND SHALL BE NO. 8 AWG. INSTALLATION SHALL BE TYPE THWN.
- CONCRETE BASES ARE REQUIRED FOR ALL STREET LIGHTS. CONCRETE FOR POLE FOUNDATIONS SHALL BE CLASS A (3,000#) AND CONFORM TO PUBLIC WORKS CONSTRUCTION (MAG SPECIFICATIONS).
- CONDUIT SHALL BE INSTALLED BETWEEN POLES AND JUNCTION BOXES IN ALL AREAS AS SHOWN. CONDUIT REQUIRED FOR STREET, ALLEY OR DRIVEWAY CROSSINGS SHOULD BE 4". SCHEDULE 40 POLYVINYL CHLORIDE FOR ALL INSTALLATIONS
- CONDUIT RUNS BETWEEN STREET LIGHT POLE AND JUNCTION BOX SHALL BE 1". THE CONDUIT SHALL BE EITHER 1" SCHEDULE POLYVINYL CHLORIDE OR LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT THAT CONFORMS TO THE INSTALLATION AND USE OF SPECIFICATIONS SET FORTH IN THE NATIONAL ELECTRICAL CODE, SECTION 351.
- THE CONTRACTOR SHALL AFFIX STREETLIGHT NUMBER ON EACH POLE AS SHOWN ON THE JOB ORDER PLAN PRIOR TO FINAL INSPECTION.
- STREETLIGHT CONDUCTOR TRENCHES WILL NOT BE BACKFILLED UNTIL INSPECTED AND APPROVED BY CITY OF KINGMAN INSPECTOR.
- CITY OF KINGMAN TO MAINTAIN SERVICE FOR EXISTING STREETLIGHT THROUGHOUT THE VARIOUS CONSTRUCTION PHASES.
- ANY VARIANCE TO AN APPROVED LUMINAIRE SHALL REQUIRE A NEW DESIGN ACCOMPANIED WITH POINT-TO-POINT LIGHTING CALCULATIONS AT TEN FOOT INTERVALS INDICATING MAINTAINED FOOTCANDLE LEVELS BETWEEN LUMINARIES AND ACROSS THE WIDTH OF THE ROAD WAY FOR APPROVAL BY THE CITY ENGINEER.
- THE JUNCTION BOX NEAREST TO A POLE SHALL BE LOCATED INSIDE THE PUBLIC RIGHT-OF-WAY OR IN A PUBLIC UTILITY EASEMENT UNLESS OTHERWISE DIRECTED.
- CONTRACTOR TO REMOVE OVERHEAD CANOPY STRUCTURE LOCATED ON BUSINESS BETWEEN 2ND & 3RD ON WB BEALE STREET. BUSINESSES INCLUDE ROOT OUTLET TEEN CENTER (#213), SEA DOG MERCHANTS (#211), AND SHADY GROVE RECORDS (#209).
- BUSINESSES TO REMOVE ALL FENCING, RAISED DRINK PLATFORMS, SEATING AREAS, ETC. BEFORE CONSTRUCTION.
- PARKLETS TO BE REMOVED BY BUSINESS OWNERS WITH CITY OF KINGMAN SUPPORT PRIOR TO CONSTRUCTION.
- THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF KINGMAN. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF KINGMAN'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF KINGMAN FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) /CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

PROJECT SURVEY CONTROL

SURVEY IS BASED ON CITY OF KINGMAN CONTROL DATA RECEIVED ON APRIL 26, 2020.

HORIZONTAL DATUM IS CITY OF KINGMAN ARIZONA STATE PLANE WEST (NAD 27), PER BOOK 10 OF RECORDS OF SURVEYS, PAGE 38, RECORDS OF MOHAVE COUNTY ARIZONA.

PRIMARY BENCHMARK IS CITY OF KINGMAN BENCHMARK DESIGNATED AS "91-54", THE TOP OF THE SOUTHEAST BOLT ON A TRAFFIC LIGHT AT THE NORTHWEST CURB RETURN OF BEALE STREET AND FIRST STREET, HAVING AN ELEVATION OF 3334.69' CITY OF KINGMAN NAVD 88 DATUM.

SECONDARY BENCHMARK IS CITY OF KINGMAN BENCHMARK DESIGNATED AS "91-94", A PK NAIL IN THE TOP OF THE CURB RETURN AT THE SOUTHEAST CORNER OF THIRD STREET AND BEALE STREET HAVING AN ELEVATION OF 3344.16', CITY OF KINGMAN NAVD 88 DATUM.

CITY OF KINGMAN TO PROVIDE ALL SURVEY TO BUILD THE PROJECT.

REVISIONS:

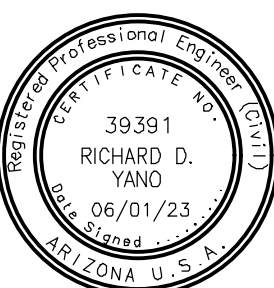
WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



GENERAL NOTES & PROJECT CONTROL

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



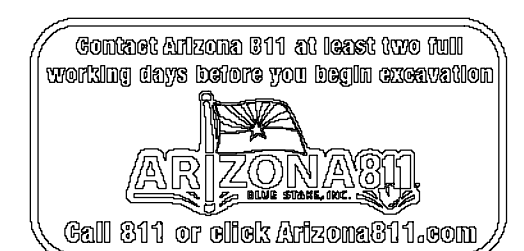
EXPIRES: 9/30/2024

PROJECT NO.
3720205006

DRAWING NAME

GN01

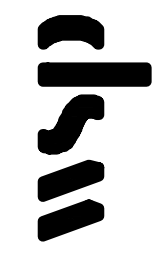
SHEET NO. 2 of 52



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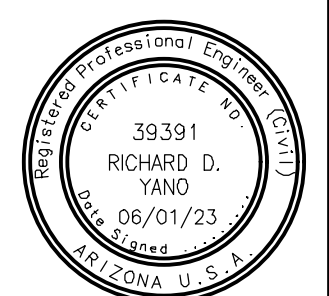
REVISIONS:

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4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



KEY MAP
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

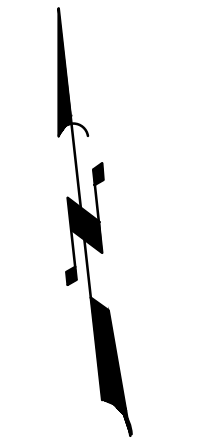
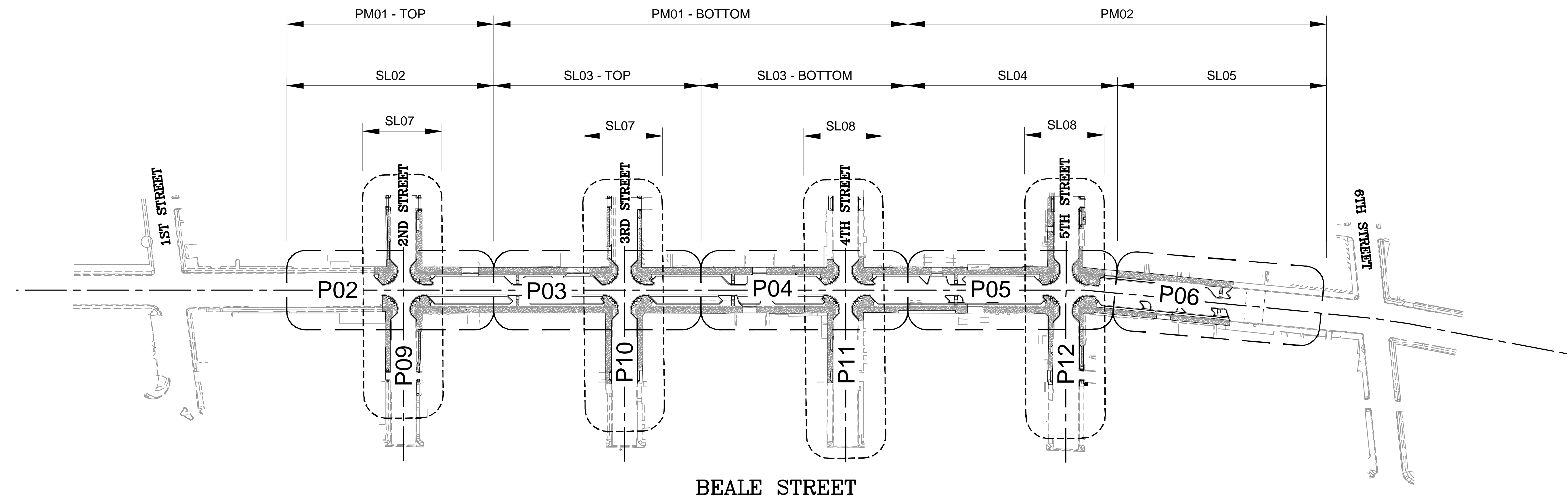


EXPIRES: 9/30/2024

PROJECT NO.
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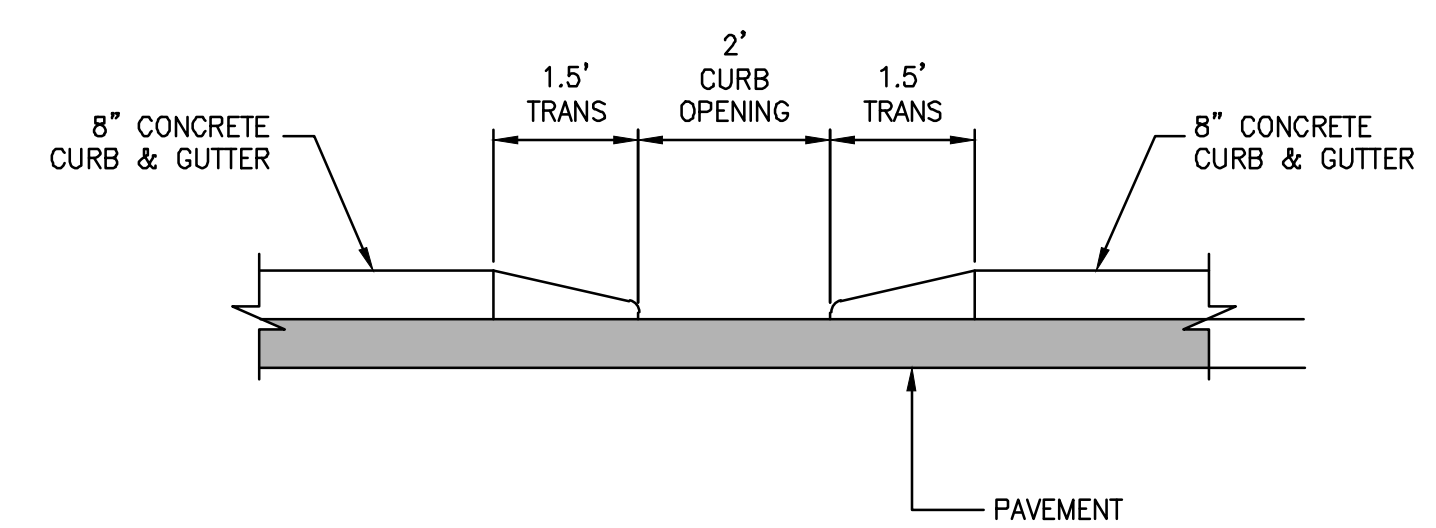
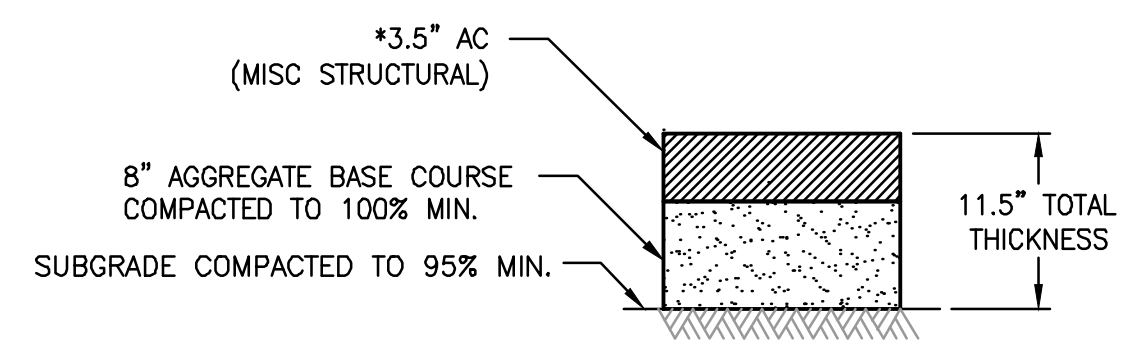
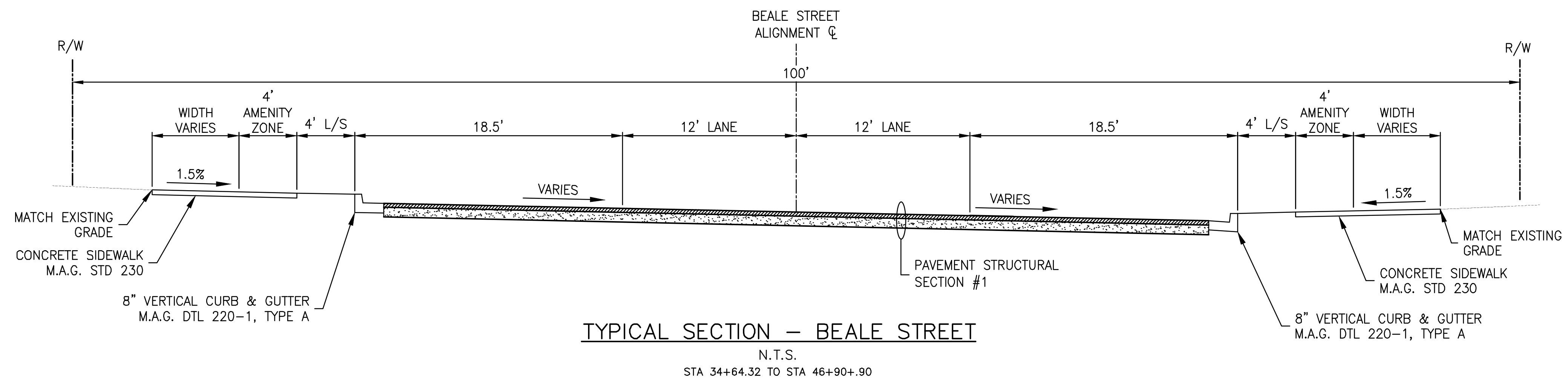
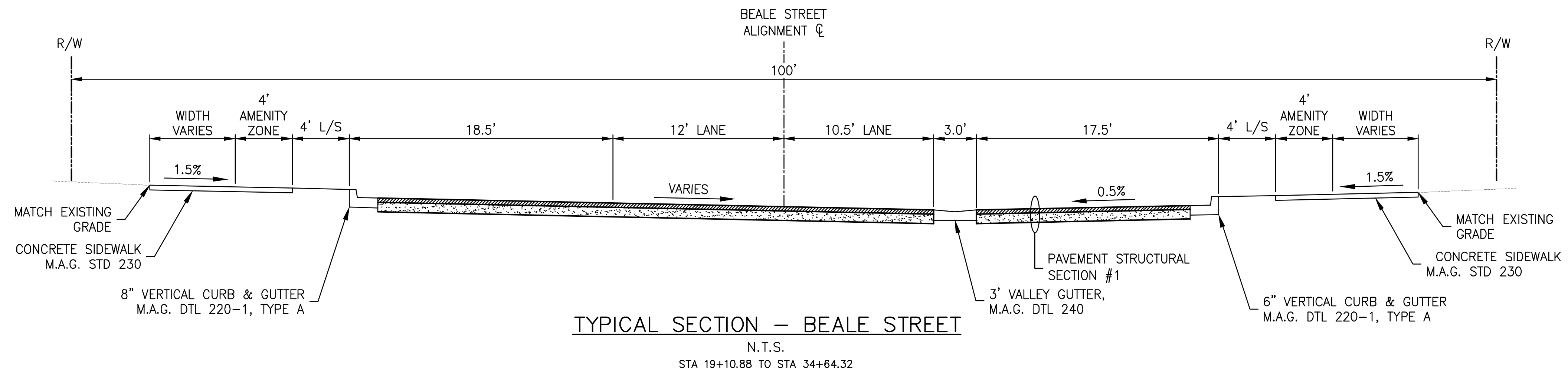
DRAWING NAME
GN02

SHEET NO. 3 of 52



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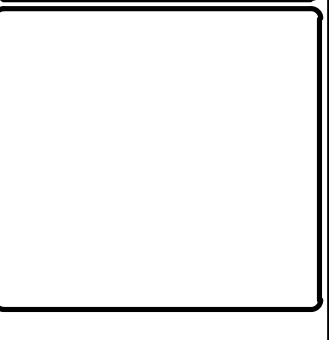


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4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

TYPICAL SECTION
PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



EXPIRES: 9/30/2024

PROJECT NO.
3720205006

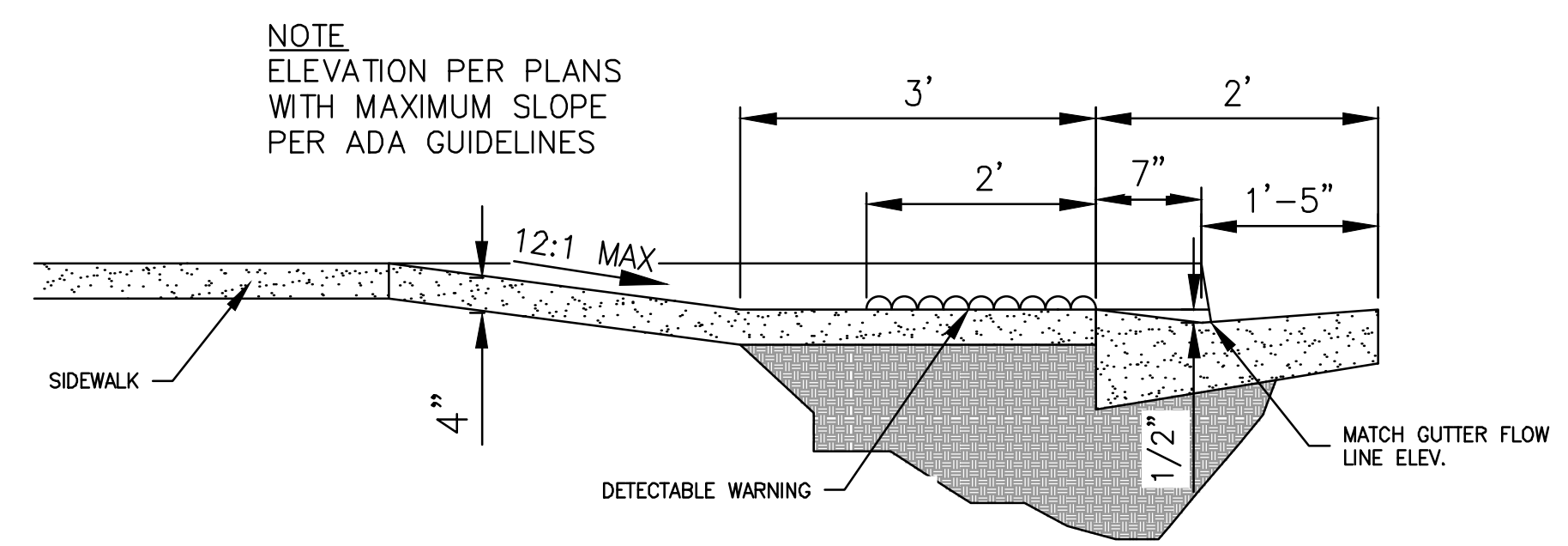
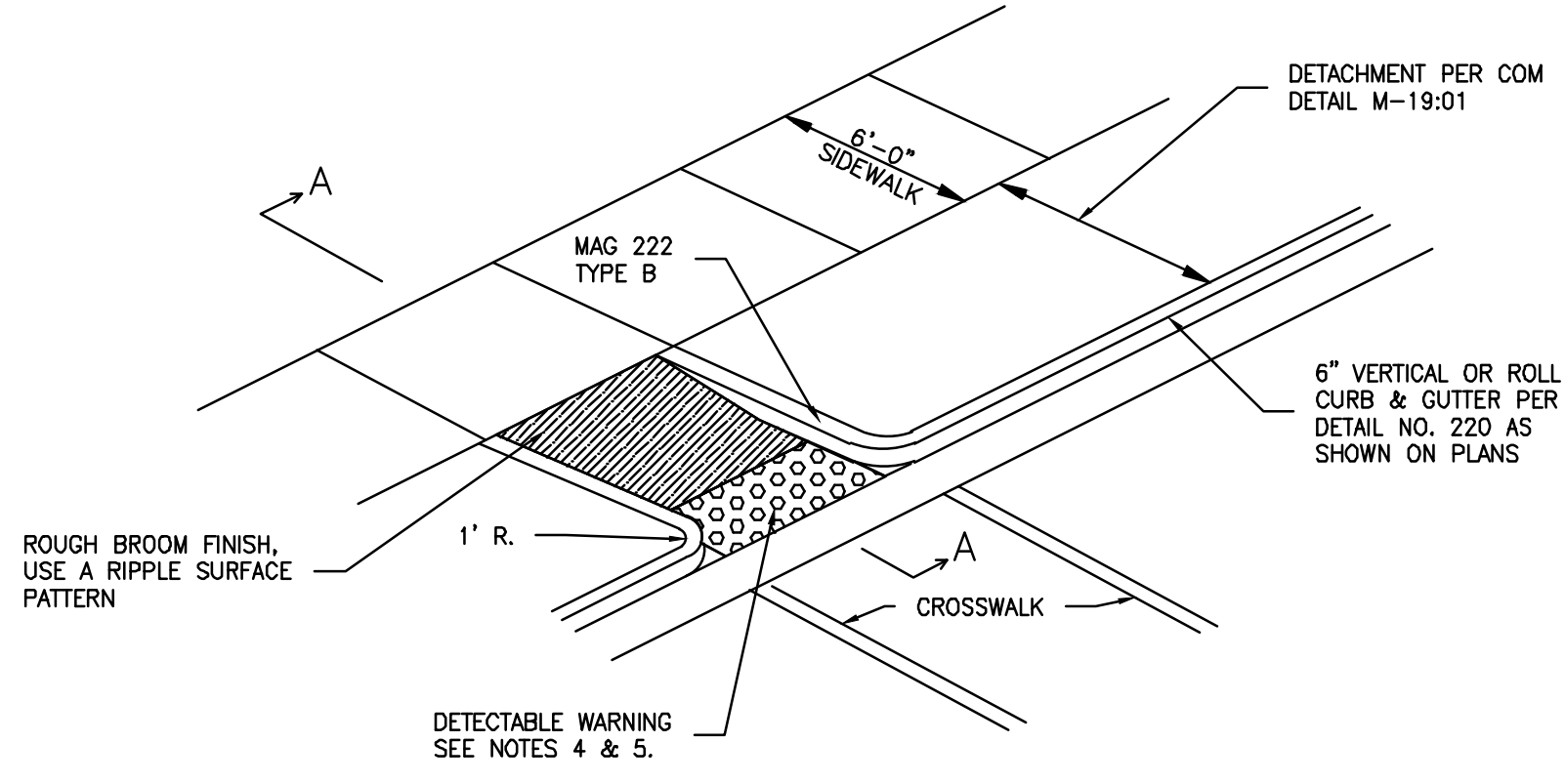
DRAWING NAME
GN03
SHEET NO. 4 of 52

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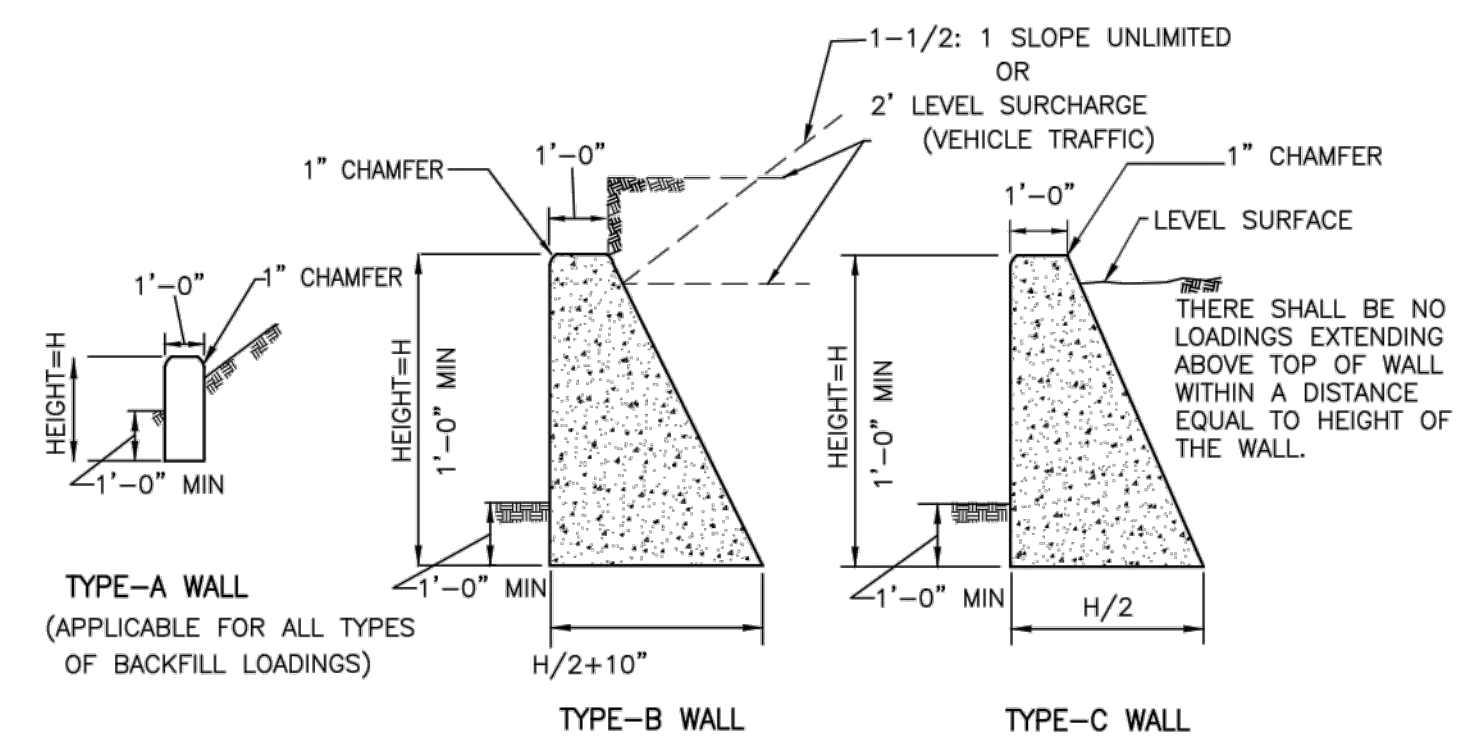
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NOTES

1. TYPE 'D' RAMP TO BE USED AT MID-BLOCK AND "T" INTERSECTIONS.
2. CLASS 'B' CONCRETE PER MAG SECTION 725.
3. MAXIMUM DISTANCE BETWEEN PEDESTRIAN PUSH BUTTON FACE & ACCESSIBLE APPROACH SHALL BE 10 INCHES.



MID-BLOCK CROSSING AND ADA STALL RAMP DETAIL
N.T.S.



CONCRETE
CONCRETE SHALL BE CLASS "B"

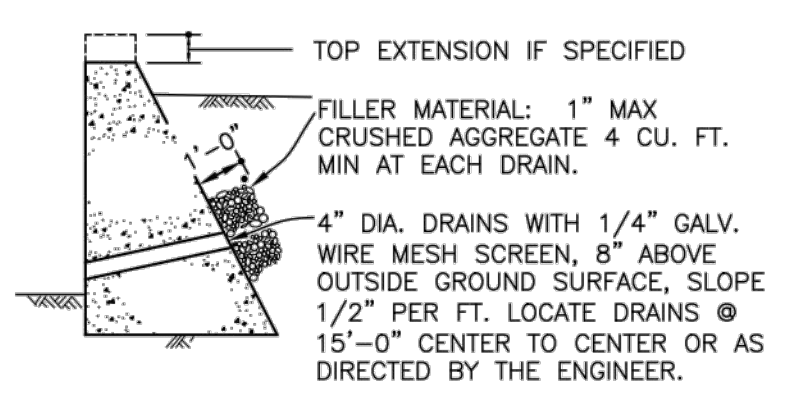
DESIGN CONDITIONS
WALLS ARE TO BE USED FOR THE LOADING CONDITIONS SHOWN FOR EACH TYPE WALL. DESIGN H MAY BE EXCEEDED BY SIX INCHES BEFORE GOING TO NEXT SIZE.

DESIGN DATA
FC = 1200 PSI
F'C = 3000 PSI
EARTH = 120 PCF
AND EQUIVALENT FLUID PRESSURE=36 PSF PER FOOT OF HEIGHT

WALLS SHOWN FOR 1-1/2:1 UNLIMITED SLOPING SURCHARGE ARE DESIGNED IN ACCORDANCE WITH RANKINE'S FORMULA FOR UNLIMITED SLOPING SURCHARGE WITH $\phi = 42'$.
NOTE: MAXIMUM TOE PRESSURE UNDER WALL FOOTING = 1-1/2 TONS/SQ. FT. SPECIAL DESIGN REQUIRED WHERE FOOTING MATERIAL IS INCAPABLE OF SUPPORTING THIS PRESSURE.

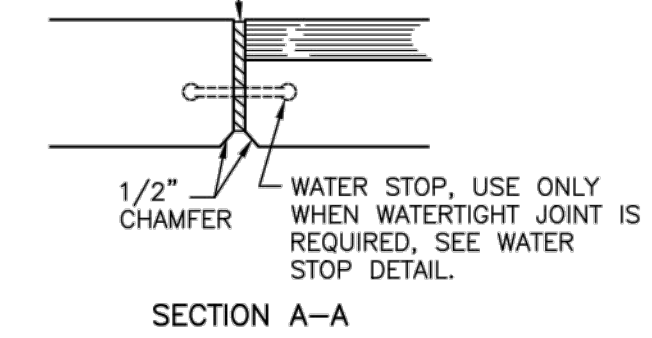
EXCAVATION AND BACKFILL
COMPACTION OF BACKFILL MATERIAL BY JETTING OR PONDING WITH WATER WILL NOT BE PERMITTED.
EACH LAYER OF BACKFILL SHALL BE MOISTENED AS DIRECTED BY THE ENGINEER AND THOROUGHLY TAMPED, ROLLED OR OTHERWISE COMPACTED UNTIL THE RELATIVE COMPACTION IS NOT LESS THAN 90 PERCENT.

NO BACKFILL MATERIAL SHALL BE DEPOSITED AGAINST CONCRETE RETAINING WALLS UNTIL THE CONCRETE HAS DEVELOPED A STRENGTH OF 2,500 PSI IN COMPRESSION AS DETERMINED BY TEST CYLINDERS, OR UNTIL 28 DAYS AFTER WALL HAS BEEN PLACED.

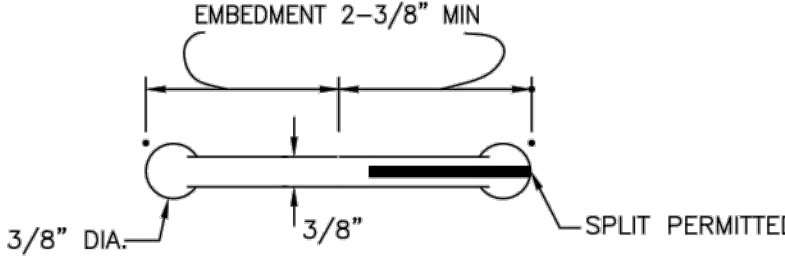


TYPICAL DRAINAGE
WHEN H IS GREATER THAN 4'-0"

1/2" EXPANSION JOINT, FILL WITH PREMOLDED EXPANSION JOINT FILLER. LOCATE JOINTS AT APPROX. 30'-0" CENTERS OR AS DIRECTED BY THE ENGINEER.



SECTION A-A



RUBBER WATERSTOP
USE ONLY WHEN WATERTIGHT JOINT IS REQUIRED.

WALL TYPE	HEIGHT	BASE	CONCRETE CF/FT
A	1'-6"	1'-0"	1.50 cu ft.
	2'-0"	1'-0"	2.00 cu ft.
	3'-0"	2'-4"	4.99 cu ft.
B	4'-0"	2'-10"	7.66 cu ft.
	5'-0"	3'-4"	10.82 cu ft.
	6'-0"	3'-10"	14.49 cu ft.
	3'-0"	1'-6"	3.75 cu ft.
C	4'-0"	2'-0"	6.00 cu ft.
	5'-0"	2'-6"	8.75 cu ft.
	6'-0"	3'-0"	12.00 cu ft.

GRAVITY RETAINING WALL DETAIL
N.T.S.

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

DETAILS
PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

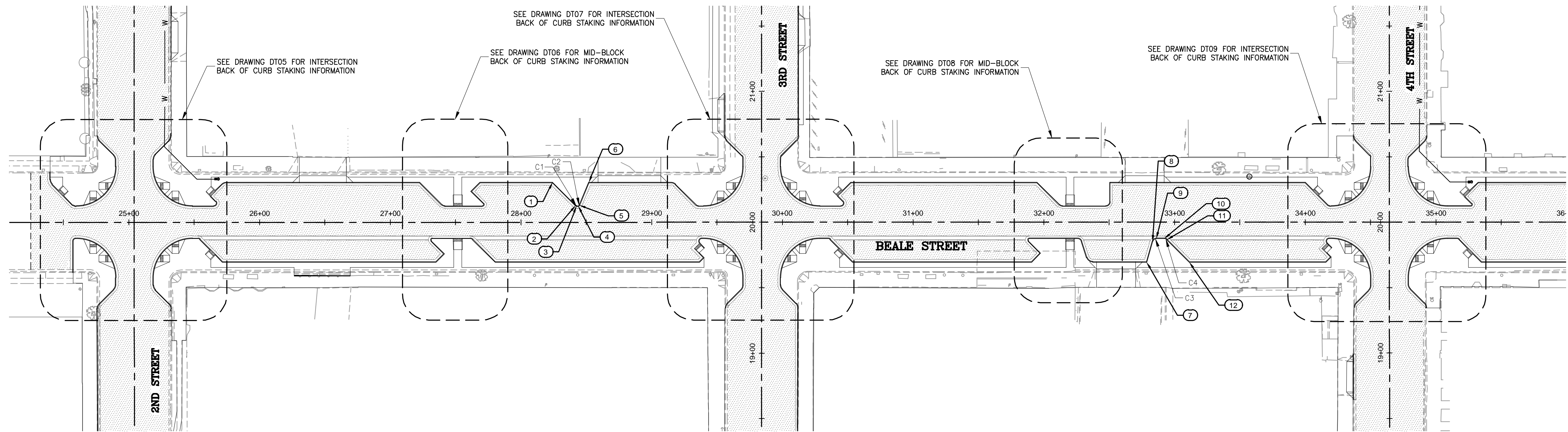


EXPIRES: 9/30/2024

PROJECT NO.
372025006

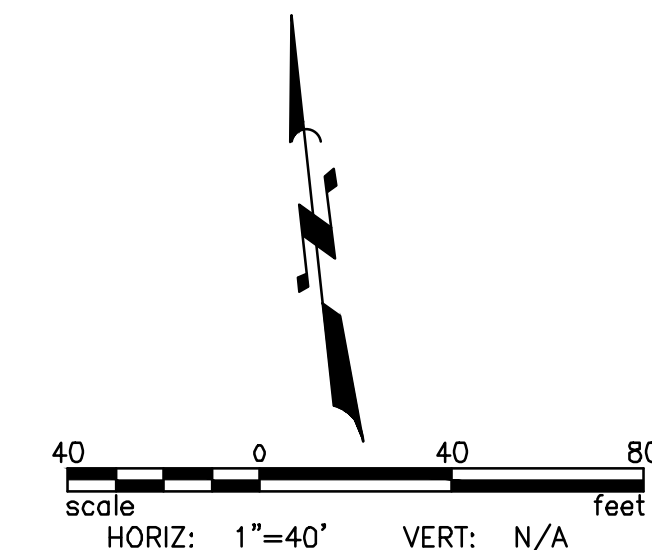
DRAWING NAME
DT01
SHEET NO. 5 of 52

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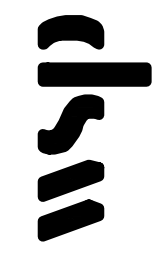
BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/28+24.18	30.48, LT	3344.20
2	BEALE ST/28+41.89	12.78, LT	3342.94
3	BEALE ST/28+42.58	12.50, LT	3342.93
4	BEALE ST/28+43.75	12.50, LT	3342.93
5	BEALE ST/28+44.67	13.10, LT	3342.95
6	BEALE ST/28+51.83	30.48, LT	3344.06
7	BEALE ST/32+78.69	30.53, RT	3346.49
8	BEALE ST/32+83.16	14.71, RT	3345.98
9	BEALE ST/32+86.06	12.50, RT	3345.97
10	BEALE ST/32+91.98	12.50, RT	3346.06
11	BEALE ST/32+94.13	13.41, RT	3346.14
12	BEALE ST/33+11.25	30.53, RT	3347.05

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C1	0.76	1.00	43°36'52"
C2	1.16	1.01	66°09'45"
C3	3.92	3.00	74°49'07"
C4	2.40	3.00	45°49'53"



REVISIONS:

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
 FAX: 602-733-6100



STAKING PLAN
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

DESIGNED BY: HMR
 DRAWN BY: AA
 CHECKED BY: DY
 DATE: JUNE 2023

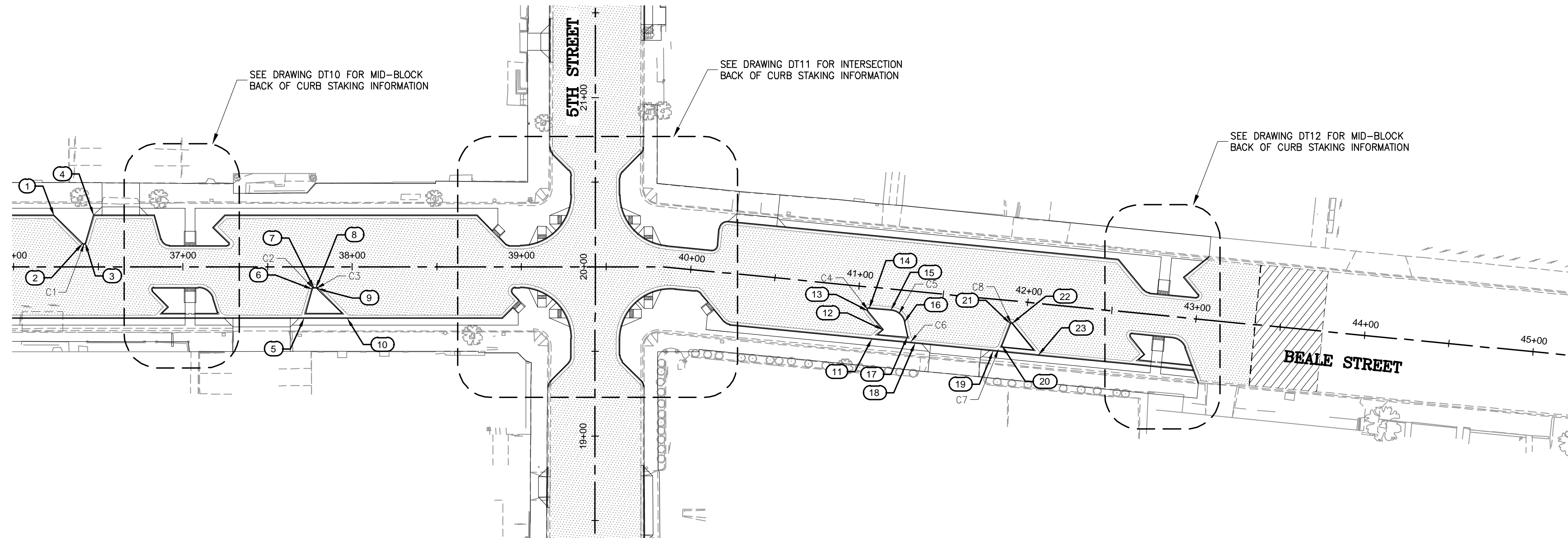


PROJECT NO.
 3720205006

DRAWING NAME
DT02
 SHEET NO. 6 of 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-030.dwg

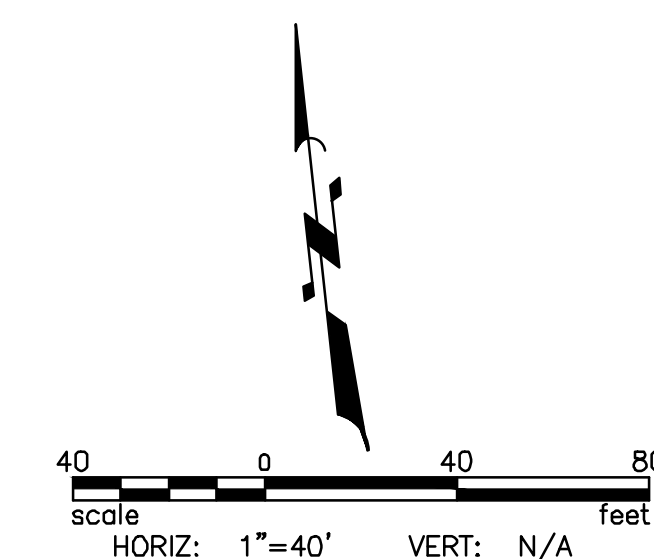
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BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/36+23.80	30.46, LT	3353.49
2	BEALE ST/36+40.58	13.68, LT	3352.43
3	BEALE ST/36+42.25	14.10, LT	3352.46
4	BEALE ST/36+47.20	30.46, LT	3353.78
5	BEALE ST/37+71.47	30.53, RT	3352.83
6	BEALE ST/37+76.36	13.26, RT	3352.96
7	BEALE ST/37+77.33	12.50, RT	3353.00
8	BEALE ST/37+78.54	12.50, RT	3353.02
9	BEALE ST/37+79.25	12.83, RT	3353.01
10	BEALE ST/37+96.95	30.53, RT	3352.89
11	BEALE ST/41+10.47	30.54, RT	3352.57
12	BEALE ST/41+16.65	24.36, RT	3352.13
13	BEALE ST/41+06.54	14.25, RT	3352.59
14	BEALE ST/41+07.21	12.50, RT	3352.66

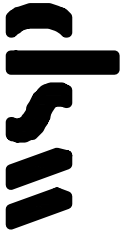
BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
15	BEALE ST/41+20.08	12.50, RT	3352.59
16	BEALE ST/41+28.64	18.75, RT	3352.31
17	BEALE ST/41+31.37	27.09, RT	3351.97
18	BEALE ST/41+36.11	30.50, RT	3352.50
19	BEALE ST/41+82.56	30.50, RT	3352.44
20	BEALE ST/41+87.36	26.88, RT	3351.93
21	BEALE ST/41+91.09	13.45, RT	3352.46
22	BEALE ST/41+91.93	13.23, RT	3352.46
23	BEALE ST/42+09.23	30.54, RT	3352.45

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C1	2.06	1.00	118°10'23"
C2	1.33	1.00	76°09'03"
C3	0.80	1.01	45°24'36"
C4	2.41	1.00	138°05'59"
C5	11.33	9.00	72°06'18"
C6	6.23	5.00	71°26'02"
C7	6.46	5.00	74°00'46"
C8	1.04	0.50	119°28'35"



REVISIONS:

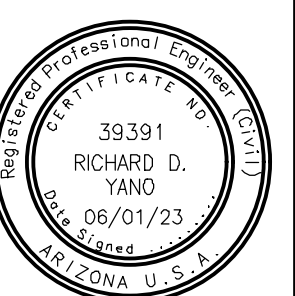
WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



STAKING PLAN

KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



EXPIRES: 9/30/2024

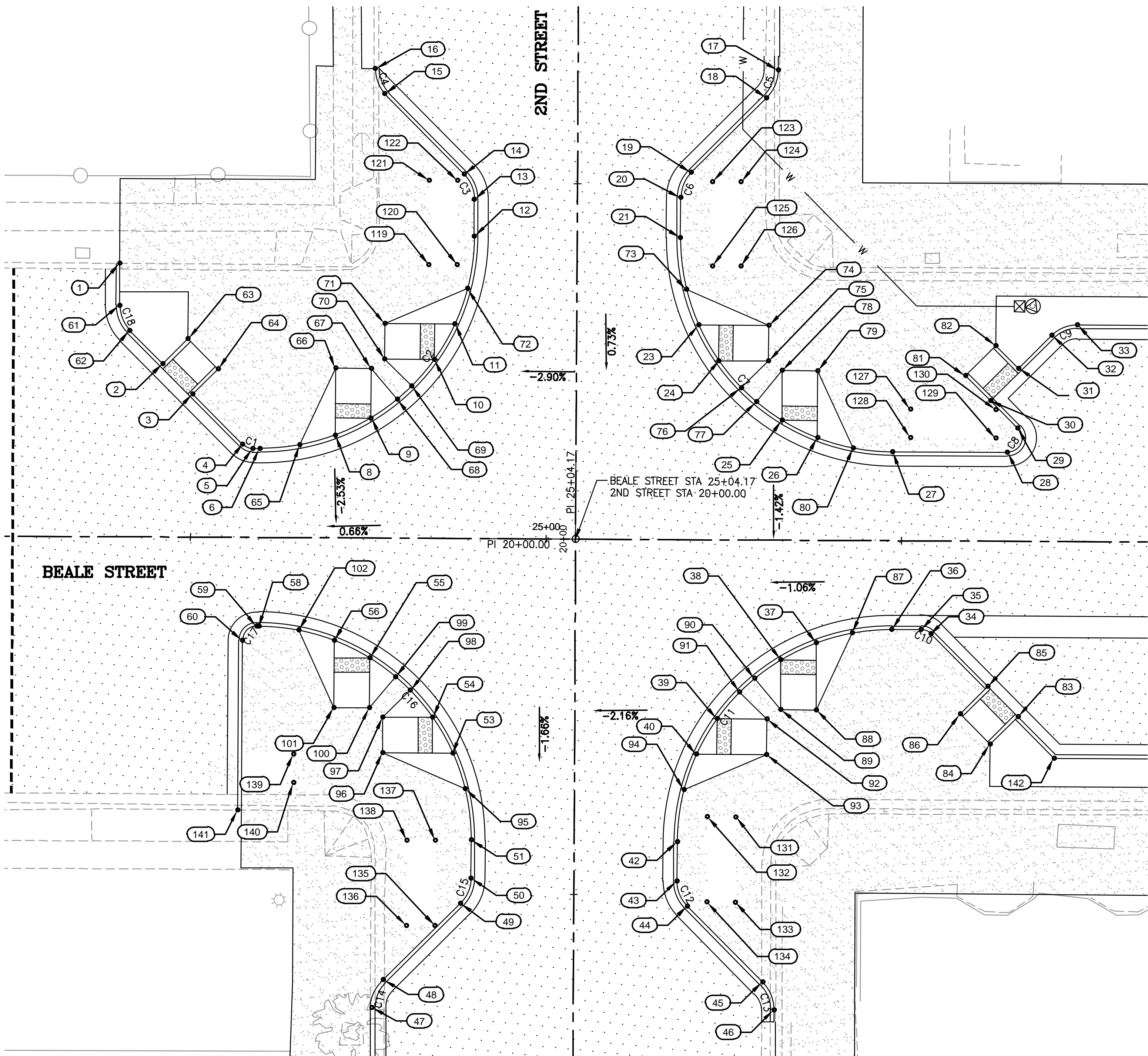
PROJECT NO.
3720205006

DRAWING NAME

DT03

SHEET NO. 7 of 52

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BEALE STREET AND 2ND STREET INTERSECTION

CURVE #	LENGTH	RADIUS	DELTA
C1	1.57	2.00	44°59'55"
C2	47.13	30.00	90°00'08"
C3	3.92	5.00	44°57'08"
C4	3.87	5.50	40°18'26"
C5	4.34	5.50	45°12'39"
C6	3.93	5.00	44°59'34"
C7	47.12	30.00	90°00'05"
C8	4.71	2.00	134°59'51"
C9	3.93	5.00	44°59'51"

CURVE #	LENGTH	RADIUS	DELTA
C10	1.57	2.00	45°00'09"
C11	47.13	30.00	90°00'46"
C12	3.93	5.00	44°59'34"
C13	4.31	5.50	44°52'26"
C14	4.35	5.50	45°20'39"
C15	3.93	5.00	45°00'26"
C16	47.12	30.00	89°59'00"
C17	3.14	2.00	90°00'05"
C18	3.94	5.00	45°06'50"

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/24+39.85	38.47, LT	3335.91
2	BEALE ST/24+45.98	24.36, LT	3336.14
3	BEALE ST/24+50.22	20.11, LT	3336.28
4	BEALE ST/24+57.25	13.09, LT	3336.50
5	BEALE ST/24+58.66	12.50, LT	3336.53
6	BEALE ST/24+59.66	12.50, LT	3336.54
8	BEALE ST/24+70.28	14.44, LT	3336.57
9	BEALE ST/24+75.28	16.89, LT	3336.59
10	BEALE ST/24+84.17	25.19, LT	3336.63
11	BEALE ST/24+87.02	30.19, LT	3336.65
12	BEALE ST/24+89.66	42.50, LT	3336.70
13	BEALE ST/24+89.66	47.72, LT	3336.72
14	BEALE ST/24+88.20	51.25, LT	3336.73
15	BEALE ST/24+76.97	62.50, LT	3336.79
16	BEALE ST/24+75.64	66.05, LT	3336.13
17	BEALE ST/25+32.31	66.15, LT	3337.34
18	BEALE ST/25+30.70	62.24, LT	3337.34
19	BEALE ST/25+20.13	51.67, LT	3337.32
20	BEALE ST/25+18.67	48.13, LT	3337.31
21	BEALE ST/25+18.67	42.50, LT	3336.83
23	BEALE ST/25+21.31	30.20, LT	3337.10
24	BEALE ST/25+24.16	25.20, LT	3337.22
25	BEALE ST/25+33.09	16.86, LT	3337.48

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
26	BEALE ST/25+38.09	14.43, LT	3337.60
27	BEALE ST/25+48.67	12.50, LT	3337.83
28	BEALE ST/25+64.82	12.50, LT	3338.16
29	BEALE ST/25+66.24	15.91, LT	3338.34
30	BEALE ST/25+62.41	19.74, LT	3338.42
31	BEALE ST/25+66.30	24.34, LT	3338.52
32	BEALE ST/25+71.00	29.04, LT	3338.64
33	BEALE ST/25+74.53	30.50, LT	3338.68
34	BEALE ST/25+54.19	13.09, RT	3337.31
35	BEALE ST/25+52.78	12.50, RT	3337.23
36	BEALE ST/25+48.68	12.50, RT	3337.13
37	BEALE ST/25+38.10	14.43, RT	3337.02
38	BEALE ST/25+33.10	16.86, RT	3336.96
39	BEALE ST/25+24.17	25.19, RT	3336.83
40	BEALE ST/25+21.32	30.19, RT	3336.76
42	BEALE ST/25+18.68	42.51, RT	3336.63
43	BEALE ST/25+18.68	48.06, RT	3336.54
44	BEALE ST/25+20.14	51.59, RT	3336.44
45	BEALE ST/25+30.78	62.22, RT	3336.19
46	BEALE ST/25+32.39	66.10, RT	3336.13
47	BEALE ST/24+75.82	66.07, RT	3334.61
48	BEALE ST/24+77.43	62.14, RT	3334.66
49	BEALE ST/24+88.22	51.35, RT	3334.90

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
50	BEALE ST/24+89.68	47.81, RT	3334.98
51	BEALE ST/24+89.68	42.42, RT	3335.07
53	BEALE ST/24+87.04	30.19, RT	3335.28
54	BEALE ST/24+84.18	25.19, RT	3335.38
55	BEALE ST/24+75.28	16.88, RT	3335.58
56	BEALE ST/24+70.28	14.44, RT	3335.68
58	BEALE ST/24+59.68	12.50, RT	3335.86
59	BEALE ST/24+59.36	12.50, RT	3335.85
60	BEALE ST/24+57.36	14.50, RT	3335.62
61	BEALE ST/24+39.84	32.55, LT	3335.69
62	BEALE ST/24+41.30	29.03, LT	3335.99
63	BEALE ST/24+49.52	27.89, LT	3336.21
64	BEALE ST/24+53.76	23.65, LT	3336.27
65	BEALE ST/24+65.31	13.04, LT	3336.56
66	BEALE ST/24+70.28	23.89, LT	3336.47
67	BEALE ST/24+75.28	23.89, LT	3336.53
68	BEALE ST/24+78.97	19.54, LT	3336.61
69	BEALE ST/24+81.00	21.41, LT	3336.62
70	BEALE ST/24+77.17	25.19, LT	3336.55
71	BEALE ST/24+77.17	30.19, LT	3336.56
72	BEALE ST/24+88.76	35.19, LT	3336.67
73	BEALE ST/25+19.57	35.20, LT	3336.98
74	BEALE ST/25+31.16	30.20, LT	3337.49

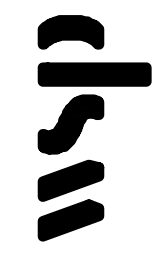
BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
75	BEALE ST/25+31.16	25.20, LT	3337.47
76	BEALE ST/25+27.33	21.41, LT	3337.33
77	BEALE ST/25+29.47	19.44, LT	3337.39
78	BEALE ST/25+33.09	23.86, LT	3337.52
79	BEALE ST/25+38.09	23.86, LT	3337.67
80	BEALE ST/25+43.14	13.01, LT	3337.71
81	BEALE ST/25+58.87	23.28, LT	3338.32
82	BEALE ST/25+63.12	27.52, LT	3338.43
83	BEALE ST/25+66.49	24.68, RT	3337.74
84	BEALE ST/25+62.60	28.56, RT	3337.68
85	BEALE ST/25+62.25	20.43, RT	3337.59
86	BEALE ST/25+58.36	24.32, RT	3337.54
87	BEALE ST/25+43.10	13.02, RT	3337.07
88	BEALE ST/25+38.10	23.86, RT	3337.12
89	BEALE ST/25+33.10	23.86, RT	3337.03
90	BEALE ST/25+29.44	19.48, RT	3336.91
91	BEALE ST/25+27.35	21.40, RT	3336.88
92	BEALE ST/25+31.17	25.19, RT	3337.00
93	BEALE ST/25+31.17	30.19, RT	3337.04
94	BEALE ST/24+19.58	35.19, RT	3336.71
95	BEALE ST/24+88.78	35.19, RT	3335.19
96	BEALE ST/24+77.19	30.20, RT	3335.23
97	BEALE ST/24+77.18	25.20, RT	3335.33

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
98	BEALE ST/24+81.01	21.41, RT	3335.46
99	BEALE ST/24+78.95	19.51, RT	3335.51
100	BEALE ST/24+75.28	23.88, RT	3335.35
101	BEALE ST/24+70.28	23.88, RT	3335.32
102	BEALE ST/24+65.28	13.03, RT	3335.76
119	BEALE ST/24+83.31	38.51, LT	3336.67
120	BEALE ST/24+87.31	38.51, LT	3336.69
121	BEALE ST/24+83.31	50.39, LT	3336.73
122	BEALE ST/24+87.31	50.39, LT	3336.73
123	BEALE ST/25+23.18	50.38, LT	3337.27
124	BEALE ST/25+27.18	50.38, LT	3337.41
125	BEALE ST/25+23.17	38.51, LT	3337.12
126	BEALE ST/25+27.17	38.51, LT	3337.31
127	BEALE ST/25+51.17	18.51, LT	3338.00
128	BEALE ST/25+51.17	14.51, LT	3337.97
129	BEALE ST/25+63.17	14.50, LT	3338.21
130	BEALE ST/25+63.17	18.50, LT	3338.38
131	BEALE ST/25+26.88	38.99, RT	3336.95
132	BEALE ST/25+22.88	38.99, RT	3336.81
133	BEALE ST/25+26.88	50.99, RT	3336.70
134	BEALE ST/25+22.88	50.99, RT	3336.52
135	BEALE ST/24+84.66	54.49, RT	3334.83
136	BEALE ST/24+80.66	54.49, RT	3334.83

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
137	BEALE ST/24+84.66	42.49, RT	3335.07
138	BEALE ST/24+80.66	42.49, RT	3335.07
139	BEALE ST/24+64.67	30.49, RT	3335.09
140	BEALE ST/24+64.66	34.49, RT	3334.99
141	BEALE ST/24+56.66	38.37, RT	3334.80
142	BEALE ST/25+71.60	30.50, RT	3337.74

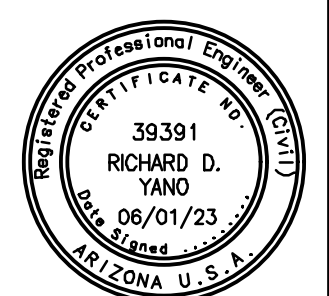
REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



INTERSECTION DETAIL
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



EXPIRES: 9/30/2024

PROJECT NO.
3720205006

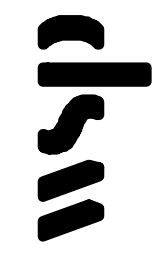
DRAWING NAME
DT05
SHEET NO. 8 of 52

File: C:\Infrastructure\Trans\Projects\2020\20205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT05.dwg

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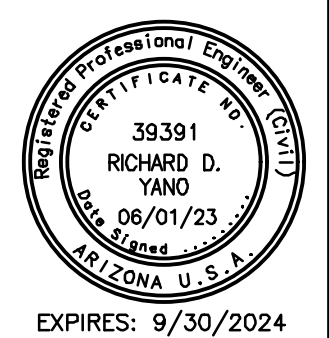
REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



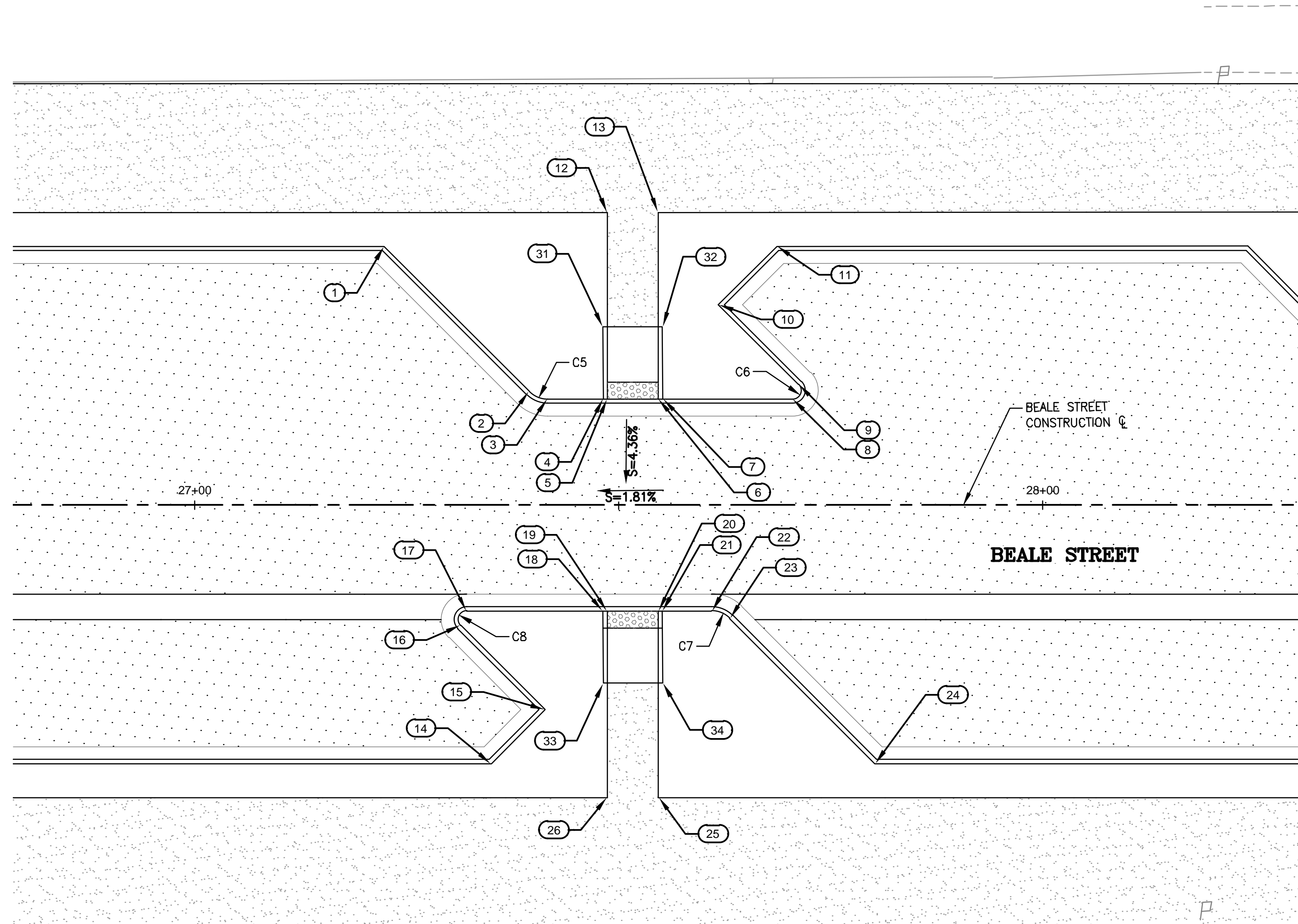
MID-BLOCK CROSSING DETAIL
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



PROJECT NO.
3720205006

DRAWING NAME
DT06
SHEET NO. 9 of 52

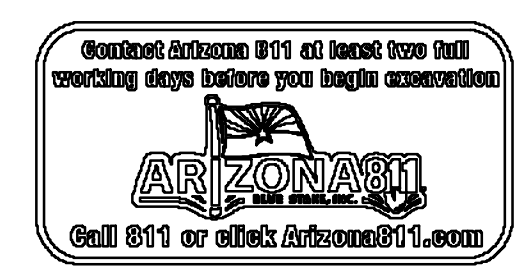
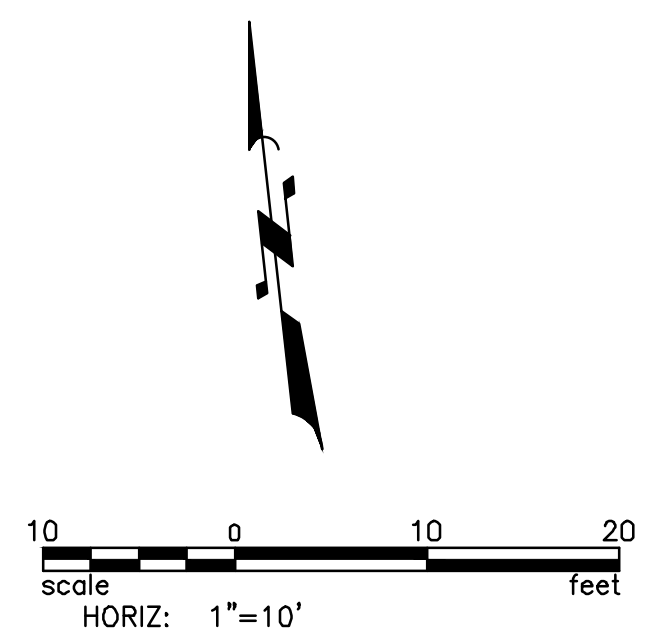


BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE STREET/27+22.36	30.49, LT	3342.91
2	BEALE STREET/27+39.48	13.37, LT	3341.98
3	BEALE STREET/27+41.60	12.49, LT	3342.00
4	BEALE STREET/27+48.19	12.53, LT	3342.12
5	BEALE STREET/27+48.65	12.49, LT	3342.13
6	BEALE STREET/27+54.65	12.49, LT	3342.23
7	BEALE STREET/27+55.19	12.49, LT	3342.24
8	BEALE STREET/27+70.47	12.49, LT	3342.50
9	BEALE STREET/27+71.18	14.19, LT	3342.57
10	BEALE STREET/27+61.75	23.62, LT	3342.86
11	BEALE STREET/27+68.62	30.49, LT	3343.79
12	BEALE STREET/27+48.65	34.50, LT	3343.71
13	BEALE STREET/27+54.65	34.50, LT	3343.78
14	BEALE STREET/27+34.96	30.50, RT	3341.61
15	BEALE STREET/27+41.32	24.15, RT	3341.12
16	BEALE STREET/27+31.39	14.22, RT	3340.99
17	BEALE STREET/27+32.09	12.51, RT	3340.99

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
18	BEALE STREET/27+48.13	12.51, RT	3341.06
19	BEALE STREET/27+48.65	12.51, RT	3341.06
20	BEALE STREET/27+54.65	12.51, RT	3341.16
21	BEALE STREET/27+55.13	12.51, RT	3341.17
22	BEALE STREET/27+60.95	12.50, RT	3341.30
23	BEALE STREET/27+63.09	13.39, RT	3341.37
24	BEALE STREET/27+80.19	30.50, RT	3342.30
25	BEALE STREET/27+54.65	34.50, RT	3341.86
26	BEALE STREET/27+48.65	34.50, RT	3341.76
31	BEALE STREET/27+48.14	20.99, LT	3342.54
32	BEALE STREET/27+55.14	20.99, LT	3342.64
33	BEALE STREET/27+48.19	21.02, RT	3341.13
34	BEALE STREET/27+55.19	21.02, RT	3341.25

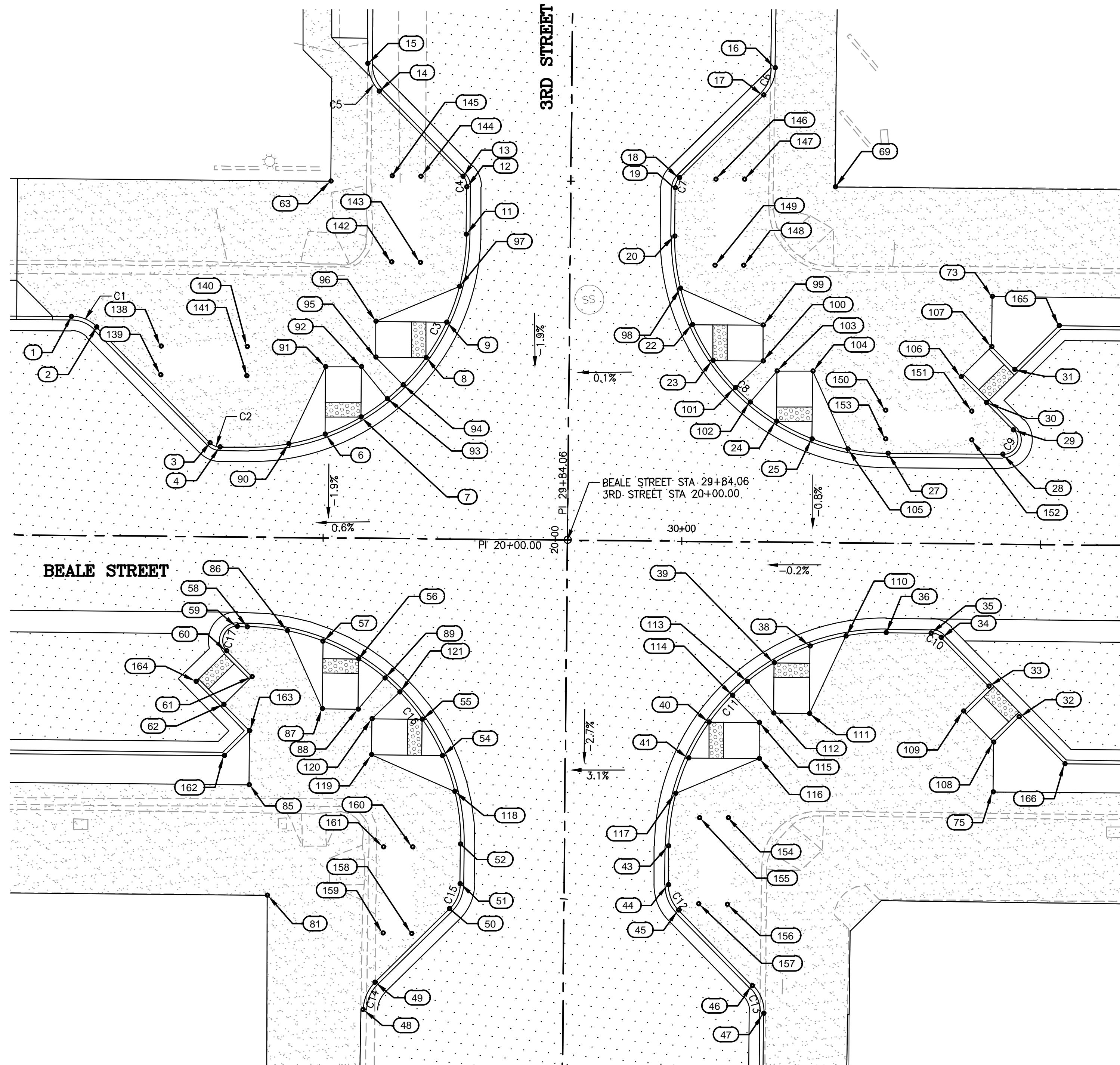
CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C5	2.36	3.00	45°00'00"
C6	2.36	1.00	135°00'00"
C7	2.36	3.00	45°00'00"
C8	2.36	1.00	135°00'00"

MID-BLOCK CROSSING BETWEEN 2ND STREET AND 3RD STREET



File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT04.dwg

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BEALE STREET AND 3RD STREET INTERSECTION

CURVE #	LENGTH	RADIUS	DELTA
C1	3.93	5.00	45°00'09"
C2	1.57	2.00	45°00'09"
C3	47.11	30.00	89°58'50"
C4	1.57	2.00	45°01'30"
C5	4.26	5.50	44°20'21"
C6	4.29	5.50	44°38'19"
C7	1.57	2.00	44°58'30"
C8	47.13	30.00	90°01'08"
C9	4.71	2.00	134°59'54"

CURVE #	LENGTH	RADIUS	DELTA
C10	1.57	2.00	45°00'06"
C11	47.13	30.00	90°00'23"
C12	3.93	5.00	45°00'00"
C13	4.33	5.50	45°08'00"
C14	4.29	5.50	44°41'01"
C15	3.93	5.00	45°00'00"
C16	47.12	30.00	89°59'40"
C17	4.71	2.00	134°59'51"

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/29+14.64	30.50, LT	3343.34
2	BEALE ST/29+18.18	29.04, LT	3343.32
3	BEALE ST/29+34.13	13.09, LT	3342.98
4	BEALE ST/29+35.54	12.50, LT	3342.93
6	BEALE ST/29+50.13	14.42, LT	3342.98
7	BEALE ST/29+55.13	16.84, LT	3343.03
8	BEALE ST/29+64.09	25.21, LT	3343.16
9	BEALE ST/29+66.94	30.21, LT	3343.22
11	BEALE ST/29+69.58	42.49, LT	3343.34
12	BEALE ST/29+69.58	49.09, LT	3343.51
13	BEALE ST/29+68.99	50.51, LT	3343.55
14	BEALE ST/29+57.22	62.28, LT	3343.65
15	BEALE ST/29+55.61	66.11, LT	???
16	BEALE ST/30+12.39	66.08, LT	3342.99
17	BEALE ST/30+10.78	62.23, LT	3343.63
18	BEALE ST/29+99.16	50.61, LT	3343.48
19	BEALE ST/29+98.58	49.20, LT	3343.45
20	BEALE ST/29+98.58	42.51, LT	3343.39
22	BEALE ST/30+01.21	30.21, LT	3343.27
23	BEALE ST/30+04.06	25.20, LT	3343.21
24	BEALE ST/30+13.01	16.85, LT	3343.09
25	BEALE ST/30+18.01	14.42, LT	3343.03
27	BEALE ST/30+28.58	12.50, LT	3342.93

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
28	BEALE ST/30+44.63	12.50, LT	3343.29
29	BEALE ST/30+46.04	15.91, LT	3343.50
30	BEALE ST/30+42.24	19.72, LT	3343.58
31	BEALE ST/30+46.13	24.32, LT	3343.67
32	BEALE ST/30+47.22	24.05, RT	3342.19
33	BEALE ST/30+42.98	19.80, RT	3342.11
34	BEALE ST/30+36.27	13.09, RT	3341.98
35	BEALE ST/30+34.85	12.50, RT	3341.95
36	BEALE ST/30+28.57	12.50, RT	3341.91
38	BEALE ST/30+18.01	14.42, RT	3341.73
39	BEALE ST/30+13.01	16.85, RT	3341.65
40	BEALE ST/30+04.07	25.18, RT	3341.45
41	BEALE ST/30+01.21	30.18, RT	3341.36
43	BEALE ST/29+98.57	42.50, RT	3341.15
44	BEALE ST/29+98.57	47.90, RT	3341.37
45	BEALE ST/30+00.03	51.44, RT	3341.25
46	BEALE ST/30+10.41	61.81, RT	3340.96
47	BEALE ST/30+12.02	65.71, RT	3340.25
48	BEALE ST/29+56.18	65.72, RT	???
49	BEALE ST/29+57.79	61.86, RT	3340.80
50	BEALE ST/29+58.10	51.54, RT	3341.15
51	BEALE ST/29+69.57	48.01, RT	3341.28
52	BEALE ST/29+69.57	42.50, RT	3341.37

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
54	BEALE ST/29+66.92	30.18, RT	3341.74
55	BEALE ST/29+64.06	25.18, RT	3341.91
56	BEALE ST/29+55.13	16.85, RT	3342.27
57	BEALE ST/29+50.13	14.42, RT	3342.43
58	BEALE ST/29+39.57	12.50, RT	3342.75
59	BEALE ST/29+38.13	12.50, RT	3342.75
60	BEALE ST/29+36.72	15.91, RT	3342.24
61	BEALE ST/29+40.28	19.47, RT	3342.39
62	BEALE ST/29+36.39	23.36, RT	3342.25
63	BEALE ST/29+50.61	49.67, LT	3343.52
69	BEALE ST/30+20.89	49.55, LT	???
73	BEALE ST/30+42.94	34.50, LT	3343.76
75	BEALE ST/30+43.69	34.50, RT	3342.12
81	BEALE ST/29+42.70	49.87, RT	???
85	BEALE ST/29+40.01	34.50, RT	3342.00
86	BEALE ST/29+45.13	13.02, RT	3342.59
87	BEALE ST/29+50.13	23.85, RT	3342.17
88	BEALE ST/29+55.13	23.85, RT	3342.09
89	BEALE ST/29+58.78	19.46, RT	3342.14
90	BEALE ST/29+45.13	13.02, LT	3342.93
91	BEALE ST/29+50.13	23.85, LT	3343.10
92	BEALE ST/29+55.13	23.84, LT	3343.12
93	BEALE ST/29+58.79	19.46, LT	3343.08

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
94	BEALE ST/29+60.93	21.43, LT	3343.11
95	BEALE ST/29+57.09	25.21, LT	3343.15
96	BEALE ST/29+57.09	30.21, LT	3343.22
97	BEALE ST/29+68.68	35.21, LT	3343.27
98	BEALE ST/29+99.49	35.21, LT	3343.32
99	BEALE ST/30+11.06	30.20, LT	3343.31
100	BEALE ST/30+11.06	25.20, LT	3343.23
101	BEALE ST/30+07.23	21.42, LT	3343.16
102	BEALE ST/30+09.35	19.47, LT	3343.13
103	BEALE ST/30+13.01	23.85, LT	3343.21
104	BEALE ST/30+18.01	23.85, LT	3343.22
105	BEALE ST/30+23.01	13.04, LT	3342.98
106	BEALE ST/30+38.70	23.26, LT	3343.57
107	BEALE ST/30+42.94	27.50, LT	3343.68
108	BEALE ST/30+43.69	27.58, RT	3342.12
109	BEALE ST/30+39.45	23.34, RT	3342.04
110	BEALE ST/30+23.01	13.01, RT	3341.82
111	BEALE ST/30+18.01	23.85, RT	3341.72
112	BEALE ST/30+13.01	23.85, RT	3341.63
113	BEALE ST/30+09.35	19.47, RT	3341.57
114	BEALE ST/30+07.25	21.40, RT	3341.53
115	BEALE ST/30+11.07	25.18, RT	3341.59
116	BEALE ST/30+11.07	30.18, RT	3341.57

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
117	BEALE ST/29+99.46	35.18, RT	3341.27
118	BEALE ST/29+68.66	35.18, RT	3341.59
119	BEALE ST/29+57.06	30.18, RT	3341.90
120	BEALE ST/29+57.06	25.18, RT	3342.03
121	BEALE ST/29+60.88	21.39, RT	3342.06
138	BEALE ST/29+27.16	26.49, LT	3343.18
139	BEALE ST/29+27.16	22.49, LT	3343.14
140	BEALE ST/29+39.16	26.49, LT	3343.13
141	BEALE ST/29+39.16	22.49, LT	3343.09
142	BEALE ST/29+59.16	38.49, LT	3343.35
143	BEALE ST/29+63.16	38.49, LT	3343.33
144	BEALE ST/29+63.14	50.49, LT	3343.52
145	BEALE ST/29+59.16	50.49, LT	3343.53
146	BEALE ST/30+04.23	50.48, LT	3343.51
147	BEALE ST/30+08.23	50.48, LT	3343.54
148	BEALE ST/30+08.22	38.48, LT	3343.42
149	BEALE ST/30+04.23	38.49, LT	3343.39
150	BEALE ST/30+28.22	18.49, LT	3343.20
151	BEALE ST/30+40.22	18.49, LT	3343.48
152	BEALE ST/30+40.22	14.49, LT	3343.29
153	BEALE ST/30+28.22	14.49, LT	3343.11
154	BEALE ST/30+06.85	38.51, RT	3341.42
155	BEALE ST/30+02.84	38.51, RT	3341.32

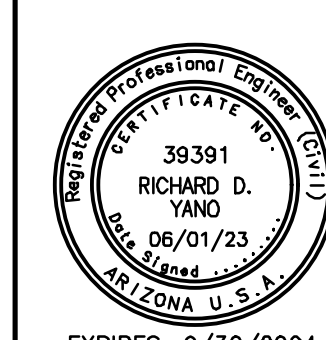
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
156	BEALE ST/30+06.82	50.51, RT	3341.29
157	BEALE ST/30+02.84	50.51, RT	3341.19
158	BEALE ST/29+62.86	55.01, RT	3341.06
159	BEALE ST/29+58.86	55.01, RT	3341.13
160	BEALE ST/29+62.86	42.99, RT	3341.48
161	BEALE ST/29+58.86	43.01, RT	3341.56
162	BEALE ST/29+36.50	30.50, RT	3341.69
163	BEALE ST/29+40.01	26.98, RT	3342.26
164	BEALE ST/29+32.50	20.18, RT	3342.25
165	BEALE ST/30+52.31	30.50, LT	3343.77
166	BEALE ST/30+53.68	30.50, RT	3342.22

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
 FAX: 602-733-6100

INTERSECTION DETAIL
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

DESIGNED BY: HMR
 DRAWN BY: AA
 CHECKED BY: DY
 DATE: JUNE 2023



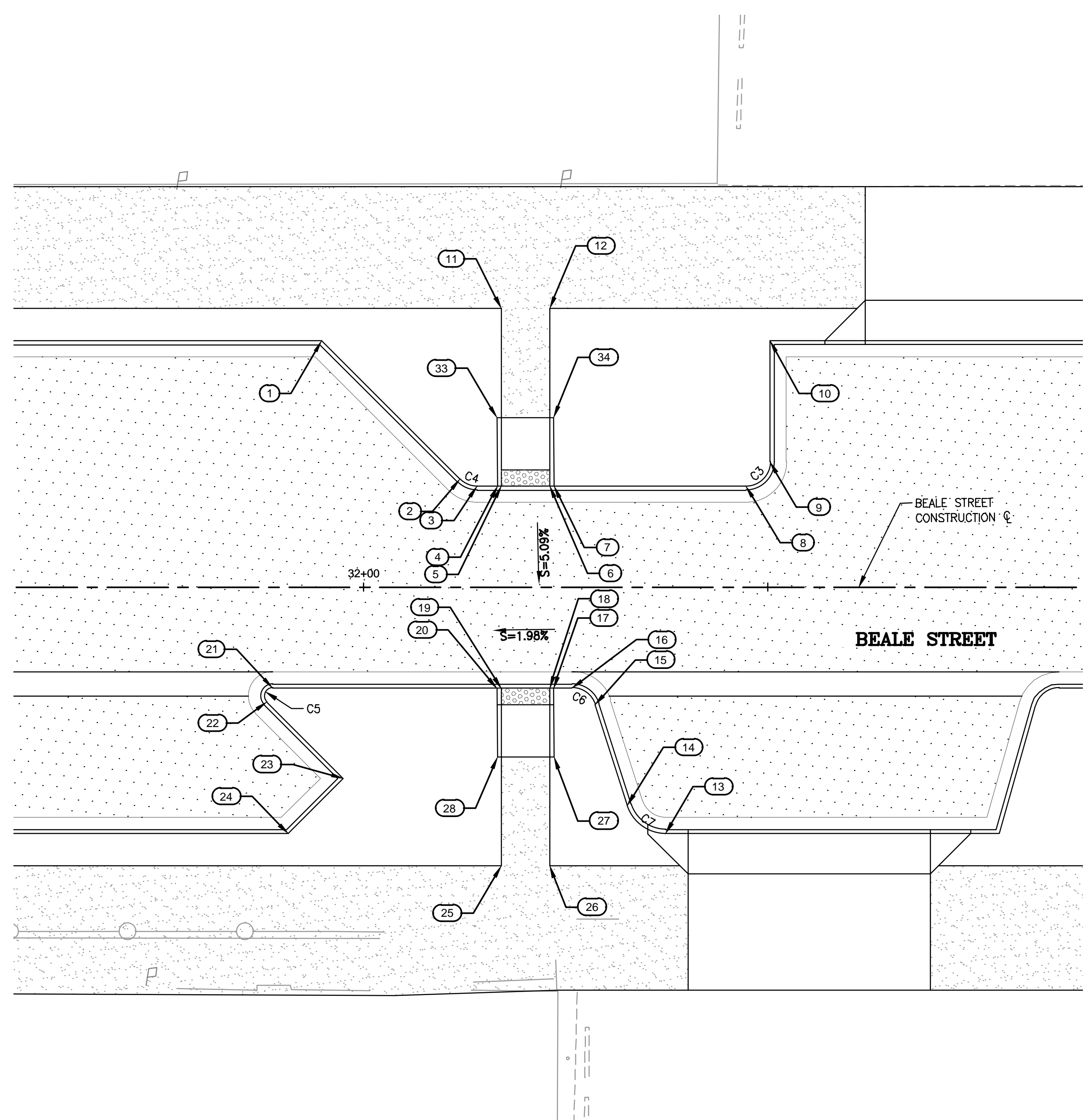
EXPIRES: 9/30/2024

PROJECT NO.
3720205006

DRAWING NAME
DT07
SHEET NO. 10 of 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006\Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT05.dwg

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MID-BLOCK CROSSING BETWEEN 3RD STREET AND 4TH STREET

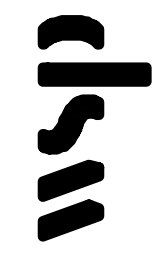
BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/31+94.80	30.50, LT	3345.99
2	BEALE ST/32+11.92	13.38, LT	3345.18
3	BEALE ST/32+14.04	12.50, LT	3345.19
4	BEALE ST/32+16.55	12.50, LT	3345.30
5	BEALE ST/32+17.01	12.50, LT	3345.31
6	BEALE ST/32+23.01	12.50, LT	3345.48
7	BEALE ST/32+23.55	12.50, LT	3345.51
8	BEALE ST/32+47.30	12.50, LT	3346.06
9	BEALE ST/32+50.30	15.50, LT	3346.24
10	BEALE ST/32+50.30	30.50, LT	3347.47
11	BEALE ST/32+17.01	34.50, LT	3346.77
12	BEALE ST/32+23.01	34.50, LT	3347.09
13	BEALE ST/32+37.38	30.50, RT	3345.30
14	BEALE ST/32+32.62	27.03, RT	3344.63
15	BEALE ST/32+28.62	14.58, RT	3344.44
16	BEALE ST/32+25.76	12.50, RT	3344.29
17	BEALE ST/32+23.49	12.53, RT	3344.25

BACK OF CURB STAKING TABLE			
PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
18	BEALE ST/32+23.00	12.53, RT	3344.24
19	BEALE ST/32+17.00	12.53, RT	3344.15
20	BEALE ST/32+16.49	12.53, RT	3344.14
21	BEALE ST/31+88.70	12.50, RT	3343.67
22	BEALE ST/31+88.00	14.21, RT	3343.71
23	BEALE ST/31+97.45	23.66, RT	3343.94
24	BEALE ST/31+90.62	30.50, RT	3344.34
25	BEALE ST/32+17.00	34.50, RT	3344.82
26	BEALE ST/32+23.00	34.50, RT	3344.91
27	BEALE ST/32+23.54	21.03, RT	3344.34
28	BEALE ST/32+16.54	21.03, RT	3344.23
33	BEALE ST/32+16.49	20.97, LT	3345.70
34	BEALE ST/32+23.50	20.98, LT	3345.97

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	4.71	3.00	89°59'54"
C4	2.36	3.00	45°00'06"
C5	2.36	1.00	134°59'54"
C6	3.78	3.00	72°11'32"
C7	6.30	5.00	72°11'32"

REVISIONS:

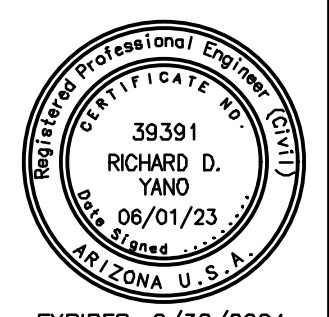
WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



MID-BLOCK CROSSING DETAIL

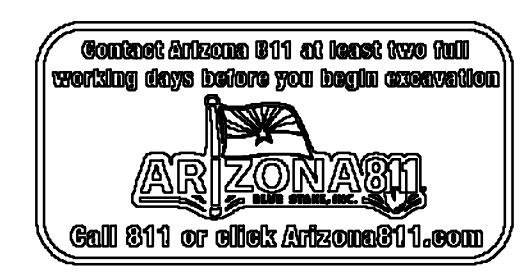
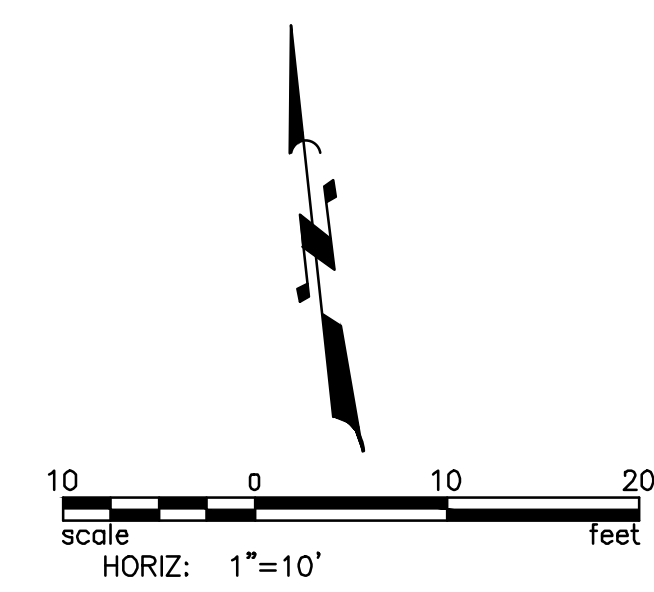
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



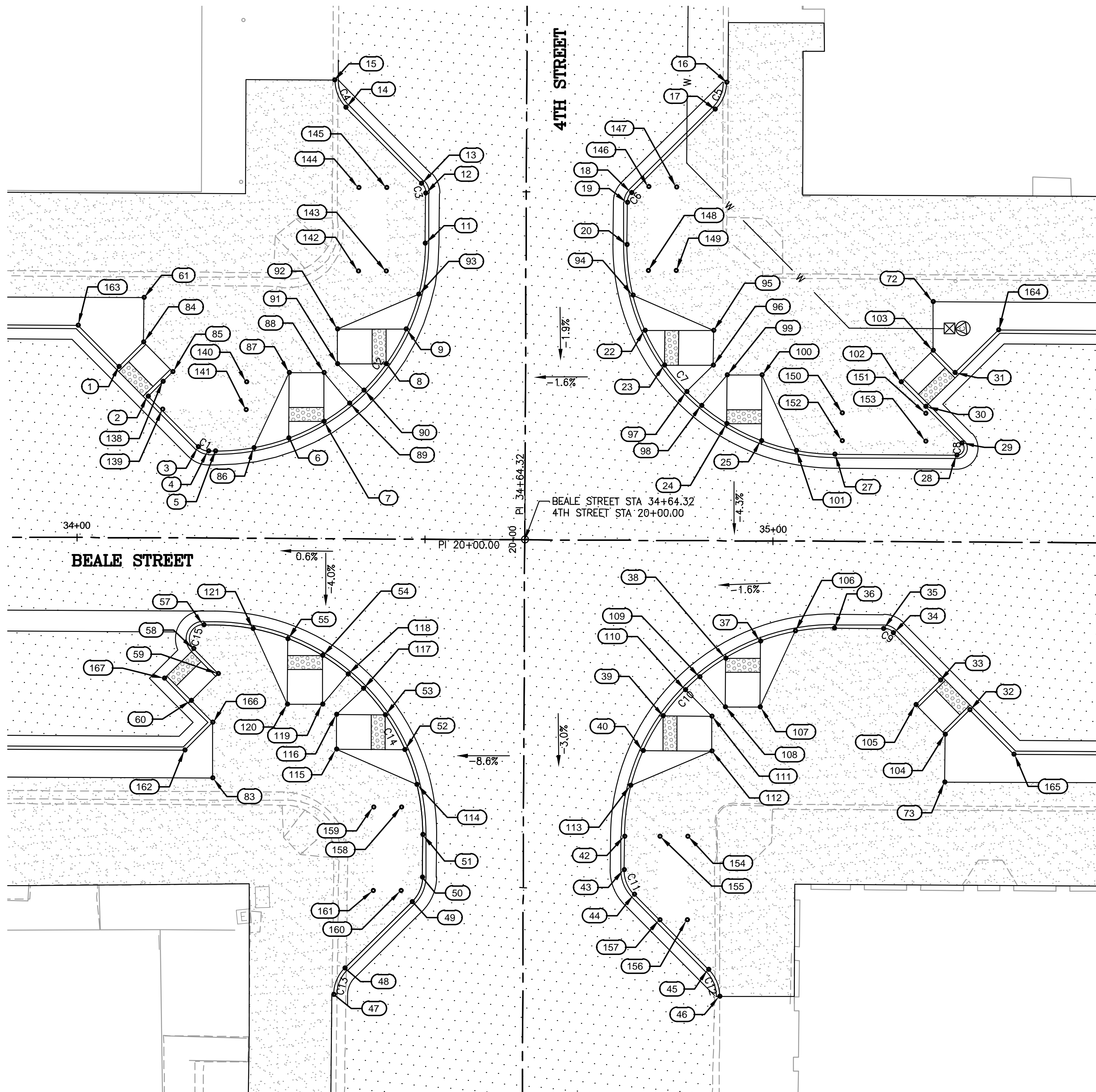
PROJECT NO.
3720205006

DRAWING NAME
DT08
SHEET NO. 11 of 52



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BEALE STREET AND 4TH STREET INTERSECTION

CURVE #	LENGTH	RADIUS	DELTA
C1	1.57	2.00	45°00'06"
C2	47.14	30.00	90°02'03"
C3	1.57	2.00	44°58'19"
C4	4.33	5.50	45°08'10"
C5	4.32	5.50	45°02'17"
C6	1.57	2.00	45°01'41"
C7	47.10	30.00	89°57'48"
C8	2.36	1.00	134°59'39"

CURVE #	LENGTH	RADIUS	DELTA
C9	1.57	2.00	44°59'58"
C10	47.15	30.00	90°03'25"
C11	3.92	5.00	44°57'06"
C12	4.29	5.50	44°41'06"
C13	4.28	5.50	44°34'09"
C14	47.10	30.00	89°56'43"
C15	4.71	2.00	134°59'54"

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/34+05.87	24.59, LT	3350.48
2	BEALE ST/34+10.12	20.35, LT	3350.54
3	BEALE ST/34+17.38	13.09, LT	3350.64
4	BEALE ST/34+18.79	12.50, LT	3350.67
5	BEALE ST/34+19.79	12.50, LT	3350.68
6	BEALE ST/34+30.37	14.43, LT	3350.85
7	BEALE ST/34+35.37	16.86, LT	3350.94
8	BEALE ST/34+44.27	25.16, LT	3351.13
9	BEALE ST/34+47.14	30.16, LT	3351.22
11	BEALE ST/34+49.79	42.52, LT	3351.42
12	BEALE ST/34+49.79	49.70, LT	3351.53
13	BEALE ST/34+49.20	51.11, LT	3351.58
14	BEALE ST/34+38.30	62.01, LT	3351.81
15	BEALE ST/34+36.69	65.91, LT	3351.20
16	BEALE ST/34+92.98	65.87, LT	3351.85
17	BEALE ST/34+91.37	61.98, LT	3352.53
18	BEALE ST/34+79.37	49.98, LT	3352.58
19	BEALE ST/34+78.79	48.56, LT	3352.54
20	BEALE ST/34+78.79	42.48, LT	3352.38
22	BEALE ST/34+81.43	30.19, LT	3352.33
23	BEALE ST/34+84.29	25.19, LT	3352.30
24	BEALE ST/34+93.27	16.83, LT	3352.25
25	BEALE ST/34+98.27	14.41, LT	3352.23

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
27	BEALE ST/35+08.79	12.50, LT	3352.18
28	BEALE ST/35+26.32	12.50, LT	3352.51
29	BEALE ST/35+27.03	14.21, LT	3352.56
30	BEALE ST/35+21.82	19.41, LT	3352.52
31	BEALE ST/35+26.01	24.31, LT	3352.61
32	BEALE ST/35+28.39	24.13, RT	3351.10
33	BEALE ST/35+24.15	19.88, RT	3351.30
34	BEALE ST/35+17.35	13.09, RT	3351.61
35	BEALE ST/35+15.93	12.50, RT	3351.61
36	BEALE ST/35+08.86	12.50, RT	3351.50
37	BEALE ST/34+98.27	14.43, RT	3351.14
38	BEALE ST/34+93.27	16.87, RT	3350.96
39	BEALE ST/34+84.33	25.23, RT	3350.55
40	BEALE ST/34+81.48	30.23, RT	3350.36
42	BEALE ST/34+78.86	42.53, RT	3349.93
43	BEALE ST/34+78.87	47.38, RT	3349.76
44	BEALE ST/34+80.33	50.92, RT	3349.43
45	BEALE ST/34+91.03	61.61, RT	3348.71
46	BEALE ST/34+92.64	65.47, RT	3348.06
47	BEALE ST/34+37.21	65.52, RT	3348.12
48	BEALE ST/34+38.82	61.68, RT	3348.18
49	BEALE ST/34+48.40	52.09, RT	3348.52
50	BEALE ST/34+49.87	48.55, RT	3348.65

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
51	BEALE ST/34+49.86	42.47, RT	3348.80
52	BEALE ST/34+47.25	30.26, RT	3349.14
53	BEALE ST/34+44.41	25.26, RT	3349.29
54	BEALE ST/34+35.37	16.82, RT	3349.62
55	BEALE ST/34+30.37	14.40, RT	3349.76
57	BEALE ST/34+18.25	12.50, RT	3350.09
58	BEALE ST/34+16.84	15.91, RT	3350.13
59	BEALE ST/34+20.41	19.49, RT	3349.81
60	BEALE ST/34+16.52	23.37, RT	3349.74
61	BEALE ST/34+09.41	34.50, LT	3350.67
72	BEALE ST/35+22.83	34.50, LT	3352.70
73	BEALE ST/35+24.85	34.50, RT	3350.49
83	BEALE ST/34+19.65	34.50, RT	3349.27
84	BEALE ST/34+09.41	28.13, LT	3350.59
85	BEALE ST/34+13.65	23.89, LT	3350.63
86	BEALE ST/34+25.37	13.02, LT	3350.77
87	BEALE ST/34+30.37	23.86, LT	3350.93
88	BEALE ST/34+35.37	23.86, LT	3351.00
89	BEALE ST/34+39.03	19.48, LT	3351.01
90	BEALE ST/34+41.09	21.37, LT	3351.06
91	BEALE ST/34+37.27	25.15, LT	3351.04
92	BEALE ST/34+37.27	30.15, LT	3351.08
93	BEALE ST/34+48.88	35.16, LT	3351.31

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
94	BEALE ST/34+79.70	35.19, LT	3352.35
95	BEALE ST/34+91.28	30.20, LT	3352.40
96	BEALE ST/34+91.29	25.20, LT	3352.34
97	BEALE ST/34+87.46	21.41, LT	3352.28
98	BEALE ST/34+89.61	19.43, LT	3352.27
99	BEALE ST/34+93.27	23.83, LT	3352.33
100	BEALE ST/34+98.27	23.83, LT	3352.35
101	BEALE ST/35+03.27	13.01, LT	3352.20
102	BEALE ST/35+18.29	22.95, LT	3352.51
103	BEALE ST/35+22.83	27.49, LT	3352.61
104	BEALE ST/35+24.85	27.66, RT	3350.88
105	BEALE ST/35+20.61	23.42, RT	3351.08
106	BEALE ST/35+03.27	12.91, RT	3351.32
107	BEALE ST/34+98.27	23.87, RT	3350.74
108	BEALE ST/34+93.27	23.87, RT	3350.67
109	BEALE ST/34+89.58	19.59, RT	3350.81
110	BEALE ST/34+87.51	21.44, RT	3350.71
111	BEALE ST/34+91.33	25.22, RT	3350.58
112	BEALE ST/34+91.34	30.22, RT	3350.34
113	BEALE ST/34+79.74	35.23, RT	3350.18
114	BEALE ST/34+48.97	35.26, RT	3349.00
115	BEALE ST/34+37.42	30.27, RT	3349.28
116	BEALE ST/34+37.41	25.27, RT	3349.37

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
117	BEALE ST/34+41.27	21.48, RT	3349.42
118	BEALE ST/34+39.02	19.42, RT	3349.50
119	BEALE ST/34+35.37	23.82, RT	3349.43
120	BEALE ST/34+30.37	23.82, RT	3349.49
121	BEALE ST/34+25.37	13.01, RT	3349.90
138	BEALE ST/34+12.21	22.48, LT	3350.59
139	BEALE ST/34+12.21	18.48, LT	3350.57
140	BEALE ST/34+24.21	22.47, LT	3350.82
141	BEALE ST/34+24.21	18.47, LT	3350.78
142	BEALE ST/34+40.21	38.47, LT	3351.20
143	BEALE ST/34+44.21	38.47, LT	3351.27
144	BEALE ST/34+40.21	50.47, LT	3351.41
145	BEALE ST/34+44.21	50.47, LT	3351.50
146	BEALE ST/34+81.84	50.79, LT	3352.53
147	BEALE ST/34+85.84	50.79, LT	3352.56
148	BEALE ST/34+81.84	38.79, LT	3352.39
149	BEALE ST/34+85.84	38.80, LT	3352.43
150	BEALE ST/35+09.84	18.47, LT	3352.35
151	BEALE ST/35+21.84	18.47, LT	3352.50
152	BEALE ST/35+09.84	14.47, LT	3352.27
153	BEALE ST/35+21.84	14.47, LT	3352.45
154	BEALE ST/34+87.98	42.52, RT	3349.71
155	BEALE ST/34+83.98	42.52, RT	3349.74

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
156	BEALE ST/34+87.93	54.52, RT	3349.15
157	BEALE ST/34+83.98	54.52, RT	3349.19
158	BEALE ST/34+46.82	38.52, RT	3348.97
159	BEALE ST/34+42.82	38.52, RT	3349.05
160	BEALE ST/34+46.82	50.52, RT	3348.58
161	BEALE ST/34+42.82	50.52, RT	3348.68
162	BEALE ST/34+15.65	30.50, RT	3348.92
163	BEALE ST/33+99.97	30.50, LT	3350.39
164	BEALE ST/35+32.21	30.50, LT	3352.72
165	BEALE ST/35+34.76	30.50, RT	3350.72
166	BEALE ST/34+19.65	26.50, RT	3349.56
167	BEALE ST/34+12.63	20.19, RT	3349.93

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
 FAX: 602-733-6100

INTERSECTION DETAIL
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

PROJECT:

DESIGNED BY: HMR
 DRAWN BY: AA
 CHECKED BY: DY
 DATE: JUNE 2023

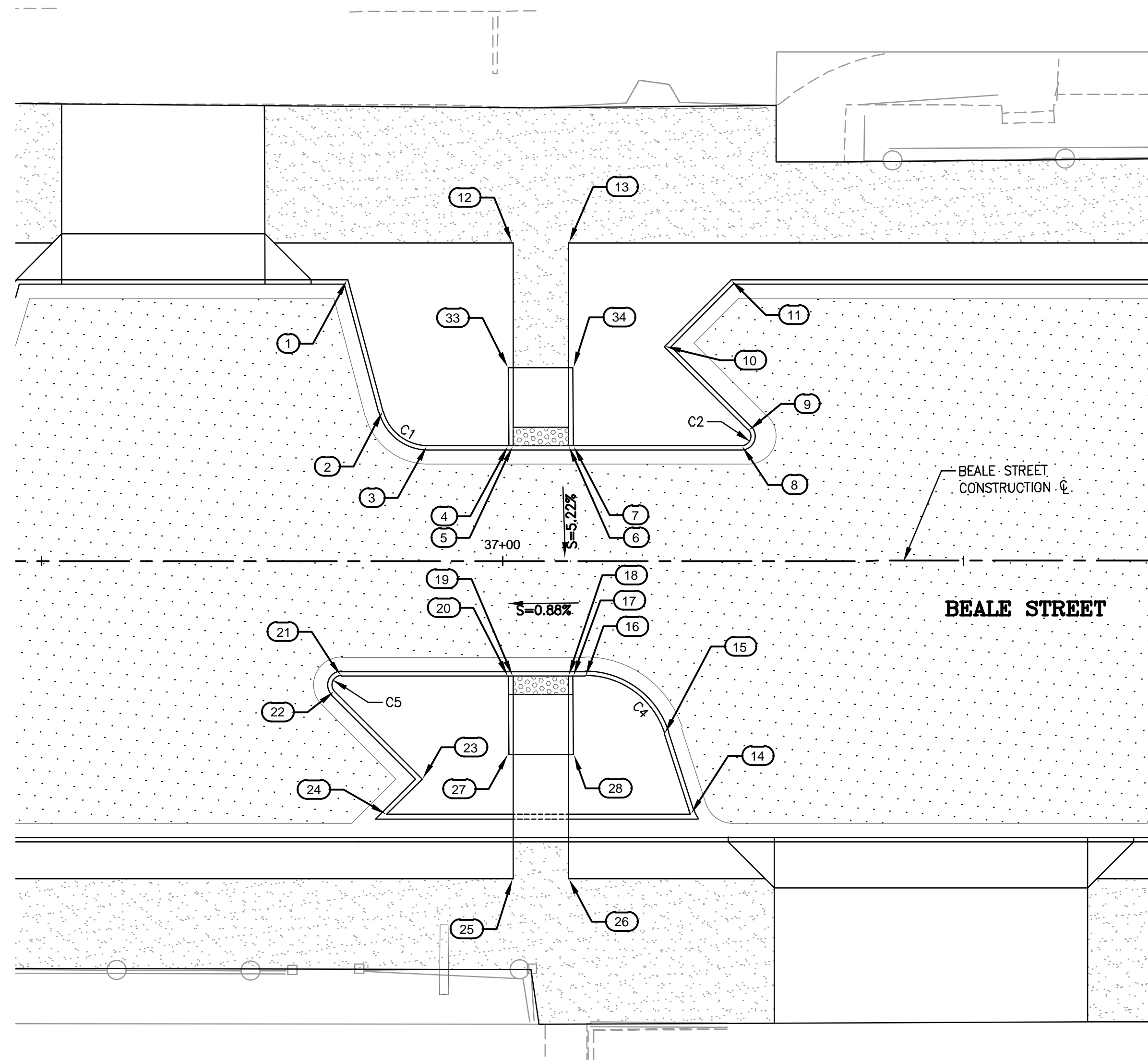
REGISTERED PROFESSIONAL ENGINEER (C.E.)
 39391
 RICHARD D. YANO
 06/01/23
 STATE OF ARIZONA U.S.A.
 EXPIRES: 9/30/2024

PROJECT NO.
 3720205006

DRAWING NAME
DT09
 SHEET NO. 12 OF 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT09.dwg

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MID-BLOCK CROSSING BETWEEN 4TH STREET AND 5TH STREET

BACK OF CURB STAKING TABLE

POINT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/36+83.20	30.50, LT	3354.48
2	BEALE ST/36+87.06	16.20, LT	3353.26
3	BEALE ST/36+91.88	12.50, LT	3353.15
4	BEALE ST/37+00.67	12.46, LT	3353.28
5	BEALE ST/37+01.13	12.46, LT	3353.28
6	BEALE ST/37+07.13	12.46, LT	3353.31
7	BEALE ST/37+07.67	12.46, LT	3353.32
8	BEALE ST/37+25.93	12.47, LT	3353.47
9	BEALE ST/37+26.64	14.17, LT	3353.56
10	BEALE ST/37+17.56	23.25, LT	3353.93
11	BEALE ST/37+24.78	30.47, LT	3354.89
12	BEALE ST/37+01.13	34.50, LT	3354.88
13	BEALE ST/37+07.13	34.50, LT	3354.90
14	BEALE ST/37+20.37	27.50, RT	3351.95
15	BEALE ST/37+17.54	18.78, RT	3352.13
16	BEALE ST/37+08.97	12.54, RT	3352.05
17	BEALE ST/37+07.62	12.54, RT	3352.02

BACK OF CURB STAKING TABLE

POINT #	ALIGNMENT/STATION	OFFSET	ELEVATION
18	BEALE ST/37+07.13	12.50, RT	3352.02
19	BEALE ST/37+01.13	12.50, RT	3351.95
20	BEALE ST/37+00.62	12.54, RT	3351.94
21	BEALE ST/36+82.52	12.50, RT	3351.78
22	BEALE ST/36+81.81	14.21, RT	3351.68
23	BEALE ST/36+91.28	23.67, RT	3351.27
24	BEALE ST/36+87.45	27.50, RT	3351.03
25	BEALE ST/37+01.13	34.50, RT	3351.78
26	BEALE ST/37+07.13	34.50, RT	3352.02
27	BEALE ST/37+00.67	21.01, RT	3351.50
28	BEALE ST/37+07.67	21.00, RT	3351.69
33	BEALE ST/37+00.62	20.97, LT	3353.74
34	BEALE ST/37+07.62	20.97, LT	3353.76

CURB TABLE

CURVE #	LENGTH	RADIUS	DELTA
C1	6.54	5.00	74°53'57"
C2	2.36	1.00	135°00'02"
C4	11.34	9.00	72°11'24"
C5	2.36	1.00	135°00'02"

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
 FAX: 602-733-6100

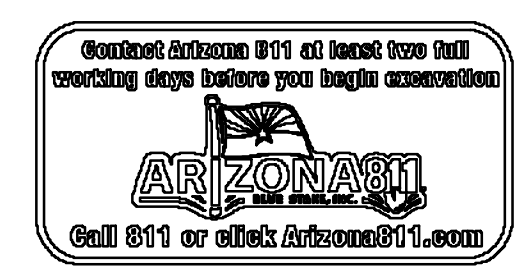
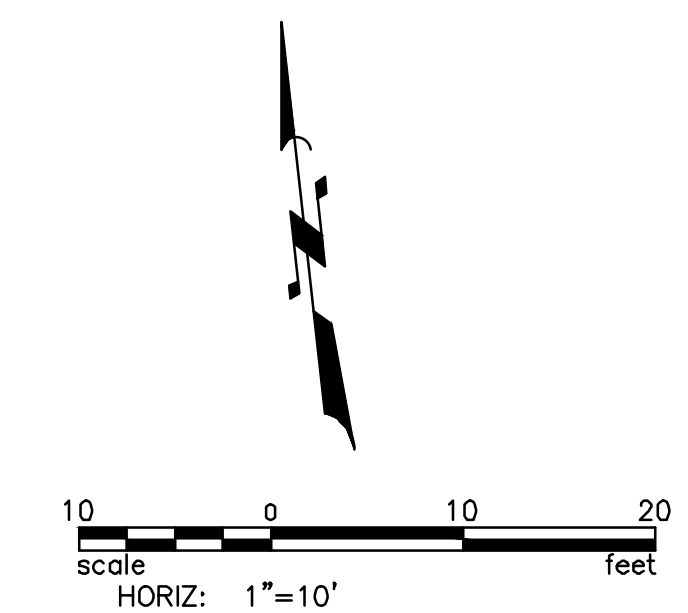
MID-BLOCK CROSSING DETAIL
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

DESIGNED BY: HMR
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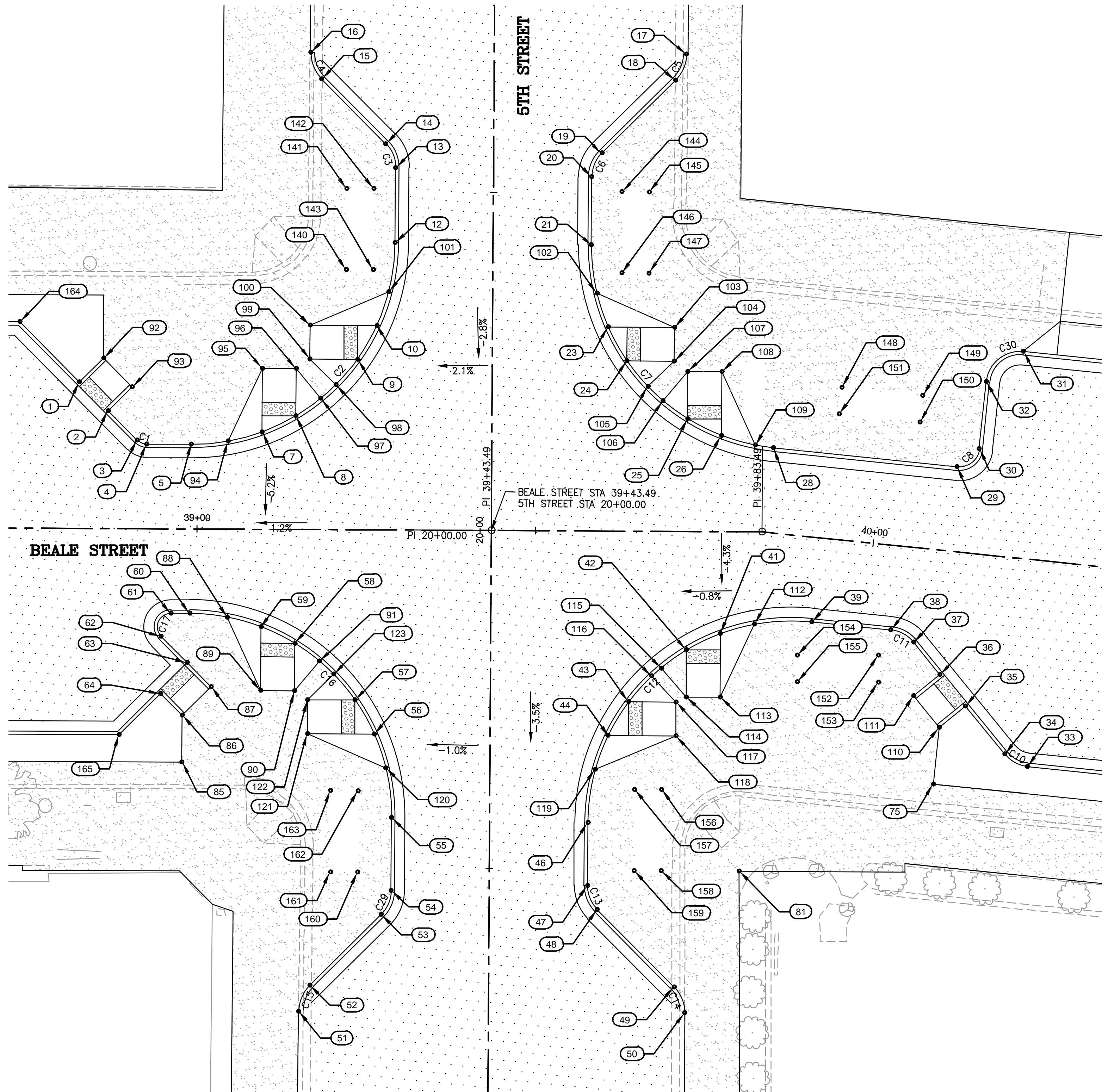
PROJECT NO.
 3720205006

DRAWING NAME
DT10
 SHEET NO. 13 OF 52



File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT10.dwg

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BEALE STREET AND 5TH STREET INTERSECTION

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/38+82.50	21.65, LT	3355.82
2	BEALE ST/38+86.74	17.41, LT	3355.72
3	BEALE ST/38+91.07	13.09, LT	3355.63
4	BEALE ST/38+92.48	12.50, LT	3355.57
5	BEALE ST/38+99.03	12.50, LT	3355.52
7	BEALE ST/39+09.51	14.39, LT	3355.63
8	BEALE ST/39+14.51	16.80, LT	3355.68
9	BEALE ST/39+23.55	25.21, LT	3355.81
10	BEALE ST/39+26.40	30.21, LT	3355.86
12	BEALE ST/39+29.03	42.47, LT	3355.99
13	BEALE ST/39+29.04	53.57, LT	3356.41
14	BEALE ST/39+27.57	57.11, LT	3356.62
15	BEALE ST/39+18.04	66.64, LT	3356.96
16	BEALE ST/39+16.43	70.57, LT	???
17	BEALE ST/39+71.97	70.58, LT	???
18	BEALE ST/39+70.36	66.72, LT	3356.65
19	BEALE ST/39+59.52	55.88, LT	3356.36
20	BEALE ST/39+58.05	52.35, LT	3356.17
21	BEALE ST/39+58.04	42.29, LT	3355.81
23	BEALE ST/39+60.58	30.17, LT	3355.61
24	BEALE ST/39+63.38	25.17, LT	3355.52
25	BEALE ST/39+72.40	16.66, LT	3355.31
26	BEALE ST/39+77.40	14.21, LT	3355.22
28	BEALE ST/39+83.90	12.50, LT	3355.10

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
29	BEALE ST/40+11.14	12.50, LT	3355.35
30	BEALE ST/40+14.14	15.50, LT	3355.49
31	BEALE ST/40+19.14	30.50, LT	3355.02
32	BEALE ST/40+14.14	25.50, LT	3355.44
33	BEALE ST/40+26.03	30.50, RT	3352.55
34	BEALE ST/40+22.50	29.04, RT	3352.65
35	BEALE ST/40+16.02	22.56, RT	3353.43
36	BEALE ST/40+11.78	18.32, RT	3353.95
37	BEALE ST/40+07.42	13.96, RT	3354.48
38	BEALE ST/40+03.89	12.50, RT	3354.59
39	BEALE ST/39+92.13	12.50, RT	3354.47
41	BEALE ST/39+77.39	15.06, RT	3354.10
42	BEALE ST/39+72.36	17.50, RT	3353.95
43	BEALE ST/39+63.88	25.22, RT	3353.63
44	BEALE ST/39+60.87	30.21, RT	3353.47
46	BEALE ST/39+57.94	43.11, RT	3353.11
47	BEALE ST/39+57.93	52.44, RT	3352.87
48	BEALE ST/39+59.39	55.98, RT	3352.71
49	BEALE ST/39+70.79	67.37, RT	3352.01
50	BEALE ST/39+72.40	71.20, RT	???
51	BEALE ST/39+15.36	71.26, RT	???
52	BEALE ST/39+16.97	67.40, RT	3351.86
53	BEALE ST/39+27.48	56.89, RT	3352.65
54	BEALE ST/39+28.94	53.36, RT	3352.86

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
55	BEALE ST/39+28.95	42.53, RT	3353.12
56	BEALE ST/39+26.31	30.18, RT	3353.54
57	BEALE ST/39+23.45	25.18, RT	3353.72
58	BEALE ST/39+14.51	16.85, RT	3354.12
59	BEALE ST/39+09.51	14.42, RT	3354.30
60	BEALE ST/38+98.95	12.50, RT	3354.65
61	BEALE ST/38+96.18	12.50, RT	3354.67
62	BEALE ST/38+94.76	15.91, RT	3354.35
63	BEALE ST/38+98.63	19.78, RT	3354.21
64	BEALE ST/38+94.74	24.38, RT	3353.87
75	BEALE ST/40+12.48	34.50, RT	3353.07
81	BEALE ST/39+80.33	50.19, RT	3352.75
85	BEALE ST/38+97.92	34.50, RT	3353.22
86	BEALE ST/38+97.92	27.56, RT	3353.68
87	BEALE ST/39+02.17	23.32, RT	3353.93
88	BEALE ST/39+04.51	13.02, RT	3354.47
89	BEALE ST/39+09.51	23.85, RT	3353.85
90	BEALE ST/39+14.51	23.85, RT	3353.83
91	BEALE ST/39+18.17	19.46, RT	3353.98
92	BEALE ST/38+86.04	25.19, LT	3355.86
93	BEALE ST/38+90.28	20.95, LT	3355.76
94	BEALE ST/39+04.51	13.01, LT	3355.58
95	BEALE ST/39+09.51	23.80, LT	3355.79
96	BEALE ST/39+14.51	23.80, LT	3355.80

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
97	BEALE ST/39+18.16	19.39, LT	3355.73
98	BEALE ST/39+20.38	21.43, LT	3355.76
99	BEALE ST/39+16.55	25.22, LT	3355.82
100	BEALE ST/39+16.55	30.22, LT	3355.90
101	BEALE ST/39+28.13	35.21, LT	3355.92
102	BEALE ST/39+58.89	35.17, LT	3355.69
103	BEALE ST/39+70.39	30.16, LT	3355.52
104	BEALE ST/39+70.38	25.16, LT	3355.45
105	BEALE ST/39+66.49	21.39, LT	3355.44
106	BEALE ST/39+68.73	19.29, LT	3355.39
107	BEALE ST/39+72.40	23.66, LT	3355.41
108	BEALE ST/39+77.40	23.66, LT	3355.37
109	BEALE ST/39+82.40	12.79, LT	3355.14
110	BEALE ST/40+12.48	26.09, RT	3353.34
111	BEALE ST/40+08.24	21.85, RT	3353.74
112	BEALE ST/39+82.39	13.66, RT	3354.24
113	BEALE ST/39+77.39	24.49, RT	3353.79
114	BEALE ST/39+72.39	24.48, RT	3353.71
115	BEALE ST/39+68.69	20.24, RT	3353.82
116	BEALE ST/39+67.28	21.41, RT	3353.77
117	BEALE ST/39+70.88	25.23, RT	3353.66
118	BEALE ST/39+70.88	30.23, RT	3353.49
119	BEALE ST/39+59.01	35.21, RT	3353.33
120	BEALE ST/39+28.05	35.18, RT	3353.36

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
121	BEALE ST/39+16.44	30.17, RT	3353.58
122	BEALE ST/39+16.45	25.17, RT	3353.76
123	BEALE ST/39+20.27	21.39, RT	3353.88
140	BEALE ST/39+21.82	38.48, LT	3355.99
141	BEALE ST/39+21.82	50.48, LT	3356.29
142	BEALE ST/39+25.82	50.48, LT	3356.29
143	BEALE ST/39+25.82	38.48, LT	3355.97
144	BEALE ST/39+62.54	50.17, LT	3356.03
145	BEALE ST/39+66.54	50.16, LT	3355.97
146	BEALE ST/39+62.54	38.17, LT	3355.70
147	BEALE ST/39+66.54	38.16, LT	3355.67
148	BEALE ST/39+93.03	22.47, LT	3355.31
149	BEALE ST/40+05.03	22.47, LT	3355.36
150	BEALE ST/40+05.03	18.50, LT	3355.32
151	BEALE ST/39+93.03	18.50, LT	3355.26
152	BEALE ST/40+02.45	16.42, RT	3354.11
153	BEALE ST/40+02.85	20.40, RT	3353.90
154	BEALE ST/39+90.51	17.60, RT	3354.25
155	BEALE ST/39+90.91	21.57, RT	3354.05
156	BEALE ST/39+68.83	38.18, RT	3353.19
157	BEALE ST/39+64.83	38.18, RT	3353.17
158	BEALE ST/39+68.83	50.18, RT	3352.78
159	BEALE ST/39+64.83	50.19, RT	3352.75
160	BEALE ST/39+23.95	50.65, RT	3352.79

PT #	ALIGNMENT/STATION	OFFSET	ELEVATION
161	BEALE ST/39+19.95	50.66, RT	3352.77
162	BEALE ST/39+23.94	38.59, RT	3353.21
163	BEALE ST/39+19.95	38.59, RT	3353.17
164	BEALE ST/38+73.66	30.50, LT	3356.01
165	BEALE ST/38+88.62	30.50, RT	3353.41

CURVE #	LENGTH	RADIUS	DELTA
C1	1.57	2.00	44°59'58"
C2	47.10	30.00	89°56'46"
C3	3.93	5.00	45°03'44"
C4	4.36	5.50	45°26'37"
C5	4.29	5.50	44°39'43"

CURVE #	LENGTH	RADIUS	DELTA
C6	3.92	5.00	44°56'16"
C7	44.23	30.00	84°28'14"
C8	4.71	3.00	90°00'04"
C10	3.93	5.00	44°59'56"
C11	3.93	5.00	44°59'56"

CURVE #	LENGTH	RADIUS	DELTA
C12	50.02	30.00	95°32'01"
C13	3.93	5.00	45°03'29"
C14	4.30	5.50	44°46'38"
C15	4.29	5.50	44°41'17"
C16	47.15	30.00	90°02'59"

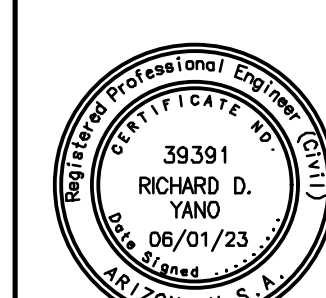
CURVE #	LENGTH	RADIUS	DELTA
C17	4.71	2.00	135°00'02"
C29	3.92	5.00	44°56'31"
C30	7.85	5.00	90°00'57"

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
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INTERSECTION DETAIL
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

DESIGNED BY: HMR
 DRAWN BY: AA
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 DATE: JUNE 2023



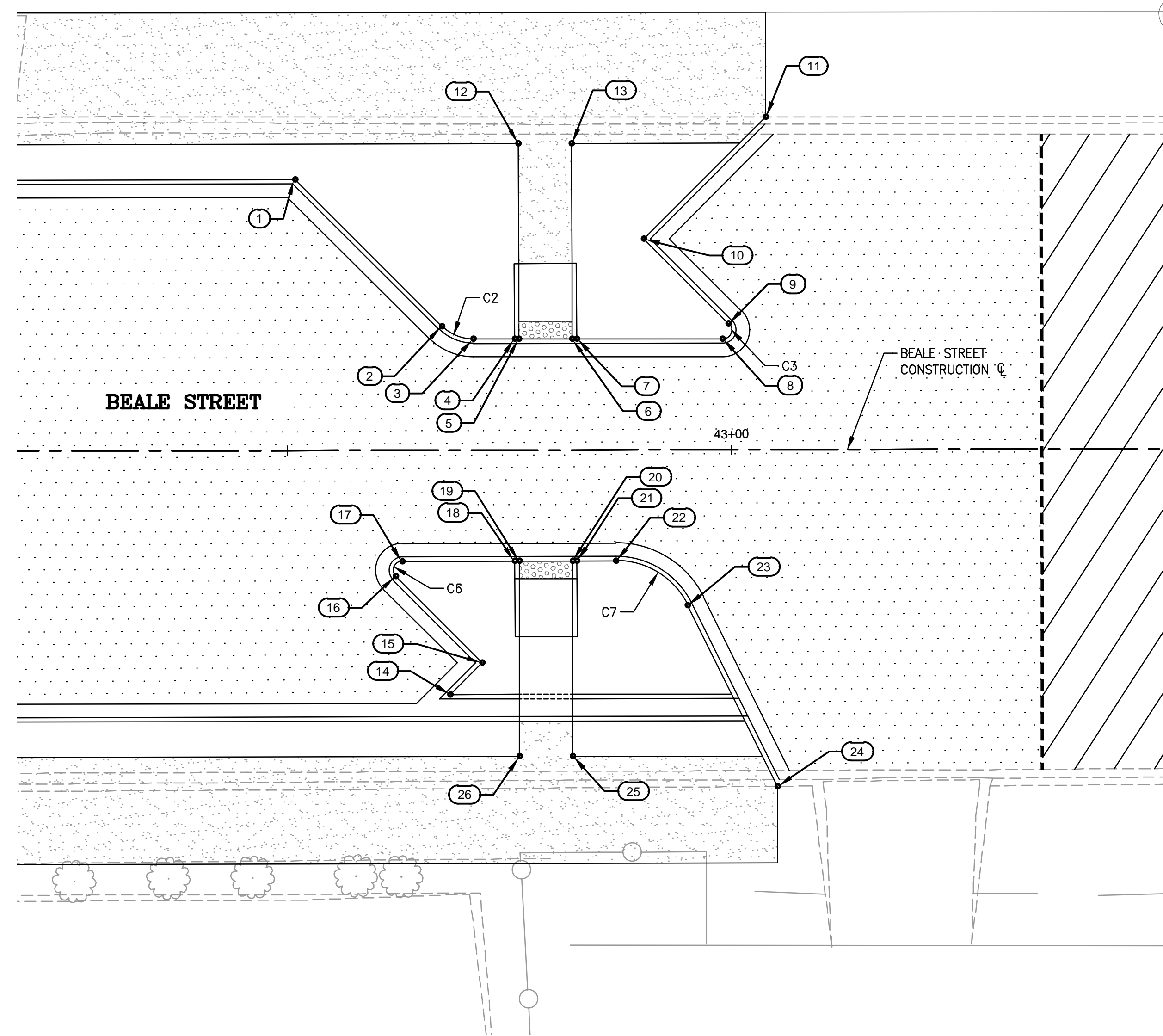
EXPIRES: 9/30/2024

PROJECT NO.
372025006

DRAWING NAME
DT11
SHEET NO. 14 of 52

File: C:\Infrastructure\Trans\Projects\2020\05006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT09.dwg

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MID-BLOCK CROSSING BETWEEN 5TH STREET AND 6TH STREET

BACK OF CURB STAKING TABLE

POINT #	ALIGNMENT/STATION	OFFSET	ELEVATION
1	BEALE ST/42+50.92	30.50, LT	3354.92
2	BEALE ST/42+67.46	13.96, LT	3353.64
3	BEALE ST/42+70.99	12.50, LT	3353.59
4	BEALE ST/42+75.64	12.50, LT	3353.59
5	BEALE ST/42+76.10	12.50, LT	3353.59
6	BEALE ST/42+82.10	12.50, LT	3353.60
7	BEALE ST/42+82.64	12.50, LT	3353.60
8	BEALE ST/42+99.04	12.50, LT	3353.61
9	BEALE ST/42+99.74	14.21, LT	3353.69
10	BEALE ST/42+90.23	23.72, LT	3354.22
11	BEALE ST/43+03.98	37.47, LT	3354.69
12	BEALE ST/42+76.10	34.50, LT	3355.02
13	BEALE ST/42+82.10	34.50, LT	3355.01

BACK OF CURB STAKING TABLE

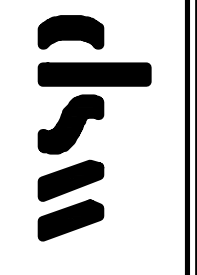
POINT #	ALIGNMENT/STATION	OFFSET	ELEVATION
14	BEALE ST/42+68.33	27.50, RT	3351.87
15	BEALE ST/42+71.91	23.92, RT	3352.02
16	BEALE ST/42+62.20	14.21, RT	3352.44
17	BEALE ST/42+62.90	12.50, RT	3352.51
18	BEALE ST/42+75.59	12.50, RT	3352.52
19	BEALE ST/42+76.10	12.50, RT	3352.52
20	BEALE ST/42+82.10	12.50, RT	3352.52
21	BEALE ST/42+82.59	12.50, RT	3352.52
22	BEALE ST/42+86.99	12.50, RT	3352.53
23	BEALE ST/42+95.05	17.51, RT	3352.33
24	BEALE ST/43+05.16	37.92, RT	3352.63
25	BEALE ST/42+82.10	34.50, RT	3352.46
26	BEALE ST/42+76.10	34.50, RT	3352.45

CURB TABLE

CURVE #	LENGTH	RADIUS	DELTA
C2	3.93	5.00	44°59'56"
C3	2.36	1.00	135°00'04"
C6	2.36	1.00	135°00'04"
C7	10.00	9.00	63°39'16"

REVISIONS:

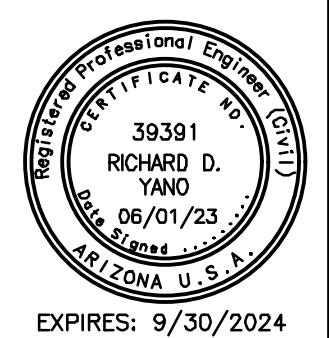
WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



MID-BLOCK CROSSING DETAIL

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

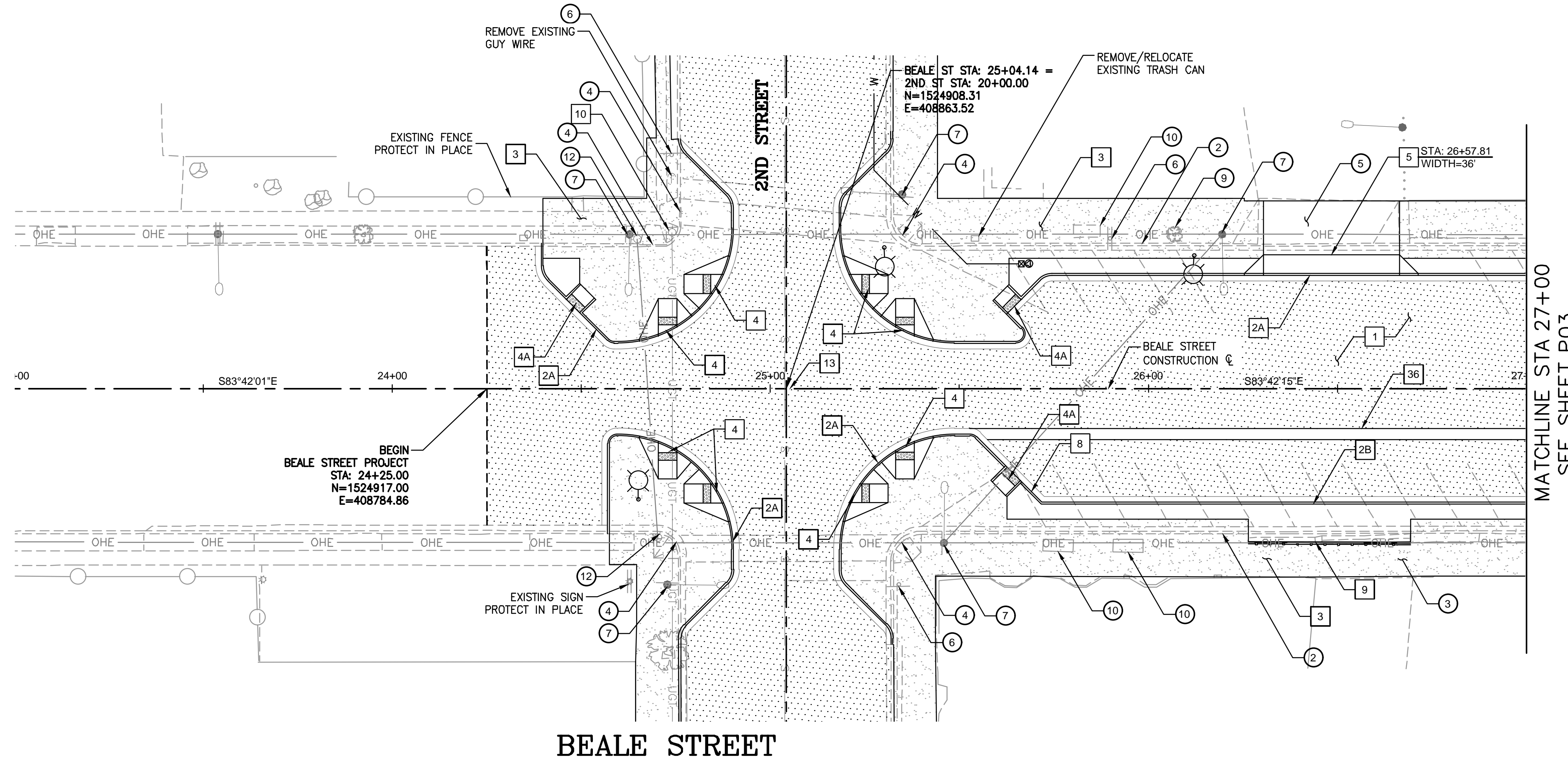


PROJECT NO.
3720205006

DRAWING NAME
DT12
SHEET NO. 15 of 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-DT10.dwg

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REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	2957 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	500 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	2636 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	5 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	492 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	3 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	5 EA
9	REMOVE EXISTING TREE	1 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	3 EA
12	REMOVE EXISTING STREET LIGHT	2 EA

CONSTRUCTION NOTES

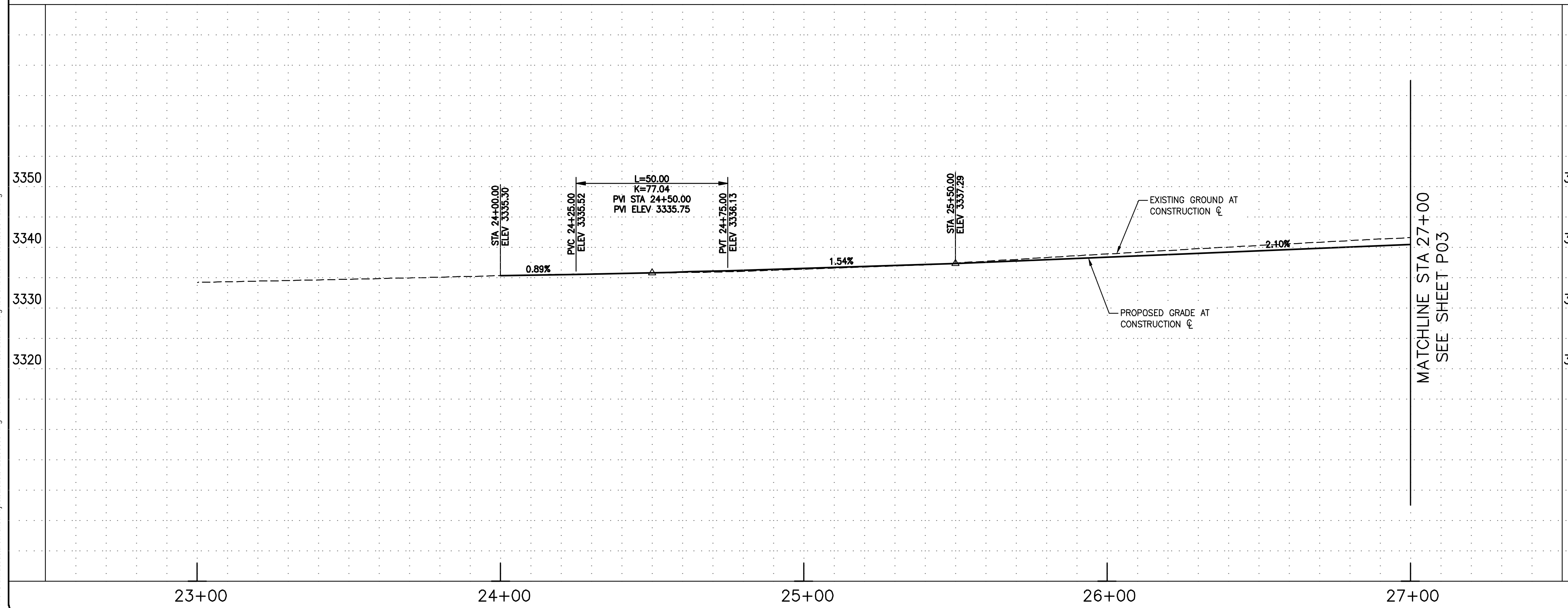
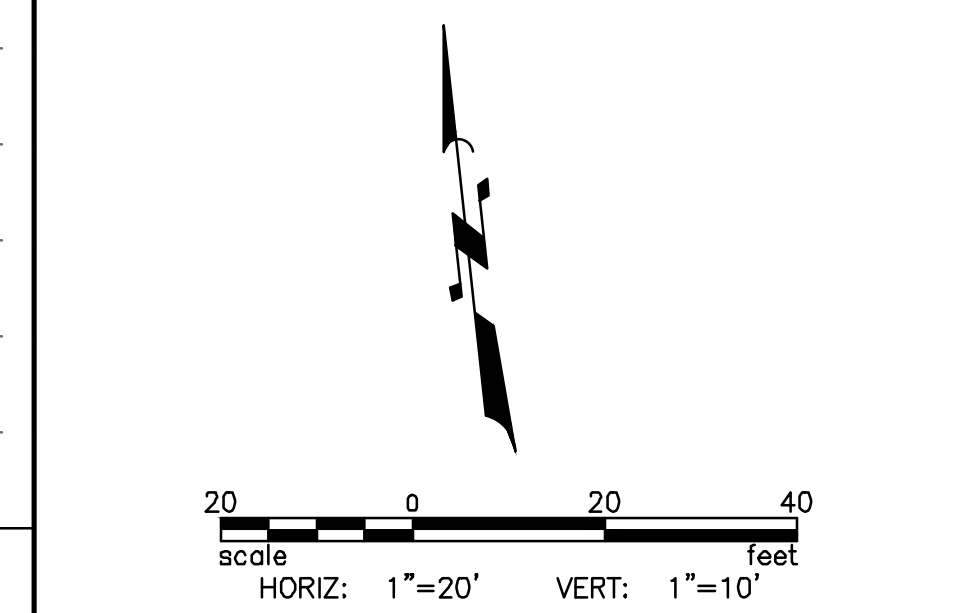
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1566 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	360 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	362 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	9152 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	3 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	812 SF
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	1 EA
9	CONSTRUCT 18" RETAINING WALL WITH SAFETY RAIL, MAG STD DTL 145	43 LF
10	REMOVE & RELOCATE EXISTING POWER POLE	1 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA
36	CONSTRUCT 3' VALLEY GUTTER, MAG STD DTL 240	153 LF
41	CONSTRUCT MOUNTABLE CURB, MAG DTL 220-2	90 LF

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
- EXACT LOCATIONS OF EXISTING UTILITIES SHOWN ARE UNKNOWN. LOCATIONS AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO CONSTRUCTION BY CALLING BLUESTAKE 1-800-STAKE-IT. AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

LEGEND



REVISIONS:

NO.	DESCRIPTION

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
 FAX: 602-733-6100

PLAN AND PROFILE
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

DESIGNED BY: HMR
 DRAWN BY: AA
 CHECKED BY: DY
 DATE: JUNE 2023



PROJECT NO.
3720205006

DRAWING NAME
P02

SHEET NO. 16 of 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006\Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P02.dwg

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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	4077 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	970 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	8536 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	6 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	156 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	5 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	8 EA
9	REMOVE EXISTING TREE	2 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	6 EA
12	REMOVE EXISTING STREET LIGHT	2 EA
14	REMOVE EXISTING ASPHALT DRIVEWAY	662 SF

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2284 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	914 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	361 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	13810 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	5 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	945 SF
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	3 EA
10	REMOVE & RELOCATE EXISTING POWER POLE	4 EA
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	1 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA
36	CONSTRUCT 3' VALLEY GUTTER, MAG STD DTL 240	314 LF

• SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
• SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

GENERAL CONSTRUCTION NOTES	
1.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
2.	THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
3.	EXACT LOCATIONS OF EXISTING UTILITIES SHOWN ARE UNKNOWN. LOCATIONS AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO CONSTRUCTION BY CALLING BLUESTAKE 1-800-STAKE-IT. AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4.	VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

LEGEND

ASPHALT PAVEMENT

SCALE: HORIZ: 1"=20' VERT: 1"=10'

39391 RICHARD D. YANO 06/01/23 3720205006 ARIZONA U.S.A.

EXPIRES: 9/30/2024

PROJECT NO. 3720205006

DRAWING NAME **P03**

SHEET NO. 17 OF 52

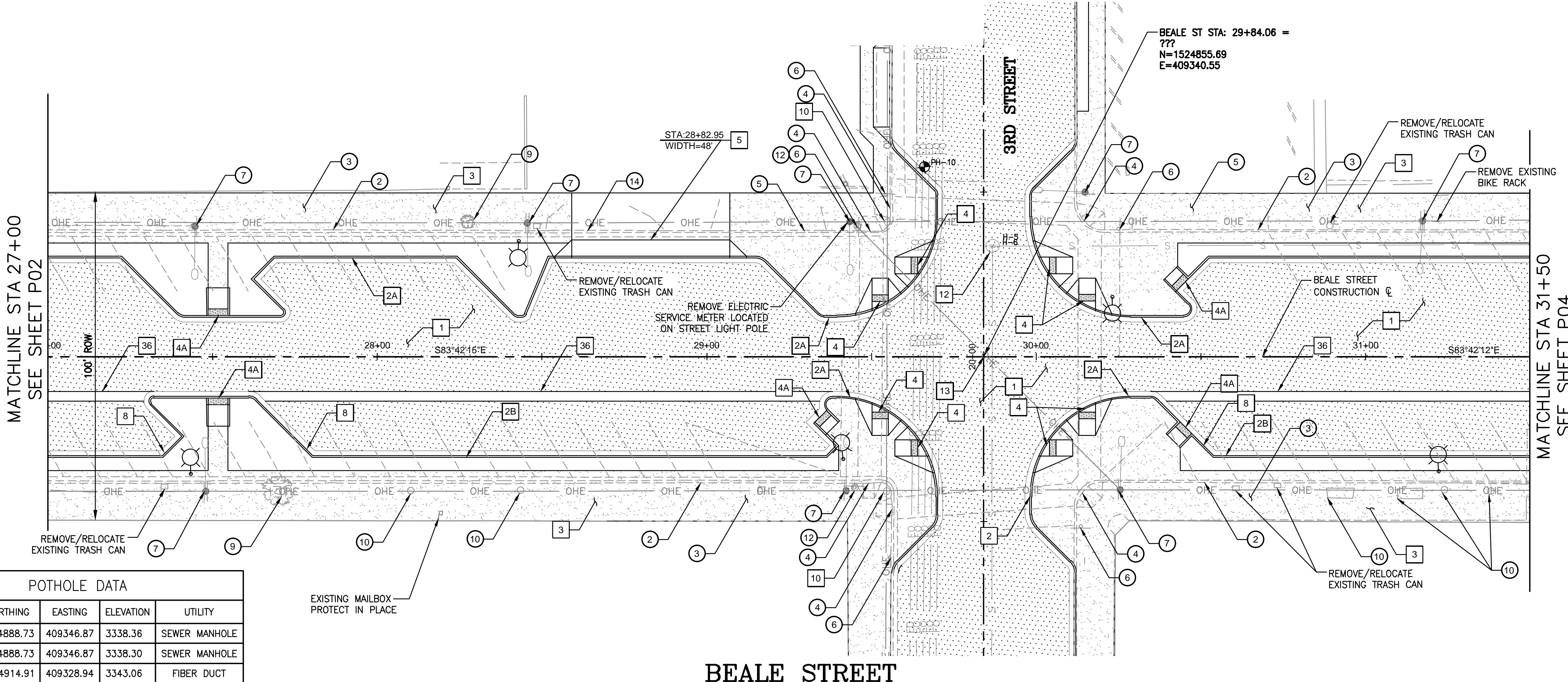
REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

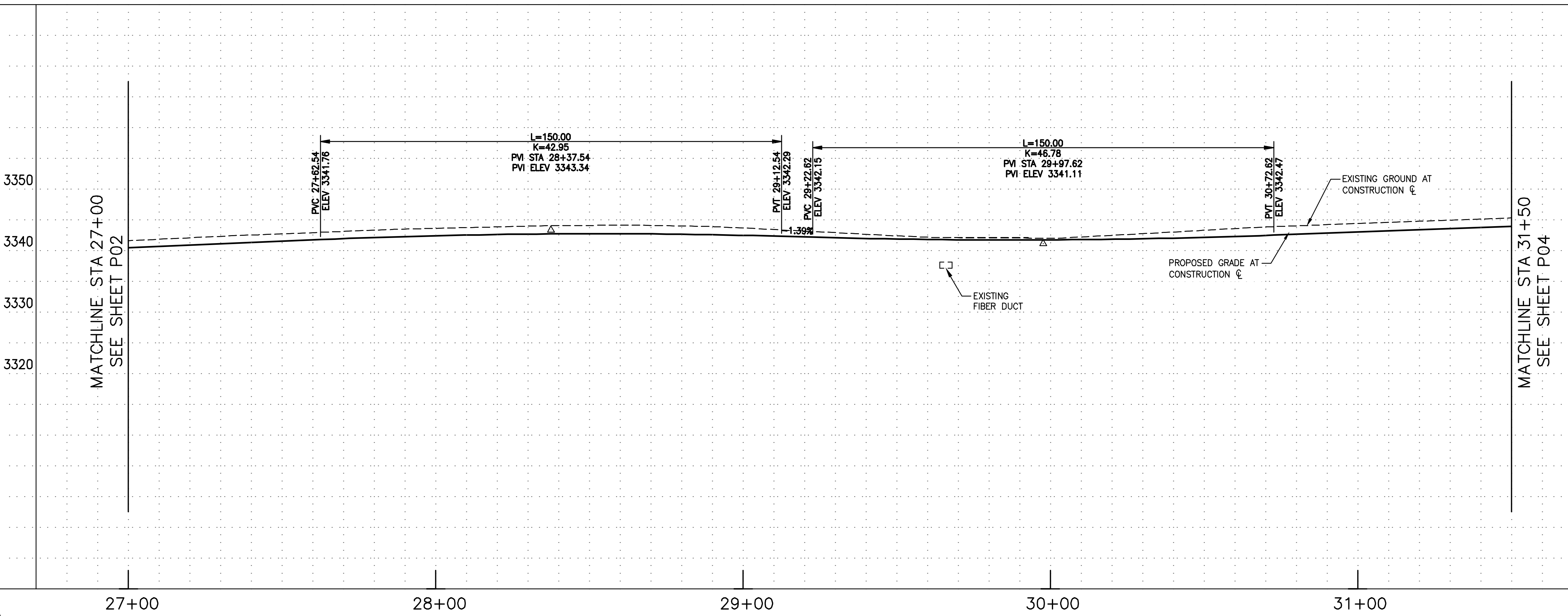
PLAN AND PROFILE

PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
5	1524888.73	409346.87	3338.36	SEWER MANHOLE
6	1524888.73	409346.87	3338.30	SEWER MANHOLE
10	1524914.91	409328.94	3343.06	FIBER DUCT

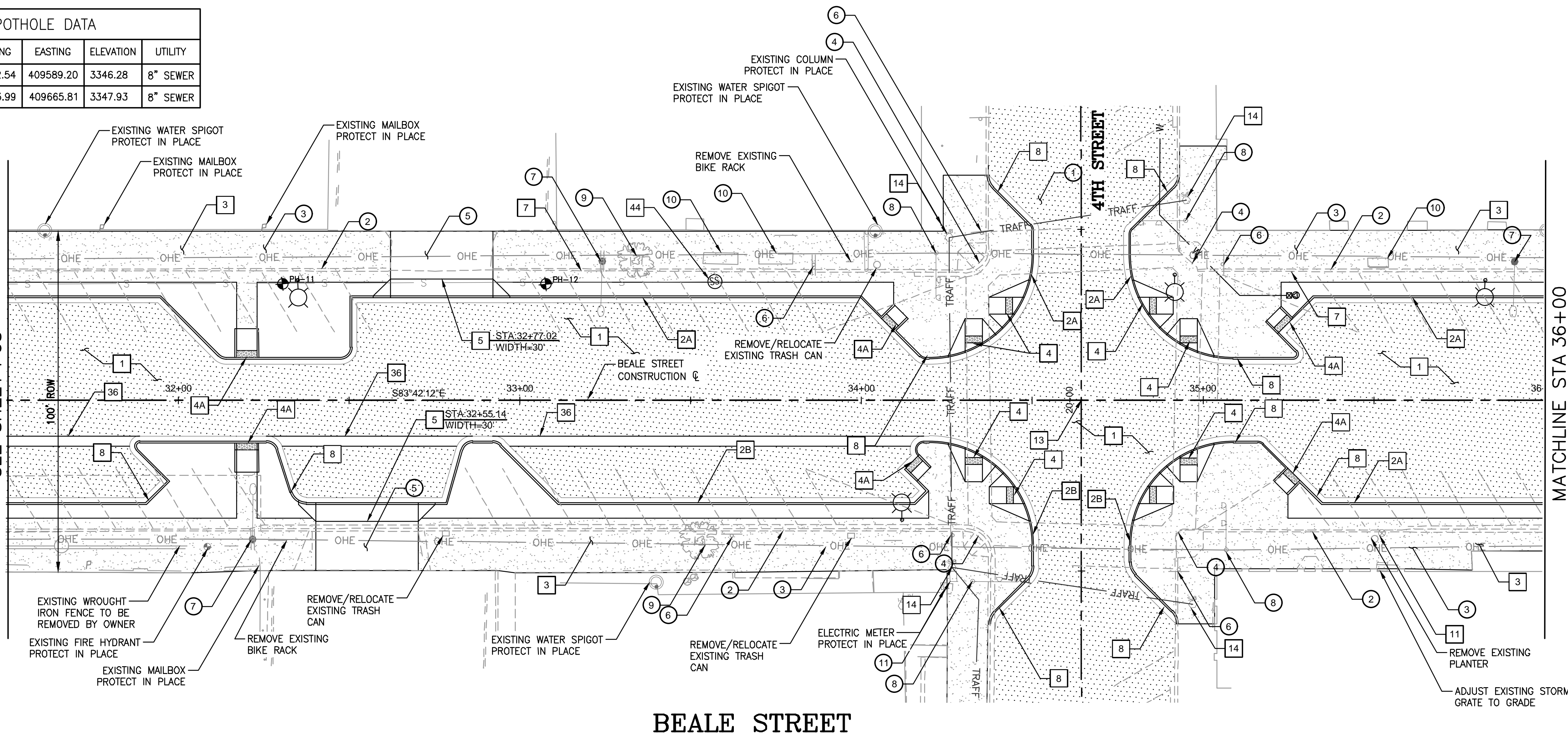


File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P03.dwg

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
11	1524862.54	409589.20	3346.28	8" SEWER
12	1524853.99	409665.81	3347.93	8" SEWER

MATCHLINE STA 31+50
SEE SHEET P03

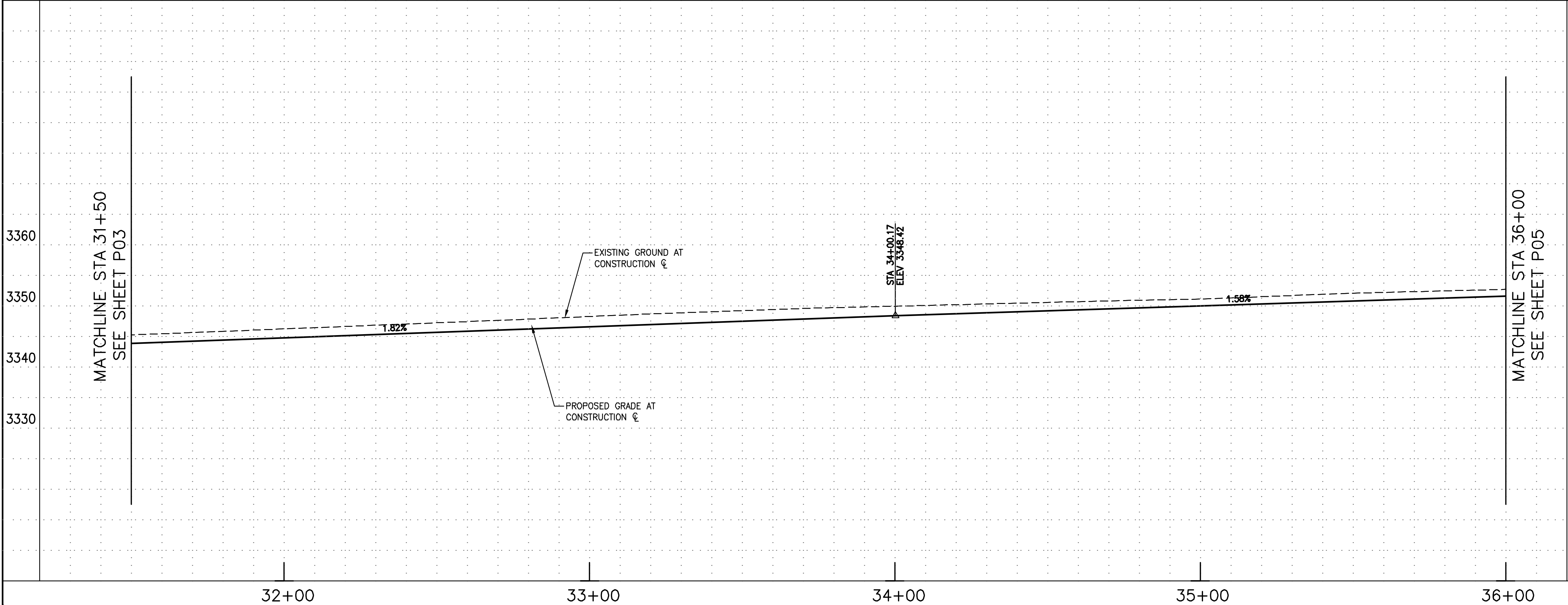
MATCHLINE STA 36+00
SEE SHEET P05



BEALE STREET

MATCHLINE STA 31+50
SEE SHEET P03

MATCHLINE STA 36+00
SEE SHEET P05



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	4139 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	886 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	9622 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	4 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	746 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	6 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	3 EA
8	REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL, POLE AND FOUNDATION	4 EA
9	REMOVE EXISTING TREE	2 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	3 EA
11	REMOVE AND SALVAGE EXISTING CABINET, EQUIPMENT AND FOUNDATION	1 EA

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2278 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	756 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	432 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	15156 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	6 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1202 SF
7	CONNECT NEW ROOF DRAIN PIPE AT BUILDING FACE. EXTEND NEW PIPE AND DAYLIGHT AT NEW FACE OF CURB. CONTRACTOR TO VERIFY EXISTING DOWNSPOUT AND OUTFALL PIPE AND MATCH EXISTING SIZE	3 EA
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	10 EA
11	ADJUST & CLEAN EXISTING WATER OR GAS VALVE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 270	1 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA
14	ADJUST EXISTING JUNCTION BOX TO FINISH GRADE	4 EA
36	CONSTRUCT 3' VALLEY GUTTER, MAG STD DTL 240	210 LF
44	CONSTRUCT SANITARY SEWER MANHOLE, MAG STD DTL 420-1	1 EA

- GENERAL CONSTRUCTION NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING UNDERGROUND STRUCTURES AND UTILITIES. CO-OPERATE WITH THE UTILITY COMPANIES IN PROTECTING ALL SERVICES.
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LEGEND

ASPHALT PAVEMENT

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

PLAN AND PROFILE

KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

EXPIRES: 9/30/2024

PROJECT NO.
3720205006

DRAWING NAME
P04

SHEET NO. 18 OF 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P04.dwg

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REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	4133 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	912 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	7966 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	4 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	590 SF
6	REMOVE EXISTING SIGN POST AND FOUNDATION	5 EA
7	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	6 EA
9	REMOVE EXISTING TREE	4 EA
10	REMOVE EXISTING LANDSCAPE PLANTER	2 EA
12	REMOVE EXISTING STREET LIGHT	2 EA

CONSTRUCTION NOTES

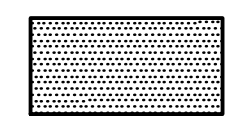
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2336 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	825 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	462 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	15058 SF
4	CONSTRUCT DIRECTIONAL CURB RAMP, MAG STD DTL 237-1	8 EA
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	5 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1594 SF
7	CONNECT NEW ROOF DRAIN PIPE AT BUILDING FACE. EXTEND NEW PIPE AND DAYLIGHT AT NEW FACE OF CURB. CONTRACTOR TO VERIFY EXISTING DOWNSPOUT AND OUTFALL PIPE AND MATCH EXISTING SIZE	4 EA
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	12 EA
13	REMOVE, CLEAN AND RESET SURVEY MARKER, MAG STD DTL 120-1, TYPE B	1 EA

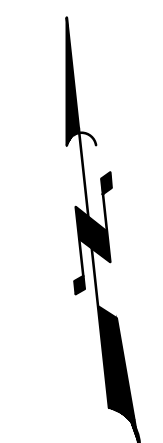
- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

GENERAL CONSTRUCTION NOTES

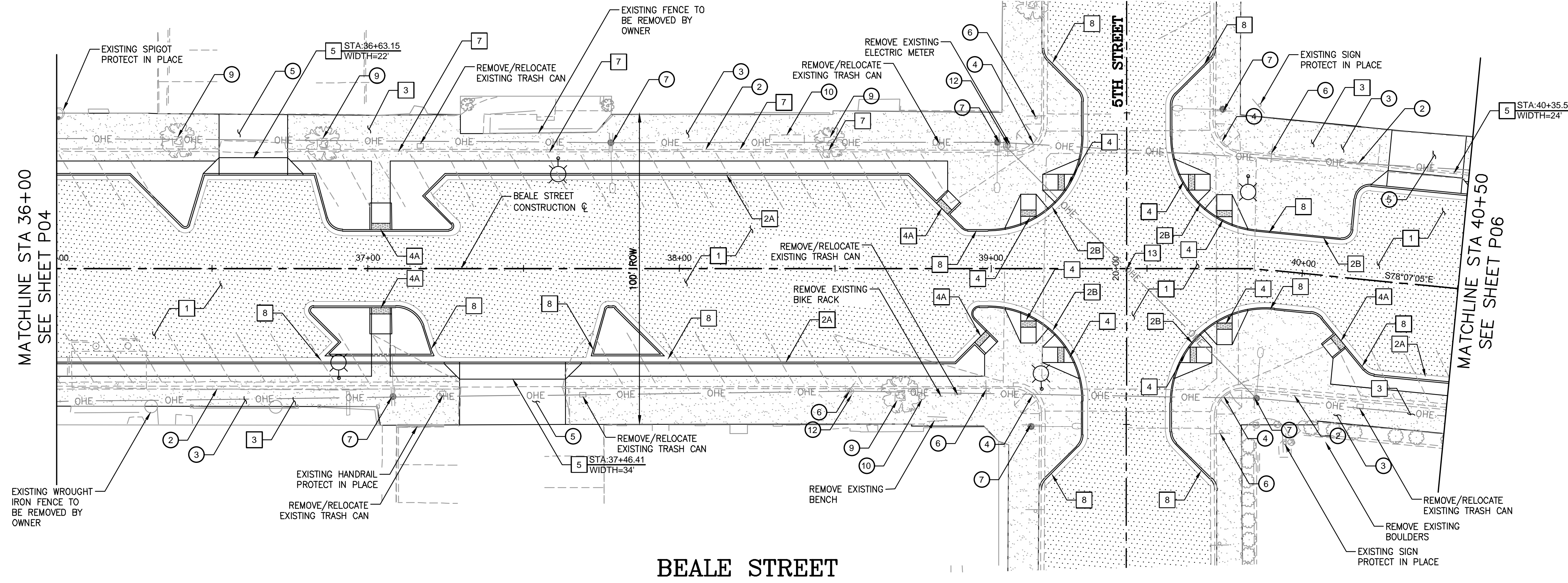
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LEGEND

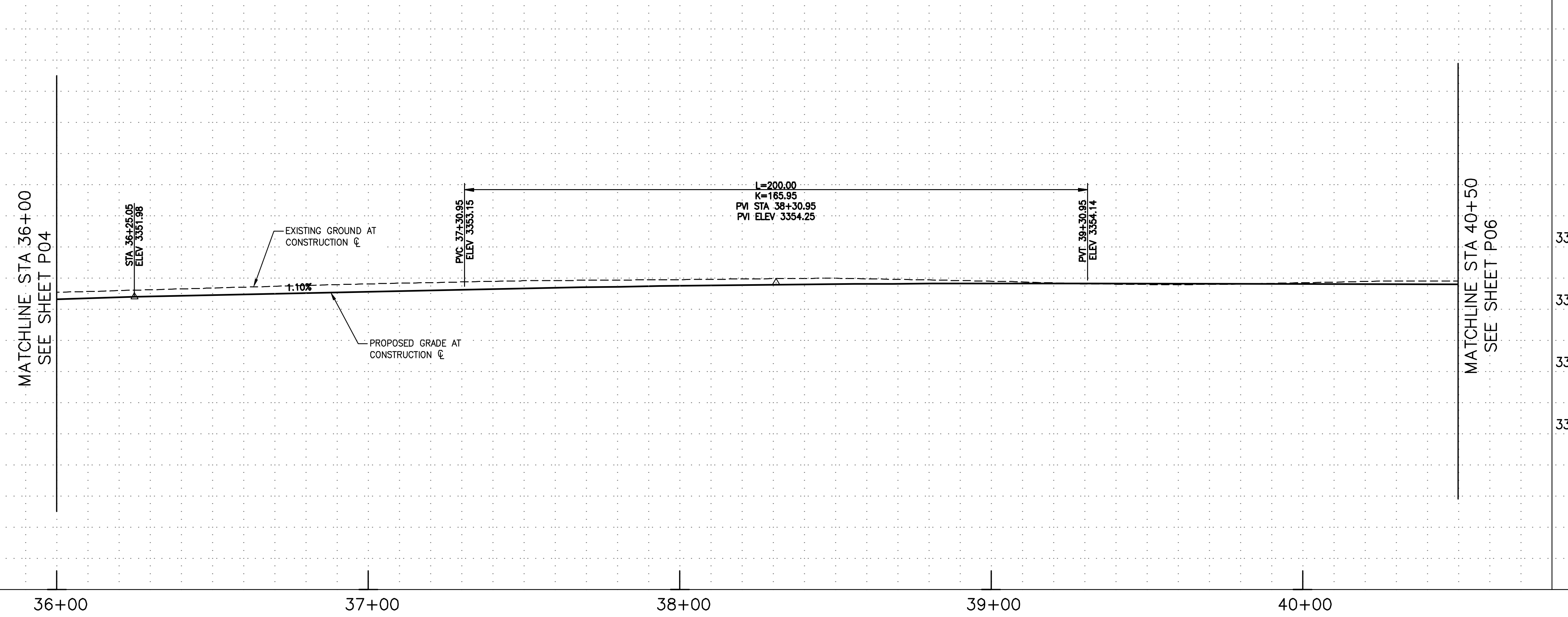
 ASPHALT PAVEMENT



20 0 20 40
scale
HORIZ: 1"=20' VERT: 1"=10'
feet



BEALE STREET



REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

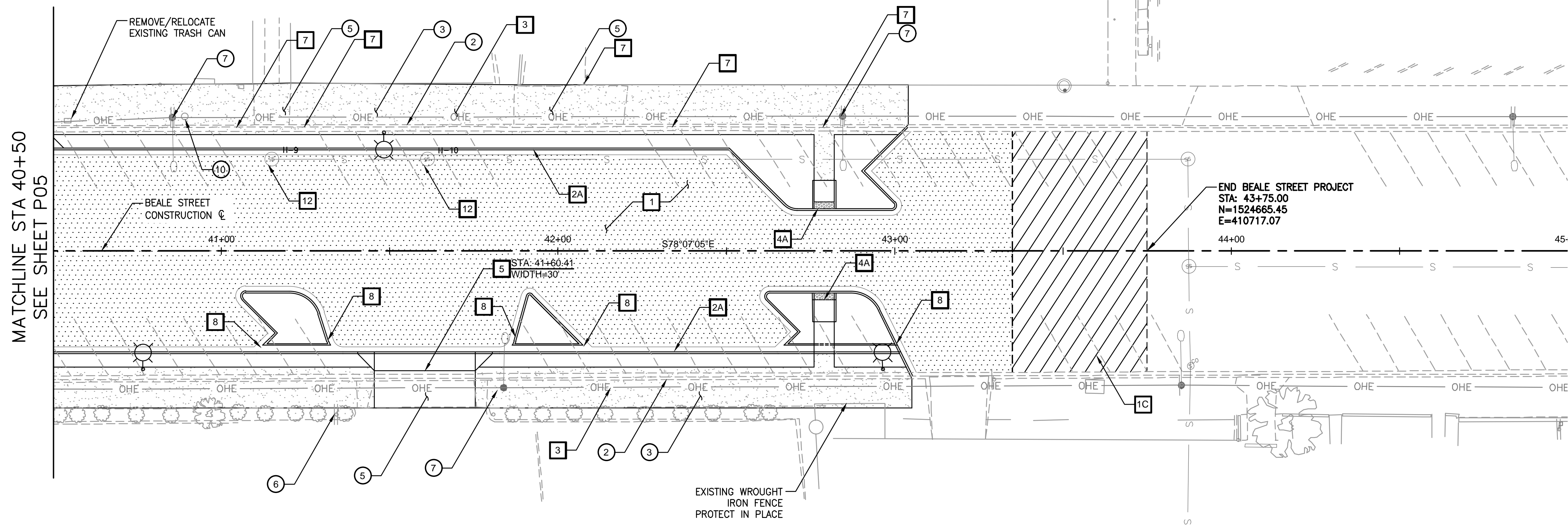
PLAN AND PROFILE
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

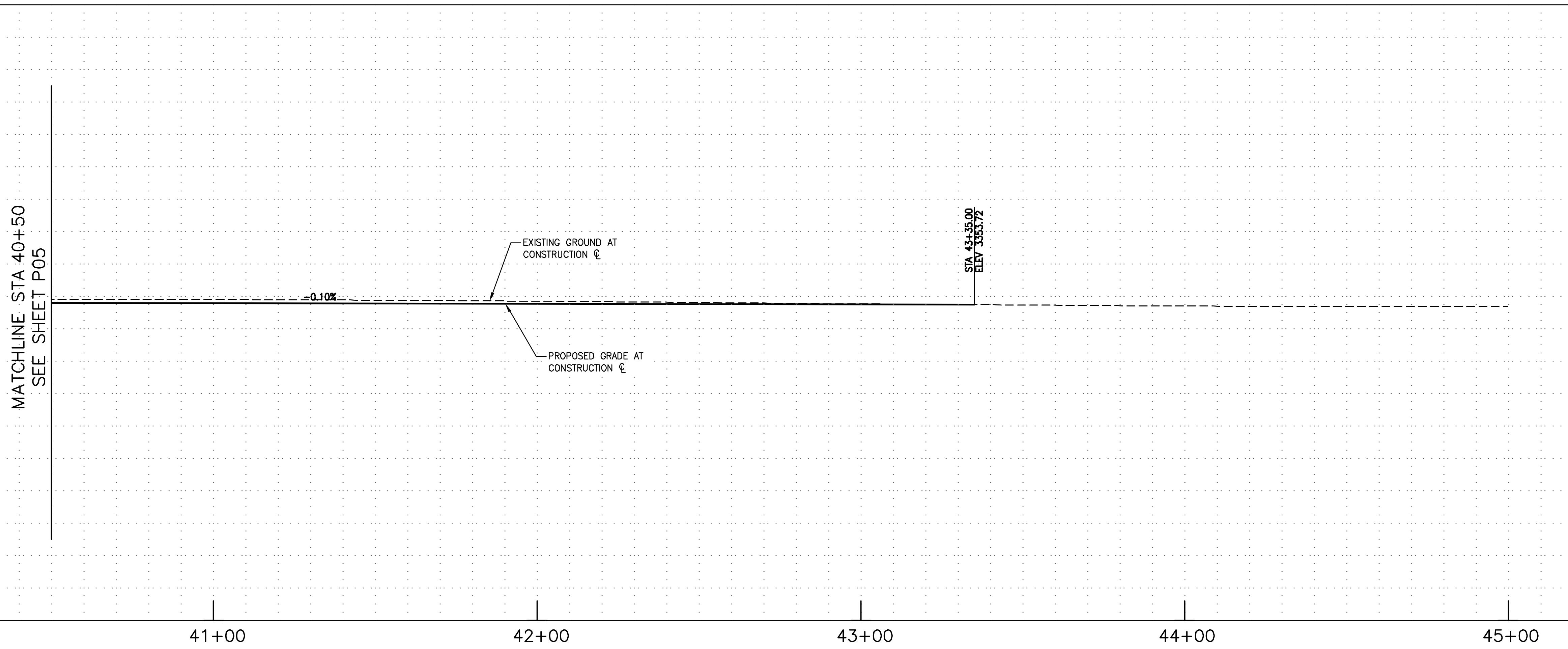


PROJECT NO.
3720205006
DRAWING NAME
P05
SHEET NO. 19 OF 52

Point Table				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
9	1524745.63	410468.14	3353.57	SEWER MANHOLE
10	1524736.08	410513.34	3353.31	SEWER MANHOLE



BEALE STREET



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
①	SAWCUT AND REMOVE EXISTING PAVEMENT	1301 SY
②	REMOVE EXISTING CONCRETE CURB & GUTTER	330 LF
③	REMOVE EXISTING CONCRETE SIDEWALK	5518 SF
⑤	REMOVE EXISTING CONCRETE DRIVEWAY	705 SF
⑥	REMOVE EXISTING SIGN POST AND FOUNDATION	1 EA
⑦	REMOVE EXISTING LIGHT POLE, FOUNDATION, AERIAL LINES AND APPURTENANCES	4 EA
⑩	REMOVE EXISTING LANDSCAPE PLANTER	1 EA

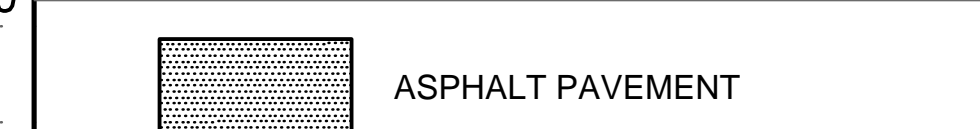
CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2601 SY
1C	MILL & OVERLAY 1.5" EXISTING PAVEMENT	317 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	1174 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	11020 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	2 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1606 SF
7	CONNECT NEW ROOF DRAIN PIPE AT BUILDING FACE. EXTEND NEW PIPE AND DAYLIGHT AT NEW FACE OF CURB. CONTRACTOR TO VERIFY EXISTING DOWNSPOUT AND OUTFALL PIPE AND MATCH EXISTING SIZE	9 EA
8	CONSTRUCT 2' CURB CUT PER DETAIL DWG DT01	6 EA
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	2 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

LEGEND

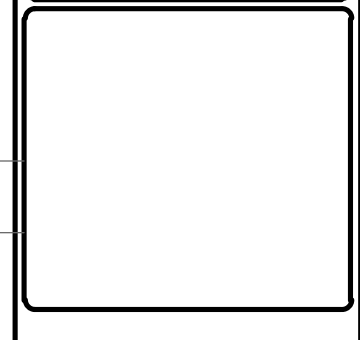


REVISIONS:	

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-233-6000
 FAX: 602-733-6100

PLAN AND PROFILE
KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

DESIGNED BY: HMR
 DRAWN BY: AA
 CHECKED BY: DY
 DATE: JUNE 2023



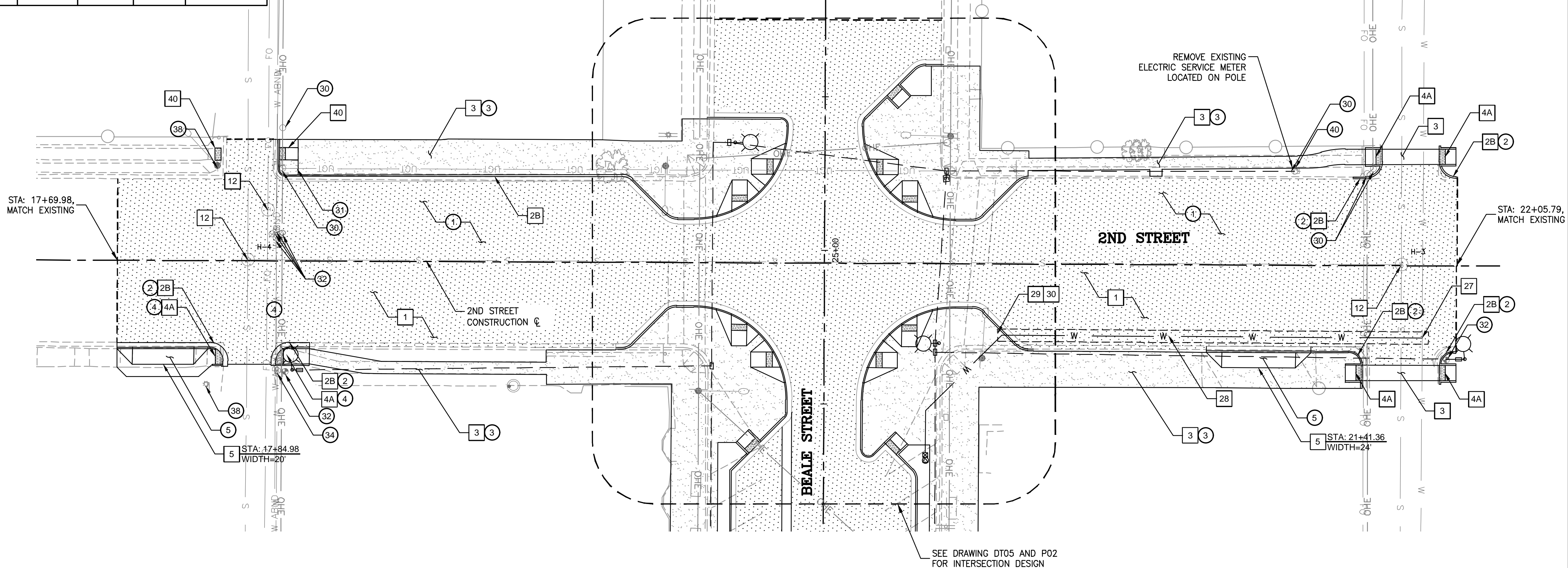
PROJECT NO.
3720205006

DRAWING NAME
P06

SHEET NO. 20 of 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006\Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P06.dwg

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
3	1525094.90	408883.76	3336.480	SEWER MANHOLE
4	1524721.87	408842.66	3330.610	SEWER MANHOLE



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1747 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	132 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	920 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	2 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	101 SF
30	EXISTING POWER POLE; PROTECT IN PLACE	NPI
31	EXISTING GUY WIRE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
35	EXISTING WATER METER; PROTECT IN PLACE	NPI
38	EXISTING STREET LIGHT; PROTECT IN PLACE	NPI
40	EXISTING ELECTRIC METER; PROTECT IN PLACE	NPI

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	2078 SY
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	268 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	3269 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	6 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	269 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	3 EA
27	CONNECT 1" COPPER SERVICE TO EXISTING WATER MAIN; SERVICE SADDLE WITH I.P. THREADS	1 EA
28	INSTALL 1" COPPER WATER LINE	140 LF
29	INSTALL 1" IRRIGATION WATER METER	1 EA
30	INSTALL IRRIGATION CONTROLLER	1 EA
40	INSTALL DETECTABLE WARNING, MAG STD DTL 234	2 EA

- GENERAL CONSTRUCTION NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION JANUARY 2022 EDITION AND THE CITY OF KINGMAN STANDARD DETAILS AND SPECIFICATIONS.
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 - VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

LEGEND

ASPHALT PAVEMENT

3720205006

PROJECT NO. 3720205006

DRAWING NAME **P09**

SHEET NO. 21 of 52

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-233-6000
FAX: 602-733-6100

2ND STREET PLAN AND PROFILE

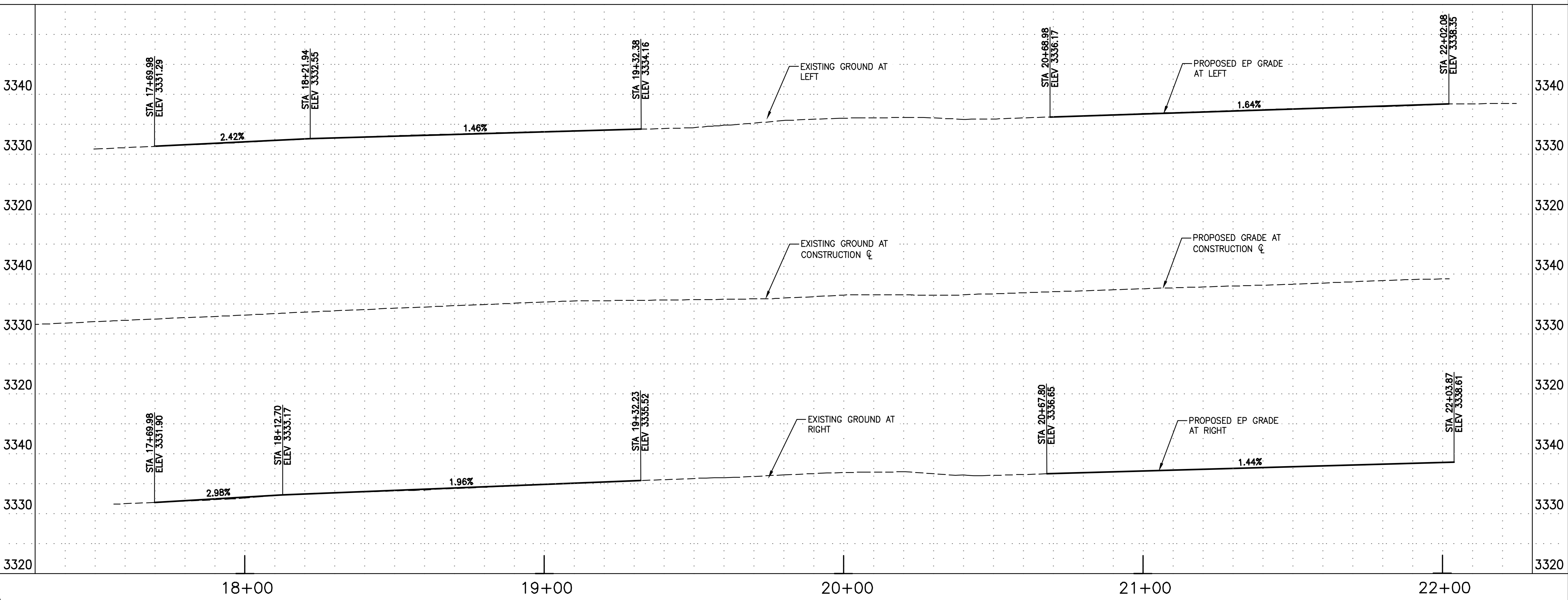
KINGMAN DOWNTOWN INFRASTRUCTURE

BEALE ST - 1ST ST TO 6TH ST

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

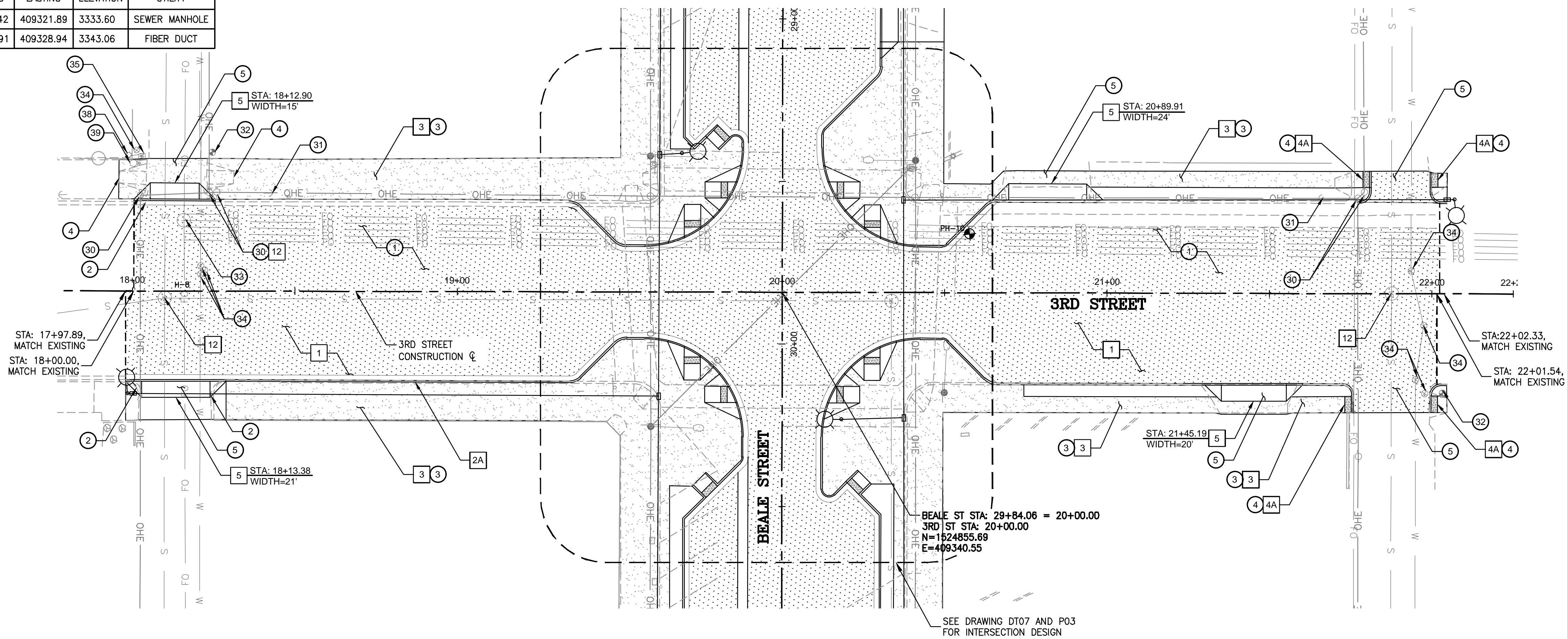
EXPIRES: 9/30/2024

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
39391
RICHARD D. YANO
06/01/23
ARIZONA U.S.A.



File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P09.dwg

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
8	1524666.42	409321.89	3333.60	SEWER MANHOLE
10	1524914.91	409328.94	3343.06	FIBER DUCT



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1552 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	85 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	4614 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	8 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	510 SF
30	EXISTING UTILITY POLE; PROTECT IN PLACE	NPI
31	EXISTING GUY WIRE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
35	EXISTING WATER METER; PROTECT IN PLACE	NPI
38	EXISTING STREET LIGHT; PROTECT IN PLACE	NPI
39	EXISTING JUNCTION BOX; PROTECT IN PLACE	NPI

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1758 SY
2A	CONSTRUCT 8" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	135 LF
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	258 LF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	4265 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	4 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	740 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	3 EA

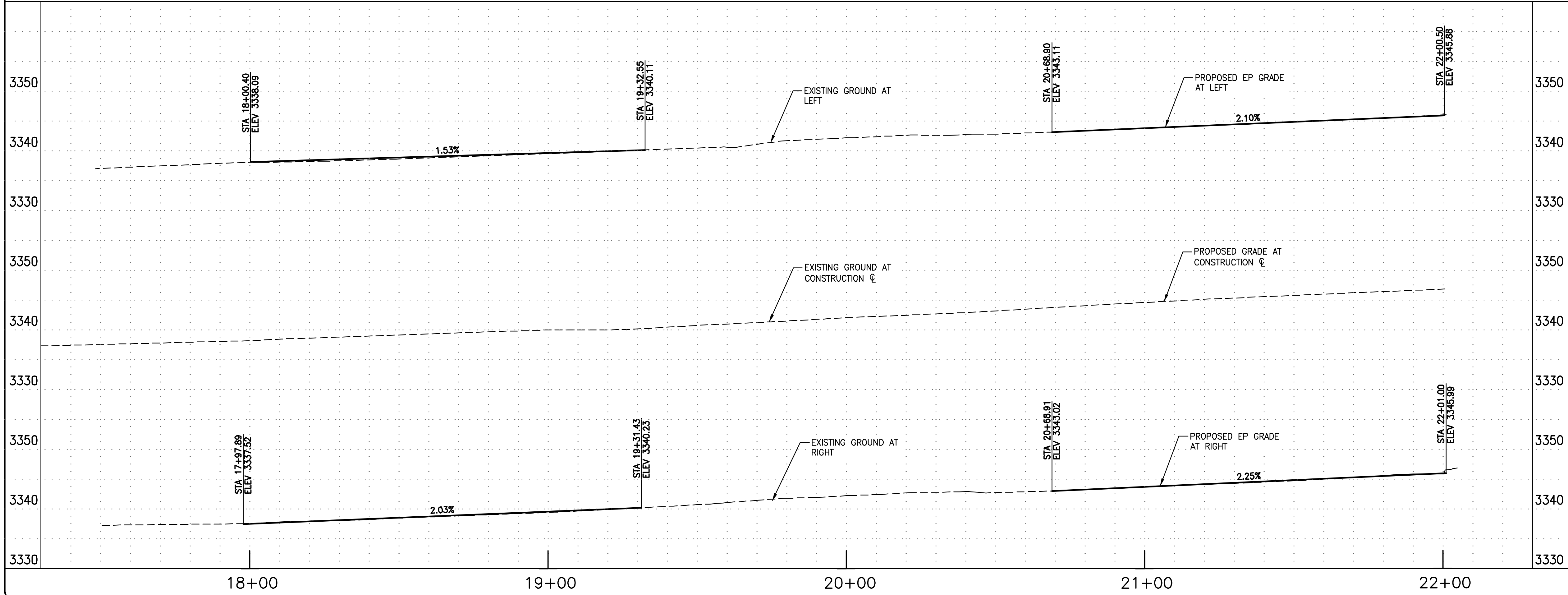
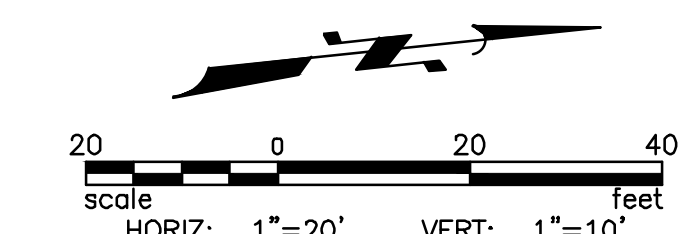
- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

GENERAL CONSTRUCTION NOTES

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LEGEND

ASPHALT PAVEMENT

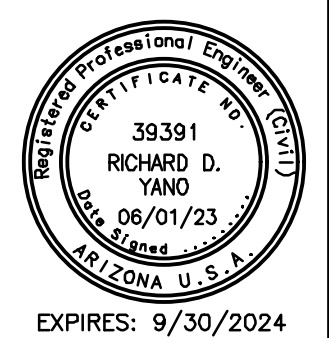


REVISIONS:	

WSP USA Environment & Infrastructure, Inc.
 4600 E. WASHINGTON STREET, SUITE 600
 PHOENIX, ARIZONA 85034
 PHONE: 602-733-6000
 FAX: 602-733-6100

3RD STREET PLAN AND PROFILE
 KINGMAN DOWNTOWN INFRASTRUCTURE
 BEALE ST - 1ST ST TO 6TH ST
 KINGMAN, ARIZONA

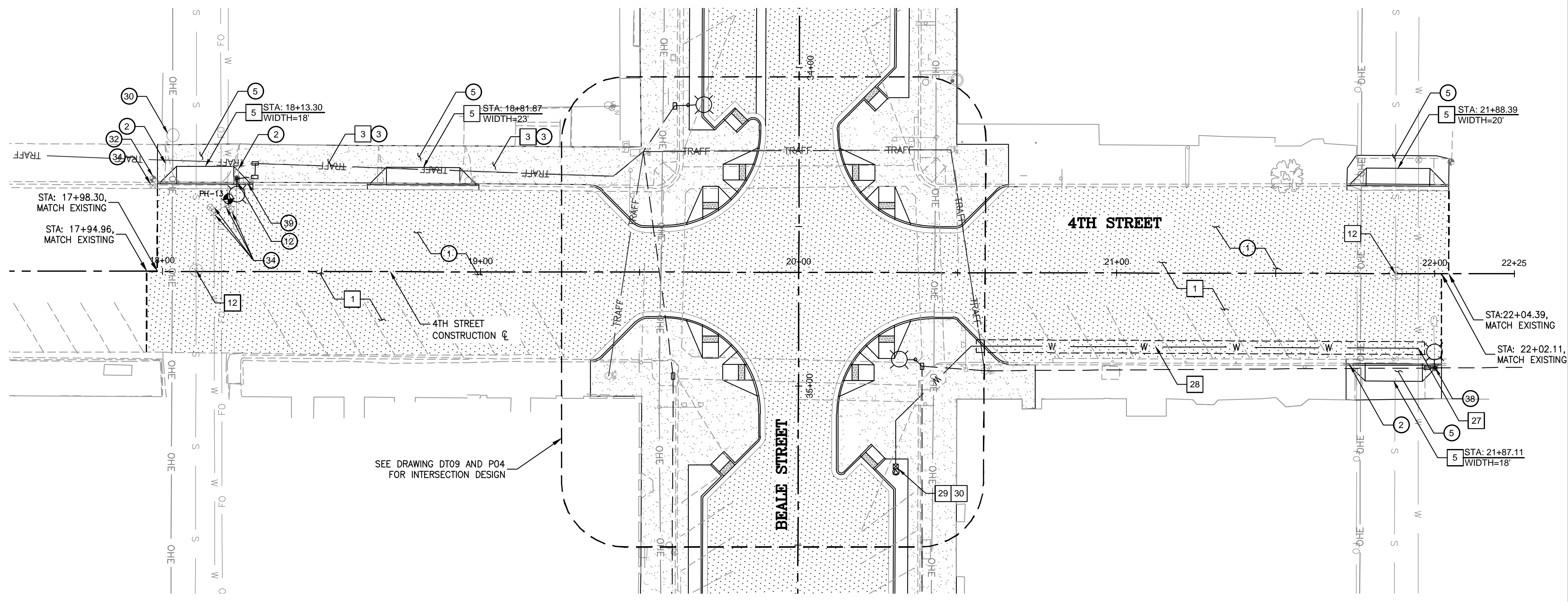
DESIGNED BY: HMR
 DRAWN BY: AA
 CHECKED BY: DY
 DATE: JUNE 2023



PROJECT NO.
372025006
 DRAWING NAME
P10
 SHEET NO. 22 OF 52

File: C:\Infrastructure\Trans\Projects\2020\07\20205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P10.dwg

POTHOLE DATA				
POTHOLE #	NORTHING	EASTING	ELEVATION	UTILITY
13	1524627.09	409775.84	3343.61	10" WATER



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REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1653 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	130 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	2341 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	2 EA
12	REMOVE EXISTING STREET LIGHT	1 EA
30	EXISTING UTILITY POLE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
38	EXISTING STREET LIGHT; PROTECT IN PLACE	NPI
39	EXISTING JUNCTION BOX; PROTECT IN PLACE	NPI

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1844 SY
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	1360 SF
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	917 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	2 EA
27	CONNECT 1" COPPER SERVICE TO EXISTING WATER MAIN; SERVICE SADDLE WITH I.P. THREADS	1 EA
28	INSTALL 1" COPPER WATER LINE	140 LF
29	INSTALL 1" IRRIGATION WATER METER	1 EA
30	INSTALL IRRIGATION CONTROLLER	1 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

GENERAL CONSTRUCTION NOTES

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LEGEND



39391
RICHARD D. YANO
06/01/23
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA U.S.A.

EXPIRES: 9/30/2024

PROJECT NO.
3720205006

DRAWING NAME
P11

SHEET NO. 23 OF 52

scale
HORIZ: 1"=20' VERT: 1"=10'

NO.	REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-233-6000
FAX: 602-733-6100

4TH STREET PLAN AND PROFILE
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

File: C:\Infrastructure\Trans\Projects\2020\20205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P11.dwg

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REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING PAVEMENT	1665 SY
2	REMOVE EXISTING CONCRETE CURB & GUTTER	153 LF
3	REMOVE EXISTING CONCRETE SIDEWALK	4047 SF
4	REMOVE EXISTING PEDESTRIAN RAMP	8 EA
5	REMOVE EXISTING CONCRETE DRIVEWAY	101 SF
30	EXISTING UTILITY POLE; PROTECT IN PLACE	NPI
32	EXISTING FIRE HYDRANT; PROTECT IN PLACE	NPI
33	EXISTING MANHOLE; PROTECT IN PLACE	NPI
34	EXISTING VALVE; PROTECT IN PLACE	NPI
35	EXISTING WATER METER; PROTECT IN PLACE	NPI
36	EXISTING IRRIGATION VALVE; PROTECT IN PLACE	NPI
37	EXISTING IRRIG. JUNCTION BOX; PROTECT IN PLACE	NPI

CONSTRUCTION NOTES

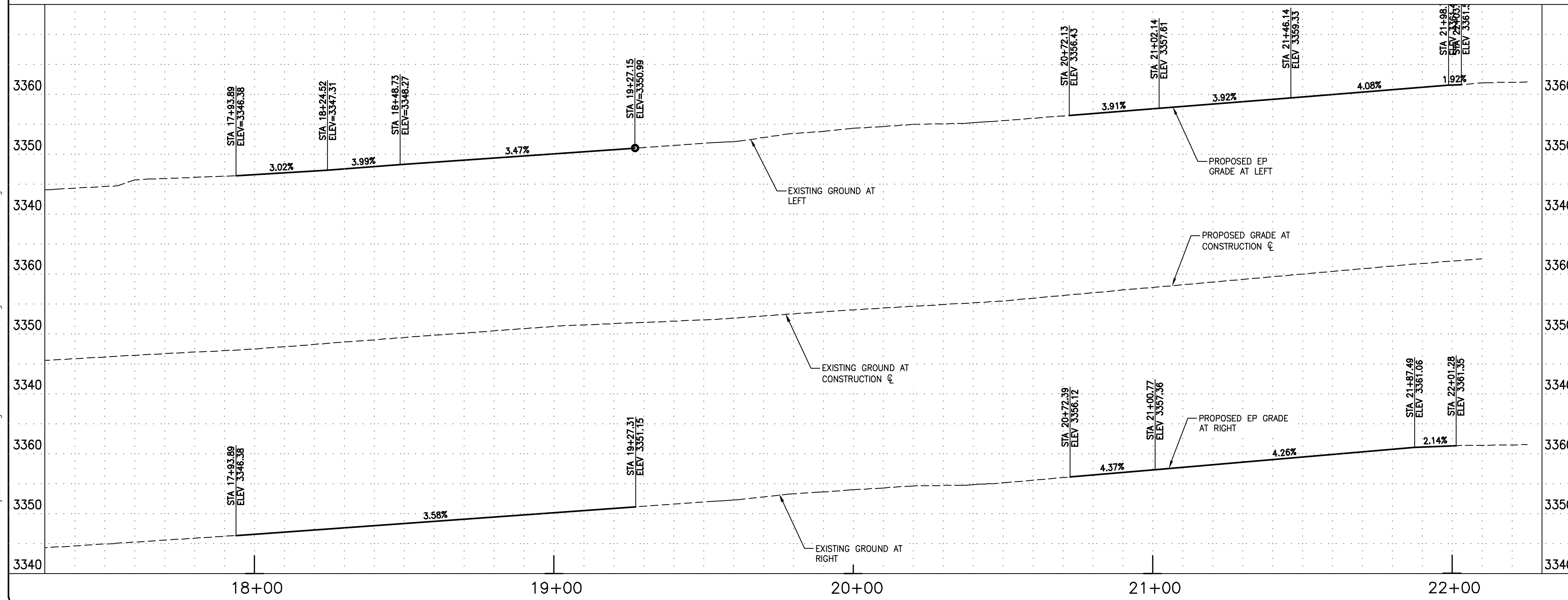
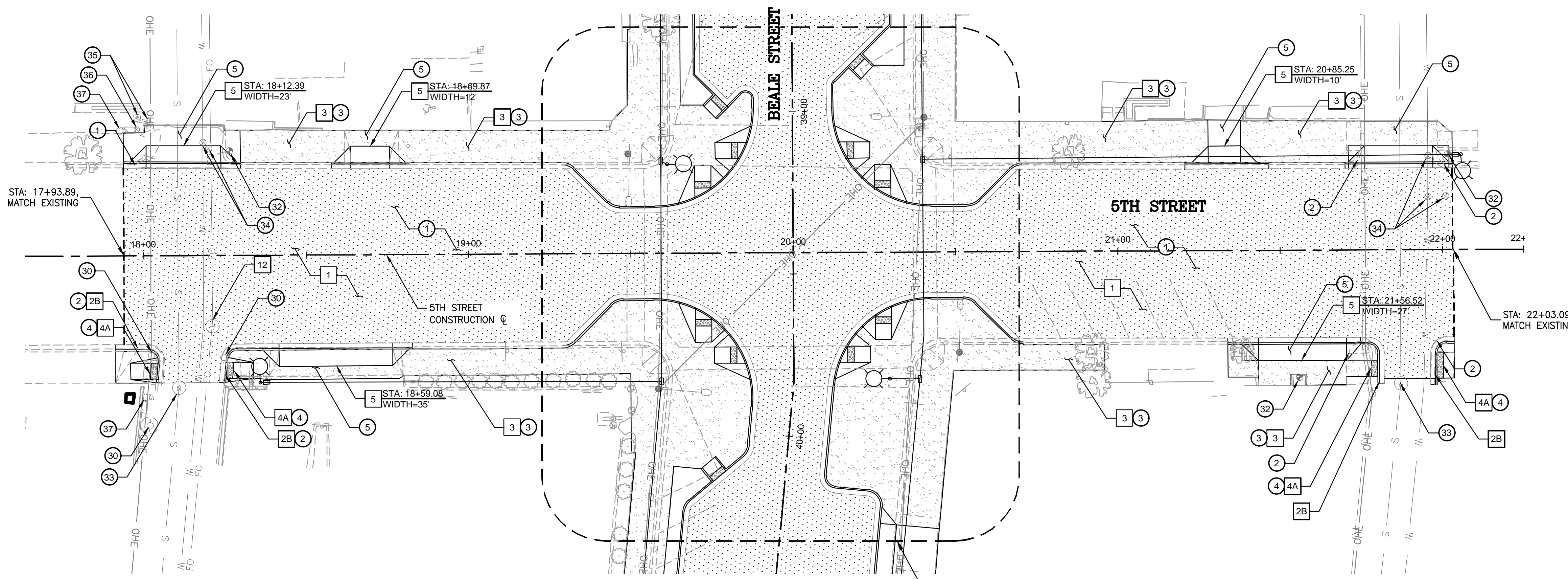
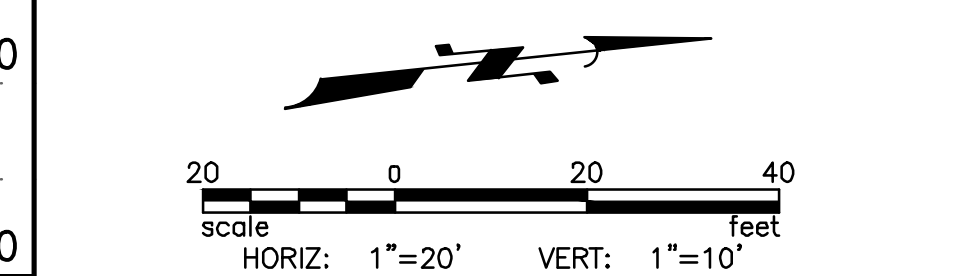
NO.	DESCRIPTION	QTY
1	CONSTRUCT ASPHALT PAVEMENT, STRUCTURAL SECTION NO. 1	1857 SY
2B	CONSTRUCT 6" CONCRETE VERTICAL CURB & GUTTER, MAG STD DTL 220-1, TYPE A	475 SF
3	CONSTRUCT CONCRETE SIDEWALK, MAG STD DTL 230	2893 SF
4A	CONSTRUCT DIRECTIONAL CURB RAMP, PER MID-BLOCK AND ADA STALL DTL 01A	4 EA
5	CONSTRUCT CONCRETE DRIVEWAY, MAG STD DTL 250-1	1298 SF
12	ADJUST & CLEAN EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE, MAG STD DTL 422	1 EA

- SEE LIGHTING SHEETS FOR ADDITIONAL INFORMATION
- SEE PAVEMENT MARKINGS & SIGNING FOR ADDITIONAL INFORMATION

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LEGEND



REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

5TH STREET PLAN AND PROFILE
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

PROJECT:

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

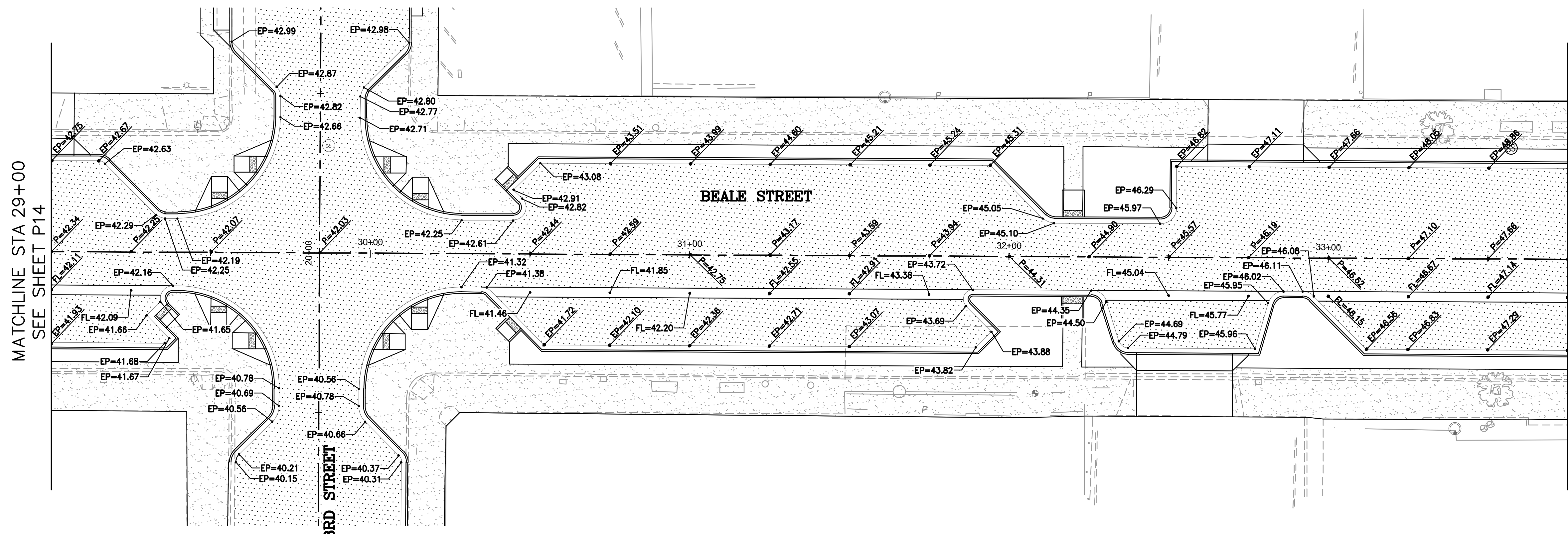


EXPIRES: 9/30/2024
PROJECT NO.
3720205006

DRAWING NAME
P12
SHEET NO. 24 of 52

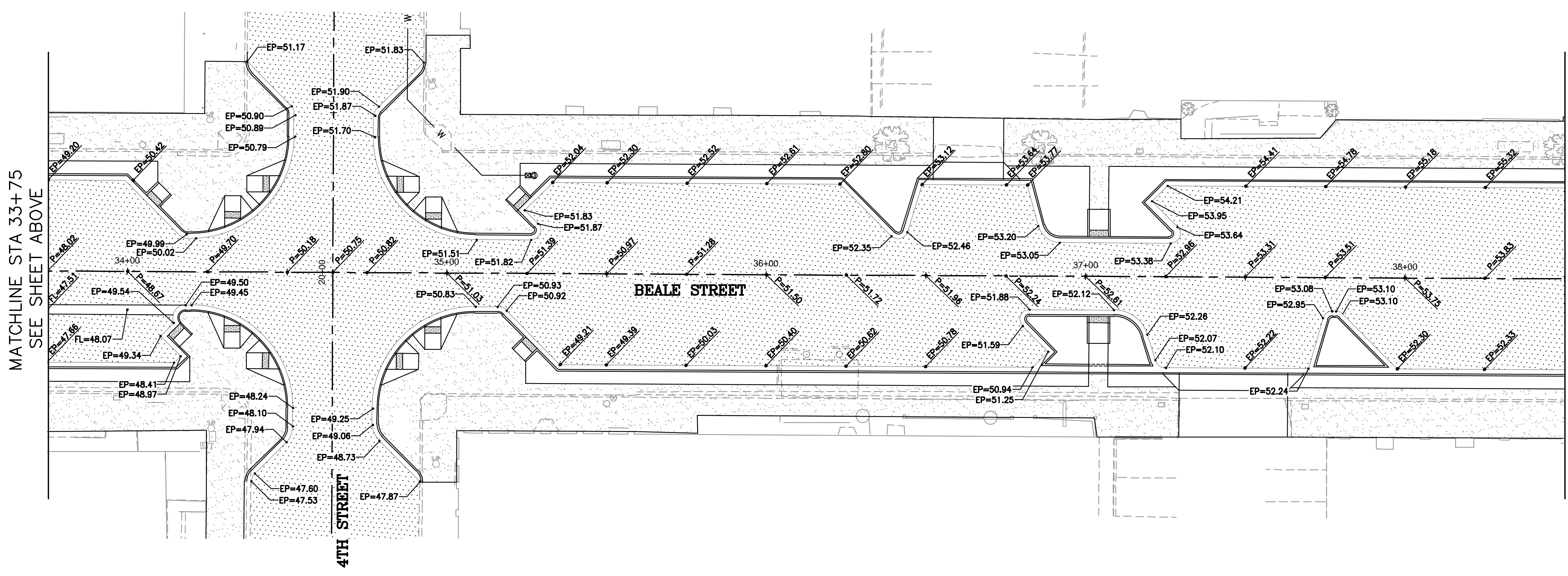
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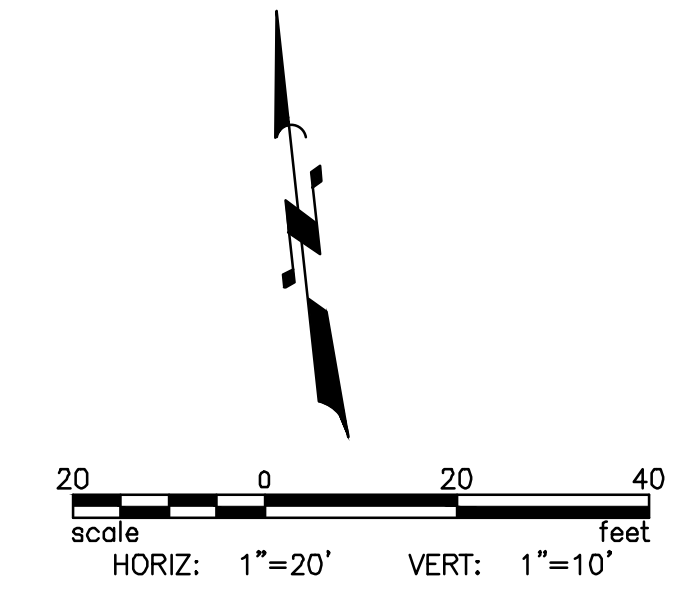
MATCHLINE STA 29+00
SEE SHEET P14

MATCHLINE STA 33+75
SEE SHEET BELOW



MATCHLINE STA 33+75
SEE SHEET ABOVE

MATCHLINE STA 38+50
SEE SHEET P16

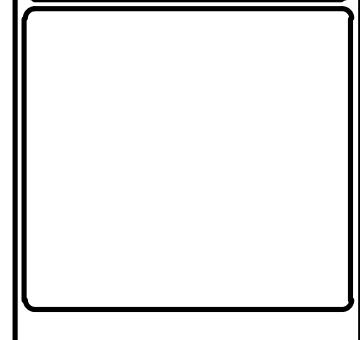


REVISIONS:

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4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

BEALE STREET GRADES
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

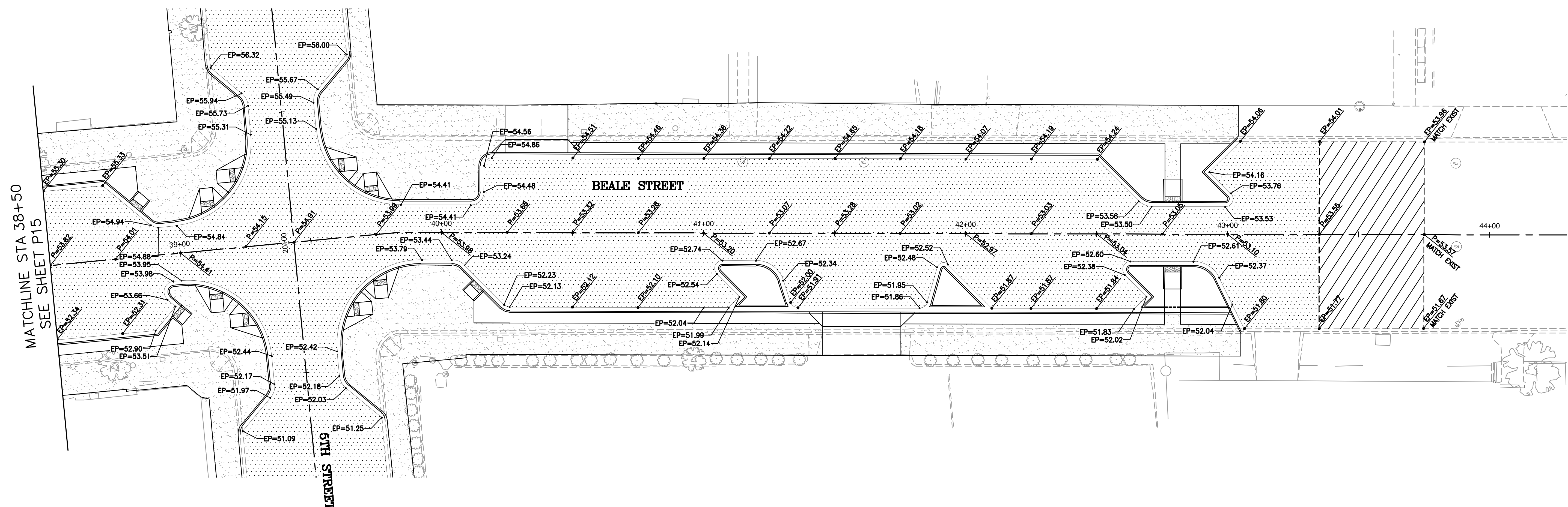


EXPIRES: 9/30/2024

PROJECT NO.
3720205006

DRAWING NAME
P15
SHEET NO. 26 OF 52

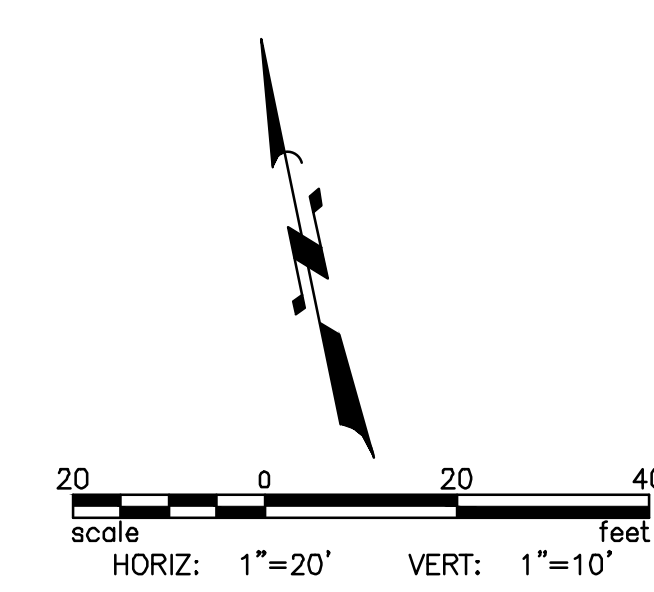
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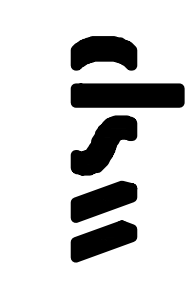
6TH STREET

BEALE STREET



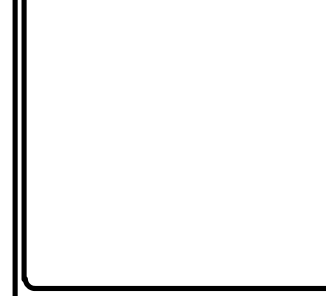
REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



PROJECT: KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

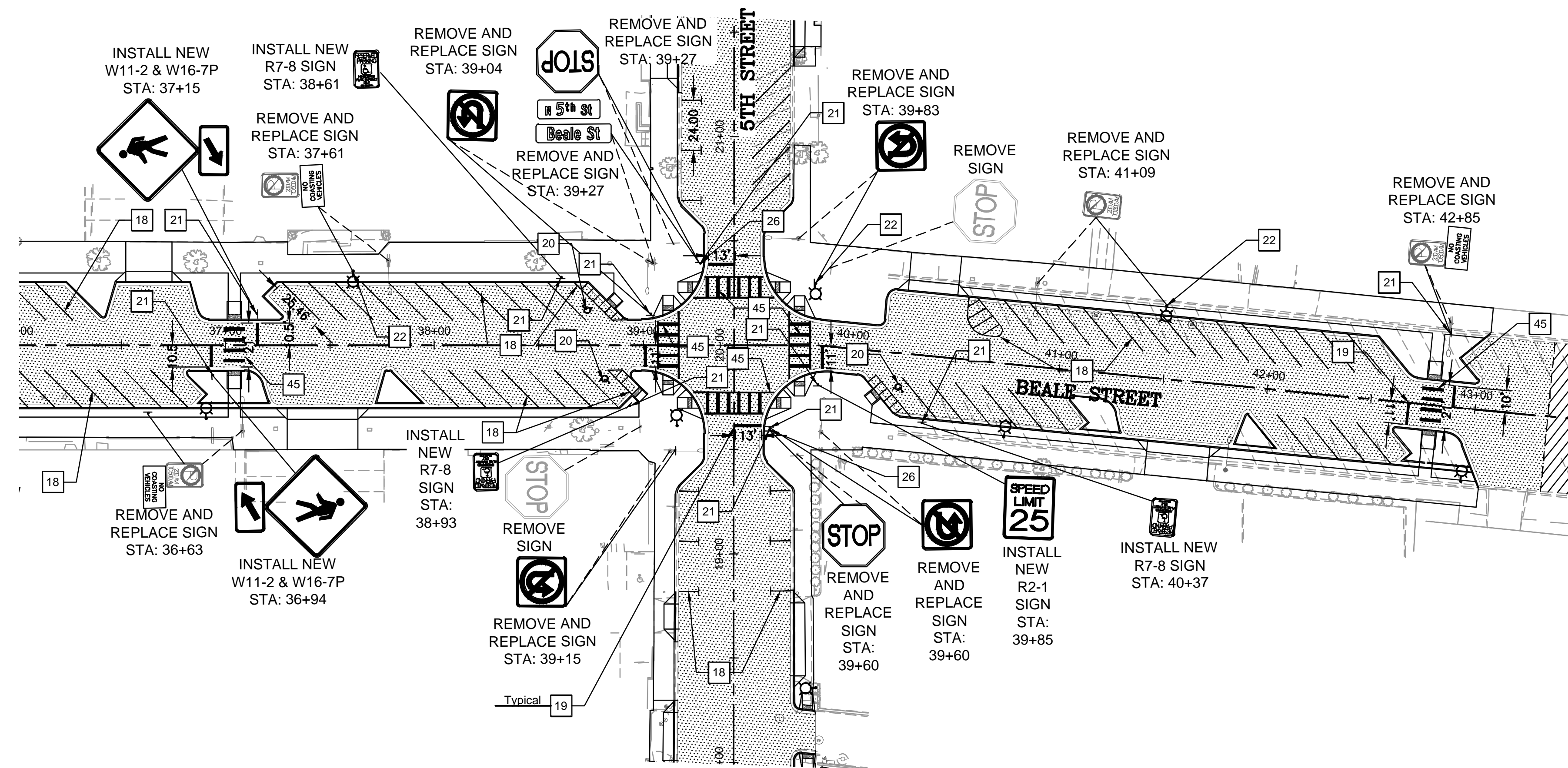


PROJECT NO.
3720205006

DRAWING NAME
P16
SHEET NO. 27 of 52

File: C:\Infrastructure\Trans\Projects\2020\3720205006 Kingman Downtown Infrastructure Design\05-CADD\09-Sheets\5006-P16.dwg

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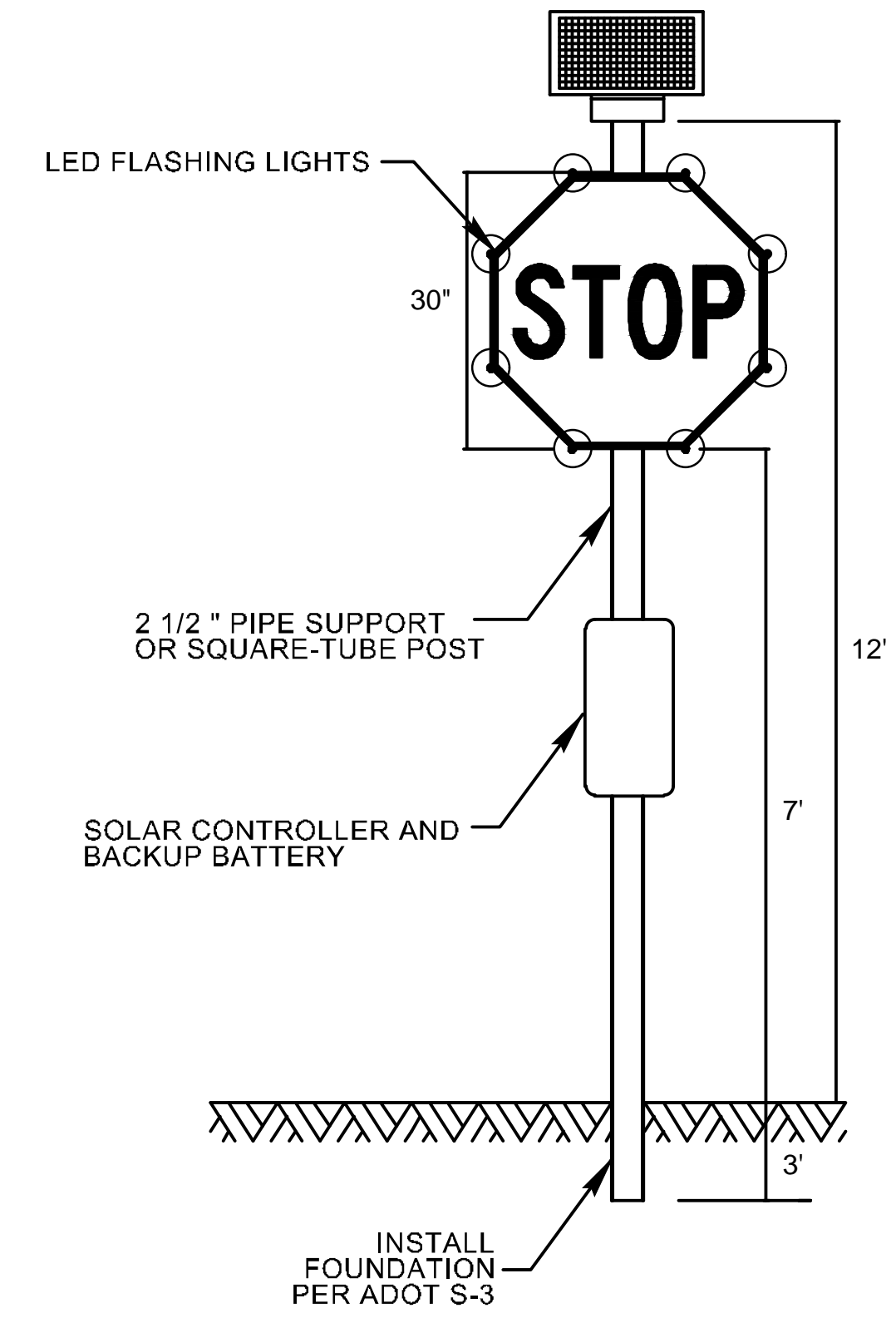
CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY
18	INSTALL NEW 4" WHITE PAVEMENT MARKINGS	2026 LF
19	INSTALL NEW 12" WHITE STOP BAR	69 LF
20	INSTALL NEW ACCESSIBLE PARKING SPACE SYMBOL	3 EA
21	INSTALL NEW SIGN POST AND FOUNDATION PER ADOT STD DTL S-3	11 EA
22	MOUNT SIGN ON THE PROPOSED LIGHT POLE	3 EA
23	REMOVE AND REPLACE EXISTING SIGN	18 EA
24	REMOVE EXISTING SIGN	2 EA
26	INSTALL FLASHING LED EQUIPMENT FOR STOP SIGN PER DETAIL T-1 (SEE PM02)	2 EA
45	INSTALL NEW 12" CROSSWALK LINE	505 LF

- PAVEMENT MARKING NOTES**
- USE WATERBORNE PAINT FOR ALL PARKING LOT MARKINGS, INCLUDING STALLS, LEGENDS AND OTHER MARKINGS.
 - USE THERMOPLASTIC FOR STOP BARS AND CROSSWALKS.
 - IN THE INTERIM CONDITION, PRIOR TO FINAL PAVEMENT INSTALL PARKING LOT AND STOP BAR PAVEMENT MARKINGS USING WATERBORNE PAINT.
 - PAVEMENT MARKING QUANTITIES ARE DOUBLED IN FINAL ESTIMATE TO ACCOUNT FOR INTERIM AND FINAL CONDITIONS

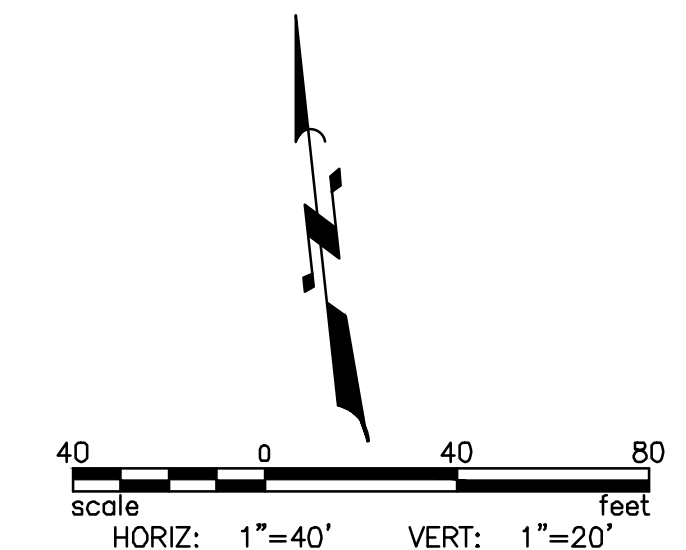
- GENERAL CONSTRUCTION NOTES**
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LEGEND

	ASPHALT PAVEMENT
--	------------------



**DETAIL T-1
NOT TO SCALE**



REVISIONS:

NO.	DESCRIPTION

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

PAVEMENT MARKING SHEET 02
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



PROJECT NO.
3720205006

DRAWING NAME
PM02

SHEET NO. 29 OF 52

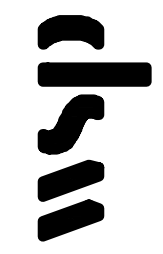
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CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	3 EA
16	INSTALL NEW #5 PULL BOX	5 EA
17	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 1ST UP TO 4TH; OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#4 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	645 LF
25	INSTALL NEW MEYERS LOAD CENTER CABINET AND FOUNDATION (200 AMPS)	1 EA
31	JUNCTION BOX TO STREETLIGHT FEEDS ON BEALE STREET: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT D) NO GFCI, MOUNTING HARDWARE WILL STILL NEED TO BE INSTALLED IN DECORATIVE BASE FOR FUTURE GFCI INSTALLATION E) NO AMP KITS	95 LF

REVISIONS:

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4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
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FAX: 602-733-6100



SL/CIR #
CIRCUIT #

GENERAL CONSTRUCTION NOTES

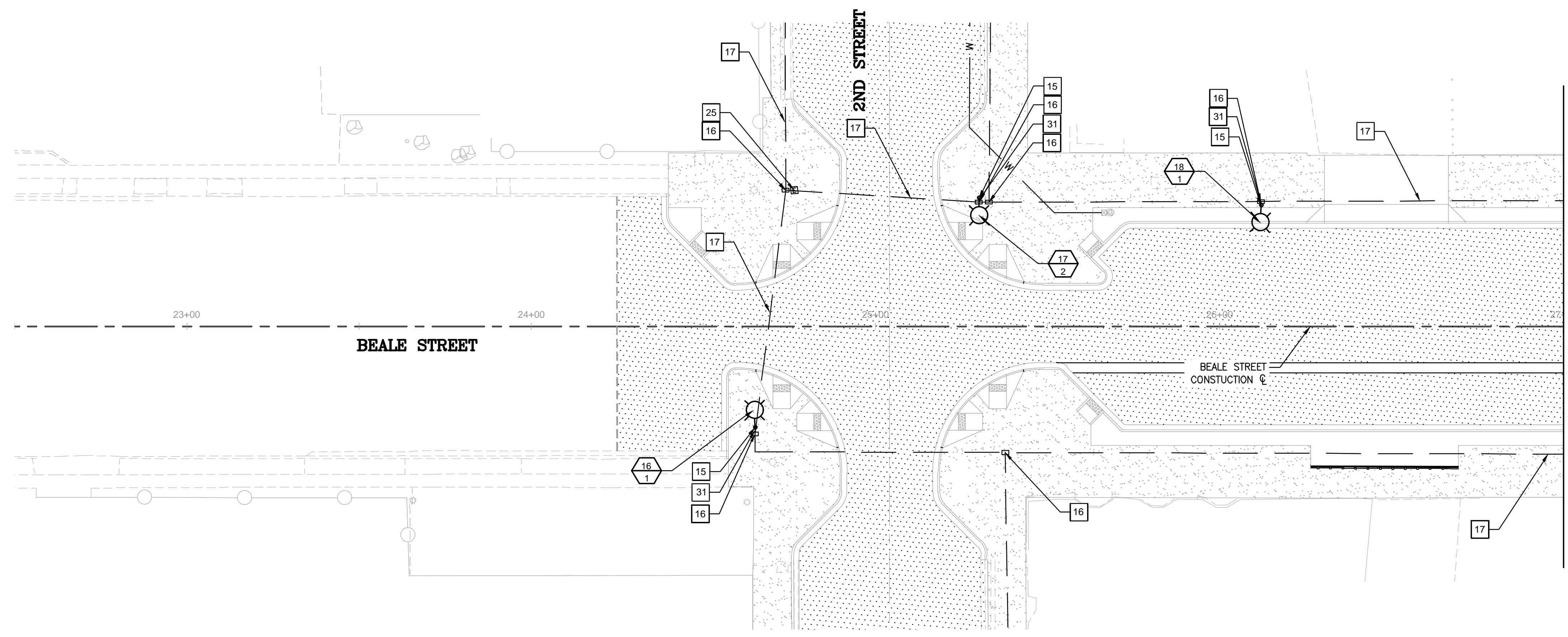
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LEGEND

ASPHALT PAVEMENT

NOTES

- STREETLIGHT FOUNDATIONS FROM GRANDVIEW TO 1ST WILL BE VACUUM EXCAVATED TO ACCOUNT FOR IMMEDIATELY ADJACENT UTILITIES
- CENTER OF STREETLIGHT FOUNDATIONS SHALL BE INSTALLED 1'-3" OFF BACK OF SIDEWALK AND FIELD ADJUSTED BASED ON LOCATION OF EXISTING UTILITIES
- CONDUIT AND JUNCTION BOXES SHALL BE FIELD ADJUSTED BASED ON LOCATION OF UTILITIES
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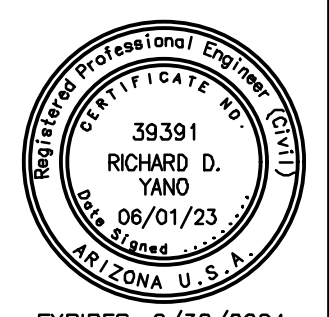


MATCHLINE STA 27+00
SEE SHEET SLO3

STREET LIGHT PLAN

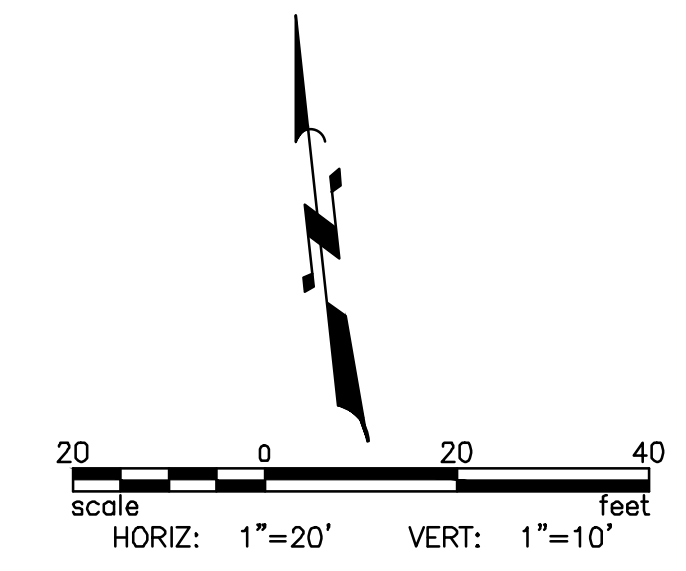
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



PROJECT NO.
3720205006

DRAWING NAME
SL02
SHEET NO. 30 of 52



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CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	9 EA
16	INSTALL NEW #5 PULL BOX	12 EA
17	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 1ST UP TO 4TH: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#4 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	956 LF
25	INSTALL NEW MEYERS LOAD CENTER CABINET AND FOUNDATION (200 AMPS)	1 EA
31	JUNCTION BOX TO STREETLIGHT FEEDS ON BEALE STREET: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 1" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT D) NO GFCI. MOUNTING HARDWARE WILL STILL NEED TO BE INSTALLED IN DECORATIVE BASE FOR FUTURE GFCI INSTALLATION E) NO AMP KITS	227 LF
35	EXISTING SIGNAL JUNCTION BOX TO REMAIN	4 EA
37	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 4TH TO 6TH: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	468 LF

STREET LIGHT #
CIRCUIT #

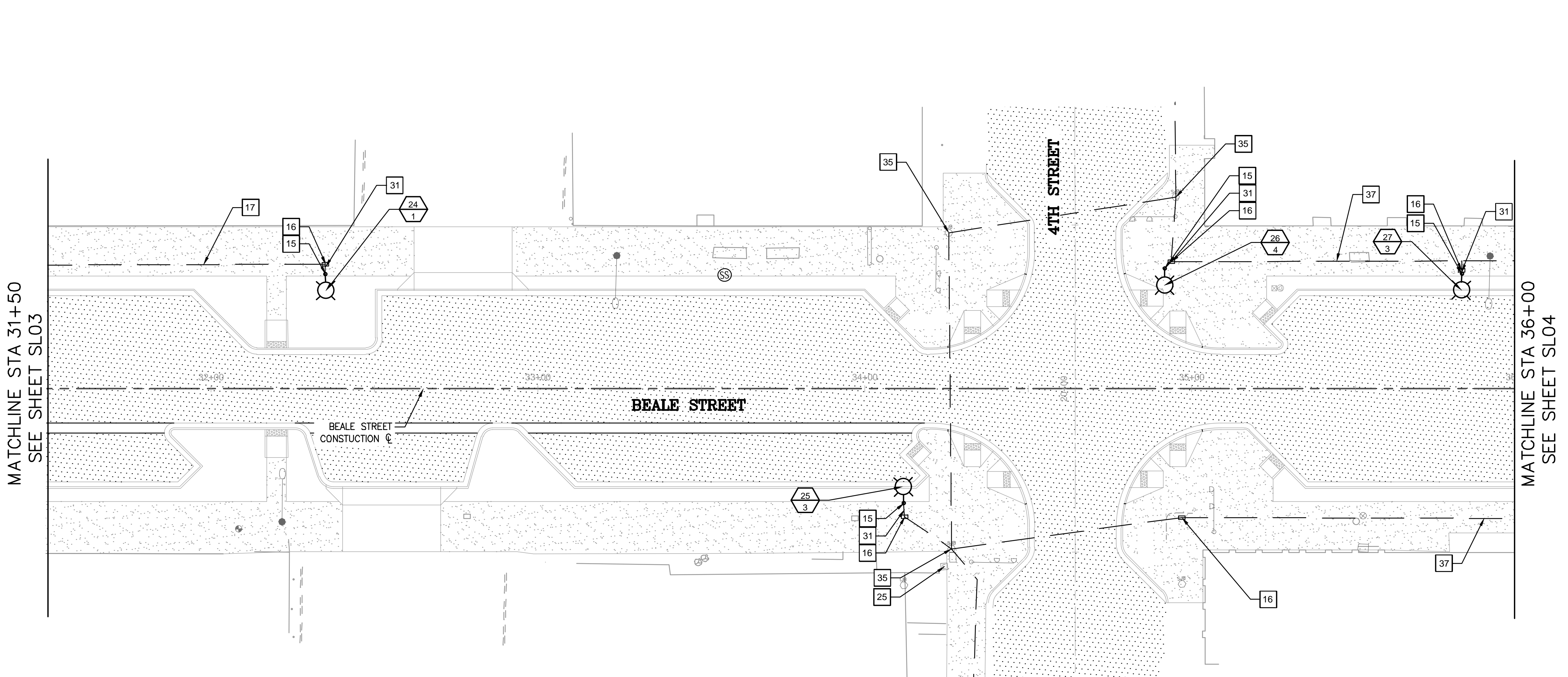
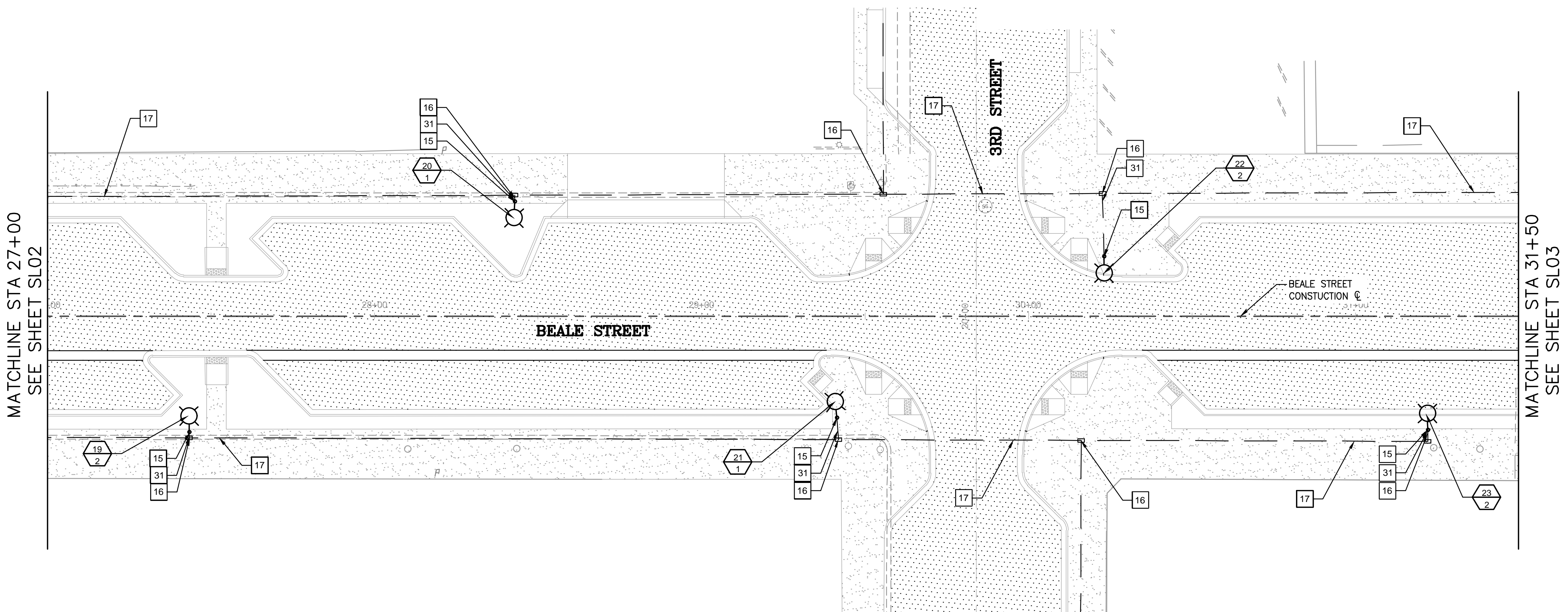
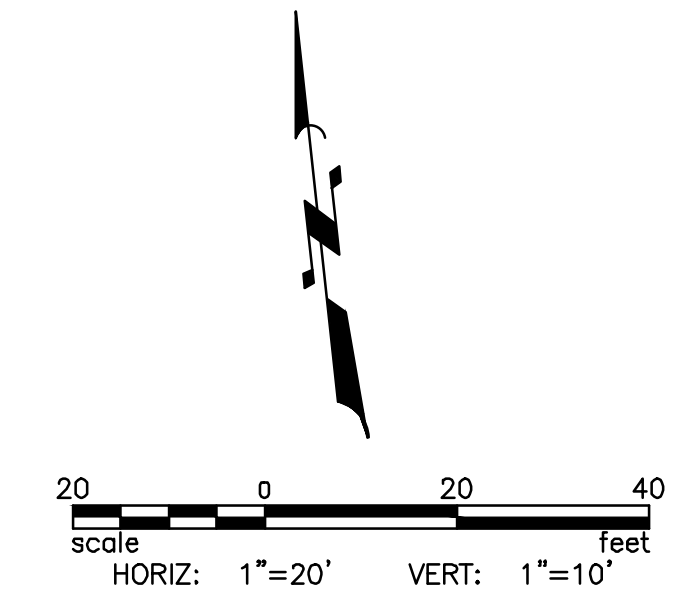
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LEGEND

ASPHALT PAVEMENT

- NOTES
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REVISIONS:

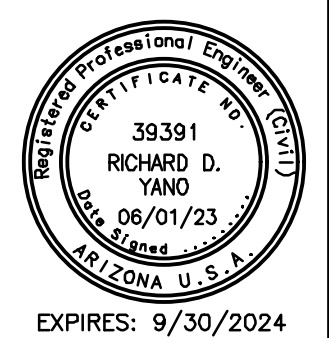
WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

STREET LIGHT PLAN

KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

PROJECT NO.
3720205006



DRAWING NAME
SL03
SHEET NO. 31 OF 52

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CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	4 EA
16	INSTALL NEW #5 PULL BOX	5 EA
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37	JUNCTION BOX TO JUNCTION BOX FEEDS ON BEALE STREET FROM 4TH TO 6TH: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) SINGLE 2.0" CONDUIT WITH 2-#2 THWN AND 1 #8 BARE FOR FUTURE GFCI'S C) NO SPARE CONDUIT	900 LF

SL STREET LIGHT #
CIR CIRCUIT #

GENERAL CONSTRUCTION NOTES

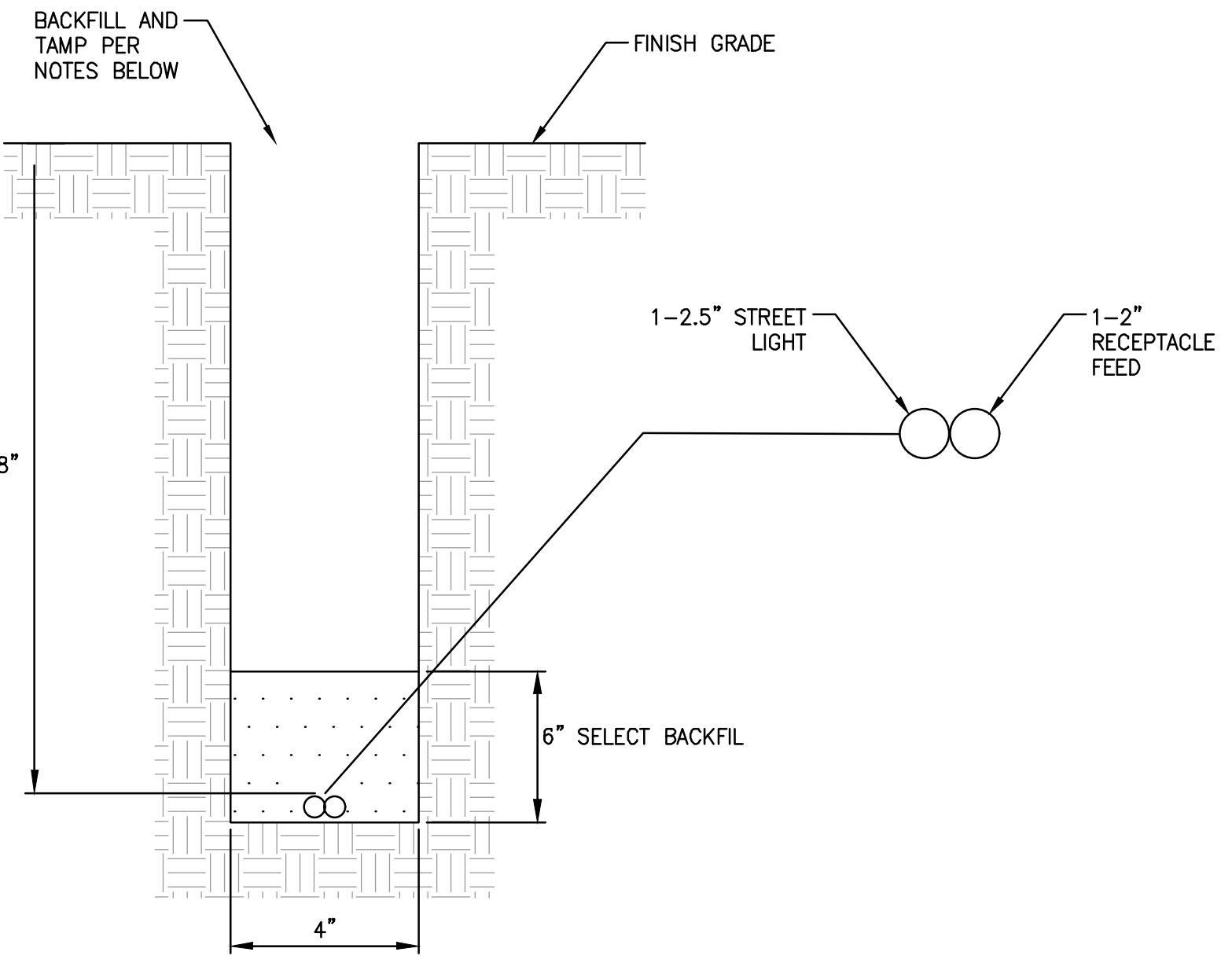
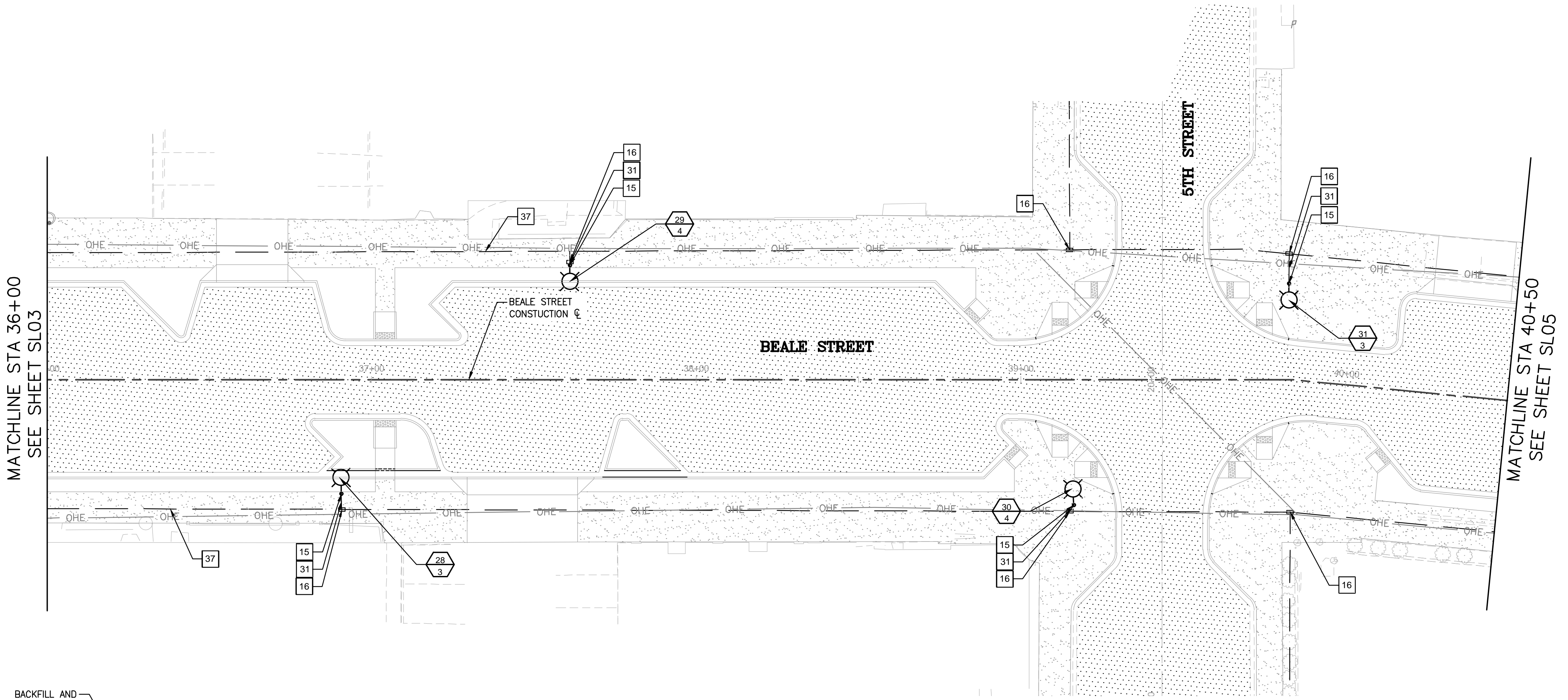
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LEGEND

ASPHALT PAVEMENT

NOTES

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Sheet	Roadway Section	Power Source 1st @ Beale Street		Power Source 4th @ Beale Street	
		Circuit 1	Circuit 2	Circuit 3	Circuit 4
SL01	Grandview - 1st	5	5		
SL02 top	1st intersection	1	2		
SL06 top	1st st	1	1		
SL02 bottom	2nd St intersection	3	2		
SL06 bottom	2nd st	1	1		
SL03 top	3rd St intersection	2	3		
SL07 top	3rd St	1	1		
SL03 bottom	4th St intersection	1		2	1
SL07 Bottom	4th st			1	1
SL04 Top+bottom	5th St Intersection			5	4
SL08 Top	5th			1	1
SL05	6th St Intersection			1	1
SL08 bottom	6th			1	1
Total		15	15	11	9
Total amps/pole		0.83			
Amps/circuit		12.5	12.5	9.17	7.5
Max Amps/ Circuit		20 amps			
Allowable Amps/Circuit 80%		16 amps			
Max Distance (ft)		1550	1550	1400	1400
Voltage Drop Ohms		9.63	9.63	10.14	8.3
Max Allowable drop Ohms		12	12	12	12

Sheet	Roadway Section	Power Source 1st @ Beale Street		Power Source 4th @ Beale Street	
		Circuit 1	Circuit 2	Circuit 3	Circuit 4
SL01	Grandview - 1st	5	5		
SL02 top	1st intersection	1	2		
SL06 top	1st st				
SL02 bottom	2nd St intersection	3	2		
SL06 bottom	2nd st				
SL03 top	3rd St intersection	2	3		
SL07 top	3rd St				
SL03 bottom	4th St intersection	1		2	1
SL07 Bottom	4th st				
SL04 Top+bottom	5th St Intersection			5	4
SL08 Top	5th			1	1
SL05	6th St Intersection			1	1
SL08 bottom	6th				
Total		12	12	8	6
Breaker/Circuit		50 amp breaker	50 amp breaker	50 amp breaker	50 amp breaker
Total amps/pole					
Amps/circuit		20	20	20	20
Max Distance (ft)		1550	1550	1400	1400
Voltage Drop Ohms		9.69	9.69	8.75	8.75
Max Allowable drop Ohms		12	12	12	12

STREET TYPE AND ROAD WIDHT	LAND USE	Conduit		SPACING PATTERN	MOUNTING HEIGHT
		AVERAGE FOOT-CANDLES	UNIFORMITY RATIO (AVG-TO-MIN)		
ILLUMINATION STANDARDS					
COLLECTOR ROAD 45'-65'	COMMERCIAL	0.7-0.9	4:1 - 6:1	STAGGERED	20'-30'
SIDEWALK 5'	NA	0.3-0.7	4:1	NA	NA
ILLUMINATION PROVIDED					
COLLECTOR ROAD 60'	COMMERCIAL	0.9	3:1		
SIDEWALK 12'	COMMERCIAL	0.5	5:1	STAGGERED	29'

Construction Note	Conduit and Conductor Schedule	
	Conduit	Conductors
17	2.5"	Street Light, Speaker, Festive Lights
	2"	Receptacles
31	1"	Street Light, Speaker, Festive Lights
	1"	Receptacles
37	2.5"	Street Lights
	2"	Receptacles

TRENCHING
TRENCHES SHALL HAVE A MINIMUM WIDTH OF 4" AND A MINIMUM COVER OVER CONDUIT OF 18". THE CONDUIT SHALL HAVE A MINIMUM COVER OF 18" FROM FINAL GRADE. BOTTOM OF TRENCH MUST BE SMOOTH, FLAT, WITHOUT SURFACE IRREGULARITIES AND FREE OF DEBRIS AND ORGANIC MATERIALS.

BACKFILL
BEDDING AND SHADE MUST BE ABLE TO PASS 100% THROUGH A #3 SIEVE, 80% THROUGH A #4 SIEVE, AND 60% THROUGH A #10 SIEVE. 6" OF LEVEL BEDDING SHALL BE PLACED IN THE TRENCH TOPPED BY 8" OF SHADE.

COMPACTION
AT LEAST 6" OF SELECT MATERIAL MUST BE PLACED OVER THE FACILITY BEFORE TAMPING. ACCEPTABLE COMPACTION METHODS ARE HAND-TAMPING WITH PNEUMATIC OR VIBRATING EQUIPMENT, AND WATER JETTING OR FLOODING IN ACCORD WITH MAG SPECS. SECTION 601.4.5 COMPACT BACKFILL TO A DENSITY OF 90% OF STANDARD PROCTOR MAG SPEC SECTION 601.4.4, TYPE 1

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
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STREET LIGHT PLAN

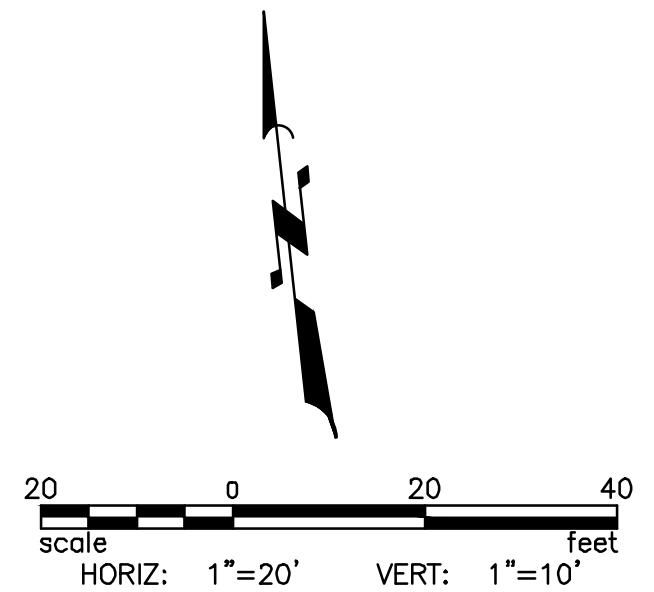
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

PROJECT NO.
3720205006

DRAWING NAME
SL04

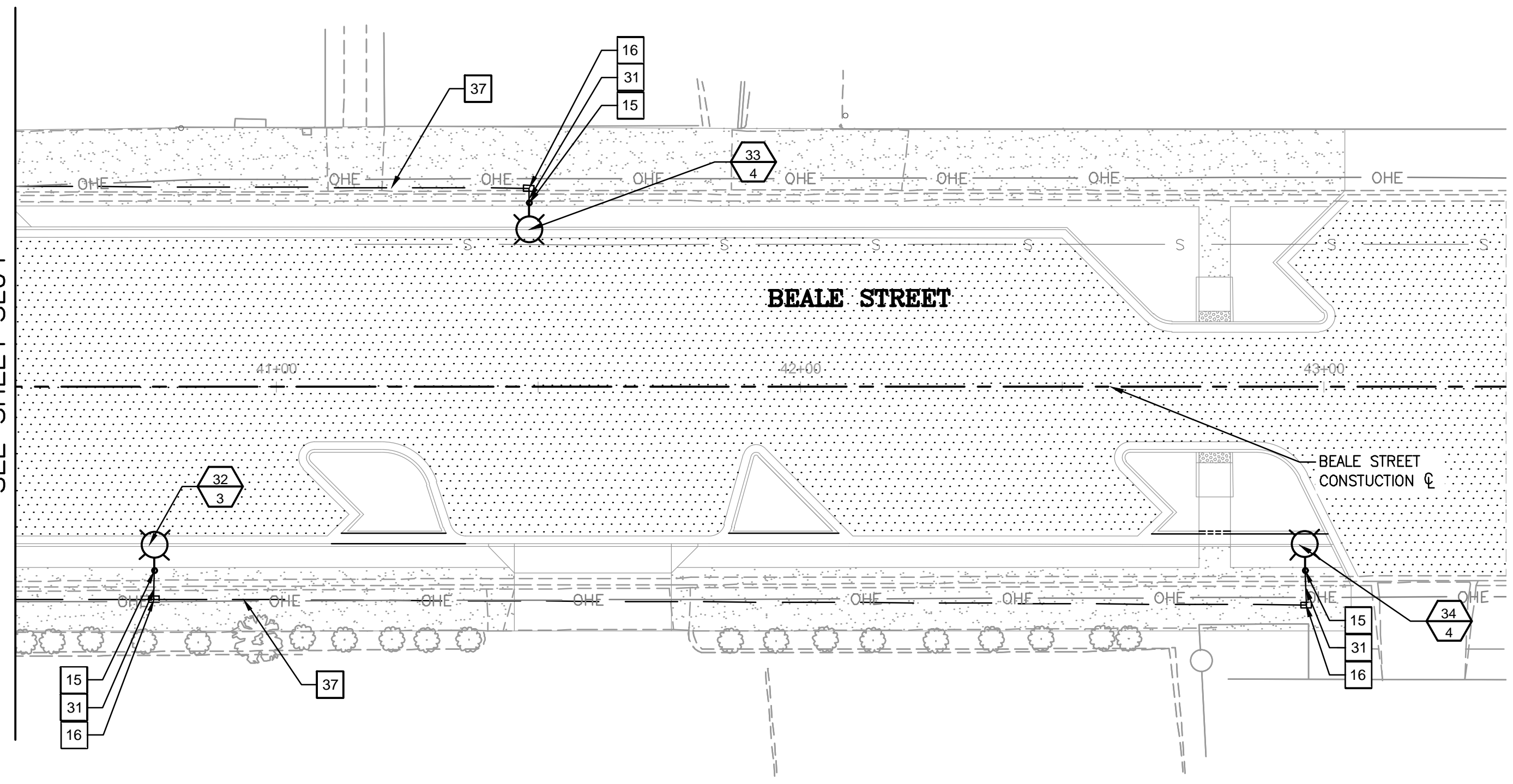
SHEET NO. 32 OF 52



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MATCHLINE STA 40+50
SEE SHEET SLO4

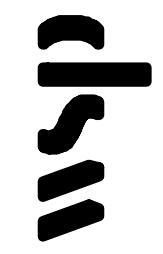


CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
15	INSTALL NEW ARLEN 20 ALUMINUM POLE W/RECEPTACLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	3 EA
16	INSTALL NEW #5 PULL BOX	3 EA
31	OPEN TRENCH (CONDUIT PLACEMENT PER DETAIL S-1, SEE SHEET SLO5) INSTALL NEW 1" CONDUIT WITH 2 #10 THWN, 1 #8 BARE FOR STREETLIGHT, SPEAKER AND FESTIVE LIGHTING. FOR THE RECEPTACLE, INSTALL 2#10 THWN AND 1#8. INSTALL 20 AMP FUSE KIT AND 20 AMP GFCI FOR EACH RECEPTACLE	75 LF
37	OPEN TRENCH (CONDUIT PLACEMENT PER DETAIL S-1, SEE SHEET SLO5) 1-3" CONDUIT INSTALL 2#6 THWN 1#8 BARE (FOR STREET LIGHTS 1-3" CONDUIT. INSTALL RECEPTACLE CONDUCTORS 2#2 THWN, 1#8 BARE AND 1-2" SPARE	345 EA

REVISIONS:

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100



SL STREET LIGHT #
CIR CIRCUIT #

GENERAL CONSTRUCTION NOTES

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- VARIANCE FROM THIS DRAWING AND/OR SPECIFICATIONS WILL REQUIRE PRIOR APPROVAL OF THE CITY ENGINEER.

LEGEND

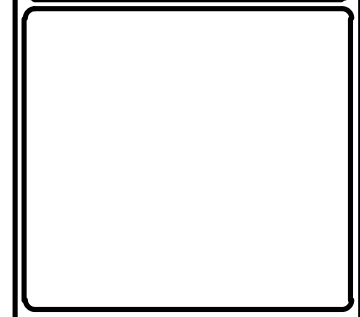
ASPHALT PAVEMENT

NOTES

- STREETLIGHT FOUNDATIONS FROM GRANDVIEW TO 1ST WILL BE VACUUM EXCAVATED TO ACCOUNT FOR IMMEDIATELY ADJACENT UTILITIES
- CENTER OF STREETLIGHT FOUNDATIONS SHALL BE INSTALLED 1'-3" OFF BACK OF SIDEWALK AND FIELD ADJUSTED BASED ON LOCATION OF EXISTING UTILITIES
- CONDUIT AND JUNCTION BOXES SHALL BE FIELD ADJUSTED BASED ON LOCATION OF UTILITIES
- CITY OF KINGMAN SHALL RELOCATE ANY IRRIGATION OR CITY UNDERGROUND POWER PRIOR TO CONSTRUCTION

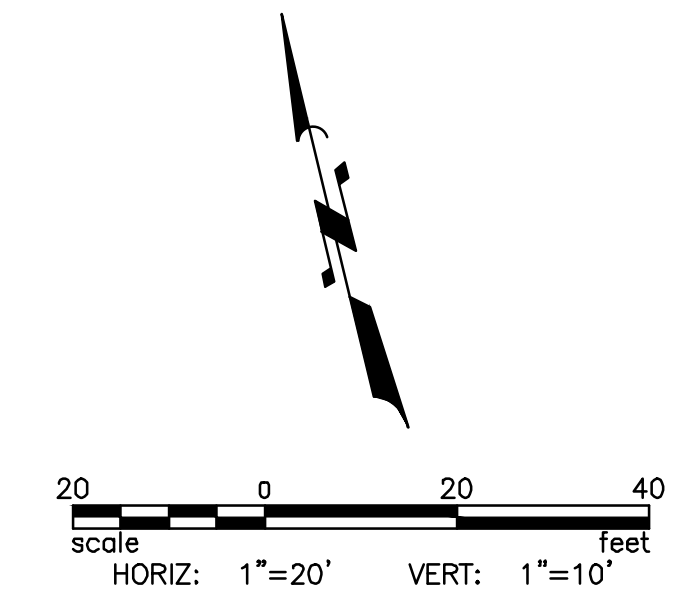
STREET LIGHT PLAN
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



PROJECT NO.
3720205006

DRAWING NAME
SL05
SHEET NO. 33 OF 47



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CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
16	INSTALL NEW #5 PULL BOX	4 EA
39	INSTALL NEW ARLEN 20 ALUMINUM POLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SLO9	4 EA
43	JUNCTION BOX TO JUNCTION BOX FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	676 LF
44	JUNCTION BOX TO STREETLIGHT FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1.0" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	100 LF

SL STREET LIGHT #
CIR CIRCUIT #

GENERAL CONSTRUCTION NOTES

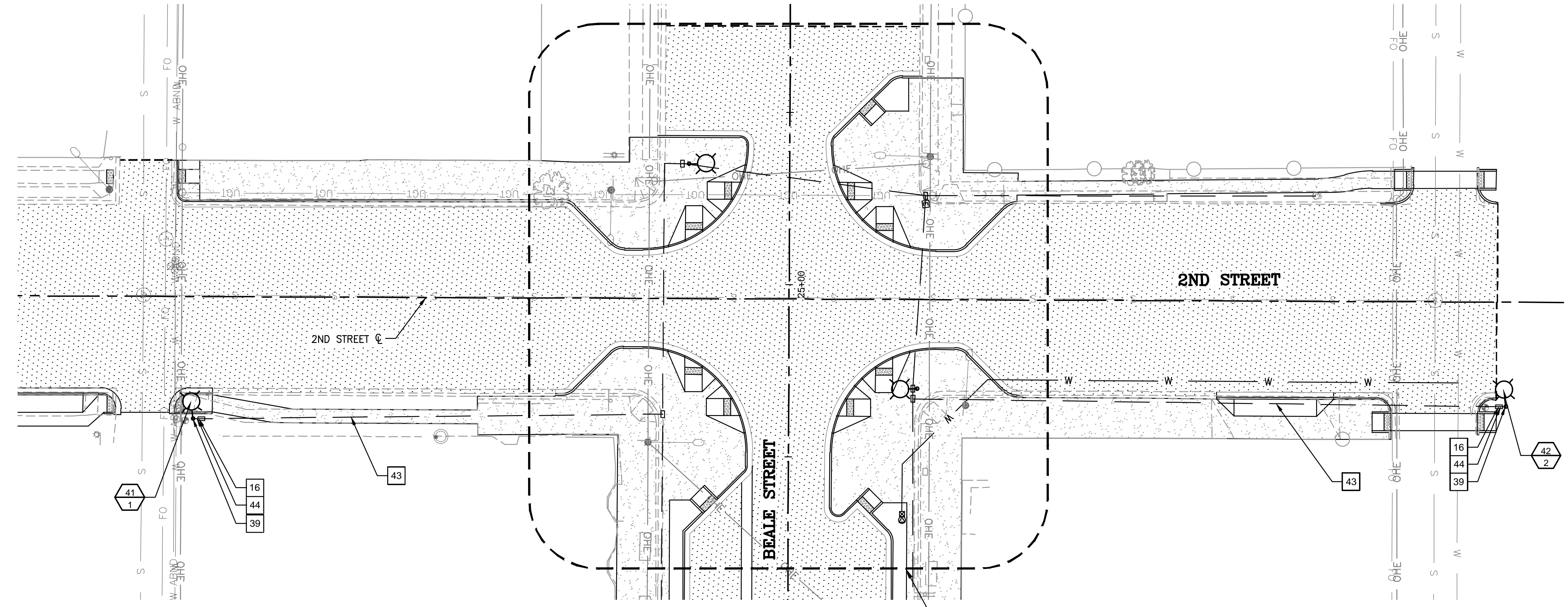
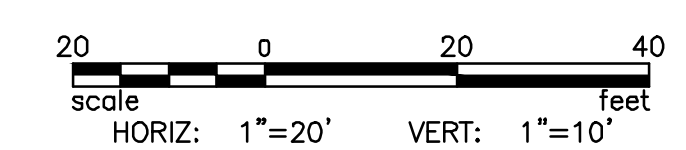
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LEGEND

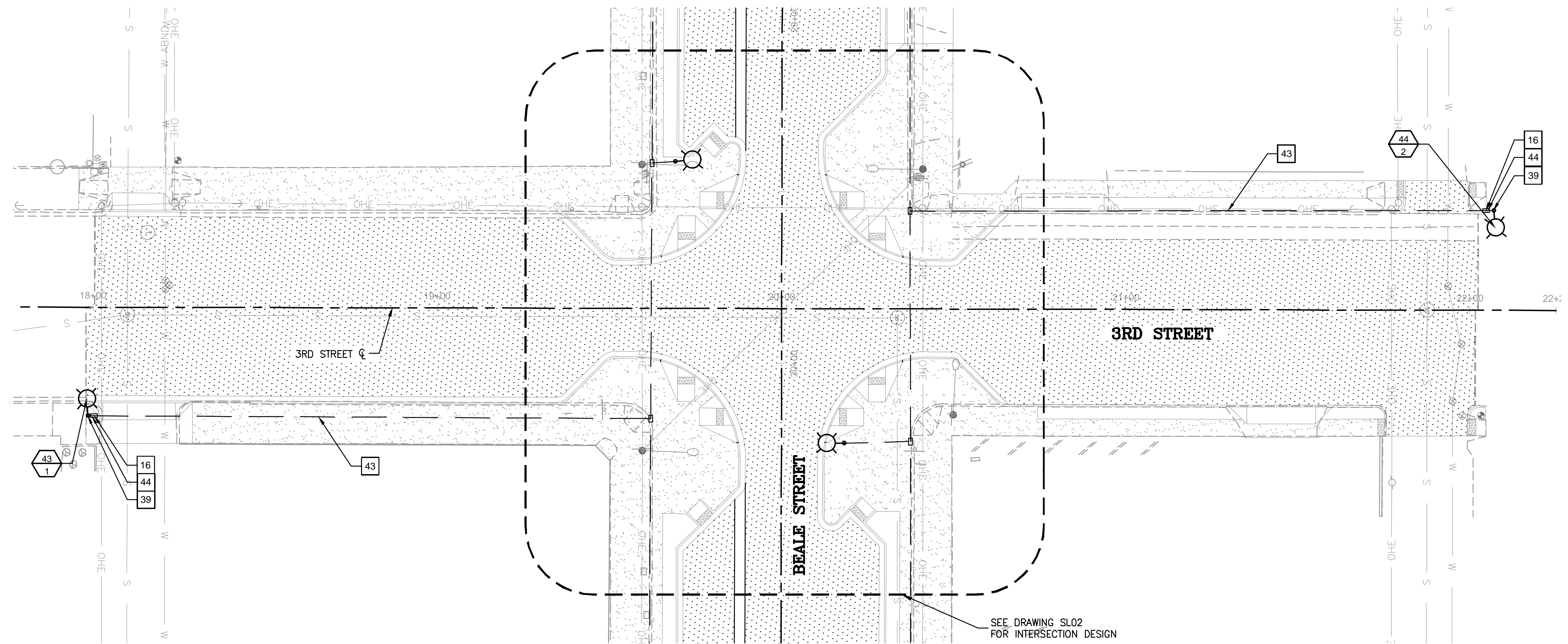
 ASPHALT PAVEMENT

NOTES

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SEE DRAWING SL01 FOR INTERSECTION DESIGN



SEE DRAWING SL02 FOR INTERSECTION DESIGN

REVISIONS:

NO.	DESCRIPTION

WSP USA Environment & Infrastructure, Inc.
4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000
FAX: 602-733-6100

STREET LIGHT PLAN
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

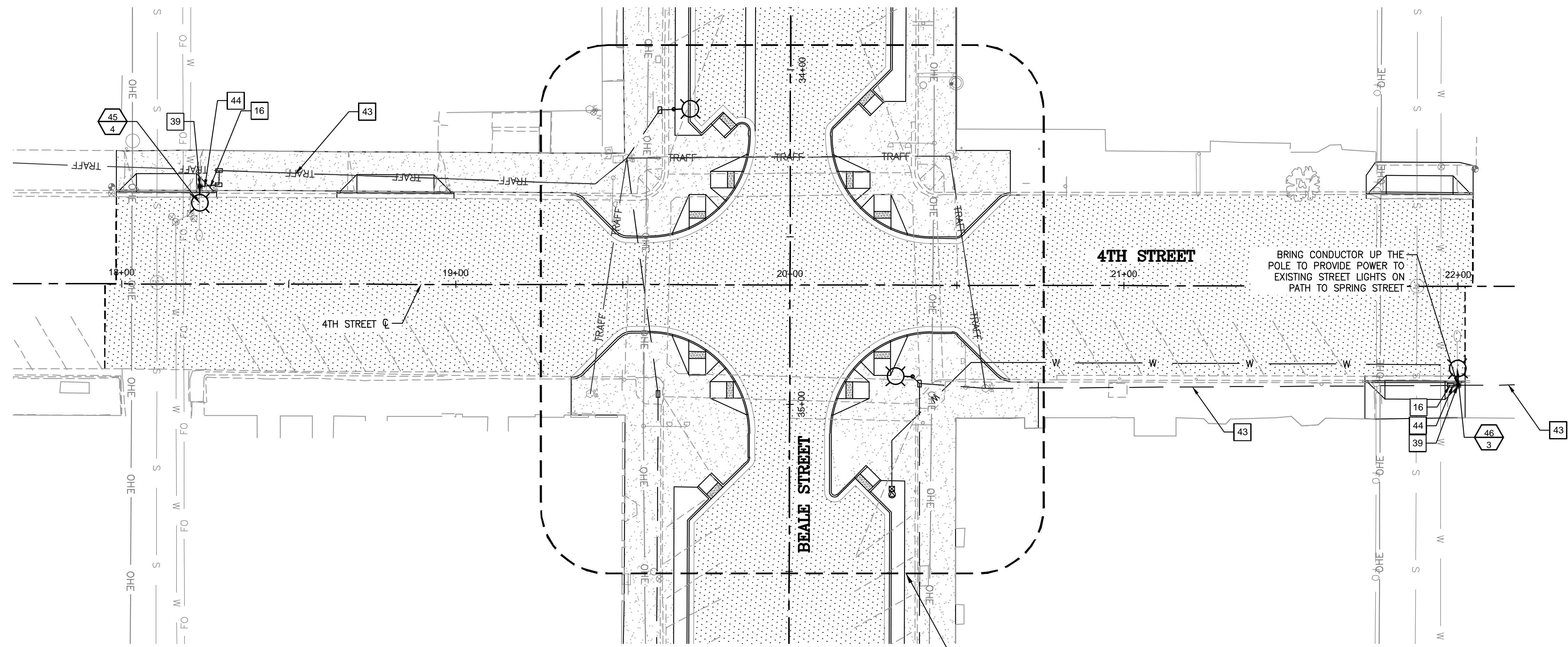
DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023



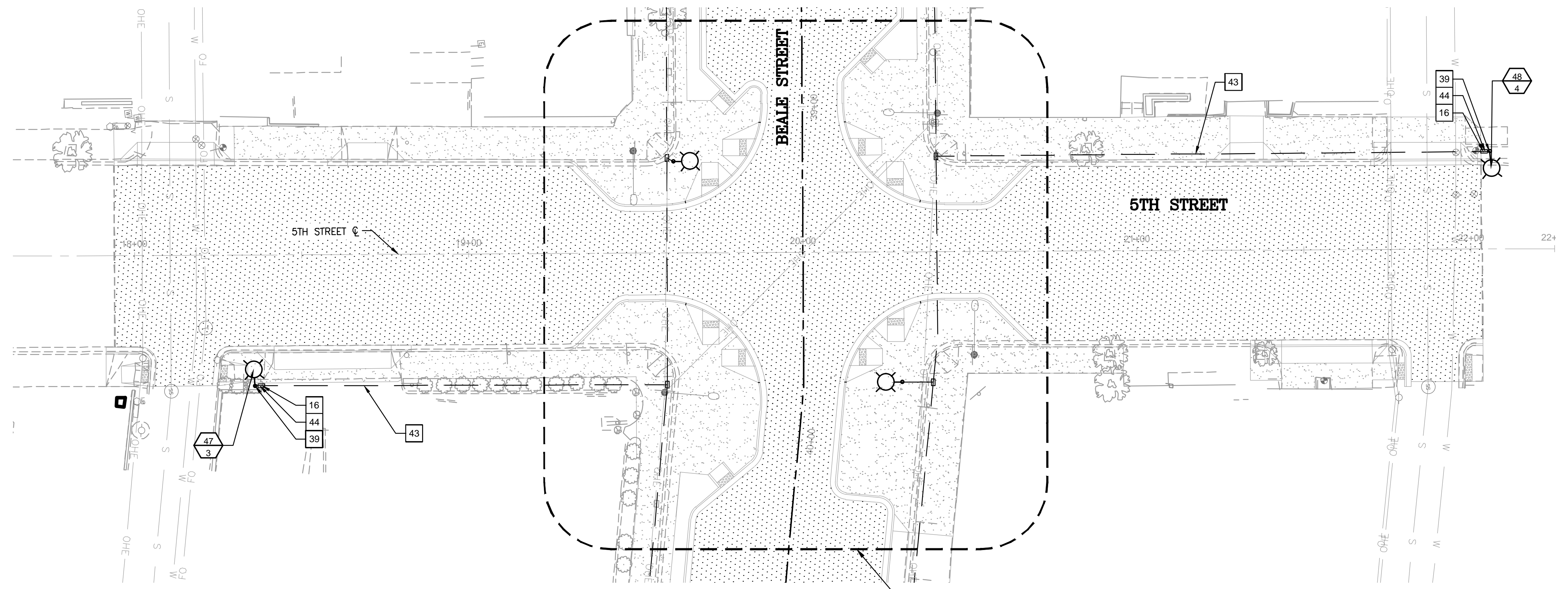
PROJECT NO.
3720205006

DRAWING NAME
SL07
SHEET NO. 34 of 52

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SEE DRAWING SL02 FOR INTERSECTION DESIGN



SEE DRAWING SL03 FOR INTERSECTION DESIGN

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY
16	INSTALL NEW #5 PULL BOX	4 EA
39	INSTALL NEW ARLEN 20 ALUMINUM POLE, FOUNDATION, ARM AND LUMINAIRE (CEM CLASSICAL EPIC MEDIUM LED) SEE SHEET SL09	4 EA
43	JUNCTION BOX TO JUNCTION BOX FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 2.5" CONDUIT WITH 2-#6 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	955 LF
44	JUNCTION BOX TO STREETLIGHT FEEDS ON NORTH/SOUTH CROSS STREETS: OPEN TRENCH, DIRECTIONAL BORE, OR SOFT DIG CONDUIT AND INSTALL WIRE AS FOLLOWS: A) SINGLE 1.0" CONDUIT WITH 2-#10 THWN AND 1 #8 BARE FOR STREETLIGHTS B) NO SPARE CONDUIT	100 LF

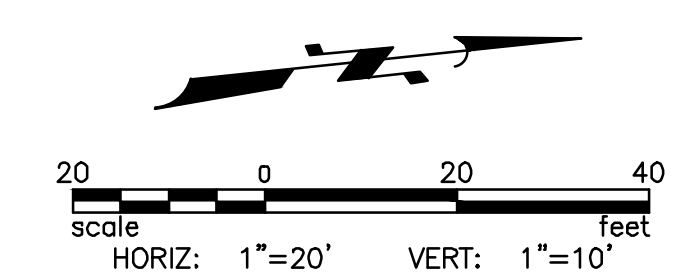
SL STREET LIGHT #
CIR CIRCUIT #

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LEGEND

ASPHALT PAVEMENT



REVISIONS:

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PROJECT NO.
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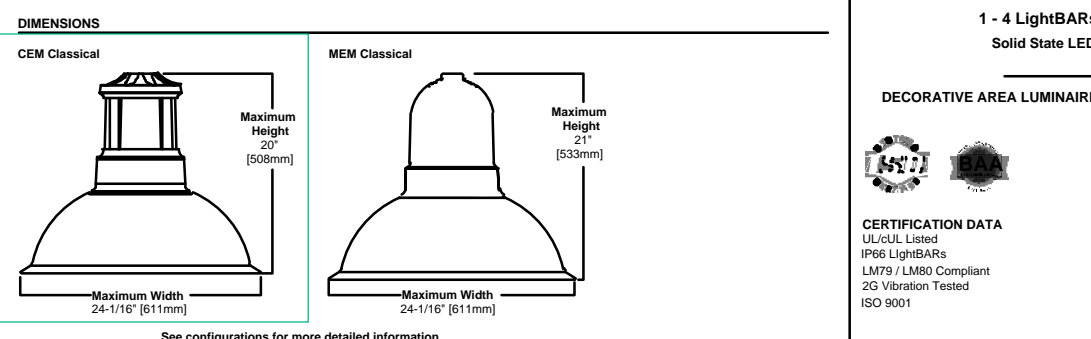
DRAWING NAME
SL08
SHEET NO. 35 OF 52

DESCRIPTION
The EPIC Collection delivers custom luminaire flexibility with high quality, yet availability expectations of standard specification grade products. The EPIC Collection can be directed to suit any application. Recognizing evolving environmental and legislative trends, the EPIC Collection delivers world class LED optical and performance solutions to the decorative luminaire marketplace.

DESIGNATION
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CONNECTION
Cast aluminum top housing attaches to cast aluminum mounting arm hub with four stainless steel fasteners. One-piece silicone gasket between mounting hub and top casting seals out moisture and contaminants. (Only these connections are compatible with the Epic luminaires.)
Mid section features cast aluminum construction and stainless steel assembly. SHADES: Heavy gauge precision spun aluminum shades offer superior surface finish and consistency in form. DOORFRAME: Die-cast aluminum 1/8" thick door and doorframe seal to underside of shade with a nickel plated universal silicone gasket. Mounting hub shape attached to mounting arm.

OPTICS
Choice of twelve patented, high-efficiency AccuLED Optic™ technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the projection, maximizing efficiency and accuracy spacing. AccuLED Optic technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 2700 CCT) and nominal color temperatures of 70 CRI. Optimal 3000K CCT and 5000K CCT. For the ultimate level of spill light control, an optional house-side shield is designed to be field or factory installed. The house-side shield is designed to be field or factory installed. The house-side shield is designed to be field or factory installed. The house-side shield is designed to be field or factory installed.



CEM MEM EPIC MEDIUM LED
Decorative Area Luminaire
1 - 4 Light/Bar(s)
Solid State LED

CEMMEM EPIC MEDIUM LED
Decorative Area Luminaire
1 - 4 Light/Bar(s)
Solid State LED

POWER AND LUMENS BY BAR COUNT (1 LED LIGHTBAR)

Number of LightBars	Bar 1	Bar 2	Bar 3	Bar 4
Power (Watts)	289	578	867	1156
Current @ 120V (A)	2.41	4.82	7.23	9.64
Current @ 277V (A)	0.10	0.20	0.30	0.40
Power (Watts)	290	580	870	1160
Current @ 120V (A)	2.42	4.84	7.26	9.68
Current @ 277V (A)	0.10	0.21	0.31	0.41

POWER AND LUMENS BY BAR COUNT (2 LED LIGHTBARS)

Number of LightBars	Bar 1	Bar 2	Bar 3	Bar 4
Power (Watts)	578	1156	1734	2312
Current @ 120V (A)	4.82	9.64	14.46	19.28
Current @ 277V (A)	0.20	0.40	0.60	0.80
Power (Watts)	580	1160	1740	2320
Current @ 120V (A)	4.84	9.68	14.52	19.36
Current @ 277V (A)	0.21	0.41	0.61	0.81

LUMEN MAINTENANCE

Hours (Thousands)	25000	50000	60000	100000	Theoretical (%)
0	100%	100%	100%	100%	100%
10	95%	90%	85%	75%	90%
20	90%	80%	75%	65%	85%
30	85%	75%	70%	60%	80%
40	80%	70%	65%	55%	75%
50	75%	65%	60%	50%	70%

LUMEN MULTIPLIER

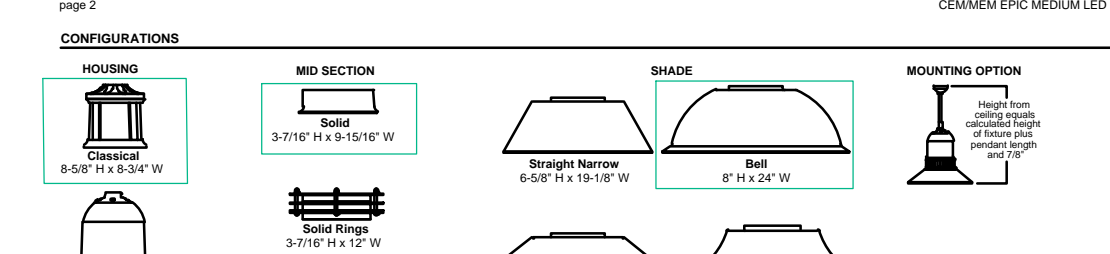
Temperature	100%	105%	110%	115%	120%
25°C	1.00	1.00	1.00	1.00	1.00
30°C	0.98	0.98	0.98	0.98	0.98
35°C	0.95	0.95	0.95	0.95	0.95
40°C	0.90	0.90	0.90	0.90	0.90
45°C	0.85	0.85	0.85	0.85	0.85
50°C	0.80	0.80	0.80	0.80	0.80

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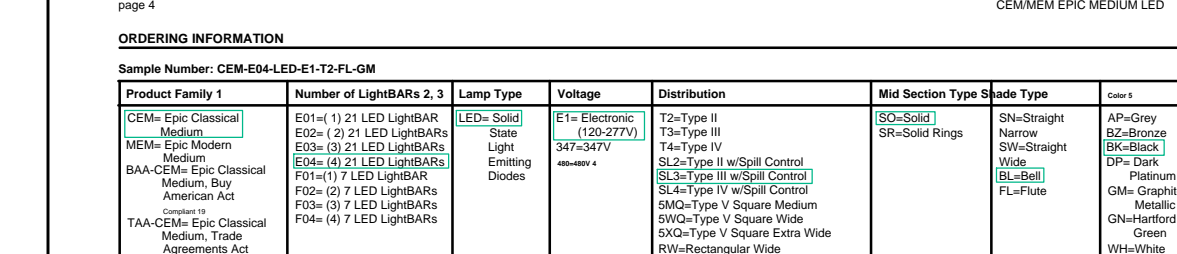
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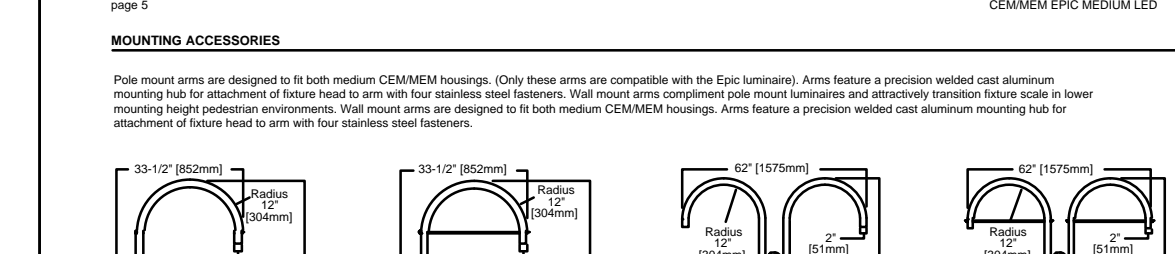
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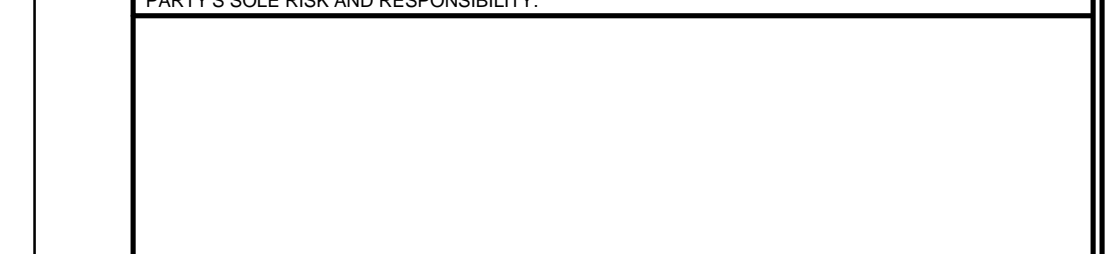
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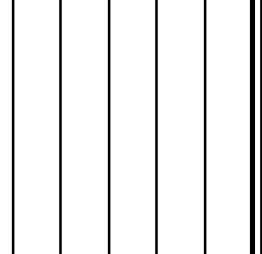
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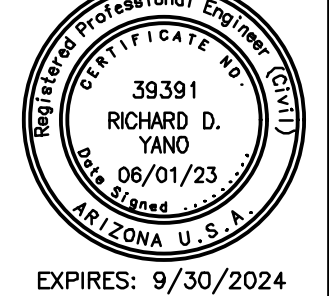
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4600 E. WASHINGTON STREET, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-233-6000
FAX: 602-233-6100

LIGHTING EQUIPMENT DETAILS
KINGMAN DOWNTOWN INFRASTRUCTURE
BEALE ST - 1ST ST TO 6TH ST
KINGMAN, ARIZONA

DESIGNED BY: HMR
DRAWN BY: AA
CHECKED BY: DY
DATE: JUNE 2023

PROJECT NO. 37205006
DRAWING NAME SL09
SHEET NO. 36 OF 52



EXPIRES: 9/30/2024

CITY OF KINGMAN BEALE STREET IMPROVEMENTS

PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
Existing Tree to Remain - Protect in Place			3
Existing Tree to be Removed			7
Pistacia chinensis	36" Box		46
Chinese Pistache	H 12'-14" W 6'-8" *ADWR		
Caliper Size: 3"			
Ulmus parvifolia	36" Box		60
Evergreen Elm 'Allee'	H 10'-12" W 6'-8" *ADWR		
Caliper Size: 3"			

SHRUBS / ACCENTS	QTY
Bouteloua Gracilis	5 Gallon 288
Blue Grama 'Blonde Ambition'	can full *ADWR
Euphorbia rigida	5 Gallon 111
Gopher Plant	can full *ADWR
Dasylirion wheeleri	5 Gallon 57
Desert Spoon	can full *ADWR

LANDSCAPE MATERIALS	QTY
Decomposed Granite. 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.	4,210 S.F.
Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock No More Than 2" Above Grade, LID areas per plan, 8" layer.	5,920 S.F.

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant

** DG/Rip Rap color alternates acceptable with Owner approval

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOTES
WATER METER	PER LOCAL STANDARDS, NEW IRRIGATION METER - 1.0" SIZE	
RPBFA	BACKFLOW PREVENTER ASSEMBLY, FEBCO 825-Y, 1.0" SIZE PER PLAN, PROVIDE METAL ENCLOSURE.	
CONTROLLER	CONTROLLER A+B = 12 STATION HUNTER XC SOLAR, PROVIDE LEMA 1600 HE SOLENOID ACTUATOR FOR EACH VALVE, STEEL POST MOUNT AND LOCKING ENCLOSURE, PROVIDE LIGHTNING AND GROUNDING PROTECTION	
CONTROL VALVE	HUNTER SERIES ICV SIZE PER PLAN	
FLOW SENSOR	DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION, 1" SIZE.	
GATE VALVE	NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL	
DRIP VALVE	HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN	
FLUSH CAP	SPEARS FLUSH CAP 1/2" FLUSH VALVE	
PRESSURE REG.	SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)	
EMITTER - SP	BOWSMITH 1.0 GPH (1 PER PLANT)	
EMITTER - MP	BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'	
SERVICE POINT	CONNECT TO EXISTING POTABLE WATER SERVICE	

PIPE LEGEND	DESCRIPTION
MAINLINE - SIZE PER PLAN	PVC SCH. 40
TREE LATERAL	PVC SCH. 40 - SOLVENT WELD
SHRUB LATERAL	PVC SCH. 40 - SOLVENT WELD
WIRE SLEEVE	PVC SCH. 40 - MINIMUM 1 1/2" SIZE
PIPE SLEEVE	PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

LANDSCAPE GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND SPECIFICATIONS.
- CAREFULLY INSPECT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES WITH THESE DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE ABOVE STANDARDS, SPECIFICATIONS AND DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
- HOLD HARMLESS AND INDEMNIFICATION CLAUSE - THE CONTRACTOR SHALL AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY TO ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDSCAPE ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY; REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE LANDSCAPE ARCHITECT.
- UNAUTHORIZED CHANGES TO DRAWINGS - THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF DRAWINGS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- UNDERGROUND SERVICE ALERT - NOTIFY BLUE STAKE 48 HOURS PRIOR TO DIGGING AT 1-800-STAKE-IT. EXERCISE EXTREME CARE IN WORKING NEAR EXISTING UTILITIES. VERIFY THE LOCATION AND CONDITION OF UTILITIES PRIOR TO CONSTRUCTION.
- INSPECTIONS - NOTIFY CITY REPRESENTATIVE AND APPROPRIATE AGENCY REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE PRIOR TO REQUIRED GOVERNING AGENCY INSPECTION.
- QUANTITIES INDICATED IN DRAWINGS ARE PROVIDED AS A COURTESY ONLY. VERIFY QUANTITIES SHOWN BY CONDUCTING AN INDEPENDENT QUANTITY TAKE OFF.
- CITY OF KINGMAN AND LANDSCAPE ARCHITECT WILL DECIDE QUESTIONS RELATING TO INTERPRETATION OF DRAWINGS AND ACCEPTABLE FULFILLMENT OF THE WORK SHOWN IN CONTRACT DOCUMENTS.
- MAINTAIN PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL TO THE WORK AT ALL TIMES INCLUDING WEEKENDS AND HOLIDAYS. DISPOSE OF RUBBLE, TRASH, OR DISPOSABLE ITEMS RESULTING FROM DEMOLITION IN A LEGAL, LAWFUL, AND SAFE MANNER TO AN APPROVED DISPOSAL SITE.
- APPLY PRE-EMERGENT AFTER COMPLETION OF EARTHWORK, LEACHING, BED PREPARATION AND FINE GRADING PRIOR TO TOP DRESS.
- ALL EXISTING LANDSCAPE AREAS OUTSIDE THE PROJECT AREA THAT ARE DISTURBED BY ANY ACTIVITY UNDER THIS CONTRACT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE CITY AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL PROVIDE FLAGGED AND/OR STAKED LAYOUT OF ALL PLANTING LOCATIONS FOR REVIEW AND ADJUSTMENT, IF NECESSARY, BY THE CITY'S REPRESENTATIVE PRIOR TO STARTING IRRIGATION OR PLANT PIT EXCAVATIONS.
- ANY AND ALL PLANTS OR TREES, NOT DESIGNATED TO BE REMOVED, WHICH ARE DISTURBED OR DAMAGED AS A RESULT OF WORK UNDER THIS CONTRACT SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITH A PLANT OF EQUAL OR BETTER QUALITY AND OF THE SAME SIZE AND SPECIES OF THE ORIGINAL EXISTING PLANT UNLESS OTHERWISE DIRECTED BY THE CITY'S REPRESENTATIVE.
- CONTRACTOR SHALL FINE GRADE AREAS PRIOR TO PLANTING. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC., FROM THE SITES, FORMING LOW-FLOW CHANNEL FOOTPRINTS AS NOTED ON THE PLANS, BACKFILLING BEHIND BOULDERS ON LOW-FLOW CHANNEL SLOPES, AND ENSURE POSITIVE DRAINAGE.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS, WALLS, UTILITY EQUIPMENT, ETC.
- THE IRRIGATION SYSTEM IS TO BE FULLY OPERATIONAL AND EFFECTIVE PRIOR TO THE INSTALLATION OF PLANT MATERIAL.

HARDSCAPE GENERAL NOTES

- CONTRACTOR SHALL LAYOUT AND VERIFY ALL HARDSCAPE ELEMENTS PRIOR TO CONSTRUCTION FOR REVIEW BY THE LANDSCAPE ARCHITECT OR CITY'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT THE CITY'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES EXIST. THE CONTRACTOR SHALL SUBMIT IN WRITING SUGGESTED MODIFICATION AND RECEIVE TRANSMITTED RECORD OF APPROVAL FROM CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DIMENSIONS SHOWN ON THIS PLAN ARE BASED ON THE DOCUMENTS SUBMITTED BY THE PROJECT CIVIL ENGINEER. THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES OCCUR. THE CONTRACTOR SHALL SUBMIT IN WRITING SUGGESTED MODIFICATION AND RECEIVE TRANSMITTED RECORD OF APPROVAL FROM OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY FIELD REVISIONS.
- REFER TO CONSTRUCTION DOCUMENTS PREPARED BY THE PROJECT CIVIL ENGINEER FOR ALL INFORMATION REGARDING HORIZONTAL AND VERTICAL CONTROL DIMENSIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL STRUCTURES REPRESENTED IN THE CONTRACT DOCUMENTS REVIEWED BY A REGISTERED STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION UNLESS OTHERWISE STATED.
- FOOTINGS, WALLS, AND FENCES SHALL BE PLACED WITHIN THE CITY RIGHT-OF-WAY.
- CONTRACTOR SHALL HAVE SIDEWALKS SURVEYED AND STAKED FOR REVIEW BY THE ENGINEER / OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR SITE REVIEW.
- CONTRACTORS SHOULD PREPARE A 4'X4' SAMPLE PANEL FOR EACH TYPE OF HARDSCAPE MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING STAINS AND SPILLS ON FINISHED HARDSCAPE IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING FINISHED WORK UNTIL PROJECT ACCEPTANCE BY CITY'S REPRESENTATIVE.

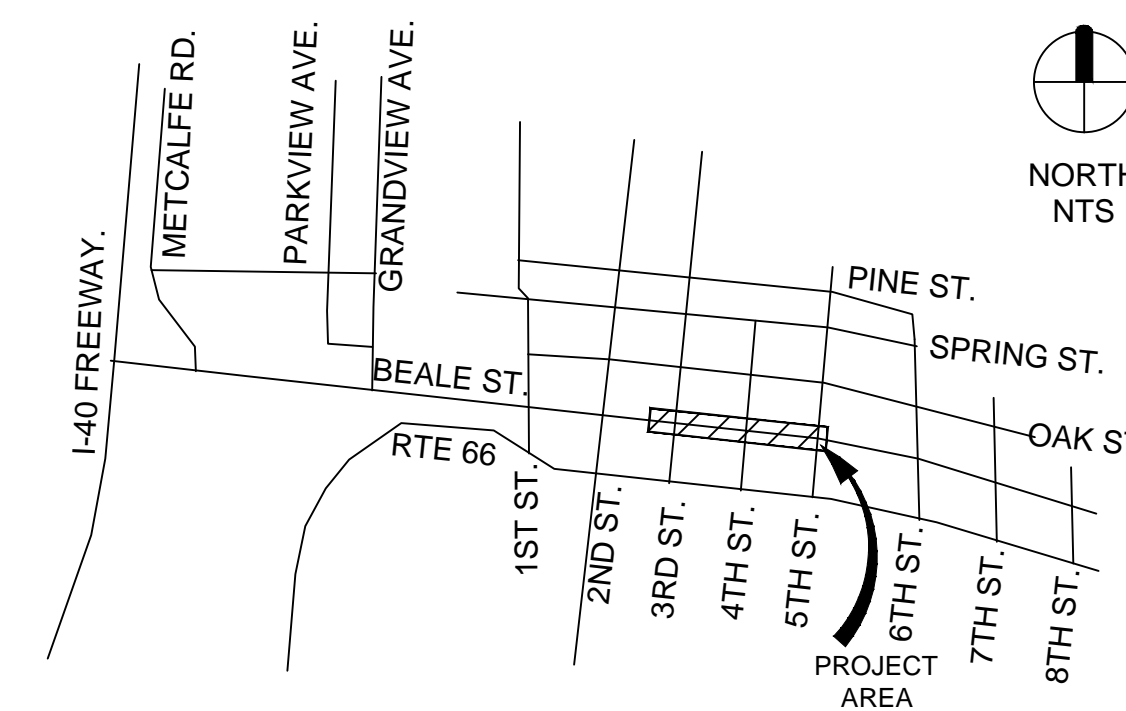
SHEET INDEX

SHEET	TITLE
L0.1	LANDSCAPE COVER
L1.0-L1.4	LANDSCAPE PLAN
L2.0-L2.4	IRRIGATION PLAN
L3.0	LANDSCAPE DETAILS
L4.0	HARDSCAPE DETAILS
L5.0-L5.1	IRRIGATION DETAILS

LANDSCAPE ARCHITECT

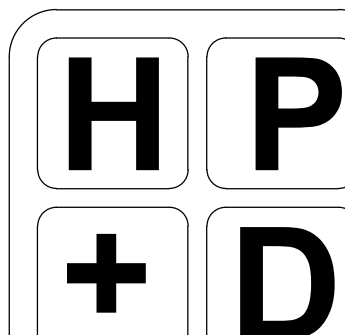
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4711 E. FALCON DRIVE, SUITE 222
MESA, ARIZONA 85215
JASON HARRINGTON, RLA, ASLA, ASIC, APWA
(480) 250-0116
JASON@HARRINGTONPLANNINGDESIGN.COM

VICINITY MAP



IRRIGATION GENERAL NOTES

- IRRIGATION PLAN IS DIAGRAMMATIC. ADJUST LOCATION OF VALVES TO PROVIDE FULL AND ADEQUATE COVERAGE OR ADD EMITTERS AS NECESSARY TO ENSURE 100% COVERAGE OF PLANT MATERIALS. PREVENT OVERSPRAY ON ADJACENT IMPROVEMENTS.
- VERIFY WATER PRESSURE IN FIELD AND NOTIFY OWNER IMMEDIATELY SHOULD A DISCREPANCY EXIST.
- SYSTEM DESIGN REQUIRES A STATIC PRESSURE OF 60 TO 75 PSI. CONTRACTOR SHALL PERFORM A FIELD VERIFICATION OF THE PRESSURE READING PRIOR TO ORDERING MATERIALS OR STARTING IRRIGATION.
- COORDINATE IRRIGATION SLEEVES LOCATION AND SIZE WITH A MINIMUM DIAMETER TWICE THE SIZE OF THE IRRIGATION LINE. EXTEND SLEEVES 12" BEYOND EDGE OF PAVEMENT, WALL, WALKS OR CURB.
- PROGRAM CONTROLLERS TO MAINTAIN SUFFICIENT FLOW RATES THROUGHOUT THE SYSTEM. ADJUST AS REQUIRED FOR SEASON AND PLANT MATERIAL UNTIL FINAL ACCEPTANCE.
- LOCATE TAN COLOR (CARSON OR EQUAL) VALVE BOXES (IRRIGATION, GATE VALVE, FLUSH CAP, CONTROL WIRE AND OTHERS) IN PLANTER AREAS. DO NOT LOCATE VALVE BOXES IN A LAWN OR HARDSCAPE UNLESS REQUIRED AND APPROVED BY OWNER.
- ALL IRRIGATION EQUIPMENT DESCRIBED IN LEGEND WILL BE ACCEPTED AS APPROVED EQUALS FOR PERFORMANCE. CONTRACTOR MAY SUBMIT FOR REVIEW EQUAL PERFORMANCE EQUIPMENT.
- MAINTAIN OR RESTORE ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS IMPACTED BY ANY WORK PERFORMED UNDER THIS CONTRACT. RESTORE IRRIGATION TO PROVIDE 100% SERVICE AND COVERAGE.
- CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPING NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL IRRIGATION SYSTEM INCLUDING ALL SUB-LATERAL PIPING, FITTINGS, AND RISERS TO EACH PLANT EMITTER AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SLEEVING WITH OTHER CONTRACTORS PRIOR TO CONSTRUCTION OF PAVEMENT, WALKS, AND OTHER HARDSCAPE FEATURES.
- THREADED JOINTS SHALL BE WRAPPED WITH TEFLON TAPE UNLESS OTHERWISE SPECIFIED BY MANUFACTURER. USE LIQUID TEFLON ON METAL PIPE THREADS ONLY.
- VALVE CORNERS, VAULT BOXES, ETC. SHALL BE PLACED SO THE EDGES ARE PARALLEL OR PERPENDICULAR TO ADJACENT HARD EDGES. TOP OF BOX IS TO BE FLUSH WITH GRADE. TOP SURFACE OF BOX SHALL BE INSTALLED SO THAT A SMOOTH SURFACE IS CREATED IN RELATION TO EXISTING GRADES.
- NO PVC PIPING SHALL BE LOCATED UNDER TREE ROOTBALLS.



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CITY OF KINGMAN
BEALE STREET IMPROVEMENTS
Beale Street
Kingman, Arizona 86401

REV.	COMMENT	DATE

100% Submittal VE	06.06.23
100% Submittal	01.18.23
90% Submittal R1	12.05.22
90% Submittal	03.04.22
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30% Submittal	04.12.21
ISSUE	DATE

LANDSCAPE PACKAGE

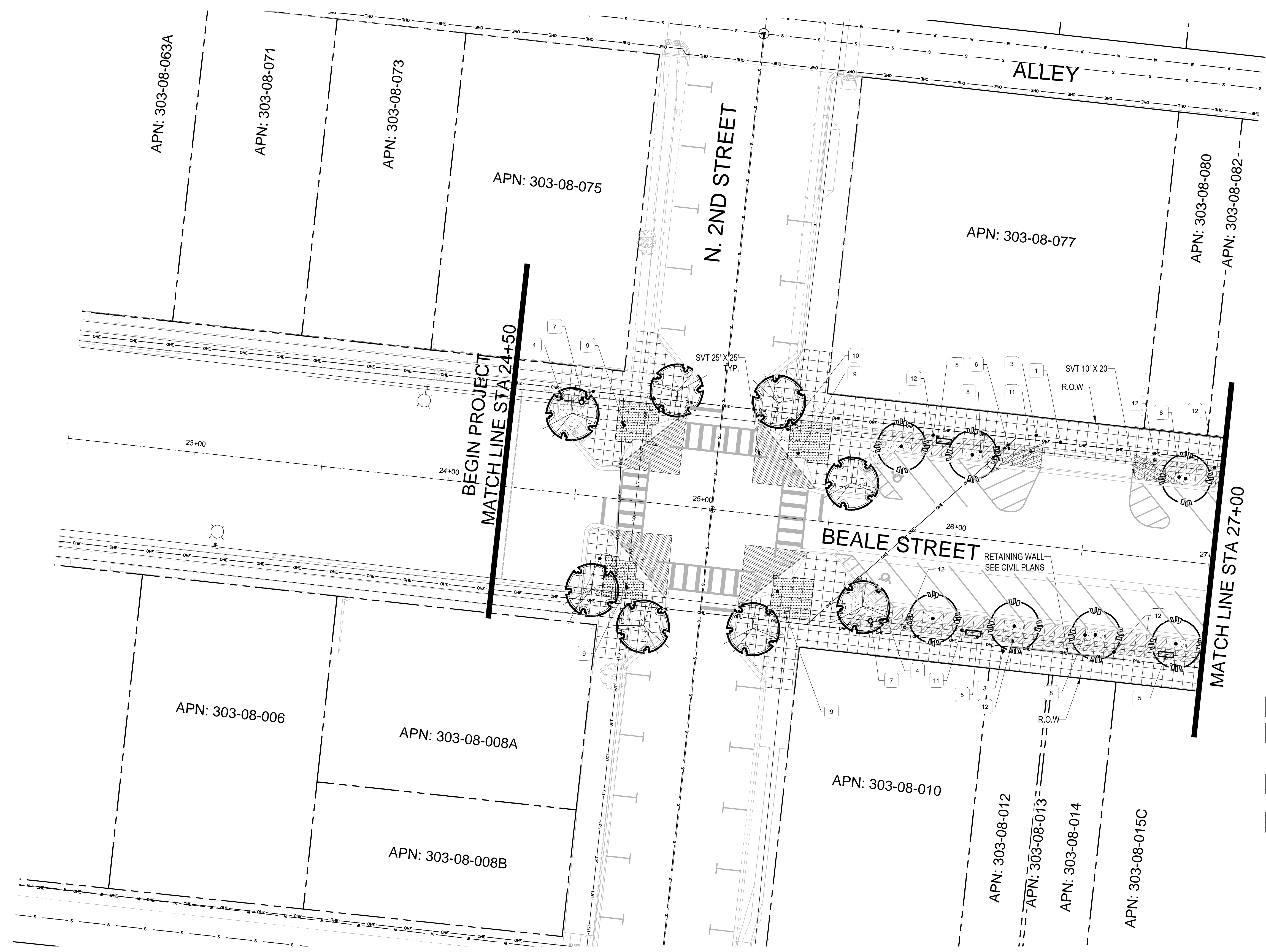
DATE:	June 6, 2023
DRAWN BY:	BZS
CHECK BY:	JEH
PROJ. NO.:	2020-007
CASE NO.:	17-2597

LANDSCAPE COVER

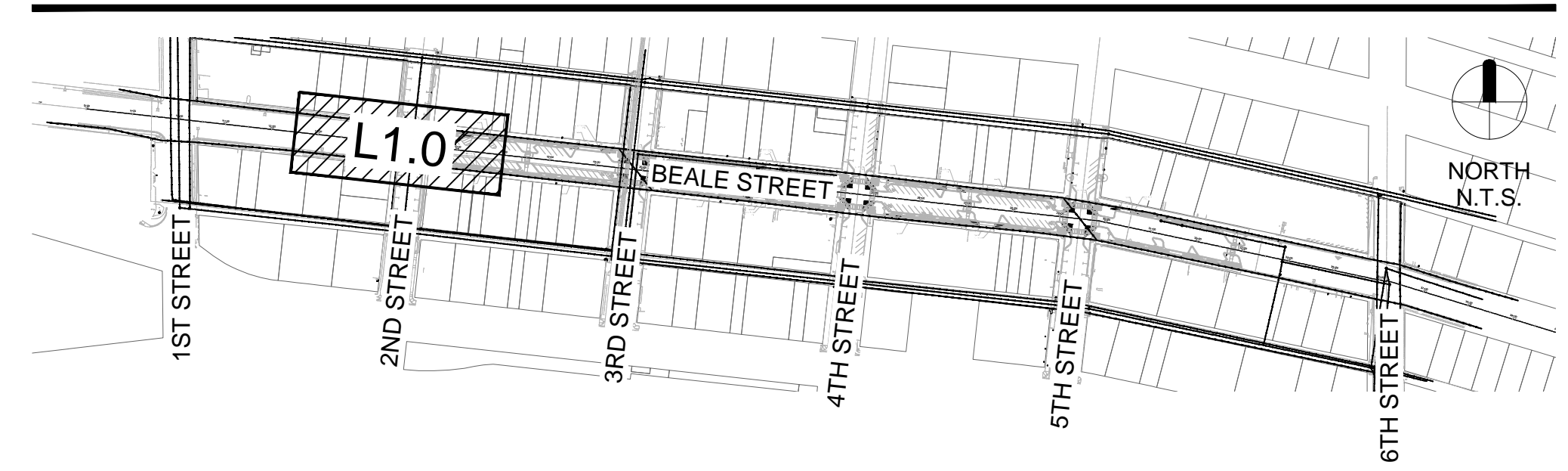
L0.1
38 of 52



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KEY MAP



PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
(+)		Existing Tree to Remain - Protect in Place	3
(⊗)		Existing Tree to be Removed	7
(P)	36" Box	Pistacia chinensis Chinese Pistache Caliper Size: 3"	46
(E)	36" Box	Ulmus parvifolia Evergreen Elm 'Allee' Caliper Size: 3"	60
SHRUBS / ACCENTS			QTY
(B)	5 Gallon	Bouteloua Gracillis Blue Grama 'Blonde Ambition' can full	288
(G)	5 Gallon	Euphorbia rigida Gopher Plant can full	111
(D)	5 Gallon	Dasyliroon wheeleri Desert Spoon can full	57
LANDSCAPE MATERIALS			
(D)	Decomposed Granite, 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.		4,210 S.F.
(R)	Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock No More Than 2" Above Grade, LID areas per plan, 8" layer.		5,920 S.F.

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant
 ** DG/Rip Rap color alternates acceptable with Owner approval

NOTES

- SEE CIVIL PLANS FOR REMOVALS AND PROTECTIONS.
- MATCH PROPOSED HARDSCAPE TO EXISTING.

KEYNOTE LEGEND

KEY	DESCRIPTION
1	EX. UTILITY FACILITY, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
2	EX. FIRE HYDRANT, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
3	PEDESTRIAN SIDEWALK ZONE - CONCRETE, 4' X 4' SCORE PATTERN, STANDARD CONCRETE, MEDIUM BROOM FINISH
4	NEW WAYFINDING SIGN, SEE DET.
5	SITE FURNISHING - BENCH, 6'-0" MAPLE BENCH LASER CUT BACKREST BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
6	SITE FURNISHING - BIKE RACK, MADRAX PIERCE SERIES POST, SEE DET., FINISH BLACK, SURFACE MOUNT
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10	NEW LIGHTING, SEE ELECTRICAL PLANS
11	STAINED CONCRETE, 4'X4' SCORE PATTERN, MEDIUM BROOM FINISH, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
12	STORY TELLING NODE - 16"X48", HISTORICAL PAVEMENT, MATERIAL PROVIDED BY CITY OF KINGMAN, SAND SET

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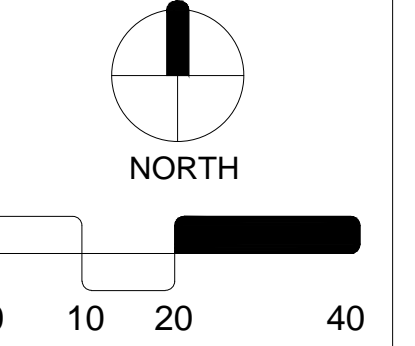
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LANDSCAPE PACKAGE

June 6, 2023

DRAWN BY:	BZS
CHECK BY:	JEH
PROJ. NO.:	2020-007
CASE NO.:	17-2597



LANDSCAPE PLAN

L1.0
 39 of 52

ARIZONA BLUESTAKE CENTER
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PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
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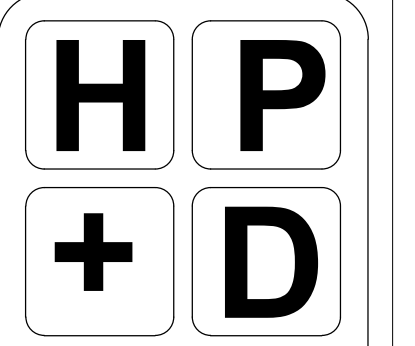
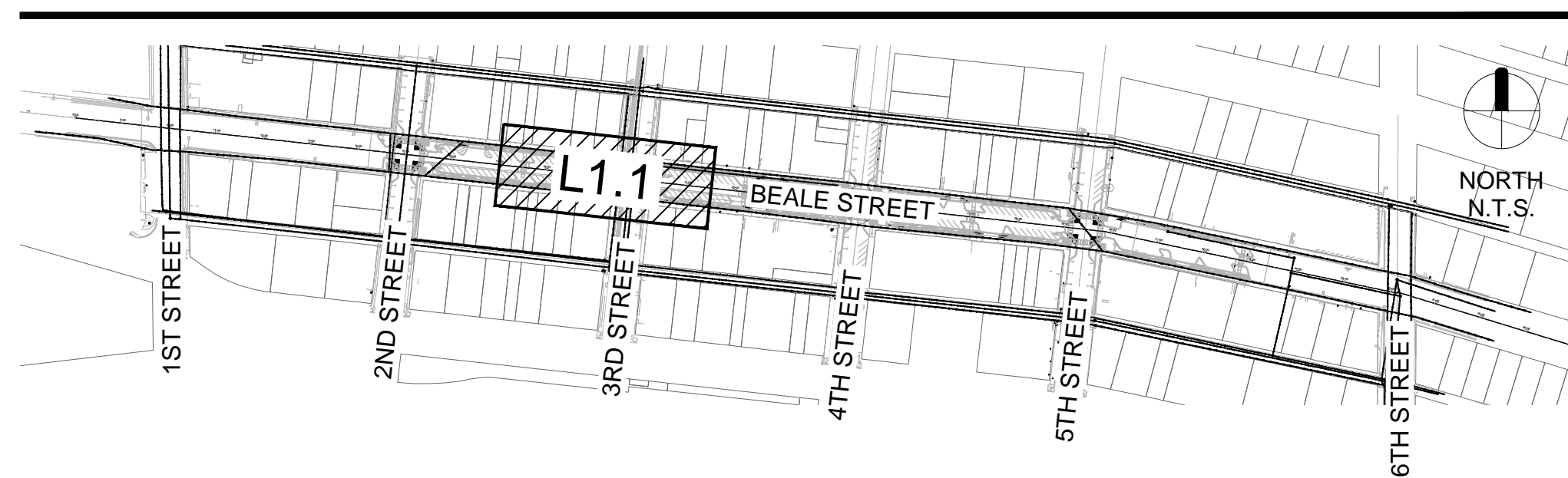
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KEY MAP



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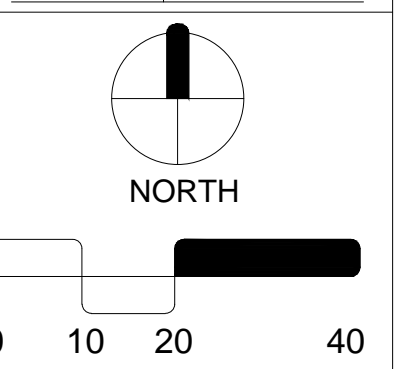
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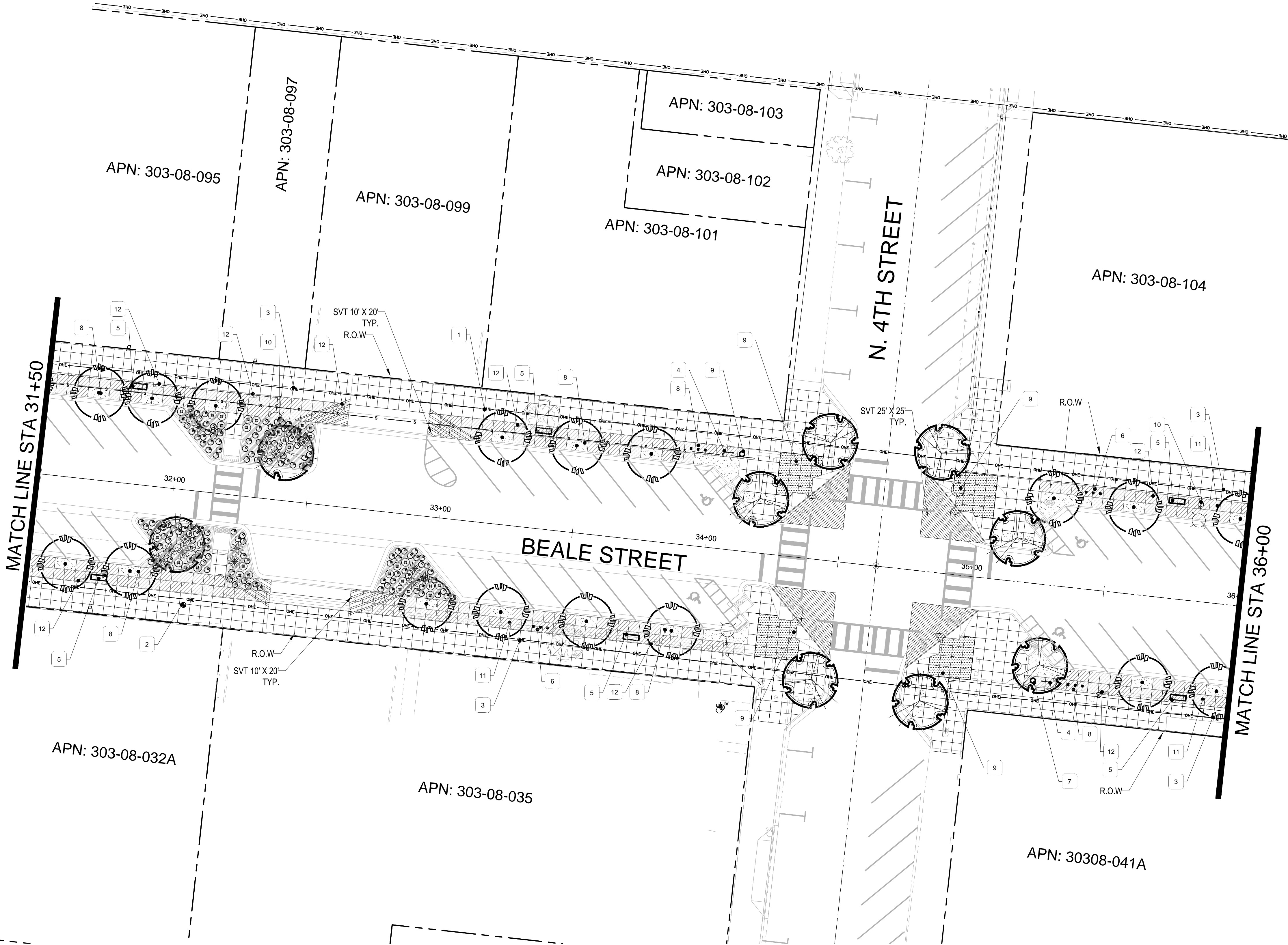


LANDSCAPE PLAN

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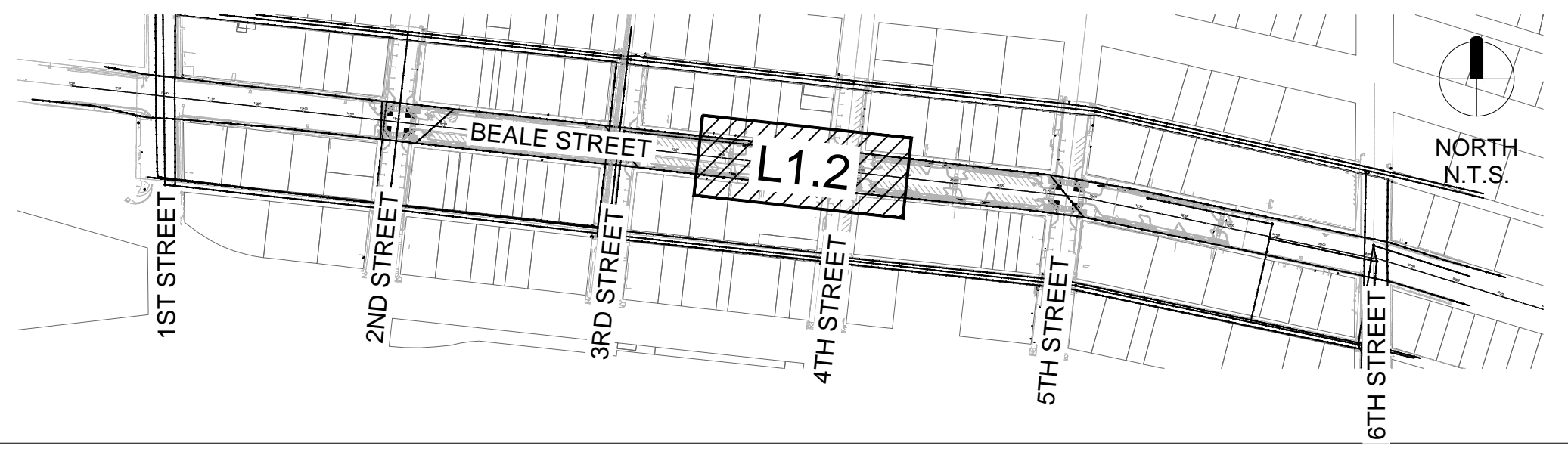
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LANDSCAPE ARCHITECT
44161
JASON E.
HARRINGTON
06.06.23
ARIZONA U.S.A.

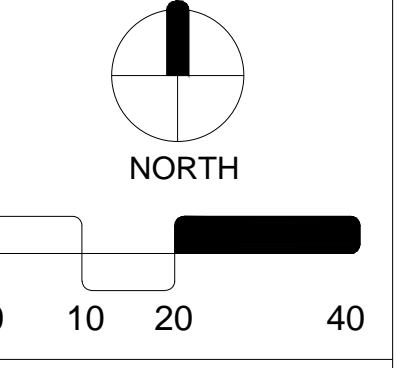
CITY OF KINGMAN
BEALE STREET IMPROVEMENTS
Beale Street
Kingman, Arizona 86401

REV.	COMMENT	DATE
100% Submittal VE		06.06.23
100% Submittal		01.18.23
90% Submittal R1		12.05.22
90% Submittal		03.04.22
60% Submittal		08.06.21
30% Submittal		04.12.21
ISSUE		DATE

LANDSCAPE PACKAGE

June 6, 2023

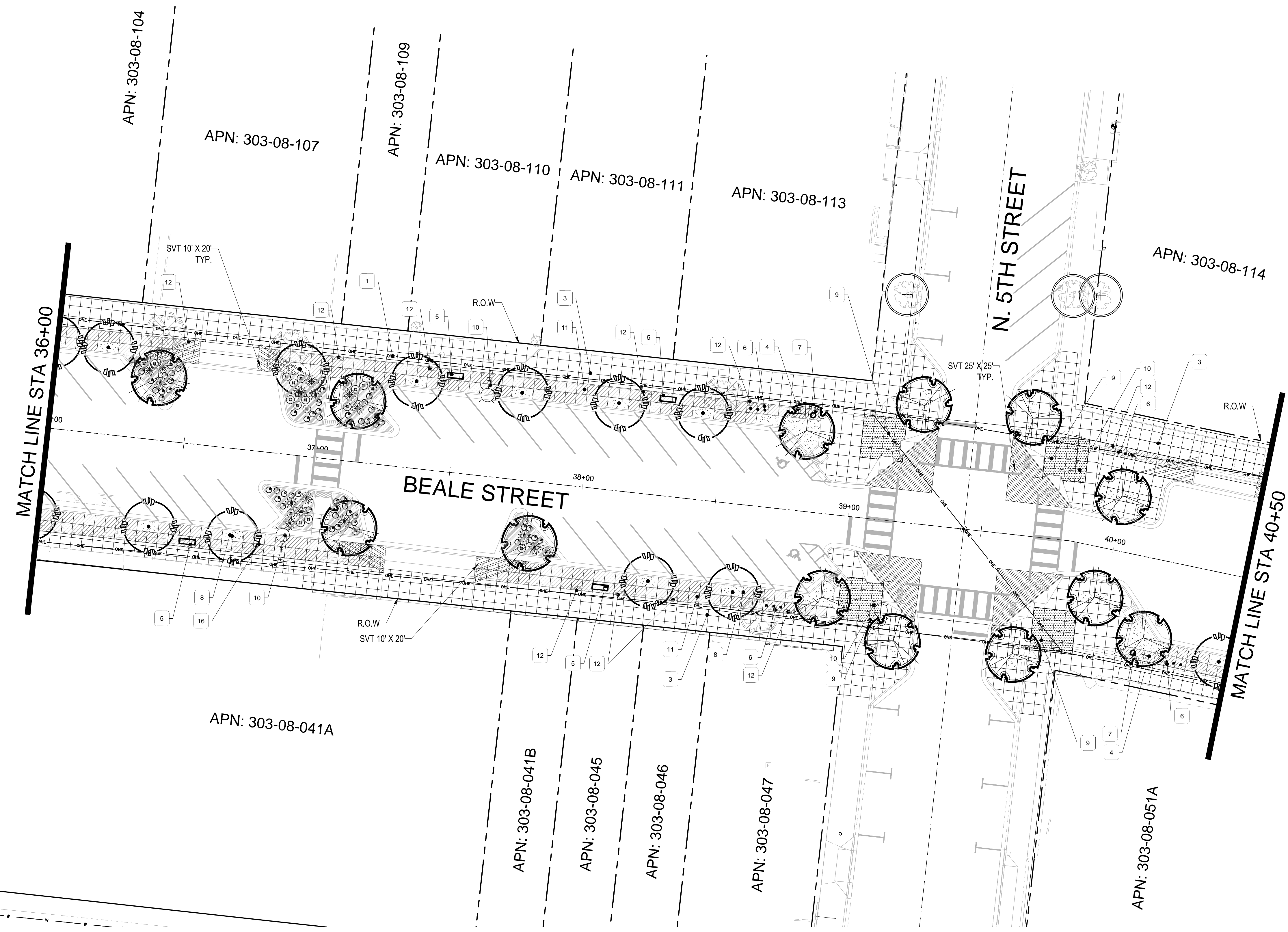
DRAWN BY:	BZS
CHECK BY:	JEH
PROJ. NO.:	2020-007
CASE NO.:	17-2597



LANDSCAPE PLAN
L1.2
41 of 52

ARIZONA BLUESTAKE CENTER
CALL TWO WORKING DAYS BEFORE YOU DIG
1.800.782.5348

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PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
Existing Tree to Remain - Protect in Place			3
Existing Tree to be Removed			7
Pistacia chinensis Chinese Pistache Caliper Size: 3"	36" Box H 12'-14' W 6'-8'	*ADWR	46
Ulmus parvifolia Evergreen Elm 'Allee' Caliper Size: 3"	36" Box H 10'-12' W 6'-8'	*ADWR	60
SHRUBS / ACCENTS			QTY
Bouteloua Gracilis Blue Grama 'Blonde Ambition'	5 Gallon can full	*ADWR	288
Euphorbia rigida Gopher Plant	5 Gallon can full	*ADWR	111
Dasyliroon wheeleri Desert Spoon	5 Gallon can full	*ADWR	57
LANDSCAPE MATERIALS			
Decomposed Granite, 3/4" minus, Mohave Gold, 2" deep in planting areas per plan.			4,210 S.F.
Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock No More Than 2" Above Grade, LID areas per plan, 8" layer.			5,920 S.F.

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant
** DG/Rip Rap color alternates acceptable with Owner approval

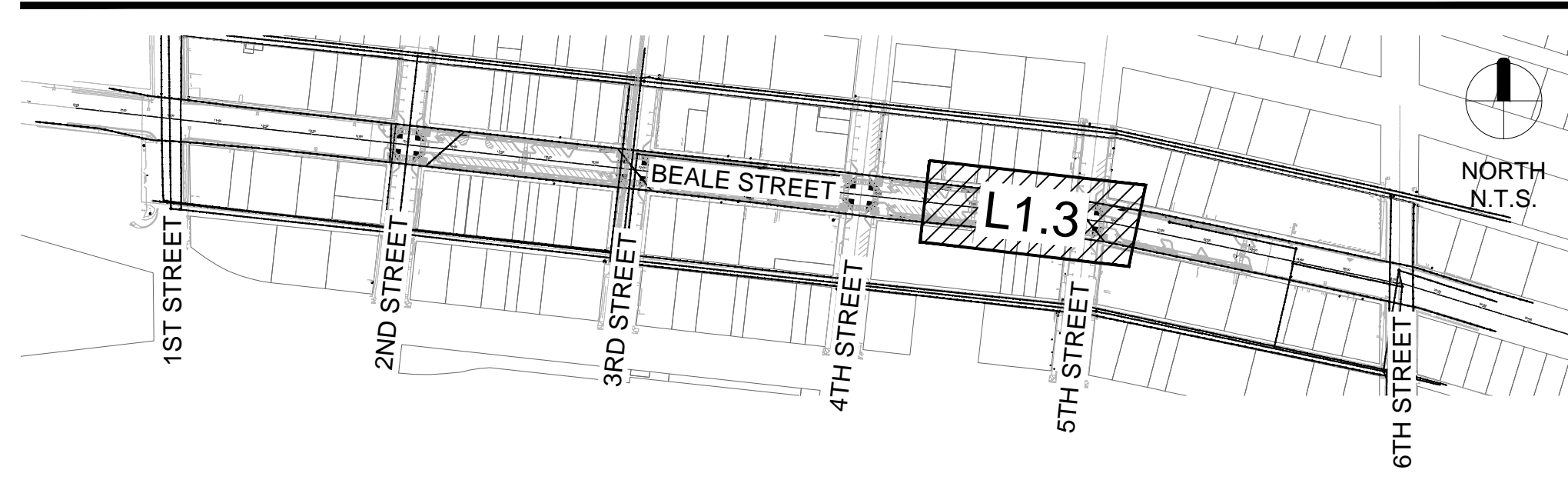
NOTES

- SEE CIVIL PLANS FOR REMOVALS AND PROTECTIONS.
- MATCH PROPOSED HARDSCAPE TO EXISTING.

KEYNOTE LEGEND

- KEY
- EX. UTILITY FACILITY, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
 - EX. FIRE HYDRANT, SEE CIVIL PLANS FOR PROTECT IN PLACE OR RELOCATION INSTRUCTIONS
 - PEDESTRIAN SIDEWALK ZONE - CONCRETE, 4' X 4' SCORE PATTERN, STANDARD CONCRETE, MEDIUM BROOM FINISH
 - NEW WAYFINDING SIGN, SEE DET.
 - SITE FURNISHING - BENCH, 6'-0" MAPLE BENCH LASER CUT BACKREST BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
 - SITE FURNISHING - BIKE RACK, MADRAX PIERCE SERIES POST, SEE DET., FINISH BLACK, SURFACE MOUNT
 - SITE FURNISHING - TRASH RECEPTACLE, OAK RECEPTACLE LASER CUT LOGO BY PREMIER SITE FURNITURE, SEE DET., FINISH BLACK, SURFACE MOUNT
 - LANDSCAPE AREA, SEE LS LEGEND FOR DG SIZE & COLOR
 - INTERSECTION NODE PAVEMENT, EXPOSED AGGREGATE PAVEMENT, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
 - NEW LIGHTING, SEE ELECTRICAL PLANS
 - STAINED CONCRETE, 4'X4' SCORE PATTERN, MEDIUM BROOM FINISH, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
 - STORY TELLING NODE - 16"X48", HISTORICAL PAVEMENT, MATERIAL PROVIDED BY CITY OF KINGMAN, SAND SET

KEY MAP



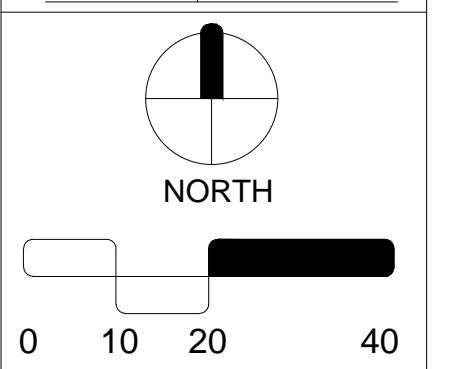
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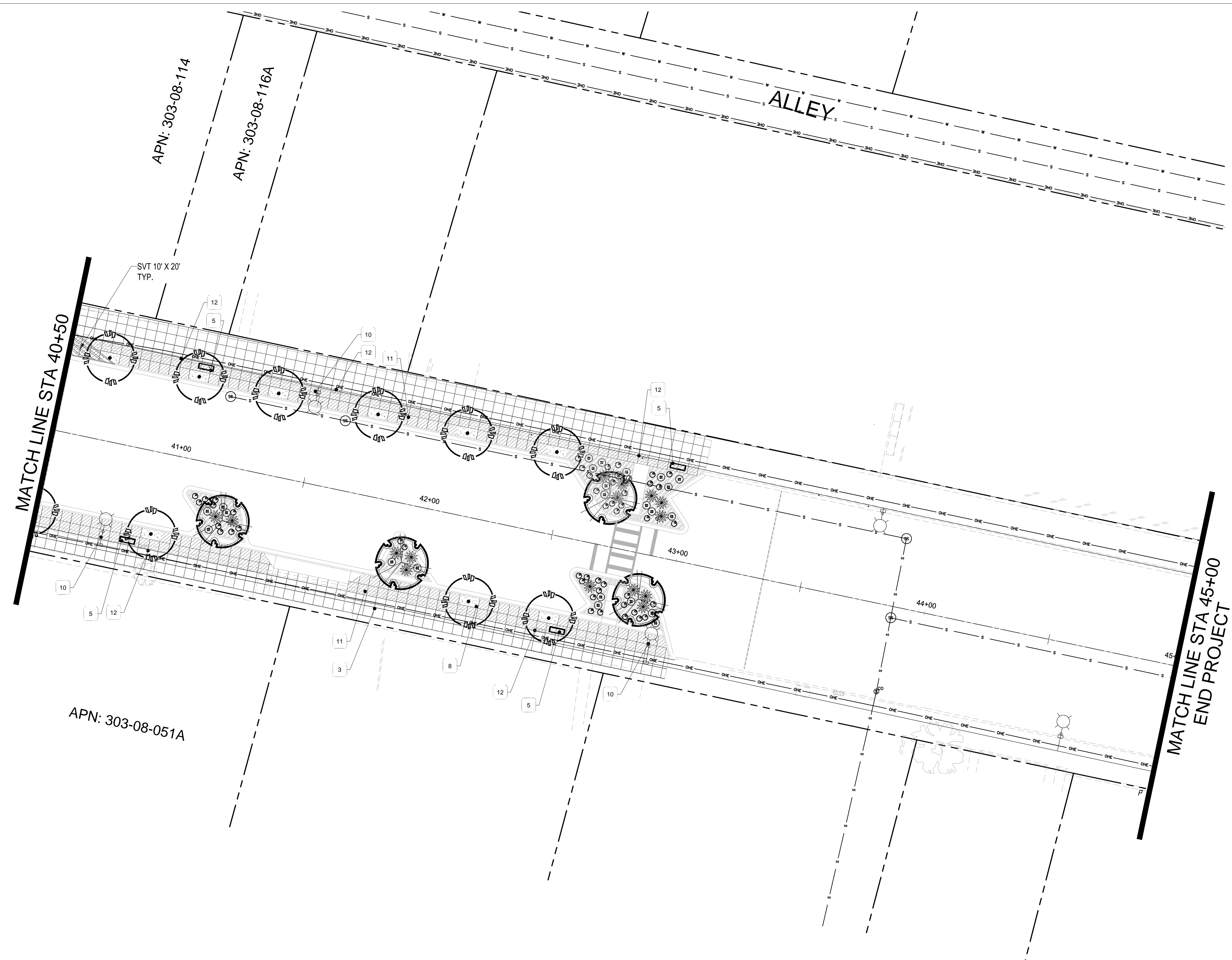
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June 6, 2023
DRAWN BY: BZS
CHECK BY: JEH
PROJ. NO.: 2020-007
CASE NO.: 17-2597



LANDSCAPE PLAN
L1.3
42 of 52

ARIZONA BLUESTAKE CENTER
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PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
		Existing Tree to Remain - Protect in Place	3
		Existing Tree to be Removed	7
	36" Box	Pistacia chinensis	46
	H 12'-14' W 6'-8'	Chinese Pistache Caliper Size: 3"	*ADWR
	36" Box	Ulmus parvifolia	60
	H 10'-12' W 6'-8'	Evergreen Elm 'Allee' Caliper Size: 3"	*ADWR
SHRUBS / ACCENTS			QTY
	5 Gallon	Bouteloua Gracilis	288
	can full	Blue Grama 'Blonde Ambition'	*ADWR
	5 Gallon	Euphorbia rigida	111
	can full	Gopher Plant	*ADWR
	5 Gallon	Dasylirion wheeleri	57
	can full	Desert Spoon	*ADWR
LANDSCAPE MATERIALS			QTY
	3/4" minus, Mohave Gold, 2" deep in planting areas per plan.	Decomposed Granite	4,210 S.F.
	1.0"-4.0" Cobble Rock	Beatty Apache Gold Rip Rap 1.0"-4.0" Cobble Rock	5,920 S.F.
			No More Than 2" Above Grade, LID areas per plan, 8" layer.

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant
 ** DG/Rip Rap color alternates acceptable with Owner approval

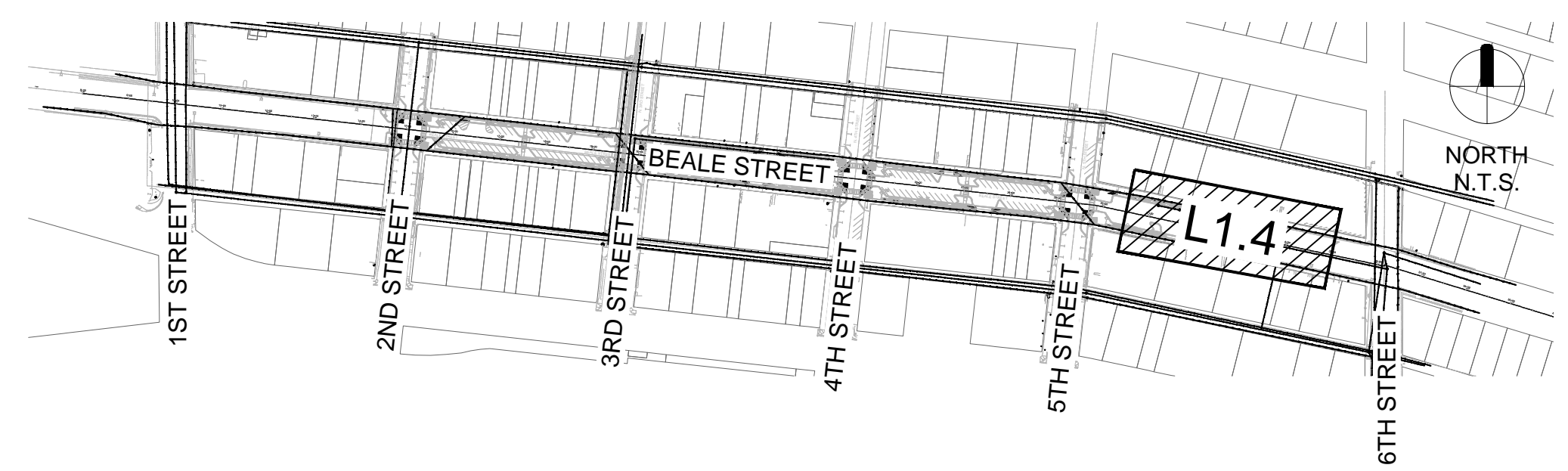
NOTES

- SEE CIVIL PLANS FOR REMOVALS AND PROTECTIONS.

KEYNOTE LEGEND

- KEY
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 - INTERSECTION NODE PAVEMENT, EXPOSED AGGREGATE PAVEMENT, SOLOMON COLOR - 489 DARKER REDWOOD, OR APPROVED FINISH
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 - STORY TELLING NODE - 16"X48", HISTORICAL PAVEMENT, MATERIAL PROVIDED BY CITY OF KINGMAN, SAND SET

KEY MAP



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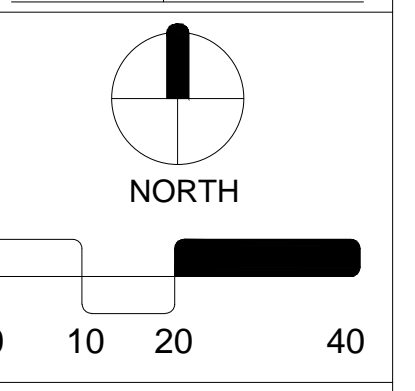
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LANDSCAPE PACKAGE

June 6, 2023

DRAWN BY: BZS
 CHECK BY: JEH
 PROJ. NO.: 2020-007
 CASE NO.: 17-2597



LANDSCAPE PLAN

L1.4

43 of 52

ARIZONA BLUESTAKE
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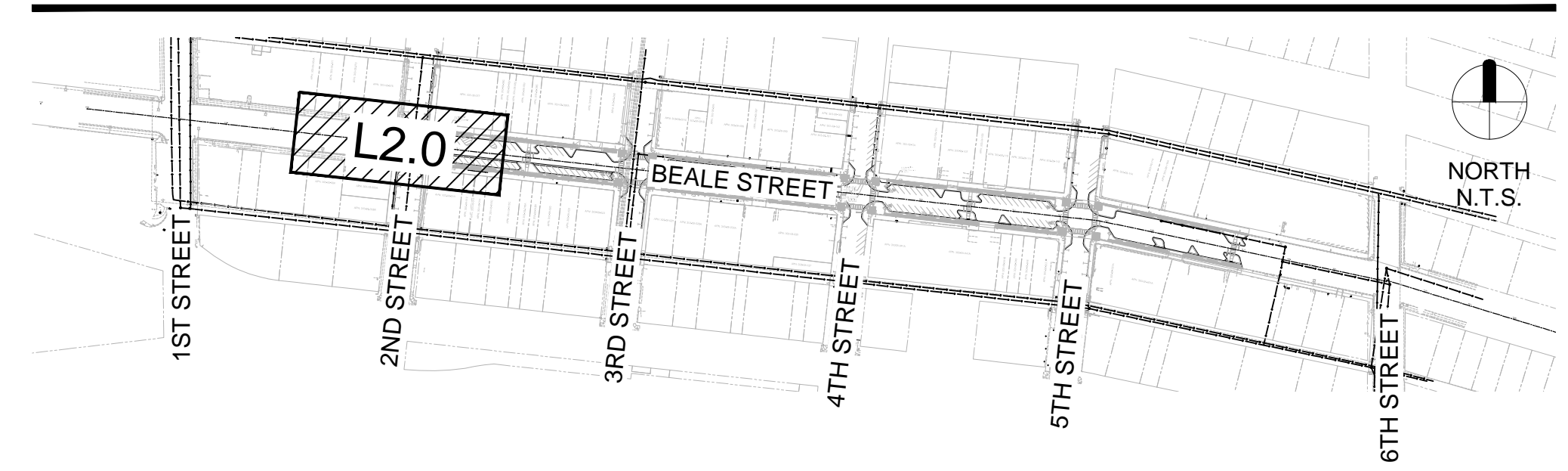


IRRIGATION LEGEND

- SYMBOL
- WATER METER PER LOCAL STANDARDS, NEW IRRIGATION METER - 1.0" SIZE
 - RPBFA BACKFLOW PREVENTER ASSEMBLY, FEBCO 825-Y, 1.0" SIZE PER PLAN, PROVIDE METAL ENCLOSURE.
 - CONTROLLER CONTROLLER A+B = 12 STATION HUNTER XC SOLAR, PROVIDE LEMA 1600 HE SOLENOID ACTUATOR FOR EACH VALVE, STEEL POST MOUNT AND LOCKING ENCLOSURE, PROVIDE LIGHTNING AND GROUNDING PROTECTION
 - CONTROL VALVE HUNTER SERIES ICV SIZE PER PLAN
 - FLOW SENSOR DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION, 1" SIZE.
 - GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
 - DRIP VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
 - FLUSH CAP SPEARS FLUSH CAP
 - PRESSURE REG. SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
 - EMITTER - SP BOWSMITH 1.0 GPH (1 PER PLANT)
 - EMITTER - MP BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'.
 - SERVICE POINT CONNECT TO EXISTING POTABLE WATER SERVICE

- PIPE LEGEND
- MAINLINE - SIZE PER PLAN PVC SCH. 40
 - TREE LATERAL PVC SCH. 40 - SOLVENT WELD
 - SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
 - WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
 - PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

KEY MAP



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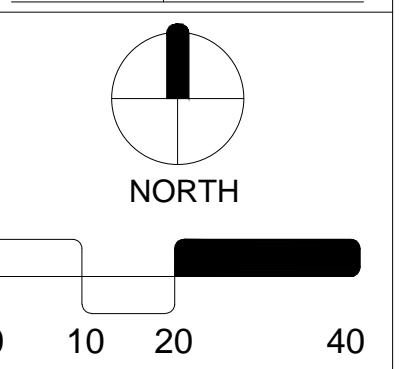
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LANDSCAPE PACKAGE

June 6, 2023

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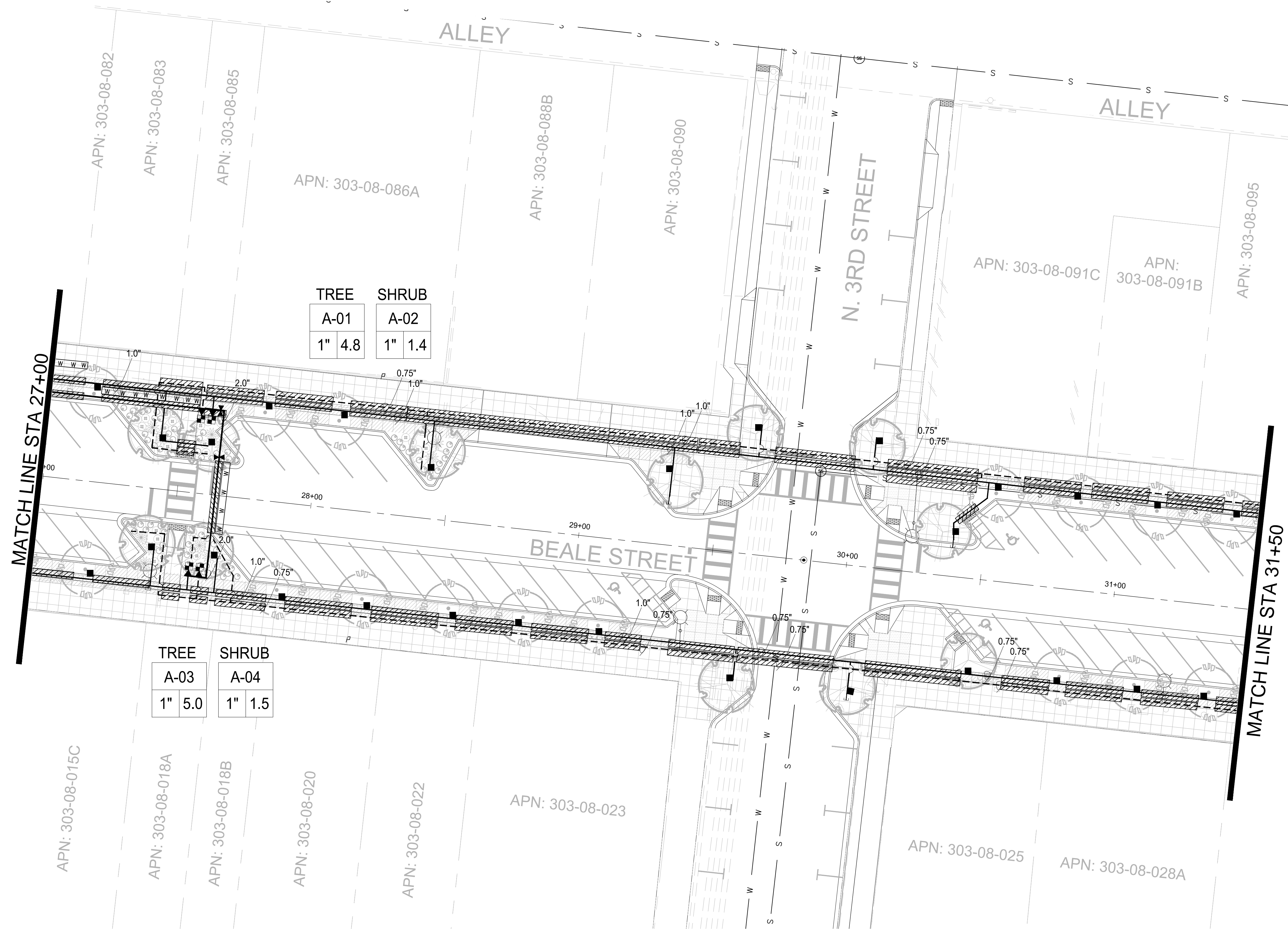
IRRIGATION PLAN

L2.0

44 of 52

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IRRIGATION LEGEND

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 - RPBFA BACKFLOW PREVENTER ASSEMBLY, FEBCO 825-Y, 1.0" SIZE PER PLAN, PROVIDE METAL ENCLOSURE.
 - CONTROLLER CONTROLLER A+B = 12 STATION HUNTER XC SOLAR. PROVIDE LEMA 1600 HE SOLENOID ACTUATOR FOR EACH VALVE, STEEL POST MOUNT AND LOCKING ENCLOSURE. PROVIDE LIGHTNING AND GROUNDING PROTECTION
 - CONTROL VALVE HUNTER SERIES ICV SIZE PER PLAN
 - FLOW SENSOR DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION. 1" SIZE.
 - GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
 - DRIP VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
 - FLUSH CAP SPEARS FLUSH CAP
 - PRESSURE REG. SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
 - EMITTER - SP BOWSMITH 1.0 GPH (1 PER PLANT)
 - EMITTER - MP BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'.
 - SERVICE POINT CONNECT TO EXISTING POTABLE WATER SERVICE

- PIPE LEGEND**
- MAINLINE - SIZE PER PLAN PVC SCH. 40
 - TREE LATERAL PVC SCH. 40 - SOLVENT WELD
 - SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
 - WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
 - PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

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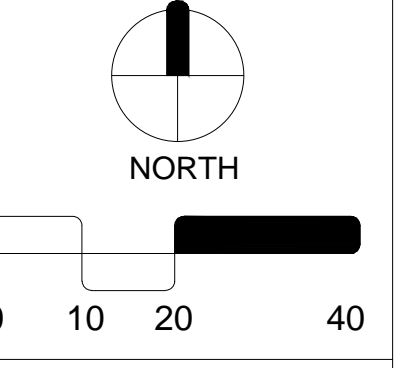
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June 6, 2023

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IRRIGATION PLAN

L2.1

45 of 52

KEY MAP

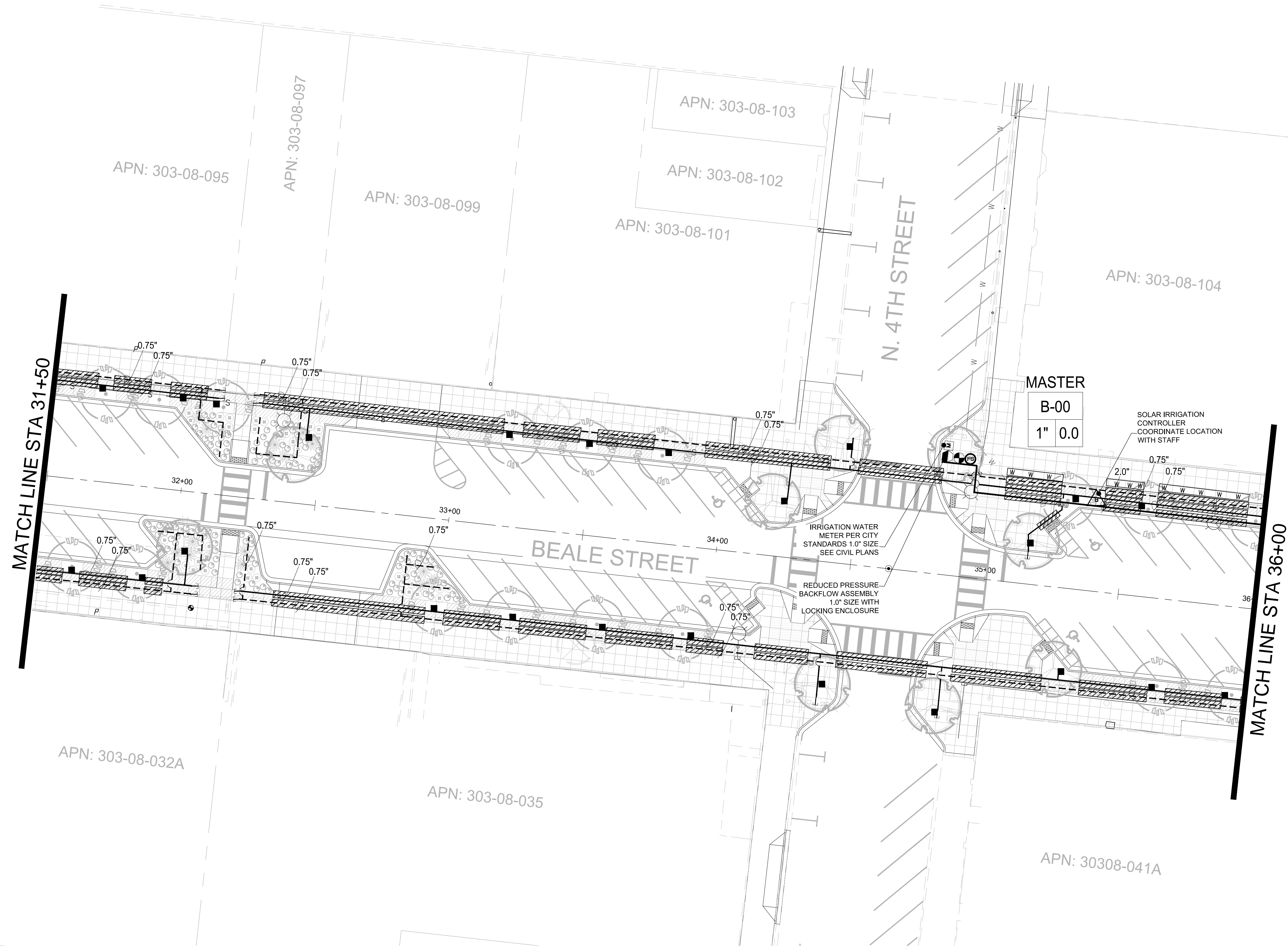


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IRRIGATION LEGEND

SYMBOL

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- CONTROLLER CONTROLLER A+B = 12 STATION HUNTER XC SOLAR. PROVIDE LEMA 1600 HE SOLENOID ACTUATOR FOR EACH VALVE, STEEL POST MOUNT AND LOCKING ENCLOSURE. PROVIDE LIGHTNING AND GROUNDING PROTECTION HUNTER SERIES ICV SIZE PER PLAN
- CONTROL VALVE HUNTER SERIES ICV SIZE PER PLAN
- FLOW SENSOR DATA INDUSTRIAL - BRASS, NTP THREADED CONNECTION. 1" SIZE.
- GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
- DRIP VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
- FLUSH CAP SPEARS FLUSH CAP
- PRESSURE REG. SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
- EMITTER - SP BOWSMITH 1.0 GPH (1 PER PLANT)
- EMITTER - MP BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'
- SERVICE POINT CONNECT TO EXISTING POTABLE WATER SERVICE

PIPE LEGEND

- MAINLINE - SIZE PER PLAN PVC SCH. 40
- TREE LATERAL PVC SCH. 40 - SOLVENT WELD
- SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
- WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
- PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

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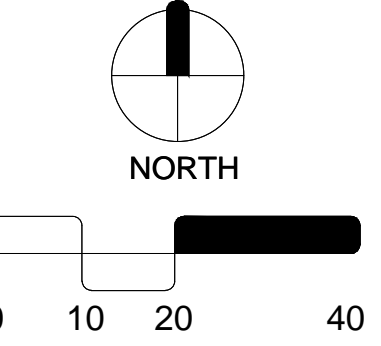
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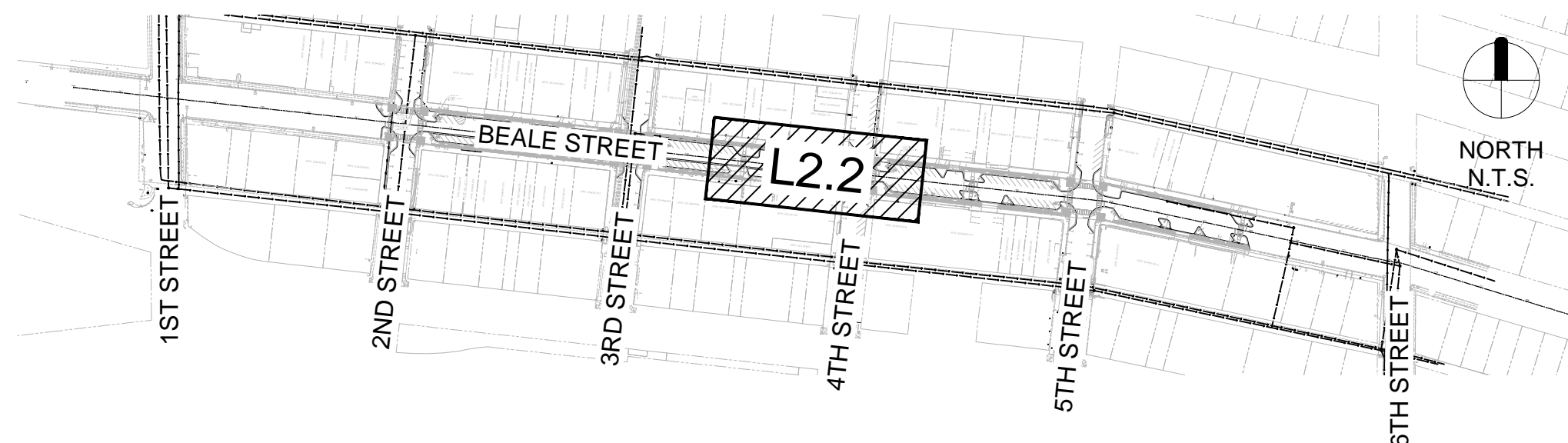


IRRIGATION PLAN

L2.2

46 of 52

KEY MAP

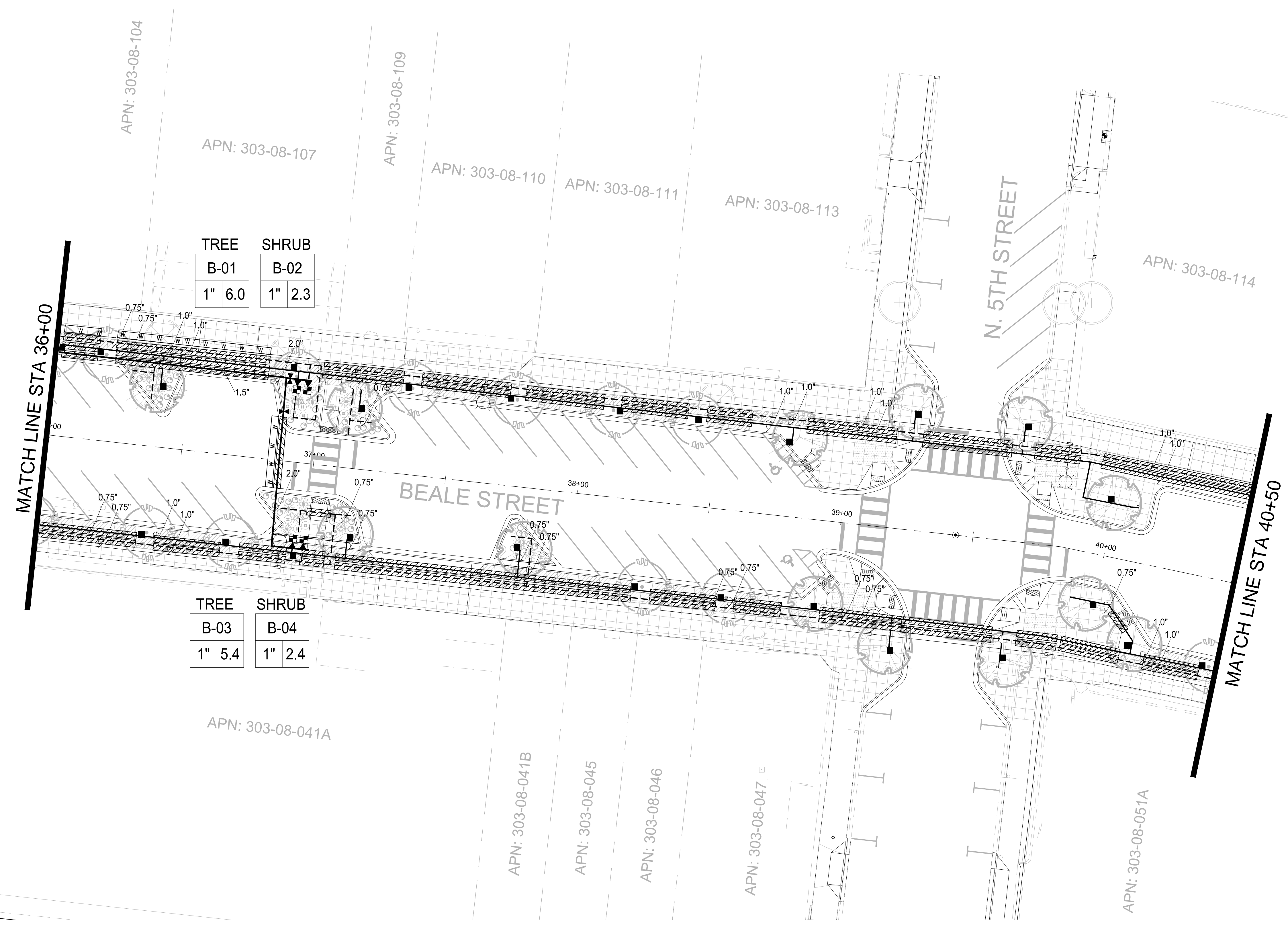


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TREE	SHRUB
B-01	B-02
1" 6.0	1" 2.3

TREE	SHRUB
B-03	B-04
1" 5.4	1" 2.4

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 - DRAIN VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
 - FLUSH CAP SPEARS FLUSH CAP
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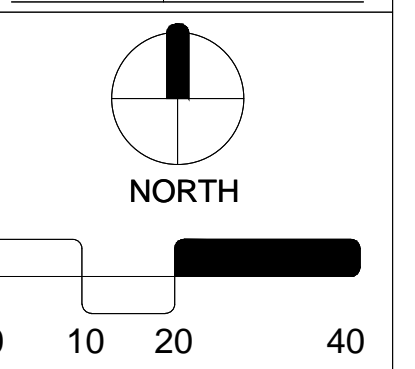
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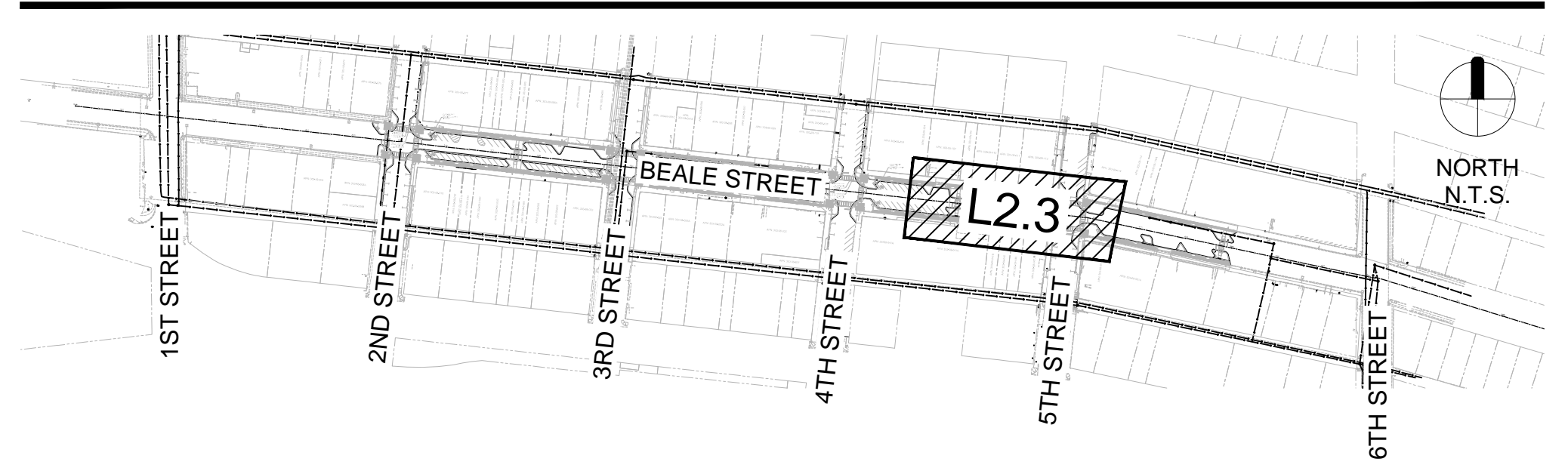


IRRIGATION PLAN

L2.3

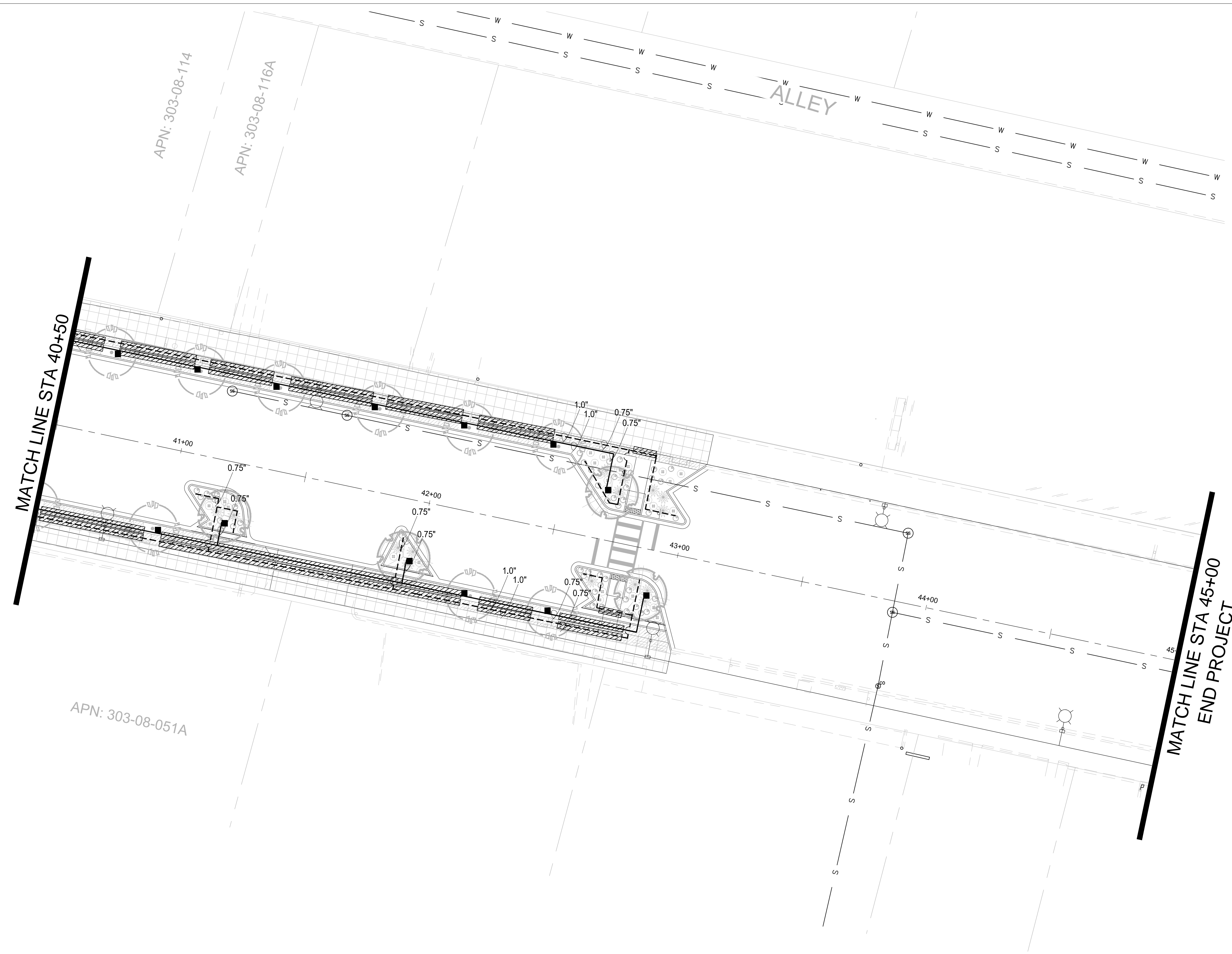
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KEY MAP



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 - CONTROL VALVE HUNTER SERIES ICV SIZE PER PLAN
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 - GATE VALVE NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
 - DRIP VALVE HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
 - FLUSH CAP SPEARS FLUSH CAP
 - PRESSURE REG. 1/2" FLUSH VALVE SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
 - EMITTER - SP BOWSMITH 1.0 GPH (1 PER PLANT)
 - EMITTER - MP BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'
 - SERVICE POINT CONNECT TO EXISTING POTABLE WATER SERVICE

- PIPE LEGEND
- MAINLINE - SIZE PER PLAN PVC SCH. 40
 - TREE LATERAL PVC SCH. 40 - SOLVENT WELD
 - SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
 - WIRE SLEEVE PVC SCH. 40 - MINIMUM 1 1/2" SIZE
 - PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

H P
+ D

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CITY OF KINGMAN
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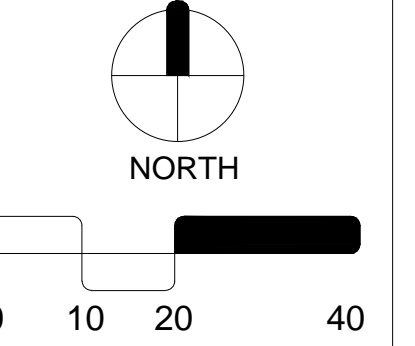
Beale Street
Kingman, Arizona 86401

REV.	COMMENT	DATE
100% Submittal VE		06.06.23
100% Submittal		01.18.23
90% Submittal R1		12.05.22
90% Submittal		03.04.22
60% Submittal		08.06.21
30% Submittal		04.12.21
ISSUE		DATE

LANDSCAPE PACKAGE

June 6, 2023

DRAWN BY: BZS
CHECK BY: JEH
PROJ. NO.: 2020-007
CASE NO.: 17-2597

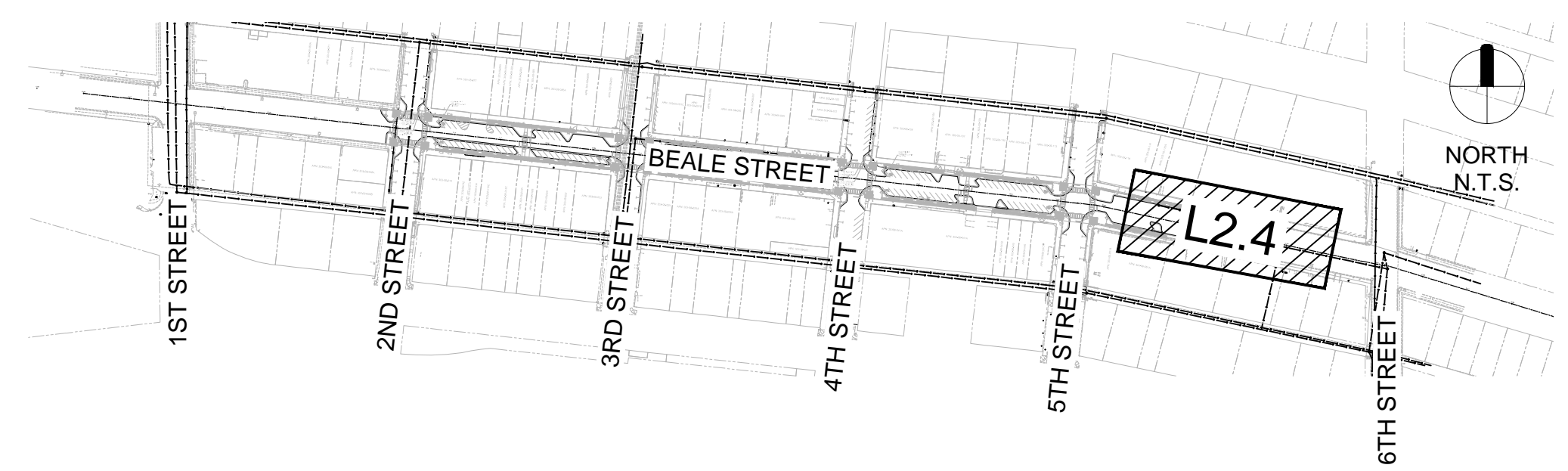


IRRIGATION PLAN

L2.4

48 of 52

KEY MAP



**ARIZONA BLUESTAKE
CENTER**

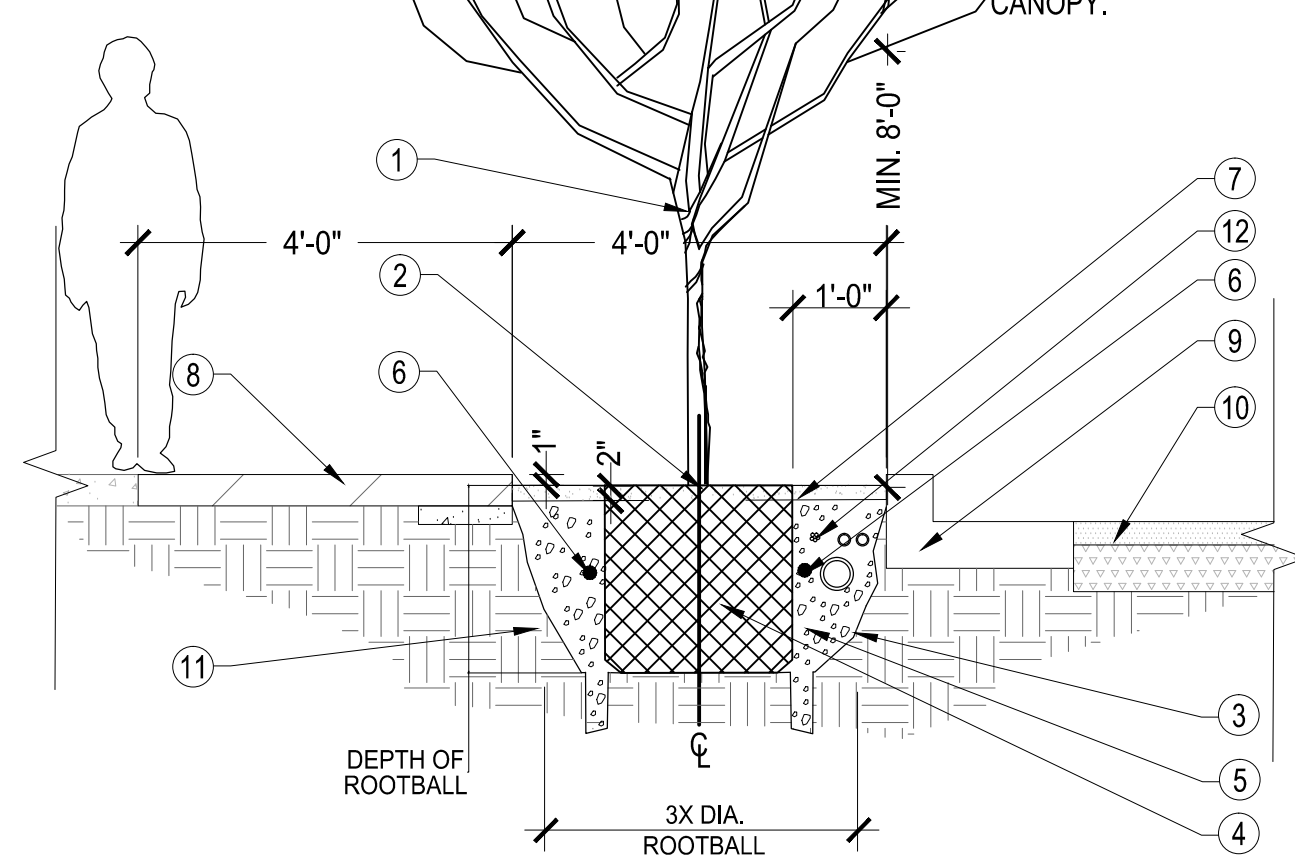
CALL TWO WORKING DAYS
BEFORE YOU DIG

1.800.782.5348

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FERTILIZER TABLET SCHEDULE

AGRIFORM FERTILIZER TABLETS OR EQUAL. PLACE TABLETS DOWN ALONG PLANT ROOTBALL SIDE 3 PER 15 GAL., 4 PER 24" BOX OR LARGER



NOTES:

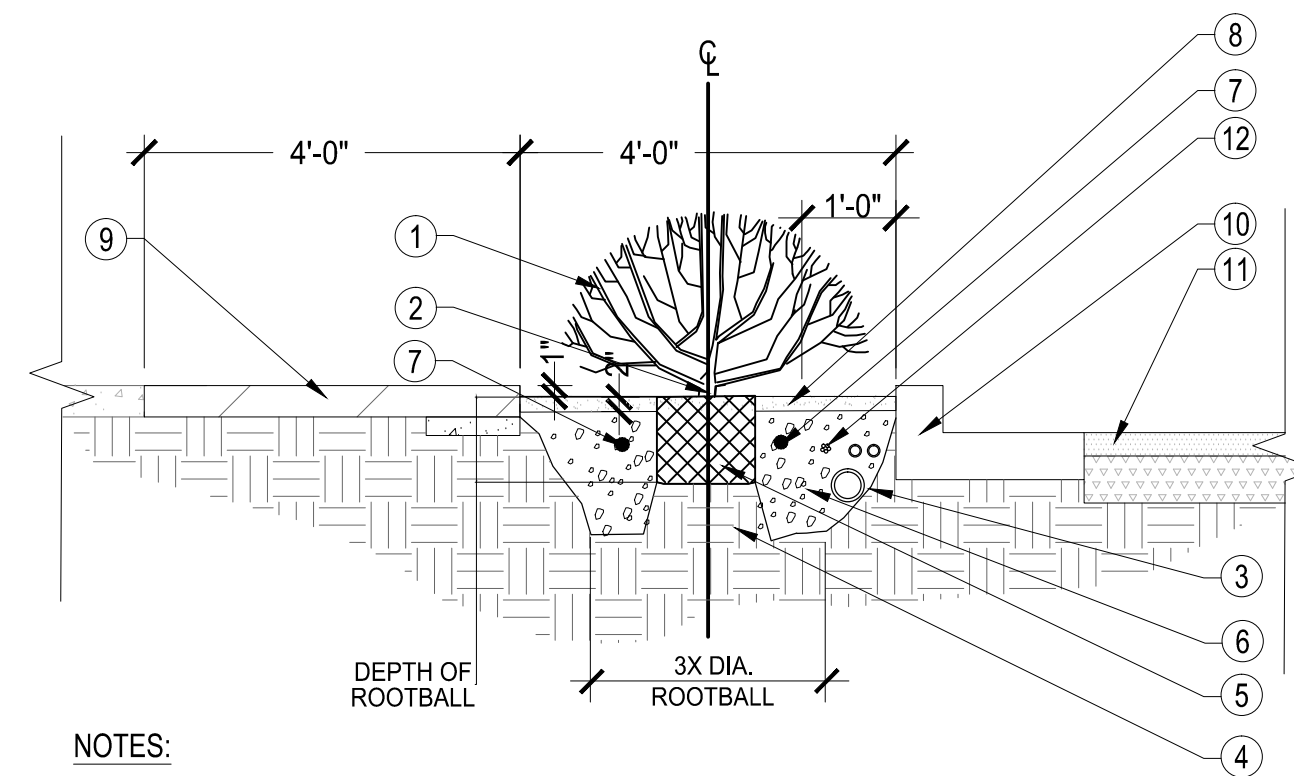
1. PROVIDE ADEQUATE DRAINAGE.
2. TRIM AND MAINTAIN TO PROVIDE A MINIMUM 8'-0" CLEARANCE FROM ADJACENT PATH OR PAVEMENT TO TREE CANOPY.
3. TREE. SEE LANDSCAPE LEGEND.
4. TOP OF ROOTBALL FLUSH OR SLIGHTLY ABOVE FINISH GRADE.
5. WALLS OF UNDISTURBED SOIL SHOULD BE SLOPED WITH ROUGH EDGES. PLANTING PIT TO BE AS DEEP AS ROOTS.
6. FREE OR CUT CIRCLING ROOTS (UNLESS PLANTS ARE KNOWN TO HAVE SENSITIVE ROOTS HANDLE WITH MINIMAL DISTURBANCE).
7. BACKFILL: NATIVE SOIL IF NONE DESCRIBED. REMOVE ALL ROCK 1" OR GREATER FROM BACKFILL.
8. FERTILIZER TABLET. REFER TO FERTILIZER TABLET SCHEDULE.
9. INERT DECOMPOSED GRANITE (DG). SEE LANDSCAPE LEGEND.
10. STAINED CONCRETE SIDEWALK PER PLAN.
11. CURB AND GUTTER. SEE CIVIL PLANS.
12. ROAD ASPHALT SURFACE, SEE CIVIL PLANS.
13. NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
14. IRRIGATION PIPES & WIRES PLACEMENT, SEE TRENCHING DETAIL.

1 TREE PLANTING

SCALE: N.T.S.

FERTILIZER TABLET SCHEDULE

AGRIFORM FERTILIZER TABLETS OR EQUAL. PLACE TABLETS DOWN ALONG PLANT ROOTBALL SIDE 1 PER 1 GAL., 2 PER 5 GAL.,

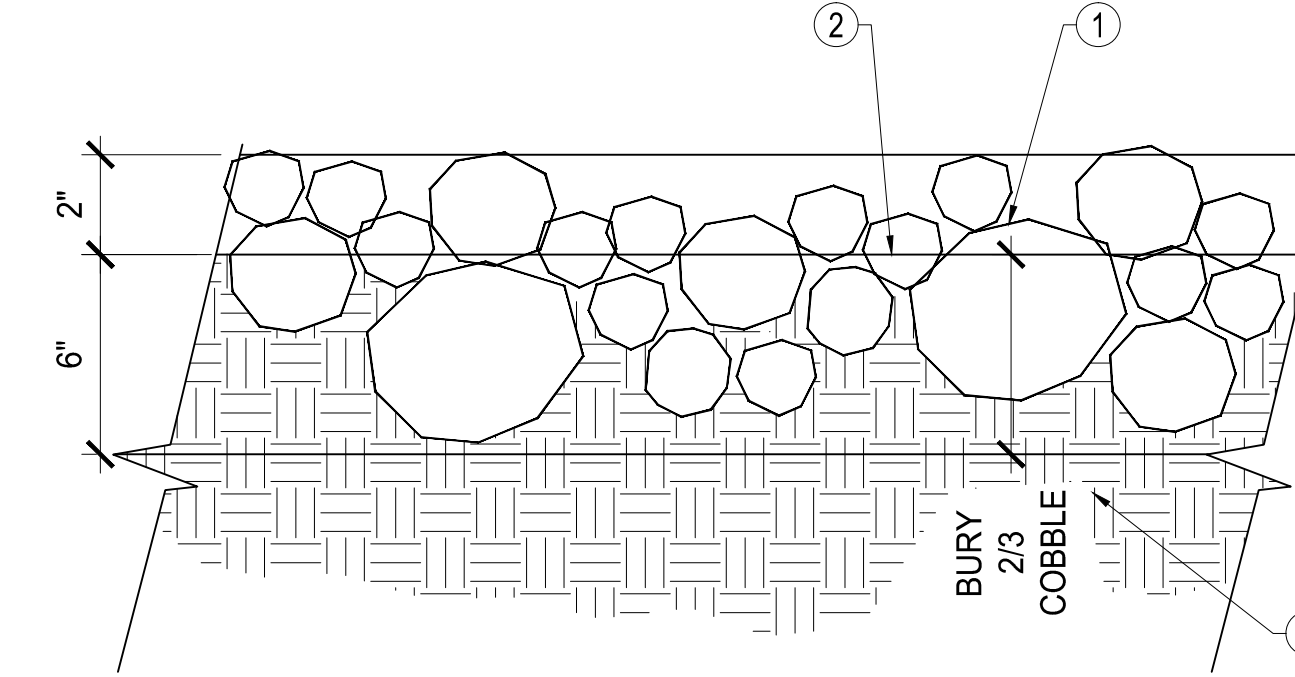


NOTES:

1. PROVIDE ADEQUATE DRAINAGE.

2 SHRUB, GROUND COVER & ACCENT PLANTING - CONTAINER

SCALE: N.T.S.

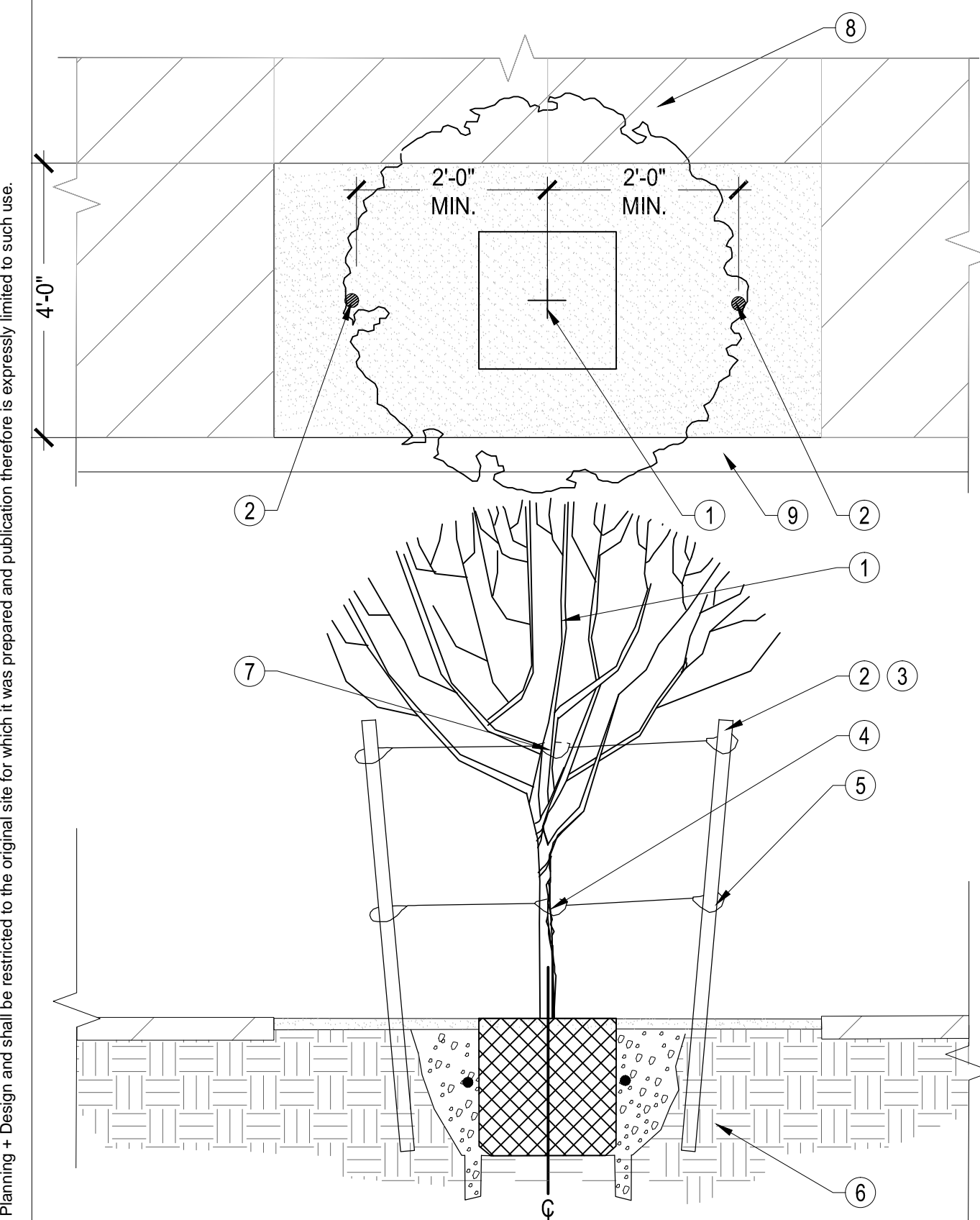


NOTES:

1. COORDINATE FINAL GRADES WITH LANDSCAPE ARCHITECT AND PER PLANS.
2. BURY 2/3 COBBLE. ALLOW NO MORE THAN 4" EXPOSED ABOVE GRADE.
3. WET COBBLE AFTER INSTALL TO REMOVE DUST AND SETTLE ROCK.
4. REAPPLY COBBLE TO AREAS THAT SETTLE.
5. APPLY POST EMERGENT WEED CONTROL AFTER LANDSCAPE INSTALL COMPLETED.

3 1" - 4" COBBLE ROCK INSTALLATION

SCALE: N.T.S.



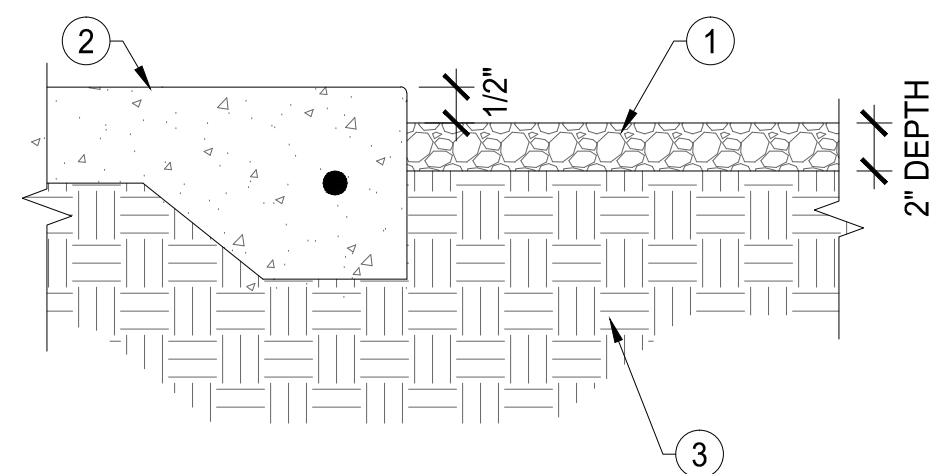
1. TREE PLANTING, SEE DETAIL.
2. 2" DIA. LODGEPOLE OR 2" SQ. STAKES DRIVEN VERTICALLY OR SLIGHT ANGLE IN UNDISTURBED SOIL. 8' TALL FOR #15 GAL. SIZE, 10' TALL FOR 24" BOX OR LARGER NOTCH EACH STAKE WITH 3/4" CUT TO SECURE WIRE AT.
3. PLACE OR CUT STAKES OFF BELOW THE CANOPY TO PREVENT DAMAGE TO BRANCHES.
4. PLACE HOSE AND WIRE 6" ABOVE STRESS POINT OF TREE. NOTCH BACKSIDE OF POLY. USE 1/2" I.D. RUBBER HOSE 12"-15" LONG MIN. OR NYLON STRAP MATERIAL.
5. #12 PLASTIC GUY WIRE WRAP TWICE AROUND STAKE AND SECURE.
6. NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
7. PLACE HOSE AND WIRE 12" ABOVE SCAFFOLDING BRANCH. USE 1/2" I.D. RUBBER HOSE 12"-15" LONG MIN. OR NYLON STRAP MATERIAL.
8. STAINED CONCRETE SIDEWALK PER PLAN.
9. CURB AND GUTTER, SEE CIVIL PLANS.

NOTES:

1. DO NOT DISTURB IRRIGATION SYSTEM AND OTHER UTILITY WIRE/PIPE DURING STAKING.

4 TREE STAKING DETAIL - 2 TIES

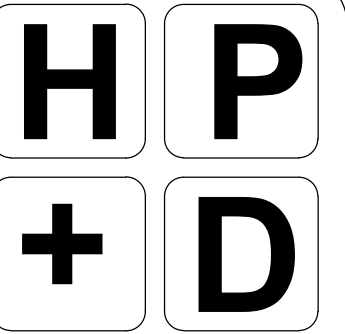
SCALE: N.T.S.



1. DECOMPOSED GRANITE PER PLANTING LEGEND.
2. CONCRETE CURB OR WALK.
3. ENSURE PLANTING AREAS ARE FREE OF DEBRIS AND WEEDS. COMPACT TO 85% PROCTOR DENSITY. PRE-TREAT FINISH GRADED LANDSCAPE AREAS WITH PRE-EMERGENT CHEMICAL APPLICATION.

5 CONCRETE / GRANITE TRANSITION

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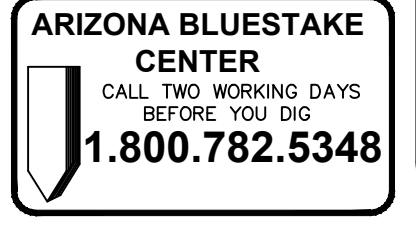
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LANDSCAPE PACKAGE

June 6, 2023
DRAWN BY: BZS
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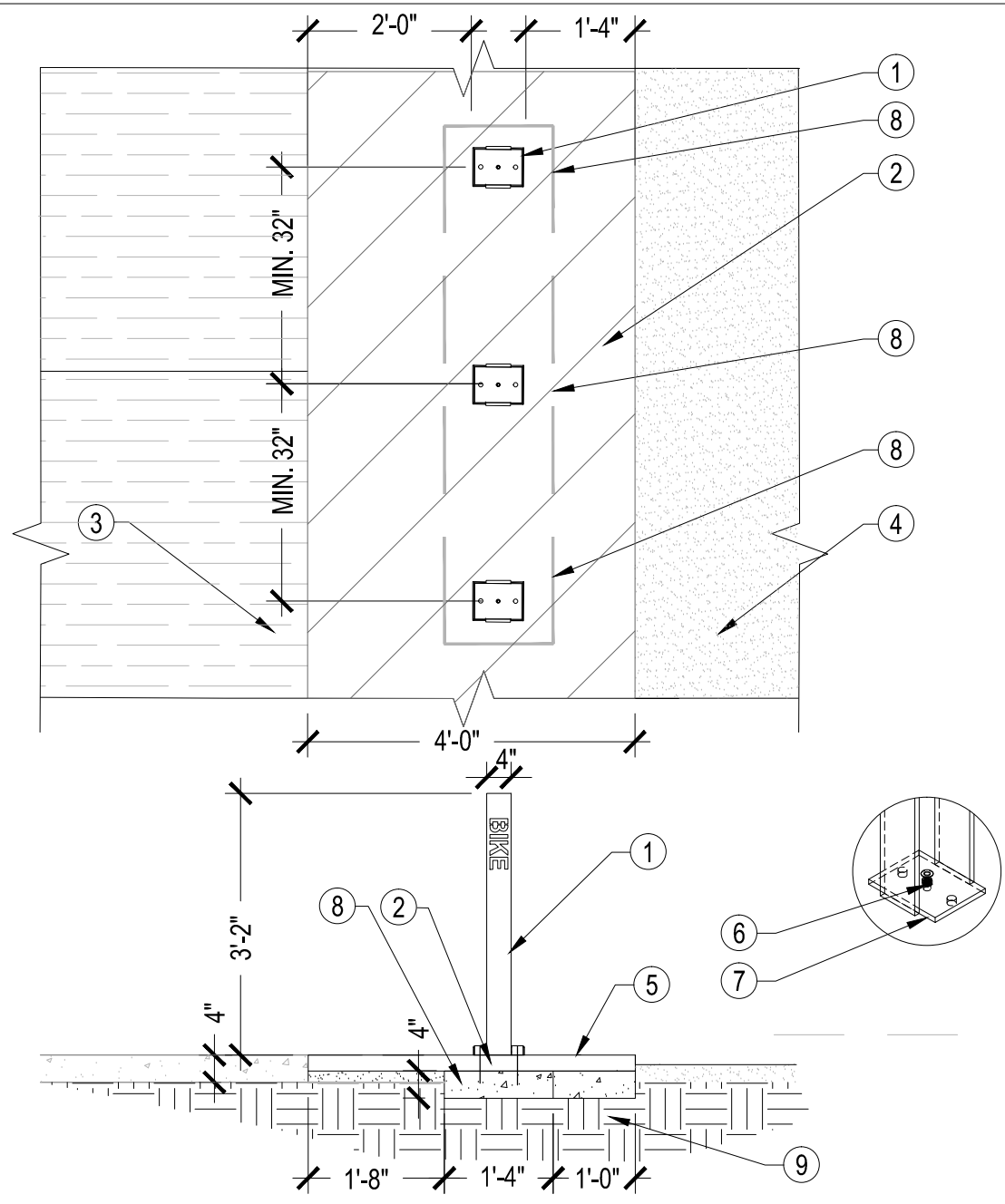
LANDSCAPE DETAILS

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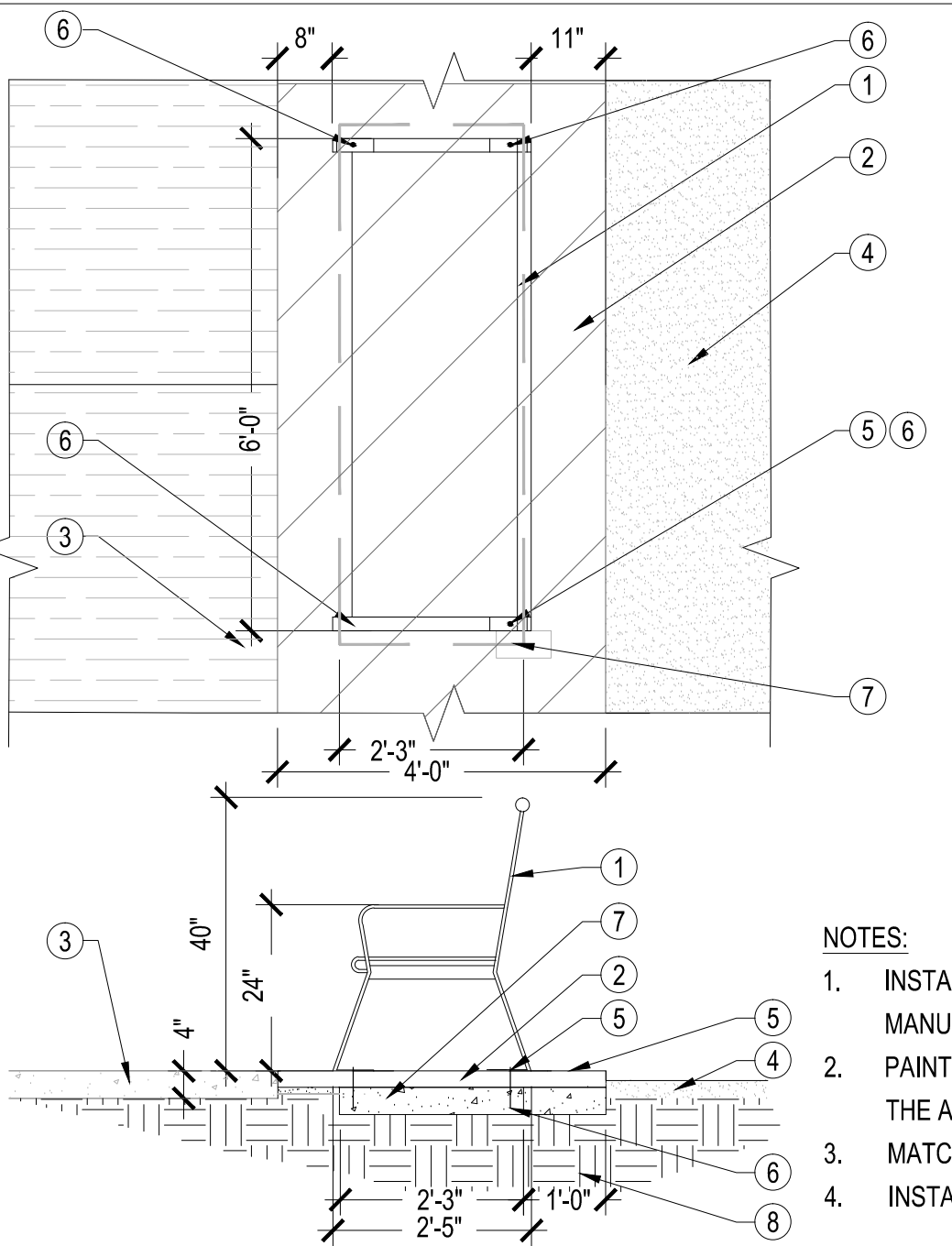
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- 1 MADRAX PIERCE BIKE RACK, MODEL # PBP-2-SF-P, POWDER COATED BLACK COLOR, LOGO TBD.
- 2 STAINED CONCRETE SIDEWALK, SEE DETAIL.
- 3 CONCRETE SIDEWALK, SEE DETAIL.
- 4 LANDSCAPE DG AREA.
- 5 FINISH GRADE.
- 6 THREADED HOLE TO SECURE COVER.
- 7 3/8" THICK MOUNTING PLATE.
- 8 CONCRETE MOUNTING SLAB.
- 9 COMPACTED SUB-GRADE PER MAG SECTION 301 & GEOTECH REPORT.

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. PAINT ALL THE ASSEMBLY TO MATCH BENCH FINISH COLOR. ALL THE ASSEMBLY SHALL BE VANDAL RESISTANT.
 3. MATCH THE HOLE PATTERN FOR MOUNTING DURING CONSTRUCTION.
 4. INSTALL LEVEL WITH FINISH GRADE FOR BIKE RACK INSTALLATION.
 5. THREE BIKE RACK FOR EACH LOCATION.

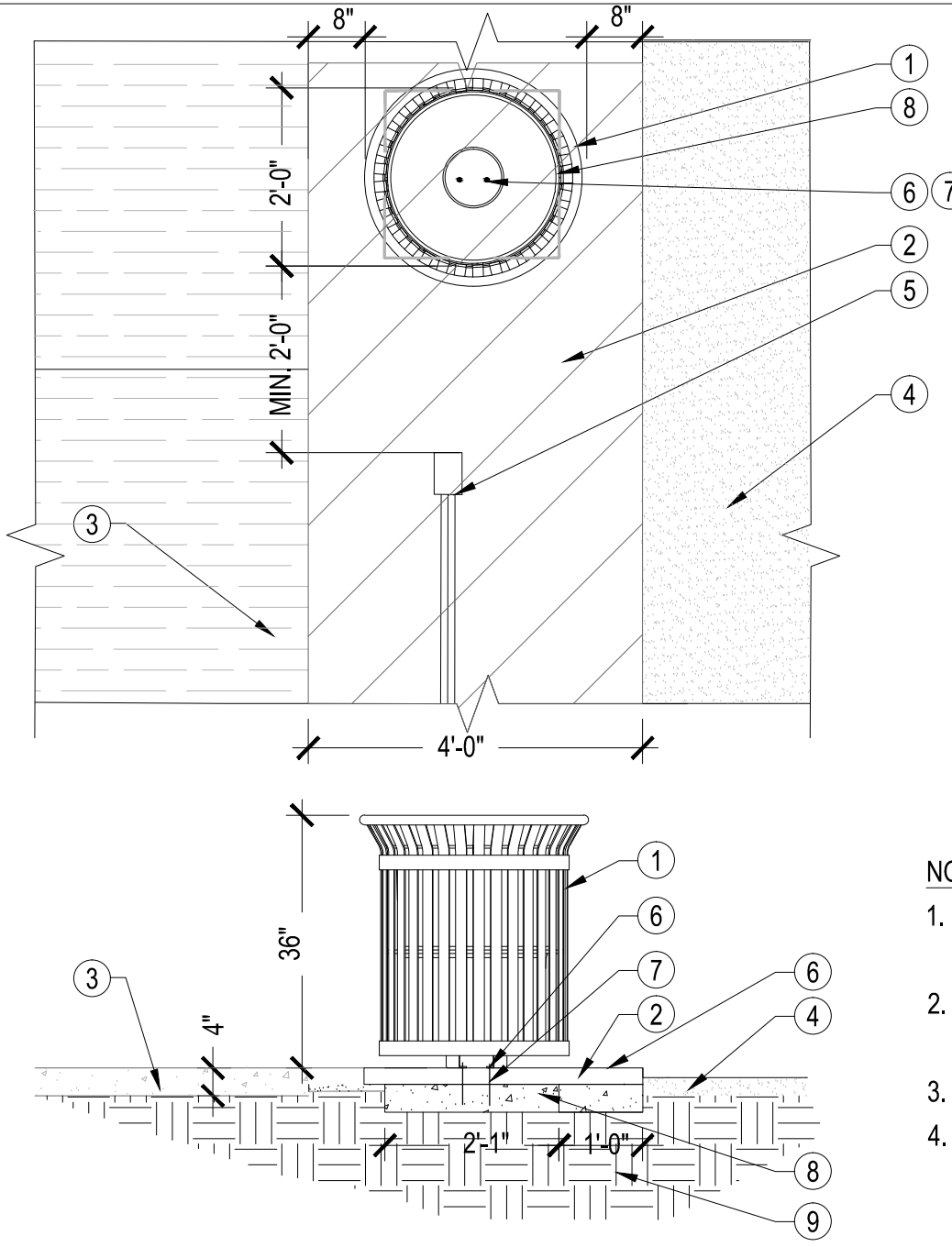
1 BIKE RACK - INSTALLATION
SCALE: N.T.S.



- 1 PREMIER MAPLE BENCH MMR00RB, WITH ROUTE 66 LOGO, FACING STORES. MATCH THE LOGO FROM THE IMAGE OR CONTACT THE CITY FOR THE LOGO INFO, POWDER COATED BLACK COLOR.
- 2 STAINED CONCRETE SIDEWALK.
- 3 CONCRETE SIDEWALK.
- 4 LANDSCAPE DG AREA.
- 5 FINISH GRADE.
- 6 TOTAL 4 X WEDGE ANCHERS - 5/16" X 4 3/4", 5/16" FLAT WASHERS AND 5/16" HEX NUTS.
- 7 CONCRETE MOUNTING SLAB.
- 8 COMPACTED SUB-GRADE PER MAG SECTION 301 & GEOTECH REPORT.

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. PAINT ALL THE ASSEMBLY TO MATCH BENCH FINISH COLOR. ALL THE ASSEMBLY SHALL BE VANDAL RESISTANT.
 3. MATCH THE HOLE PATTERN DURING CONSTRUCTION.
 4. INSTALL LEVEL WITH FINISH GRADE FOR BENCH INSTALLATION.

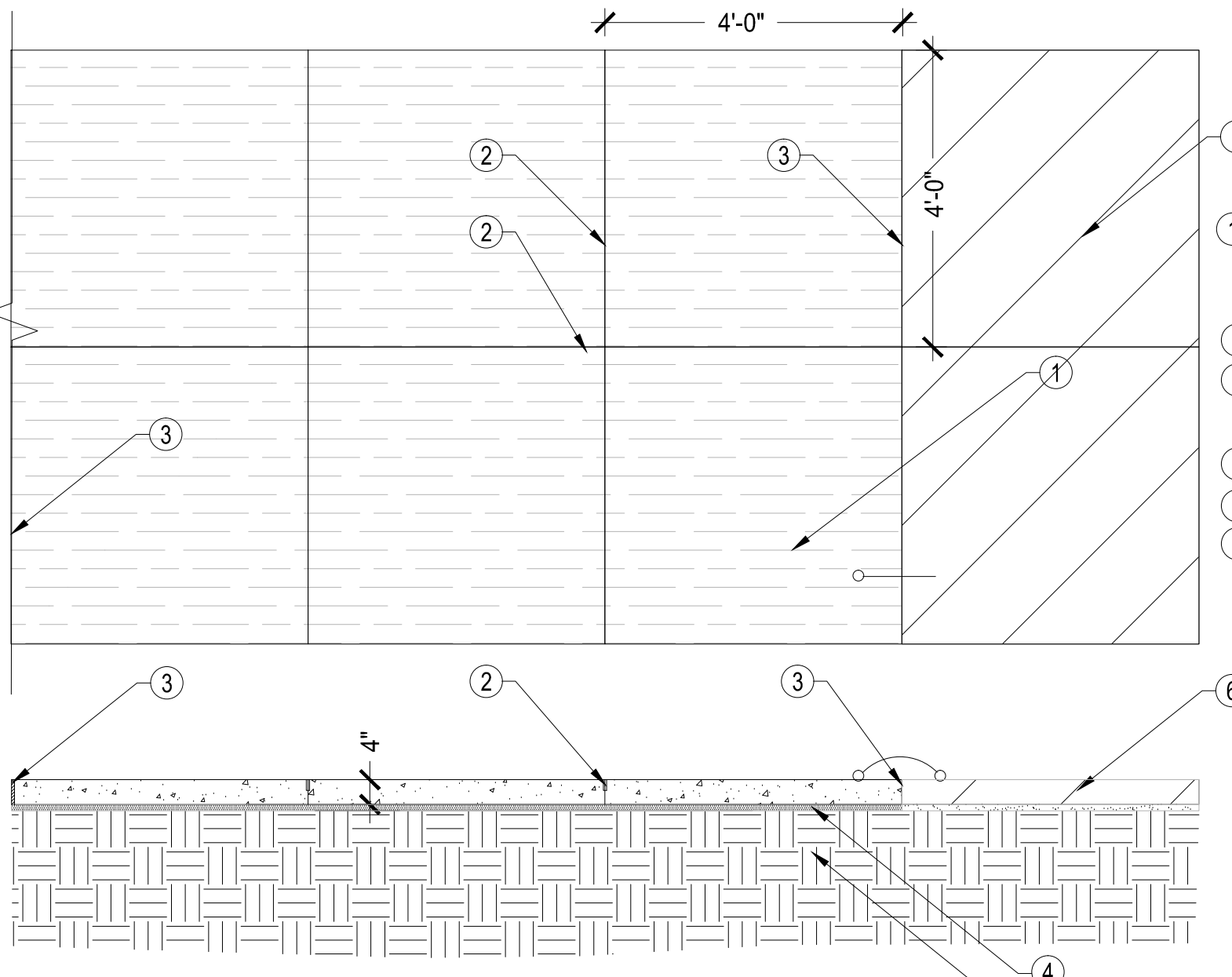
2 BENCH - INSTALLATION
SCALE: N.T.S.



- 1 PREMIER OAK RECEPTACLE 0132 WITH LID WITH ROUTE 66 LOGO, FACING STORES. MATCH THE LOGO FROM THE IMAGE OR CONTACT THE CITY FOR THE LOGO INFO. PROVIDE BAG AFTER INSTALLATION. POWDER COATED BLACK COLOR.
- 2 STAINED CONCRETE SIDEWALK.
- 3 CONCRETE SIDEWALK.
- 4 LANDSCAPE DG AREA.
- 5 WAYFINDING SIGN, SEE DETAIL.
- 6 FINISH GRADE.
- 7 TOTAL TWO 3/8" X 4" WEDGE ANCHORS, NUTS, AND WASHERS.
- 8 CONCRETE MOUNTING SLAB.
- 9 COMPACTED SUB-GRADE PER MAG SECTION 301 & GEOTECH REPORT.

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. PAINT ALL THE ASSEMBLY TO MATCH TRASH RECEPTACLE FINISH COLOR. ALL THE ASSEMBLY SHALL BE VANDAL RESISTANT.
 3. MATCH THE HOLE PATTERN FOR MOUNTING DURING CONSTRUCTION.
 4. INSTALL LEVEL WITH FINISH GRADE FOR THE INSTALLATION.

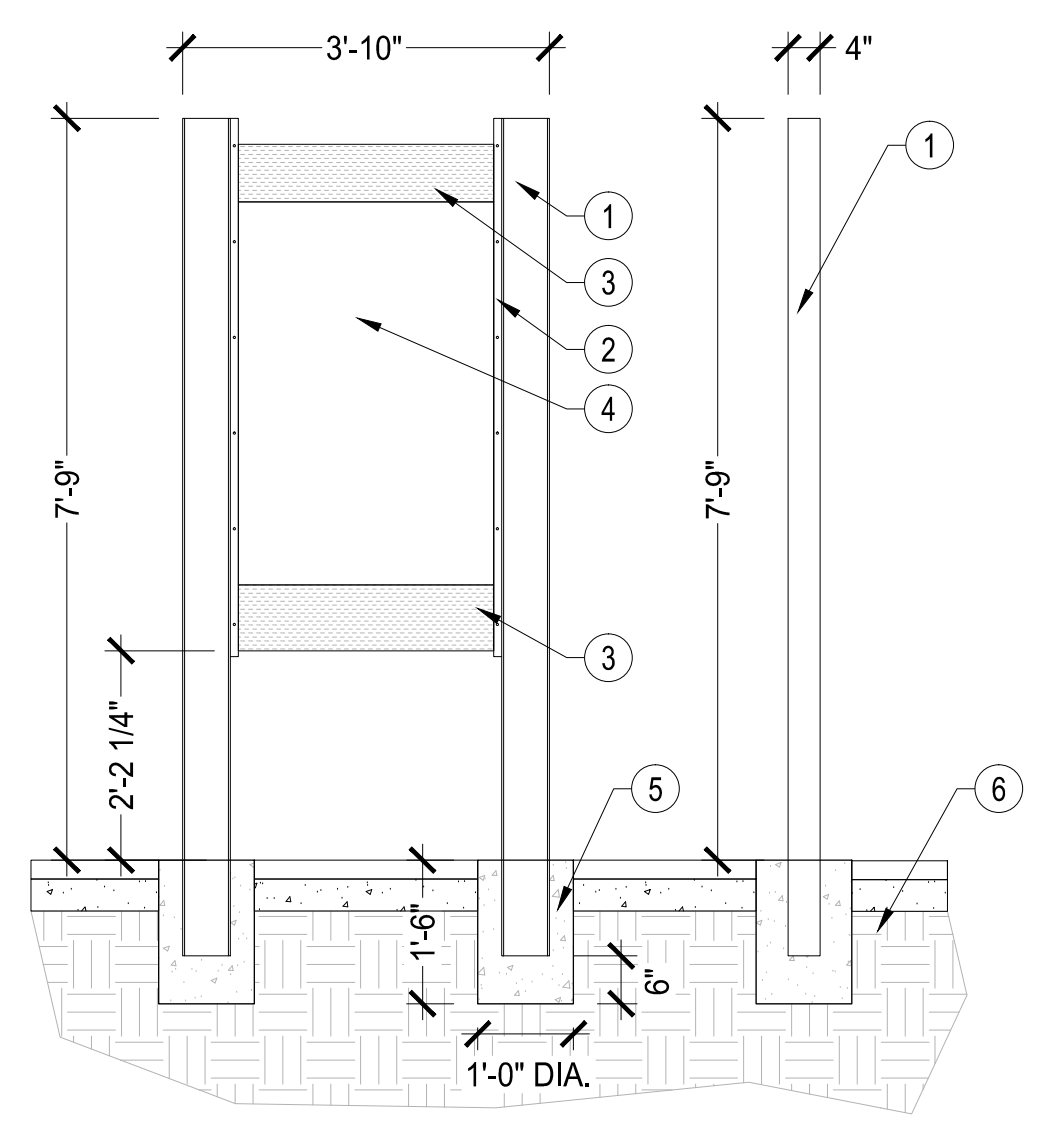
3 TRASH RECEPTACLE - INSTALLATION
SCALE: N.T.S.



- 1 CONCRETE SIDEWALK 4" TH. 2500 PSI, MEDIUM BROOM FINISH, PER MAG #230, REFER TO CIVIL.
- 2 CONTROL JOINT, PER MAG STD.
- 3 EXPANSION JOINT PER MAG STD, REQUIRED AT WALLS.
- 4 ABC, PER CIVIL.
- 5 COMPACTED SUB-GRADE. PER CIVIL.
- 6 STAINED CONCRETE SIDEWALK.

- NOTES:
1. PROVIDE LEVEL SURFACE FOR FINISH GRADE.
 2. MEDIUM BROOM FINISH FOR CONCRETE SURFACE, PERPENDICULAR TO CURB LINE.
 3. INSTALL CONTROL JOINTS AS SHOWN ON PLANS, 4X 4' SCORE PATTERN.

4 CONCRETE SIDEWALK
SCALE: N.T.S.

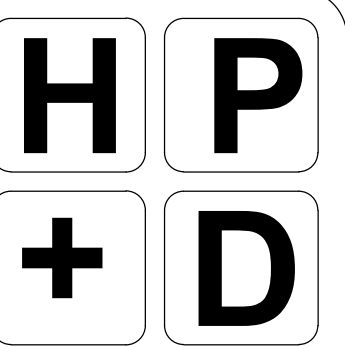


- 1 MILL FINISH STEEL I-BEAM 6" x 4", 3 GAUGE
- 2 ANGLE IRON, 3 GAUGE, PROVIDE TO FRONT AND REAR SIDES OF SIGN
- 3 MCNICHOLS PERFORATED METAL, 20 GAUGE, ALUMINUM 1/8" x 3/4" SLOTTED PATTERN, MECHANICALLY FASTENED BETWEEN ANGLE IRON, PROVIDE ON BOTH SIDES OF GRAPHIC PANELS
- 4 1/4" GRAPHIC PANELS MECHANICALLY FASTENED BETWEEN PERFORATED SCREENS WITH NON-CORROSIVE TAMPER RESISTANT HARDWARE (PANEL ON EACH SIDE OF SCREEN), COORDINATE WITH CITY OF KINGMAN FOR DATA ON PANELS.
- 5 CONCRETE FOOTING 2000 PSI @ 28 DAYS OR PER CIVIL / STRUCTURAL
- 6 COMPACT SUBGRADE, 95% MIN. PROCTOR OR PER CIVIL / STRUCTURAL

- NOTES:
1. APPLY TWO COATS OF ENAMEL PAINT TO I-BEAM POSTS AND ANGLE IRON, DUNN EDWARDS DEEP RESERVOIR (DE5874).
 2. LOCATE THE SIGN AT LEAST 2 FEET OFF TRASH CAN.
 3. GRAPHIC PANEL INFORMATION TO BE PROVIDED BY THE CITY OF KINGMAN.
 4. PROVIDE SHOP DRAWINGS FOR CITY REVIEW OF FOOTINGS AND FRAME ASSEMBLY.

5 WAYFINDING SIGN
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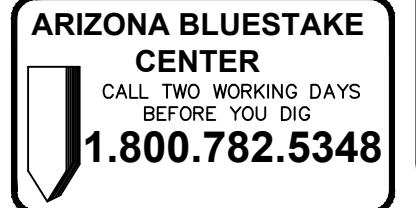
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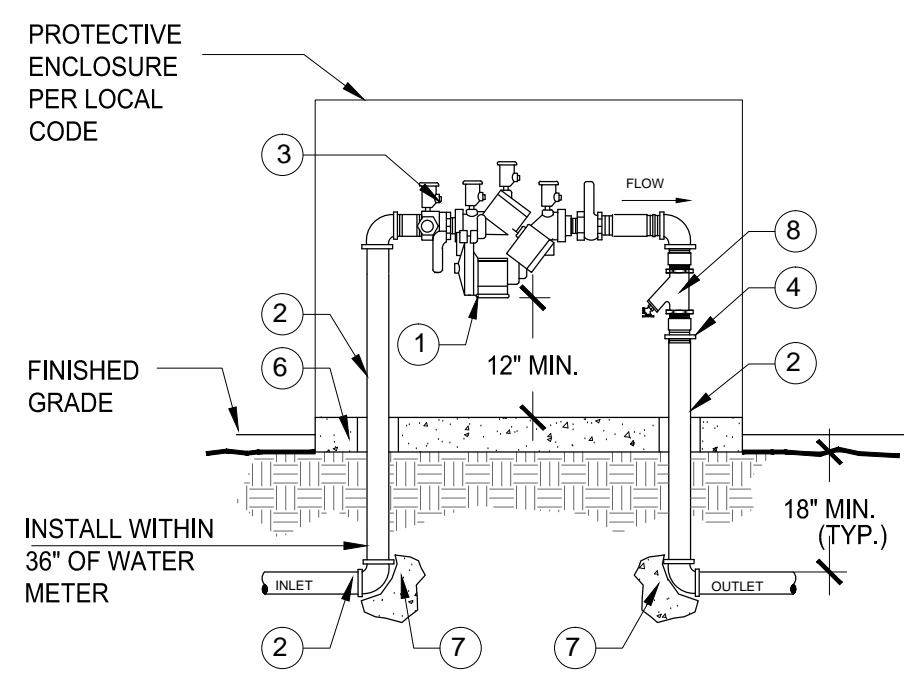
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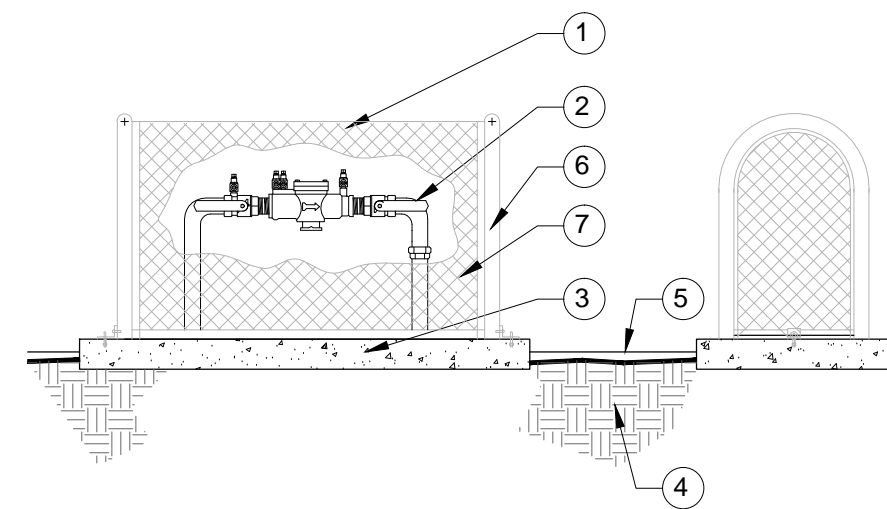
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- NOTES:
1. INSTALL PER LOCAL CODES.
 2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, INSPECTIONS PER GOVERNING CODE.
 3. ADAPT INLET/OUTLET TO MAIN AS REQ'D.
 4. ASSEMBLY SHALL BE INSTALLED LEVEL AND NOT IN A FLOOD PLAIN.
 5. ASSEMBLY SHALL BE TESTED PRIOR TO BEING ACCEPTED.

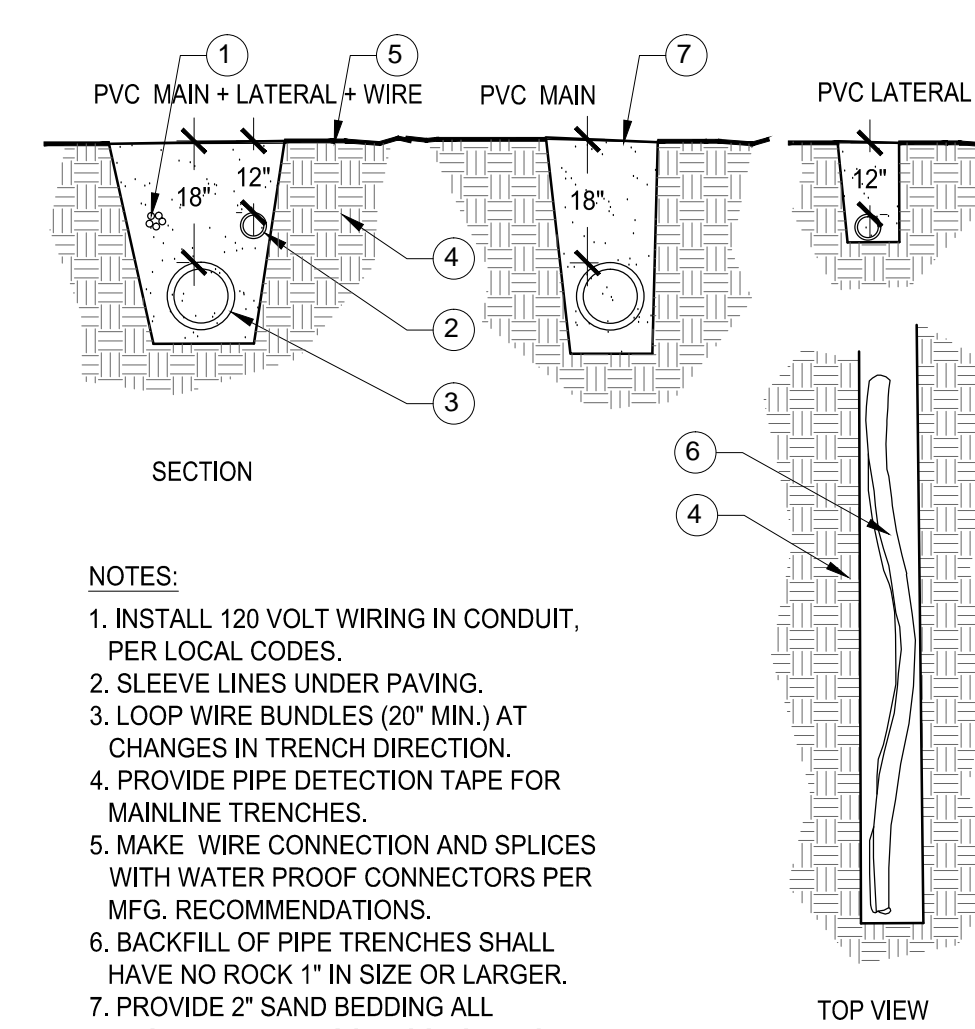
- 1 APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.
- 2 PIPING SHALL BE TYPE "K" HARD COPPER PIPE AND FITTINGS (3/4" THRU 1-1/2") USING LEAD-FREE SOLDER.
- 3 BRASS PLUGS ARE REQUIRED ON ALL TEST COCKS.
- 4 BRASS OR COPPER UNION (INSTALL ON DISCHARGE SIDE).
- 5 HEIGHT REQUIREMENTS FOR ASSEMBLIES (12" MIN., 24" MAX.).
- 6 4" CONCRETE PAD, CLASS B
- 7 THRUST BLOCKS FOR 2" OR GREATER.
- 8 BRASS Y-STRAINER, (30 MESH).

6. ASSEMBLY SHALL NOT BE INSTALLED ANY CLOSER THAN 18" FROM A WALL OR OBSTRUCTION, (IF TEST COCKS FACE THE WALL, OR 12" FROM A WALL IF TEST COCKS FACE AWAY).
7. CONCRETE SUPPORT PAD SHALL BE A MINIMUM OF 4" LARGER IN ALL DIMENSIONS THAN ENCLOSURE.
8. FINISHED GRADE UNDERNEATH ASSEMBLY SHALL BE AT 95% COMPACTION.
9. CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN PIPE SIZE.



NOTES:

1. CONCRETE PAD SHALL BE SET PARALLEL W/ GRADE.
2. TEFLON SEAL ALL THREAD JOINTS.
3. SET EYEBOLT WITH BOTTOM OF CIRCLE FLUSH WITH CONCRETE BASE THEN EYEBOLT CANNOT BE TURNED WHEN BRACKET IS IN PLACE.
4. BOLT BRACKET TO ENCLOSURE ON ENDS OR BOTH SIDES. USE 1/4" X 1 1/4" TAMPER-PROOF BOLTS WITH HEX NUTS AND WASHERS PROVIDED.
5. WELD ENCLOSURE SOLID AT ALL JOINTS.
6. TOOL EXPOSED CONCRETE EDGES TO 3/8" RADIUS.
7. MIN. CLEARANCE INSIDE CAGE TO BE 6".



NOTES:

1. INSTALL 120 VOLT WIRING IN CONDUIT, PER LOCAL CODES.
2. SLEEVE LINES UNDER PAVING.
3. LOOP WIRE BUNDLES (20" MIN.) AT CHANGES IN TRENCH DIRECTION.
4. PROVIDE PIPE DETECTION TAPE FOR MAINLINE TRENCHES.
5. MAKE WIRE CONNECTION AND SPLICES WITH WATER PROOF CONNECTORS PER MFG. RECOMMENDATIONS.
6. BACKFILL OF PIPE TRENCHES SHALL HAVE NO ROCK 1" IN SIZE OR LARGER.
7. PROVIDE 2" SAND BEDDING ALL AROUND PIPE IF ROCKY SOILS PRESENT.

- 1 CONTROL WIRE BUNDLE, TAPE AT 10' INTERVALS.
- 2 PVC LATERAL LINE.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 SNAKE PVC PIPE IN TRENCHES.
- 7 COMPACT TRENCH BACKFILL IN 6" LIFTS. DENSITY TO MATCH ADJACENT SOIL CONDITIONS.

1 BACKFLOW PREVENTER ASSEMBLY

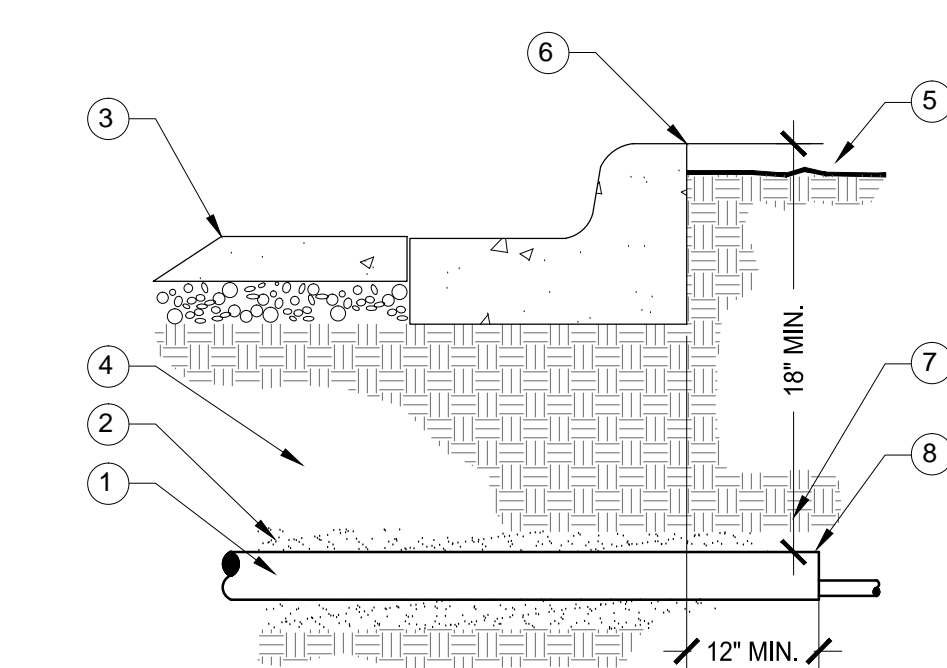
SCALE: N.T.S.

2 BACKFLOW PREVENTER ENCLOSURE

SCALE: N.T.S.

3 IRRIGATION TRENCH

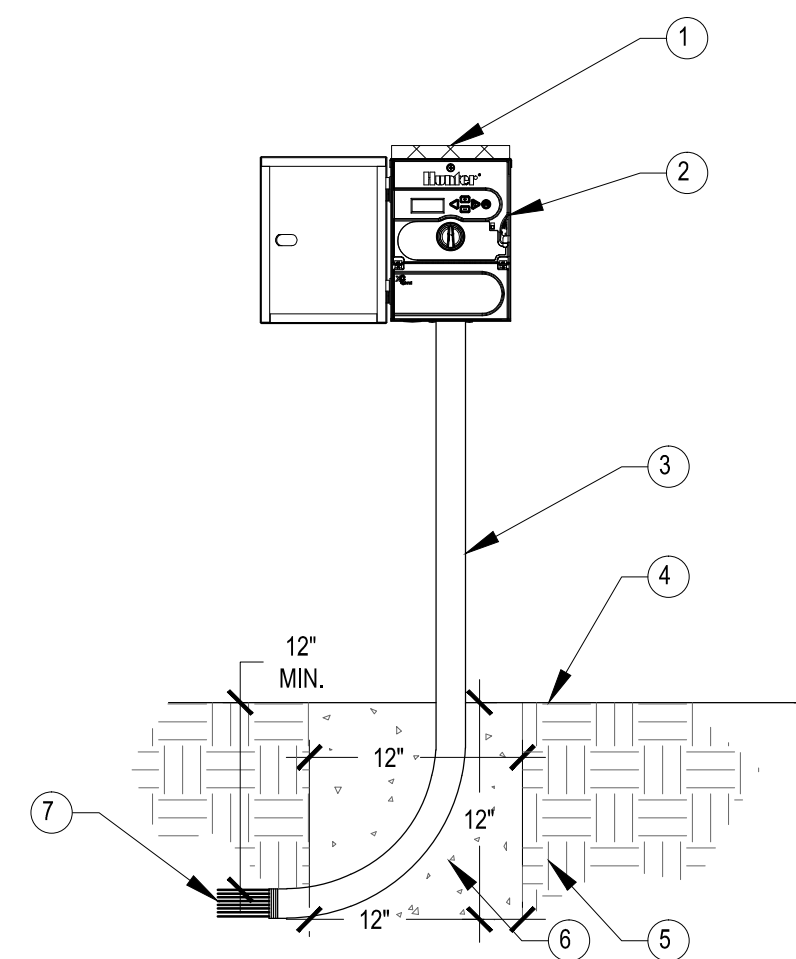
SCALE: N.T.S.



NOTES:

1. CAP SLEEVES UNTIL USE.
2. MULTIPLE SLEEVES REQUIRE 4" SEPARATION WITHIN SAME SLEEVE TRENCH.
3. PROVIDE SEPERATE WATER LINE AND WIRE SLEEVES AS REQUIRED. NO WIRES IN WATER SLEEVES.
4. SLEEVE FOR DRIVEWAYS AND SIDEWALKS TO MATCH TRENCHING DEPTH FOR PIPE AND WIRES.

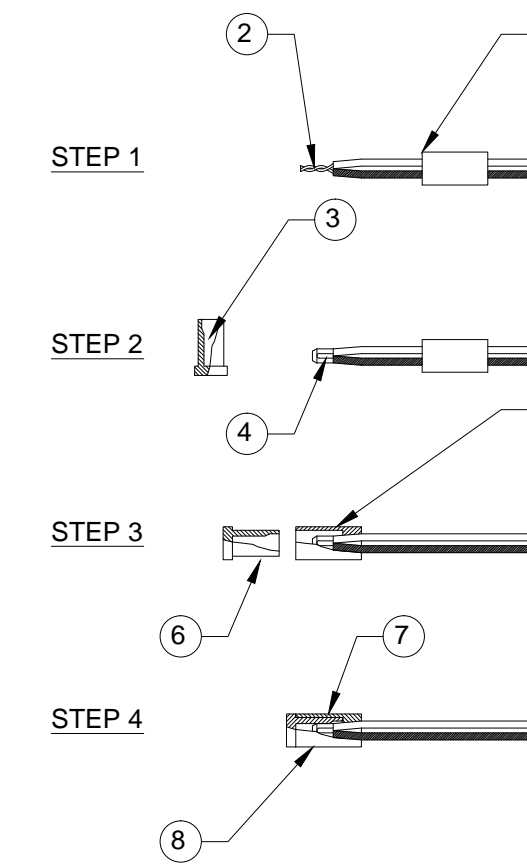
- 1 SCH. 40 PVC SLEEVE, TWICE DIAMETER OF SERVICE PIPE, SEE SLEEVE/PIPE SCHEDULE.
- 2 WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS.
- 3 PAVING.
- 4 COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 DISCRETELY PAINT OR MARK EDGE OF PAVING, CURB, OR WALK AT SLEEVE LOCATIONS.
- 7 36" MIN. DEPTH OR PER LOCAL CODE.
- 8 EXTEND SLEEVES 12" BEYOND EDGES.



- 1 SOLAR POWERED
- 2 MODEL XC-600-SS CONTROL WIRE IN ELECTRICAL CONDUIT.
- 3 35" STEEL MOUNTING COLUMN.
- 4 FINISH GRADE.
- 5 BACKFILL SOIL.
- 6 POURED CONCRETE BASE 1 CU.FT. INSTALL PER MANUFACTURER'S INSTALLATION GUIDE.
- 7 DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES.

NOTES:

1. INSTALL WIRING PER LOCAL CODE AND MFG. RECOMMENDATIONS.
2. PROVIDE LIGHTNING PROTECTION AND GROUNDING FOR CONTROLLER.
3. PROVIDE LOCK FOR CONTROLLER ENCLOSURE.
4. PLACE WEATHERPROOF COPY OF CONTROLLER SCHEDULE INSIDE ENCLOSURE.
5. ALLOW 3 FT. CLEARANCE IN FRONT OF CONTROLLER ENCLOSURE DOOR FOR ACCESS. HUNTER PANEL KIT SCXCH IS REQUIRED FOR INSTALLATION.
7. HUNTER XCHS MOUNTING POLE REQUIRED FOR INSTALLATION.
8. HUNTER SOLENOID REQUIRED FOR EACH VALVE (SRV-100G).



- 1 SLIP BASE SOCKET OVER END OF WIRES.
- 2 STRIP WIRES 1/8" FROM ENDS, TWIST ENDS TOGETHER.
- 3 APPLY SEALER TO OUTSIDE OF SEALING PLUG, FILL CAVITY WITH SEALER.
- 4 PLACE CRIMP SLEEVE OVER WIRE ENDS, CRIMP SLEEVE AND BEND OVER EXCESS WIRE.
- 5 PLACE BASE SOCKET OVER WIRE END SNUG TO CRIMP SLEEVE.
- 6 PUSH SEALING PLUG INTO BASE SOCKET.
- 7 PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION.
- 8 RAINBIRD PEN-TITE WIRE CONNECTOR APPROVED EQUAL.

NOTE: FOR WIRE SIZES NO.14, NO.12, AND NO.10

4 IRRIGATION SLEEVE

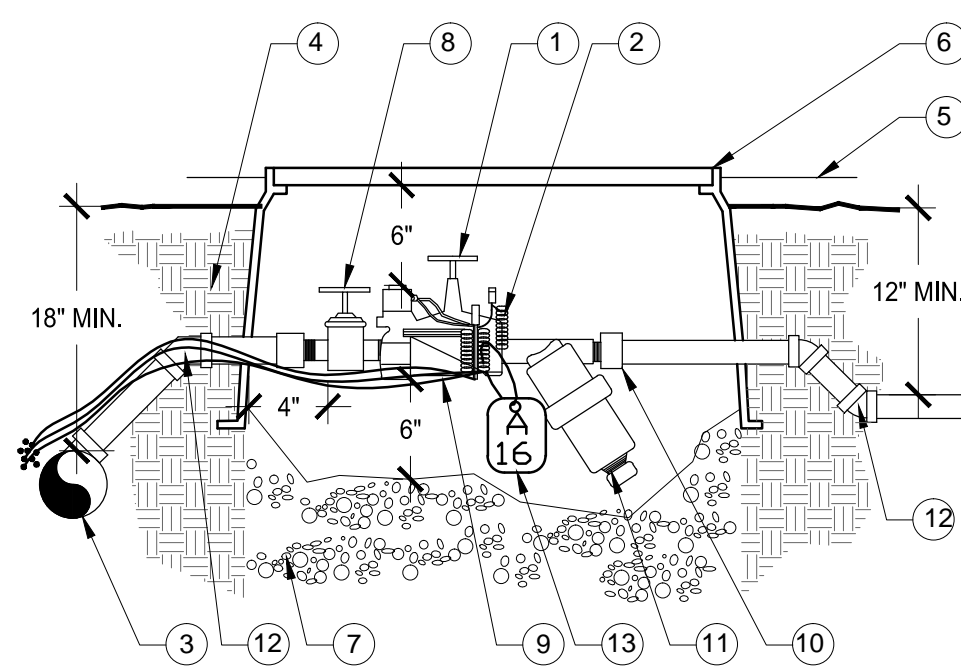
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6 CONTROLLER - SOLAR - HUNTER XCH 600 SS

SCALE: N.T.S.

6 IRRIGATION WIRE CONNECTIONS

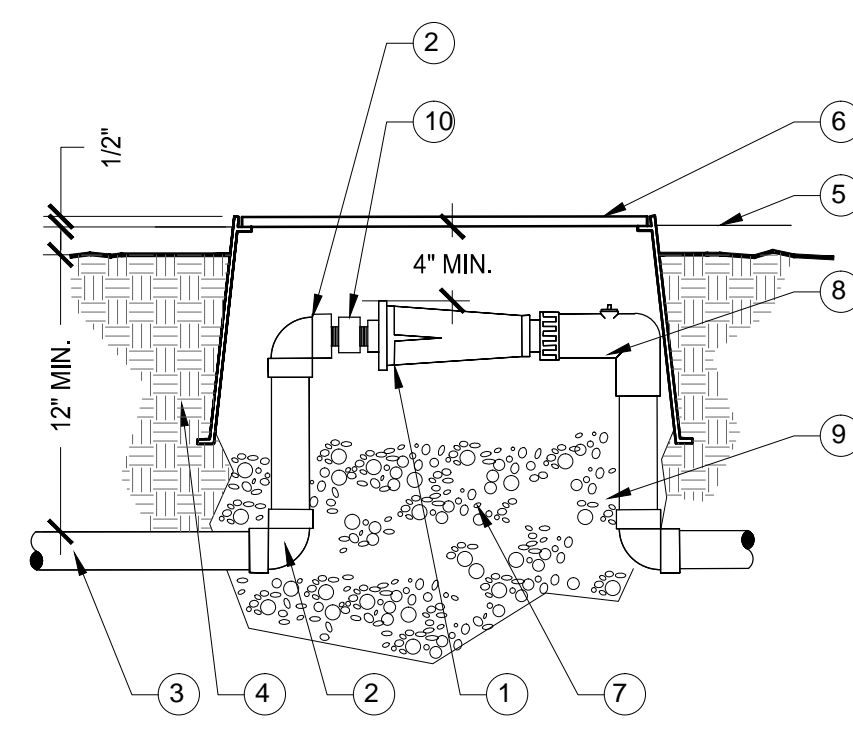
SCALE: N.T.S.



NOTES:

1. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP WIRE AROUND PIPE 15 TIMES).
2. SET VALVE BOX PARALLEL W/ GRADE.
3. SEAL THREADED JOINTS WITH TEFLON.
4. DO NOT REST VALVE BOX ON MAIN LINE.
5. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
6. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
7. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

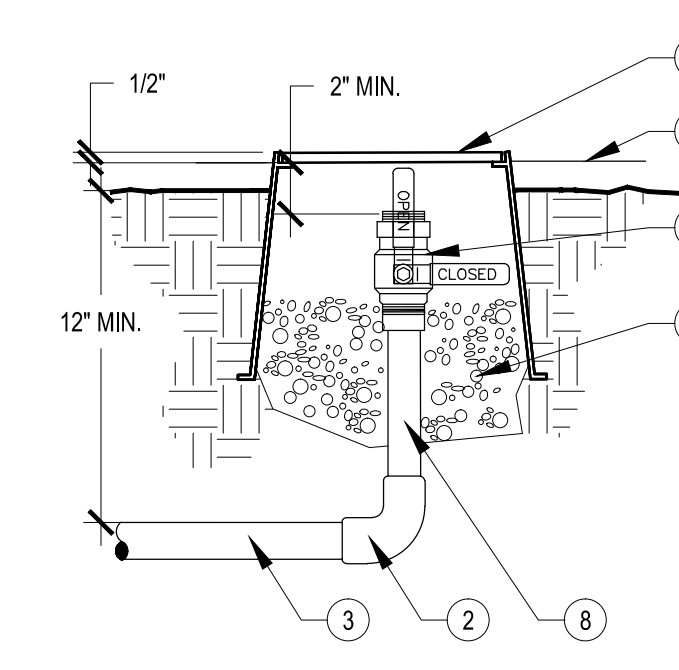
- 1 ELECTRIC REMOTE VALVE PER LEGEND.
- 2 EPOXY FILLED CYLINDER WIRE CONNECTORS.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. TAN COLOR IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 2 CU. FT MIN.
- 8 PVC ISOLATION BALL VALVE.
- 9 CONTROLLER WIRE, TAPE AND BUNDLE AT 10' INTERVALS.
- 10 PVC SCH 80 UNION.
- 11 WYE FILTER (#150 MESH) WITH STAINLESS STEEL SCREEN, POSITION TO ONE SIDE AND DOWNWARD.
- 12 PVC SCH 80 FITTINGS.
- 13 VALVE TAG, STANDARD VALVE I.D. AND LETTER TO CORRESPOND TO CONTROLLER AND VALVE NUMBER, AFFIX TO CONTROL WIRE W/ ELECTRICAL WIRE TIE.



NOTES:

1. SET VALVE BOX PARALLEL WITH GRADE.
2. SEAL THREADED JOINTS WITH TEFLON.
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. LOCATE ONLY 1 PRESSURE REGULATOR PER VALVE BOX.
5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

- 1 PRESET PRESSURE REGULATOR, 30 PSI OR PER LEGEND.
- 2 PVC SCH 80 FITTINGS.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND PRESSURE REGULATOR ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12") MIN.
- 8 PVC ELL 1/2" HT SWIVEL W/ SCHRADER PRESSURE CHECK VALVE.
- 9 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 10 PVC SCH 80 UNION.



- 1 BRONZE 1/2" THREADED FULL-PORT BALL VALVE.
- 2 PVC SCH 80 FITTINGS.
- 3 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 4 COMPACT SOIL AROUND FLUSH CAP ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 1 CU. FT MIN.
- 8 PVC SCH 80 1/2" NIPPLE RISER (LENGTH AS REQUIRED).

NOTES:

1. SET VALVE BOX PARALLEL W/ GRADE.
2. SEAL THREADED JOINTS WITH TEFLON.
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. LOCATE ONLY ONE FLUSH CAP PER VALVE BOX.
5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

7 DRIP VALVE ASSEMBLY

SCALE: N.T.S.

8 PRESSURE REGULATOR - DRIP VALVE

SCALE: N.T.S.

9 DRIP VALVE - BALL VALVE FLUSH CAP

SCALE: N.T.S.

HP+D
HARRINGTON
PLANNING + DESIGN
4711 E. Falcon Drive, Suite 222
Mesa, Arizona 85215
Tel: 480-250-0116
www.HarringtonPlanningDesign.com

LANDSCAPE ARCHITECT
REGISTERED ARCHITECT NO. 44161
JASON E. HARRINGTON
ARIZONA U.S.A.
06.06.23

CITY OF KINGMAN
BEALE STREET IMPROVEMENTS
Beale Street
Kingman, Arizona 86401

REV.	COMMENT	DATE

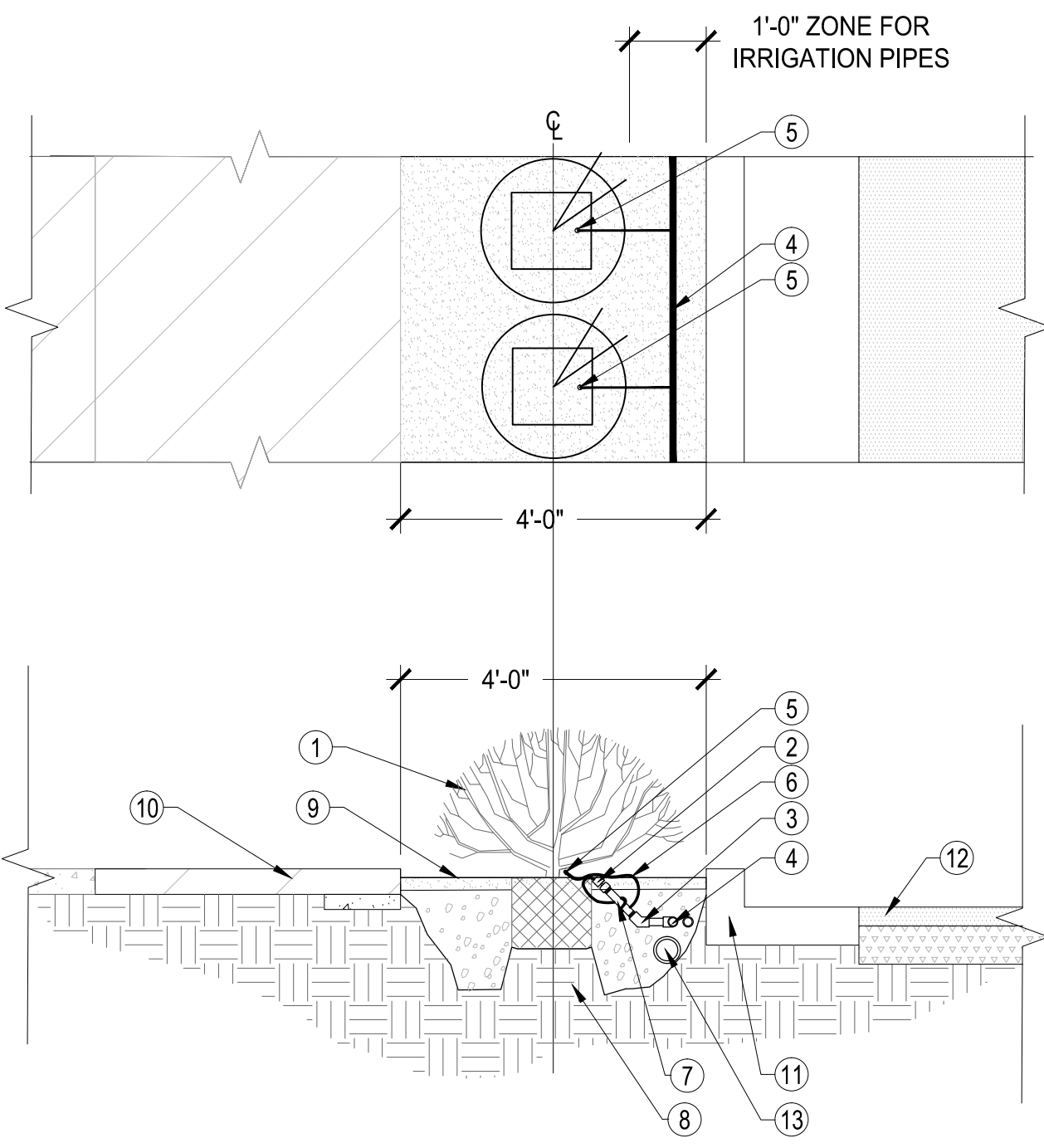
REV.	COMMENT	DATE
100% Submittal VE		06.08.23
100% Submittal		01.18.23
90% Submittal R1		12.05.22
90% Submittal		03.04.22
60% Submittal		08.06.21
30% Submittal		04.12.21
ISSUE		DATE

LANDSCAPE PACKAGE
June 6, 2023
DRAWN BY: BZS
CHECK BY: JEH
PROJ. NO.: 2020-007
CASE NO.: 17-2597

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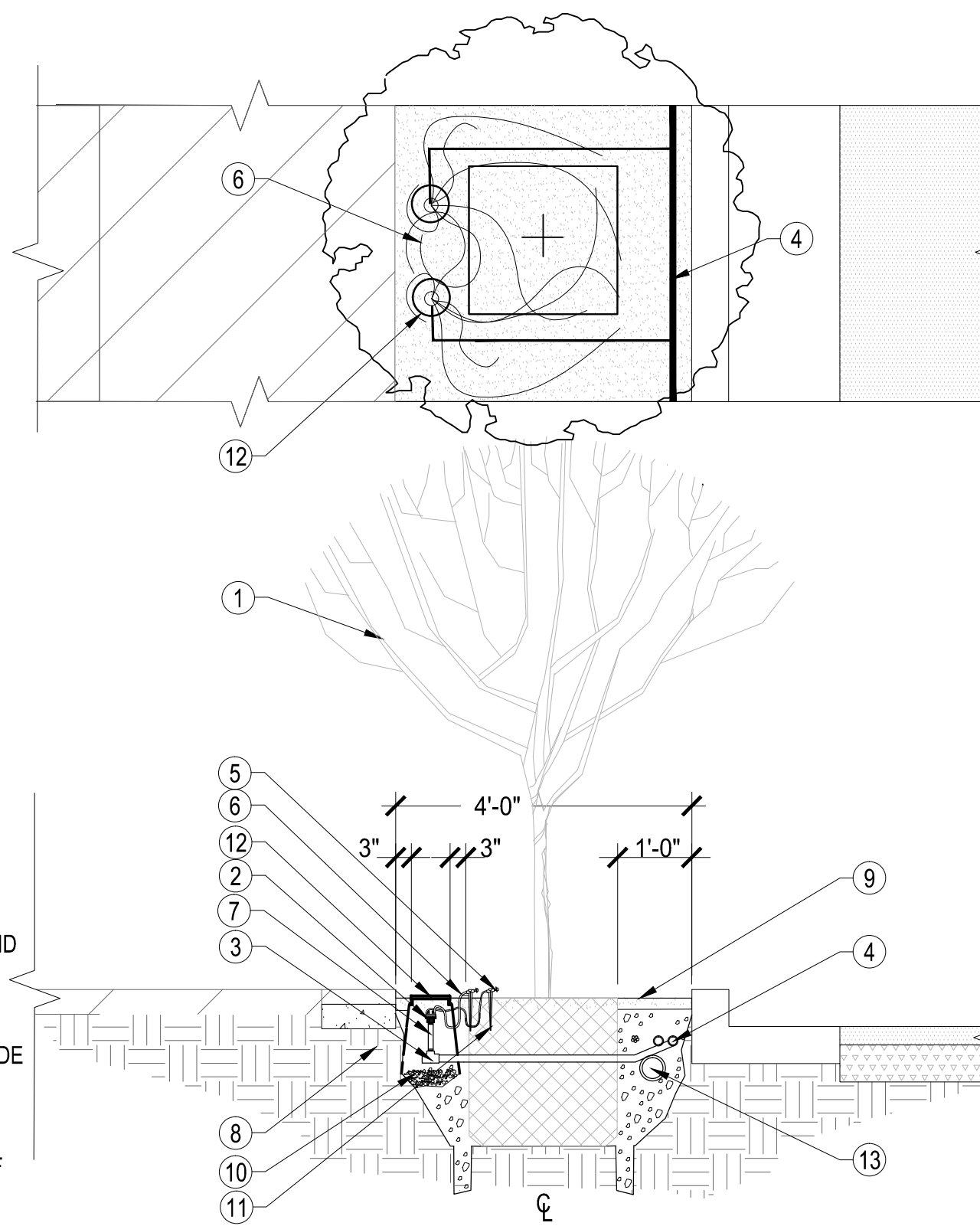


- 1 PLANT MATERIAL, SEE LANDSCAPE LEGEND.
- 2 PRESSURE COMPENSATING EMITTER, THREADED. SEE LEGEND FOR SIZE.
- 3 PVC SCH 80 FITTING, ELL OR TEE.
- 4 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 5 BUG CAP.
- 6 DISTRIBUTION TUBING. LOOP AROUND PVC FOR A 5 FT MAXIMUM LENGTH. DO NOT KINK TUBING.
- 7 PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).
- 8 NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
- 9 FINISH GRADE / TOP OF DG.
- 10 STAINED CONCRETE SIDEWALK PER PLAN.
- 11 CONCRETE HEADER PER PLAN.
- 12 ROAD ASPHALT SURFACE, SEE CIVIL PLANS.
- 13 MAINLINE PIPE.

- NOTES:
1. SINGLE PORT EMITTER FOR SHRUBS, ACCENTS, AND GROUND COVERS ONLY.
 2. SEAL THREAD JOINTS WITH TEFLON.
 3. SLOPE CONDITIONS: PLACE EMITTER ON UPHILL SIDE OF PLANT.
 4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
 5. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF LATERALS.

1 SINGLE PORT EMITTER WITH DISTRIBUTION TUBING

SCALE: N.T.S.

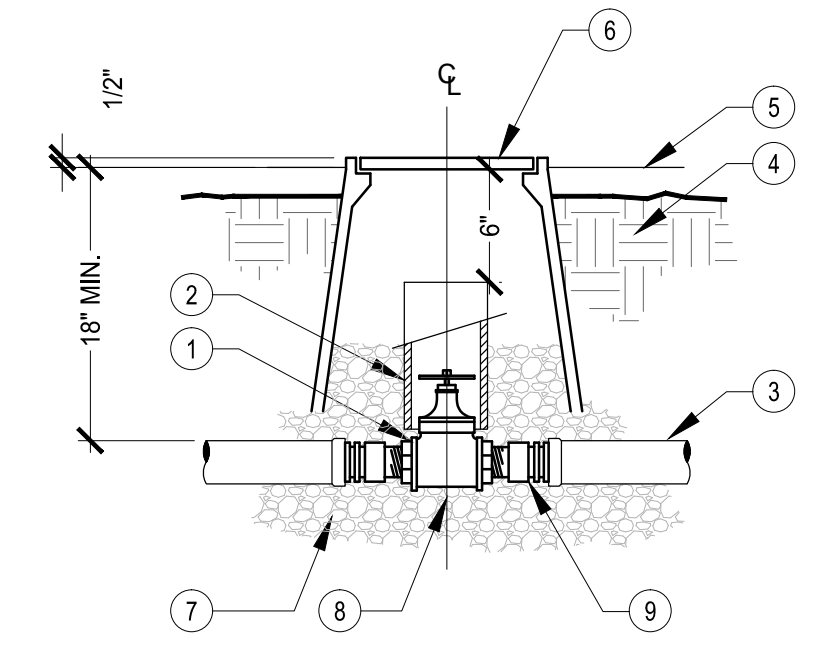


- 1 TREE, SEE LANDSCAPE LEGEND.
- 2 PRESSURE COMPENSATING EMITTER, THREADED. SEE LEGEND FOR SIZE.
- 3 PVC SCH 80 FITTING, ELL OR TEE.
- 4 PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
- 5 BUG CAP.
- 6 1/4" DISTRIBUTION TUBING. LOOP FOR A 5 FT. MAXIMUM LENGTH. NO KINKS IN TUBING.
- 7 PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).
- 8 NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.
- 9 FINISH GRADE / TOP OF DG.
- 10 3/8" WASHED PEA GRAVEL SUMP, 1/2 CU. FT MIN.
- 11 1/4" DISTRIBUTION TUBE EMITTER STAKE.
- 12 6" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG.
- 13 MAINLINE PIPE.

- NOTES:
1. MULTI PORT EMITTER FOR TREES AND MASSES PLANTS ONLY.
 2. TEFLON SEAL ALL THREAD JOINTS.
 3. ON SLOPE CONDITIONS, PLACE EMITTER ON UPHILL SIDE OF PLANT.
 4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
 5. SPACE EMITTER TUBING EQUALLY AROUND DRIP LINE OF TREE.
 6. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF LATERALS.
 7. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
 8. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

2 MULTI PORT EMITTER WITH DISTRIBUTION TUBING

SCALE: N.T.S.

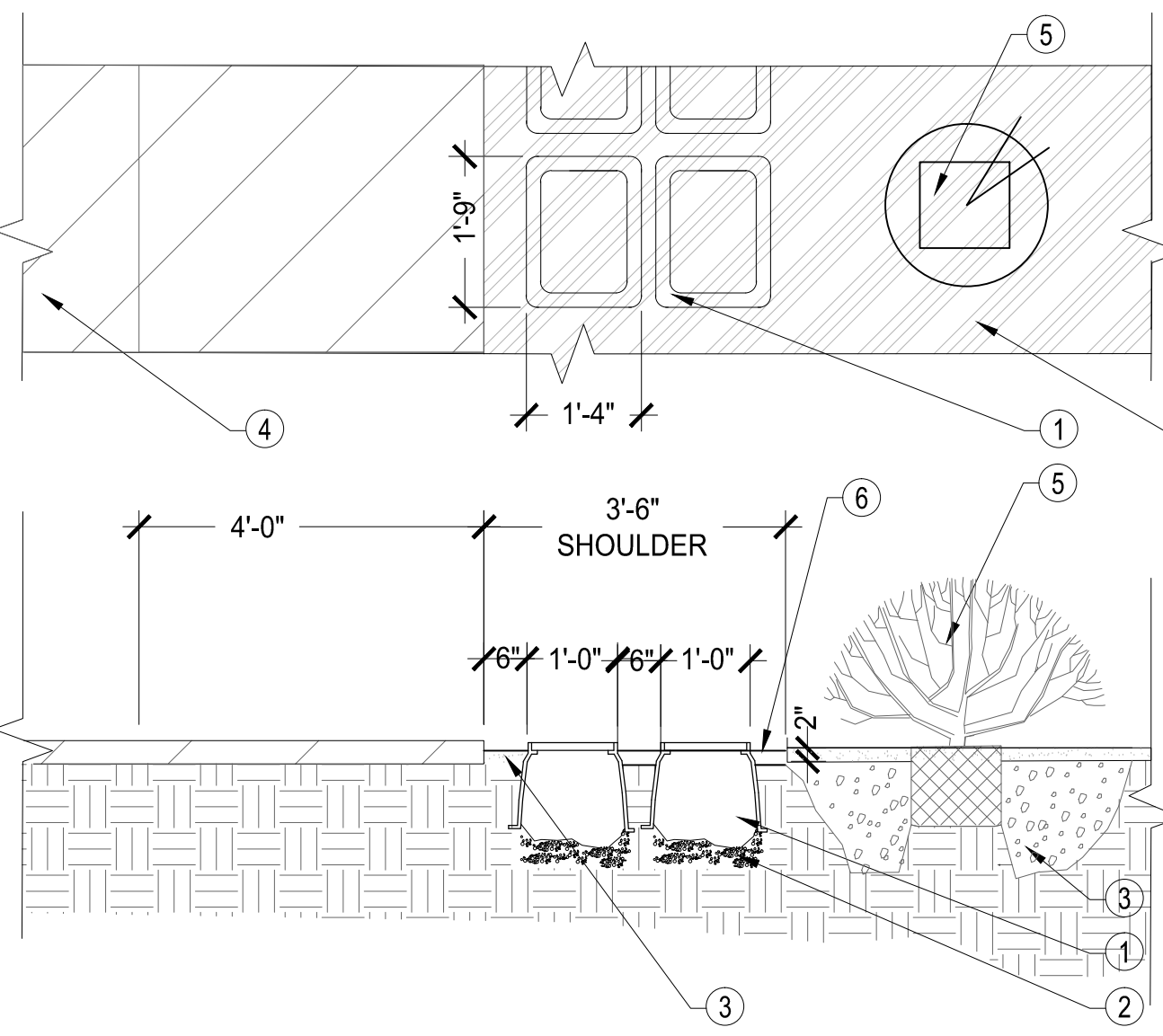


- 1 THREADED BRONZE GATE VALVE WITH SOILD WEDGE, NON-RISING STEM PER LEGEND.
- 2 PVC CL 200 PIPE (LENGTH AS REQUIRED), 6-INCH DIA.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12").
- 8 PROVIDE THRUST BLOCK FOR VALVES 2" OR LARGER.
- 9 SCH 80 PVC COUPLING, 2 PLS.

- NOTES:
1. SET VALVE BOX 3" ABOVE FINISHED GRADE.
 2. PROVIDE GATE VALVE KEY - LENGTH AS REQUIRED.
 3. DO NOT REST VALVE BOX ON MAIN LINE.
 4. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
 5. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

3 GATE VALVE ASSEMBLY

SCALE: N.T.S.

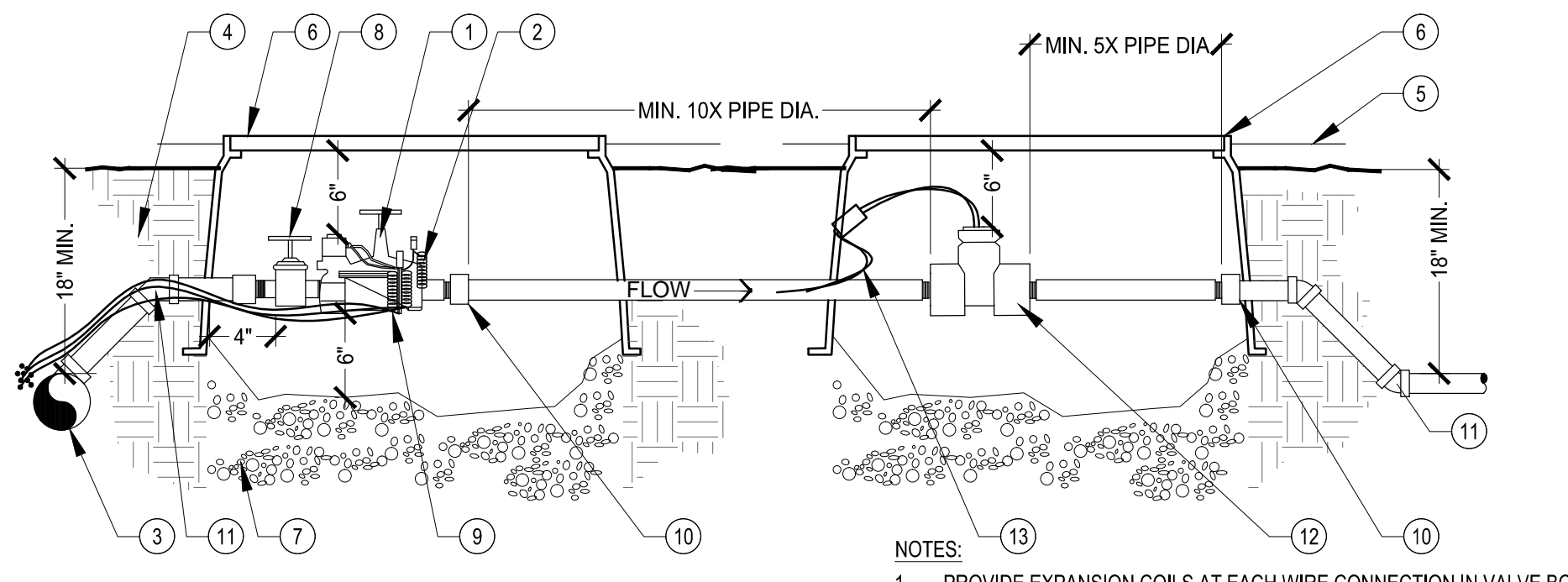


- 1 CARSON 1419-12, 12" STANDARD VALVE BOX.
- 2 3/4" WASHED PEA GRAVEL SUMP, 2 CU. FT MIN.
- 3 LANDSCAPE PLANTER AREA.
- 4 STAINED CONCRETE SIDEWALK.
- 5 PLANT MATERIALS PER PLAN LEGEND.
- 6 FINISH GRADE/TOP OF DG.
- 7 NATIVE UNDISTURBED SOIL OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY.

- NOTES:
1. PROVIDE VALVE BOX FOR TREE&SHRUB DRIP VALVES AND PRESSURE REGULATORS.
 2. DO NOT REST VALVE BOX ON MAIN LINE.
 3. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
 4. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
 5. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

4 VALVE BOX PLACEMENT

SCALE: N.T.S.

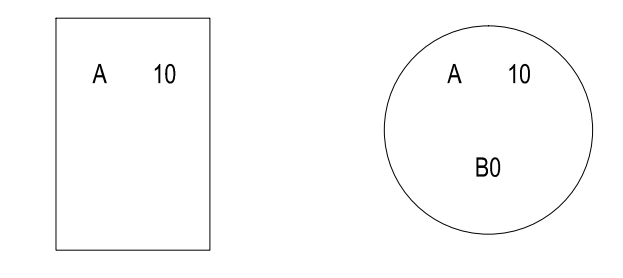


- 1 ELECTRIC REMOTE VALVE PER IRRIGATION LEGEND.
- 2 EPOXY FILLED CYLINDER WIRE CONNECTORS.
- 3 PVC SCH 40 MAINLINE.
- 4 COMPACT SOIL AROUND VALVE BOX ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 5 FINISH GRADE / TOP OF DG.
- 6 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. TAN COLOR IN DG, GREEN IN TURF.
- 7 3/4" WASHED PEA GRAVEL SUMP, 2 CU. FT. MIN.
- 8 PVC ISOLATION BALL VALVE.
- 9 CONTROLLER WIRE, TAPE AND BUNDLE AT 10' INTERVALS.
- 10 PVC SCH 80 UNION.
- 11 PVC SCH 80 FITTINGS.
- 12 FLOW SENSOR, SEE IRRIGATION LEGEND FOR PRODUCT AND SIZE.
- 13 FLOW SENSOR COMMUNICATION CABLE. WIRE TO IRRIGATION CONTROLLER OR TRANSMITTER.

- NOTES:
1. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND PIPE 15 TIMES).
 2. VALVE BOX SHALL BE SET PARALLEL W/ GRADE.
 3. TEFLON SEAL ALL THREAD JOINTS.
 4. DO NOT REST VALVE BOX ON MAIN LINE.
 5. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
 6. UNOBSTRUCTED FLOW REQUIRED BEFORE AND AFTER SENSOR FOR ACCURATE READING. LENGTH BEFORE PIPE TO BE 10 TIMES PIPE DIA. AND AFTER PIPE 5 TIMES PIPE DIA.
 7. MAX. LENGTH OF SENSOR COMM. CABLE TO BE 2000 FT OR PER MFG. REQUIREMENTS.
 8. MAINLINE PIPE SHALL NOT CHANGE SIZE OR DIRECTION WITHIN SPECIFIED SENSING RANGE.
 9. USE 45 DEGREE ELBOWS TO ACHIEVE MAINLINE DEPTH ON DOWN-STREAM SIDE OF SENSOR.
 10. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
 11. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

5 MASTER VALVE / FLOW SENSOR ASSEMBLY

SCALE: N.T.S.



- NOTES:
1. DRIP VALVE ASSEMBLY - SEE BELOW
 2. CONTROL VALVE - SEE BELOW
 3. MASTER VALVE - MV CENTER ON LID
 4. QUICK COUPLER - QC CENTER ON LID
 5. WIRE SPLICE - WS CENTER ON LID
 6. GATE VALVE - GV CENTER ON LID
 7. FLOW SENSOR - FS CENTER ON LID
 8. LETTERS MUST BE STRAIGHT AND LEGIBLE. LIDS WITH INCORRECT SPELLING OR INCORRECT PRODUCT LABEL SHALL BE REPLACED AT NO CHARGE BY CONTRACTOR.

6 VALVE BOX BRANDING

SCALE: N.T.S.

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HARRINGTON
PLANNING + DESIGN
 4711 E. Falcon Drive, Suite 222
 Mesa, Arizona 85215
 Tel: 480-250-0116
 www.HarringtonPlanningDesign.com

LANDSCAPE ARCHITECT
 REG. NO. 44161
 JASON E. HARRINGTON
 ARIZONA U.S.A.
 06.06.23

CITY OF KINGMAN
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 Beale Street
 Kingman, Arizona 86401

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 CASE NO.: 17-2597

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