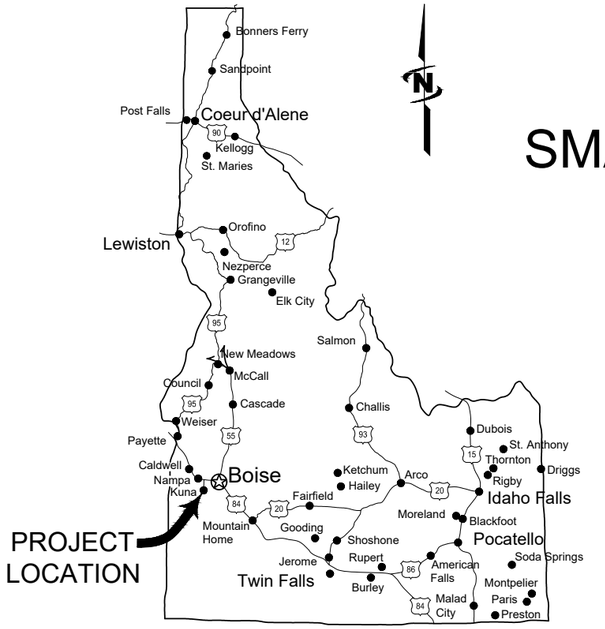
J-U-B ENGINEERS, INC.

CITY OF KUNA

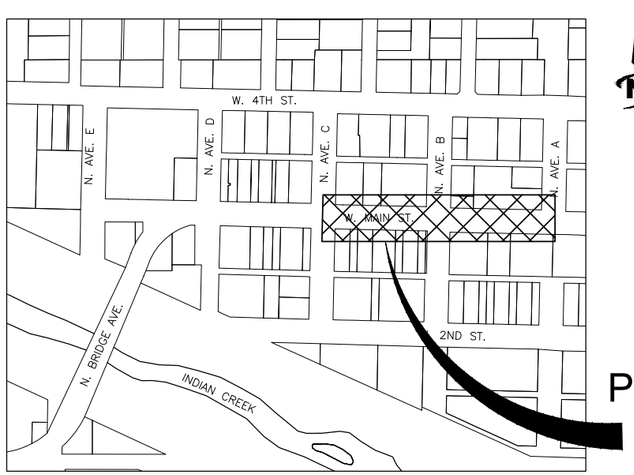
SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA

FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

APRIL 2018



AREA MAP



VICINITY MAP

PHASE IIA & IIB PROJECT SITE

DOWNTOWN REVITALIZATION PROJECT PHASE IIA & IIB

PRELIMINARY FOT FOR CONSTRUCTION
50% PRELIMINARY DESIGN SUBMITTAL

J-U-B PROJECT NO. 10-17-142

J-U-B ENGINEERS, INC.

250 South Beechwood Avenue, Suite 201, Boise, ID 83709-0944
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OTHER J-U-B COMPANIES THE LANGDON GROUP GATEWAY MAPPING INC.

811 Know what's below. Call before you dig.
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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LAST UPDATED: 4/12/2018

SHEET NUMBER:

G-001

GENERAL NOTES:

1. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE CONSTRUCTION PLANS, SPECIFICATIONS AND 2015 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC) AND 2015 ACHD SUPPLEMENTAL STANDARDS TO 2015 ISPWC.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING STANDARDS LISTED IN NOTE 1 AND MAINTAINING A COPY ON SITE DURING CONSTRUCTION.

3. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. NO GUARANTEE IS MADE OR IMPLIED THAT ALL EXISTING UTILITIES ARE SHOWN IN EXACT LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL DIG-LINE AT 811 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATING TO REQUEST LOCATIONS OF UNDERGROUND UTILITIES. UNDERGROUND UTILITY LOCATION AND VERIFICATION SHALL BE AN ONGOING PROCESS. WHERE CONFLICTING UTILITIES MAY BE PRESENT, THE CONTRACTOR SHALL VERIFY LOCATION A MINIMUM OF 300 FEET AHEAD OF TRENCHING OPERATIONS, AND NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS. CONTRACTOR IS RESPONSIBLE TO CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES AND ADDRESS BOTH EXISTING RELOCATIONS AND NEW INSTALLATIONS TO INCLUDE SLEEVING FOR FUTURE SERVICES.

4. ALL CONTRACTORS, SUB CONTRACTORS, AND UTILITY CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER AND ENGINEER PRIOR TO START OF WORK.

5. ALL SURFACE DISRUPTIONS, EXISTING LANDSCAPING, IRRIGATION SYSTEMS, OR OTHER SITE FEATURES DISTURBED BY CONSTRUCTION ACTIVITIES NOT DESIGNATED TO BE MODIFIED OR CONSTRUCTED SHALL BE RESTORED TO PRE-PROJECT OR BETTER CONDITION OR AS SPECIFICALLY DETAILED ON THE PLANS. SITE SHALL BE CLEANED AND RESTORED TO ORIGINAL OR BETTER CONDITION UPON COMPLETION OF THE WORK.

6. ALL EXISTING SITE FEATURES INCLUDING CURB AND GUTTERS, SIDEWALKS, OR ASPHALT PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE OWNER AND JURISDICTIONAL AGENCY INCLUDING NECESSARY SAW CUTTING, REMOVAL, REPLACEMENT AND CAPPING.

7. INSTALLATION OF GROUNDWATER DEWATERING SYSTEMS MAY BE REQUIRED TO FACILITATE CONSTRUCTION OF PROPOSED FACILITIES. GROUNDWATER LEVELS SHALL BE MAINTAINED BELOW THE BOTTOM OF THE TRENCH AND STRUCTURE EXCAVATION DURING INSTALLATION. CONTRACTOR IS REQUIRED TO SECURE DEWATERING DISPOSAL SITES AND REQUIRED AGENCY PERMITS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY.

9. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCY WHEN MATERIALS ARE ON SITE AND INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON PORTIONS OF THE PROJECT WITHOUT (24) TWENTY-FOUR HOUR PRIOR NOTICE OR WHEN TEST RESULTS CAN BE OBTAINED.

10. WORK SUBJECT TO APPROVAL BY ANY GOVERNMENTAL AGENCY MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING.

11. ALL WORK SHALL BE CONFINED TO THE PUBLIC RIGHTS-OF-WAYS AND EASEMENTS SHOWN ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR SECURING CONSTRUCTION STAGING AREAS AND OTHER TEMPORARY CONSTRUCTION EASEMENTS THAT MAY BE REQUIRED TO CONSTRUCT THE PROJECT.

ROADWAY:

12. CONSTRUCTION IMPROVEMENTS OUTSIDE OF ACHD RIGHT-OF-WAY REQUIRE A PROPERTY USE AGREEMENT TO BE EXECUTED WITH THE ADJACENT LAND OWNER. CONTRACTOR SHALL VERIFY EXISTING AGREEMENTS WITH ACHD AND THE LAND OWNER PRIOR TO CONSTRUCTION OUTSIDE OF ACHD RIGHT-OF-WAY. IF SUCH AGREEMENT DOES NOT EXIST, CONTRACTOR SHALL SECURE AN AGREEMENT BEFORE PROCEEDING WITH THE WORK.

13. PRIOR TO PLACEMENT OF FILL MATERIAL, THE CONTRACTOR SHALL CLEAR THE SITE OF ALL WASTE MATERIALS, VEGETATION, AND TOPSOIL. TOPSOIL REMOVED FROM ROUGH GRADING ACTIVITIES SHALL BE STOCKPILED IN DESIGNATED LOCATIONS AND BE RE-DISTRIBUTED AS NEEDED EVENLY ON THE FINISH GRADE CUT AND FILL SLOPES OF THE ROADWAY SECTION. ALL WASTE MATERIAL SHALL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR. THE SITE SHALL BE PROOF-ROLLED PRIOR TO PLACEMENT OF FILL MATERIAL TO ENSURE STABILITY OF SUBGRADE.

14. CLEARING AND GRUBBING SHALL CONFORM TO SECTION 201 OF THE ISPWC.

15. EXCAVATION AND EMBANKMENT, INCLUDING COMPACTION REQUIREMENTS, SHALL CONFORM TO SECTION 202 OF THE ISPWC.

16. EXISTING ASPHALT PAVEMENT REMOVAL WILL REQUIRE FULL DEPTH SAWCUTTING TO FACILITATE THIS PROCESS. ALL WASTE ASPHALT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO WILL PROVIDE PERSONNEL AND EQUIPMENT TO HAUL OFF FOR DISPOSAL.

17. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO CONSTRUCTION. ALL TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETED IN CONFORMANCE WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE PLANS, AND JURISDICTIONAL AGENCY. CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO CONSTRUCTION FOR CONSTRUCTION SCHEDULING AND PHASING. THE OWNER SHALL PROVIDE ALL SIGNS, BARRICADES, AND FLASHING LIGHTS.

18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY INSTALL AND MAINTAIN ALL TEMPORARY TRAFFIC CONTROL DEVICES NEEDED FOR THE PROGRESSION OF THE WORK.

19. ALL PERMANENT TRAFFIC CONTROL DEVICES SHALL BE PROPERLY INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD AND THE JURISDICTIONAL AGENCY STANDARDS PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE STREETS.

20. CONSTRUCTION TRAFFIC CONTROL AND SURFACE REPAIR SHALL BE AN ONGOING PROCESS, REFER TO THE PROJECT MANUAL AND PLANS FOR REQUIREMENTS. MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO ALL EXISTING PUBLIC AND PRIVATE ROADS, PROPERTIES AND BUSINESSES DURING CONSTRUCTION. COORDINATE WITH ALL AFFECTED PROPERTY OWNERS AND JURISDICTIONAL AGENCIES, AND MINIMIZE DISRUPTION TO ACCESS AND OPERATIONS.

21. CONSTRUCTION SURVEY STAKING SHALL BE PROVIDED BY THE CONTRACTOR. ADDITIONAL STAKING OR ANY RE-STAKING FOR CONSTRUCTION RESULTING FROM DESTRUCTION OF STAKES OR MARKINGS AS A RESULT OF ACTIONS BY THE CONTRACTOR, HIS SUBCONTRACTORS, HIS EMPLOYEES, OR BY ACTS OF VANDALISM, SHALL BE PAID FOR BY THE CONTRACTOR. THE SURVEY AND STAKING REQUIREMENTS SHALL BE ESTABLISHED AND AGREED UPON BY THE CONTRACTOR, OWNER AND SURVEYOR PRIOR TO CONSTRUCTION.

22. RECORD DRAWINGS: CONTRACTOR WILL BE REQUIRED TO SUBMIT RECORD DRAWINGS PRIOR TO SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES A COPY OF THE APPROVED CONSTRUCTION PLANS, ON WHICH IS RECORDED THE ACTUAL LOCATION OF ALL UTILITIES CONSTRUCTED AND OTHER UTILITIES ENCOUNTERED. AT COMPLETION OF WORK, THE SET OF PRINTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL CORRECT, AMPLIFY AND DO ALL OTHER WORK AS REQUIRED BY THE ENGINEER TO COMPLETE THE AS-BUILT RECORD IN A MANNER SATISFACTORY TO THE ENGINEER.

23. CONTRACTOR'S HOURS OF OPERATION SHALL BE MONDAY-FRIDAY 7 AM TO 8 PM, SATURDAYS 8 AM TO 8 PM. NO WORK IS ALLOWED ON SUNDAY OR NATIONAL HOLIDAYS EXCEPT FOR INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMP'S.

EROSION & SEDIMENT CONTROL:

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LOCAL, STATE, AND FEDERAL PERMITS REQUIRED FOR STORM WATER POLLUTION PREVENTION AS A RESULT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN FOR REVIEW BY THE ENGINEER. IF THIS CONSTRUCTION PROJECT WILL DISTURB MORE THAN ONE ACRE, THE CONTRACTOR SHALL OBTAIN A COPY OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY'S NPDES GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY (OTHERWISE KNOWN AS THE CONSTRUCTION GENERAL PERMIT OR CGP) AND SUBMIT A "NOTICE OF INTENT" (NOI) [EPA FORM 3510-9 (6/03)] FOR PERMIT COVERAGE UNDER THE GENERAL PERMIT. THE CGP MAY BE FOUND ON THE INTERNET AT HTTP://WWW.EPA.GOV/NPDES/STORMWATER/ENOI.CFM. THE CGP DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH OTHER REGULATIONS OR CONTRACT REQUIREMENTS REGARDING STORM WATER POLLUTION PREVENTION INCLUDING BUT NOT LIMITED TO:PROTECTION OF SURFACE WATERS, PREVENTION OF SOIL RUNOFF INTO DRAINS, DUST CONTROL, PREVENTION OF TRACKING SOILS TO ADJACENT STREETS, FUEL CONTAINMENT, SPILL CONTROL, ETC.

25. THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTION TO MINIMIZE DEPOSITING AND TRACKING OF MUD, DIRT, SAND, GRAVEL, ROCK, OR DEBRIS ON TO THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEAN-UP OF THE PUBLIC RIGHTS-OF-WAY OR ADJACENT PRIVATE PROPERTY FROM ANY TRACKING OR DEPOSITING OF MUD, DIRT, SAND, GRAVEL, ROCK, OR DEBRIS.

26. NO DEBRIS, DIRT, AGGREGATE, OR EXCAVATED MATERIALS OR CONSTRUCTION SUPPLIES, SHALL BE PLACED ON THE PUBLIC RIGHT-OF-WAY UNLESS PERMITTED BY THE JURISDICTIONAL AGENCY , OR OTHER CONTROLLING ENTITY. IN ADDITION, PUBLIC APPROACHES SHALL NOT BE REMOVED, BLOCKED, OR OTHERWISE RENDERED UNUSABLE BY CONSTRUCTION ACTIVITY, EQUIPMENT OR MATERIALS, OR PORTABLE TOILETS, UNLESS A SAFE, USABLE ALTERNATE WALKWAY, WHICH MEETS THE DESIGN STANDARDS, IS PLACED ON THE SAME SIDE OF THE RIGHT-OF-WAY BY THE CONTRACTOR.

27. STAGING, PARKING AND SOIL STOCKPILE AREAS ARE ALLOWED WITHIN THE CONSTRUCTION ZONES. NO SOILS OR AGGREGATE STOCKPILES ARE PERMITTED ON UNDISTURBED PORTIONS OF PUBLIC RIGHT OF WAY WITHOUT PRIOR APPROVAL OF THE OWNER AND UNLESS EROSION CONTROL MEASURES ARE IN PLACE TO PREVENT DEPOSITION OF THE OFF-SITE SEDIMENT.

28. CONTRACTOR SHALL KEEP VEHICLES AND EQUIPMENT WITHIN GRADING LIMITS AND SHALL PRESERVE EXISTING VEGETATION OUTSIDE OF GRADING LIMITS TO THE CONDITION THAT EXISTED PRIOR TO CONSTRUCTION.

29. WATER FOR CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF, AND PROVIDED BY THE CONTRACTOR. ALL WATER USED ON-SITE SHALL BE NON-POLLUTED.

30. CONTRACTOR SHALL COMPLY WITH ALL PERTINENT FEDERAL, STATE AND LOCAL AGENCIES WHICH HAVE JURISDICTION OVER DUST FOR THE CONTROL PROCEDURES AND ADDITIVES USED IN DUST ABATEMENT. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A DUST CONTROL PLAN.

WATER/NON-POTABLE CROSSINGS:

31. THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS REQUIRED FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTION IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.46). THE HORIZONTAL SEPARATION OF NON-POTABLE SERVICES AND POTABLE WATER SERVICES OF POTABLE WATER MAINS SHALL BE A MINIMUM OF SIX (6) FEET. WHERE IT IS REQUIRED FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF WASTEWATER RULES (IDAPA 58.01.18). WATER / NON-POTABLE WATER LINE CONSTRUCTION IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO INSTALLATION OF THE STORM DRAIN LINE AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS ITEM.

IRRIGATION:

32. ALL IRRIGATION MAIN LINES, WATER LINES, STORM DRAINS, AND OTHER PIPING INSTALLED WITHIN ROADWAY SECTIONS SHALL MEET THE TRENCHING AND BACKFILL REQUIREMENTS AS SHOWN IN ISPWC STANDARD DRAWING SD-301.

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PRELIMINARY PLANS

NOT FOR CONSTRUCTION

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

AVENUE E; 4TH ST TO MAIN ST, KUNA
FEDERAL AID PROJECT NO. A020(063), KEY NO. 20063

NOTES

FILE : 10-17-142_G-002
JUB PROJ. # : 10-16-080
DRAWN BY: ##
DESIGN BY: ###
CHECKED BY: ###
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 2/2/2018

SHEET NUMBER:
G-002

Plot Date:4/13/2018 11:41 AM Plotted By: Matt Sipple
Date Created:12/5/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_G-002.DWG

LINE LEGEND

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
POWER / COMMUNICATIONS		
OVERHEAD POWER	OHP	OHP
UNDERGROUND POWER	UP	UP
OVERHEAD TELEPHONE	OHT	OHT
UNDERGROUND TELEPHONE	UT	UT
FIBER OPTIC	F/O	F/O
CABLE TELEVISION	CTV	CTV
UNDERGROUND POWER, TEL, CABLE TV		P,T,CTV
UNDERGROUND POWER, TEL, CABLE TV, GAS		P,T,CTV,G
STORM DRAIN		
STORM DRAIN (GENERAL)	SD	SD
STORM DRAIN	X"SD	X"SD
ROOF DRAIN	RD	RD
SANITARY SEWER		
SANITARY SEWER (GENERAL)	SS	SS
SANITARY SEWER	X"SS	X"SS
SANITARY SEWER SERVICE	SS SS	SS SS
SEWER FORCE MAIN	FM	FM
WATER		
WATER (GENERAL)	W	W
WATER (SPECIFIED SIZE)	X"W	X"W
WATER SERVICE	WS WS	WS WS
IRRIGATION		
IRRIGATION	IRR	IRR
GRAVITY IRRIGATION	GIRR	GIRR
PRESSURE IRRIGATION	PIRR	PIRR
POTABLE WATER	PW	PW
NON-POTABLE WATER	NPW	NPW
GAS		
NATURAL GAS	G	G
NATURAL GAS SERVICE	G G	G G
HIGH PRESSURE GAS	HPG	HPG
LIQUID GAS	LG	LG
UTILITY		
CHLORINE LINE	CHL	CHL
INDUSTRIAL WASTE WATER	IWW	IWW
DRAIN LINE		DL

LINE DESCRIPTION	PROPOSED LINE	EXISTING LINE
BOUNDARY		
PROPERTY LINE	P/L	P/L
PROPERTY LINE		
RIGHT OF WAY	R/W	R/W
TEMPORARY EASEMENT	T/E	T/E
PERMANENT EASEMENT	P/E	P/E
TOWNSHIP AND RANGE		
SECTION LINE		
QUARTER SECTION LINE		
1/16 SECTION LINE		
STATE LINE		
COUNTY LINE		
SITE		
FENCE	X	X
MAJOR CONTOUR	2521	
MINOR CONTOUR		
GRADE BREAK		GB
TOP OF BANK		TOB
TOE OF SLOPE		TOE
CUT LIMITS		
FILL LIMITS		
DITCH		
STORM SWALE		
EDGE OF WATER		
HIGH WATER		
WETLAND		WET
WETLAND BOG		BOG
WETLAND MARSH		MRSH
WETLAND SWAMP		SWMP
ROADWAY		
ROAD SHOULDER		
ROAD CENTERLINE		
ROAD ASPHALT		EP
ROAD GRAVEL		EG
TOP BACK OF CURB		
LIP OF GUTTER		
LANDSCAPING LIMITS	LS	LS

SHEET NUMBERING

SAMPLE: C–101

C – 1 01

- DISCIPLINE DESIGNATOR
- SHEET TYPE DESIGNATOR
- SHEET SEQUENCE NUMBER

DISCIPLINE DESIGNATORS

DISCIPLINE	DESIGNATOR	DESCRIPTION
GENERAL	G	ALL GENERAL
	GI	GENERAL INFORMATION
	GC	GENERAL CONTRACTUAL
	GR	GENERAL RESOURCE
SURVEY/MAPPING	V	ALL SURVEY
GEOTECHNICAL	B	ALL GEOTECHNICAL
CIVIL	C	ALL CIVIL
LANDSCAPE	L	ALL LANDSCAPE
STRUCTURAL	S	ALL STRUCTURAL
ARCHITECTURAL	A	ALL ARCHITECTURE
EQUIPMENT	Q	ALL EQUIPMENT
MECHANICAL	M	ALL MECHANICAL
ELECTRICAL	E	ALL ELECTRICAL
PLUMBING	P	ALL PLUMBING
PROCESS	D	ALL PROCESS
RESOURCE	R	ALL RESOURCE

SHEET TYPE DESIGNATORS

DESIGNATOR	SHEET TYPE
0	GENERAL (SYMBOLS, LEGENDS, NOTES, ETC.)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS, PROFILES, COMBINED PLAN & PROFILES
3	SECTIONS (SECTIONAL VIEWS)
4	LARGE–SCALE VIEWS (PLANS, ELEVATIONS, ECT.)
5	DETAILS OR COMBINED DETAILS AND SECTIONS
6	SCHEDULES AND DIAGRAMS
7	USER DEFINED
8	USER DEFINED
9	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOS)

SECTION AND DETAIL IDENTIFIERS

NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.

	SECTION IDENTIFICATION	DETAIL IDENTIFICATION
CALLOUT	SECTION LETTER: A; SHEET NUMBER WHERE DETAIL DRAWING IS LOCATED: C-501	DETAIL NUMBER: A; SHEET NUMBER WHERE DETAIL DRAWING IS LOCATED: C-501
LABEL	SECTION LETTER: A; SECTION; SCALE:	DETAIL NUMBER: 1; DETAIL; SCALE:

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PRELIMINARY PLANS

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NO.	DESCRIPTION	BY	APR.	DATE
	REVISION			

AVENUE E; 4TH ST TO MAIN ST, KUNA
FEDERAL AID PROJECT NO. A020(063), KEY NO. 20063

LEGEND

FILE : 10-17-142_G-003
JUB PROJ. # : 10-16-080
DRAWN BY: ##
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CHECKED BY: ###

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 2/2/2018

SHEET NUMBER:

G-003

Plot Date:4/13/2018 11:41 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_G-003.DWG

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
SURVEY		
CAP (ALUMINUM)		
CAP (BRASS)		
CHISELED X		
CTRL PT GENERIC		
CTRL PT ½" REBAR	1/2" PIN CONTROL PT	
CTRL PT ⅝" REBAR	5/8" PIN CONTROL PT	
CTRL PT 60D NAIL	60D	
CTRL PT HUB & TACK	HT	
CTRL PT PK NAIL	PK	
CTRL PT TEMP BENCH MARK	TBM	
NAIL		
NAIL AND TAG	N/T	
NAIL (PK)	PK	
BOLT		
DRILL STEEL		
REBAR (½")		
REBAR (⅝")		
STAINLESS STEEL ROD		
IRON PIPE		
RAILROAD SPIKE		
R/W MONUMENT		
STONE		
SECTION CORNER. MON.	22 15 21 16	
SECTION QUARTER MON.	15 22	
SITE		
BOLLARD		
BOULDER		
DRINKING FOUNTAIN	DF	DF
FLAGPOLE	F	F
GATE		
MAIL BOX	M	M
PARKING METER	PM	PM
POST		
SIGN		
SPOT ELEVATION		
TREE (SHRUB)		
TREE (STUMP)		
TREE (CONIFEROUS)		
TREE (DECIDUOUS)		
TEST HOLE	TH	
WELL	W	
WELL (MONITORING)	M	M

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
UTILITIES		
MANHOLE (GENERIC)		
PRESSURE CLEAN OUT AT GRADE	PCO	PCO
THRUST BLOCK		
VAULT	V	V
COMMUNICATION		
TELE. MANHOLE	T	
TELE. PEDASTAL	T	T
TELE. POLE		
TV PEDASTAL	TV	TV
GUY WIRE		
DOMESTIC WATER		
FIRE HYDRANT		
SPIGOT		
YARD HYDRANT		
WATER MANHOLE	W	
WATER METER		
WATER VALVE	W	W
ELECTRIC		
ELEC. MANHOLE	E	
ELEC. METER	E	E
ELEC. TRANS.	E	E
JUNCTION BOX	J	J
POWER POLE		
POWER STUB	E	E
STREET LIGHT		
TRAFFIC SIGNAL POLE		
IRRIGATION		
IRRIGATION VALVE	IRR	IRR
IRRIGATION VALVE BOX	I	I
SPRINKLER		
NATURAL GAS		
GAS METER	G	G
GAS VALVE	G	G
SANITARY SEWER		
CLEANOUT		
SEWER STUB	S	S
SS MANHOLE		
STORM DRAIN		
CATCH BASIN		
DRY WELL	DW	DW
FLARE END		
GREASE TRAP		
SD MANHOLE	D	

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
FITTINGS		
BEND (11.25°)		
BEND (22.5°)		
BEND (45°)		
BEND (90°)		
CAP		
COUPLING		
CROSS		
REDUCER (CONCENTRIC)		
REDUCER (ECCENTRIC)		
TEE		
TRUE UNION		
WYE		
VALVES		
AIR VALVE	A	A
BLOW OFF	B	B
COMBO VALVE	C	C
BALL VALVE (N.C.)		
BALL VALVE (N.O.)		
BUTTERFLY VALVE		
CHECK VALVE		
CHECK VALVE (FLANGE)		
CHECK VALVE (MJ)		
GATE VALVE		
PLUG VALVE (N.C.)		
PLUG VALVE (N.O.)		
ROAD MARKINGS		
TURN ARROW		
ARROW STRAIGHT		
ARROW STRAIGHT/TURN		
BICYCLE ROUTE		
CAR		
HANDICAP SYMBOL		
ROADWAY		
INTERSTATE ROUTE	25	
MAST ARM		
PEDESTRIAN SIGNAL		
STATE ROUTE	14	
TRAFFIC LIGHT		

SYMBOL DESCRIPTION	EXISTING SYMBOL	PROPOSED SYMBOL
ROADWAY (CONT.)		
TYPE 2 BARRICADE		
US ROUTE	287	
TRAFFIC ATTENUATOR		
JERSEY BARRIER		

ABBREVIATIONS

ASPH	ASPHALT
ASSY	ASSEMBLY
>	ANGLE
@	AT (MEASUREMENTS)
BLDG	BUILDING
BM	BENCH MARK
BSC	BITUMINOUS SURFACE COURSE
BSW	BACK OF SIDEWALK
BW	BOTH WAYS
C	CHANNEL (STRUCTURAL)
C/L	CENTER LINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
CPLG	COUPLING
CU FT	CUBIC FEET
CU YD	CUBIC YARD
DEG OR °	DEGREE
DET	DETAIL
DIA OR ø	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTRIBUTION
DWG	DRAWING
EA	EACH
ELB	ELBOW
ELEV	ELEVATION
EW	EACH WAY
EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FLG	FLANGE
FT OR '	FEET
GV	GATE VALVE
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IN OR "	INCH
LB OR #	POUND
LF	LINEAL FEET
LN	LINEAL
MAX	MAXIMUM
MIN	MINIMUM
NO OR #	NUMBER
PE	POLYETHYLENE
PL	PLATE
PL	PROPERTY LINE
PVC	POLYVINYL–CHLORIDE
R	RADIUS
RP	RADIUS POINT
R&R	REMOVE & REPLACE
REM	REMOVE
REQ'D	REQUIRED
REV	REVISION
R/W	RIGHT–OF–WAY
SWCT	SAWCUT
S	SLOPE
SPEC	SPECIFICATION
STA	STATION
STD	STANDARD
STL	STEEL
ST STL	STAINLESS STEEL
TBC	TOP BACK OF CURB
TYP	TYPICAL
TFC	TOP FACE OF CONCRETE
TOR	TOP OF RAMP
W/	WITH
W/O	WITHOUT
W/REQ'D	WHERE REQUIIRED

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

AVENUE E; 4TH ST TO MAIN ST, KUNA
FEDERAL AID PROJECT NO. A020(063), KEY NO. 20063

SYMBOLS

FILE : 10-17-142_G-004
JUB PROJ. # : 10-16-080
DRAWN BY: ##
DESIGN BY: ###
CHECKED BY: ###

ONE INCH
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LAST UPDATED: 2/2/2018

SHEET NUMBER:

G-004

Plot Date:4/13/2018 11:41 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_G-004.DWG

PROPERTY MONUMENTS

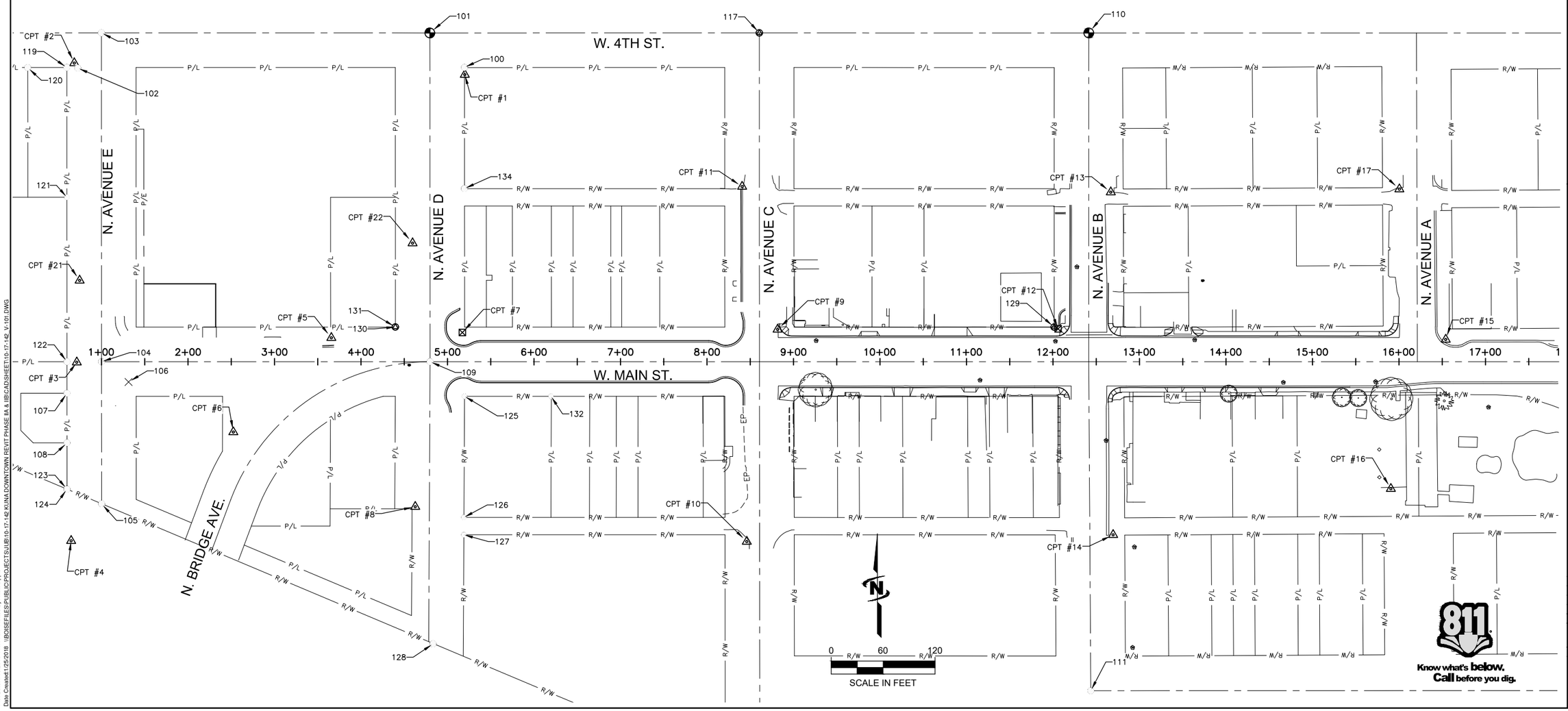
CPT #	NORTHING	EASTING	DESCRIPTION
100	665903.44	2447517.19	P5 NO CAP BENT TIED POR
101	665944.33	2447478.35	BRC 2.5IN ILLEGIBLE
102	665914.76	2447070.30	P5 NO CAP
103	665954.75	2447098.70	P5 12459
104	665574.73	2447088.50	P5 12459
105	665410.52	2447084.14	P5 12459
106	665550.46	2447119.08	X 3/4IN SQUARE BOLT
107	665539.33	2447047.56	P5 12459
108	665481.95	2447046.04	P5 12459
109	665564.38	2447468.22	P5 ILLEGIBLE
110	665923.59	2448239.80	BRC 2.5IN 887
111	665163.40	2448221.45	P5 NO CAP
117	665933.99	2447859.09	PK/WASHER
119	665915.87	2447057.62	P5 12459
120	665916.96	2447012.45	P5 12459
121	665765.86	2447053.64	P4 ILLEGIBLE
122	665575.86	2447048.56	P5 12459
123	665428.64	2447044.52	P5 ILLEGIBLE
124	665428.59	2447044.62	P5 7314
125	665523.38	2447506.93	P4 ILLEGIBLE –.30 BELOW BSW

PROPERTY MONUMENTS

CPT #	NORTHING	EASTING	DESCRIPTION
126	665383.38	2447502.40	P4 4999
127	665363.30	2447501.82	P4 ILLEGIBLE
128	665238.26	2447462.82	P5 NO CAP BENT TIED TOP
129	665584.75	2448190.49	PK
130	665605.51	2447429.12	P4 NO CAP
131	665605.58	2447429.13	PK
132	665520.57	2447606.90	P4 4999
134	665763.32	2447513.31	P5

SURVEY CONTROL

CPT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	665894.98	2447517.35	2700.61	CP5
2	665920.72	2447066.38	2695.56	CP5
3	665574.78	2447059.94	2695.20	CPK/WASHER
4	665368.66	2447047.75	2689.56	CP5
5	665595.06	2447354.84	2700.01	CP5
6	665489.20	2447238.65	2697.00	CPK/WASHER
7	665597.14	2447506.45	2701.73	CHX
8	665397.29	2447446.54	2698.87	CPK/WASHER
9	665590.70	2447870.84	2702.32	CPK/WASHER
10	665346.55	2447828.54	2699.94	CP5
11	665756.91	2447834.39	2701.11	CP5
12	665582.56	2448195.05	2702.69	CHX
13	665738.82	2448260.22	2700.22	CPK/WASHER
14	665342.82	2448252.16	2700.50	CPK/WASHER
15	665558.10	2448642.70	2704.08	CPK/WASHER
16	665387.35	2448574.61	2707.48	CPK/WASHER
17	665733.32	2448593.78	2701.37	CPK/WASHER
21	665669.33	2447065.81	2696.22	CPK
22	665701.92	2447451.67	2702.23	CPK



Plot Date:4/13/2018 11:41 AM Plotted By: Matt Sipple
Date Created:12/5/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_V-101.DWG

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

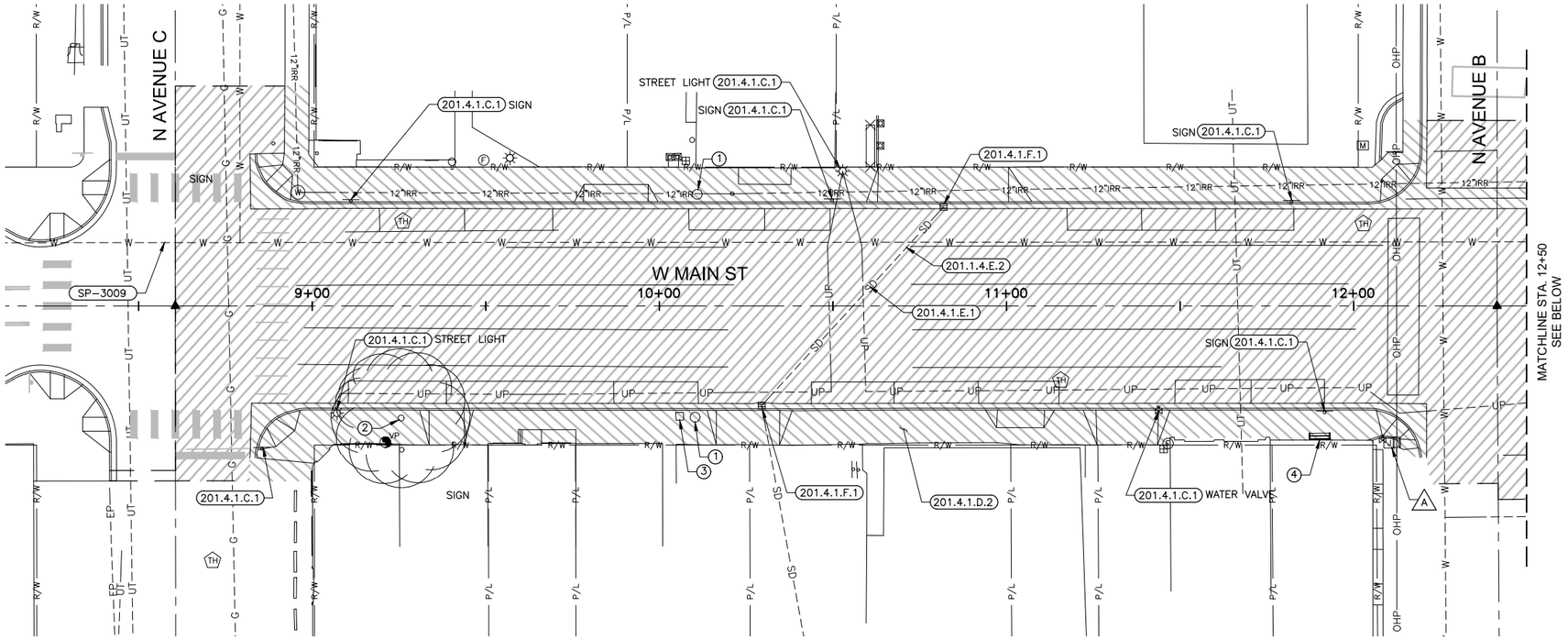
OWNERSHIP/SURVEY CONTROL MAP

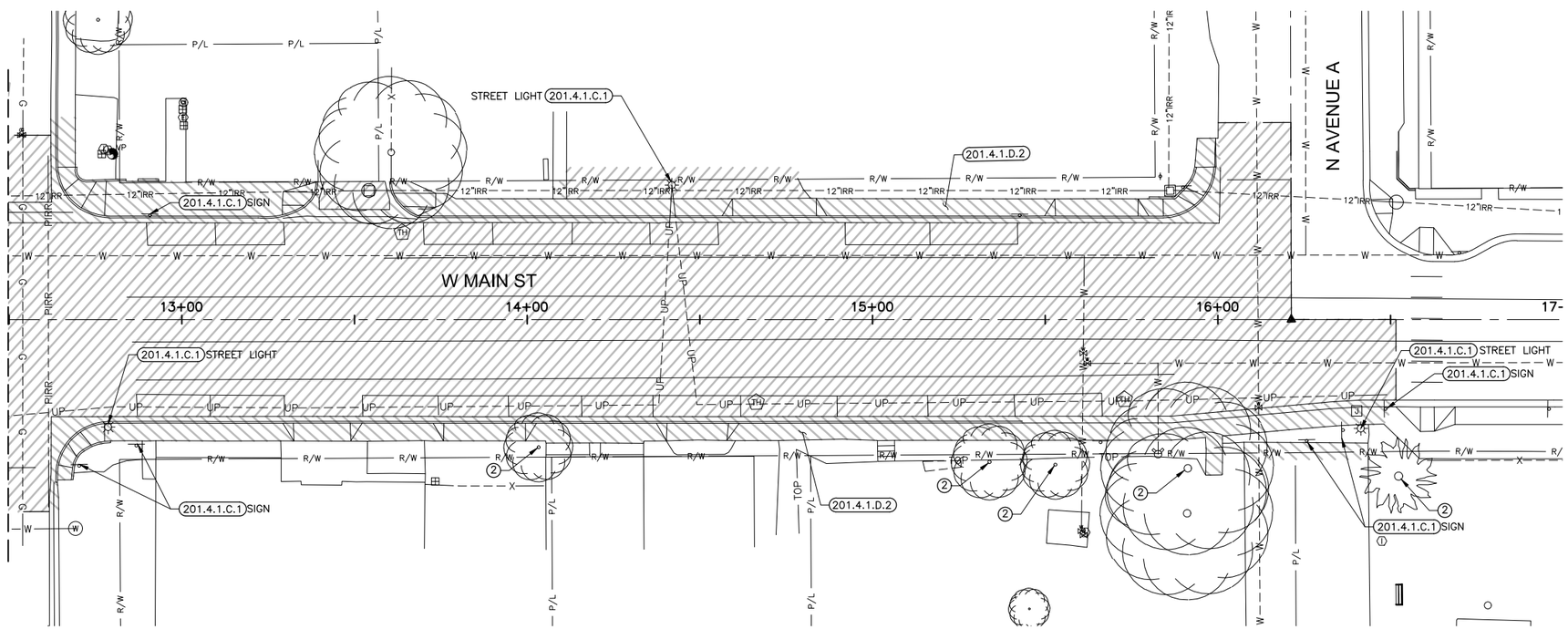
FILE : 10-17-142_V-101
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 4/4/2018

SHEET NUMBER:
V-101





LEGEND:

- BITUMINOUS SURFACE REMOVAL
- CONCRETE SIDEWALK/APPROACH REMOVAL

201.4.1.C.1	REMOVAL OF OBSTRUCTIONS (BY CONTRACTOR) SEE NOTE 1.
201.4.1.D.1	REMOVAL OF BITUMINOUS SURFACE
201.4.1.D.2	REMOVAL OF EXISTING CONCRETE
201.4.1.E.1	REMOVAL OF EXISTING STORM DRAIN
201.4.1.E.2	REMOVAL OF ABANDONED WATER LINE AND APPURTENANCES
201.4.1.F.1	REMOVAL OF EXISTING CATCH BASIN
SP-3009	CAP EXISTING WATER LINE
SP-3010	NON-POTABLE WATER LINE CROSSING

NOTES:
1. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXISTING STREET LIGHTS INCLUDING ALL CONDUIT AND WIRING, REMOVING EXISTING STORM DRAIN STRUCTURE, AND REMOVING EXISTING SIGNS. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REMOVAL OF OBSTRUCTIONS (BY CITY)

1. REMOVE EXISTING PLANTER
2. REMOVE EXISTING TREE
3. REMOVE EXISTING TRASH STRUCTURE
4. REMOVE EXISTING BENCH

UTILITY REMOVAL/RELOCATIONS (BY OTHERS)

A. REMOVE/RELOCATE EXISTING POWER POLE AND EXISTING OVERHEAD POWER BY IDAHO POWER

0 20 40
SCALE IN FEET

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

DEMOLITION PLAN

FILE : 10-17-142_C-101X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS
ONE INCH
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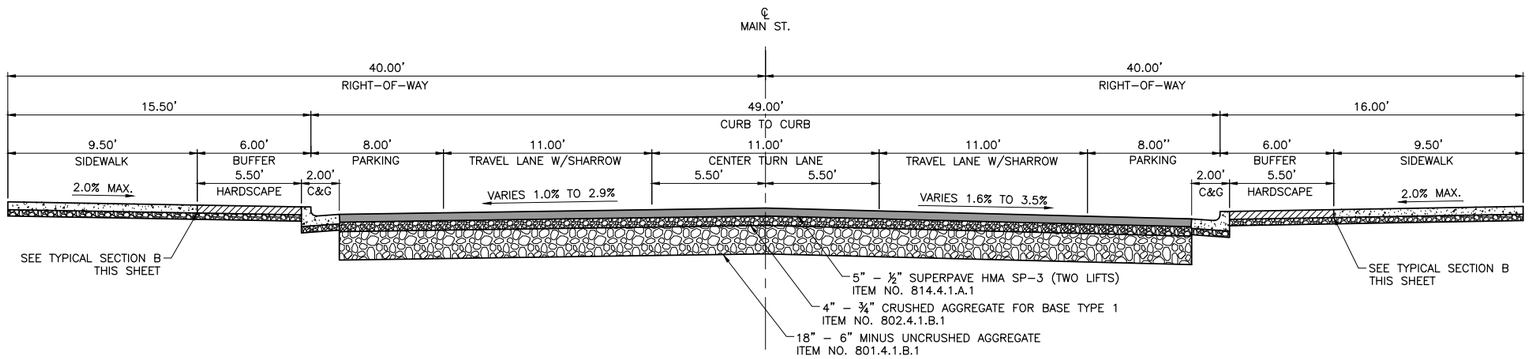
LAST UPDATED: 4/13/2018

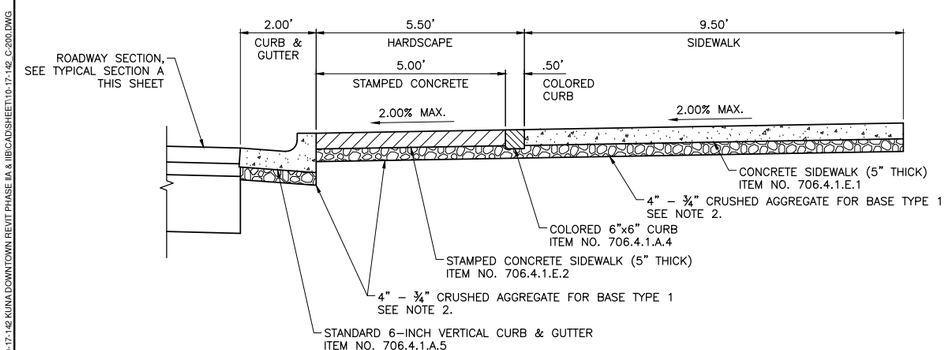
SHEET NUMBER:
C-101

Plot Date:4/13/2018 11:42 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-101X.DWG

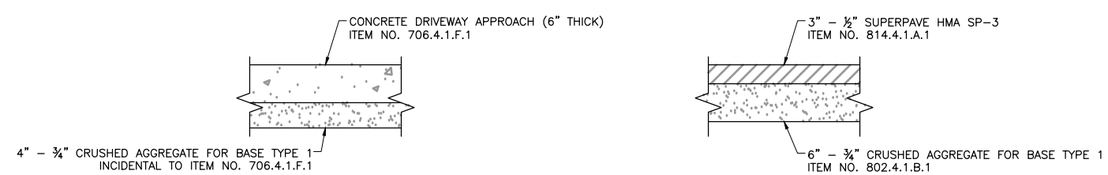


A TYPICAL SECTION - W. MAIN STREET
SCALE: 1" = 4' (FULL SIZE)

NOTES:
1. CONTRACTOR SHALL COMPACT SUBGRADE, UNCRUSHED BASE AGGREGATE AND CRUSHED AGGREGATE TO CLASS A COMPACTION REQUIREMENTS AS OUTLINED IN ISPWC SECTION 202.3.8 AND 202.3.9 PLANT MIX PAVEMENT COMPACTION SHALL MEET THE REQUIREMENTS OF ISPWC SECTION 810.
2. ¾" CRUSHED AGGREGATE FOR BASE TYPE 1 SHALL BE CONSIDERED AN INCIDENTAL EXPENSE OF THE SIDEWALK, HARDSCAPE, AND CURB & GUTTER AND SHALL BE INCLUDED IN THE RESPECTIVE UNIT COSTS OF THOSE BID ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE FOR ¾" CRUSHED AGGREGATE FOR BASE TYPE 1.
3. CONSTRUCTION JOINTS SHALL BE PLACED IN THE SIDEWALK AT 10 FT MAXIMUM SPACING (TYPICAL). SIDEWALK EXPANSION JOINTS (½" JOINT MATERIAL) SHALL BE PLACED AT MAXIMUM 40' SPACING.
4. CONSTRUCTION JOINTS FOR CURB & GUTTER SHALL BE PLACED AT 10 FT MAXIMUM SPACING.



B TYPICAL SIDEWALK SECTION - W. MAIN STREET
SCALE: 1" = 2' (FULL SIZE)



CONCRETE DRIVEWAY SECTION

ASPHALT DRIVEWAY SECTION

C TYPICAL DRIVEWAY SECTIONS
SCALE: N.T.S.

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11349
STATE OF IDAHO
TIMOTHY A. BLAIR

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

TYPICAL SECTIONS

FILE : 10-17-142_C-200
JUB PROJ. # : 10-17-142
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LAST UPDATED: 4/13/2018

SHEET NUMBER:
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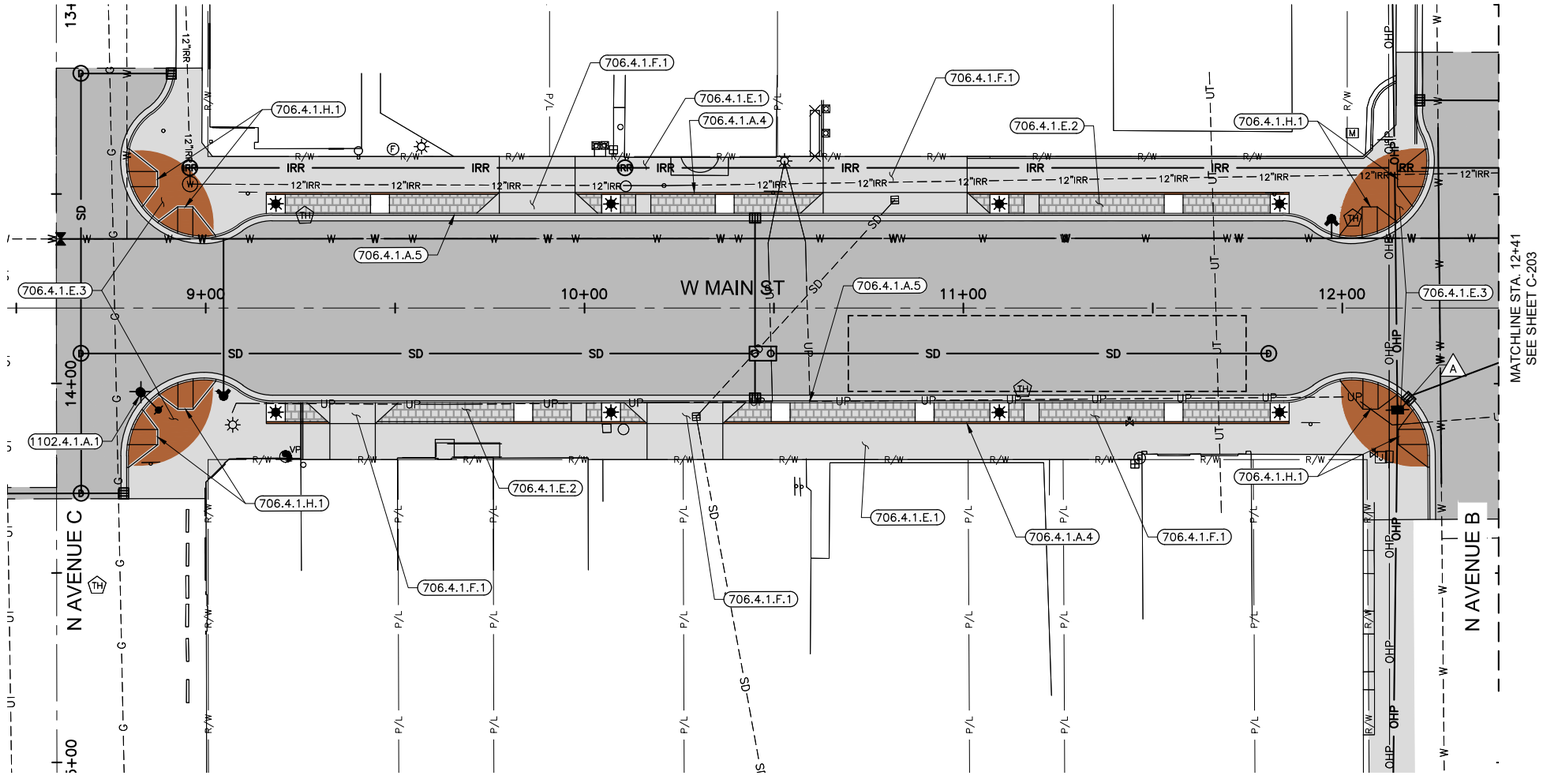
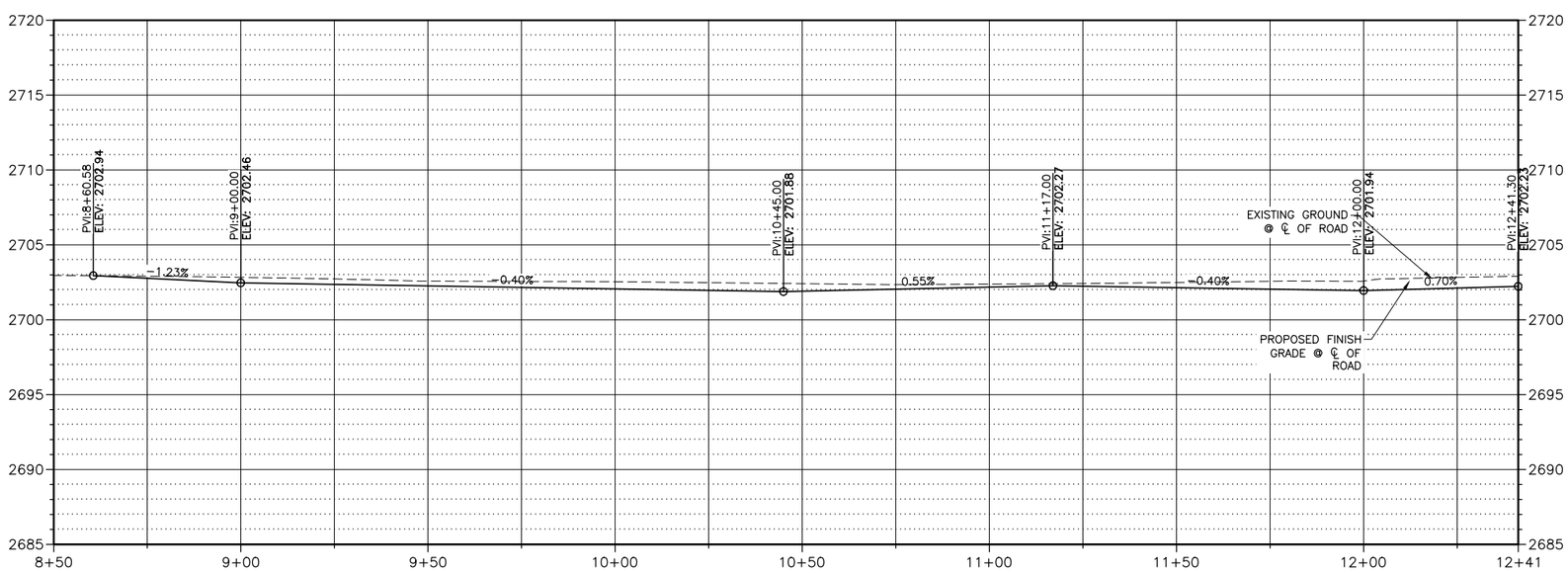
Plot Date:4/13/2018 11:42 AM Plotted By: Matt Sipple
Date Created:4/4/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-200.DWG





LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- STAMPED CONCRETE
- COLORED CURB

602.4.1.G.1	4" SIDEWALK TRENCH DRAIN
706.4.1.A.4	COLORED 6"x6" CURB
706.4.1.A.5	STANDARD 6-INCH VERTICAL CURB & GUTTER
706.4.1.E.1	CONCRETE SIDEWALK (5" THICK)
706.4.1.E.2	STAMPED CONCRETE SIDEWALK (5" THICK)
706.4.1.E.3	COLORED CONCRETE SIDEWALK (5" THICK)
706.4.1.F.1	CONCRETE DRIVEWAY APPROACH (6" THICK)
706.4.1.H.1	PEDESTRIAN RAMP W/DETECTABLE WARNING DOMES, TYPE A
801.4.1.B.1	6" MINUS UNCRUSHED AGGREGATE BASE
802.4.1.B.1	¾" CRUSHED AGGREGATED FOR BASE TYPE 1
814.4.1.A.1	½" SUPERPAVE HMA SP-3
1102.4.1.A.1	STREET LIGHT, PER ISPWC SD-1116
1107.4.1.C.1	SODDING
2020.4.1.F.1	REFERENCE AND RESET MONUMENT
2030.4.1.A.1	MANHOLE, TYPE B, ADJUST TO GRADE

UTILITY NOTES:

A — REMOVE/RELOCATE EXISTING POWER POLE AND EXISTING OVERHEAD POWER BY IDAHO POWER

NOTES:

1. REFER TO DEMOLITION PLANS FOR DIMENSIONS/LIMITS OF SAWCUT AND PAVEMENT REMOVALS.
2. SEE GRADING PLANS FOR ADDITIONAL SIDEWALK AND CURB & GUTTER DETAILS.

HORZ 0 20 40
VERT 0 2 4
SCALE IN FEET

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NO.	DESCRIPTION	BY	APR.	DATE
1.	ITD REVIEW	BDS	BDS	4/16/18

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

PLAN

FILE : 10-17-142_C-20X
JUB PROJ. # : 10-17-142
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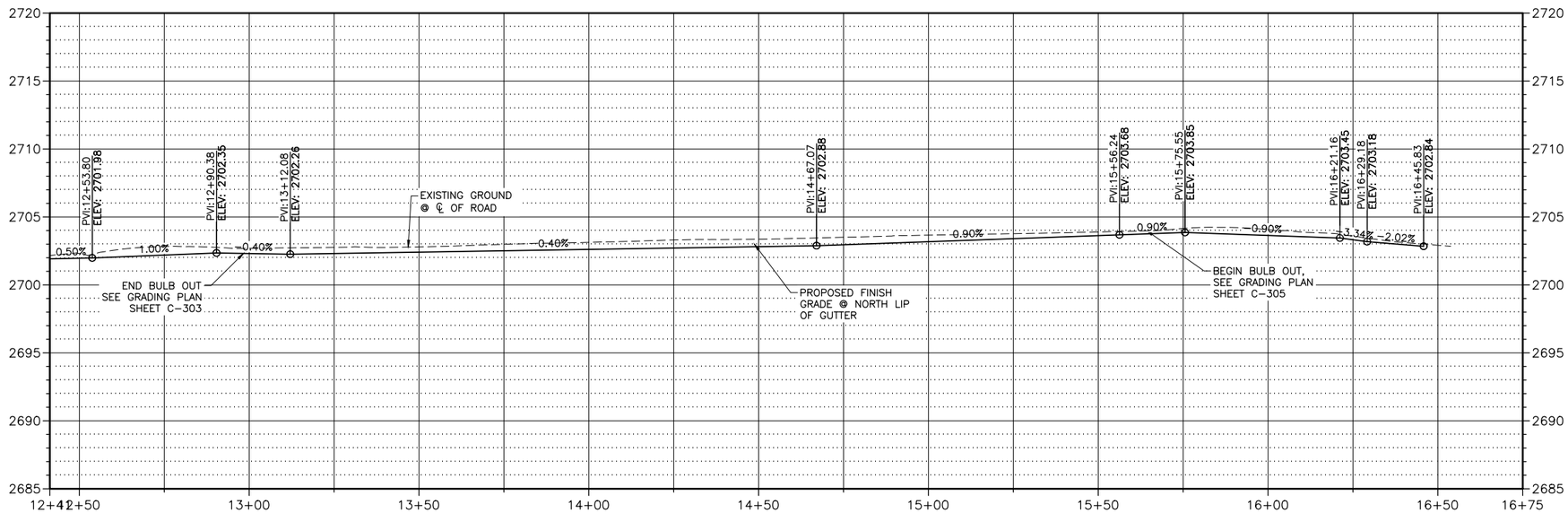
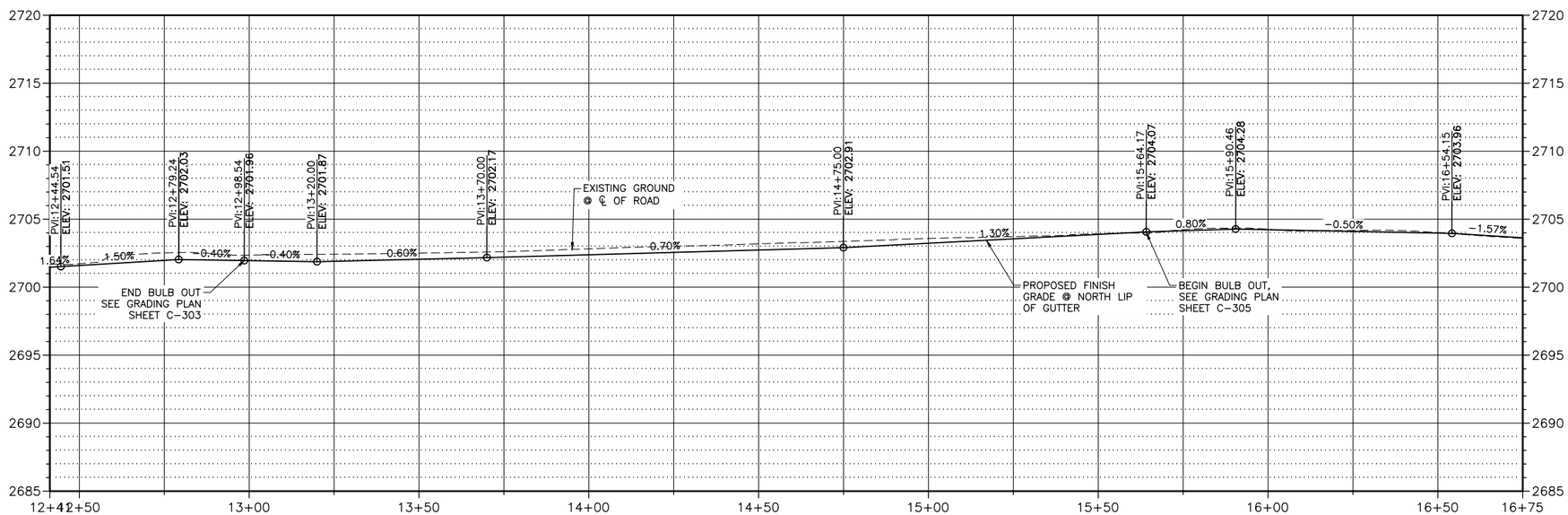
SHEET NUMBER:
C-201

Plot Date:6/18/2018 1:46 PM Plotted By: Matt Sipple
Date Created:12/5/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-20X.DWG



MAIN STREET NORTH LIP OF GUTTER PROFILE (AVENUE B TO AVENUE A)



MAIN STREET SOUTH LIP OF GUTTER PROFILE (AVENUE B TO AVENUE A)

Plot Date:6/18/2018 1:45 PM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-20X.DWG

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

PROFILE

FILE : 10-17-142_C-20X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

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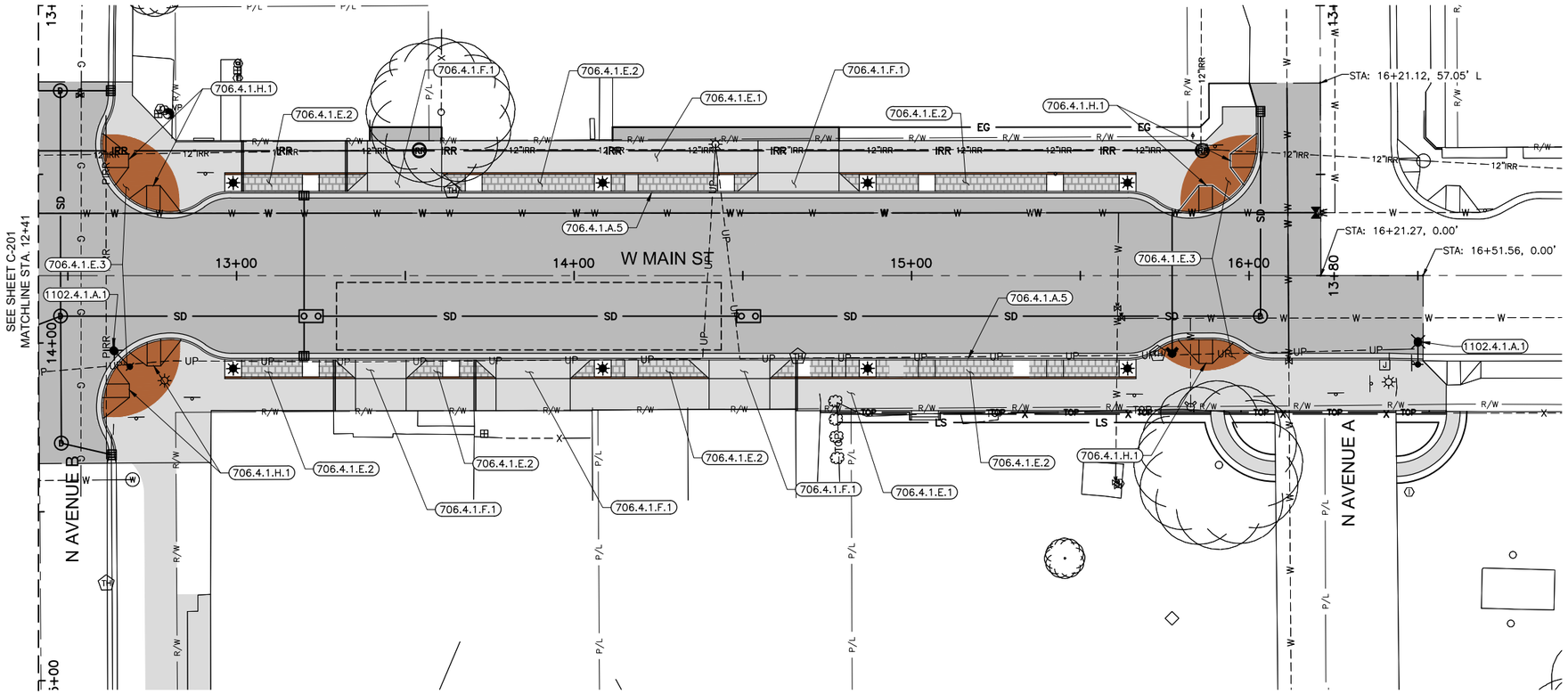
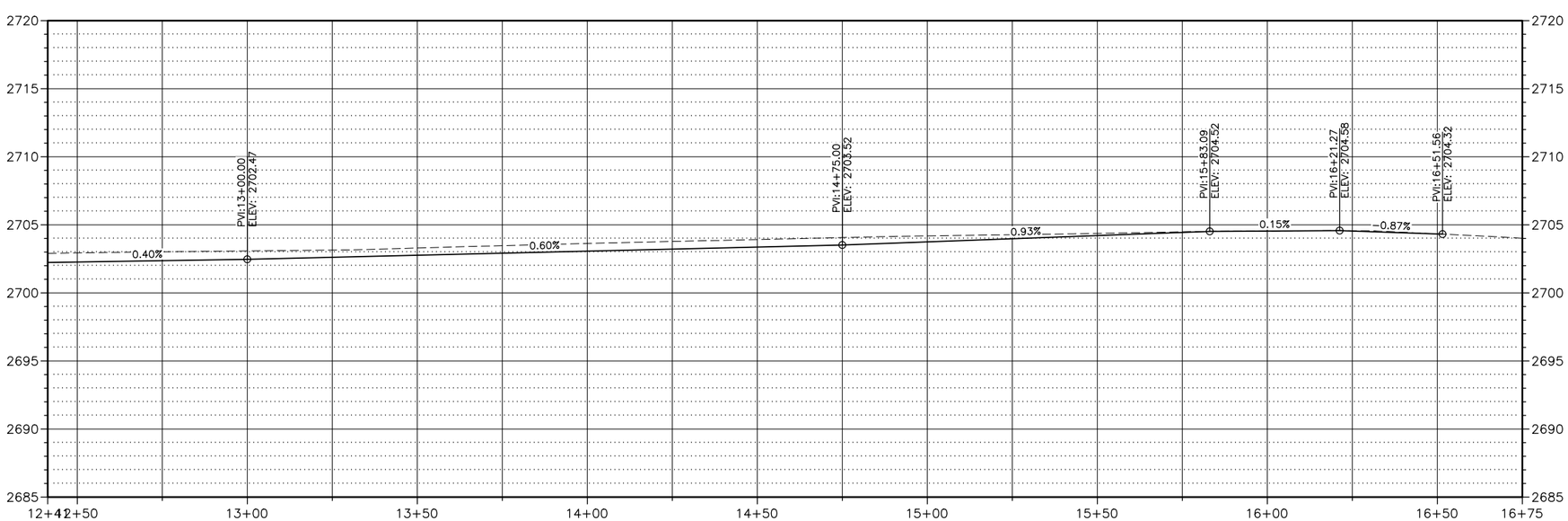
LAST UPDATED: 6/14/2018

SHEET NUMBER:
C-202





LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- STAMPED CONCRETE
- COLORED CURB

602.4.1.G.1	4" SIDEWALK TRENCH DRAIN
706.4.1.A.4	COLORED 6"x6" CURB
706.4.1.A.5	STANDARD 6-INCH VERTICAL CURB & GUTTER
706.4.1.E.1	CONCRETE SIDEWALK (5" THICK)
706.4.1.E.2	STAMPED CONCRETE SIDEWALK (5" THICK)
706.4.1.E.3	COLORED CONCRETE SIDEWALK (5" THICK)
706.4.1.F.1	CONCRETE DRIVEWAY APPROACH (6" THICK)
706.4.1.H.1	PEDESTRIAN RAMP W/DETECTABLE WARNING DOMES, TYPE A
801.4.1.B.1	6" MINUS UNCRUSHED AGGREGATE BASE
802.4.1.B.1	¾" CRUSHED AGGREGATED FOR BASE TYPE 1
814.4.1.A.1	½" SUPERPAVE HMA SP-3
1102.4.1.A.1	STREET LIGHT, PER ISPWC SD-1116
1107.4.1.C.1	SODDING
2020.4.1.F.1	REFERENCE AND RESET MONUMENT
2030.4.1.A.1	MANHOLE, TYPE B, ADJUST TO GRADE

NOTES:

1. REFER TO DEMOLITION PLANS FOR DIMENSIONS/LIMITS OF SAWCUT AND PAVEMENT REMOVALS.
2. SEE GRADING PLANS FOR ADDITIONAL SIDEWALK AND CURB & GUTTER DETAILS.

HORZ 0 20 40
VERT 0 5 10
SCALE IN FEET

Know what's below. Call before you dig.

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NO.	DESCRIPTION	BY	APR.	DATE
	REVISION			

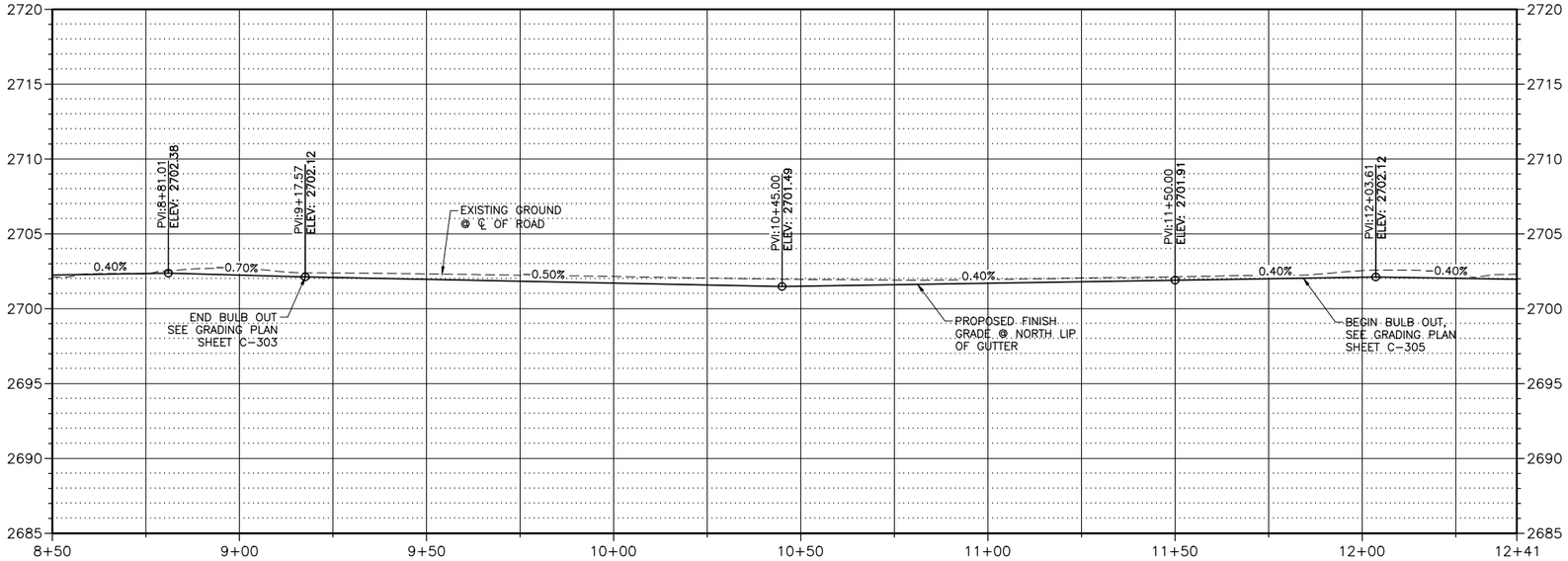
SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

PLAN

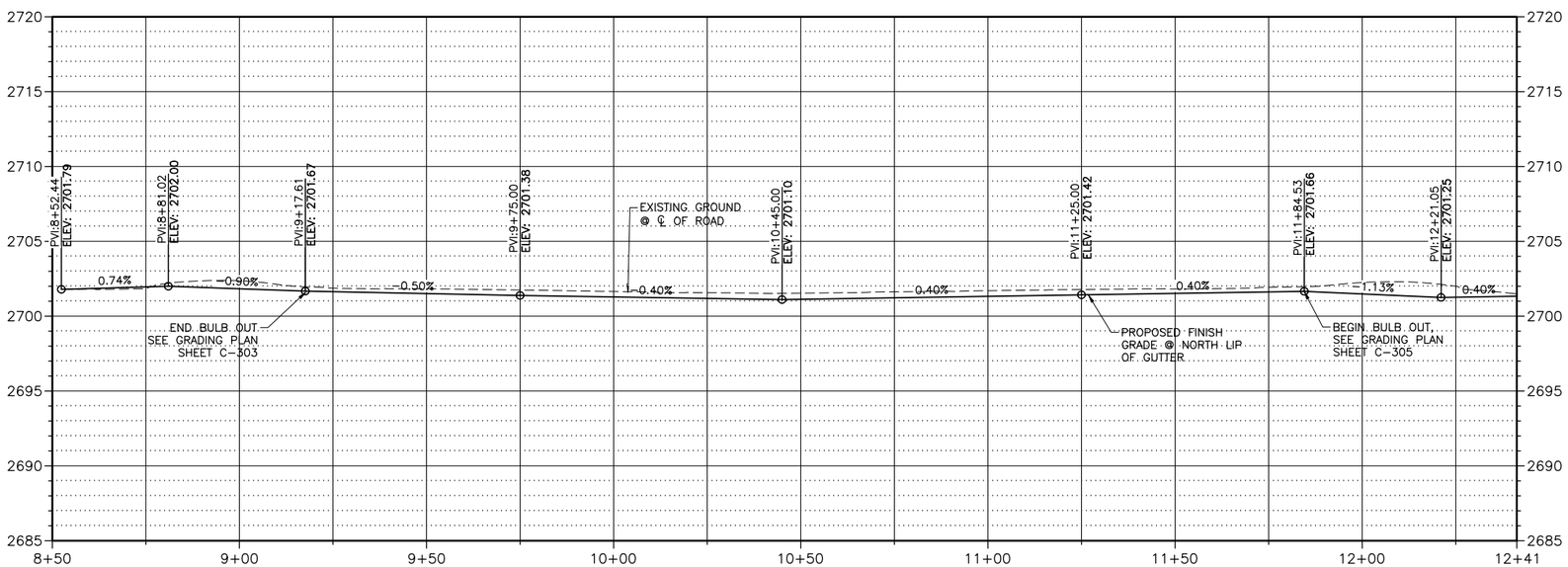
FILE : 10-17-142_C-20X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 6/14/2018

SHEET NUMBER:
C-203

Plot Date:6/18/2018 1:45 PM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-20X.DWG



MAIN STREET NORTH LIP OF GUTTER PROFILE (AVENUE C TO AVENUE B)



MAIN STREET SOUTH LIP OF GUTTER PROFILE (AVENUE C TO AVENUE B)

Plot Date:6/18/2018 1:45 PM Plotted By: Matt Sipple
Date Created:12/5/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-20X.DWG

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NO.	DESCRIPTION	BY	APR.	DATE

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

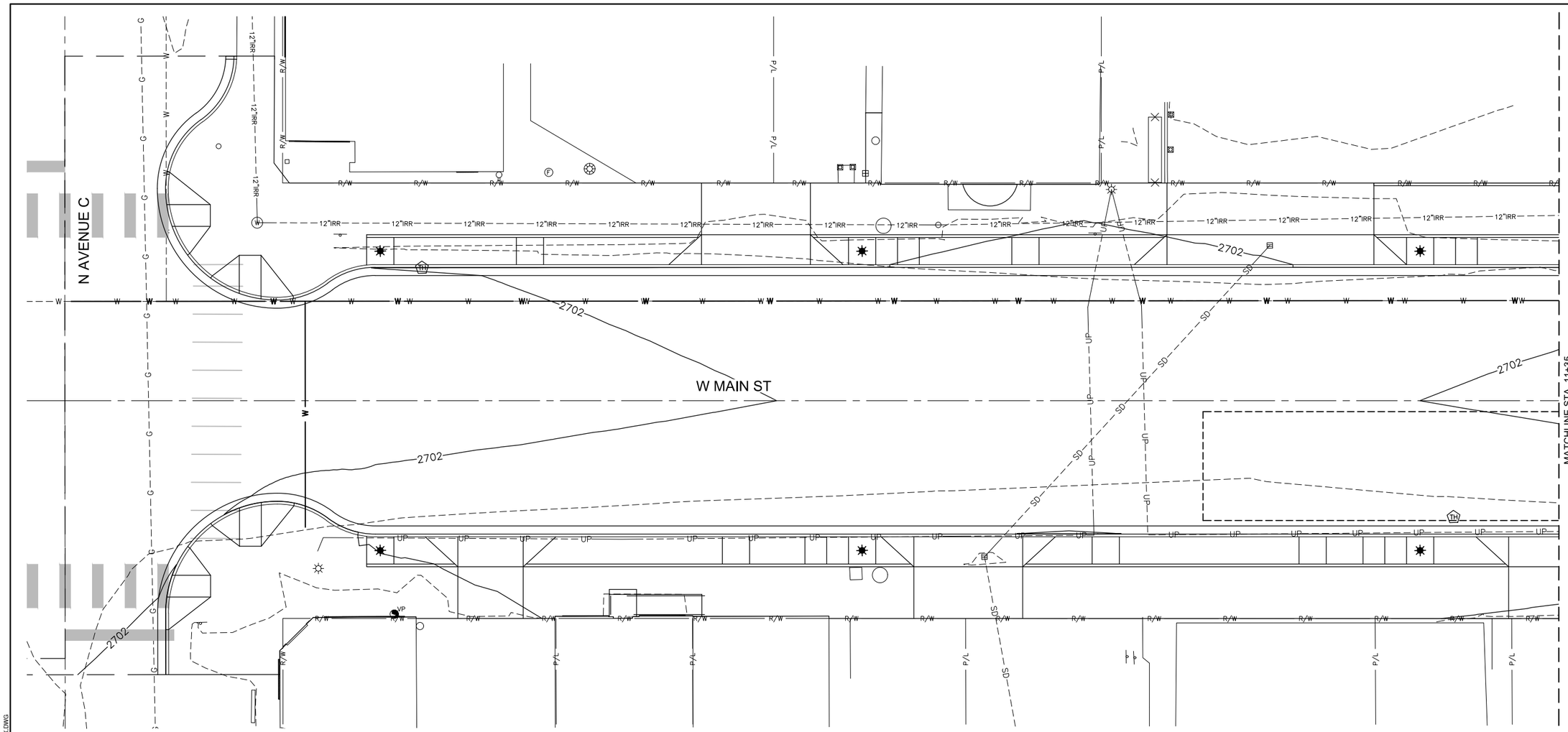
PROFILE

FILE : 10-17-142_C-20X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 6/14/2018

SHEET NUMBER:
C-204



CURVE TABLE						
CURVE #	LENGTH	RADIUS	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH

N

0 5 10

SCALE IN FEET

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

GRADING PLAN

FILE : 10-17-142_C-301X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

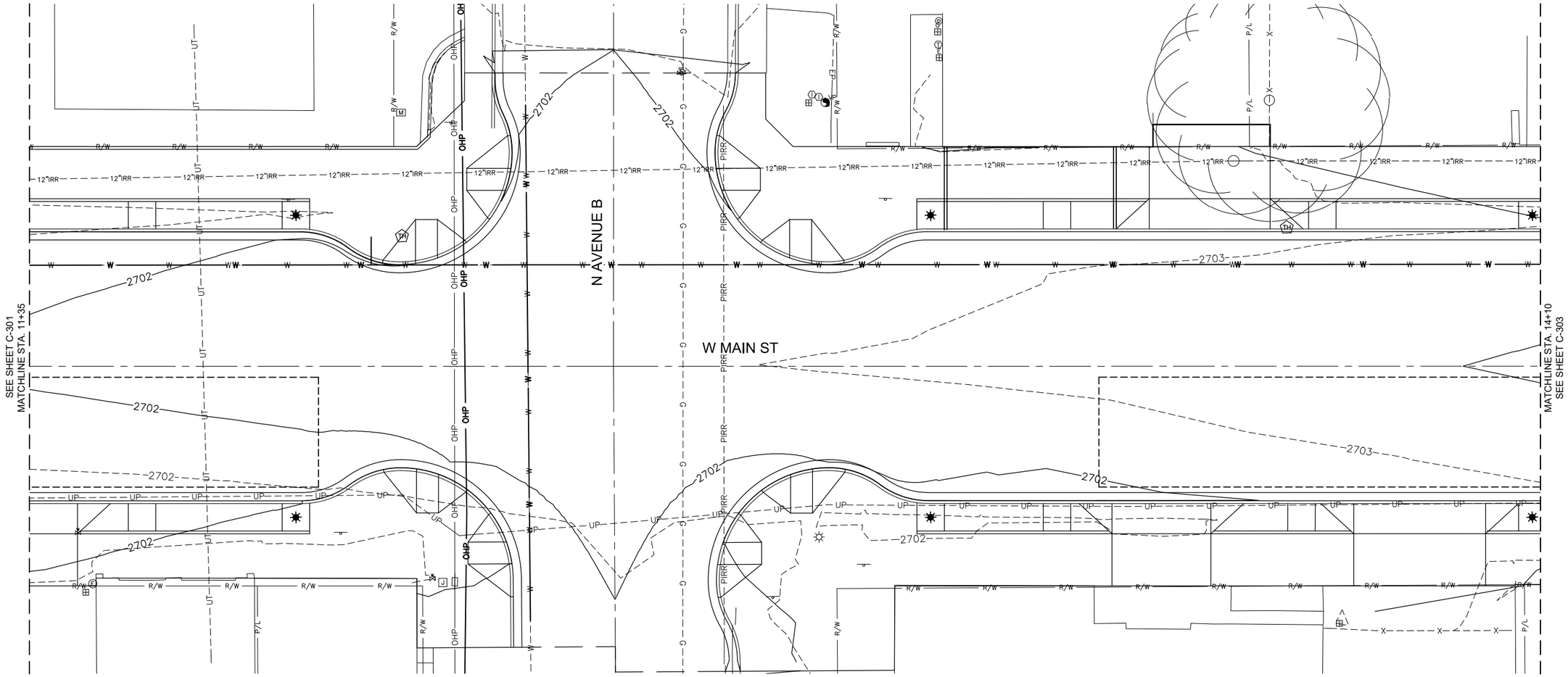
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

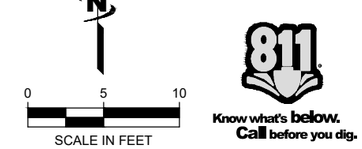
LAST UPDATED: 4/6/2018

SHEET NUMBER:

C-301

Plot Date:4/13/2018 11:43 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-301X.DWG





N

0 5 10

SCALE IN FEET

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

GRADING PLAN

FILE : 10-17-142_C-301X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

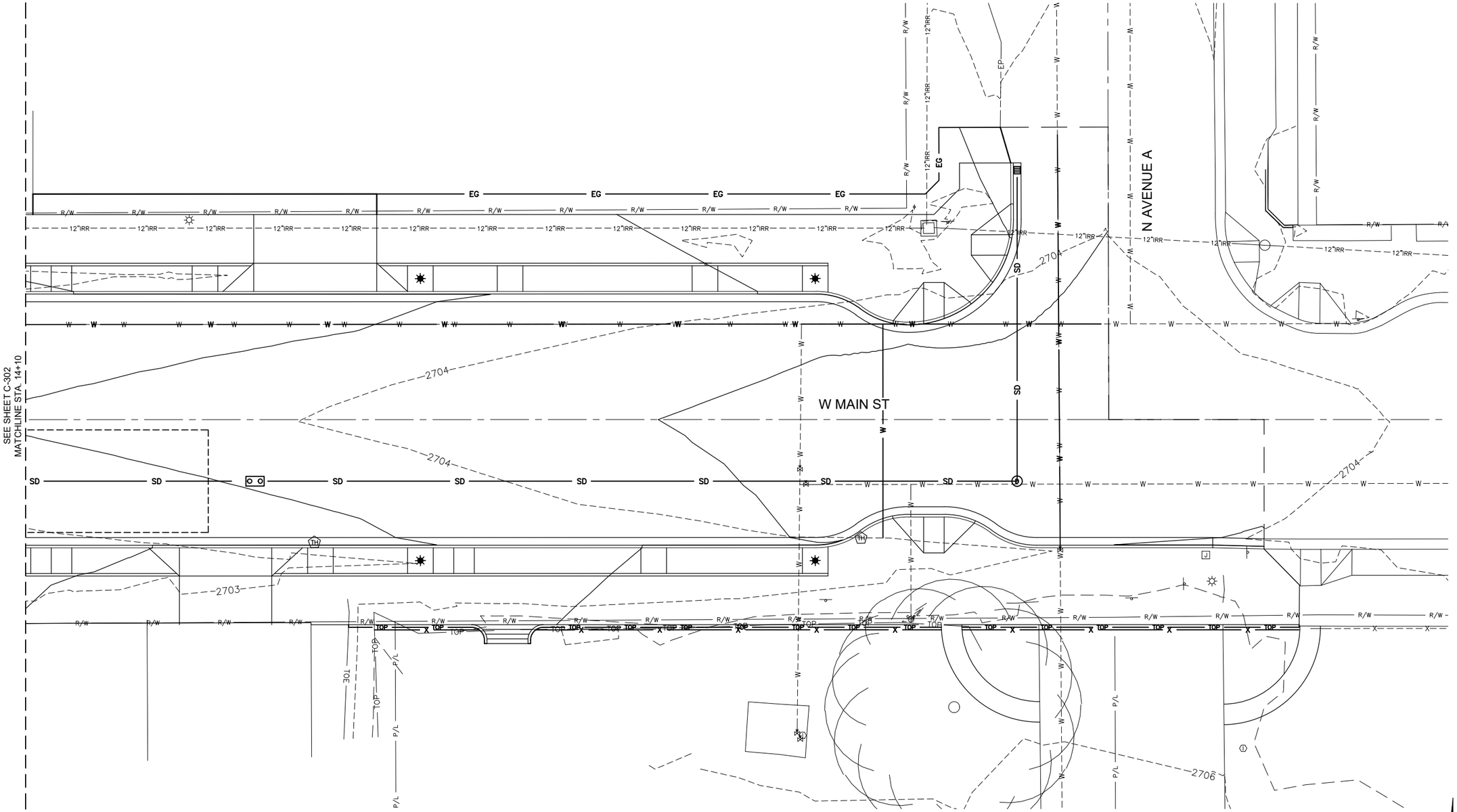
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 4/6/2018

SHEET NUMBER:

C-302

Plot Date:4/13/2018 11:43 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-301X.DWG



CURVE TABLE						
CURVE #	LENGTH	RADIUS	TANGENT	DELTA	CHORD BEARING	CHORD LENGTH

0 5 10
SCALE IN FEET

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NO.	REVISION	BY	APR.	DATE
3	GRADING POINT ELEVATION UPDATE	MCS	TAB	10/2/2017
2	GRADING POINT ELEVATION UPDATE	MCS	TAB	9/13/2017
1	GRADING POINT ELEVATION UPDATE	MCS	TAB	9/12/2017
NO.	DESCRIPTION	BY	APR.	DATE

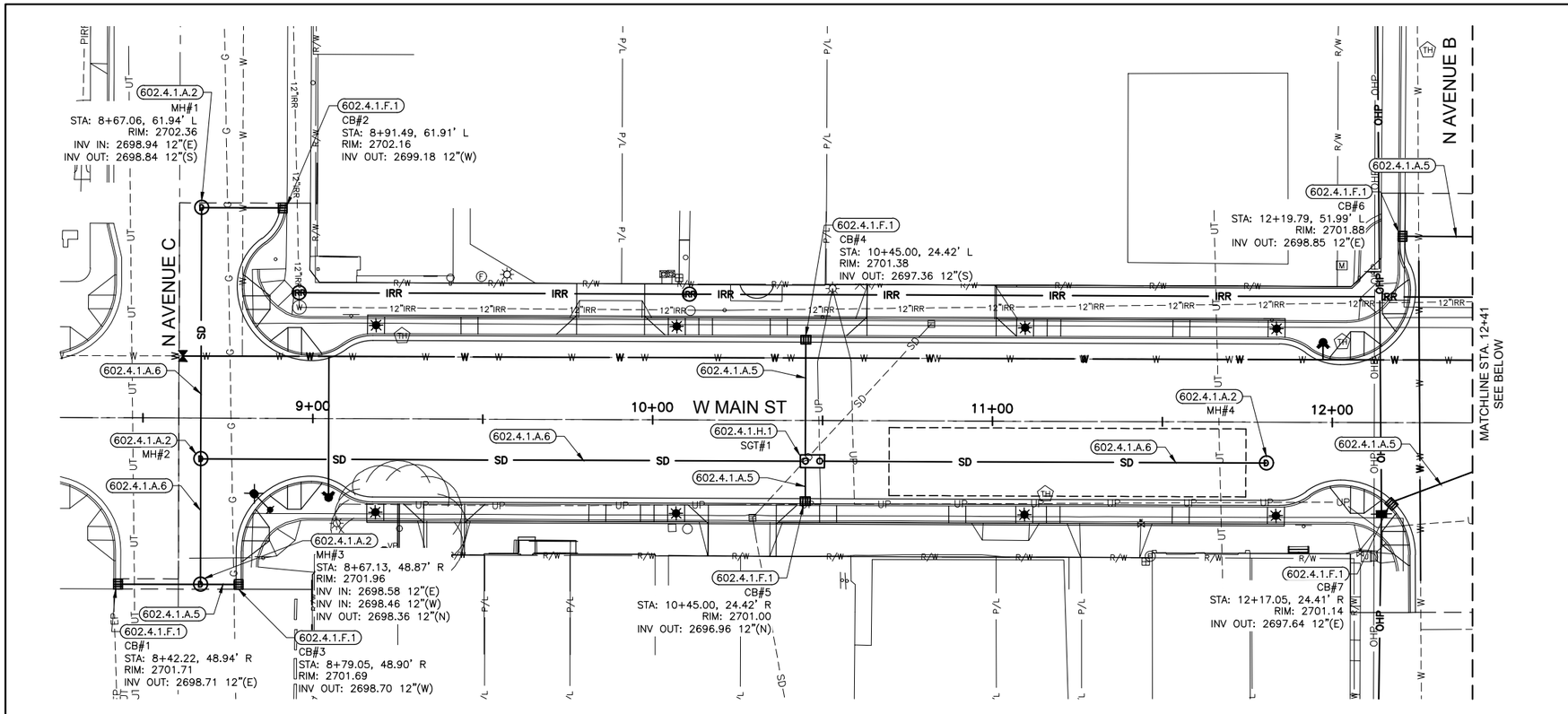
SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

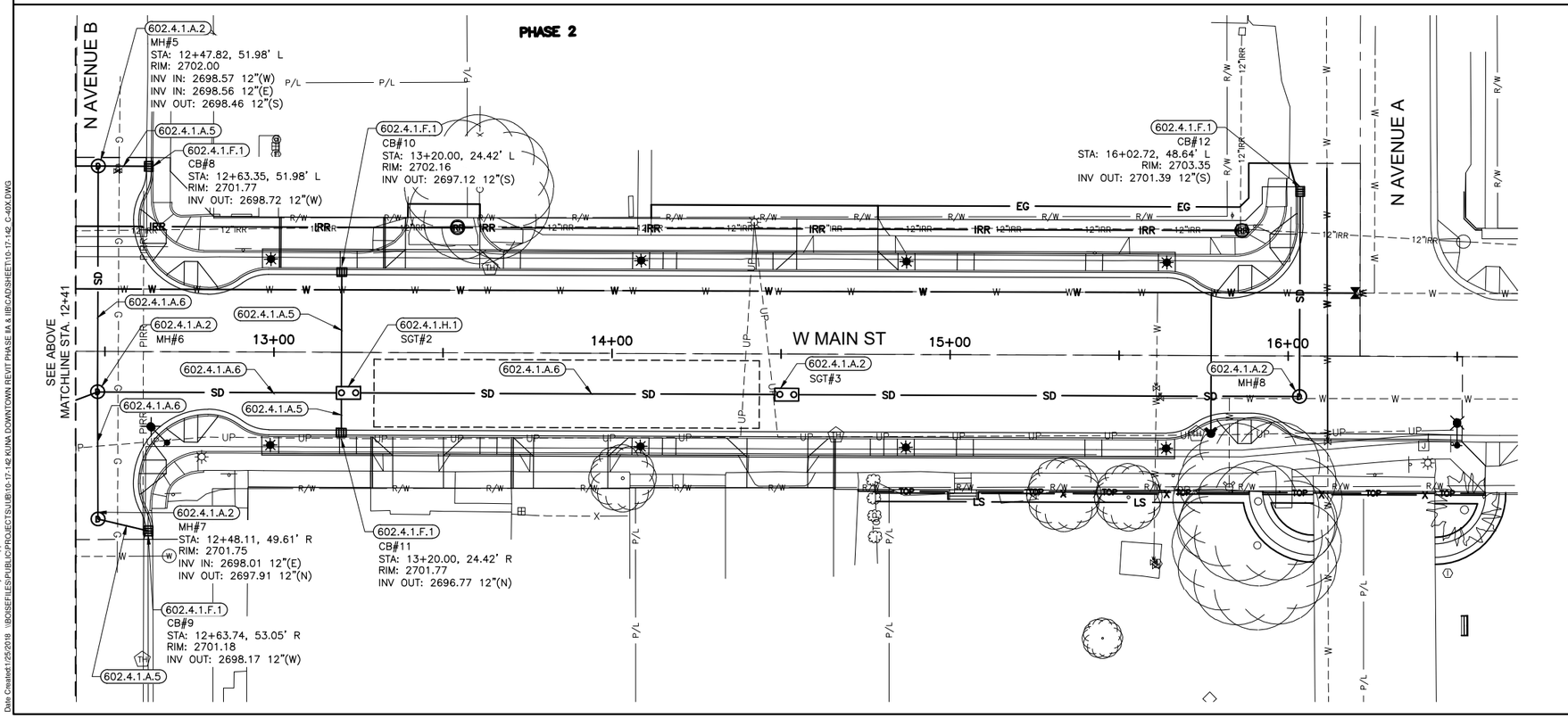
GRADING PLAN

FILE : 10-17-142_C-301X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 4/6/2018

SHEET NUMBER:
C-303

Plot Date:4/13/2018 11:43 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CADSHEET\10-17-142_C-301X.DWG





601.4.1.A.1	12" STORM DRAIN PIPE – SDR 35 PVC
601.4.1.A.2	15" STORM DRAIN PIPE – C-900 DR25 PVC
601.4.1.A.3	15" STORM DRAIN PIPE – SDR 35 PVC
601.4.1.A.4	18" STORM DRAIN PIPE – SDR 35 PVC
601.4.1.A.5	18" STORM DRAIN PIPE – SDR 35 PERFORATED PVC
602.4.1.F.1	CATCH BASIN – TYPE I
602.4.1.A.1	STORM DRAIN MANHOLE – TYPE A
602.4.1.H.1	PRECAST SEDIMENT BOX – 1000 GALLON
602.4.1.Q.1	GROUND WATER OBSERVATION WELL
801.4.1.A.1	2-INCH WASHED DRAIN ROCK
801.4.1.A.2	FILTER SAND
801.4.1.B.1	6" MINUS UNCRUSHED AGGREGATE
802.4.1.B.1	CRUSHED AGGREGATE FOR BASE TYPE 1

NOTES:

1. SEE SHEET C-402 FOR STORM DRAIN PROFILE.
2. CATCH BASIN STATIONING SHOWN REFERS TO GUTTER FLOW LINE (TYP.)
3. WATER/NON-POTABLE LINE CROSSING – SEE SHEET G-002, NOTE 31.
4. ALL STORM DRAIN TRENCHING SHALL BE COMPACTED WITH TYPE A1 TRENCH BACKFILL PER ISPWC SECTION 306.3.3

N

0 10 20

SCALE IN FEET

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

STORM DRAINAGE PLAN

FILE : 10-17-142_C-40X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

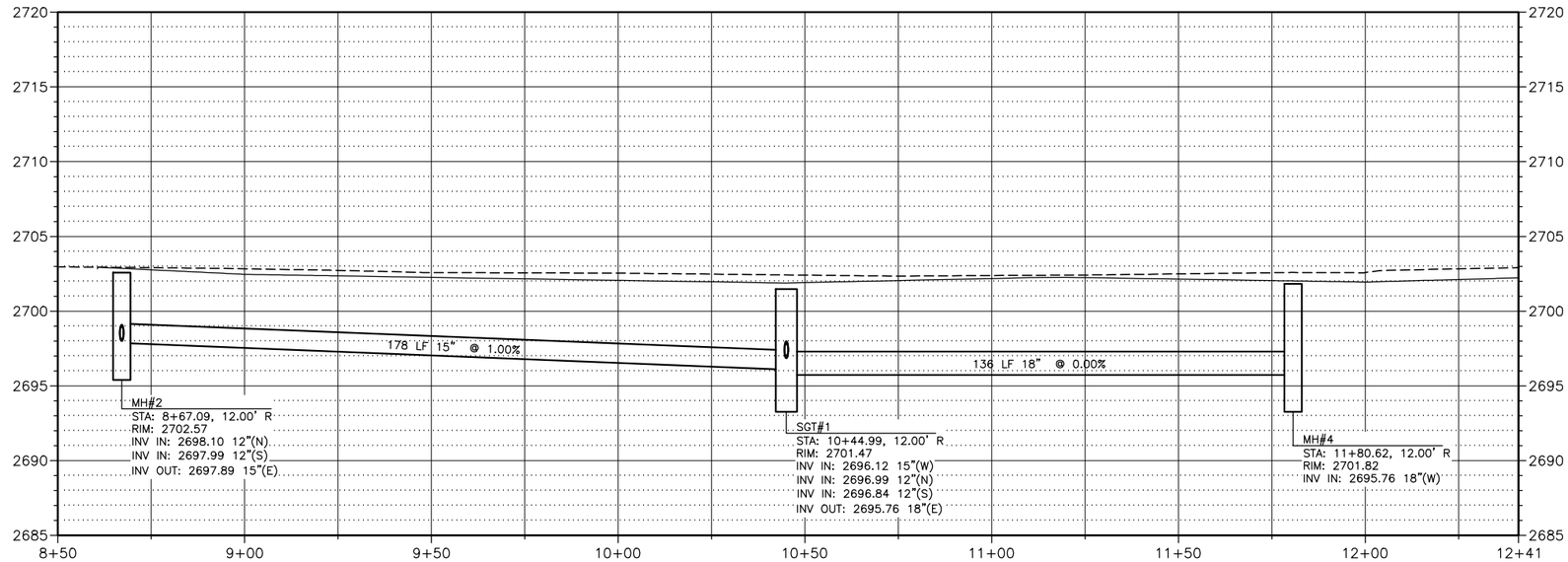
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 6/14/2018

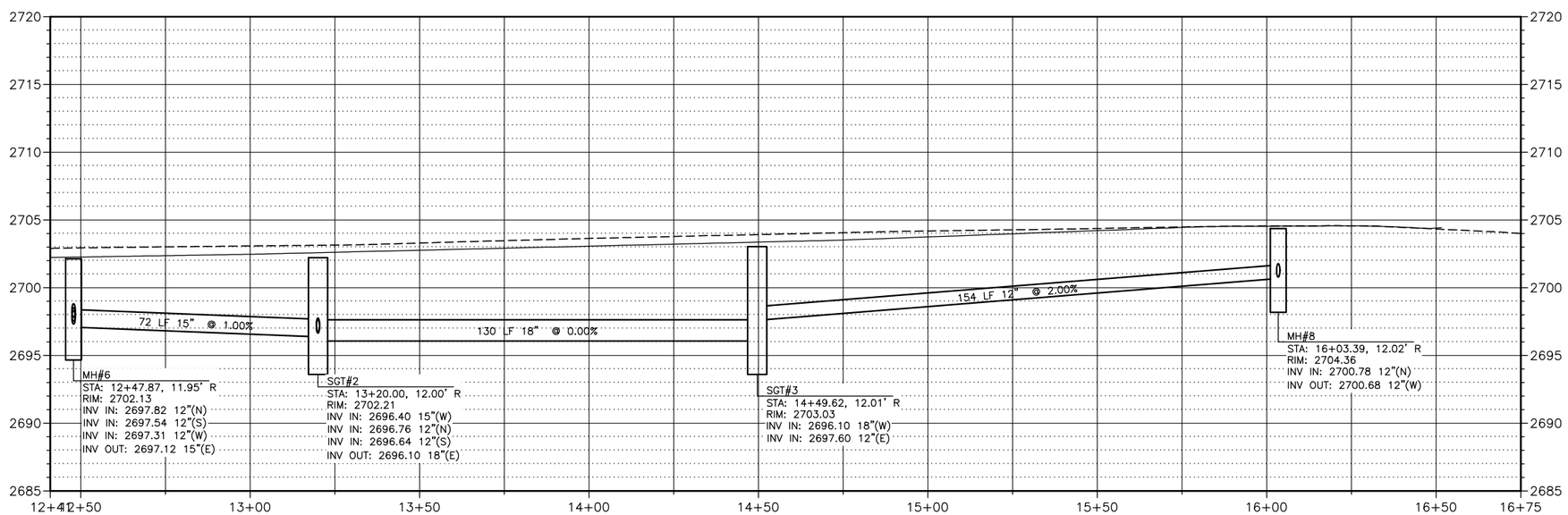
SHEET NUMBER:

C-401

Plot Date:6/18/2018 1:19 PM Plotted By: Matt Sipple
Date Created:12/5/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIIB\CAD\SHEET\10-17-142_C-40X.DWG



A1 STORM DRAIN PROFILE



A2 STORM DRAIN PROFILE

HORZ 0 20 40
VERT 0 5 10
SCALE IN FEET

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NO.	DESCRIPTION	BY	APR.	DATE

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

STORM DRAIN PROFILES

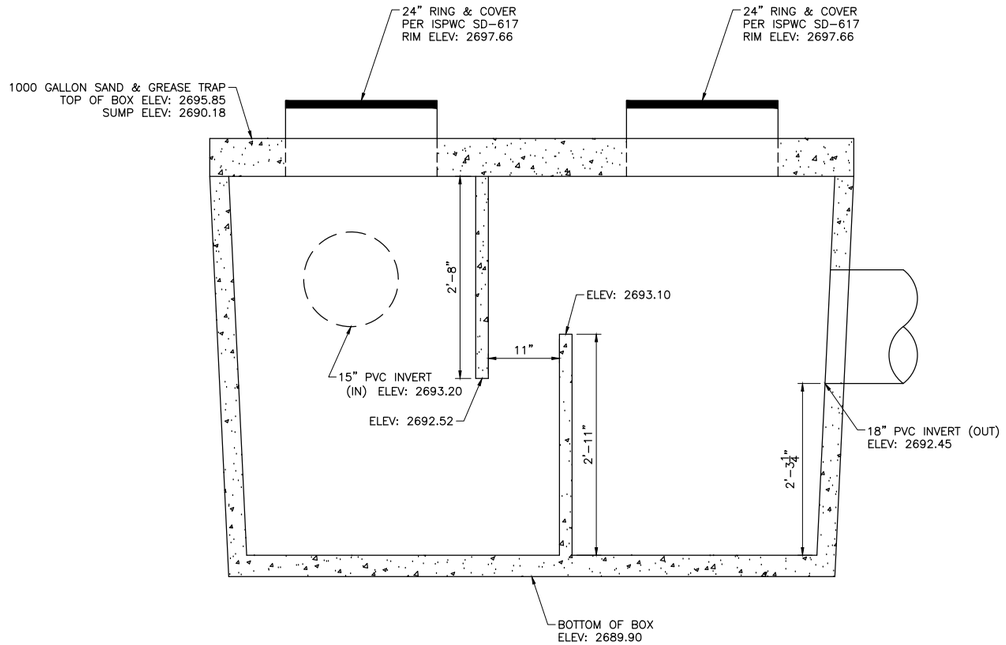
FILE : 10-17-142_C-40X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

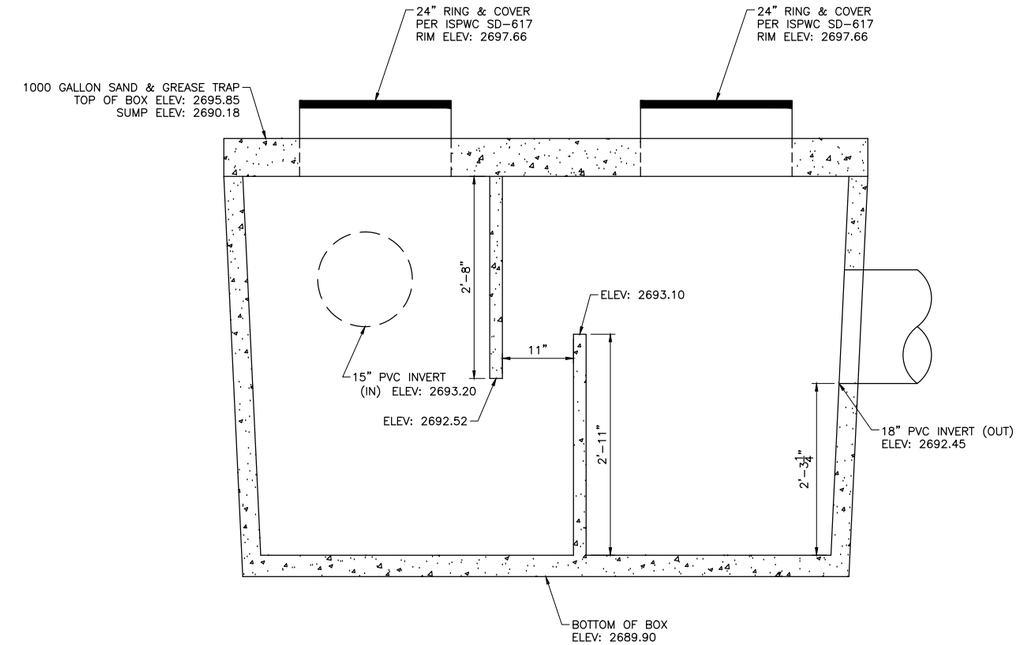
LAST UPDATED: 6/14/2018

SHEET NUMBER:
C-402

Plot Date:6/18/2018 1:13 PM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-40X.DWG



1 SAND & GREASE TRAP DETAIL (SGT #1)
SCALE: N.T.S.



2 SAND & GREASE TRAP DETAIL (SGT #2)
SCALE: N.T.S.

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

DETAILS

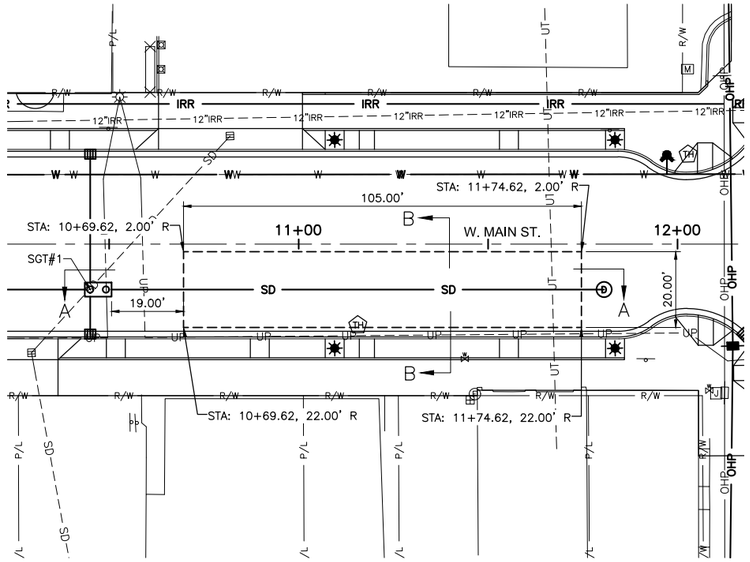
FILE : 10-17-142_C-501
JUB PROJ. # : 10-17-142
DRAWN BY: ##
DESIGN BY: ###
CHECKED BY: ###

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

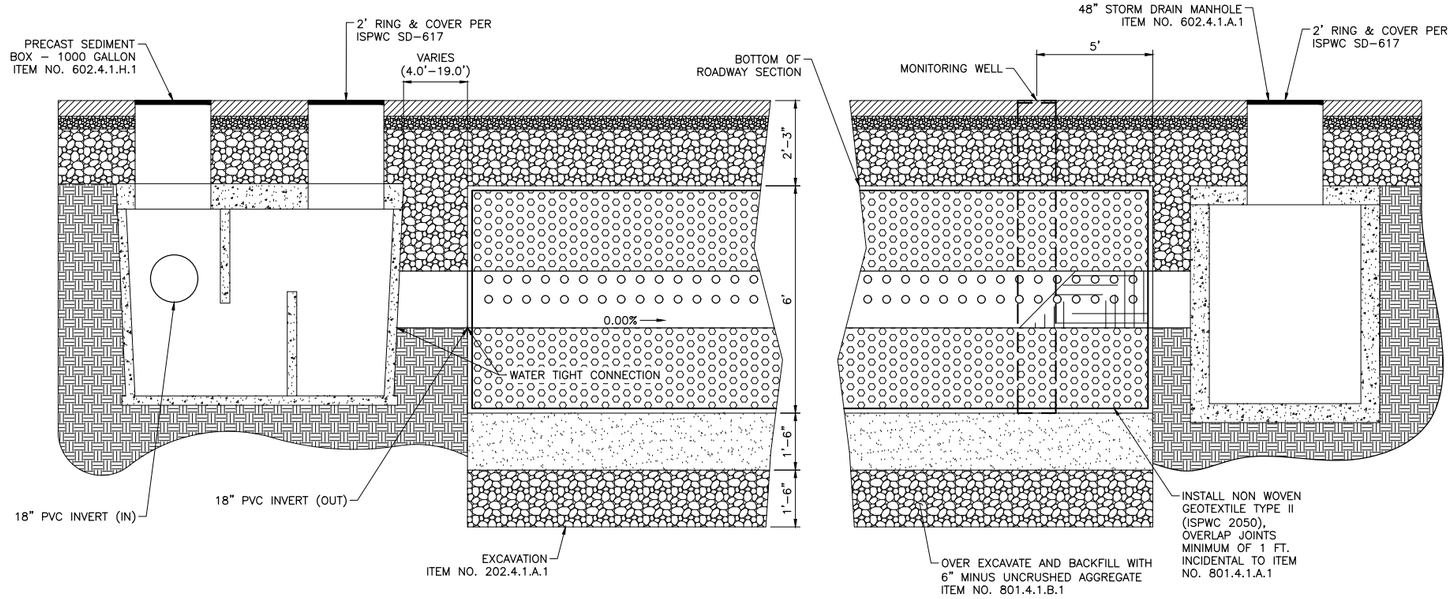
LAST UPDATED: 4/12/2018

SHEET NUMBER:
C-501

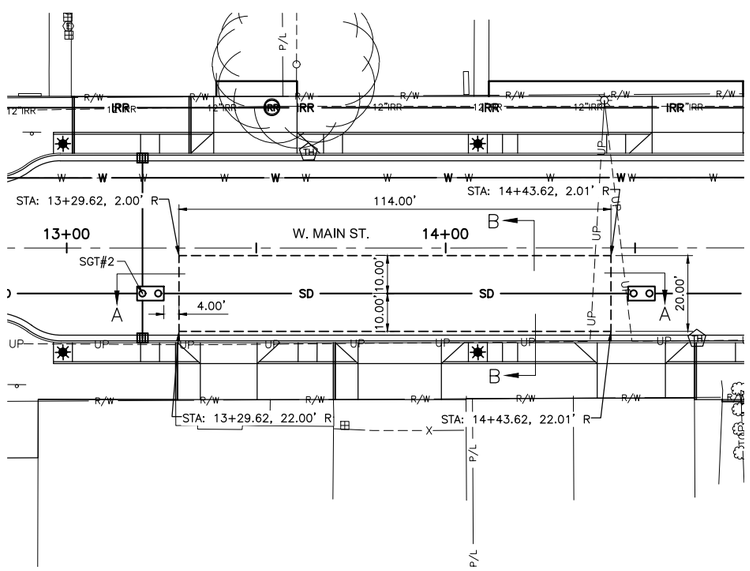
Plot Date:4/13/2018 11:44 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_C-501.DWG



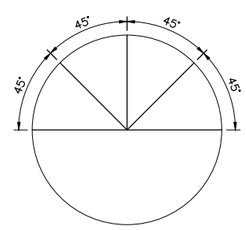
1 SEEPAGE BED #1 LAYOUT
SCALE:1" = 20'



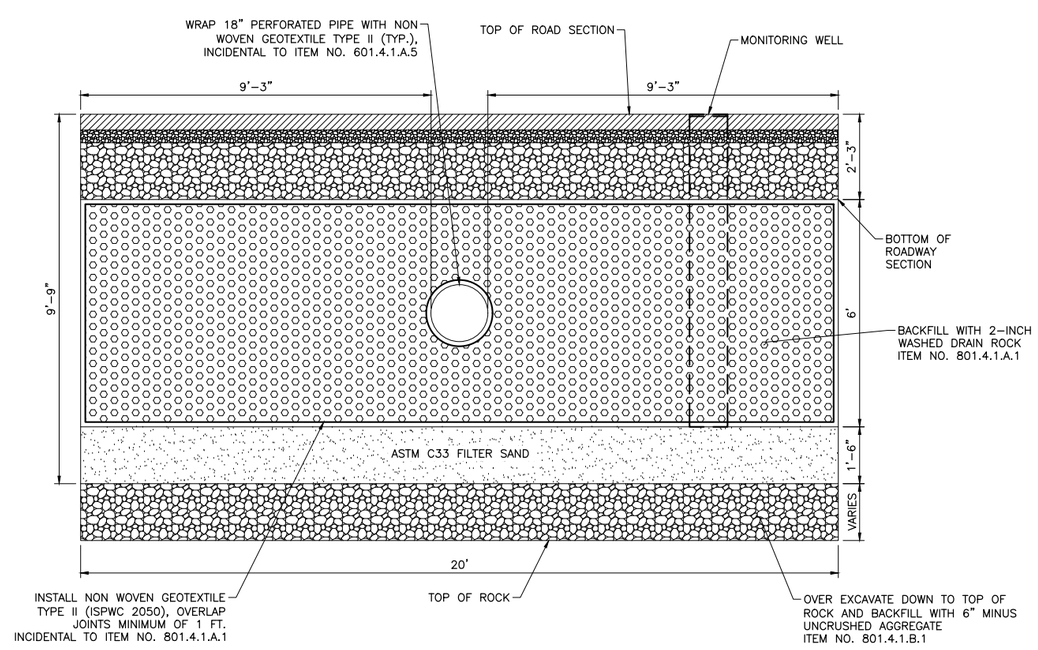
A UNDERGROUND SEEPAGE BED - SECTION A-A
SCALE:N.T.S.



2 SEEPAGE BED #2 LAYOUT
SCALE:1" = 20'



18" PIPE PERFORATION SCHEDULE
(PER 2015 ACHD STORMWATER DESIGN GUIDELINES STD. DWG. BMP 20)



B UNDERGROUND SEEPAGE BED - SECTION B-B
SCALE:N.T.S.

SEEPAGE BED	AREAS	WIDTH	LENGTH	DEPTH	FG SURFACE	SURFACE TYPE
1	–	20'–0"	105'–0"	6'–0"		PAVEMENT
2	–	20'–0"	114'–0"	6'–0"		PAVEMENT

SEEPAGE BED	TOP BED	COVER	ROCK/HIGH GROUND WATER=		
			BOTTOM BED/TOP SAND	BOTTOM SAND	ROCK/GW SEPARATION
1		2.25 MIN.			
2		2.25 MIN.			

GENERAL NOTES:
1. CONTACT DESIGN ENGINEER IF ROCK OR GROUNDWATER IS ENCOUNTERED FOR SEEPAGE BED RESIZING.
2. ALL VAULTS, MANHOLES, AND SAND & GREASE TRAPS MUST BE HS25 OR GREATER LOAD RATED.
3. ALL GEOTEXTILE SEAMS SHALL OVERLAP 1 FOOT MINIMUM, UNLESS OTHERWISE DIRECTED.

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REVISION

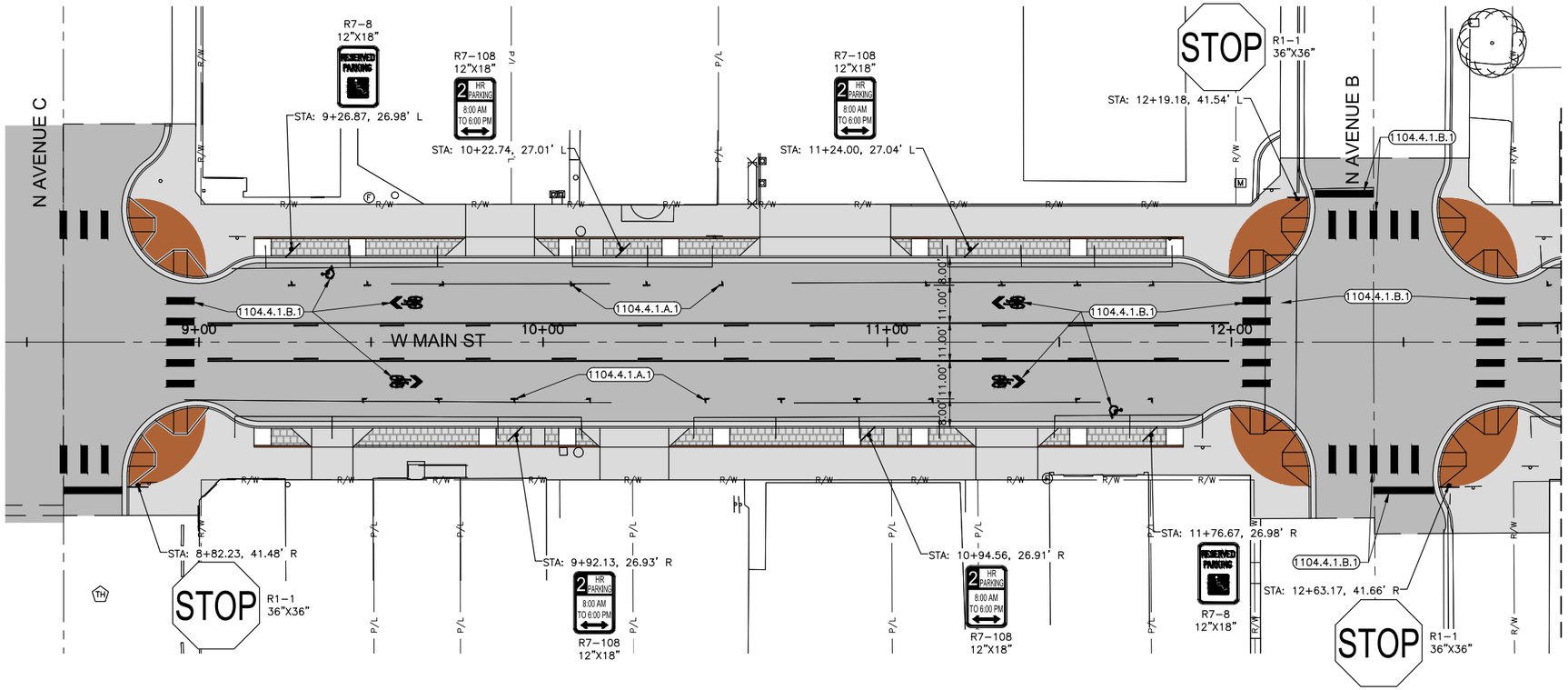
SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

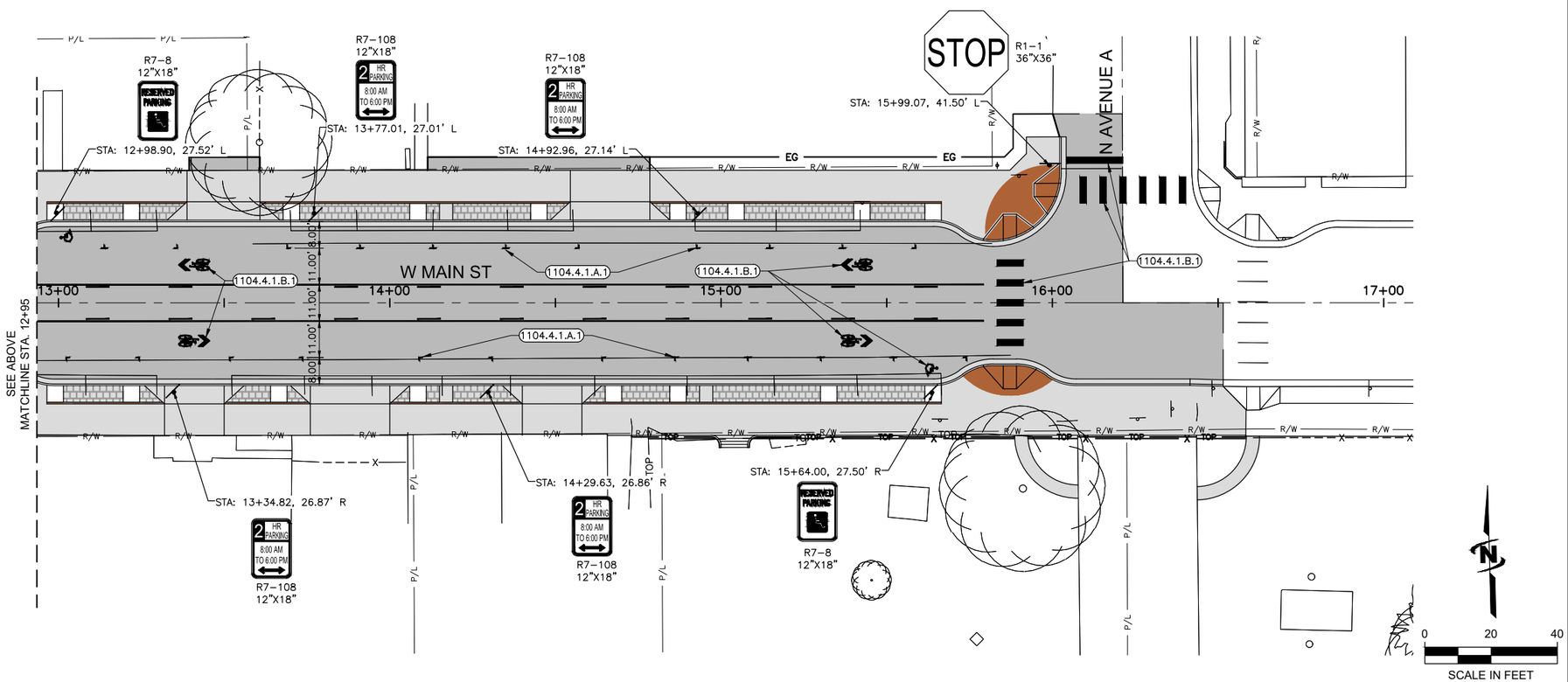
DETAILS

FILE : 10-17-142_C-60X
JUB PROJ. # : 10-17-142
DRAWN BY: ##
DESIGN BY: ###
CHECKED BY: ###
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 6/14/2018

SHEET NUMBER:
C-602

Plot Date:6/18/2018 1:26 PM, Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-60X.DWG





LEGEND:

- ASPHALT PAVEMENT
- CONCRETE
- COLORED CURB
- 1104.4.1.A.1 PAINTED PAVEMENT MARKINGS
- 1104.4.1.B.1 THERMOPLASTIC PAVEMENT MARKINGS

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

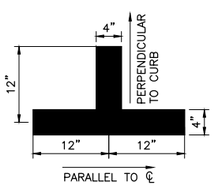
SIGNING & PAVEMENT MARKING

FILE : 10-17-142_C-701
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 4/12/2018

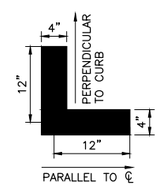
SHEET NUMBER:
C-701

Know what's below. Call before you dig.

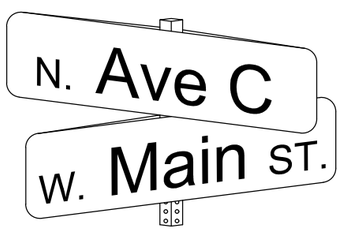
Plot Date:4/13/2018 11:44 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-701.DWG



1 PARKING TEE DETAIL
SCALE:N.T.S.



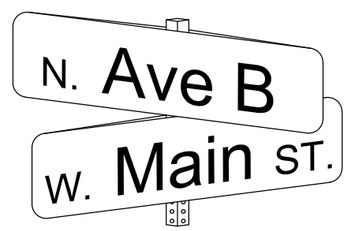
2 PARKING ANGLE DETAIL
SCALE:N.T.S.



NOTES:

1. DETAIL IS FOR SCHEMATIC PURPOSES ONLY. SIGNS SHALL BE CONSTRUCTED AND INSTALLED PER ACHD STD. DWG. TS–1109.
2. MOUNT STREET SIGN ASSEMBLY ABOVE STOP SIGN DESIGNATED ON SIGNING AND STRIPING PLANS, SHEET C–701 & C–702

3 STREET SIGN ASSEMBLY - AVE C & MAIN ST
SCALE:N.T.S.



NOTES:

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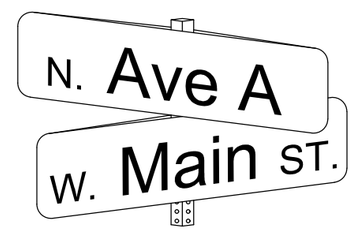
2. MOUNT STREET SIGN ASSEMBLY ABOVE STOP SIGN DESIGNATED ON SIGNING AND STRIPING PLANS, SHEET C–701 & C–702

4 STREET SIGN ASSEMBLY - AVE B & MAIN ST
SCALE:N.T.S.



NOTES:

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2. MOUNT STREET SIGN ASSEMBLY ABOVE STOP SIGN DESIGNATED ON SIGNING AND STRIPING PLANS, SHEET C–701 & C–702

5 STREET SIGN ASSEMBLY - AVE A & MAIN ST
SCALE:N.T.S.

Plot Date:4/13/2018 11:44 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-701.DWG

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PRELIMINARY PLANS

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NO.	DESCRIPTION	BY	APR.	DATE
	REVISION			

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

SIGNING & PAVEMENT MARKING

FILE : 10-17-142_C-701
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 4/12/2018

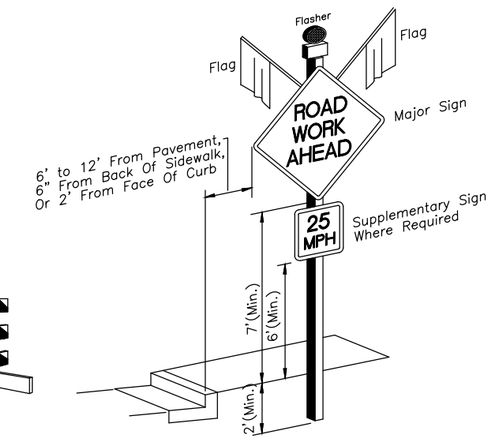
SHEET NUMBER:
C-702

APPROXIMATE SIGNING QUANTITIES

SIGNING	DESCRIPTION	SIZE	SQ. FT.	QUANTITIES	SQ. FT-CLASS B
D3–1	"W MAIN ST"	30"x12"	2.5		##
D3–1	"AVENUE C"	30"x12"	2.5		#
D3–1	"AVENUE D"	30"x12"	2.5		#
G20–2	END ROAD WORK	18"x36"	4.5		#
M4–9T	DETOUR (THRU)	30"x24"	5.0		##
M4–9L	DETOUR (LEFT)	30"x24"	5.0		##
M4–9R	DETOUR (RIGHT)	30"x24"	5.0		##
M6–7	THRU/RIGHT	30"x21"	4.4		#
R1–1	STOP SIGN	36"x36"	9.0		#
R3–1	NO RIGHT TURN	24"x24"	4.0		#
R3–2	NO LEFT TURN	24"x24"	4.0		#
R3–5R	RIGHT ONLY	24"x30"	5.0		#
R3–5L	LEFT ONLY	24"x30"	5.0		#
R4–7	STAY RIGHT	24"x30"	5.0		##
R5–1	DO NOT ENTER	30"x30"	6.3		#
R7–1	NO PARKING ANY TIME	12"x18"	1.5		#
R11–4	ROAD CLOSED TO THRU TRAFFIC	60"x30"	12.5		##
W20–1	ROAD WORK AHEAD	48"x48"	16.0		##
W20–2	DETOUR AHEAD	48"x48"	16.0		##
W20–3	ROAD CLOSED AHEAD	48"x48"	16.0		##
W20–5	THRU LANE CLOSED AHEAD	48"x48"	16.0		##
W20–5L	LEFT LANE CLOSED AHEAD	48"x48"	16.0		##
CUSTOM	"BUSINESS ACCESS"	60"x12"	5.0		##
				SUBTOTAL	###
				10% CONTINGENCY	##
				TOTAL	###
				TYPE III BARRICADES	
				TUBULAR MARKERS	

GENERAL NOTES

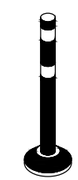
1. ALL WORK ZONE SIGNING SHALL MEET OR EXCEED THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AS ADOPTED BY THE STATE. ALL SIGNING, BARRELS, BARRICADES SHALL BE PROVIDED BY THE CITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES THROUGHOUT DURATION OF PROJECT. CONTRACTOR SHALL RETURN ALL TRAFFIC CONTROL DEVICES TO CITY AT END OF PROJECT IN GOOD CONDITION.
2. ALL EXISTING PERMANENT SIGNS IN CONFLICT WITH TEMPORARY SIGNS, SHALL BE COVERED WHILE WORK ZONE SIGNING IS IN EFFECT.
3. IF THE TRAFFIC CONTROL PLAN AS SHOWN DOES NOT CONFORM TO THE CONTRACTOR'S METHOD OF OPERATION, THE CONTRACTOR SHALL SUBMIT NEW TRAFFIC CONTROL PLANS FOR APPROVAL.
4. ALL DISTANCES BETWEEN SIGNS ARE MINIMUMS AND MAY REQUIRE SPACING ADJUSTMENTS IN THE FIELD DEPENDING ON PREVAILING CONDITIONS.
5. ALL WORK ZONE SIGNING AND DRUMS AND TUBULAR MARKERS SHALL BE IN PLACE PRIOR TO DIVERSION OF TRAFFIC. TRAFFIC CONTROL PLANS SHOW DRUMS IN ALL TAPERS AND IN ALL TANGENTS. CONTRACTOR MAY SUBSTITUTE TUBULAR MARKERS FOR DRUMS IN TANGENT SECTIONS BUT MUST ALWAYS MAINTAIN DRUMS IN TAPER SECTIONS.
6. ALL TAPER LENGTHS SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, AS ADOPTED BY THE STATE, BASED ON POSTED TRAFFIC CONTROL SPEED LIMIT SIGNING.
7. ADDITIONAL SIGNING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
8. ALL WORK ZONE SIGNING SHALL BE ON SIGN POSTS OFF PAVEMENT AND SIGNING ON TEMPORARY STANDS ON PAVEMENT.
9. WHEN WORK ZONE TEMPORARY SIGNS ARE NOT APPLICABLE, THEY SHALL BE COVERED. WHEN WORK ZONE SIGNS MOUNTED ON TEMPORARY STANDS ARE NOT APPLICABLE, THEY SHALL BE REMOVED FROM THE PROJECT.
10. ALL NIGHT TIME FLAGGING STATIONS SHALL HAVE LIGHT PLANTS.
11. TRAFFIC SHALL NOT BE DELAYED MORE THAN 15 MINUTES AND NOT DELAYED DURING PEAK TRAFFIC TIMES IN THE MORNING AND EVENING. SEE SPECIAL PROVISIONS FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS.



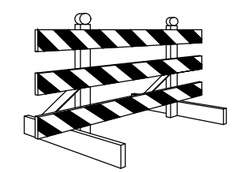
TYPICAL SIGN INSTALLATION

LEGEND

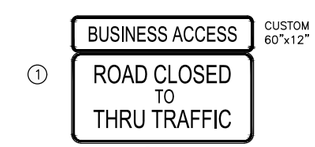
- SIGN
- TYPE III BARRICADE
- TUBULAR MARKERS



TUBULAR MARKER



BARRICADE TYPE III



R11–4
60"x30"
(MOUNTED ON TYPE III BARRICADE)

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

TRAFFIC CONTROL DETAILS

FILE : 10-17-142_C-900
JUB PROJ. # : 10-17-142
DRAWN BY: SMD
DESIGN BY: SMD
CHECKED BY: JPE

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 3/22/2018

SHEET NUMBER:
C-900

Plot Date:4/13/2018 11:44 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-900.DWG

Plot Date:4/13/2018 11:44 AM Plotted By: Matt Sipple
Date Created:1/25/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_C-901.DWG

***SEE SHEET C-900 FOR TEMPORARY SIGNING LEGEND AND DETAILS.

AVENUE E; 4TH ST TO MAIN ST, KUNA
FEDERAL AID PROJECT NO. A020(063), KEY NO. 20063

TRAFFIC CONTROL & DETOUR

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NO.	DESCRIPTION	BY	APR.	DATE

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J-U-B ENGINEERS, INC.

FILE: 10-17-142 C-901
JUB PROJ. # 10-16-900
DRAWN BY: SMS/MCS
DESIGNED BY: TBS
CHECKED BY: TBS
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 3/19/2018

SHEET NUMBER:
C-901

PLANTING NOTES

1. THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANTING AND IRRIGATION TECHNICAL SPECIFICATIONS -- FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO FULFILL ALL REQUIREMENTS IN SAID SPECIFICATIONS.

2. PRIOR TO THE CONTRACTOR INSTALLING ANY PLANTINGS ALONG MAIN STREET BETWEEN AVENUE C & D, THE DRIP IRRIGATION LINES SHALL BE INSTALLED BY THE CITY SHALL BE FULLY OPERATIONAL, AND ALL PLANTING AREAS SHALL BE THOROUGHLY MOISTENED.

3. PRIOR TO THE CONTRACTOR INSTALLING ANY PLANTINGS ALONG MAIN STREET BETWEEN AVENUE D & E AND ALONG AVENUE E, THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND PROVIDE 2-WEEKS ADVANCE NOTICE TO SCHEDULE THE DRIP IRRIGATION SYSTEM INSTALLATION IN COORDINATION WITH THE CONTRACTOR INSTALLING THE PLANTINGS. DRIP IRRIGATION INSTALLED BY THE CITY SHALL BE FULLY OPERATIONAL, AND ALL PLANTINGS AREAS SHALL BE THOROUGHLY MOISTENED.

4. THE PLANTING PLAN IS DIAGRAMMATIC, AND ALL PLANT LOCATIONS ARE APPROXIMATE. PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SHOWN ON THE PLANS AND IN THE PLANT MATERIAL SCHEDULE. THE CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES AND NOTIFY THE RESIDENT ENGINEER OF ANY DISCREPANCIES BETWEEN QUANTITIES AND THE SYMBOLS SHOWN. THE PLANT MATERIALS SCHEDULE IS FOR THE CONTRACTORS CONVENIENCE ONLY.

5. UPON RECEIVING NOTICE TO PROCEED, THE CONTRACTOR SHALL PROVIDE WRITTEN PROOF THAT THE SPECIFIED PLANT MATERIAL IS AVAILABLE AND HAS BEEN SECURED OR RESERVED SPECIFICALLY FOR THIS PROJECT. OBTAIN NURSERY STOCK AND OTHER PLANT MATERIALS FROM RELIABLE AND STABLE SOURCES PRIOR TO ORDER AND DELIVERY.

6. FINAL GRADE PREPARATION

   A. THE SUBGRADE MATERIAL SHALL BE ROUGH GRADED TO PLUS OR MINUS ONE TENTH (+0.1) FOOT OF THE FINAL ROUGH GRADE, WHICH WILL ALLOW THE CONTRACTOR TO ACHIEVE FINAL FINISHED GRADE THROUGH THE PLACEMENT OF THE TOPSOIL.

   B. PROTECT EXISTING TREES, SHRUBS, LAWNS, EXISTING STRUCTURES, FENCES, ROADS, SIDEWALKS, PAVING, CURB AND GUTTER AND OTHER FEATURES DURING CONSTRUCTION.

   C. SOIL ACCUMULATION ON STREETS OR SIDEWALKS WILL NOT BE ALLOWED. SOIL SHALL NOT BE WASHED INTO SEWERS AND STORM DRAINS.

   D. GRADE SLOPES TO PROVIDE ADEQUATE DRAINAGE AFTER COMPACTION. DO NOT CREATE WATER POCKETS OR RIDGES. USE ALL MEANS NECESSARY TO PREVENT EROSION OF FRESHLY GRADED AREAS DURING CONSTRUCTION UNTIL SURFACES HAVE BEEN CONSTRUCTED AND LANDSCAPING AREAS HAVE TAKEN HOLD.

   E. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO (2) PERCENT DRAINAGE AWAY FROM ALL BUILDINGS, STRUCTURES, AND WALLS. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER.

   F. ALL FINISHED GRADES SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION OF ANY PLANT MATERIALS.

7. AFTER IMPORTED TOP SOIL HAS BEEN DELIVERED TO THE SITE, A SECOND SOILS TEST MAY BE REQUIRED TO VERIFY THAT IT IS INDEED THE SAME SOIL AS PREVIOUSLY TESTED AND DESIGNATED FOR USE IN THIS PROJECT. NO SUBSTITUTION OF TOP SOIL SHALL BE ALLOWED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT.

8. THROUGHOUT THE COURSE OF PLANTING, EXCESS AND WASTE MATERIALS AS WELL AS EXCAVATED SUBSOIL SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED. ALL AREAS SHALL BE KEPT CLEAR AND ALL REASONABLE PRECAUTIONS TAKEN TO AVOID DAMAGE TO EXISTING STRUCTURES, PLANTS, AND GRASS. WHEN PLANTING HAS BEEN COMPLETED IN AN AREA, IT SHALL BE THOROUGHLY CLEANED OF ALL DEBRIS, RUBBISH, SUBSOIL, AND WASTE MATERIALS. THESE SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF LEGALLY. ALL PLANTING TOOLS SHALL ALSO BE PUT AWAY.

9. THE CONTRACTOR SHALL CONTACT THE RESIDENT ENGINEER TO ARRANGE FOR A SUBSTANTIAL COMPLETION WALK THROUGH TO VERIFY THAT ALL ASPECTS OF THE WORK HAVE BEEN COMPLETED. WORK MUST BE FULLY COMPLETED (EXCEPT FOR FINAL CLEAN-UP) ACCORDING TO ALL PLANS, NOTES, AND SPECIFICATIONS AND EXHIBIT PROFESSIONAL WORKMANSHIP.

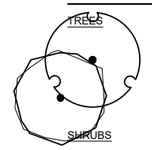
10. AT THIRTY (30) DAYS AFTER PLANTING, A BALANCED FERTILIZER (16-16-16) SHALL BE APPLIED TO THE TURF GRASS AREAS AT A RATE OF ONE HALF (½) POUND OF NITROGEN PER ONE THOUSAND (1,000) SQUARE FEET.

11. THE CONTRACTOR SHALL, WITHIN FIFTEEN (15) DAYS AFTER RECEIVING WRITTEN NOTIFICATION BY OWNER'S REPRESENTATIVE, REMOVE AND REPLACE ALL GUARANTEED PLANTS MATERIALS WHICH DIE OR BECOME UNHEALTHY OR APPEAR TO BE IN A BADLY IMPAIRED CONDITION AT ANY TIME DURING THE GUARANTEE PERIOD. ANY PLANTS THAT SETTLE BELOW OR RISE ABOVE THE DESIRED FINISHED GRADE SHALL ALSO BE RESET TO THE PROPER GRADE.

    A. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND, SIZE, AND QUALITY AS ORIGINALLY SPECIFIED IN THE "PLANT LIST" AND THEY SHALL BE FURNISHED, PLANTED, STAKED, AND MAINTAINED AS SPECIFIED HEREIN AT NO ADDITIONAL COST.

    B. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR PLANTS DESTROYED OR LOST DUE TO OCCUPANCY OF THE PROJECT, VANDALISM ON THE PART OF OTHERS, OR IMPROPER MAINTENANCE OR LACK THEREOF.

PLANTING LEGEND

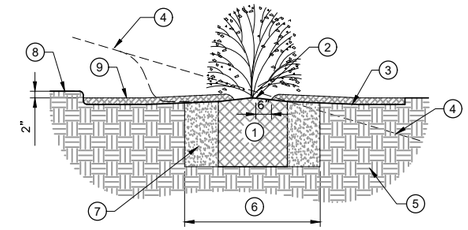


TREES	CODE	BOTANICAL NAME	COMMON NAME	CONT	CAL	QTY
	GBA	Ginkgo biloba `Autumn Gold` TM (Female Plants Only)	Maidenhair Tree	B & B	2"Cal	9
	LSC	Liquidambar styraciflua `Cherokee`	Cherokee Sweet Gum	B & B	2"Cal	10

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	QTY
	CDI	Callicarpa dichotoma	Beauty Berry	5 gal	43
	CAC	Cotoneaster acutifolius	Peking Cotoneaster	5 gal	12
	MAC	Mahonia aquifolium `Compacta`	Compact Oregon Grape	5 gal	43
	POS	Physocarpus opulifolius `Summer Wine`	Summer Wine Ninebark	5 gal	8
	SPN	Salix purpurea `Nana`	Dwarf Arctic Willow	5 gal	6
	TMH	Taxus x media `Hicksii`	Hicks Yew	5 gal	23

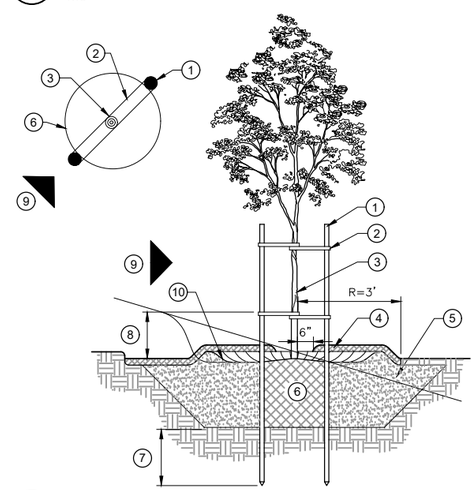
ANNUALS/PERENNIALS	CODE	BOTANICAL NAME	COMMON NAME	CONT	QTY
	ARS	Agastache rupestris `Sunset`	Sunset Hyssop	1 gal	80
	ERM	Echinacea x `Rainbow Marcella`	Butterfly Rainbow Coneflower	1 gal	153
	PEA	Penstemon eatonii	Firecracker Penstemon	1 gal	49
	PAT	Perovskia atriplicifolia	Russian Sage	1 gal	17
	SAJ	Sedum x `Autumn Joy`	Autumn Joy Sedum	1 gal	50

GRASSES	CODE	BOTANICAL NAME	COMMON NAME	CONT	QTY
	MSA	Miscanthus sinensis `Adagio`	Adagio Eulalia Grass	1 gal	28
	PVS	Panicum virgatum `Shenandoah`	Switch Grass	1 gal	12
	ECH	Echinacea `Twilight`	Coneflower	1 gal	32



1. ROOT BALL
2. CROWN – AT FINISHED GRADE
3. FINISHED GRADE
4. FINISHED GRADE AT SLOPE (WHERE OCCURS)
5. UNDISTURBED SOIL
6. 2X ROOTBALL DIA. MIN.
7. BACKFILL MIX (SEE PLANTING NOTES)
8. TOP OF PAVING (WHERE APPLICABLE)
9. 3" LAYER OF MULCH

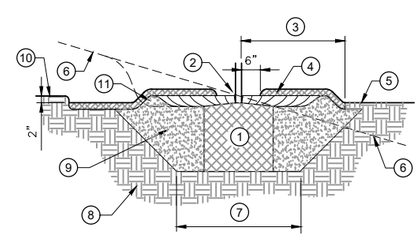
1 PERENNIAL PLANTING
NTS



1. 2" DIA. OR 2" x 2" SQ. x 10' STRAIGHT WOODEN STAKE (2 REQUIRED)
2. TIE VINYL TREE TIE (2 PER STAKE, LENGTH AS REQUIRED). SECURE TO STAKE W/ GALV. NAIL. 1 PER TIE
3. TREE TRUNK
4. 3" LAYER MULCH AROUND EACH TREE (3' RADIUS CIRCLE WHEN IN TURF)
5. SEE TREE/SHRUB PLANTING DETAIL
6. ROOT BALL
7. 24" MIN.
8. 6" MAX.
9. PREVAILING WIND DIRECTION
10. WATERING BASIN – SEE TREE/SHRUB PLANTING DETAIL

NOTE: STAKES SHALL BE REMOVED AFTER COMPLETE GROWING SEASON.

2 DECIDUOUS TREE STAKING W/ WATERING BASIN
NTS



1. ROOTBALL
2. CROWN – APPROXIMATELY 1" ABOVE FINISH GRADE
3. 3' RADIUS CIRCLE OF SHREDDED BARK MULCH WHEN TREE IS LOCATED IN TURF
4. 3" LAYER OF MULCH
5. FINISHED GRADE
6. FINISHED GRADE AT SLOPE (WHERE SLOPE OCCURS)
7. 2X ROOTBALL DIA. MIN. W/ 45 DEGREE SIDES
8. UNDISTURBED SOIL
9. BACKFILL MIX (SEE PLANTING NOTES)
10. TOP OF PAVING (WHERE APPLICABLE)
11. 3" HIGH WATERING BASIN

3 TREE/SHRUB PLANTING W/ WATERING BASIN
NTS

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
250 S. Beechwood Ave.
Suite 201
Boise, ID 83709-0944
Phone: 208.376.7330
Fax: 208.323.9336
www.jub.com

PRELIMINARY PLANS

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NO.	DESCRIPTION	BY	APR.	DATE

REVISION

SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

LANDSCAPE NOTES

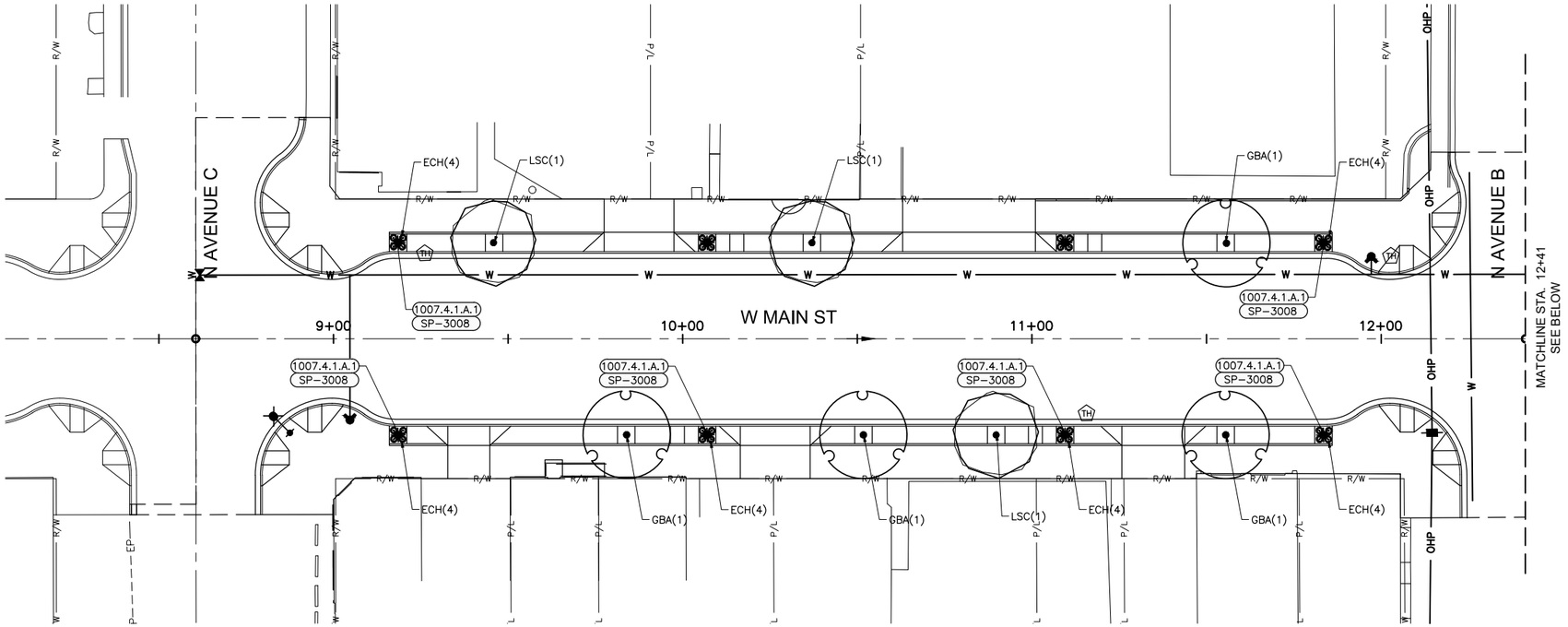
FILE : 10-17-142_L-101X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
CHECKED BY: BDS

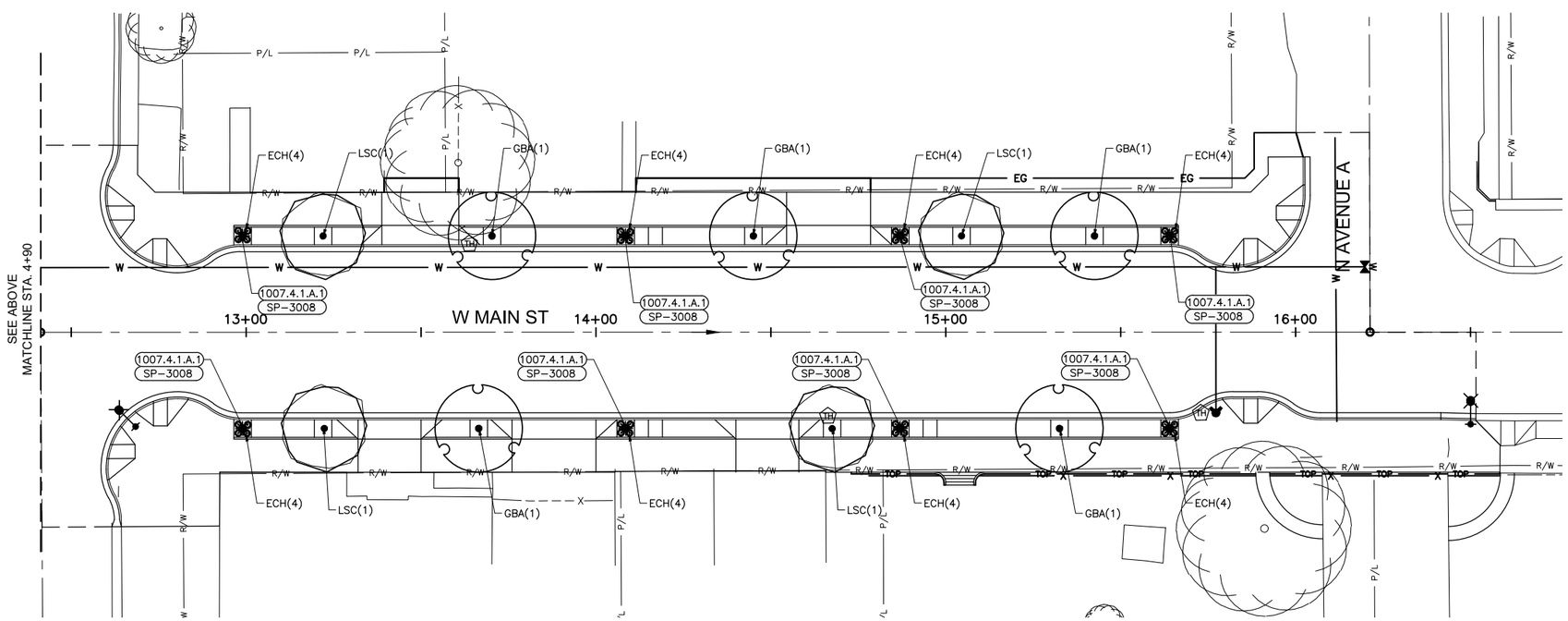
ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 4/6/2018

SHEET NUMBER:
L-001

Plot Date:4/13/2018 11:45 AM Plotted By: Matt Sipple
Date Created:2/2/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_L-101X.DWG





1007.4.1.A.1	TOPSOILING
SP-3005	PLANTINGS – 5 GAL.
SP-3006	PLANTINGS – 1 GAL.
SP-3007	TREE 2" CALIPER
SP-3008	ROCK MULCH (1/4" CRUSHED ROCK)

0 20 40
SCALE IN FEET

Know what's below. Call before you dig.

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

PLANTING PLAN

FILE : 10-17-142_L-101X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
DESIGN BY: TAB
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ONE INCH
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SHEET NUMBER:
L-101

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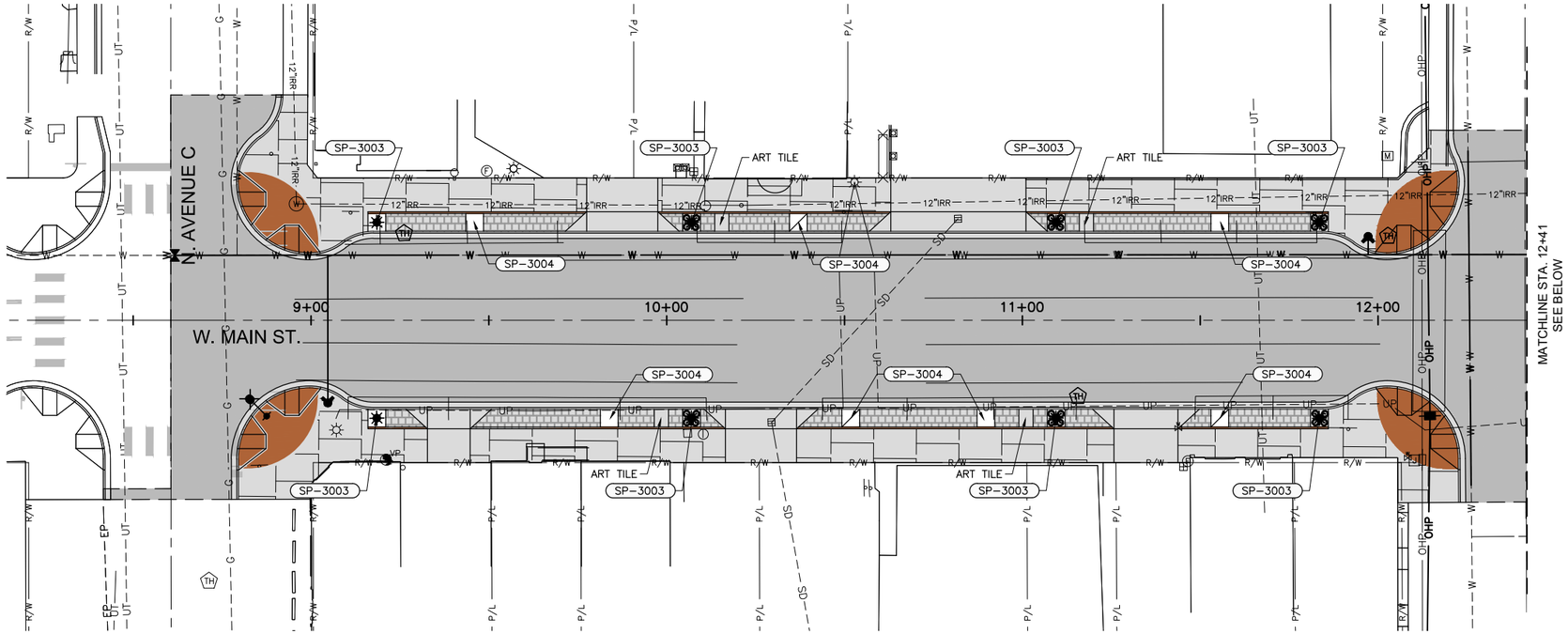
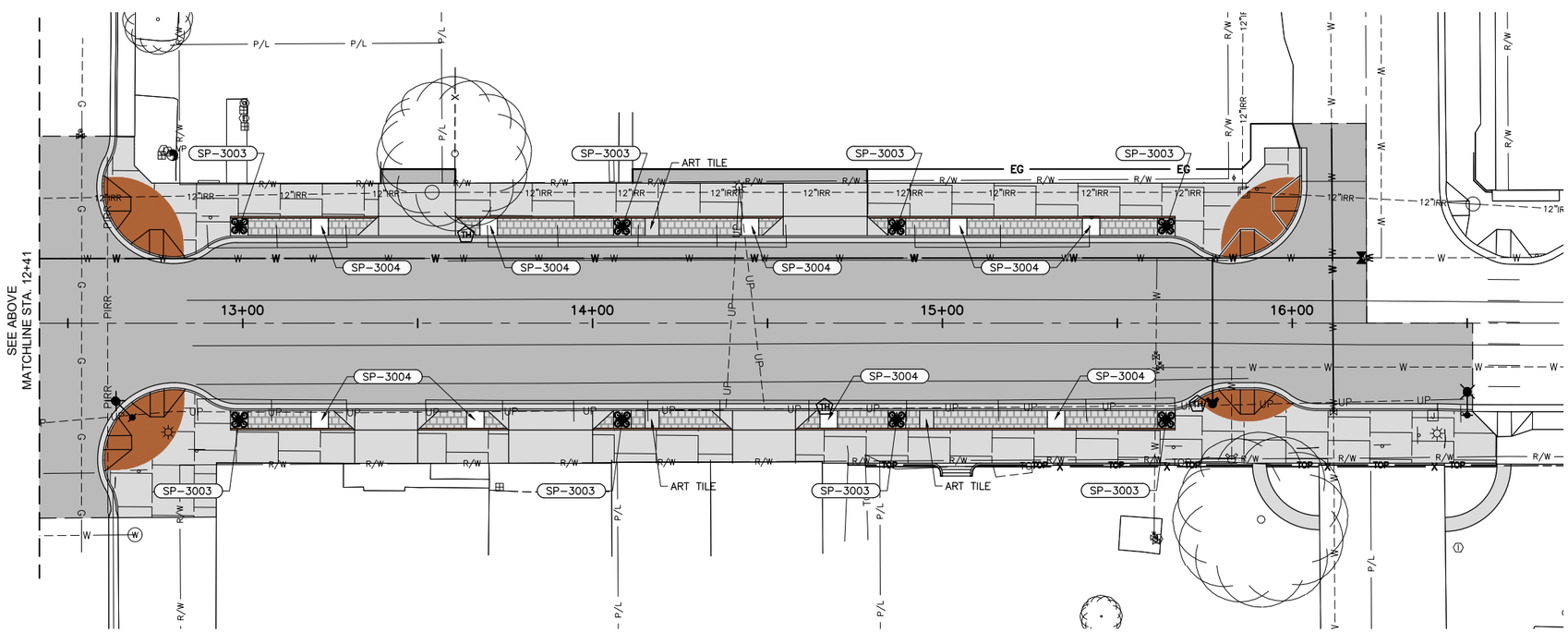
Date Created:2/2/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_L-101X.DWG





SP-3003 DECORATIVE STREET LIGHT

SP-3004 TREE GRATE

NOTES:

1. 4'x5' ART TILES SHALL BE BROOMED CONCRETE FINISH FOR FUTURE ART EXHIBIT INSTALLATION.

N

0 20 40

SCALE IN FEET

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

SIDEWALK SCORING & PAVEMENT PLAN

FILE : 10-17-142 L-200X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
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ONE INCH
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SHEET NUMBER:

L-201

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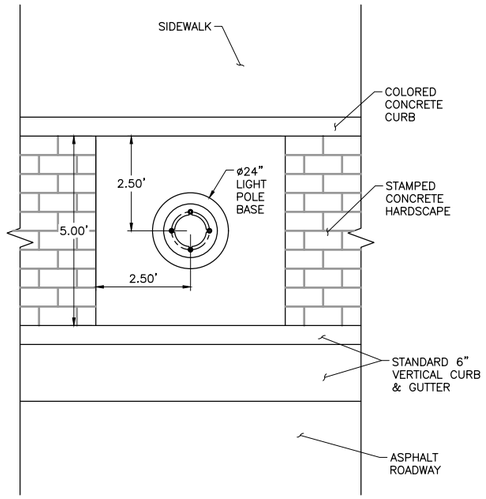
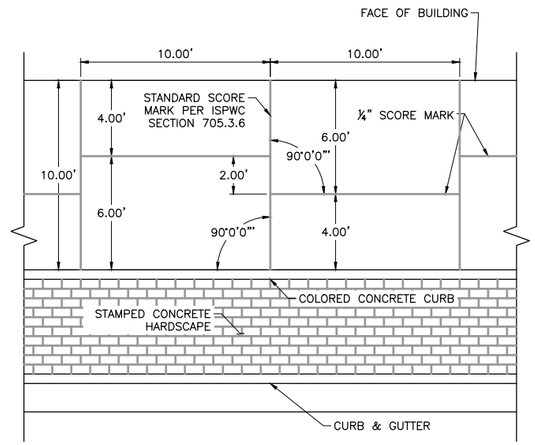


1 DECORATIVE LIGHT POLE INSTALLATION DETAIL
SCALE:N.T.S.



2 CONCRETE SIDEWALK SCORING DETAIL
SCALE:N.T.S.
STA. 4+50 TO STA. 9+00 (W. MAIN ST.)

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FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

SIDEWALK SCORING & PAVEMENT

FILE : 10-17-142_L-200X
JUB PROJ. # : 10-17-142
DRAWN BY: SMD/MCS
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CHECKED BY: BDS

ONE INCH
AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 4/6/2018

SHEET NUMBER:
L-202

Plot Date:4/13/2018 11:45 AM Plotted By: Matt Sipple
Date Created:2/2/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_L-200X.DWG

IRRIGATION NOTES

1. THE CONTRACTOR SHALL BE FAMILIAR WITH THE IRRIGATION TECHNICAL SPECIFICATIONS FOR THIS PROJECT. FAILURE TO DO SO SHALL NOT RELIEVE HIM OF MEETING ALL OF THE REQUIREMENTS CONTAINED THEREIN.

2. THE IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE, AND SOME DRAFTING LIBERTIES HAVE BEEN TAKEN TO MAINTAIN THE GRAPHIC CLARITY OF THE DRAWINGS. ALL IRRIGATION EQUIPMENT SHALL BEN LOCATED IN PLANTING AREAS ONLY, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL INSTALL PIPING TO MINIMIZE CHALLENGES IN DIRECTION, AVOID PLACEMENT UNDER LARGE TREES OR LARGE SHRUBS, AND AVOID PLACEMENT UNDER HARDSCAPE FEATURES. REFER TO THE IRRIGATION EQUIPMENT SCHEDULE, INSTALLATION DETAILS, AND SPECIFICATIONS FOR EQUIPMENT AND ITS PROPER INSTALLATION.

3. THE CONTRACTOR SHALL USE ONLY THE EQUIPMENT AND PRODUCTS SPECIFIED IN THE PROJECT SPECIFICATIONS. NO SUBSTITUTION OF MATERIALS WILL BE ALLOWED ON THE IRRIGATION SYSTEM WITHOUT PRIOR APPROVAL FROM THE ENGINEER/OWNER.

4. THE CONTRACTOR SHALL VISIT AND INSPECT THE PROJECT SITE. HE SHALL TAKE INTO CONSIDERATION KNOWN AND REASONABLY INFERABLE CONDITIONS AFFECTING THE PROPOSED WORK. FAILURE TO VISIT THE SITE SHALL NO RELIEVE THE CONTRACTOR OF FURNISHING MATERIALS AND PERFORMING THE WORK REQUIRED. ANY DISCREPANCIES BETWEEN EXISTING SITE CONDITIONS AND THOSE INDICATED ON THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER/OWNER PRIOR TO CONTINUANCE OF THE PROJECT.

5. IF THE WATER PRESSURE IS UNUSUALLY HIGH OR LOW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER/OWNER PRIOR TO PROCEEDING WITH ANY IRRIGATION WORK.

6. PIPE FITTINGS AND UNIONS SHALL CONFORM TO THE FOLLOWING STANDARDS UNLESS OTHERWISE NOTED:

   A. ALL MAIN LINE AND LATERAL LINE PIPE, TWO (2) INCHES INSIDE DIAMETER AND SMALLER SHALL BE 250 PSI NSF POLY PIPE, EXCEPT THOSE SPECIFIED AS METAL OR SCHEDULE 80 PVC IN THE POINT OF CONNECTION VAULT.

7. BACKFLOW PREVENTION DEVICES SHALL BE A DOUBLE CHECK PRINCIPLE BACKLOW PREVENTER CONSISTING OF TWO INDEPENDENTLY OPERATED SPRING–LOADED CENTER GUIDED CHECK VALVES. ASSEMBLY SHALL ALSO HAVE TWO BALL VALVES AND FOUR RESILIENT SEATED BALL VALVE TEST COCKS. BACKFLOW PREVENTER SHALL BE AS SPECIFIED IN THE IRRIGATION EQUIPMENT SCHEDULE.

8. IRRIGATION WIRE SHALL CONFORM TO THE FOLLOWING:

   A. ALL OUT–OF–GROUND CONDUITS SHALL BE RIGID METAL. ALL BURIED CONDUIT SHALL BE PVC. IN AREAS WHERE RODENTS ARE A KNOWN ISSUE, ALL WIRING SHALL BE PLACED IN CONDUIT.

   B. ALL SPLICES SHALL BE WATER–TIGHT. EACH CONNECTOR SHALL BE COMPLETELY SEALED AND WATER–PROOF.

   C. NO ALUMINUM WIRE SHALL BE USED ON THIS PROJECT.

   D. RUN A SINGLE FOURTEEN (14) GAUGE WIRE ALONG THE TOP OF THE MAIN LINE TO BE USED FOR TRACKING LOCATION OF THE MAIN LINE. EVERY TWENTY (20) FEET THERE SHALL BE A TWENTY–FOUR (24) INCH LOOP. THE COLOR OF THE TRACING WIRE SHALL BE DIFFERENT THAN ANY OTHER COLOR USED.

9. ALL 2" PRESSURE MAIN LINES SHALL HAVE BETWEEN EIGHTEEN (18) AND THIRTY (30) INCHES OF COVER, WHILE ALL 1" LATERAL LINES SHALL HAVE BETWEEN TWELVE (12) AND THIRTY (30) INCHES OF COVER. TRENCH BEDDING AND BACKFILL MATERIAL SHALL CONSIST OF EXISTING SITE SOIL FREE OF ROCKS LARGER THAN ONE (1) INCH IN DIAMETER AND ANY OTHER DEBRIS. WASTED PIPE AND OTHER EXCESS PROJECT MATERIALS OR RUBBISH (TAPE WIRE, TRASH, WRAPPERS, BOXES, PLASTIC OR GLASS BOTTLES. ETC.) SHALL NOT BE BACKFILLED INTO THE TRENCHES. ALL TRENCHES SHALL BE BACKFILLED, AND THEN WATERED SUFFICIENTLY TO INSURE TO SETTLING OF THE SURFACE. IN THE EVENT OF ANY BACKFILL SETTLEMENT PRIOR TO THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL PERFORM ALL REQUIRED REPAIRS AT HIS OWN EXPENSE.

10. ALL BATTERY OPERATED CONTROL VALVES SHALL BE PROVIDED BY THE CITY AND INSTALLED PER THE DETAILS SHOWN ON THE PLANS. EACH CONTROL VALVE SHALL HAVE ITS OWN SEPARATE SHUT–OFF VALVE. CONTRACTOR SHALL INSTALL AND VERIFY THE BOTTOM OF THE REMOTE CONTROL VALVE IS A MINIMUM OF FOUR (4) INCHES ABOVE THE GRAVEL.

11. ALL MAIN LINES AND LATERAL LINES SHALL BE SLEEVED WHERE THEY PASS UNDER ANY PAVED OR CONCRETE AREAS. THE SIZE OF THE SLEEVE SHALL BE TWICE THE SIZE OF THE PIPE TO BE SLEEVED, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

12. 1–INCH BATTERY OPERATED CONTROL VALVES SHALL BE PROVIDED BY THE CITY AND INSTALLED BY THE CONTRACTOR FOR THE TYPE AND SIZE SPECIFIED, AND LOCATED AS SHOWN ON THE PLANS AND IN THE IRRIGATION DETAILS. COORDINATE THIS WORK WITH THE CITY AND OTHER TRADES ON THIS PROJECT.

13. PRIOR TO BACKFILLING ANY TRENCHES OR IRRIGATION LINES:

   A. ALL MAIN LINES SHALL BE CAPPED AND PRESSURE TESTED AT 120 PSI FOR A PERIOD OF 4 HOURS. ANY LEAKS FOUND SHALL BE CORRECTED BY REMOVING THE LEAKING PIPE OR FITTINGS AND INSTALLING NEW MATERIAL IN ITS PLACE. REPEAT THE PRESSURE TEST TO INSURE THE ABSENCE OF LEAKS.

   B. THE CONTRACTOR SHALL NOT ALLOW NOR CAUSE ANY OF HIS WORK TO BE COVERED UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ENGINEER/OWNER.

   C. WHERE A MAIN LINE HAS BEEN ALLOWED TO SIT IN THE TRENCH UNCOVERED FOR ANY LENGTH OF TIME PIOR TO TESTING, THE LINE MAY BE COVERED BY A 2–INCH LAYER OF SOIL TO MINIMIZE WEATHER RELATED EXPANSION OR CONTRACTION OF THE PIPE.

14. WHEN THE SPRINKLER SYSTEM HAS BEEN COMPLETED, THE CONTRACTOR SHALL, IN THE PRESENCE OF THE ENGINEER/OWNER, CONDUCT A COVERAGE TEST OF THE WATER AFFORDED TO THE PLANTING AREAS TO INSURE THAT IT IS CONSISTENT AND UNIFORM. THE CONTRACTOR SHALL PROVIDE, AT HIS OWN EXPENSE, ALL MATERIALS AND LABOR NECESSARY TO CORRECT ANY DEFICIENCIES OR INADEQUACIES DISCOVERED DURING THE COVERAGE TEST.

15. THE CONTRACTOR SHALL KEEP ON SITE A CURRENT AND ACCURATE AS–BUILT RECORD OF HIS WORK. IT SHALL INCLUDE EXACT DIMENSIONED LOCATIONS, GRADES, ELEVATIONS, AND THE SIZE OF ALL EXTERIOR AND INTERIOR UNDERGROUND PIPING, VALVES, AND DRAINS. DIMENSIONS SHALL INDICATE DISTANCES FROM COLUMNS, BUILDINGS, CURBS, AND SIMILAR PERMANENT FEATURES ON THE SITE. THIS INFORMATION SHALL BE RECORDED ON A PRINT AS WORK PROGRESSES, BUT SHALL BE PERMANENTLY RECORDED ON A REPRODUCIBLE, ORIGINAL WHICH SHALL BE PROVIDED TO THE OWNER BEFORE THE PROJECT IS ACCEPTED.

16. THE IRRIGATION CONTRACTOR SHALL MAINTAIN THE SYSTEM FOR THE DURATION OF THE CONTRACT PERIOD.

17. INSTALLATION OF INLINE DRIP CIRCUITS SHALL BE PROVIDED BY THE CITY.

18. ASSEMBLE AND INSTALL BALL VALVE, FILTER, REMOTE CONTROL VALVE, AND INLINE PRESSURE ASSEMBLY IN ACCORDANCE WITH INSTALLATION DETAILS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
◐	Electric Remote Control Valve Assembly, Electric Remote Control Valve, 220 psi rated plastic globe valve, filter sentry, pressure regulator.
⧗	2" cast iron gate isolation valve. Flanged Gasket Ends. Resilient wedge with epoxy coating. Handwheel. Same size as mainline pipe.
D	Manual Drain Valve Assembly Ball valve with weld top (3/4")
BF	Backflow Prevention Device Assembly 2" Double Check Valve w/ wye strainer and Blow-Out/Flush Fitting.
C1	Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included. Provided by City.
C2	Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included. Provided by City.
C3	Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included. Provided by City.
C4	Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included. Provided by City.
POC ●	Point of Connection 2" Domestic Water Service - City of Kuna
———	Irrigation Lateral Line: 1" Polyethylene Irrigation Pipe
— — — —	Irrigation Mainline: 2" Polyethylene Irrigation Pipe
– – – –	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall be twice the size of the pipe being sleeved. Extend sleeves 18 inches beyond edges of paving or construction.

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SMA-7179, MAIN ST, AVENUE C TO AVENUE A, KUNA
FEDERAL AID PROJECT NO. A020(143), KEY NO. 20143

IRRIGATION NOTES

FILE : 10-17-142_I-001
JUB PROJ. # : 10-17-142
DRAWN BY: MCS
DESIGN BY: GHG
CHECKED BY: TAB
ONE INCH
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LAST UPDATED: 4/6/2018

SHEET NUMBER:
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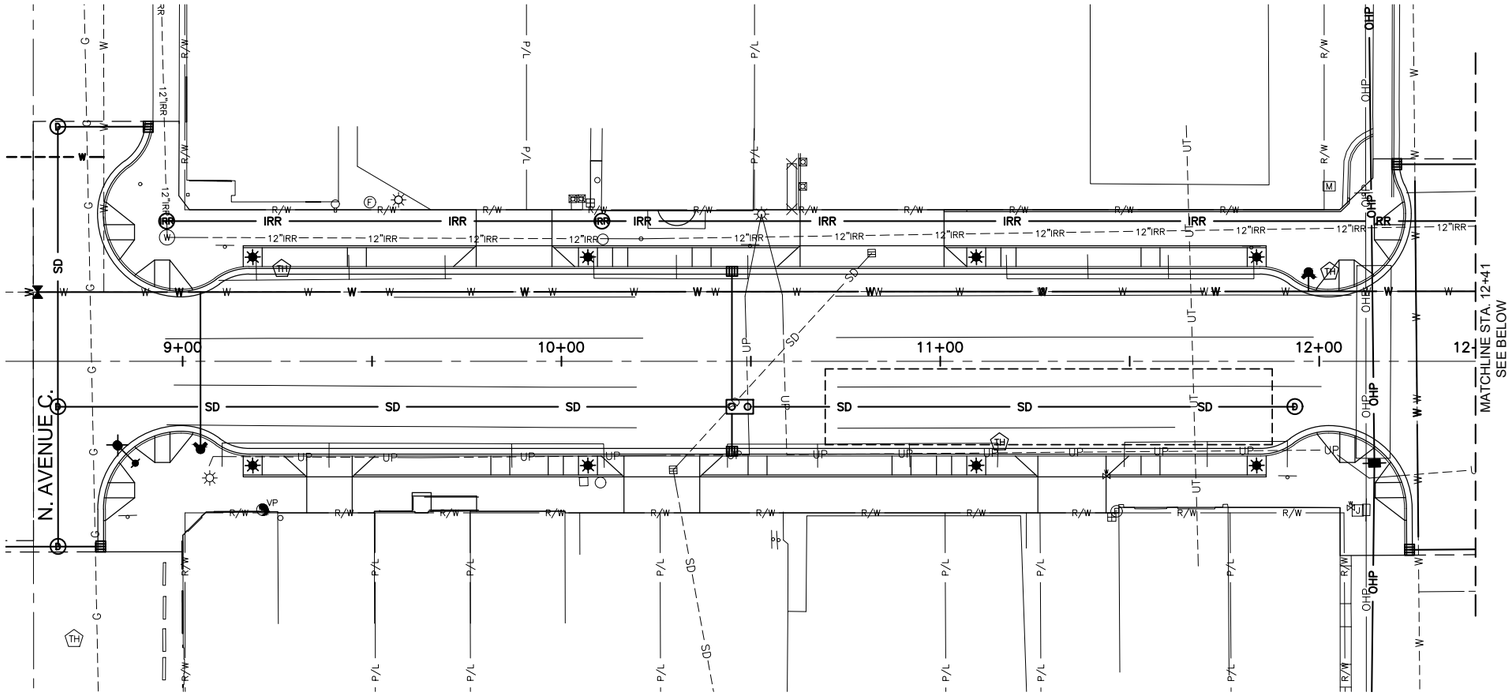
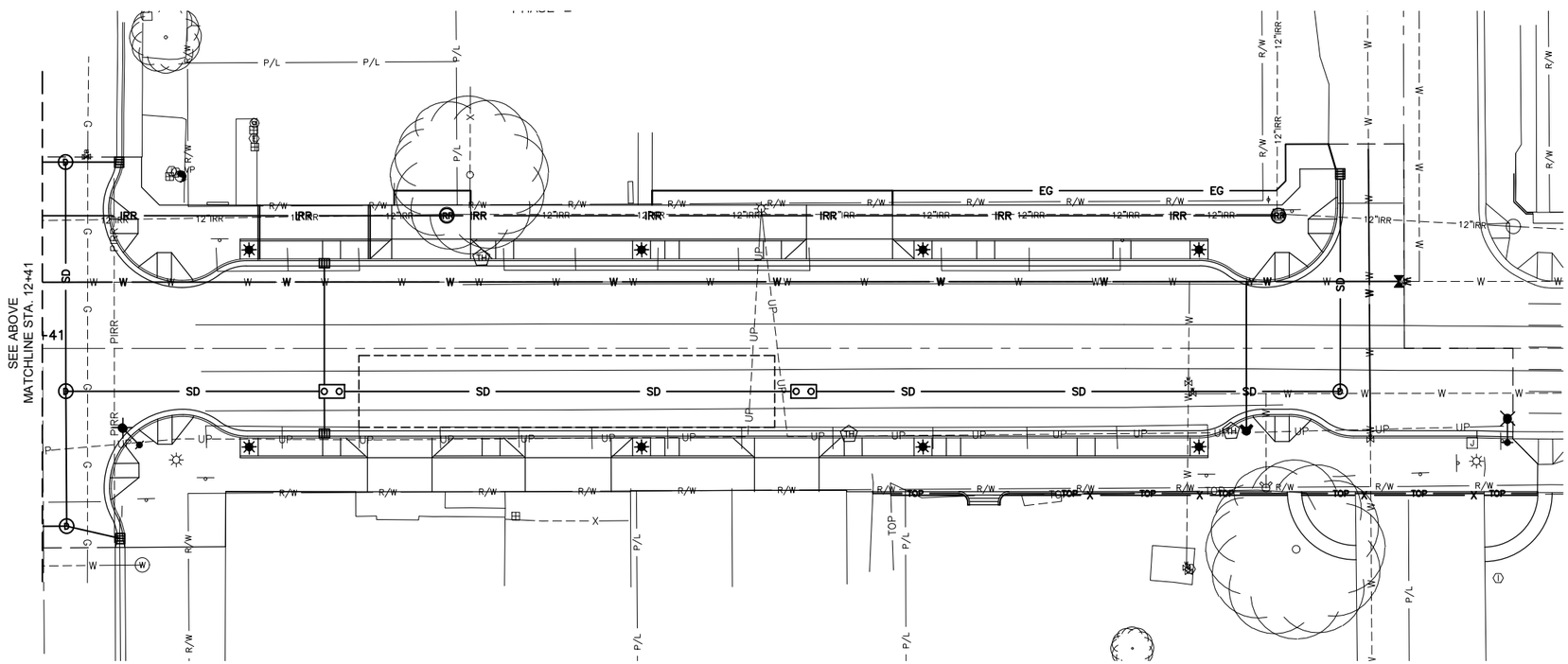
Plot Date:4/13/2018 11:45 AM Plotted By: Matt Sipple
Date Created:12/6/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IIA & IIB\CAD\SHEET\10-17-142_I-001.DWG





404.4.1.A.1	WATER SERVICE CONNECTION – 2" DIA. PVC SDR 7
901.4.1.A.1	2" DIA. PRESSURE IRR. MAIN – POLYETHYLENE
901.4.1.A.2	1" DIA. PRESSURE IRR. LATERAL – POLYETHYLENE
902.4.1.A.1	MANUAL DRAIN VALVE ASSEMBLY
SP-3011	IRRIGATION POINT OF CONNECTION VAULT
SP-3012	IRRIGATION CONTROL VALVE VAULT

0 20 40
SCALE IN FEET

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IRRIGATION PLAN

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LAST UPDATED: 4/6/2018

SHEET NUMBER:
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Plot Date:4/13/2018 11:46 AM Plotted By: Matt Sipple
Date Created:12/6/2018 \\BOISEFILES\PUBLIC\PROJECTS\JUB\10-17-142 KUNA DOWNTOWN REVIT PHASE IA & IIB\CAD\SHEET\10-17-142_I-001.DWG