WASATCH STEEL

AN INDUSTRIAL SITE PLAN
SANTAQUIN, UTAH
FINAL PLAN SET
MAY 2024

-SHEET INDEX-

DATA TABLE
TOTAL ACREAGE=2.10 ACRES
ACREAGE OF OPEN SPACE/LANDSCAPING=0.59 ACRES
% OF OPEN SPACE = 28.10%
ZONING= I-1

PARKING TABLE
1,600 SF OFFICE (1 STALL PER 200 SF)
1,600 SF RETAIL (ANCILLARY COMMERCIAL, 2 STALLS PER 1,000 SF)
12,800 SF WAREHOUSE, 1 STALL PER 1,000 SF
PARKING REQUIRED: 24 STALLS
PARKING STALLS PROVIDED: 24 STALLS
TRUCK STALLS PROVIDED: 7 STALLS

GENERAL NOTES:
1. THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITHIN DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCE AND STANDARDS.
2. REGIONAL GEOTECHNICAL INVESTIGATION TITLED "SUMMIT RIDGE DEVELOPMENT" CONDUCTED BY RB&G ENGINEERING INC. DATED MARCH 13, 2023 CONTAINS PERTINENT GEOTECHNICAL INFORMATION. IT IS RECOMMENDED THAT THE DEVELOPER ORDERS A SITE-SPECIFIC GEOTECHNICAL REPOR TFOR SITE-SPECIFIC RECOMMENDATIONS.

CONTRACTOR NOTE:
THE SIZE, ELEVATION, & LOCATIONS OF EXISTING IMPROVEMENTS AND UTILITIES SHOWN HEREON ARE ASSUMED AND APPROXIMATELY SHOWN BASED UPON THE FIELD DATA FROM THE SURVEY. ALL SIZES, LOCATIONS & ELEVATIONS ARE TO BE VERIFIED. IF THERE ARE DIFFERENCES OR DISCREPANCIES, ATLAS ENGINEERING, LLC NEEDS TO BE NOTIFIED BEFORE CONSTRUCTION. ATLAS ENGINEERING, LLC WILL NOT BE LIABLE OR RESPONSIBLE FOR REMOVAL, CONSTRUCTION, OR INSTALLATION OF IMPROVEMENTS THAT ARE NOT IN ACCORDANCE WITH THESE PLANS. ANY AND ALL CHANGES OR VARIATIONS IN THE REMOVAL, CONSTRUCTION OR INSTALLATION OF THE IMPROVEMENTS MADE WITHOUT THE APPROVAL OF THE DESIGNER WILL RESULT IN SOLE LIABILITY TO THE CONTRACTOR. IN ADDITION, ATLAS ENGINEERING, LLC ASSUMES NO RESPONSIBILITY FOR ANY AND ALL EXISTING UTILITIES NOT SHOWN ON THIS PLAN AND ASSUMES NO LIABILITY FOR FAILURE TO EXACTLY LOCATE ALL EXISTING UTILITIES, SHOULD THERE BE INCIDENT.

ENGINEER/SURVEYOR CONTACT INFO:
ATLAS ENGINEERING LLC
(801) 655-0566
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

OWNER/DEVELOPER
CURT PAULSON
801-717-6260
JSB.UTAH@GMAIL.COM

VICINITY MAP
-NTS-

LEGEND
(APPLIES TO ALL SHEETS)

- EXISTING POWER POLE
- PROPOSED STREET LIGHT
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING STREET LIGHT
- EXISTING SIGN
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPERTY BOUNDARY
- CENTERLINE
- RIGHT-OF-WAY LINE
- LOT LINE
- SECTION LINE
- EASEMENT
- EXISTING DEED LINE
- EOP — EDGE OF PAVEMENT
- OHP — EXISTING OVER HEAD POWER
- EXISTING FENCE LINE
- SS — EXISTING SANITARY SEWER W/MANHOLE
- EX.SD — EXISTING STORM DRAIN W/MH
- EX.CUL — EXISTING WATER
- EX.PI — EXISTING PRESSURIZED IRRIGATION
- 8"SS — PROPOSED SEWER
- 15"SD — PROPOSED STORM DRAIN
- 8"CUL — PROPOSED CULINARY WATER
- 6"PI — PROPOSED PRESSURIZED IRRIGATION (PURPLE PVC)
- PROPOSED ASPHALT
- PROPOSED CONCRETE/CURB & GUTTER
- REVERSE LIP CURB

WASATCH STEEL

ATLAS ENGINEERING
CIVIL · STRUCTURAL · SURVEY
PHONE:801-655-0566
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

CURVE TABLE					
CURVE	LENGTH	RADIUS	CHORD DIST.	CHORD BRG.	DELTA
C1	23.81'	15.00'	21.39'	N44°31'24"W	90°57'11"

BOUNDARY DESCRIPTION:
BEGINNING AT A POINT WHICH LIES 764.24 FEET FROM THE NORTH 1/4 CORNER OF SECTION 3, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN; THENCE N90°00'00"E 246.74 FEET TO A POINT OF CURVATURE; THENCE SOUTHEASTERLY ALONG A 15.00 FOOT RADIUS CURVE TO THE RIGHT 23.81 FEET, CHORD BEARS S44°31'24"E 21.39 FEET; THENCE S00°57'08"W 324.56 FEET; THENCE N89°34'34"W 252.85 FEET; THENCE N00°30'52"W 355.91 FEET TO THE POINT OF BEGINNING.

AREA = 91,804 SQFT OR 2.10 ACRES

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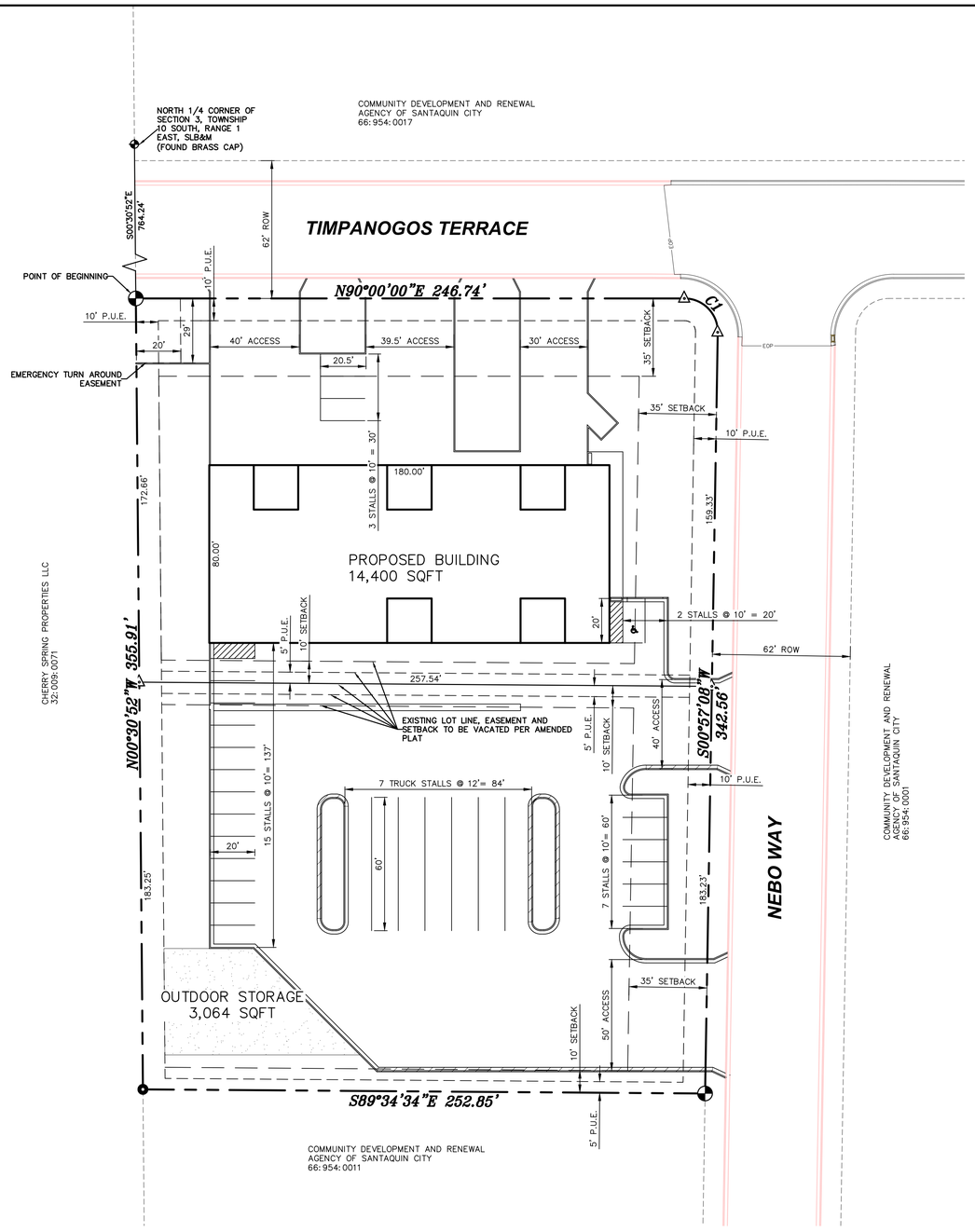
PARKING REQUIRED: 24 STALLS
PARKING STALLS PROVIDED: 24 STALLS
TRUCK STALLS PROVIDED: 7 STALLS

NOTES
1. VERTICAL DATA BASED ON NAVD 88.
2. COORDINATE SYSTEM = NAD83



VICINITY MAP
–NTS–

LEGEND

- EXISTING POWER POLE
- PROPOSED STREET LIGHT
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING STREET LIGHT
- EXISTING SIGN
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPERTY BOUNDARY
- CENTERLINE
- RIGHT-OF-WAY LINE
- LOT LINE
- SECTION LINE
- EASEMENT
- EXISTING DEED LINE
- EDGE OF PAVEMENT
- EXISTING OVER HEAD POWER
- EXISTING FENCE LINE
- EXISTING SANITARY SEWER W/MANHOLE
- EXISTING STORM DRAIN W/MH
- EXISTING WATER
- EXISTING PRESSURIZED IRRIGATION
- PROPOSED SEWER
- PROPOSED STORM DRAIN
- PROPOSED CULINARY WATER
- PROPOSED PRESSURIZED IRRIGATION (PURPLE PVC)
- PROPOSED ASPHALT
- PROPOSED CONCRETE/CURB & GUTTER
- REVERSE LIP CURB

NORTH
0 5 15 30 60 90

(24"x36")
SCALE 1" = 30'
(11"x17")
SCALE 1" = 60'

SHEET NO. 2

NO.	REVISIONS	BY	DATE
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OVERALL BOUNDARY

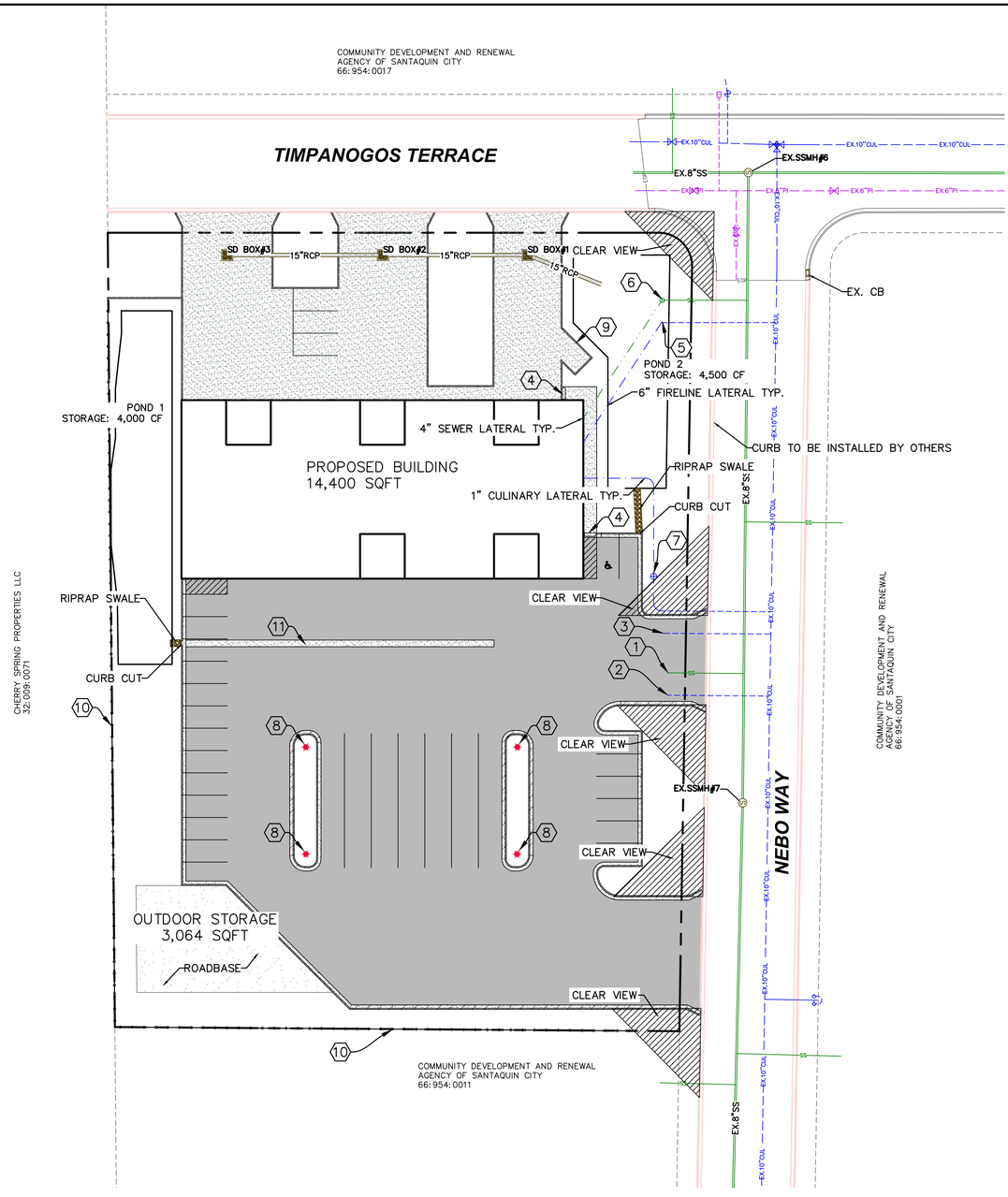
SANTAQUIN, UTAH

WASATCH STEEL
ATLAS ENGINEERING
CIVIL · STRUCTURAL · SURVEY
PHONE:801-655-0566
946 E 800 N, SUITE A
SPANISH FORK, UT 84660

C:\USERS\GAVINWES\ATLAS ENGINEERING\COMMUNICATION SITE - DOCUMENTS\1.0 OPERATIONS\1.1 - CIVIL\2024\24-006 WASATCH STEEL\CADD\PRELIMINARY\02- OVERALL BOUNDARY.DWG

CONSTRUCTION NOTES:

1. EXISTING SEWER LATERAL TO BE ABANDONED.
2. EXISTING FIRELINE LATERAL TO BE ABANDONED.
3. EXISTING CULINARY LATERAL TO BE ABANDONED.
4. INSTALL ADA RAMP PER SANTAQUIN CITY STANDARDS.
5. LOCATE AND TIE TO EXISTING FIRELINE LATERAL.
6. LOCATE AND TIE TO EXISTING SEWER LATERAL.
7. LOCATE AND TIE TO EXISTING CULINARY LATERAL.
8. INSTALL STREET LIGHT PER SANTAQUIN CITY STANDARDS.
9. CONST. DUMPSTER ENCLOSURE PER SANTAQUIN CITY STANDARDS.
10. INSTALL 6 VINYL FENCE.
11. CONST. 3' CONCRETE CROSS-GUTTER.



LEGEND

- EXISTING POWER POLE
- PROPOSED STREET LIGHT
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING STREET LIGHT
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- PROPOSED FIRE HYDRANT
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- EXISTING WATER
- EXISTING PRESSURIZED IRRIGATION
- PROPOSED SEWER
- PROPOSED STORM DRAIN
- PROPOSED CULINARY WATER
- PROPOSED PRESSURIZED IRRIGATION (PURPLE PVC)
- PROPOSED ASPHALT
- PROPOSED CONCRETE/CURB & GUTTER
- REVERSE LIP CURB

NORTH

0 5 15 30 60 90

(24"x36")
SCALE 1" = 30'
(11"x17")
SCALE 1" = 60'

SHEET NO. 3

NO.	REVISIONS	BY	DATE
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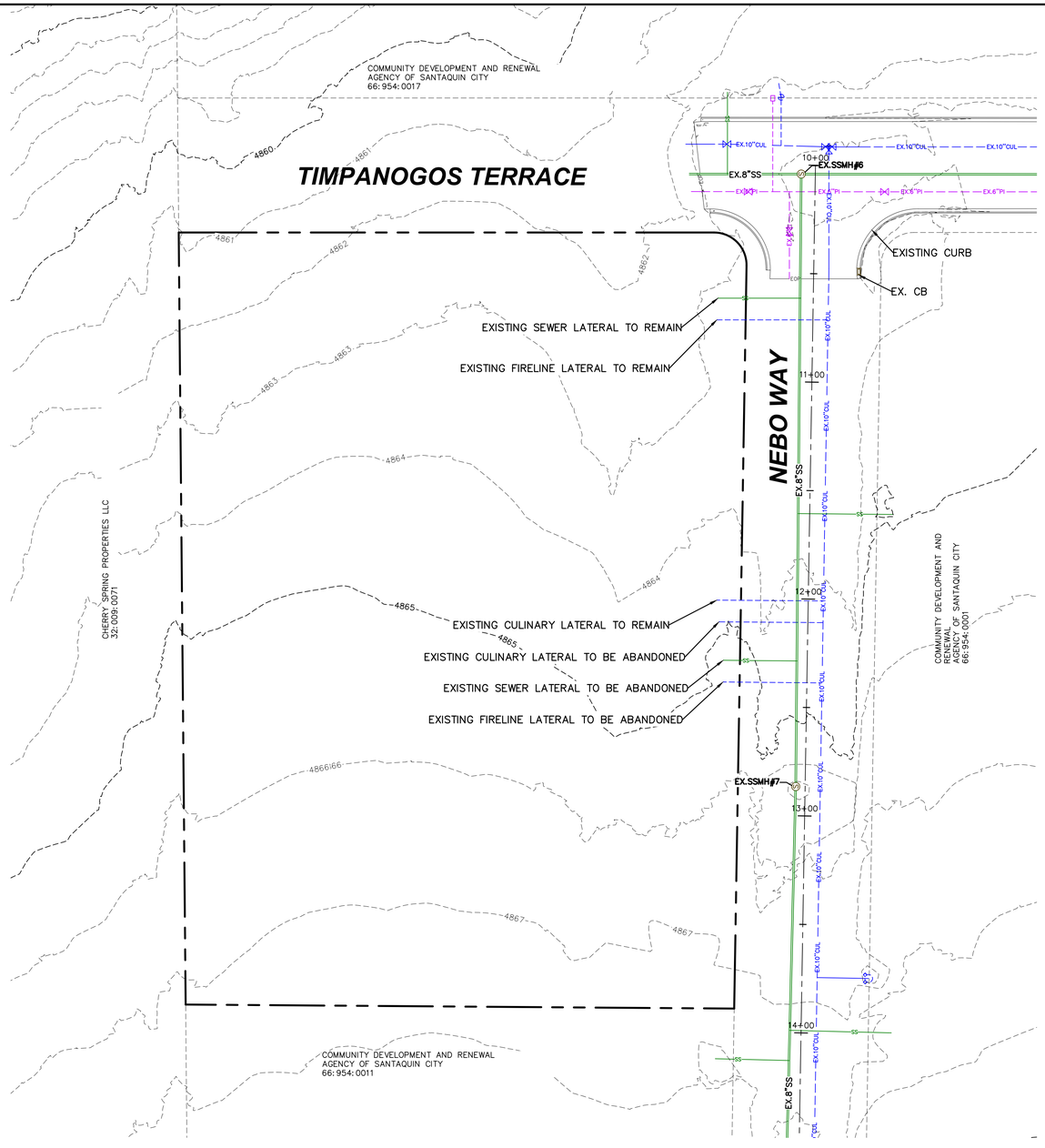
SITE PLAN

SANTAQUIN, UTAH

WASATCH STEEL
ATLAS ENGINEERING
CIVIL · STRUCTURAL · SURVEY
PHONE:801-655-0566
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

C:\USERS\GAVINWEST\ATLAS ENGINEERING\COMMUNICATION SITE - DOCUMENTS\1.0 OPERATIONS\1.1 - CIVIL\2024\24-006 WASATCH STEEL\CADD\PRELIMINARY\03- SITE PLAN.DWG



LEGEND

- EXISTING POWER POLE
- PROPOSED STREET LIGHT
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING STREET LIGHT
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- REVERSE LIP CURB

NORTH

0 5 15 30 60 90

(24"x36")
SCALE 1" = 30'
(11"x17")
SCALE 1" = 60'

SHEET NO. 4

NO.	REVISIONS	BY	DATE
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EXISTING TOPOGRAPHY

SANTAQUIN, UTAH

WASATCH STEEL
ATLAS ENGINEERING
CIVIL · STRUCTURAL · SURVEY
PHONE:801-655-0566
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

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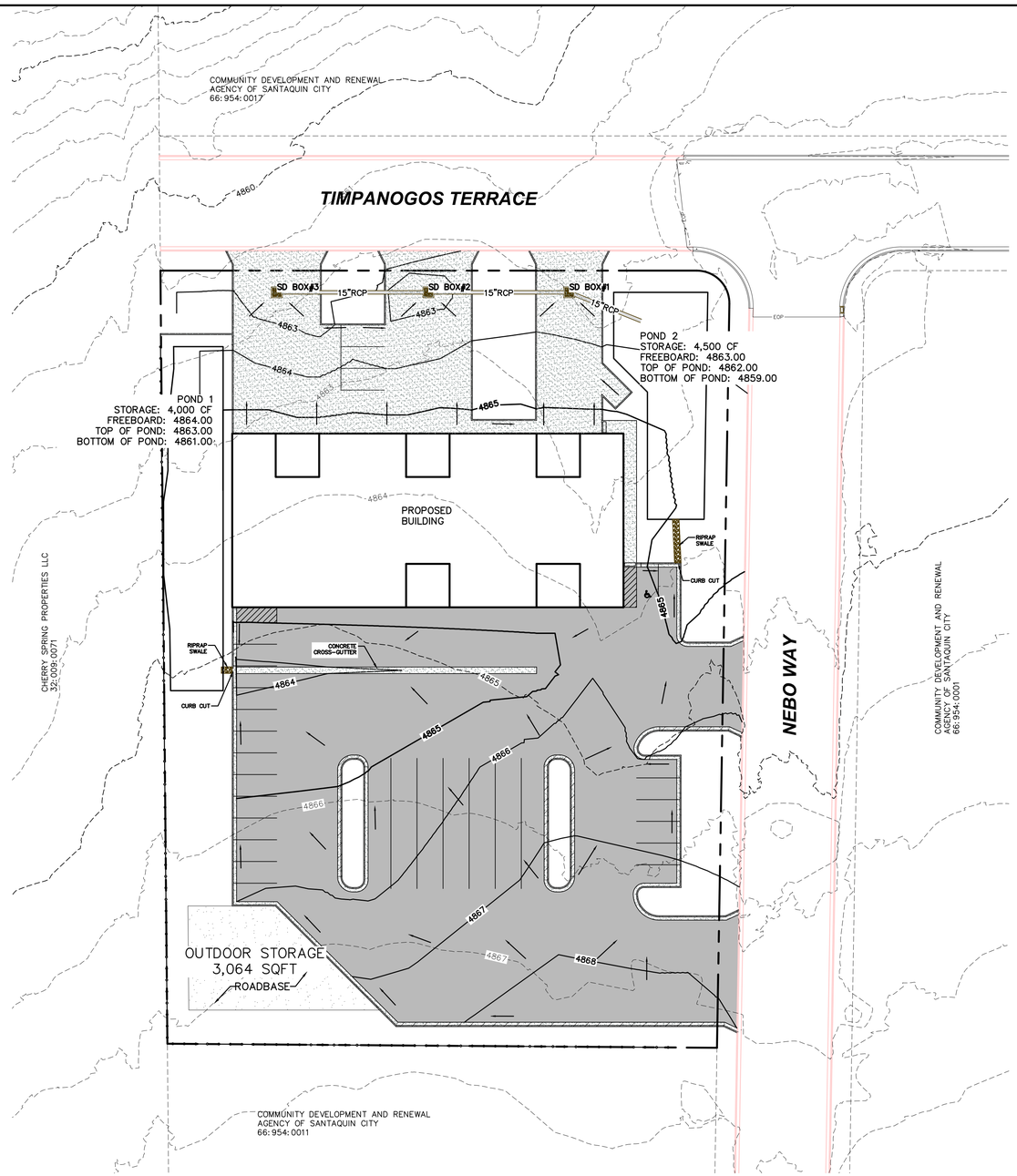

LEGEND

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(24"x36")
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NO.	REVISIONS	BY	DATE
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SHEET NO. 5

DRAINAGE PLAN

SANTAQUIN, UTAH

WASATCH STEEL

ATLAS ENGINEERING
CIVIL · STRUCTURAL · SURVEY
PHONE:801-655-0566
946 E 800 N, SUITE A
SPANISH FORK, UT 84660

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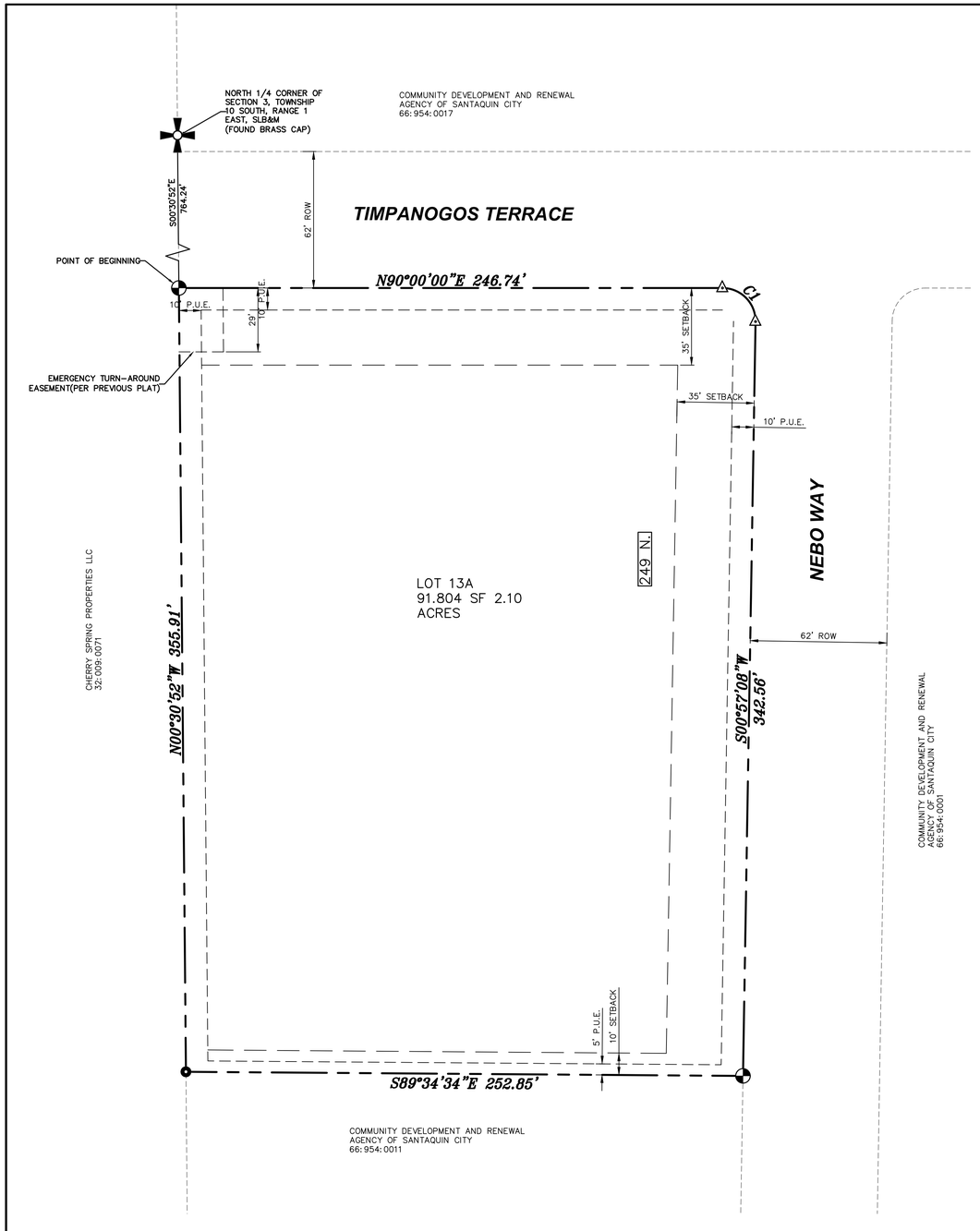

LEGEND

- UTAH COUNTY MONUMENT
- SET 5/8" REBAR & CAP
- SET CURB PIN
- CALCULATED POINT, NOT SET
- PROPERTY BOUNDARY
- RIGHT-OF-WAY LINE
- LOT LINE
- SECTION LINE
- SETBACK
- EASEMENT
- CENTERLINE
- XXX X. ADDRESSES
- 1 PROPOSED LOT NUMBERS

VICINITY MAP
-NTS-

CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD DIST.	CHORD BRG.	DELTA
C1	23.81'	15.00'	21.39'	N44°31'24"W	90°57'11"

DATA TABLE
TOTAL ACREAGE=2.10 ACRES
ACREAGE OF OPEN SPACE/LANDSCAPING=0.63 ACRES
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NOTES
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2. COORDINATE SYSTEM = NAD83

NORTH
0 5 15 30 60 90

(24"x36")
SCALE 1" = 30'
(11"x17")
SCALE 1" = 60'

SURVEYOR'S CERTIFICATE

I, DAVID F. HUNT DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, AND THAT I HOLD CERTIFICATE NO. 5243543 AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY BY AUTHORITY OF THE OWNERS, I HAVE MADE A SURVEY OF SAID TRACT OF LAND SHOWN ON THIS PLAT AND DESCRIBED BELOW, AND HAVE SUBDIVIDED SAID TRACT OF LAND INTO LOTS, STREETS, AND EASEMENTS AND THAT THE SAME HAS BEEN CORRECTLY SURVEYED AND STAKED ON THE GROUND AS SHOWN ON THIS PLAT AND THAT THIS IS TRUE AND CORRECT.

03-13-24
DATE

BOUNDARY DESCRIPTION

ALL OF LOTS 12 & 13, SANTAQUIN PEAKS INDUSTRIAL PARK SUBDIVISION ACCORDING TO THE OFFICIAL PLAT OF RECORD ON FILE AS MAP 18792 IN THE UTAH COUNTY RECORDER'S OFFICE, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 13, SAID POINT ALSO LOCATED S00°30'52"E 764.24 FEET FROM THE NORTH 1/4 CORNER OF SECTION 3, TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN; THENCE N90°00'00"E 246.74 FEET TO A POINT OF CURVATURE; THENCE SOUTHEASTERLY ALONG A 15.00 FOOT RADIUS CURVE TO THE RIGHT 23.81 FEET, CHORD BEARS S44°31'24"E 21.39 FEET; THENCE S00°57'08"W 324.56 FEET; THENCE N89°34'34"W 252.85 FEET; THENCE N00°30'52"W 355.91 FEET TO THE POINT OF BEGINNING.

AREA = 91,804 SQFT OR 2.10 ACRES

OWNER'S DEDICATION

(I)WE, _____, _____ BEING THE UNDERSIGNED OWNER(S) OF ALL THE PROPERTY DESCRIBED IN THE SURVEYOR'S CERTIFICATE HEREON AND SHOWN ON THIS MAP, HAVE CAUSED THE SAME TO BE SUBDIVIDED INTO LOTS, STREETS, AND EASEMENTS AND DO HEREBY DEDICATE THE STREETS AND OTHER PUBLIC AREAS AS INDICATED HEREON FOR PERPETUAL USE OF THE PUBLIC.

IN WITNESS HEREOF WE HAVE HEREUNTO SET OUR HANDS(S) THIS_____ DAY OF _____. A.D. 2024.

_____
K & S CAPITAL LLC, BY: SCOTT JACKSON ITS: MANAGER

ACKNOWLEDGMENT

STATE OF UTAH)
COUNTY OF UTAH) S.S.

ON THE_____DAY OF_____, A.D. 2024 PERSONALLY APPEARED BEFORE ME_____ WHOSE IDENTITY IS PERSONALLY KNOWN TO ME OR PROVEN IN THE BASIS OF SATISFACTORY EVIDENCE AND WHO BY ME DULY SWORN/AFFIRED, DID SAY THAT THEY ARE THE_____ OF _____ AND THAT SAID DOCUMENT WAS SIGNED BY THEM IN BEHALF OF SAID_____, AND SAID ACKNOWLEDGED TO ME THAT SAID_____ EXECUTED THE SAME.

_____
A NOTARY PUBLIC COMMISSIONED IN THE STATE OF UTAH

_____ _____
COMMISSION NUMBER / EXPIRES PRINTED FULL NAME OF NOTARY

ACCEPTANCE BY LEGISLATIVE BODY

THE _____ OF _____ COUNTY OF UTAH, APPROVES THIS SUBDIVISION AND HEREBY ACCEPTS THE DEDICATION OF ALL STREETS, EASEMENTS, AND OTHER PARCELS OF LAND INTENDED FOR PUBLIC PURPOSES FOR THE PERPETUAL USE OF THE PUBLIC THIS_____ DAY OF_____ A.D. 2024.

APPROVED _____ APPROVED _____
CITY MANAGER CITY ATTORNEY

APPROVED _____ ATTEST _____
ENGINEER (SEE SEAL) CLERK-RECORDER

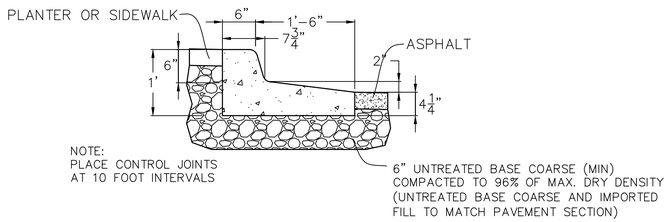
APPROVED _____
COMMUNITY DEVELOPMENT DIRECTOR

SANTAQUIN PEAKS INDUSTRIAL PARK A1

AN AMENDMENT OF SANTAQUIN PEAKS INDUSTRIAL PARK PLAT,
AMENDING LOTS 12 & 13
SANTAQUIN, UTAH

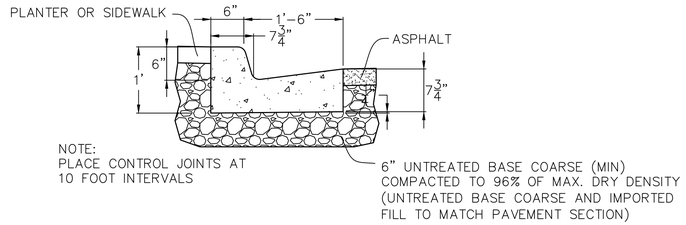
CONTAINING 1 LOT AND 2.10 ACRES.
LOCATED IN THE NORTH 1/4 OF SECTION 3, OF TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN, UTAH COUNTY, UTAH.

CLERK-RECORDER SEAL	SURVEYOR'S SEAL	NOTARY PUBLIC SEAL	CITY ENGINEER SEAL	COUNTY RECORDER SEAL
	PROFESSIONAL LAND SURVEYOR 03-13-24 DAVID F. HUNT LICENSE NO. 5243543-2201 STATE OF UTAH			



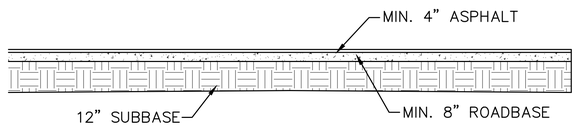
24" REVERSE LIP CURB & GUTTER

FOR USE IN PRIVATE STREETS
–NTS–



24" STANDARD CURB & GUTTER

FOR USE IN PRIVATE STREETS
–NTS–



PARKING LOT CROSS SECTION

–NTS–

*A SITE–SPECIFIC GEOTECHNICAL REPORT HAS NOT BEEN CONDUCTED. THICKNESSES USED ARE FROM SANTAQUIN CITY STANDARDS AND HAVE BEEN ADJUSTED CONSERVATIVELY.

SHEET NO. DT-01

NO.	REVISIONS	BY	DATE
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2			
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11			
12			

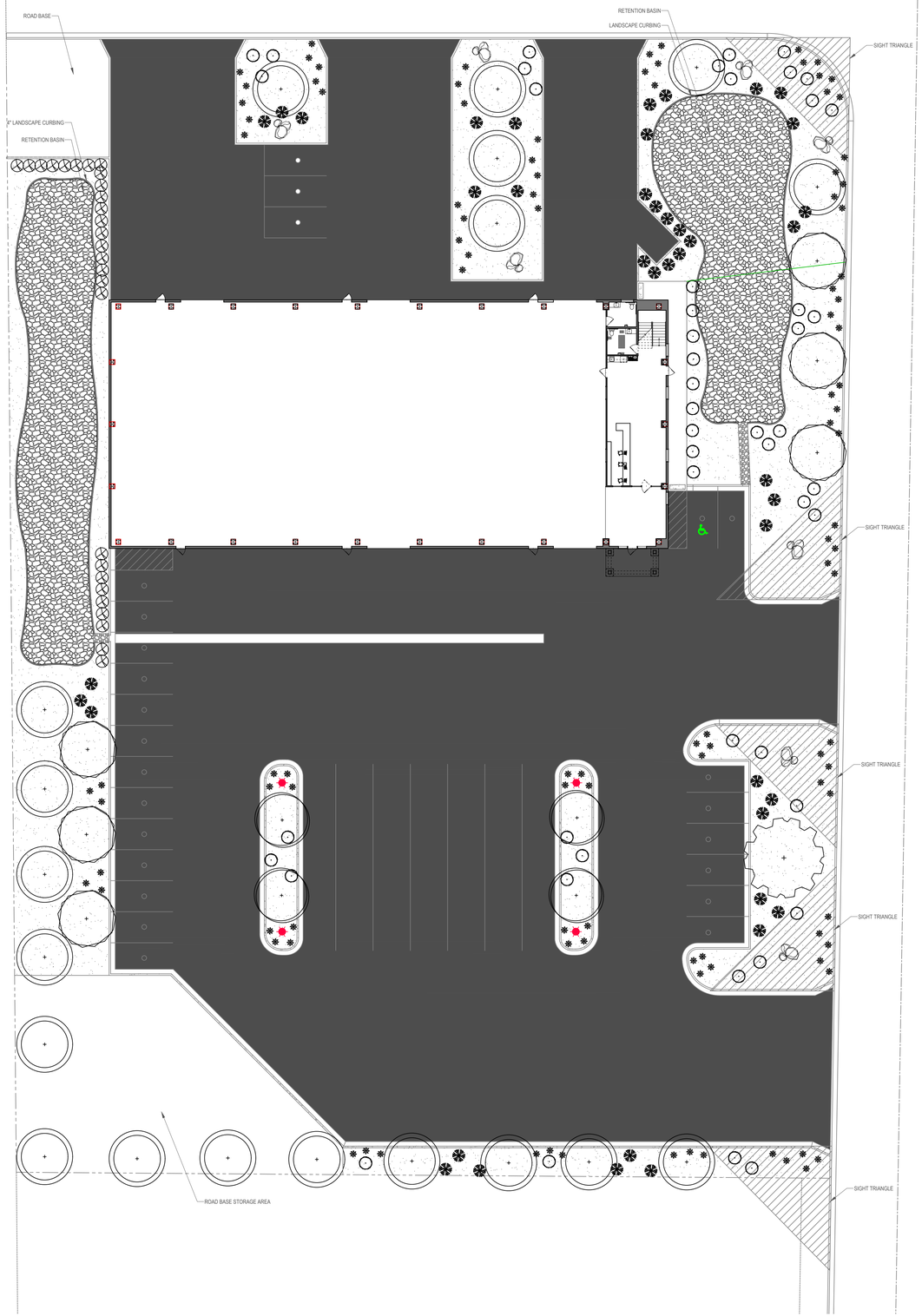
DETAIL SHEET

SANTAQUIN, UTAH

WASATCH STEEL

ATLAS ENGINEERING
CIVIL · STRUCTURAL · SURVEY
PHONE:801-655-0566
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

G:\USERS\CATHWEST\ATLAS ENGINEERING\COMMUNICATION SITE – DOCUMENTS\1.0. OPERATIONS\1.1 – CIVIL\2024\24–096 WASATCH STEEL\CADD\PRELIMINARY\DT–01 –DETAILS.DWG



PLANT LEGEND

COMMON NAME	BOTANICAL NAME	QTY	SIZE
JAPANESE ZELKOVA	*Zelkova serrata*	1	2" Cal.
ACCOLADE ELM	*Ulmus accolade*	4	2" Cal.
PACIFIC SUNSET MAPLE	*Acer warrenred*	6	2" Cal.
AUSTRIAN PINE	*Pinus nigra*	19	2" Cal.
ORNAMENTAL GRASS	-	48	5 Gal.
DECIDUOUS SHRUBS	-	42	5 Gal.
SCREENING SHRUBS	-	28	5 Gal.
PERENNIALS	-	109	1 Gal.

N
W E
S

LANDSCAPE BOULDERS

1-1/2" - 2" Crushed Tan Rock

4-6" Cobbles or Crushed Rock

LANDSCAPE PLAN

11X17 :20 SCALE — 24X36 :10 SCALE

Note: Quantities and square footages are provided as a courtesy. Contractor is responsible to verify and measure for accuracy.

SITE PLAN NOTES:

1. LANDSCAPING SHALL BE GRADED SUCH THAT ALL STORM WATER IS CONTAINED ON PROPERTY. LONG-TERM DRAINAGE CONTROL BY STANDARD RESIDENTIAL LANDSCAPING, INCLUDING GRASS, TREES, BUSHES AND AN AUTOMATIC SPRINKLER SYSTEM.
2. DRAIN AS MUCH OF THE ROOF AS POSSIBLE OUT TO THE STREET FRONTING THE HOME TO MINIMIZE THE AMOUNT TO BE HANDLED WITHIN OWN LOT BOUNDRIES.

IRRIGATION NOTES:

1. HEAD TO HEAD COVERAGE IN LAWN AREA USING RAIN BIRD (OR EQUIVALENT) SPRAY HEADS.
2. SPRAY HEAD LOCATION TO BE DETERMINED ON-SITE FOR OPTIMAL COVERAGE AND MINIMAL RUN-OFF.
3. DRIP IRRIGATION SYSTEM TO USE DRIP EMITTERS ACCORDING TO PLANT NEEDS (GENERALLY 1- 2 GAL/MINUTE EMITTER PER 5 GAL PLANT). TREES SHALL RECEIVE AT LEAST 3- 2 GAL/MINUTE EMITTERS OR EQUIVALENT COMBINATION OF EMITTERS.

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240

Scale 1" = 20'-0"

Architettura
Terry Judd Architect
801-310-7031
terrydjudd@gmail.com
Utah
Hawaii
California
Architettura Inc. is a Utah Corporation

May 01, 2024

PROJECT
xxxxxx
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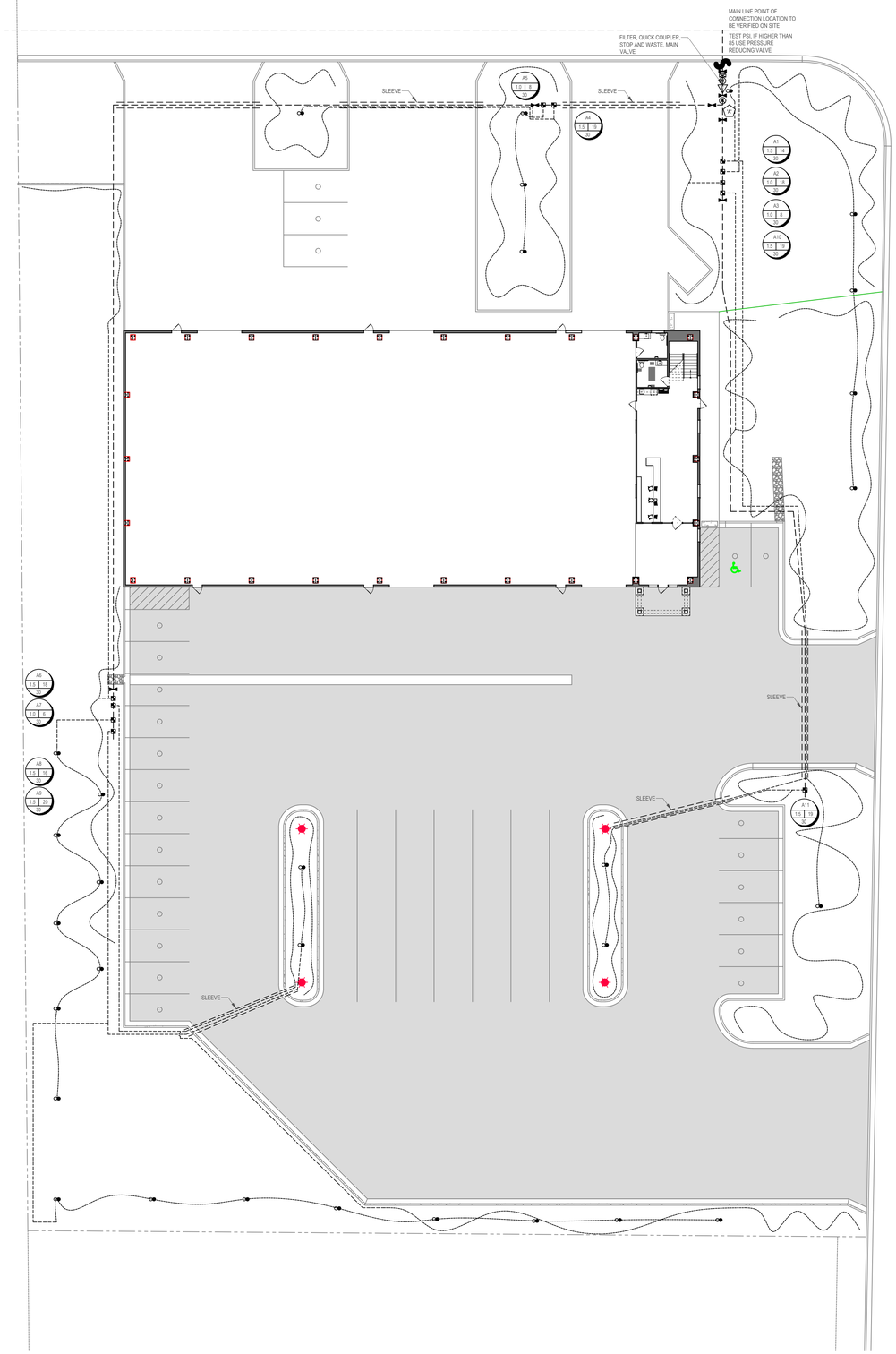
xxx xxxxx

Wasatch Steel

Job Number - xxxxxx

LA.1
Landscape Plan



IRRIGATION LEGEND

SYMBOL	MODEL NUMBER
	RAINBIRD RD04-5-PRS POP UP SPRAY 5 SERIES @ 30 PSI
	RAINBIRD RD04-5-PRS POP UP SPRAY 8 U-SERIES @ 30 PSI
	RAINBIRD RD04-5-PRS POP UP SPRAY 10 U-SERIES @ 30 PSI
	RAINBIRD RD04-5-PRS POP UP SPRAY 12 U-SERIES @ 30 PSI
	RAINBIRD RD04-5-PRS POP UP SPRAY 15 U-SERIES @ 30 PSI
	RAINBIRD RD04-5-PRS POP UP SPRAY 15 SST @ 30 PSI
	RAINBIRD RD04-5-PRS POP UP SPRAY 15 SST @ 30 PSI
	RAINBIRD 5000 SERIES MPR NOZZLES @ 45 PSI
	RAINBIRD R005 SERIES QR6-8.6 GMP, HH14-12.6 GPM, FIXS-24.3 GPM NOZZLES @ 55 PSI
	SECONDARY WATER POINT OF CONNECTION (SEE PLAN FOR SIZE)
W	CONTROLLER: RAINBIRD LX-IVMPRO WITH COMMUNICATION CARTRIDGE (4G/ETHERNET), CONTRACTOR TO ADJUST LOCATION WITH OWNER PRIOR TO CONSTRUCTION. ATTACH TO PEDESTAL LXMMPED
R	RAINBIRD WR2-RC WIRELESS RAIN SHUT OFF DEVICE
	ISOLATION BALL VALVE - LINE SIZED - INSTALL PER MANUFACTURERS SPEC.
	2" T SUPER ARMAD PLASTIC FIL TER W/ BRUSHAWAY ASSEMBLY - INSTALL PER MANUFACTURERS SPEC
W	RAINBIRD WR2-RC WIRELESS RAIN SHUT OFF DEVICE
	USF100 FLOW SENSOR - SIZE FLOW SENSOR ACCORDING TO MINIMUM GPM ZONE ON SYSTEM TO MAKE SURE THAT THE FLOW SENSOR IS CAPTURING FLOW. (USE SIZING CHARTS)
	QUICK COUPLER
	SMART VALVE IVMSOL INSTALL PER MANUFACTURERS SPEC
	LIGHTNING ARRESTER INSTALL PER MANUFACTURERS SPEC (EVERY 500 FT, OR 15 IVM DEVICES MAXIMUM)
	REMOTE CONTROL VALVE- RAINBIRD IVMSOL AUTOMATIC CONTROL VALVE (USE TAN LID IN PLANTER AREAS & GREEN LID IN GRASS AREAS) PLACE YELLOW TAGS ON ALL VALVES AND LABEL.
	DRIP CONTROL ZONE KIT- RAINBIRD XCZ100VM- FLOW INDICATING BASKET FILTER - (PER PLAN) - PRBR - COM MED FLOW (SIZE AS NOTED ON PLAN)
	MAINLINE: SCHEDULE 40 PVC WITH SCHEDULE 80 FITTINGS, 2" DIAMETER 24" MIN. COVER
	LATERAL LINE: SCHEDULE 40 PVC WITH SCH. 40 FITTINGS. PIPE SIZING- ¾", 1"- 1-1/2". SEE PIPE SIZING CHART BELOW FOR LARGER SIZES.
	DRIP RWS-S-B-1401 (ROOT WATERING SYSTEM PROVIDE 2 TO EACH TREE)
	DRIP LINE: RAINBIRD XFS-CV-09-18 OR EQUIVALENT
	CLASS 200 SLEEVE PER PLAN
	14 GUAGE SOLID COPPER SINGLE STRAND CONTROL WIRE. INSTALL PER MANUFACTURERS SPEC. PROVIDE 2 WIRE LOOP SYSTEM. ONLY WIRE FROM POC TO CONTROLLER IS DEPICTED ON PLANS. CONTRACTOR TO INSTALL WIRE IN CONDUIT FROM POC TO ALL VALVES. THE WIRE TO VALVES IS NOT SHOWN ON PLAN.

DRIP ZONE

TYPE	PART NUMBER	EMITTER FLOW	
XFS DRIPLINE	XFS-CV-09-18	XFS-CV-09-18	*PLACE NETFM TUBING UNDERNEATH MULCH AND FLUSH WITH TOP OF GRADE.
SHRUBS-DRIP LINE: RAINBIRD XFS-CV-09-18 OR EQUIVALENT			*EACH ZONE NOT TO EXCEED 20 GPM
*INSTALL POINT SOURCE EMITTERS FOR ESTABLISHMENT PERIOD. REMOVE AFTER ESTABLISHMENT PERIOD.			
TREES-DRIP LINE: RAINBIRD XFS-CV-09-18 OR EQUIVALENT			*EACH ZONE NOT TO EXCEED 20 GPM
*ONLY WATER PLANT SPECIFICALLY. DO NOT WATER ROCK AREA WITH NO PLANTS.			
*SEE DETAILS FOR SHRUB AND TREE DRIPLINE CONFIGURATION.			

IRRIGATION NOTES:

1. BEFORE WORK IS TO COMMENCE, BLUE STAKES/DIG LINE IS TO BE CALLED AND NOTIFIED. IF ANY DAMAGE TO UTILITIES OCCURS DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR IT AT THEIR EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS IN ACCORDANCE WITH CITY AND/OR COUNTY CODES AND COMPLY WITH SPECIFICATIONS AND DRAWINGS.
3. INVESTIGATE TO MAKE SURE THAT THE IRRIGATION SYSTEM IS, IN FACT, BEING CONNECTED TO A SECONDARY SYSTEM. IF IT IS NOT CONNECTED TO SECONDARY, CONTACT THE OWNER AND LANDSCAPE ARCHITECT TO COORDINATE A CULINARY SYSTEM AND REQUIRED COMPONENTS. A FUNCTIONING AMIAD FILTER IS TO BE USED AT THE POINT OF CONNECTION.
4. VERIFY THAT THE POINT OF CONNECTION IS IN THE CORRECT LOCATION BEFORE INSTALLATION. ALL CONNECTIONS ON THIS PROJECT ARE TO SECONDARY WATER AND SHOULD BE NOTED AS SUCH; THEREFORE, ALL PARTS MUST MEET WATER STANDARDS THAT PERTAIN TO SECONDARY WATER. USE PURPLE VALVE BOXES FOR SECONDARY WATER SYSTEMS.
5. ON OCCASION AND FOR GRAPHIC PURPOSES ONLY, THE IRRIGATION SYSTEM MIGHT BE SHOWN IN HARDSCAPE AREAS. THIS IRRIGATION IS TO BE PLACED IN LANDSCAPED AREAS ON THE PROPERTY SITE.
6. CONTRACTOR SHALL USE ONLY COMMERCIAL GRADE IRRIGATION PRODUCTS. THIS INCLUDES PIPE TO BE SCHEDULE 40 PVC OR BETTER. NO POLY PIPE IS TO BE USED. FITTINGS UP TO 1-1/2" MUST BE SCHEDULE 80 OR BETTER. CONTRACTOR IS RESPONSIBLE FOR ENSURING ACCURATE COUNTS AND QUANTITIES OF ALL IRRIGATION MATERIALS FOR BIDDING AND INSTALLATION.
7. MAIN LINES SHALL BE A MINIMUM OF 24" DEEP AND LATERAL LINES A MINIMUM OF 12" DEEP. NO ROCK GREATER THAN 2" DIAMETER SHALL BE ALLOWED IN TRENCHES. TRENCHING BACKFILL MATERIAL SHALL BE COMPACTED TO PROPER FINISHED GRADE.
8. NO IRRIGATION MAIN LINE MAY BE LOCATED WITHIN 5 FEET OF ANY STRUCTURE.
9. TO AVOID PIPE DAMAGE, ADJUST LOCATION OF PIPE TO NOT BE DIRECTLY UNDER PLANT MATERIALS. VALVE BOXES ARE PREFERRED TO BE IN PLANTER BEDS INSTEAD OF THE LAWN. SYSTEM IS TO BE WINTERIZED IN THE LATE FALL.
10. PLAN INDICATES 100% OR BETTER HEAD TO HEAD COVERAGE. SHOULD CONTRACTOR FIND DISCREPANCIES DUE TO NECESSARY FIELD ADJUSTMENTS, CONTACT LANDSCAPE ARCHITECT FOR IRRIGATION CORRECTION.
11. DRIP IRRIGATION TO BE INSTALLED PER DETAILS. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS. TUBING SHOULD REST TOWARD OUTER EDGE OF ROOTBALL AND NOT AGAINST TRUNK OF PLANT.
12. A QUICK COUPLER SHALL BE INSTALLED AT POINT OF CONNECTION TO ALLOW BLOW OUT OF SYSTEM BY AIR COMPRESSOR AT END OF EACH SEASON.
13. INSTALL SLEEVES FOR ALL PIPES AND WIRE CONDUIT THAT ARE PLACED UNDER PAVEMENT AND SIDEWALKS. SLEEVES SHALL BE 2 SIZES LARGER THAN PIPE BEING PLACED INTERNALLY. WIRE CONDUIT SHALL BE INSTALLED IN CLASS 200 PIPE. AT ANY DIRECTIONAL CHANGE THAT OCCURS, A JUNCTION BOX IS TO BE PLACED.
14. CONDUITS CANNOT BE SHARED BY WATER AND ELECTRICAL LINES. ALL WIRE TO BE PUT IN PVC CONDUIT. ALL WIRE CONNECTIONS TO BE PLACED IN A VALVE BOX. ALL WIRE CONNECTIONS TO USE WATERPROOF WIRE CONNECTORS WITH AT LEAST 7' OF EXTRA WIRE. PROVIDE PLENTY OF EXTRA WIRE AT EVERY DIRECTIONAL CHANGE. INSULATED 14 GAUGE COPPER WIRE TO BE USED FOR ALL CONTROL WIRES AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
15. CONTRACTOR TO INSTALL LIGHTNING ARRESTOR AND GROUNDING RODS ON SITE PER MANUFACTURERS RECOMMENTIONS. SEE DETAILS.
16. CONTRACTOR TO SEPARATE SYSTEM (CONTROLLER, VALVES, AND DIFFERENT COLORED WIRE) FROM CITY MAINTAINED PROPERTY AND HOA/OWNER MAINTAINED PROPERTY.
17. DUCT TAPE ALL SLEEVES TO PREVENT SOIL OR OTHER DEBRIS ENTERING PIPE. IDENTIFY ALL SLEEVES BY WOOD ON PVC STAKES AND SPRAY PAINT WITH MARKING PAINT. REMOVE STAKES ONCE IRRIGATION SYSTEM IS COMPLETE.
18. TO PREVENT EROSION AND LOW POINT DRAINAGE CONTRACTOR SHALL INSTALL CHECK VALVES.
19. LOCATE SPRAY HEADS NO CLOSER THAN 6" FROM WALLS, FENCES OR BUILDINGS AND 2' AWAY FROM WALKS, PATHS OR CURBS.
20. PRESSURE TEST MAINLINE FOR LEAKS PRIOR TO BACKFILLING. CONTACT LANDSCAPE ARCHITECT/OWNER AT THIS TIME FOR COMPLIANCE.
21. CONTRACTOR TO CONSULT WITH OWNER ON EXACT LOCATION OF CONTROLLER. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR AND OWNER FOR THE POWER SUPPLY. INSTALL ALL PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL INSTALL A RAIN SENSOR WITH THE CONTROLLER UNLESS OTHERWISE DIRECTED BY OWNER OR LANDSCAPE ARCHITECT.
22. LATERAL LINES SHALL BE NO SMALLER THAN 2". LANDSCAPE CONTRACTOR TO ENSURE THE FOLLOWING PIPE SIZES DO NOT EXCEED THE SUGGESTED GPM LISTED BELOW.

I	¾-	6 GPM
II	1"	12 GPM
III	1-1/2"	30 GPM
IV	2"	53 GPM
V	2-1/2"	75 GPM
VI	3"	110 GPM
VII	4"	180 GPM

VALVE ID TAG:

NOTE: VALVE ID TAGS ARE LOCATED NEAR VALVES IN THE ORDER THE VALVES APPEAR ON THE DRAWING

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240

Scale 1" = 20'-0"

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Utah
Hawaii
California

Architettura Inc. is a Utah Corporation

May 01, 2024

PROJECT
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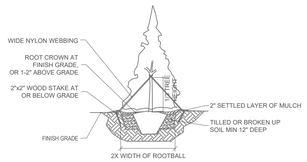
Wasatch Steel

Job Number - xxxxxx

LA.1

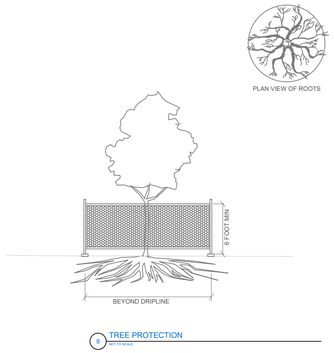
Irrigation Plan



7 EVERGREEN TREE PLANTING
NOT TO SCALE

NOTES: EVERGREEN TREE PLANTING

1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
9. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
10. APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
11. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
12. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.

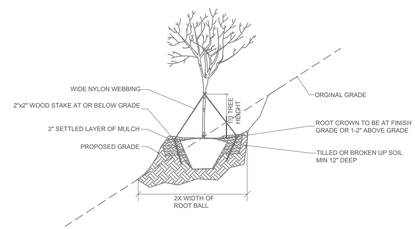


6 TREE PROTECTION
NOT TO SCALE

NOTES: TREE PROTECTION

1. REFER TO STANDARDS IN GENERAL SPECIFICATIONS FOR TREE PROTECTION.
2. DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR 1/2 HEIGHT OF TREE, WHICHEVER IS GREATER. FOR 2-INCH CALIPER TREES OR SMALLER, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.
3. TEMPORARY FENCING (6 FT HIGH) SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
4. DEAD TREES, SCRUB, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. THERE WILL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF TREES TO BE PRESERVED.
5. PLACE 6 INCHES OF BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.
6. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1 INCH IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHOULD BE TEMPORARILY COVERED WITH DAMP BURLAP AND COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE TO PREVENT DRYING.
7. FOR PRUNING GUIDELINES, SEE ANSI #300.
8. NO EQUIPMENT OR MACHINERY SHALL BE USED WITHIN THE PROTECTION FENCE. WORK WITHIN THE PROTECTION ZONE SHALL BE DONE MANUALLY.
9. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE IS ALLOWED WITHIN THE LIMIT OF THE FENCING.

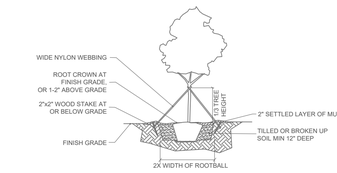
9 DRY CREEK BED/ROCKS
NOT TO SCALE



4 TREE PLANTING (SLOPE)
NOT TO SCALE

NOTES: TYPICAL TREE PLANTING ON SLOPE

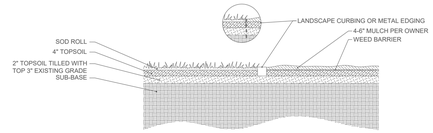
1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
9. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
10. APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
11. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
12. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.



2 TREE PLANTING
NOT TO SCALE

NOTES: TREE PLANTING

1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
9. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
10. APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
11. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
12. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.

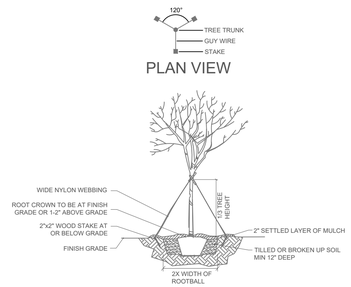


8 SOD/MULCH DETAIL
NOT TO SCALE

1 TYPICAL SHRUB PLANTING
NOT TO SCALE

NOTES: TYPICAL SHRUB PLANTING, INDIVIDUAL PLANTING HOLE

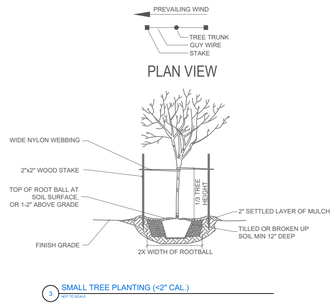
1. DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER.
2. SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL.
3. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2" ABOVE IF THE SOIL IS PRONE TO SETTLING.
4. IF CONTAINER GROWN PLANT, GENTLY SLIDE PLANT OUT OF CONTAINER. DISTURB THE ROOTS.
5. IF B&B PLANT, REMOVE BURLAP FROM AT LEAST THE TOP 12 INCHES OF THE ROOTBALL, WITHOUT DISTURBING THE ROOTBALL. REMOVE ALL CORD FROM THE TRUNK. REMOVE BURLAP AND WIRE BASKET (IF PRESENT) FROM THE ROOT BALL.
6. BACK FILL THE PLANTING HOLE WITH EXCAVATED NATIVE SOIL, BROKEN UP OR TILLED. WATER TO REMOVE AIR POCKETS. DO NOT ADD AMENDMENTS.
7. PLACE PINE STRAW OR BARK MULCH ON THE SURFACE TO A (SETTLED) DEPTH OF 1 TO 3 INCHES.



2 TREE PLANTING (>2" CAL.)
NOT TO SCALE

NOTES: TREE PLANTING (>2"CAL.)

1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
9. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
10. APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
11. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
12. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.



3 SMALL TREE PLANTING (<2" CAL.)
NOT TO SCALE

NOTES: SMALL TREE PLANTING (<2" CAL.)

1. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
2. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
3. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
4. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
5. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
6. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
7. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
8. USE TWO 2" X 2" WOOD STAKES 1/3 TREE HEIGHT IN LENGTH DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. STAKES SHOULD BE SPACED EQUALLY ACROSS FROM AND IN LINE WITH THE TRUNK PARALLEL TO THE PREVAILING WIND.
9. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
10. APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
11. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
12. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.

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Architettura Inc. is a Utah Corporation

May 01, 2024

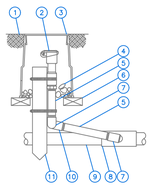
PROJECT
xxxxxx
xxxxxxx

xxxxx
xxxxxxxxx
xxx xxxxx

Wasatch Steel

Job Number - xxxxxx

LA.3
Landscape Details

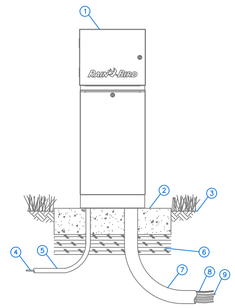


1. FINISH GRADE/TOP OF MULCH
2. QUICK-COUPLING VALVE: RAIN BIRD MODEL SNP
3. VALVE BOX WITH COVER: RAIN BIRD VB-6RND
4. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
5. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
6. BRICK (1 OF 2)
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE
10. PVC SCH 40 ELL
11. 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

NOTE:

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

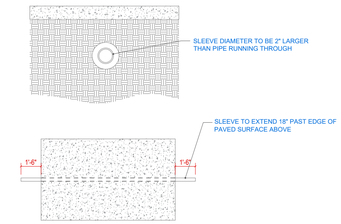
10 QUICK COUPLER DETAIL
NOT TO SCALE



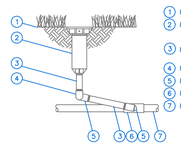
1. IRRIGATION CONTROLLER: RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE IN LXMM METAL CABINET AND LXMMPED METAL PEDESTAL. INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
2. CONCRETE PAD: 6-INCH MINIMUM THICKNESS
3. FINISH GRADE
4. POWER SUPPLY WIRE
5. 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
6. COMPACTED SUBGRADE
7. 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR STATION WIRES
8. FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR MASTER VALVE AND REMOTE CONTROL VALVE WIRES

NOTES:
1. ESP-LXMEF CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

11 ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE
NOT TO SCALE

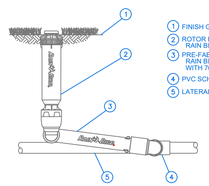


9 SLEEVE DETAIL
NOT TO SCALE



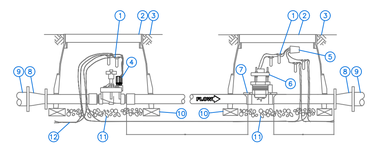
1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1802 WITH 1800 VPC WITH RAIN BIRD ROTARY NOZZLE
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

7 POP-UP SPRAY HEAD DETAIL
NOT TO SCALE



1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 8005
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-100-PRS WITH 70 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

8 ROTOR HEAD DETAIL
NOT TO SCALE

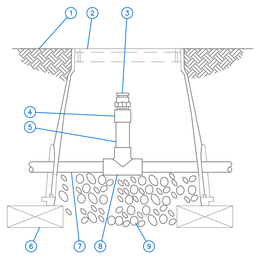


1. WATERPROOF SPLICE CONNECTION: RAIN BIRD WC20
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. FINISH GRADE/TOP OF MULCH
4. NORMALLY CLOSED MASTER VALVE: RAIN BIRD PEB OR PGA WITH IVM
5. RAIN BIRD IVM-SEN
6. FLOW SENSOR: RAIN BIRD FS SERIES
7. DOUBLE-STRAP SADDLE
8. CONCENTRIC REDUCER
9. PVC MAINLINE PIPE
10. BRICK (1 OF 4)
11. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
12. TWO-WIRE CABLE BETWEEN DEVICES

NOTE:
1. REFER TO RAIN BIRD TECHNICAL DATA FOR FLOW SENSOR INSTALLATION BASED ON PIPE SIZING PARAMETERS.

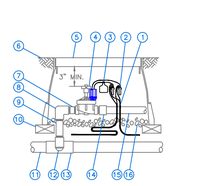
NOTE:
1. COIL AN ADDITIONAL 3-FEET OF TWO-WIRE CABLE IN VALVE BOX FOR EASY SERVICING.

6 MASTER VALVE AND FLOW SENSOR DETAIL
NOT TO SCALE



1. FINISH GRADE
2. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
3. ½" AIR RELIEF VALVE: RAIN BIRD ARV050 TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
4. PVC SCH 40 FEMALE ADAPTER
5. PVC SCH 80 RISER
6. BRICK (1 OF 2)
7. PVC HEADER PIPE
8. PVC SCH 40 TEE
9. 3" MINIMUM DEPTH OF ½" WASHED GRAVEL

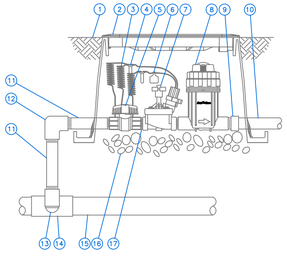
5 AIR RELIEF VALVE DETAIL
NOT TO SCALE



1. TWO-WIRE CABLE
2. WATERPROOF SPLICE CONNECTION RAIN BIRD WC20 (TWO REQUIRED)
3. ID TAG
4. REMOTE CONTROL VALVE: RAIN BIRD PEB/PESB/PESB-R WITH IVM-SOL
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 CLOSE NIPPLE
8. PVC SCH 80 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 80 ELL
13. PVC SCH 80 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

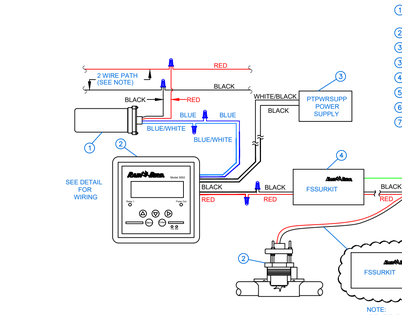
NOTE:
1. COIL AN ADDITIONAL 3-FEET OF TWO-WIRE CABLE IN VALVE BOX FOR EASY SERVICING.

8 ELECTRIC REMOTE-CONTROL VALVE, PEB OR PESB
NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

4 DRIP CONTROL ZONE KIT DETAIL
NOT TO SCALE



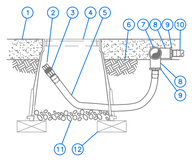
1. RAIN BIRD PULSE DECODER SET FOR A CHANNEL (1 THRU 28) DEC-PUL
2. RAIN BIRD FS SERIES FLOW SENSOR
3. RAIN BIRD MODEL PT3002 TRANSMITTER
3. RAIN BIRD PTPWRSUPP POWER SUPPLY
4. RAIN BIRD FSSURKIT SURGE PROTECTOR
5. TO RAIN BIRD PULSE DECODER
6. TO RAIN BIRD FSSURKIT
7. GREEN WIRE TO GROUND

NOTE:
USE RAIN BIRD MSP-1 FOR PROPER SURGE PROTECTION.

8. TO PULSE DECODER 4 IS + (BLUE/WHITE) 5 IS - (BLUE)
9. TO FLOW SENSOR 4 IS SENSOR IN (RED) 5 IS GROUND (BLACK)
10. TO POWER SUPPLY 1 IS + (WHITE/BLACK) 2 IS - (BLACK)

NOTE:
IF THE FLOW SENSOR IS LOCATED MORE THAN 150 FEET FROM THE FLOW TRANSMITTED, INCLUDE AN ADDITIONAL FSSURKIT AND GROUND ROD AT THE FLOW SENSOR LOCATION.

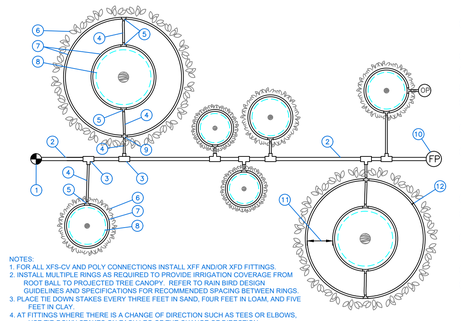
2 2-WIRE CONNECTION DETAIL
NOT TO SCALE



1. MULCH
2. FLUSH CAP FOR TWIST LOCK FITTINGS: POTABLE:RAIN BIRD TLF-CAF
3. TWIST LOCK FITTING TLF-MPT
4. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
5. 1/2" RAIN BIRD XF BLANK TUBING
6. FINISH GRADE
7. PVC EXHAUST HEADER
8. PVC SCH 40 TEE OR EL
9. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
10. SUB-SURFACE/ON-SURFACE DRIPLINE: RAIN BIRD XFS-CV SERIES DRIPLINE (TYPICAL) NON-POTABLE: XFS-CVP DRIPLINE
11. 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL
12. BRICK (1 OF 2)

NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

1 DRIP LINE FLUSH POINT DETAIL
NOT TO SCALE



1. RAIN BIRD CONTROL ZONE KIT (SIZED TO ACCOMODATE LATERAL FLOW DEMAND)
2. PVC DRIP MANIFOLD PIPE
3. PVC SCH 40 TEE OR EL (TYPICAL)
4. XF SERIES BLANK TUBING (TYPICAL)
5. BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
6. PROJECTED CANOPY LINE OF TREE OR SHRUB (TYPICAL)
7. ON-SURFACE DRIPLINE: RAIN BIRD XFS-CV SERIES DRIPLINE POTABLE: XFS-CV SERIES PLACE AS SHOWN (LENGTH AS REQUIRED, TYPICAL)
8. ROOT BALL (TYPICAL)
9. BARB X BARB INSERT CROSS: RAIN BIRD XFD-CROSS (TYPICAL)
10. DRIPLINE FLUSH POINT (SEE RAIN BIRD DETAIL "XFS-CV DRIPLINE FLUSH POINT")
11. SPACING PER SPECIFICATION
12. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3 BELOW)

NOTES:
1. FOR ALL XFS-CV AND POLY CONNECTIONS INSTALL XFF AND/OR XFD FITTINGS.
2. INSTALL MULTIPLE RINGS AS REQUIRED TO PROVIDE IRRIGATION COVERAGE FROM ROOT BALL TO PROJECTED TREE CANOPY. REFER TO RAIN BIRD DESIGN GUIDELINES AND SPECIFICATIONS FOR RECOMMENDED SPACING BETWEEN RINGS.
3. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

3 ON-SURFACE DRIPLINE TREE/SHRUB DETAIL
NOT TO SCALE

Architettura

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Hawaii
California

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May 01, 2024

PROJECT
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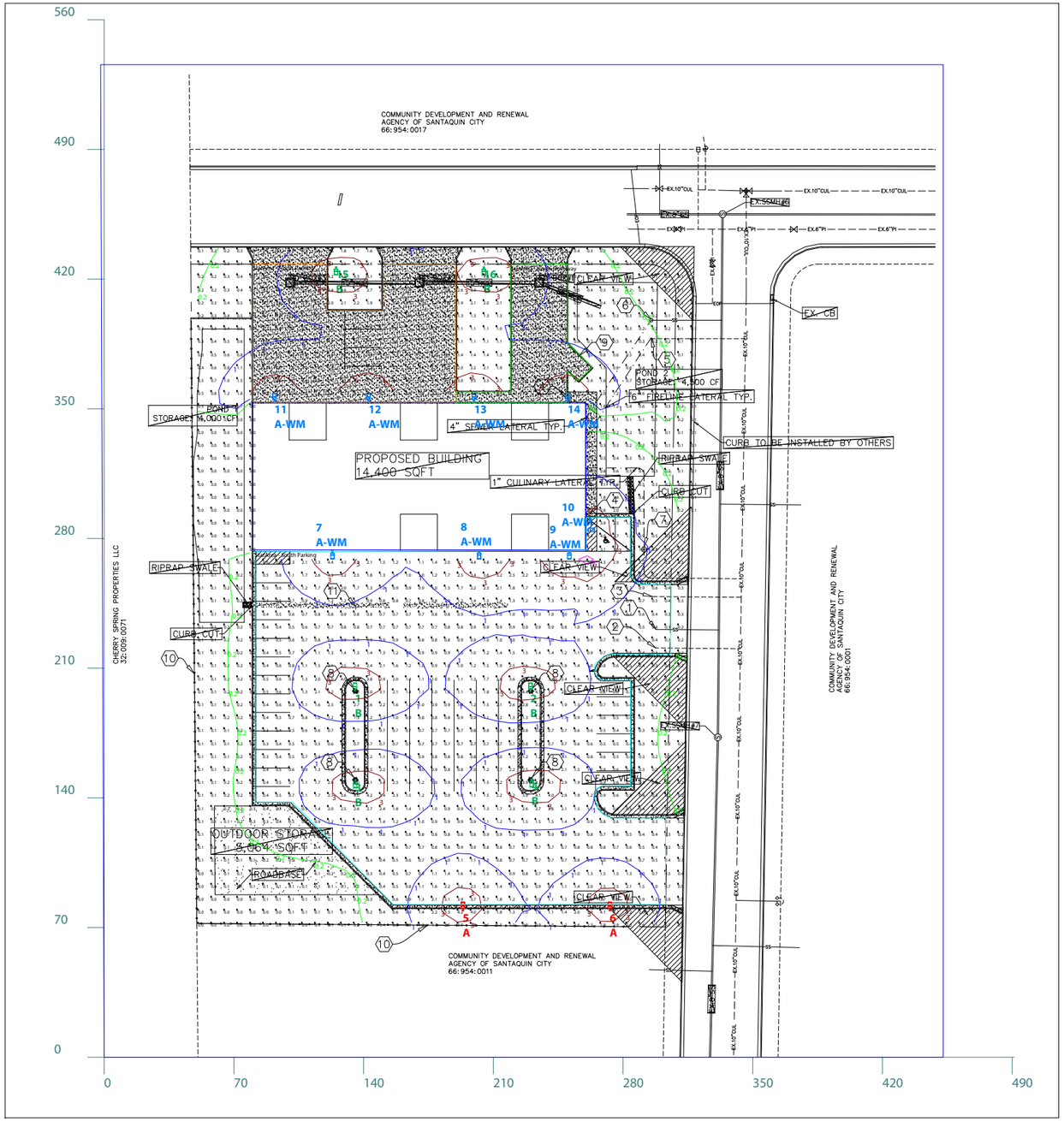
xxx xxxxx

Wasatch Steel

Job Number - xxxxxx

LA.4

Irrigation Details



Scale: 1 inch= 70 Ft.

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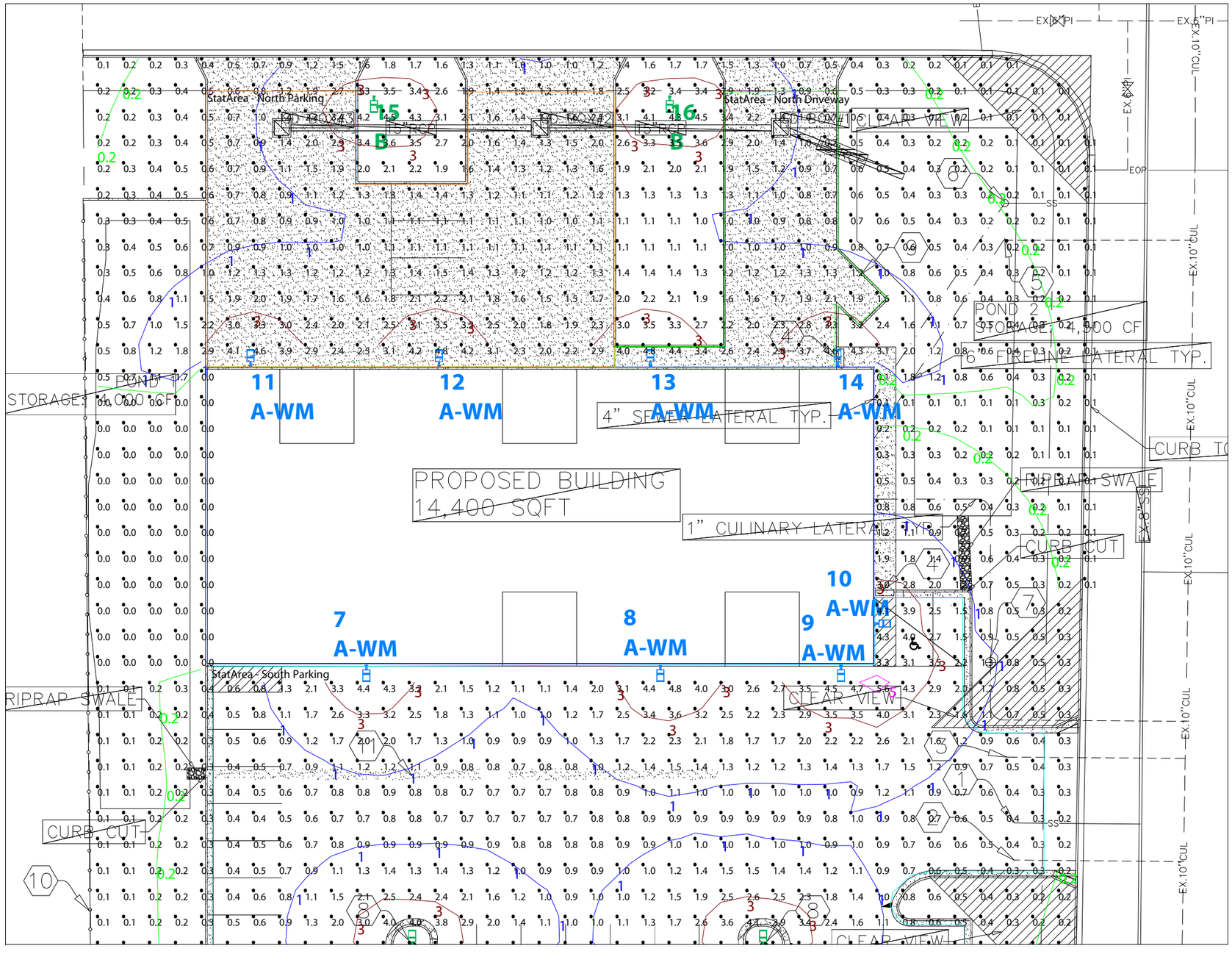
Prepared For:
Interwest Electrical Sales
4673 Cherry Street
Murray, UT 84123

Job Name:
Wasatch Steel
Santaquin, UT
Lighting Layout
Version B

Scale: as noted	PROJECT # : 232811
Date:6/20/2024	CASE # : 01372624
Filename: Wasatch Steel Layout 01372624 B.AGI	
Drawn By: A. Zuchelli	

Filename: C:\Users\anna.murphy\OneDrive - RAB Lighting\Desktop\Temp Folder\WASATCH STEEL\Working Files\AGI\Wasatch Steel Layout 01372624 B.AGI

PLOT TO 11"X17"PAGE



Top of Layout
Scale: 1 inch= 30 Ft.

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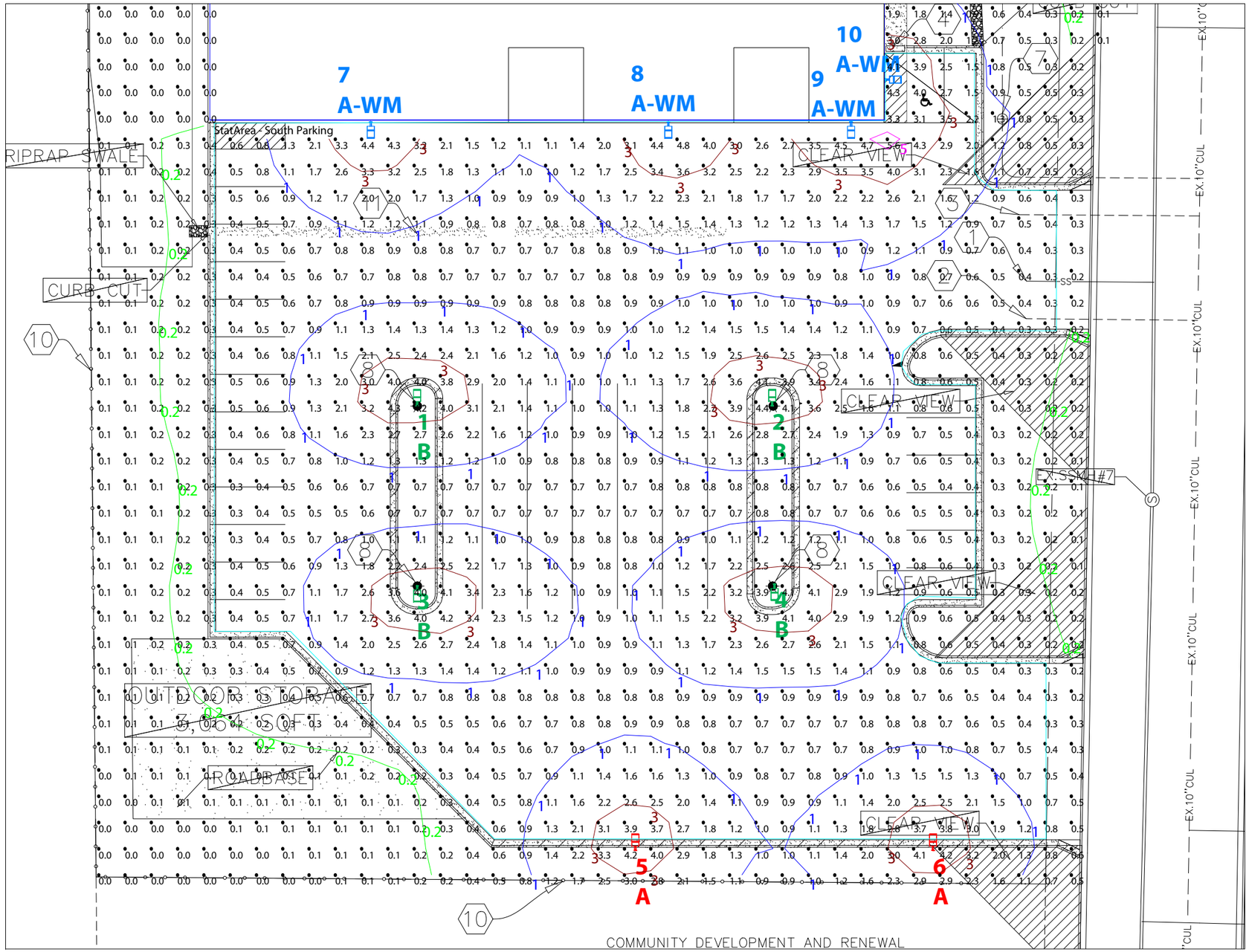
PLOT TO 11"X17"PAGE



Bottom of Layout
Scale: 1 inch= 30 Ft.

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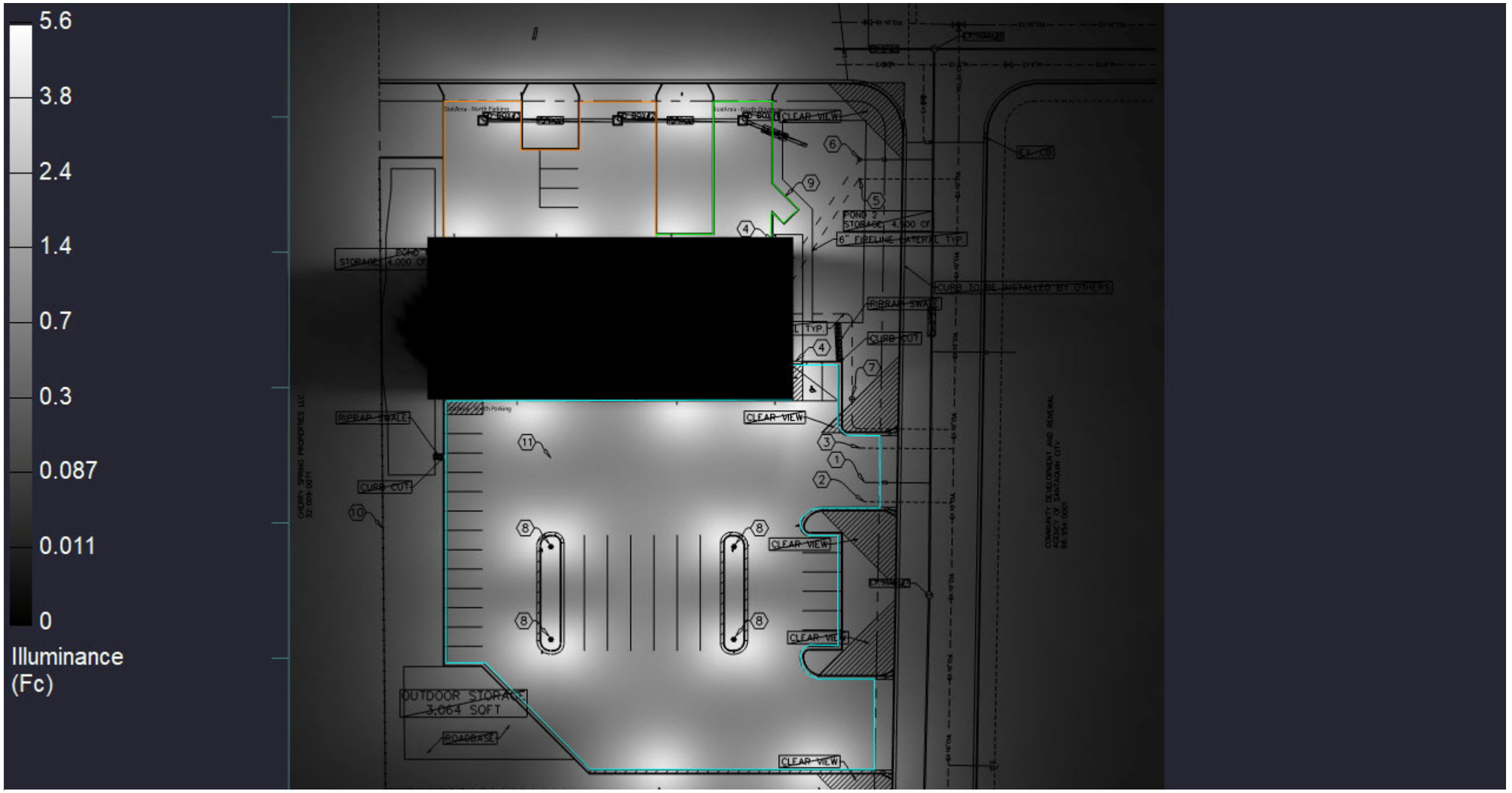
PLOT TO 11"X17"PAGE



Top View : Grayscale Rendering

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PLOT TO 11"X17"PAGE

Calculation Summary											
Label	**CalcType**	**Units**	**Avg**	**Max**	**Min**	**Avg/Min**	**Max/Min**	**Description**	**PtSpcLr**	**PtSpcTb**	**Meter Type**
CalcPts - Site	Illuminance	Fc	1.08	5.6	0.0	N.A.	N.A.	Readings taken at 0'-0" AFG	7	7	Horizontal
StatArea - North Driveway	Illuminance	Fc	1.55	4.6	0.7	2.21	6.57	Readings taken at 0'-0" AFG			
StatArea - North Parking	Illuminance	Fc	1.68	4.8	0.7	2.40	6.86	Readings taken at 0'-0" AFG			
StatArea - South Parking	Illuminance	Fc	1.36	5.6	0.3	4.53	18.67	Readings taken at 0'-0" AFG			

Luminaire Tag Summary	
Tag	**Qty**
A	2
A-WM	8
B	6

Luminaire Schedule											
Symbol	**Qty**	**Tag**	**Label**	**Arrangement**	**Lum. Lumens**	**Arr. Lum. Lumens**	**LLF**	**Description**	**Lum. Watts**	**Arr. Watts**	**Total Watts**	**BUG Rating**
	2	A	A17-4T70 - 50W, 5000K	Single	7811	7811	1.000	Type IV Field Adjustable Pole Mount	51.3531	51.353	102.706	B3-U0-G3
	8	A-WM	A17-4T70 - 50W, 5000K + A17-WM	Single	7811	7811	1.000	Type IV Field Adjustable Wall Mount with Accessory	51.3531	51.353	410.825	B3-U0-G3
	6	B	A17-3T70 - 50W, 5000K	Single	7971	7971	1.000	Type III Field Adjustable Pole Mount	51.2699	51.27	307.619	B2-U0-G2

Expanded Luminaire Location Summary						
LumNo	**Tag**	**X**	**Y**	**MTG HT**	**Orient**	**Tilt**
1	B	135.447	197.721	20	90	0
2	B	230.054	197.721	20	90	0
3	B	135.457	149.88	20	270	0
4	B	230.69	150.297	20	270	0
5	A	193.58	79.312	20	90	0
6	A	272.893	79.312	20	90	0
7	A-WM	123.122	273.416	20	270	0
8	A-WM	202.364	273.416	20	270	0
9	A-WM	251.047	273.416	20	270	0
10	A-WM	260.099	284.662	20	0	0
11	A-WM	91.902	354.029	20	90	0
12	A-WM	142.667	354.029	20	90	0
13	A-WM	199.66	354.029	20	90	0
14	A-WM	250.114	354.029	20	90	0
15	B	125.191	426.703	20	270	0
16	B	204.92	426.703	20	270	0
Total Quantity: 16						

NOTES:
* The light loss factor (LLF) is a product of many variables. RAB's standard is to use the initial 1.0 LLF in accordance with most municipal lighting ordinance light trespass requirements, unless otherwise noted.

* Illumination values shown (in footcandles) are the predicted results for planes of calculation either horizontal, vertical or inclined as designated in the calculation summary. Meter orientation is normal to the plane of calculation.

* The calculated results of this lighting simulation represent an anticipated prediction of system performance. Actual measured results may vary from the anticipated performance and are subject to means and methods which are beyond the control of RAB Lighting Inc.

* Mounting height determination is job site specific, our lighting simulations assume a mounting height (insertion point of the luminaire symbol) to be taken at the top of the symbol for ceiling mounted luminaires and at the bottom of the symbol for all other luminaire mounting configurations.

* RAB disclaims all responsibility for the suitability of existing or proposed poles and bases to support proposed fixtures. This is the owner's, installer's and/or end-user's responsibility based on the weight and effective projected area ("EPA") of the proposed fixtures and the owner's site and soil conditions, wind zone, and many other factors. A professional engineer licensed to practice in the state the site is located should be engaged to assist in this determination.

* The landscape material shown hereon is conceptual and is not intended to be an accurate representation of any particular plant, shrub, bush, or tree, as these materials are living objects, and subject to constant change. The conceptual objects shown are for illustrative purposes only. The actual illumination values measured in the field will vary.

* Photometric model elements such as buildings, rooms, plants, furnishings or any architectural details which impact the dispersion of light must be detailed by the customer documents for inclusion in the RAB Lighting Design. The owner/contractor/customer/end-user must provide accurate and complete construction drawings that reflect what will be the final construction RAB is not responsible for any inaccuracies caused by incomplete, inaccurate, or outdated information provided by the owner/contractor/customer/end-user.

* RAB Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending may apply. Please see www.rablighting.com/ip.

* The Lighting Analysis, EZLayout, Energy Analysis and/or Visual Simulation ("Lighting Design") provided by RAB Lighting Inc. ("RAB") represents an anticipated prediction of lighting system performance based upon design parameters and information supplied by others. These design parameters and information provided by others have not been field verified by RAB and therefore actual measured results may vary from the actual field conditions. RAB recommends that design parameters and other information be field verified to reduce variation.

* RAB does not warranty, either implied or stated, actual measured light levels or energy consumption levels as compared to those illustrated by the Lighting Design.

* RAB does not warranty, either implied or stated, nor represents the appropriateness, completeness or suitability of the Lighting Design as compliant with any applicable regulatory code requirements with the exception of those expressly stated on drawings created and submitted by RAB. The Lighting Design is issued, in whole or in part, as advisory documents for informational and convenience purposes only, is not intended for construction nor as a part of a project's construction documentation package and should not be relied upon for any purpose.

* Immediately prior to any party ordering RAB products used in the Lighting Design, the ordering party must verify that the lumen output of the fixtures being ordered (as shown on RAB's website) match the lumen output shown in the Lighting Design. Occasionally, Lighting Designs previously provided use fixtures that are then updated prior to an order and such updates could change the lumen output of the fixture. This in turn, could impact the installed lighting performance that differs from the Lighting Design.

RAB®
408 W 14th Street, New York, NY 10014
888 722-1000 • rablighting.com

Prepared For:
Interwest Electrical Sales
4673 Cherry Street
Murray, UT 84123

Job Name:
Wasatch Steel
Santaquin, UT
Lighting Layout
Version B

Scale: as noted	PROJECT # : 232811
Date:6/20/2024	CASE # : 01372624
Filename: Wasatch Steel Layout 01372624 B.AGI	
Drawn By: A. Zuchelli	

Filename: C:\Users\anna.murphy\OneDrive - RAB Lighting\Desktop\Temp Folder\WASATCH STEEL\Working Files\AGI\Wasatch Steel Layout 01372624 B.AGI

The Lighting Analysis, EZLayout, Energy Analysis and/or Visual Simulation ("Lighting Design") provided by RAB Lighting Inc. ("RAB") represents an anticipated prediction of lighting system performance based upon design parameters and information supplied by others. These design parameters and information provided by others have not been field verified by RAB and therefore actual measured results may vary from the actual field conditions. RAB recommends that design parameters and other information be field verified to reduce variation.

RAB does not warranty, either implied or stated, actual measured light levels or energy consumption levels as compared to those illustrated by the Lighting Design.

RAB does not warranty, either implied or stated, nor represents the appropriateness, completeness or suitability of the Lighting Design as compliant with any applicable regulatory code requirements with the exception of those expressly stated on drawings created and submitted by RAB. The Lighting Design is issued, in whole or in part, as advisory documents for informational and convenience purposes only, is not intended for construction nor as a part of a project's construction documentation package, and should not be relied upon for any purpose.

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PLOT TO 11"X17"PAGE

A17-4T70

Color: Bronze

Weight: 8.8 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.58A/0.49A/0.41A
208V	0.33A/0.28A/0.24A
240V	0.30A/0.26A/0.21A
277V	0.27A/0.23A/0.19A
Input Watts	50-73W

LED Info

Watts	70/60/50W
Color Temp	3000K/4000K/5000K
Color Accuracy	81-83 CRI
L70 Lifespan	100,000 Hours
Lumens	7,635-10,855 lm
Efficacy	140-159 lm/W

Technical Specifications

Compliance

UL Listed:
Suitable for wet locations

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

IP Rating:
Ingress protection rating of IP65 for dust and water

DLC Listed:
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.
DLC Product Code: S-ML9KBD (Outdoor Pole/Arm-Mounted Area and Roadway Luminaires)S-S0QCKY (Architectural Flood and Spot Luminaires)

Electrical

Driver:
70W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.58A, 208V: 0.33A, 240V: 0.30A, 277V: 0.27A
60W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.49A, 208V: 0.28A, 240V: 0.26A, 277V: 0.23A
50W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.41A, 208V: 0.24A, 240V: 0.21A, 277V: 0.19A

Dimming Driver:
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:
3.61% at 120V, 14.52% at 277V

Power Factor:
99.91% at 120V, 91.9% at 277V

Surge Protection:
6kV

Performance

Lifespan:
100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

IES Classification:
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:
The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:
Suitable for use in up to 40°C (104°F)

Lens:
Polycarbonate lens

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Vibration Rating:
3G vibration rating per ANSI C136.31

Technical Specifications (continued)

Effective Projected Area (Without Shield):
1 Fixture: 0.60 ft^2
2 Fixtures at 90°: 0.86 ft^2
2 Fixtures at 180°: 1.21 ft^2
3 Fixtures at 90°: 1.47 ft^2
4 Fixtures at 90°: 1.47 ft^2

Effective Projected Area (With Shield):
1 Fixture: 0.64 ft^2
2 Fixtures at 90°: 1.14 ft^2
2 Fixtures at 180°: 1.28 ft^2
3 Fixtures at 90°: 1.8 ft^2
4 Fixtures at 90°: 1.8 ft^2

Mounting:
Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:
Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:
RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Optical

BUG Rating:
B3 U0 G3

Other

5 Yr Limited Warranty:
The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Ordering Matrix

Family		Distribution	Wattage/Lumens	Mounting	Color Temp	Finish	Voltage	Options
A17	–	4T	70					
		4T = Type IV **5T =** Type V **3T =** Type III	**70 =** 70/60/50W **100 =** 100/80/60W **150 =** 150/120/100W **200 =** 200/180/160W **300 =** 300/240/200W **375 =** 375/300/240W **480 =** 480/400/320W	**Blank =** Universal Pole Mount **SF =** Slipfitter (Factory installed SF available in 150W) [1]	**Blank =** 3000K/4000K/5000K CCT Adjustable	**Blank =** Bronze	**Blank =** 120-277V, 0-10V Dimming **/480 =** 480V, 0-10V Dimming	**Blank =** No Option **/3PRS =** 3-pin Receptacle and Shorting Cap **/7PRS =** 7-pin Receptacle and Shorting Cap **/MVS =** Microwave Motion Sensor

[1] *1Slipfitter Mount available on 150W only*

Type II distribution available as special order.

Wall mount and roadway arm mount available as optional accessories.

A17-4T70+A17-WM

Color: Bronze

Weight: 8.8 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.58A/0.49A/0.41A
208V	0.33A/0.28A/0.24A
240V	0.30A/0.26A/0.21A
277V	0.27A/0.23A/0.19A
Input Watts	50-73W

LED Info

Watts	70/60/50W
Color Temp	3000K/4000K/5000K
Color Accuracy	81-83 CRI
L70 Lifespan	100,000 Hours
Lumens	7,635-10,855 lm
Efficacy	140-159 lm/W

Technical Specifications

Compliance

UL Listed:
Suitable for wet locations

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

IP Rating:
Ingress protection rating of IP65 for dust and water

DLC Listed:
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.
DLC Product Code: S-ML9KBD (Outdoor Pole/Arm-Mounted Area and Roadway Luminaires)S-S0QCKY (Architectural Flood and Spot Luminaires)

Electrical

Driver:
70W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.58A, 208V: 0.33A, 240V: 0.30A, 277V: 0.27A
60W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.49A, 208V: 0.28A, 240V: 0.26A, 277V: 0.23A
50W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.41A, 208V: 0.24A, 240V: 0.21A, 277V: 0.19A

Dimming Driver:
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:
3.61% at 120V, 14.52% at 277V

Power Factor:
99.91% at 120V, 91.9% at 277V

Surge Protection:
6kV

Performance

Lifespan:
100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

IES Classification:
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Cold Weather Starting:
The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:
Suitable for use in up to 40°C (104°F)

Lens:
Polycarbonate lens

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Vibration Rating:
3G vibration rating per ANSI C136.31

Technical Specifications (continued)

Effective Projected Area (Without Shield):
1 Fixture: 0.60 ft^2
2 Fixtures at 90°: 0.86 ft^2
2 Fixtures at 180°: 1.21 ft^2
3 Fixtures at 90°: 1.47 ft^2
4 Fixtures at 90°: 1.47 ft^2

Effective Projected Area (With Shield):
1 Fixture: 0.64 ft^2
2 Fixtures at 90°: 1.14 ft^2
2 Fixtures at 180°: 1.28 ft^2
3 Fixtures at 90°: 1.8 ft^2
4 Fixtures at 90°: 1.8 ft^2

Mounting:
Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:
Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:
RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Optical

BUG Rating:
B3 U0 G3

Other

5 Yr Limited Warranty:
The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

A17-4T70+A17-WM

RAB

Dimensions: A17-4T70

Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, limited warranty

Ordering Matrix

Family		Distribution	Wattage/Lumens	Mounting	Color Temp	Finish	Voltage	Options
A17	–	4T	70					
		4T = Type IV **5T =** Type V **3T =** Type III	**70 =** 70/60/50W **100 =** 100/80/60W **150 =** 150/120/100W **200 =** 200/180/160W **300 =** 300/240/200W **375 =** 375/300/240W **480 =** 480/400/320W	**Blank =** Universal Pole Mount **SF =** Slipfitter (Factory installed SF available in 150W)	**Blank =** 3000K/4000K/5000K CCT Adjustable	**Blank =** Bronze	**Blank =** 120-277V, 0-10V Dimming **/480 =** 480V, 0-10V Dimming	**Blank =** No Option **/3PRS =** 3-pin Receptacle and Shorting Cap **/7PRS =** 7-pin Receptacle and Shorting Cap **/MVS =** Microwave Motion Sensor

A17-3T70

Color: Bronze

Weight: 8.8 lbs

Project:	Type:
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.58A/0.49A/0.41A
208V	0.33A/0.28A/0.24A
240V	0.30A/0.26A/0.21A
277V	0.27A/0.23A/0.19A
Input Watts	49.4-73.7W

LED Info

Watts	70/60/50W
Color Temp	3000K/4000K/5000K
Color Accuracy	81-83 CRI
L70 Lifespan	100,000 Hours
Lumens	7,788-11,192 lm
Efficacy	143.4-165.4 lm/W

Technical Specifications

Compliance

UL Listed:
Suitable for wet locations

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

IP Rating:
Ingress protection rating of IP65 for dust and water

DLC Listed:
This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.
DLC Product Code: S-H0PXT3 (Outdoor Pole/Arm-Mounted Area and Roadway Luminaires)S-2LTK2Y (Architectural Flood and Spot Luminaires)

Electrical

Driver:
70W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.58A, 208V: 0.33A, 240V: 0.30A, 277V: 0.27A
60W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.49A, 208V: 0.28A, 240V: 0.26A, 277V: 0.23A
50W: Constant Current, Class 1, 120-277V, 50/60 Hz, 120V: 0.41A, 208V: 0.24A, 240V: 0.21A, 277V: 0.19A

Dimming Driver:
Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:
3.61% at 120V, 14.52% at 277V

Power Factor:
99.9% at 120V, 91.9% at 277V

Surge Protection:
6kV

Performance

Lifespan:
100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Construction

IES Classification:
The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

Cold Weather Starting:
The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:
Suitable for use in up to 40°C (104°F)

Lens:
Polycarbonate lens

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Vibration Rating:
3G vibration rating per ANSI C136.31

Effective Projected Area (Without Shield):
1 Fixture: 0.60 ft^2
2 Fixtures at 90°: 0.86 ft^2
2 Fixtures at 180°: 1.21 ft^2
3 Fixtures at 90°: 1.47 ft^2
4 Fixtures at 90°: 1.47 ft^2

Technical Specifications (continued)

Effective Projected Area (With Shield):
1 Fixture: 0.64 ft^2
2 Fixtures at 90°: 1.14 ft^2
2 Fixtures at 180°: 1.28 ft^2
3 Fixtures at 90°: 1.8 ft^2
4 Fixtures at 90°: 1.8 ft^2

Mounting:
Universal mounting arm compatible for hole spacing patterns from 1" to 5 1/2" center to center. Round Pole Adaptor plate included as a standard. Easy slide and lock to mount fixture with ease. Round pole diameter must be >4" to mount fixtures at 90° orientation.

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

LED Characteristics

LEDs:
Long-life, high-efficiency, surface-mount LEDs

Color Uniformity:
RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Optical

BUG Rating:
B3 U0 G3

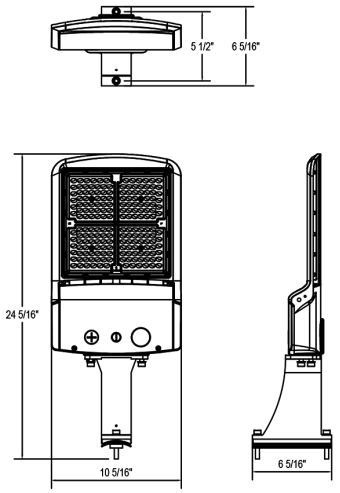
Other

5 Yr Limited Warranty:
The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

A17-3T70

Dimensions



Features

- 0-10V Dimming, standard
- 100,000-hour LED lifespan
- 5-Year, limited warranty

Ordering Matrix

Family		Distribution	Wattage/Lumens	Mounting	Color Temp	Finish	Voltage	Options
A17	–	3T	70					
		4T = Type IV **5T =** Type V **3T =** Type III	**70 =** 70/60/50W **100 =** 100/80/60W **150 =** 150/120/100W **200 =** 200/180/160W **300 =** 300/240/200W **375 =** 375/300/240W **480 =** 480/400/320W	**Blank =** Universal Pole Mount **SF =** Slipfitter (Factory installed SF available in 150W) [1]	**Blank =** 3000K/4000K/5000K CCT Adjustable	**Blank =** Bronze	**Blank =** 120-277V, 0-10V Dimming **/480 =** 480V, 0-10V Dimming	**Blank =** No Option **/3PRS =** 3-pin Receptacle and Shorting Cap **/7PRS =** 7-pin Receptacle and Shorting Cap **/MVS =** Microwave Motion Sensor

[1] *1Slipfitter Mount available on 150W only*

Type II distribution available as special order.

Wall mount and roadway arm mount available as optional accessories.

PS4-11-20D2

Square steel poles drilled for 2 Area Lights at 180°. Designed for ground mounting. Poles are stocked nationwide for quick shipment. Protective packaging ensures poles arrive at the job site good as new.

Color: Bronze

Weight: 136.7 lbs

Project:	Type:
Prepared By:	**Date:**

Technical Specifications

Compliance

CSA Listed:
Suitable for wet locations

Construction

Shaft:
46,000 p.s.i. minimum yield.

Hand Holes:
Reinforced with grounding lug and removable cover

Base Plates:
Slotted base plates 36,000 p.s.i.

Shipping Protection:
All poles are shipped in individual corrugated cartons to prevent finish damage

Color:
Bronze powder coating

Height:
20 ft

Weight:
137 lbs

Gauge:
11

Wall Thickness:
1/8"

Shaft Size:
4"

Hand Hole Dimensions:
3" x 5"

Bolt Circle:
8 1/2"

Base Dimension:
8"

Anchor Bolt:
Galvanized anchor bolts and galvanized hardware and anchor bolt template. All bolts have a 3" hook.

Anchor Bolt Templates:
WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available online.

Pre-Shipped Anchor Bolts:
Bolts can be pre-shipped upon request for additional freight charge

Max EPA's/Max Weights:
70MPH 10.7 ft/360 lb.
80MPH 7.0 ft/350 lb.
90MPH 4.3 ft/350 lb.
100MPH 2.5 ft/350 lb.
110MPH 1.1 ft/350 lb.
120MPH 0.1 ft/340lb

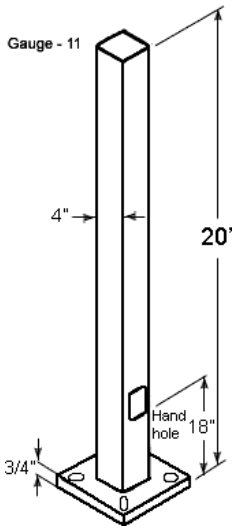
Other

Terms of Sale:
Pole Terms of Sale is available online.

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

PS4-11-20D2

Dimensions



Features

- Designed for ground mounting
- Heavy duty TGIC polyester coating
- Reinforced hand holes with grounding lug and removable cover for easy wiring access
- Pole caps, base covers & bolts are sold separately
- Custom manufactured for each application