# SOUTH JORDAN CITY PLANNING COMMISSION REPORT

**Issue:** SILVERSTONE AUTOMATION

**SITE PLAN** 

**Address:** 10096 South Jordan Gateway

**File No: PLSPR202200232** 

**Applicant:** Joseph Milillo, MHTN Architects

Submitted by: Damir Drozdek, Planner III

Shane Greenwood, Supervising Senior Engineer

**Staff Recommendation (Motion Ready):** I move that the Planning Commission **approve** application PLSPR202200232 to allow for construction of a new commercial building on property located at 10096 South Jordan Gateway.

# **STANDARD OF REVIEW:**

All proposed commercial, office, industrial, multi-family dwelling or institutional developments and alterations to existing developments shall meet the site plan review requirements outlined in chapter 16.24 and the requirements of the individual zone in which a development is proposed. All provisions of titles 16 & 17 of the City Code, and other city requirements, shall be met in preparing site plan applications and in designing and constructing the development. The Planning Commission shall receive public comment regarding the site plan and shall approve, approve with conditions or deny the site plan.

# **BACKGROUND:**

The proposed project is located at 10096 South Jordan Gateway. The building will be used to design, test and build custom automation machines that will primarily cater to medical manufacturing companies.

The project was originally approved on August 25, 2020. As per City Code, the approval remains in effect for one year unless building construction has begun. An extension of the approval was granted on August 16<sup>th</sup> of 2021 allowing the applicant another year to start construction. Due to Covid and other related issues, construction on the building has not taken place for two years since the project approval.

Since the extension is now expired, the applicant must apply and obtain a site plan approval from the Planning Commission once again. Once approved, the applicant will be able to apply and obtain a building permit to begin construction.

Meeting Date: 01/24/2023

# **STAFF FINDINGS, CONCLUSIONS & RECOMMENDATION:**

# **Findings:**

- The original application was approved August 25, 2020 and the approval has since expired.
- The only changes made to the plans pertain to building elevations and the landscape plans.

# **Conclusion:**

• The original approval as well as the proposed changes meet or exceed the City Code requirements.

# **Recommendation:**

• Based on the Findings and Conclusions listed above, Staff recommends that the Planning Commission take comments at the public hearing and **approve** the Application, unless, during the hearing, facts are presented that contradict these findings or new facts are presented, either of which would warrant further investigation by Staff.

# **ALTERNATIVES:**

- Approve an amended Application.
- Deny the Application.
- Schedule the Application for a decision at some future date.

# **SUPPORT MATERIALS:**

- Letter from the Applicant
- New Building Elevations
- City Engineer Approved Drawings New
- Original Staff Report
- PC Meeting Minutes
- Extension Letter

Damir Drozdek, AICP Planner III, Planning Department

# City of South Jordon Planning Commission

Dear Commissioners,

After a couple of tough COVID years, Holdings10 would like to revive the build of the Silverstone Building at 10096 South Jordan Gateway. You're aware that a number of factors made construction difficult during those years.

For Holdings10, the factors that stopped the process included:

- Scarcity of building materials which resulted in wildly increasing and unpredictable costs and unknown delivery times. For example, trusses were out a year which meant that the construction would be partially done and then the process idled.
- The appraisal did not align with the quickly escalating construction costs. Building sale prices prior to COVID were significantly less than the present-day costs to construct that same building. This negatively affect the loan process.
- Unknown construction labor pool during the pandemic. Possible labor interruptions seemed likely to delay the project completion.

Due to the risks associated with the above factors, Holdings10 chose to wait for the pandemic and construction climate to settle.

Silverstone's business has been steady and still needs the additional space provided by the new building. The original reasons to build the building are still clearly present for Silverstone.

Regards, Leonard Di Sera and Corey Bodily Holdings10



FINISH GRADE - SLOPE AWAY FROM BUILDING

(1)



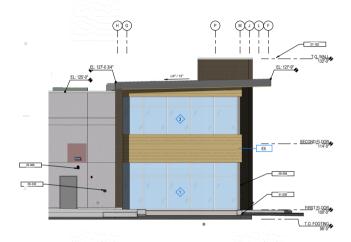
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08-330

LEGEND - EXTERIOR ELEVATION

EXTERIOR ELEVATIONS GENERAL NOTES	<b>∨</b> ⊣	
Exterior Finishes: Provide exterior finishes, continuous until a transition is indicated. Pelements, and on surfaces not shown in elevation such as back sides of piers, columns that may not be visible in the elevation view.		MHTN
Lighting: Coordinate wall and soffit mounted lighting locations with Electrical drawings. Architect prior to rough-in.	and with the	MHTN Architects,



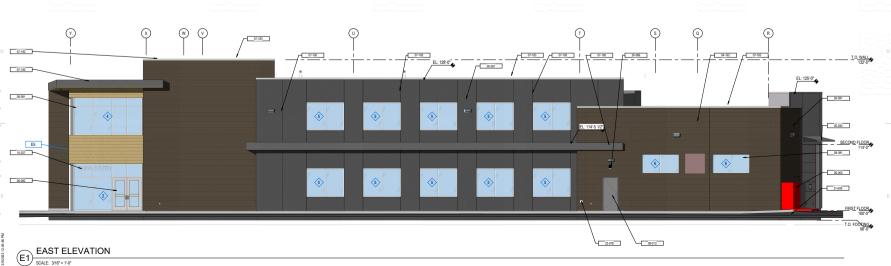


SOUTH ELEVATION ANGLED

C1 SCALE: 3/16" = 1'-0"



(A)



SILVERSTONE AUTOMATION

SECOND FLOOR

10096 S. JORDAN GATEWAY SOUTH JORDAN CITY, UT 84095 HOLDINGS 10 LLC



CONSTRUCTION DOCUMENTS

EXTERIOR **ELEVATIONS** 

A200

BRICK EXPANSION JOINT AT CORNERS
18 GA. GALVANIZED STEEL CANOPY, BLUE GIANT OR
APPROVED EQUAL
EIFS REVEAL, SEE DETAILS FOR MORE INFORMATION 04-162 05-034

07-100 07-183 07-222 08-013 EIFS REVEAL, SEE DET AILS FOR MORE INFORMATION PEAKED COPING OVER BLOCK WALL DOWNSPOUT SQUARE DRAIN, COORDINATE WITH CIVIL HOLLOW METAL DOORS AND FRAMES INSULATED OVERHEAD DOOR - SEE DOOR SCHEDULE ROOF ACCESS HATCH, 48 X 48 IMINIMUM 08-079

ROOF ACCESS HATCH, 48 X 48 MINIMUM
ELECTRICAL EQUIPMENT. COORDINATE SIZE OF
ELECTRICAL ROOM WI ELECTRICAL EQUIPMENT &
REQUIRED OLEAPANICES. SEE ELECTRICAL DRAWING FOR
ADDITIONAL INFORMATION.
EXTERIOR LIGHTING 26-086 26-091 31-009 33-017

EXTERIOR WALL SCONCE LIGHTING
FINISH GRADE - SLOPE AWAY FROM BUILDING
GAS METERING - SEE CIVIL

LEGEND - EXTERIOR ELEVATION

EXTERIOR BRICK, COAL-KING SIZE ALUMINIUM COMPOSITE WOOD SIDING

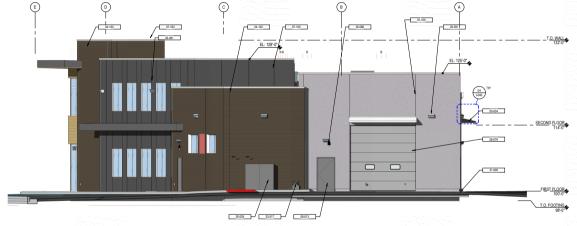
FIES SIDING LIGHT

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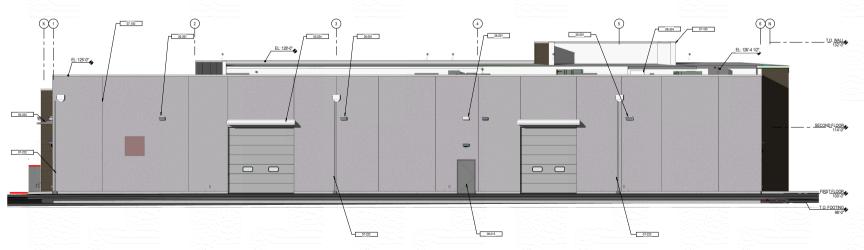
# EXTERIOR ELEVATIONS GENERAL NOTES

Lighting: Coordinate wall and soffit mounted lighting locations with Electrical drawings and with the Architect prior to rough-in.





C2 NOR I m E NORTH ELEVATION



WEST ELEVATION

SILVERSTONE AUTOMATION

10096 S. JORDAN GATEWAY SOUTH JORDAN CITY, UT 84095 HOLDINGS 10 LLC



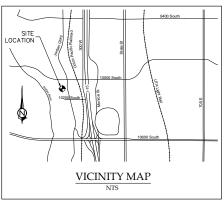
CONSTRUCTION DOCUMENTS

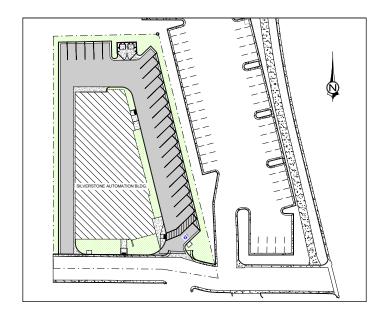
EXTERIOR **ELEVATIONS** 

A201

# SILVERSTONE AUTOMATION BUILDING

LOCATED IN SW 1/4 OF SECTION 12, TOWNSHIP 3 SOUTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN 10096 S 460 W, SOUTH JORDAN, UTAH





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DT1	6	DETAILS						
DT2	7	DETAILS						
DT3	8	DETAILS						

COVER SHEET

SILVERSTONE AUTOMATION BUILDING SOUTH JORDAN, UT

# **OWNER**

SILVERSTONE AUTOMATION 14621 S. 800 W., Suite 200 BLUFFDALE, UTAH 84065 PHONE: 801-619-0803

# **ARCHITECT**

MHTN ARCHITECTS 420 E. SOUTH TEMPLE #100 SALT LAKE CITY, UTAH 84111 PHONE: 801-595-6700

# **ENGINEER**



# City Engineer City of South Jordan

Approved 01/10/2023 City Engineer







# PROJECT CONTACTS

# LOCAL GOVERNMENT

SOUTH JORDAN CITY PLANNING & ZONING 1600 W. TOWNE CENTER DR. SOUTH IORDAN, UTAH 84095 PHONE: 801-254-3742

# SEWER

SOUTH VALLEY SEWER DISTRICT 1253 W. JORDAN BASIN LN. BLUFFDALE, UTAH 84065 PHONE: 801-571-1166

# WATER

SOUTH JORDAN CITY PUBLIC WORKS 10996 S. REDWOOD RD. SOUTH JORDAN, UT 84095 PHONE: 801-253-5230

# FIRE DEPARTMENT

SOUTH JORDAN CITY FIRE DEPARTMENT 1600 W. TOWNE CENTER DR. SOUTH JORDAN, UTAH 84095 PHONE: 801-254-3742

#### SOUTH JORDAN CITY GENERAL NOTES

- ALL WORK DONE OR IMPROVEMENTS INSTALLED WITHIN SOUTH JORDAN CITY INCLUDING BUT NOT LIMITED TO EXCAVATION, CONSTRUCTION, ROADWORK AND UTILITIES SHALL CONFORM TO THE SOUTH JORDAN CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS, CITY MUNICIPAL CODE, THE LATEST EDITION OF THE APWA MANUAL, OF STANDARDS SPECIFICATIONS AND MANUAL OF STANDARD PLANS, THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ANY STATE OR FEDERAL REGULATIONS AND PERMIT REQUIREMENTS OF VARIOUS GOVERNING BODIES. THE CONTRACTOR IS RESPONSIBLE TO HAVE IFICATIONS AND TO KNOW AND CONFORM TO THE APPROPRIATE CODES, REGULATIONS, DRAWINGS
- PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND. THE CONTRACTOR SHALL AT HIS OWN EXPENSE LOCATE ALL PLINES INIS INCLUDIES ALL SERVICE INTERPRISE OF ANY NAIL THE COMMODITY STAND LIFE AND WINE APPENSE, LOCALE ALL MIDERCROUND AND OVERHEAD ANTERFERENCES, WINCH MAY AFFECT HIS OPERATION DIRING CONSTRUCTION AND SHALL TAKE ALL HACESSARY PRECAUTIONS TO AND DAMAGE TO SAME THE CONTRACTOR SHALL USE EXTREME CANTON WHEN WORKING NEAR OVERHEAD UTILITIES SO A TO SAFELY PROTECT ALL PRESONNEL AND CANDENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- 3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, SURVEY MONUMENTS AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- 5. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- 6. CURB. GUTTER, AND SIDEWALK, FOUND TO BE UNACCEPTABLE PER CITY STANDARDS AND APWA SHALL BE REMOVED AND REPLACED
- 7 CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS.
- 8. ANY SURVEY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER SALT LAKE COUNTY SURVEYORS REQUIREMENTS.
- 9. ALL PRIVACY WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. ALL WALLS SHALL HAVE A MINIMUM 2 ft x 2 ft x 30 INCH DEEP SPOT FOOTINGS, BOTTOM OF ALL FOOTINGS ON ALL WALLS SHALL BE A MINIMUM OF 30 INCHES BELOW FINISHED GRADE. WALLS GREATER THAN 6 FEET REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
- 10. ALL CONSTRUCTION MATERIALS PER APWA MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT
- 11. REQUEST FOR INSPECTION BY THE CITY OF SOUTH JORDAN ENGINEERING DEPT. SHALL BE MADE BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE THE INSPECTION SERVICES WILL BE REQUIRED, EXCEPT IN AN EMERGENCY AS DEFINED BY THE SOUTH JORDAN CITY
- WORK IN PUBLIC WAY, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- 13. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION.
- 14. POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CITY OF SOUTH JORDAN, POWER LINES AND ALL OTHER AERIAL UTILITIES ARE TO BE BURIED AND POLES REMOVED AS DETERMINED BY THE CITY ENGINEER.
- 15. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING EACH JOINT SHALL BE CHECKED FOR A GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER
- 16. CONTRACTOR TO FOLLOW SALT LAKE COUNTY NOISE ORDINANCE STANDARDS
- 18. A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AS PER STATE LAW AS WELL AS PROVIDING A STORM WATER POLLUTION PREVENTION PLAN TO THE CITY.
- 19. DEVELOPER IS RESPONSIBLE FOR LOCATING AND REPAIRING ALL UNDERGROUND STREETLIGHT WIRES, WATER LINES, STORM DRAIN LINES AND IRRIGATION LINES UNTIL 90% OF THE BOND HAS BEEN RELEASED.
- ALL CITY MAINTAINED UTILITIES INCLUDING; WATERLINE, FIRE HYDRANTS, STREETLIGHT WIRING, AND STORM DRAIN MUST BE IN PUBLIC RIGHT OF WAY OR IN RECORDED EASEMENTS.
- 21. CONTRACTOR SHALL WORK SOUTH JORDAN CITY REGULAR WORKING HOURS OF MONDAY THROUGH FRIDAY. IF CONTRACTOR PERMITS OVERTIME WORK OR WORK ON A SATURDAY, SUNDAY OR ANY LEGAL HOLIDAY, CONTRACTOR SHALL RECEIVE PRIOR APPROVAL BY CITY ENGINEER, CONTRACTOR SHALL OSTAN ALL PERMITS AND PAY OVERTIME INSPECTION FOR THE CITY OF SOUTH JORDAN ON THE THURSDAY PRIOR TO THE SATURDAY, SUNDAY OR LEGAL HOLIDAY REQUESTED.
- 22 INDICATION OF BOARD OF EASE A LEGISLE ASSISTED PAWING MIST BE SUBMITTED TO THE CITY OF SOUTH TORDAY STANDED AND PRIOR TO 5% BOND RELEASE, A LEGIBLE A SAULT DRAWING MUST BE SUBMITTED TO THE CITY OF SOUTH JORDAN STAMPED AND WATERINES, REPORTING THE SOUTH JORDAN STAMPED AND WATERINES, REPORTING STREET LICHTING, AND POWER A SAULT STAM LICHTING LICHTING AND POWER A SAULT STAM LICHTING LICHTING AND THE REDUCT OF THE APPROVED DRAWINGS WILL BE REQUIRED STATING INSTALLED AS PER ORWINGS. SAULT DRAWINGS FOR NEW DEVELOPMENT SHALL BE SUBMITTED TO THE REQUIRED STATING INSTALLED AS PER ORWINGS. ADDIT DRAWINGS FOR NEW DEVELOPMENTS SHALL BE SUBMITTED TO THE Y IN THE FOLLOWING FORMATS AND QUANTITIES PRIOR TO THE 90% BOND RELEASE: 1 .dxf COPY, 1 .pdf COF
- 23. FILTER FABRIC WRAPPED AROUND AN INLET GRATE IS NOT AN ACCEPTABLE INLET SEDIMENT BARRIER. SEE CHAPTER 9 OF SOUTH JORDAN CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR DETAILS OF APPROVED STORM WATER BMPs
- 24. ASPHALT PAVING BETWEEN OCTOBER 15 AND MARCH 15 IS NOT ALLOWED WITHOUT A WRITTEN EXCEPTION FROM THE FINGINFERING DEPARTMENT
- 25. NO MORE THAN 15 PERCENT RAP (RECLAIMED ASPHALT PAVEMENT) BY WEIGHT WILL BE ALLOWED IN THE ASPHALT MIX DESIGN FOR THE PAVING OF PUBLIC AND PRIVATE STREETS. UP TO THE 15 PERCENT WILL BE ALLOWED WITH NO CHANGE IN THE SPECIFIED BINDER GRADE.
- 26. TO ENSURE PROPER PLANTING, PROTECTION AND IRRIGATION OF TREES, MITIGATING RISK OF TREE FAILURE OR FUTURE DAMAGE TO INFRASTRUCTURE CONTRACTORS ARE REQUIRED TO FOLLOW THE STANDARDS AND SPECIFICATIONS OF THE ISA - INTERNATIONAL SOCIETY OF ARRORICHI TURE
- 27. ALL SMALL CELL CONSTRUCTION MUST FOLLOW THE SOUTH JORDAN CITY SMALL CELL INFRASTRUCTURE DESIGN GUIDELINES

#### CITY OF SOUTH JORDAN TRAFFIC NOTES

- 1 WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE THE SAFE ROUTE SHALL BE MAINTAINED IN A MANNER ACCEPTABLE TO SOUTH JORDAN CITY AND THE JORDAN SCHOOL DISTRICT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAYEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY ENGINEER, PUBLIC WORKS DIRECTOR OR TO BEGINNE.
- 3. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR PER APPROVED CONSTRUCTION DRAWINGS UNLESS APPROVED BY THE CITY ENGINEER.

- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTAH TRANSIT AUTHORITY (UTA) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPOR RELOCATION OF STOP.
- 7. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING PUBLIC STREETS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PER THE CURRENT EDITION ADOPTED BY UDOT AND BE APPROVED BY THE CITY OF SOUTH JORDAN BEFORE CONSTRUCTION BEGINS.
- ALL SIGNS LARGER THAN 36" x 36" OR 1296 SQUARE INCHES PER SIGN POLE SHALL BE MOUNTED ON A SLIP BASE SYSTEM PER UDOT STANDARD DRAWING SN 10B (DETAIL DRAWING ATTACHED TO STANDARD DRAWINGS) WITH A "Z" BAR BACKING. SIGNS OF THIS SIZE ARE NOT ALLOWED TO BE MOUNTED ON A YELDING POLE.
- 9. SIGN COMPONENTS SUCH AS SHEETING, EC FILM, INKS, LETTERS AND BORDERS ARE ALL REQUIRED TO BE FROM THE SAME MANUFACTURER. ONLY EC FILM MAY BE USED TO ACHIEVE COLOR. VINYL EC FILM IS NOT ACCEPTED.
- 10. ALL NEW ROUNDABOUTS, CROSSWALKS, STOP BARS AND LEGENDS SHALL BE INSTALLED WITH 90 MIL PREFORMED THERMO PLASTIC.
- 11. PAVING ASPHALT BINDER GRADE SHALL BE PG 64-22 UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 12. ASPHALT AGGREGATE SIZE SHALL BE ½ INCH FOR RESIDENTIAL ROADS AND ½ INCH FOR COLLECTOR ROADS
- 13. POTHOLING: ALL POTHOLES MUST BE SAW CUT SQUARE AND HAVE A MINIMUM SIZE OF 1 SQUARE FOOT. WHEN REPAIRING A POTHOLE. SAND OR PEA GRAVEL MEETING SOUTH JORDAN CITY STANDARDS SHALL BE PLACED OVER THE EXPOSED UTILITY TO A DEPTH OF 6 INCHES, FOLLOWING THE PEA GRAVEL WILL BE FLOWABLE FILL UP TO 1 INCH BELOW THE BOTTOM EDGE OF THE EXISTING ASPHALT, THE REMAINING PORTION OF THE HOLE SHALL BE FILLED WITH ASPHALT, WHICH WILL HAVE AN OVERALL THICKNESS OF THE EXISTING ASPHALT PLUS LINCH
- 14. ALL FILL WITHIN THE PUBLIC RIGHT OF WAY SHALL BE A-1-A TO A-3. WITH THE EXCEPTION OF TOP SOIL IN THE PARK STRIP FOR ALL FILE WHITE WITE AND TERICH BACKFILL TRENCH BACKFILL MATERIAL UNDER PAYEMENTS OR SUFFACE IMPROVEMENTS SHALL BE CLEAN, NONCLUMPING, GRANULAR AND FLOWABLE, 2" MINUS, A-1-A TO A-2-7 SOILS ACCORDING TO AASHTO 145 SOIL CLASSIFICATION SYSTEM LIME REATED FLOWABLE FILLS, IF APPROVED, SHALL HAVE A 26-BACY STRENGTH OF 65 PS 1-4.
- OR HIS/HER REPRESENTATIVE, PCMS BOARDS MUST BE PLACED A MINIMUM OF 7 DAYS IN ADVANCE OF ANY LANE CLOSURE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

#### CITY OF SOUTH JORDAN STREET LIGHT NOTES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT SOUTH JORDAN CITY STANDARDS AND N.E.C. (NATIONAL ELECTRIC CODE), A STREET LIGHT PLAN SHOWING WIRING LOCATION, WIRING TYPE, VOLTAGE, POWER SOURCE LOCATION, CONDUIT SIZE AND LOCATION SHALL BE SUBMITTED TO THE CITY OF SOUTH JORDAN AND BE APPROVED PRIOR TO CONSTRUCTION. NO DEVIATION OF STREETLIGHT, PULL BOXES, CONDUITS, ETC. LOCATIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY

AN ELECTRONIC COPY OF THE STREET LIGHT REDLINES, SHOWING THE SAME ITEMS LISTED ABOVE FOR THE STREET LIGHT PLAN BE SUBMITTED TO THE SOUTH JORDAN CITY ENGINEERING DEPARTMENT AFTER THE STREET LIGHTS HAVE BEEN INSTALLED BUT PRIOR TO THEM BEING CONNECTED BY ROCKY MOUNTAIN POWER.

- 1 LOCATION OF THE STREET LIGHT DOLE
- A. SHALL NOT BE INSTALLED WITHIN 5 FEET OF A FIRE HYDRANT. THE LOCATION SHALL BE SUCH THAT IT DOES NOT HINDER THE OPERATION OF THE FIRE HYDRANT AND WATER LINE OPERATION VALVES
- SHALL BE A MINIMUM OF 5 FEET FROM ANY TREE, UNLESS WRITTEN APPROVAL IS RECEIVED FROM THE CITY ENGINEER BRANCHES MAY NEED TO BE PRUNED AS DETERMINED BY THE ENGINEERING INSPECTOR IN THE FIELD AT THE TIME OF INSTALLATION.
- C. SHALL NOT BE INSTALLED WITHIN 5 FEET FROM THE EDGE OF ANY DRIVEWAY.
- 2. ANTI-SEIZE LUBRICANT SHALL BE USED ON ALL COVER BOLTS AND GROUND BOX BOLTS.
- 3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- 4. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC. SHALL LEAVE A MINIMUM OF EIGHTEEN (18 INCHES TO THE FACE OF THE STREET LIGHT POLE ON ALL SIDES
- ALL SERVICE POINT(S) SHALL BE COORDINATED WITH ROCKY MOUNTAIN POWER AND WHENEVER POSSIBLE BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINT(S) SHALL BE SHOWN ON THE PLANS WITH A SCHEMATIC FROM ROCKY MOUNTAIN POWER. POLE LOCATIONS AS SHOWN ON THE APPROVED PLANS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEERING INSPECTOR AT TIME OF INSTALLATION AT NO ADDITIONAL COST TO THE CITY.
- 6. IT SHALL BE REQUIRED THAT IN THE ABSENCE OF AN EXISTING WORKABLE CIRCUIT TO ATTACH TO. THAT ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUITS IN THIS CASE DEVELOPER AND OR HIS ENGINEER SHALL CONTACT ROCKY MOUNTAIN POWER.
- 7. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF THE STREET LIGHT CIRCUITS AND/OR STREETLIGHT FOLES, THOSE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE THE STREET LIGHT BASES ARE CONSTRUCTED AT NO EXPENSE TO THE CITY OF SOUTH JORDAN OR ROCKY MOUNTAIN POWER. THE RESOLUTION MUST BE APPROVED BY THE CITY OF SOUTH JORDAN AND ROCKY MOUNTAIN POWER.
- 8. THE CONTRACTOR SHALL FURNISH A COMPLETE SERVICE TO THE TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS AND/OR IS DEEMED NECESSARY BY ROCKY MOUNTAIN POWER AND/OR SOUTH JORDAN CITY
- A STREET LIGHT PLAN SHOWING WIRING LOCATION, WIRING TYPE, VOLTAGE, POWER SOURCE LOCATION, CONDUIT SIZE AND LOCATION SHALL BE SUBMITTED TO THE CITY OF SOUTH JORDAN AND BE APPROVED PRIOR TO CONSTRUCTION.
- AND ENERGIZED BY ROCKY MOUNTAIN POWER. THIS TEST SHALL BE COORDINATED AND WITNESSED BY A SOUTH JORDAN
- 11. EACH STREETLIGHT POLE SHALL HAVE ITS OWN PHOTO CELL INDEPENDENT OF A MASTER CONTROL. ON DOUBLE HEAD FIXTURES A SINGLE PHOTO CELL SHALL BE INSTALLED ON THE NORTH MOST FACING HEAD AND BE WIRED TO ENERGIZE BOTH HEADS

### CITY OF SOUTH JORDAN GRADING NOTES

ENGINEERING INSPECTOR.

- 1 IN THE EVENT THAT ANY LINEORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER AND CITY ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS
  PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
- 4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY
- 5. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:
- HORIZONTAL VERTICAL COMPACTION

  0.1'\* +0.0' TO -0.1' SEE SOILS REPORT

  0.5'\* +0.1' TO -0.1' SEE SOILS REPORT PAVEMENT AREA SUBGRADE

COMPACTION TESTING WILL BE PERFORMED BY THE DEVELOPER OR HIS REPRESENTATIVE.

- 6. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER FROM THE PUBLIC WORKES DEPARTMENT.
- 8. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OFWAY IN A CLEAN, SAFE AND USABLE

CONDITION, ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

- 9. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DR. DEVELOPER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES BERMS ROAD SIGNS AND BARRICADES ETC.
- 10. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.

#### CITY OF SOUTH JORDAN FIRE DEPARTMENT NOTES

- 1. ON ANY NEW HOME OF RUILDING INSTALLATION ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED RECORD COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL CALL THE PUBLIC WORKS DEPARTMENT AND ENGINEERING INSPECTOR FOR UNDERGROUND INSPECTION,
  PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES BEFORE BACK FILLING.
- 3. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE SHALL BE APPROVED BEFORE BEING CONSTRUCTED.
- 4. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
- 5. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND A.W.W.A. APPROVED.
- THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE, SHALL BE NOT LESS THAN
  FORTY-FIVE FEET (45) OUTSIDE RADIUS AND TWENTY-TWO FEET (22) INSIDE RADIUS AND SHALL BE PAVED.
- 7. A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN ONE-HUNDRED FIFTY FEET (150') FROM FIRE DEPARTMENT VEHICLE ACCESS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF ONE HUNDRED FIFTY FEET (150') IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND AREA.
- 8. ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE. ONE SIGN AT THE ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE BUND OF THE RIFE LANE AND WIGH ISIGNS AT INTERVALS OF ONE-HUNDRIDE PEET (100) ALONE, ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIGES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON ETHER SIDE. SIGNS SHALL BE INSTALLED AT LEAST, MASSINGED FROM THE BOTTOM BEDGE OF THE SIGN TO THE NEEDED FOR THE SIGN SHALL BE ALL BASET. THE CURB ALONG OR ON THE PREVENTS OCCUR. THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE AT LEAST. THE CURB ALONG OR ON THE PAYEMENT OR CEMENT IF CURB IS NOT PRESENT, SHALL BE
- PAINTED WITH RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS.
- 10. FLECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM, SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE SOUTH JORDAN CITY F.D. APPROVAL, GATES ARE ONLY ALLOWED WITH PRIOR APPROVAL
- 11. ALL UNDERGROUND FIRE LINES THAT SERVICE AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL BE NO SMALLER THAN SIX (6) INCHES IN DIAMETER. ALL FIRE LINES MATERIAL SHALL BE DUCTILE IRON. (DUCTILE IRON FROM THE PIV TO THE BUILDING SHALL BE PERMITTED OR DUCTILE IRON FROM THE MAIN WATER LINE TO THE WIV). 12. POST INDICATOR VALVES (PIV) SHALL BE BETWEEN 6 AND 40 FEET FROM BUILDINGS NOT EXCEEDING THREE STORIES OR
- EQUIVALENT IN HEIGHT AND BÉTWEEN 30 AND 40 FEET ON BUILDINGS IN EXCESS OF THREE OR MORE STORIES IN HEIGHT OR
- 13. ROADS AND ACCESSES SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS. SURFACE SHALL BE PAVED BEFORE THE APPLICATION OF COMBUSTIBLE MATERIAL

#### SOUTH JORDAN CITY WATER NOTES

- 1. THE FOLLOWING SOUTH JORDAN CITY WATER NOTES ARE INTENDED FOR GENERAL WATER STANDARDS ONLY AND ARE NOT ALL INCLUSIVE. THE CITY HAS INCLUDED THE CULINARY WATER DESIGN AND CONSTRUCTION STANDARDS WITHIN CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- FOLLOWING WATER PLAN APPROVAL. FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE ENGINEERING INSPECTOR AND THE PUBLIC WORKS DEPARTMENT (253- 5230) PRIOR TO THE START OF CONSTRUCTION, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO AN INSPECTION.
- 3. ALL WORK WITHIN SOUTH JORDAN CITY SHALL CONFORM TO SOUTH JORDAN CITY STANDARDS AND SPECIFICATIONS. AWWA AND
- 4. FOR RESIDENTIAL DEVILOPMENTS. THE DISELECTE SHALL PURCHASE AND INSTALL METER BOXES AND SETTERS ACCORDING TO CITY STRAMBOS ON NEWLY DEVILOPED LOTS AND DEAP PROPERTY AT THE TIME OF WAVER AND INSTALLED BY THE SOUTH JORDAN PUBLIC WORKS DEPARTMENT (AT DEVILOPER'S EXPENSE; THE DEVILOPER'S BAULL ALSO PROVIDE HE SIST EADORSES, LOT MANIBER, METER SIZE AND PAY METER FEES PRIOR TO BUILDING PERMIT
- 5. FOR COMMERCIAL AND CONDOMINIUM DEVELOPMENTS THE DEVELOPER SHALL PURCHASE AND INSTALL METER BOXES AND SETTERS ACCORDING TO CITY STANDARDS, WATER METERS WILL BE SUPPLIED BY SOUTH JORDAN PUBLIC WORKS DEPARTMENT (AT DEVELOPER'S EXPENSE) AND INSTALLED BY DEVELOPER.
- 6. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO COMMISSIONING THE NEW WATER LINE TO THE SOUTH JORDAN CITY CULINARY WATER DISTRIBUTION SYSTEM.
- SHUT DOWN AS DEEMED NECESSARY, REQUIRING THE CONTRACTOR TO BE BILLED FOR OVERTIME. 48 HOUR NOTICE IS REQUIRED.
- 8 WATER STUB-OUT INSTALLATIONS WILL NOT BE CONSTRUED AS A COMMITMENT FOR WATER SERVICE
- 9. CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER): IN THE EVENT THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS, INSTALLATIONS OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE CITY STANDARDS AND ATT THE DEVELOPERS SEPPENSE.
- 10. ALL LINES TO BE PRESSURE TESTED ACCORDING TO SOUTH JORDAN CITY AND AWWA STANDARDS AND CHLORINATED PRIOR TO USE AND FINAL ACCEPTANCE.
- 11. ALL FITTINGS TO BE COATED WITH POLY FM GREASE AND WRAPPED WITH 8-MIL THICK POLYETHYLENE.
- 12. NO OTHER UTILITY LINES MAY BE PLACED IN THE SAME TRENCH WITH WATER LINE UNLESS APPROVED BY THE CITY ENGINEER.
- 13. ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE CITY ENGINEER OR DESIGNEE 14. ALL WATER VAULTS WILL BE CONSTRUCTED PER CITY OF SOUTH JORDAN STANDARD DRAWINGS AND SPECIFICATIONS. NO VAULTS
- ARE ALLOWED IN TRAFFIC AREAS WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
- 16. ONCE THE WATERLINE HAS BEEN TESTED, APPROVED AND CITY WATER IS FLOWING THROUGH THE PIPE, ONLY CITY PERSONNEL ARE
- 15. LANDSCAPING AND IRRIGATION ADJACENT TO VAULTS SHALL DRAIN AWAY FROM VAULTS. 17. MEGALUG FOLLOWING RING OR AN APPROVED EQUIVALENT SHALL BE USED ON ALL FITTINGS

AUTHORIZED TO SHUT DOWN AND CHARGE THE WATERLINE

- 18. APWA PLAN 562, CITY REQUIRES STAINLESS STEEL TIE-DOWN RESTRAINTS WITH TURNBUCKLES ONLY. 5/8° REBAR IS NOT ACCEPTABLE. MEGALUG FOLLOWERS REQUIRED ON ALL FITTINGS AND ALL DIMENSIONS OF THRUST BLOCKING STILL APPLY. THRUST BLOCKS MAY BE ELIMINATED IF HORIZONTAL TIE DOWN RESTRAINTS HAVE BEEN PRE-ENGINEERED AND RECEIVE PRIOR CITY
- 10. WATER MAINS WILL BE HOT TARRED AS CALLED OUT ON THE ADDROVED DLANS LINDER SPECIAL CIRCLIMSTANCES, WHEN A WATER MANS WILL BE HOT TAPPED AS CALLED OUT ON THE APPROVED PLANS. UNDER SPECIAL DISCUSSIFIANCES, WHEN A THE PROPERTY OF THE CITY CONTROLLED OF THE CONTROLLED ON THE CONTROLLED OF THE CONTROLLED ON THE CONTROLLED OF THE CONTROL
- 20. CONTRACTORS ARE REQUIRED TO WRITE THE LOT NUMBER WITH A BLACK PERMANENT MARKER ON THE INSIDE OF THE WATER METER BARRELS AS THEY ARE INSTALLED.





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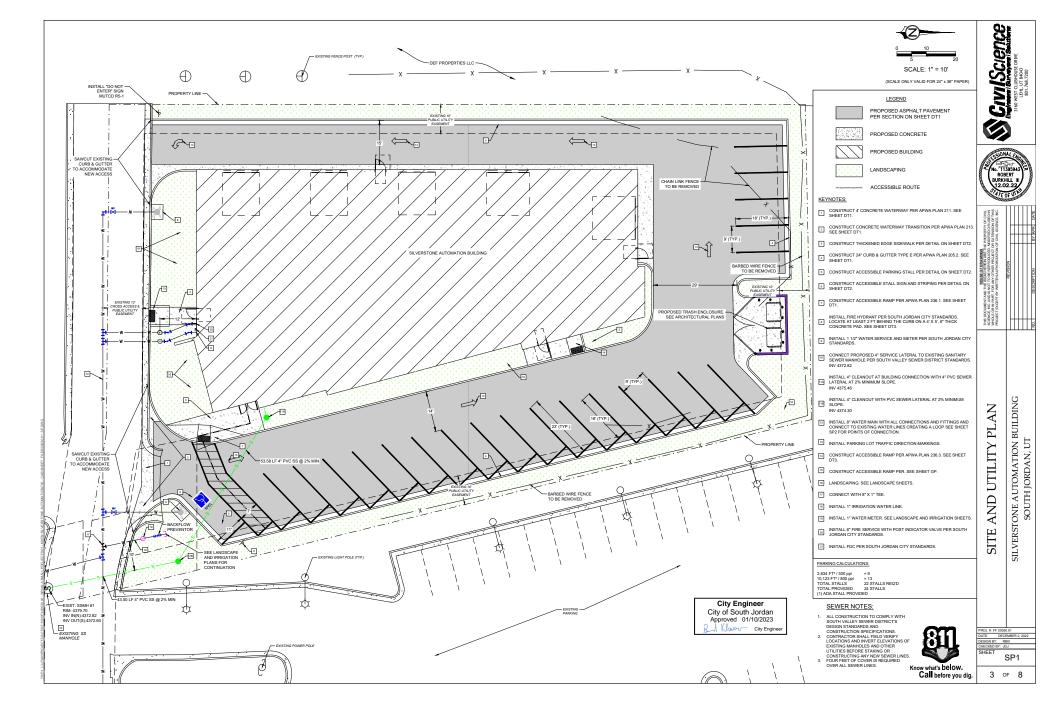
City of South Jordan Approved 01/10/2023

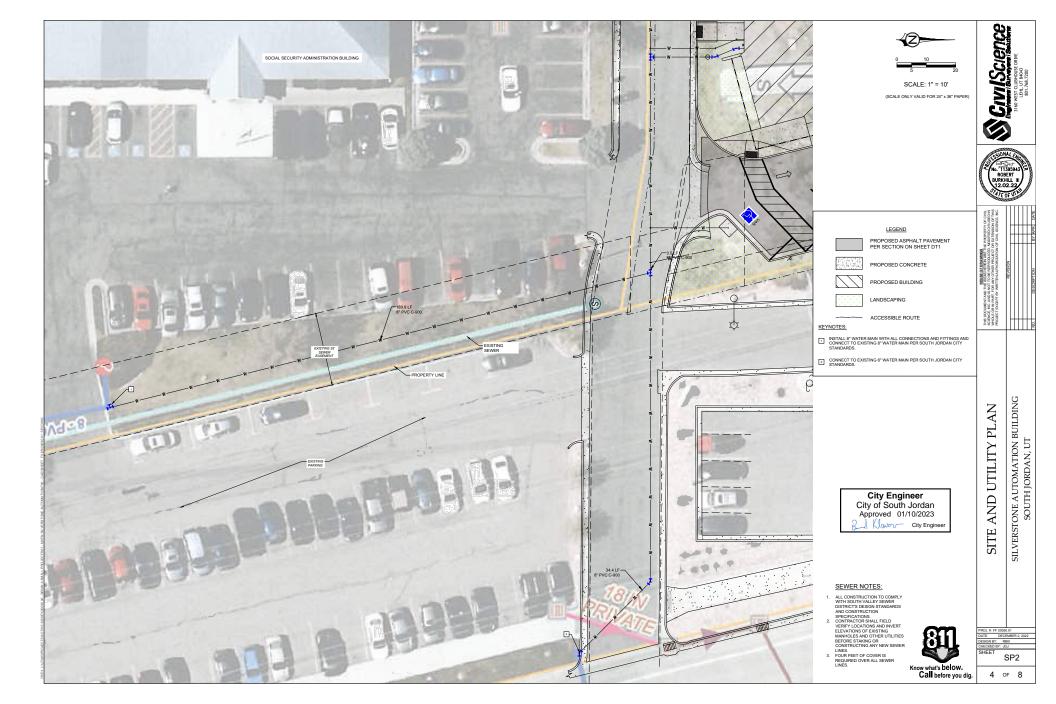
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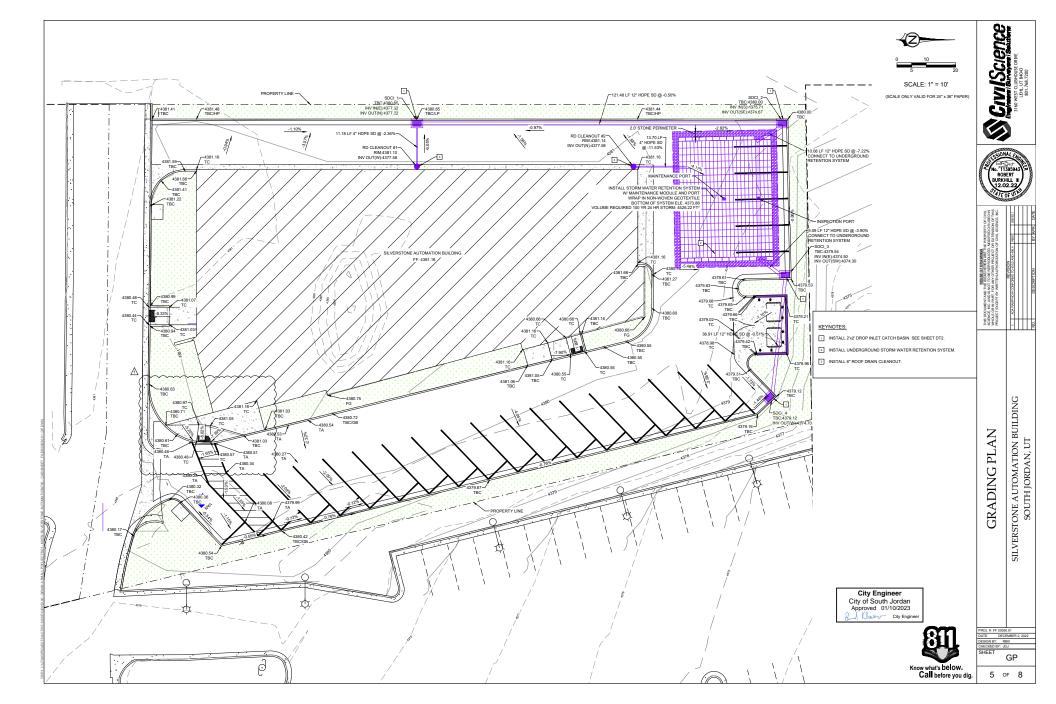
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2 of 8







# Waterway

- PREMAL

  Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
- B. Unless indicated otherwise, width of waterway as follows.
- 4 feet for a residential street.
- ) 6 feet for a non-residential street.

  If wider than 6 feet, offset the flow line in the waterway to match (line up with) the
- curb and gutter flow line. Adjust cross slopes to match existing slopes. C. Additional requirements are specified in APWA Section 32 16 13.

#### 2. PRODUCTS

1 GENERAL

- Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel
- base course. Unleased base course, A-PVA-Seculor 22 11 2.5 Unit uses grave as a base course without ENGINEER's permission.

  Expansion Joint Filler. 1/2-inch thick type F1 full depth, APWA Section 32 13 73.

  Concrete: Class 4000, APWA Section 03 30 64, if necessary, provide concrete that achieves design strength in less than 7 days. Use caution, however, as concrete
- crazing (spider cracks) may develop if air temperature exceeds 90 degrees F. D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel,
- ASTM A615.

  E. Concrete Curing Agent: Clear membrane forming compound with fugifive dye (Type ID Class A), AFWA Section 03 39 00.

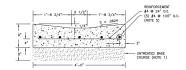
#### 3. EXECUTION

- Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment waxmum in trinchess before compaction is 6-increase when using hang equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

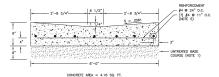
  Concrete Placement: APWA Section 03 30 10.

  1) Install expansion joints vertical, full depth, with top of filler set flush with concrete
- surface. Expansion joints are not required in concrete placement using slip-form
- Surface. Expansion joints are in a required in construction.

  2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
- Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



CONCRETE AREA = 2.764 SQ. FI 4'-0" WATERWAY



Waterway

# 6'-0" WATERWAY

211

#### Waterway transition structure

#### 1. GENERAL

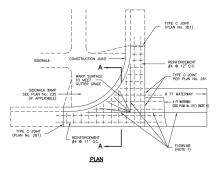
- Nariance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   Additional requirements are specified in APWA Section 32 16 13.

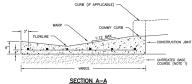
#### PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73...
- Concrete. Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete
- crazing (spider cracks) may develop if air temperature exceeds 90 degrees F D. Reinforcement. Galvanized or epoxy coated, deformed, 60 ksi yield grade steel ASTM A615.
- Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

#### 3. EXECUTION

- Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand. held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- density, APWA Section 31 23 26.
  Concrete Placement: APWA Section 03 30 10.
  1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install al the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
- Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 6-inches thick. Match joint location in adjacent Portland-cement concrete roadway payment. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
- C. Protection and repair. Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.





Waterway transition structure 33

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DET,

#### Curb and gutter

#### GENERAL

211

Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.

B. Additional requirements are specified in APWA Section 32 16 13.

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.

  B. Expansion John filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.

  C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that
- achieves design strength in less than 7 days. Use caution, however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

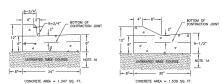
# 3. EXECUTION

- A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.05) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, AP/WA Section 31 23 26.

  Concrete Placement: AP/WA Section 33 01 0.

  1) Install expansion joints vertical, full depth, with top of filler set flush with concrete
- surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.

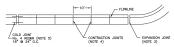
  2) Install contraction joints vertical, 1/8-inch ulde or 1/4 slab inchicases if the slab is greater than 8-indhes thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
- Provide 172-Inch radius edges. Apply a broom finish. Apply a curing agent.
   Provide 172-Inch radius edges. Apply a broom finish. Apply a curing agent.
   Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



TYPE F

TYPE E

CONCRETE AREA = 1.989 SQ. FT. TYPE G



CURB AND GUTTER JOINT DETAIL

Curb and gutter

205 Drawing 2 of 2

# Midblock curb cut assembly

248

213

- A. Where existing elements or spaces are altered to receive an assembly: slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the mbly may be different than shown
- assemoly may be climerent than shown.
  Installation of flares or curb returns is ENGINEER's choice.
  Definitions and supplemental requirements are specified in APWA Section 32 16 14.

- PROJUCU IS

  A. Base Course: Unlrealed base course, APWA Section 32 11 23. Do not use gravel as a base course without PNGINEER's permission.

  Expansion Juni Filer. 172-th of this type F1 full depth, APWA Section 32 13 73.

  Detectable Warning Surface: Prawer, ribbed composite panel, or file. Provide a color that contrales with adjacent wellings jurface, after light-or-deft or defix-d-light.

  FORMINEER to select operate on the contral inclinated elsewhere.

  Gonzele Cultura Apart. Clear premibrane formion commont with fiveline-the Charles.
- E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

#### 3. EXECUTION

- EXECUTION

  A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. B Curb Modifications:
- The sloped surface created to accommodate a flare area shall be perpendicular to
- In le sloped surface created to accommodate a faire area shall be perpendicular to the back of carb.
   No grade break shall exist between the flow-line and the foot of the curb ramp or blended transition. Length of the curb modification abutting the curb ramp or transition is 4 feet minimum.
   Curb Ramp: Length not required to exceed 15 feet. Grade breaks are perpendicular to
- the direction of ramp run and are not permitted on the ramp or turning space surface.
- the direction of raining but and are not permitted in the family or turning space surface.

  Sides are partial to each other and perpendicular to the each.

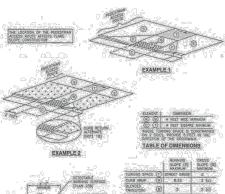
  1 Maximum length is width ratio for rectangular panel joints is 1,5 to 1, Joint spacing measured in feet so to exceed whose salte bidenses measured in inches or a maximum of 15 feet.

  2 Install expansion joints vertical, full depth, with top of filler set flush with concrete.
- surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork
- Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   Clear Space: No trip hazards in the clear space.

236.1

City Engineer City of South Jordan Approved 01/10/2023 Mouten City Engin

# TURNING SPACE AT SIDEWALK LEVEL



SLOPE TABLE

Mid-block curb cut assembly

236.1

6 or 8

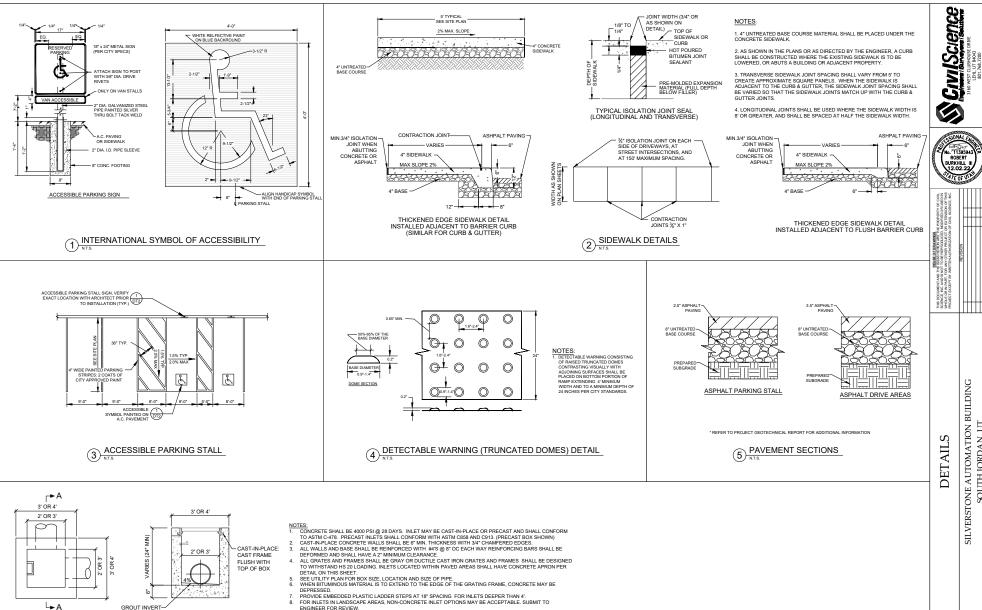
DT1

205.2

June 2005

January 2003

27



City Engineer City of South Jordan Approved 01/10/2023 1 Davor City Engine DT2

SILVERSTONE AUTOMATION BUILDING SOUTH JORDAN, UT

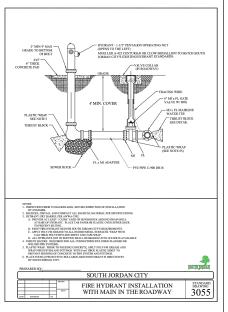
7 of 8

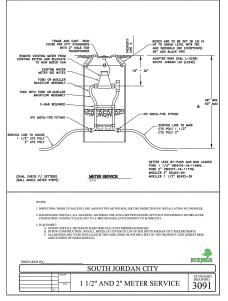
PRECAST DROP INLET DETAIL

TO DRAIN

PLAN VIEW

SECTION A-A







# Mid-block curb cut assembly

 GENERAL
 Where existing elements or spaces are altered to receive an assembly; stopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown

B. Installation of a curb wall is ENGINEER's choice.

Definitions and supplemental requirements are specified in APWA Section 32 16 14.

PRODUCTS

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.

B. Expansion Joint Filler: 1/2-linch thick type F1 full depth, APWA Section 32 13 73..

Business Will make (Auction the August Control of the August

#### 3. EXECUTION

A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is95 percent or greater relative to a modified proctor density,

occupanced. Compacted men to say loan, put up to the compact of th

maximum of 15 feet.

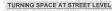
maximum of 15 feet.

Install expansion joins vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 18-inch wide, and 1/4 of the depth of the concrete flatwork.

Provide 1/2-inch addus adges. Apply a broom finish. Apply a curing agent.

F. Clear Space. No trip hazards in the clear space.





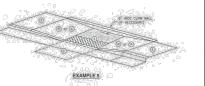


TABLE OF DIMENSIONS



CivilScience



236.3

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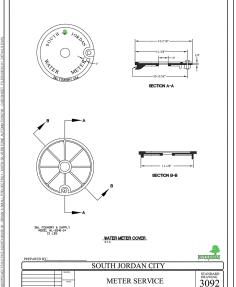
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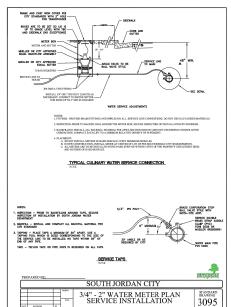
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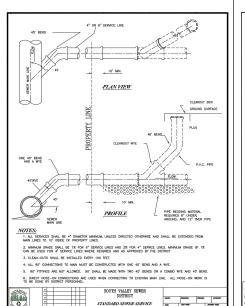
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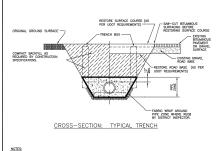
SILVERSTONE AUTOMATION I SOUTH JORDAN, UT

236.3









Mid-block curb cut assembly

ALL SEWER LINES TO BE INSTALLED IN PUBLIC RIGHT-OF-WAY OR RECORDED SEWER EASEMENT UNLESS OTHERWISE APPROVED BY SOUTH VALLEY SEWER DISTRICT.

2. THE DISTRICT RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE OSHA AND UCSH REQUIREMENTS, LATEST EDITIONS).

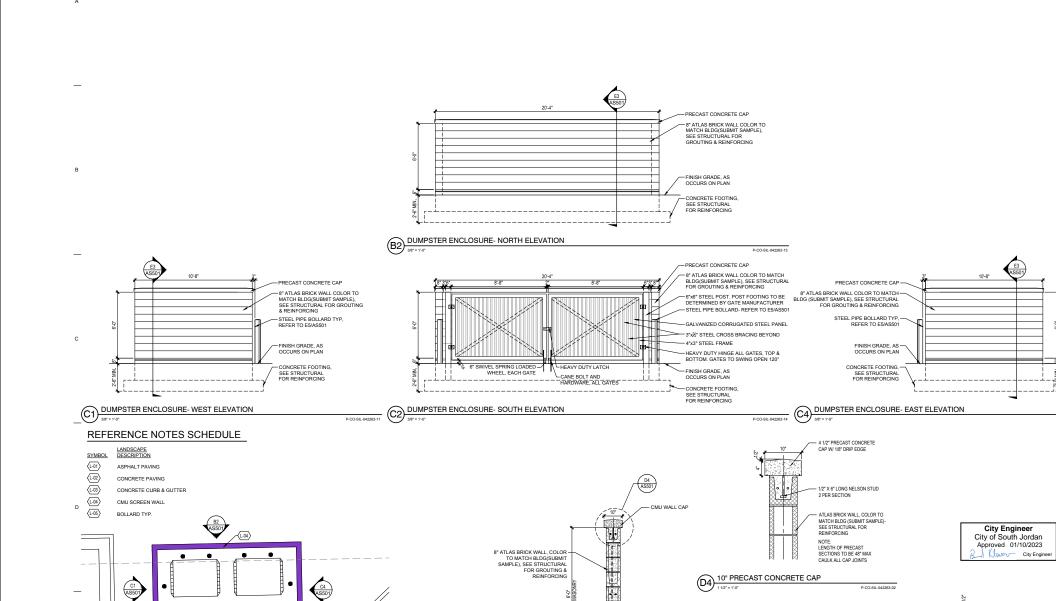
3. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UILLINES BEFORE LAYIND PIPE WITHIN 50° OF SAID UTILITIES WHICH MAY BE DEPOSED, DAMAGED OR BIOSED AS SHATIN ON THE DIRANISED OR AS TILLE SHATED. THE CONTRACTOR MILL MAKE BENEFIELD OF THE SHATE SHATE

ASPHALT RESTORATION SHALL MATCH EXISTING TO A MAXMUM OF 6" AND SHALL INCLUDE A 6" UNTRIATED BASE COURSE AND 12" GRANULAR BORROW COURSE AS PER UDOT STANDARDS.



DT3

8 OF 8



# HOLDINGS10

CONSTRUCTION DOCUMENTS

**IRRIGATION** 

LI100

PLAN

JORDAN GATEWAY JORDAN CITY, UT 84117

10096 S. SOUTH J

MHTN

ARCHITECTS MHTN Architects, Inc.

REFERENCE NOTES SCHEDULE

LAYOUT DRIP LINE SO THAT AS A MINIMUM ALL SHRUBS LIE BETWEEN TWO ROWS OF DRIPPER LINE AND SO THAT ROWS ARE 18" TO 24" APART TYPICAL. FIELD VERIFY SOIL, SUBSOIL AND SLOPE CONDITIONS AND MODIFY AS REQUIRED. 2 COORDINATE LAYOUT OF DRIPLINE WITH THE LAYOUT OF THE PLANT MATERIAL

(L-01) ASPHALT PAVING

(L-02) CONCRETE PAVING (L-03) CONCRETE CURB & GUTTER

(L-04) CMU SCREEN WAL (L-05)

INSTALL PVC SUPPLY AND EXHAUST HEADERS A MIN. OF 6" BELOW FINISH GRADE TYPICAL THROUGHOUT.

4. FLUSH OUT THE SYSTEM COMPLETELY PRIOR TO INSTALLING THE FLUSH VALVES TO

6. INSTALL DRIPPER LINE 2" BELOW FINISH GRADE DIRECTLY BELOW MULCH LAYER.

INSTALL AUTOMATIC DRAINS AT ALL LOW POINTS IN THE PVC SUPPLY AND EXHAUST HEADERS TO ENSURE COMPLETE DRAINAGE.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AN ADEQUATE AMOUNT OF AIR RELIEF VALVES. EACH ZONE. SEPARATE AREA WITHIN ZONES, OR AREAS WITHIN ZONES SEPARATED BY GRADE VARIATIONS REQUIRE AIR RELIEF VALVES. INSTALL IN 2" PIV'S LEEVES WITH MARKER CAP.

8. ALL PVC SUPPLY AND EXHAUST HEADERS SHALL BE A MINIMUM OF 1" IN SIZE.

ALL FILTERING AND VALVING FOR BOTH THE DRIPPER LINE AND EMITTERS SHALL BE ACCOMMODATED USING THE SAME VALVE/FILTER/ PRESSURE REQUITATING ASSEMBLY

# IRRIGATION NOTES

DRIP IRRIGATION NOTES

ALL MAIN LINE PIPE SHALL BE NEW SCH 40 WITH SCH 80 FITTINGS ON ALL TEES, ELBOWS AND 90'S. ALL LATERAL LINE PIPE SHALL BE SCHEDULE 40 PVC PIPE WITH SCH 40 FITTINGS.

2 ALL GALVANIZED PIPE ON DETAILS SHALL BE NEW GALVANIZED STEEL PIPE

3 I IVE SERVICE MAINS SHALL BE INSTALLED A MINIMUM OF 18° RELOW FINISH CRADE RACKELL TRENCH AROLIND LIVE SERVICE MAIN WITH A MINIMUM OF 8° OF SAND BALATIEL INENGH AROUND UPE SERVICE MAIN WITH A MINIMUM OF 6 OF SAND.

LATERAL LINES SHALL BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE. INSTALL A

QUICK COUPLER AND DRAIN DOWNSTREAM OF THE MASTER VALVE.

ALL MAIN LINES SHALL SLOPE TO DRAIN. IF FIELD CONDITIONS NECESSITATE ADDITIONAL DRAINS, THESE DRAINS SHALL BE INSTALLED FOR COMPLETE CRAINAGE OF THE ENTIRE MAINLINE. PROVIDE A 24" DIA X.24" DEEP GRAVEL SUMP UNDER EACH DRAIN, WHICH DRAIN SHALL BE A ININ. OF 24" BELDIN GRADE. ALL MANUAL DRAIN VALVES SHALL BE INSTALLED AS DETAILED ON THE DRAWINGS. INSTALL GEO-TEXTILE FABRIC AROUND EACH GRAVEL DRAIN.

THIS CONTRACTOR SHALL PROVIDE AND INSTALL AIR RELIEF VALVES ON THE MAINLINE AT ALL DEAD END RUNS AND AT ALL HIGH POINTS THROUGHOUT.

THE CONTRACTOR SHALL PRESSURE TEST THE MAINLINE AT 150 P.S.I. PRIOR TO INSTALLING ANY LATERAL LINES.

7. ALL PVC FITTINGS SHALL BE ASTM 2466 FITTINGS.

(L-01)

IRRIGATION PLAN

\(L-01\)

8 IRRIGATION SYSTEM IS DESIGNED SO THAT THE SYSTEM CAN BE WINTERIZED LISING COMPRESSED AIR. DO NOT INSTALL AUTOMATIC DRAINS ANYWHERE ON THE SYSTEM.

THIS CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE IRRIGATION SPRINKLER SYSTEM IN CAD FORMAT SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVES, WISE SPLICES NOT IN A VALVE BOX AND DRAIN VALVES. TIE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES

 This drawing is diagrammatic only and is intended to convey the idea of full coverage of the irrigation sprinkler system. Prints shall not be scaled. The irrigation system contractor shall be responsible for the installation layout of the system in accordance with the drawings to INSTALLATION LAYOUT OF THE SYSTEM IN ACCORDANCE WITH THE DRAWINGS TO PROPORITIONALLY COVER A GIVEN HEAR AS SHOWN. THE LAYOUT MAY BE MODIFIED IF NECESSARY TO GITAIN COVERAGE TO SUIT THE MANUFACTURERS STANDARD HEADS INDICATED. DO NOT ECREASE THE MUNIBER OF HEADS INDICATED UNLESS TRANDARD HEADS INDICATED. BOTH AND THE LANDSCAPE ARCHITECT. THE SYSTEM SHALL BE TESTED FOR COMMITTE COVERAGE AND ALL RECESSARY PROPERS AUGISTMENTS MADE TO GET. FULL AND PROPER COVERAGE PRIOR TO ACCEPTANCE BY THE OWNER.

11. THE SYSTEM IS DESIGNED FOR 30 PSI OPERATING PRESSURE ON THE ENTIRE DRIP SYSTEM UNLESS OTHERWISE NOTED.

12. ALL VALVES TO BE WIRED TO CONTROLLERS USING #14 U.F. WIRE AND PEN-TITE WATER RESISTANT WIRE CONNECTORS. ALL VALVE WIRES UNDER PAVING SHALL BE INSTALLED AN AMMINULU 2'S EXPEDILE 40 PIVE CONDUTI BIRED 24 DEEP. PROVIDE AND INSTALL A DIFFERENT COLOR VALVE WIRE FOR EACH CONTROLLER. RUN ONE EXTRA WIRE FROM THE ADJACENT CONTROLLER TO EACH GROUP OF VALVES FOR FUTURE USE AND STUB INTO THE VALVE BOX.

ALL VALVE BOXES SHALL BE JUMBO SIZED PLASTIC BOXES, AMETEC OR EQUAL UNLESS OTHERWISE DETAILED.

14. ALL VALVES WILL BE LOCATED IN GROUPS 3' AWAY FROM WALKS AND CURBS-COORDINATE WITH MAINLINE LAYOUT. A DRAIN VALVE WITH SUMP SHALL BE PROVIDED AND INSTALLED AT EACH GROUP OF VALVES. A QUICK COUPLER SHALL BE PROVIDED AT EVERY VALVE MANIFOLD LOCATION. VALVES SHALL BE LOCATED 3'-D' AWAY FROM THE CURBS, WALKS OR MOWSTRIP

15. ALL ISOLATION VALVES AT VALVE MANIFOLDS SHALL BE APOLLO 70-100 SERIES BALL

A MAXIMUM OF FOUR VALVES SHALL BE INSTALLED ON EACH VALVE MANIFOLD OR MAIN LINE TEE. ALL MAINLINE MANIFOLD TEES SHALL HAVE A 4" MINIMUM OUTLET.

ALL HEADS SHALL BE SET PERPENDICULAR TO THE EXISTING GRADE SO AS TO PROVIDE PROPER COVERAGE.

PROVIDE AND INSTALL ALL THE MANUFACTURER'S RECOMMENDED SURGE AND LIGHTNING PROTECTION EQUIPMENT ON ALL NECESSARY SYSTEM COMPONENTS.

19 CONNECT TO THE EXISTING 1-1/2" PVC MAINLINE STUR AT THE LOCATION SHOWN INSTALL THE BACKFLOW PREVENTION ASSEMBLY AND MASTER VALVE. DRAIN VALVE AND QUICK COUPLER AS REQUIRED TO DRAIN THE SYSTEM.

20. INSTALL A FEBCO REDUCED PRESSURE VACUUM BREAKER BACKFLOW PREVENTION ASSEMBLY ABOVE GRADE AS DETAILED AND AS PER ALL APPLICABLE STATE CODES AND AS PER MANUFACTURES RECOMENDATIONS.

21. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SITE ITEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.

22. IRRIGATION PRODUCT SUBMITTALS SHALL INCLUDE PIPE SLEEVING AND CONDUIT

23. COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER IN THE INSTALLATION OF THE PEDESTAL MOUNTED IRRIGATION CONTROLLER. PROVIDE LIGHTNING PROTECTION PER MFGR'S RECOMMENDATIONS.

# IRRIGATION SCHEDULE

SYMBOL MANUFACTURER/MODEL

M

RAIN BIRD XCZLF-100-PRF AREA TO RECEIVE DRIPLINE NETAFIM TLDL-06-18

SYMBOL MANUFACTURER/MODEL/DESCRIPTION

> RAIN RIRD 44-NP 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING LOCKING NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY.

APOLLO VALVES 70-10 BALL VALVE (LEAD FREE), LEAD FREE BRONZE BODY, BLOW-OUT PROOF STEM DESIGN, MULTI-FILL PTFE SEATS & SEALS

> NETAFIM DIGITAL REGISTER 1-1/2" NETAFIM LHM15EM11AAFMEL, MASTER VALVE/FLOW SENSOR WITH WATER METER AND HYDRAULIC VALVE IN A SINGLE UNIT. CAST IRON WITH BAKED POWDER-COATED FINISH, MINIMUM WORKING PRESSURE 14 PSI MALE PIPE THREAD CONNECTION, DIGITAL REGISTER.

FEBCO 825Y 1\*
REDUCED PRESSURE BACKFLOW PREVENTER

HUNTER HCC-800-M/ICC-PED-SS 8 STATION OUTDOOR WI-FI ENABLED, FULL-FUNCTIONING CONTROLLER WITH TOUCHSCREEN, COMMERCIAL USE, STAINLESS STEEL PEDESTAL W/ CONCRETE PAD.

WATER METER 1" IRRIGATION LATERAL LINE: PVC SCHEDULE 40

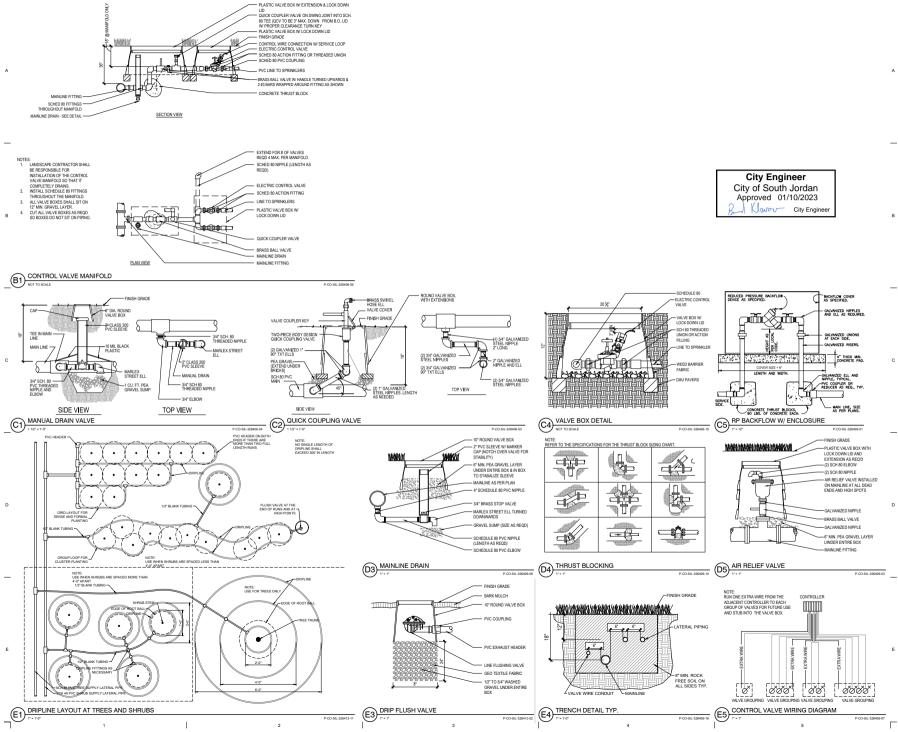
IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC CLASS 200 SDR 21
TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE.
PRESENTED TO THE PRESENT PROPERTY OF THE PROPERTY O



City Engineer City of South Jordan Approved 01/10/2023

City Engineer





SILVERSTONE AUTOMATION

10096 S. JORDAN GATEWAY SOUTH JORDAN CITY, UT 84117 HOLDINGS10 LLC

CONSTRUCTION DOCUMENTS

12.02.2022 IRRIGATION **DETAILS** 

LI501

1.1 DELATED DOCUMENTS

SECTION 328400 - IRRIGATION SYSTEMS

A This Section includes valves pining sprinklers specialties accessories controls and wiring for imigation systems.

B. Field verify capacity of the existing irrigation system complete including but not limited to flow, capacity, controller operation and etc.

C. Related Sections: The following Sections contain requirements that relate to this Section

1 Section 011000 "Summary"

Specification Section - Soils Deport for reference only

Section 328401 "Drip Irrigation System".
 Section 329301 "Landscape Planting".
 Division 26 Sections for electrical power materials:

A. Piping sizes used in this Section are normal pipe size (NPS) in inches. Tube sizes are standard size in inches. Equivalent SI (metric) sizes are indicated in millimeters (mm) in

Supply Piping: Piping from water source to connection to irrigation system press
Piping is under same pressure as water supply. Piping in this category is not inclu

D. Circuit Piping: Piping downstream from control valves to irrigation system sprinklers, et devices, and drain valves. Piping is under pressure (less than pressure piping) during

E. Control Valve: Manual or automatic (electrically operated) valve for control water flow to imigation system zone, including isolation or zone valves. F. Drain Piping: Downstream from circuit or pressure piping drain valves. Piping is not under pressure.

G. Drain Valve: Manual drain valve for draining of impation system circuit piolog

1.4 SYSTEM PERFORMANCE REQUIREMENTS

necessary to avoid planting and obstructions such as signs and light standards

B. Minimum Water Coverage: Not less than: Turf Areas: 100 percent. 2 Other Planting Areas: 100 percent

C. Components and Installation: Capable of producing piping systems with the following minimum working pressure ratings except where indicated otherwise. Pressure Piping: 150 psig (1035 kPa).

Circuit and Drain Piping: 100 psig (690 kPa)

A. Plumbing code compliance: Comply with any applicable portions of the Utah state plumbing code pertaining to the selection of materials and the installation of irrigation systems.

for by the contractor following whatever ordinances, regulations and codes requiring the permits. If the authorities of the jurisdiction require inspection at said points of the installation, the contractor shall arrange for, and be present at, any such inspection

D. Additional work or furnishing of materials required due to inspection by the authorities of jurisdiction shall be furnished at no cost to the owner. If the specifications for this project and existing ordinances, regulations or codes are in conflict, the conflict shall be noted in writing by the contractor to the owner's authorized representative, and any necessary changes in work shall follow an established procedure for claims for extra com

General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.

Product data including pressure rating, rated capacity, settings, and electrical data of selected models for the following:
 Pressure regulators.

Valves, including general-duty, underground, manual and automatic control, and quick-coupler types, and valve boxes.

Sprinklers, including emitters, drip tubes, and devices. Controls, including controller wiring diagrams.

Wiring and fittings Pine including sleeves lateral supply conduit and drain

Flow Sensor

Plastic pipe cement.
 Backflow Prevention Devic
 Master Valve

C. Wiring diagrams for electrical controllers, valves, and devices

Maintenance data for inclusion in "Operating and Maintenance Manual" specified in Division 1 Section "Project Closeout" for the following:
 Pressure regulators:
 Automatic control valves.

. Sprinklers. Controllers. Flow Sensor

Plant type (for example, turf, trees, low water use plants);

Irrigation type (for example, sprinklers, drip, bubblers);
 Flow rate in gallons per minute;

4. Precipitation rate in inches per hour (sprinklers only);
5. Run time in minutes per day;
6. Number of water days per week, and

The irrigation schedule shall rely on the estimated landscape water use calculations and shall be adjusted as necessary for irrigation efficiency, soli conditions, slope, and microclimate conditions.

G. Mock ups: This contractor will provide a mockup of a three valve 17 QUALITY ASSURANCE

E A. Comply with requirements of utility supplying water for prevention of backflow and B Comply with requirements of authority with jurisdiction for irrigation systems

C. Installer Qualifications: Engage an experienced installer who has completed minimum of 6 infigation systems similar in material, design, and extent to that indicated for Project that have resulted in construction with a record of successful in-service performance. Contractor must be a Certified Imgalion Contractor. D. Listing/Approval Stamp, Label, or Other Marking: On equipment, specialties, and accessories made to specified standards.

Listing and Labeling: Equipment, specialties, and accessories that are listed and label 1. The Terms "Listed" and "Labeled": As defined in "National Electrical Code," Article 2. Listing and Labeling Agency Qualifications: A 'Nationally Recognized Testing sypes, manuscurers, and models indicated. Components with equal performant characteristics produced by other manufacturers may be considered, provided deviations dimensions, operation, and other characteristics do not change design concept or intends performance as judged by the Architect, unless noted 'No Substitute'. The funded not proformance as judged by the Architect, unless noted 'No Substitute' and of product equality is on the Contractor. Refer to Division 1 Section 'Product Substitution' No requests for substitutions will be reviewed after bids have been received by Owner.

Laboratory' (NRTL) as defined in OSHA Regulation 1910.7

1.8 PROJECT CONDITIONS

A. Perform site survey, research public utility records, and verify existing utility locations. Verify that irrigation system piping may be installed in compliance with original design and referenced standards. Report to the Landscape Architect in writing any contradictions

Site Information: Reports on subsurface condition investigations made during design of Project are available for informational purposes only; data in reports are not intended representations or warranties of accuracy or conditivative of conditions, thetawers said their Owner assumes no responsibility for interpretations or conclusions drawn from this

Maintain uninterrupted water service to building during normal working hours. Arrange temporary water shutoff with Owner.

1.10 EXTRA MATERIALS

A. Deliver extra materials to Owner. Furnish extra materials matching products installed as described below. Package them with protective covering for storage and label clearly Quick Couplers: Furnish quantity of units equal to 10% of amount of each size installed

Sprinklers: Furnish quantity of units equal to 10% of amount of each type installed, but not less than 10.

Dripper Tube: Furnish quantity of units equal to 10% of amount of each type installe

 Unipper Luce: Furnish quantity of tes-handle units equal to 25% of amount of each type installed.
 Valve Keys: Purnish quantity of tes-handle units equal to 25% of amount of each type key-operated, control valve installed, but not less than 2 each.
 Outok Coupler Hose Selveits: Furnish quantity of units equal to 25% of amount of each type quick coupler installed, but not less than 2. Quick Coupler Operating Keys: Furnish quantity of units equal to 25% of amount of each type quick coupler installed, but not less than 3.

1 11 WADDANTVICHADANTEE

A. During the period of one (1) year from and after the final acceptance of the complete irrigation system, the Contractor shall at his own expense, make all needed repairs or replacement due to defective workmarship or materials which in the ludoement of the One. replacement due to defective workmanship or materials which in the judgement of the Owner or Owner's representative, shall become receivable variety period. If, within seven (T) the Contrader or his agent, requesting such repairs or replacement, the Contrader is applied. The contrader or his agent, requesting such repairs or replacement, the Contrader is septement, owner may make such repeats at the Contrader is septement. In the Post of the Contrader is septement in the Contrader is septement. In the Contrader is septement in the Contrader is septement in the Contrader is septement. In the Contrader is septement in the Contrader is septement. The Contrader is septement in the Contrader is septement. The Contrader is present in the Contrader is septement. The Contrader is present in the Contrader is septement. The Contrader is present in the Contrader is septement. The Contrader is present in the Contrader is septement. The Contrader is present in the Contrader is septement. The Contrader is septement in the Contrader is septement. The Contrader is septement in the Contrader is septement. The Contrader verbal communication with Contractor without notice being sent to the Contractor, and Contractor shall pay all costs related thereto.

C. During the guarantee period, the Contractor will drain the system in the fall and put the system back into operation in the Spring. This work shall be done in the presence of the Owner's representative and maintenance personnel.

A. Any deviation from plan layout should be indicated on the final "Record" Drawings Contractor shall make an exact measured and dimensioned drawing showing locations of all piping, wiring, control, valves and quick coupler valves.

C. The Contractor shall supply the Landscape Architect with record drawing information in AutoCadd format before final acceptance of the impation system. The following shall be included on Impation Record Drawings. In addition, provide a reduced color-coded drawingle; showing all zones and assigned valves.

Note all points of connection (P.O.C.) include tap size, line size and static water pressure (P.S.I.) of service.

Provide name and phone number of the servicing water purveyor include the name and date the installer was completed and the date the as-built drawing was approved.

Water Meters

Pressure Reducing Valves (note pressure set
 Filters

Stop and Waste

Master Control Valves
 Control Wire Junction Boxes

Pumps

. Flow Sensors

Remote Control Valves (note station assignment, size flow rate, pre D.U. and actual flow rates. If available from water audit).

Manual Drain Valves and Sumps

Remote Control Wire (label both ends in junction box)

Controller Location(s) (Note manufacturer, model, size and number of station used) Note and identify location(s) of existing utility systems as encountered during allation, i.e.; gas, phone, sewer, etc.

Air Release Valve

4. Indicate and show the following additional components installed on the p

All Sprinkler Heads
 Lateral Lines and Sizes

· Lateral Lines Sleeves and Size . Manual or Automatic Flush Valves

1.13 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver irrigation system components in manufacturer's original undamaged and unopened containers with labels intact and legible. B. Deliver plastic piping in bundles, packaged to provide adequate protection of pipe ends, both

A. Available Manufacturers: Subject to compliance with requirements, manufacturers products that may be incorporated in the work include, but are not limited to, the folio

Pressure Regulators
 Bermad.
 Conbraco Industries, Inc.

Honeywell Braukmann. Watts Regulator Co. Wilkins Regulator Div. Zurn Industries Inc. 2. Gate Valves for Underground Installation

Grinnell Supply Sales Co., Grinnell Corp. Nibro Inc.

Ford Meter Box Co. Inc.

Have Div. Demos led

Waterous Co.

Stockham Valves & Fittings Inc. Walendh Co

Stockham Valves & Fittings. Inc.

Corporation Stone for Underground Installation

Hunter Industries

Toro Irrigation Control Valve Boxes Ametek by Plymouth Products Div AMETEK Brooks Products, Inc., Polyplastics Div.

Carson Industries, Inc., Polypiast Carson Industries, Inc. DFW/HPI by Hefoo Plastics, Inc. National Diversified Sales, Inc.

Quick Couplers
a. Rain Bird Sprinkler Mfg. Corp. (Design Standard)

 b. Hunter Industries Toro Irrigation

Rain Bird Sprinkler Mfg. Cor Hunter Industrie

c. Toro Irrigation 9. Dripper Tubes, and Devices Netafim Inc (Design Standard) h Hunter Industries Rain Bird Sprinkler Mfg. Corp.

Pacific Western Extruded Plastics Co. Eagle Pacific Industries, Inc. J-M Manufacturing Company, Inc.

Rainbird Sprinkler Mfa Hunter Industrie Toro Irrigation 12 Word

> Paige Electric Co. (or approved equal) Netafim, Inc. (Design Standard)

14. Backflow Prevention Device

b. Watts Regulator Co b. Hunter Industries (Design Standard c. Toro Irrigation

A. Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube materials specified below are used.

PVC Socket Fittings: Schedule 40: ASTM D 2466.

Polyvinyl Chloride (PVC) Plastic Pipe: ASTM D 1785, PVC 1120 compound, Schedule 80

1. PVC Socket Fittings: Schedule 80: ASTM D 2467.

2. PVC Threaded Fittings: Schedule 80: ASTM D 2464.

D. PVC, Pressure-Rated Pipe: ASTM D 2241, PVC 1120 compound, SDR 21 Bell and Ring for pipe 4" and larger.

E. Flexible Polyethelene Pipe: Rain Bird SPX-Flex-100. Nominal inside dia. 0437 pressure rated at 80 psi at 110°F.

2.3 PIPF AND TUBE FITTINGS

B. Cast-Bronze Flanges: ASME B16.24, Class 150, raised ground face, bolt holes spot face:

C. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 80, socket-type and ASTM D2464, Schedule 80, threaded fittings. D. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type and ASTM D2464. Schedule 40, threaded fittings.

F. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type.

G. Ductile Iron: Deep Socket Cast Iron Fittings: ASTM A536, on all main line pipe 2½" or larger. H. Mechanical Joint: Mechanical Joint Steel Fittings: AWWA A21.10

Barb Fittings: Rain Bird SB Series Spiral Barb Fittings for ½" and ½" inlet sprin operating pressure 80 psi and 8 gpm.

A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for joining materials

Solvent Cement: ASTM F656 primer and ASTM D2564 solvent cement in color other than orange. Weld-on IPS P-70 primer and weld-on IPS PVC 711, plastic pipe cement.

C. Gaskets for Plastic Flanged Joints: Materials recommended by plastic pipe and fittings

D. Gaskets for Plastic Joints: Trans gaskets as recommended the fittings r

25 VALVES A. General: Valves are for general-duty and underground applications. Refer to "Valve Applications" Article for locations of various valve types specified in this Article. Refer to "Control Valves" Article for control valves and accessories and "Backflow Preventers" Article.

A. Nonrising Stem Gate Valves 3-inches (DN 80) and Larger: AWWA C500, cast-iron double disc, bronze disc and seal rings or AWWA C509, resilient sealed; bronze stem, cast-iron, or ductile-iron body and bornet, stem nut, 200 psig (1938) Psig valvering presure; and ends that fit NPS dimension, PVC pipe. Include elastomeric gaskets. All gate valves shall be domestic, resilient wdgs gate avolute.

B. Valve Boxes: Cast-iron box with top section and cover with lettering "WATER," bottom section with base to fit over valve and barrel approximately 5-inches (127 mm) in diameter and adjustable cast-iron extension of length required for depth of bury of valve. Provide steel tee-handle shutoff rod with each valve box. Include tee-handle, shutoff rod with one pointed end, stem of length to operate valve, and end fitting valve operating

C. Curb Stops 2-inches (DN 50) and Smaller: Bronze body, ground key plug or ball, 150 psig (1035 kPa) minimum pressure rating, wide tee head, with inlet and outlet to match service Service Baxes for Curb Stops: Cast-iron box with telescoping top section of length rec for depth of bury of valve. Include cover with lettering "WATER" and bottom section base of size to fit over curb stop and barrel approximately 3-inches (75 mm) in diameter.

 Provide steel tee-handle shutoff rod with each service box. Include tee-handle, shutoff rod with one pointed end, stem of length to operate curb stop, and slotted end fitting. E. Bronze, Nonrising Stem Gate Valves, 2-Inches (DN 50) and Smaller. MSS SP-80, Type 1, solid wedge, nonrising, copper-silicon-alley stem; Class 125, body and screw bonnet of ASTM B 62 cast brorze, with breaded or solider-joint ends. Include polyterfaultoroethylene (PTFE) - impregnated packing, brass packing gland, and malleable-iron handwheel. F Plastic Valves: Polyvinyl Chloride (PVC) Plastic with 150 psin (1035 kPa) min

Boll Volves: Boll volves shall be solld bronze meeting Federal Seeffloation WH-V-5-4, CLASS A, TMFL I. Size shall be the same size the up-streen side of the electric remote control volve morifold and in the same volve box. NOTE: Only one (1) ball volve required permontfold.

H. Stop and Waste Valves: Stop and waste valves shall be solid meeting Federal Specification WW-V-54, CLASS A, TYPE I. Pro 8' round valve box over the PVC stand pipe.

Drain Valves: All drain valves shall be %" brass full turn hall cocks and installed as ne on the Drawings. Valves shall be tested for 150 psi working pressure. This valve is to be

J. Valve Bank Isolation: Provide a domestic brass ball valve with a minimum 200 psi rating. Valve shall be an Apollo model 70 series or approved equal.

2.6 BACKFLOW PREVENTERS

Description: ASSE Standard backflow preventers, of size indicated for maximum flow rate and maximum pressure loss indicated.

Working Pressure: 150 psig (1035 kPa) minimum except where otherwise indicated.

2-inches (DN 50) and Smaller: Bronze body with threaded ends.

2/-inches (DN 65) and Larger: Bronze, cast-inon, steel or stainless-steel body with flanged ends. nanged ends.
 Interior Protective Coating: AWWA C550, epoxy coating for backflow preve with cast-iron or steel body.

Strainer supplied with and compatible for size and capacity with unit, on inlet, where strainer is indicated.

Reduced-Pressure-Principle Backflow Preventer: ASSE 1013, with (OS&Y) gate valves on inlet and outlet and strainer on inlet. Include test cocks and pressure differential relef valve with ASME A112.1.2 air-gap fitting lo

Pressure Loss: 15 psig (103 kPa) maximum, through middle third of flow range.
 Gate valves supplied with and compatible for size and testing of unit on inlet and or Valves Z-inches (DN 50) and smaller may be ball valves if these are unit manufactus standard valve for this application.

A. Description: Manufacturer's standard control vales for circuits, of type and size indicated, and

Manual Control Valves: MSS SP-80 Class 125 clohe valve

Key-Operated Manual Control Valves: MSS Sp.80. Class 125. plobe valves. fitted for

 Automatic Control Valves: Diaphragm-type, normally closed, with manual flow adjustment, and operated by 24-volt-a.c. solenoid. B. Control Valve Boxes: Carson Brooks Polyethylene (PE), or approved equal, box and cover.

Drainage Backfill: Cleaned 1/4" x #8 gravel or crushed stone, 6" deep Foundation: Provide a pressure treated foundation of 4'x4' lumber 3. Valve boxes shall be of sufficient size to house electric remote control valves with

similar operations. Boxes shall have lock down lids and shall meet ASTM D638 for tensile strength of 4,300 pounds per square inch. Limit the number valves per valve box. Service Boxes for Key-Operated Control Valves. Cast-iron box with telescoping top section of length required for depth of bury of valve. Include cover with lettering "WATER," and bottom section with base of size to fit over curb stop and barrel approximately 3-inches (76 mm) in diameter.

 Include valve key, 36-inches (915 mm) long with tee handle and key end to fit valve. 2.8 SPRINKLERS

Description: Manufacturer's standard sprinklers designed to provide uniform of entire area of soray shown on Drawings at available water pressure, as follows:

2. Pop-up, Spray: Fixed pattern, with screw-type flow adjustment and stainless steel

Pop-up, Rotary Spray: Gear drive, full-circle and adjustable part-circle type
 Bubblers: Fixed pattern, with screw type flow adjustment.

A. Description: Low-voltage controller system made for control of irrigation system automatic control valves. Controller operates on 120 volts a.c. building power system, provides 24 volts a.c. power to control valves.

B. Connect all valves to existing base line controlle

1. Feeder Circuit Cables: Type UF, No. 14 AWG minimum, between valves and controllers

2. Control Wiring: Rain Bird, MaxiCom approved signal communication wire, Type PE39 E. Valve wire sizing chart: See Appendix A at end of section.

A. Sleeve Tape: Provide 'Deep~1" Sleeve Magnets for marking irrigation

2.11 IDENTIFICATION

interfering with any future disassembly of fitting or piping. All main lines shall have a thrust block of poured concrete installed at each change direction. The thrust block shall be of sufficient size for the pipe involved and rest on undisturbed ground. Construct as follows:

STED 1

2.10 SLEEVES

Multiply the working pressure by the appropriate value shown in the following table to obtain total thrust in N (lb.):

elbow

PIPELINE THRUST FACTORS\*

Pipe :	ize	Dea	ad end 9	90° 4	5° 22	-
	in.	mm	or tee	elbo	w c	wodl
3"	89	9.80	13.90	7.51	3.82	
3 1/5"	102	12.80	18.10	9.81	4.99	
4"	114	16.20	23.00	12.40	6.31	
5"	141	24.70	35.00	18.90	9.63	
6"	168	34.80	49.20	26.70	13.60	
8"	219	59.00	83.50	45.20	23.00	
10"	273	91.50	130.00	70.00	35.80	

BEARING STRENGTH OF SOILS

STED 2

Soils and safe bearing loads | Ib/ft5 40.000 Cemented gravel and sand difficult to pick 4 000 200 Coarse and fine compact sand 3.000 Medium clay - can be snaded 2.000 Muck

See Soils Report for soil type

Divide the total thrust obtained in Step 1 by the bearing strength of the soil to get the are

SIDE THRUST ALTERNATIVE PROCEDURE mm 17 10 76 10 28 30 125.00 60.80 270.50 458.20

711 70 4 000 00 \* Rased on side thoust per 689 kPa (100 PSI) pressure per degree of deflection

NOTE: Multiply side thrust from table by degree of deflection times kPa (PSI) divided by 100

273 160.00

A. Investigate and determine available water supply, water pressure and flow characteristics B. Prior to installation of irrigation system, the contractor must verify the supply pressure at the work sits. If there is a failure to obtain the needed pressure or if an excess pressure situation exists for normal operation, the contractor must contact the owner for any adjustments to the resion, and any installation done prior to notification of owner shall be done at the expense of the contractor.

A. Set stakes or flags to identify proposed sprinkler locations. Obtain Architect's approval

A. Cutting and patching of asphalt paving is specified in Division 2 Section "Hot-Mixed Asphalt Paving."

D. Circuit Pining: Use the following:

3.5 JOINT CONSTRUCTION

A. Refer to Part 2 of this Section for detailed specifications for pipe and fittings products listed below. Use pipe, tube, fittings, and joining methods according to the following applications. Piping in pits and aboveground may be joined with flanges instead of joints indicated.

B. Use pipe, tube, fittings, and joining methods according to the following applications

C Pressure Dining Underground: Use the following 3-inches (DN 80) and Smaller: ASTM D 1785, Schedule 40, polyvinyl ch plastic pipe; ASTM D 2466, Schedule 40, PVC plastic, socket-type pipe

2. 3-inches (DN 80) and Larger: ASTM D 2241, Class 200, polyvinyl chloride (PVC) plastic

All Sizes: ASTM D 1785, Schedule 40, polyvinyl chloride (PVC) plastic pipe; ASTM D 2466, Schedule 40, PVC plastic, socket-type fittings; and solvent-cemented joints.

E. Branches and Offsets at Sprinkler and Devices: ASTM D 1785, Schedule 80, polyvir chloride (PVC) plastic pipe with threaded ends; ASTM D 2464, Schedule 80, PVC plast threaded films: and threaded loints.

G. Sleeves: All sleeves shall be a minimum of 4" diameter

ASTM D 1785, Schedule 40, polyvinyl chloride (PVC) plastic pipe; ASTM D 2466, Schedule 40, PVC plastic socket, one fittings; and solvent, remented in ints All sleeves shall be marked by duct toping a "Deep~1" Magnate on both ends of the sleeve at all locations.

 Flanged Joints: Align flanges and install gaskets. Assemble joints by sequencing bolt tightening. Use lubricant on bolt threads. B. Threaded Joints: Thread pipes with tapered pipe threads according to ASME B1.20.1, apply tape or joint compound, and apply wrench to valve ends into which pipes are being threaded.

C. Polyvinyl Chloride (PVC) Pining Gasketed Joints: Construct joints between AWWA-type, cast-iron valves and NPS PVC pipe; with elastomeric seals that fit pipe diameter and valve ends; and lubricant, according to ASTM D 3139. D. Polyvinyl Chloride (PVC) Piping Solvent-Cemented Joints: Construction joints according to 2672 and ASTM D 2855.

Handling of Solvent Cements, Primers, and Cleaners: Comply with pri F 402 for safe handling when joining plastic pipe and fittings with solve

C. Install piping at a uniform slope of 6-inches per 100-feet (1:200) minimum, down to drain

D. Install components having pressure rating equal to or greater than system operating

G. Install fittings for changes in direction and branch connections. H. Piping Connections: Except as otherwise indicated make piping connections as specified below.

Install flanges, in piping 2%-inches (DN 65) and larger, adjacent to flanged w final connection to each piece of equipment having flanged pipe connection.

3. Install dielectric fittings to connect piping of dissimilar metals.

EWAY , UT 84117  $\circ$ GATE CITY, 0 DINGS ᅙ

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MHTN

ARCHITECTS

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City Engineer

City of South Jordan

Approved 01/10/2023

City Engin

JORDAN C 10096 S. SOUTH J

TO LANDSCAPE N

CONSTRUCTION DOCUMENTS IRRIGATION **SPECIFICATIONS** 

LI502

- A. Trenches shall be dug as wide and deep as necessary to properly place the sprinking system according to the requirements herein. Any rock uncovered in this excavation shall not be left in the backfill. All excess rock shall be removed from the step this Contractor and legally disposed of off the property. All trenches shall be backfilled and compacted to insure no setting of the surface, after the lam is plant.
- B. If backfill soil is rocky or lumpy, protect the pipe and the pipe conduit with 8" of sand or loose rock free, soil under, over and on sides of pipe. Avoid putting large rocks against pipe during backfilling operation. See detail.
- D. This Contractor, in placing the sprinking lines, etc., may uncover material not suitable for festated gading. This material shall be removed from the site by this Contractor. After the original condition, using additional proposal strip Contractor's operate. If this is necessary. The upper 6° of topsoil removed in the excussion of terriches for pipeline shall be conserved and lept separate from subcolo and international deviation mining with other soil.
- E. Trenches where more than one pipe is to be installed, a distance of 6" is to be maintained between each pipe. No exceptions.
- F. All trenches are to be 12" away from all curbs, buildings and sidewalks. No exceptions

minimum 6 cubic feet.

- A. Install underground polyvinyl chloride (PVC) plastic pipe according to ASTM D 2774.
- B. Lay piping on solid sub-base, uniformly sloped without humps or depres Slope circuit piping down toward drain valve minimum of ½-inch in 10-feet (1:240).
- 10-reet (1:240).

  2. Install polywhyl chloride (PVC) plastic pipe in dry weather when temperature is above 40 deg. F (4 deg. C). Allow joints to cure at least 24-hours at temperature above 40 deg. F (4 deg. C) before testing, unless otherwise recommended by manufactures.
- C. Drain Pockets: Excavate to sizes indicated. Backfill with cleaned gravel and crushed stone, graded from 3-inches (75 mm) to 5-inch (19mm) minimum, drain material to 12-inches (300 mm) below grade. Cover drain material with sheet of ASTM D 266. Type III, asphalt-alturated felt and backfill remainder with excavated material. Drain pocket to be
- D. Minimum Cover: Provide following minimum cover over top of buried piping
- Pressure Piping: Greater depth of minimum of 18-inches (600 mm) below finished grade.
- Circuit Piping: 12-inches (380 mm).
- 3. Drain Piping: 12-inches (380 mm).
- 4. Sleeves: 18-inches (600 mm).
- E. Install piping under sidewalks and paving in sleeves.
- F. All pipe threads shall be sealed with Teflon tape and pipe thread compound
- G. All plue joints to be set 24 hours prior to pressurization
- A. Flash and test each zone after installation of new piping, swing pipe and prefab swing joint Flash and test each zone after instalation on new piping, swing pipe and pretad swing jorn, but before installation of heads and before backfilling is complete. Open control valve completely and flush with a full head of water. Each automatic valve shall then be disassemibled, in specied for rocks, cleaned and re-assembled. Install heads and test each zone for coverage.
- B. Testing will be performed after completion of each circuit and again after the completion of the entire system. All repair work will be made at the contractor's expense.
- 3 10 DACKELOW DDEVENTED INSTALLATION
- A. Install backflow preventers of type, size, and capacity indicated. Include valves and test cocks. Install according to plumbing code and health department authorities with jurisdiction.
- B. Install pressure-type vacuum breakers minimum of 12-inches (300 mm) above downstream
- C. Do not install bypass around backflow preventer.
- D. Do not install backflow preventers with drains or vents in pits or areas subject to flooding.
- E. Support backflow preventers, valves, and piping on 3,000 psi (20.7 MPa) minimum, Portland-Cement-Mix concrete piers.
- A. Drawings indicate valve types to be used. Where specific valve types are not indicated, following requirements apply:
- Buried Valves 3—inches (DN 80) and Larger: AWWA, gate valves, non-rising stem, with stem nut and valve box. Buried Valves 2—inches (DN 50) and Smaller: Branze—body, curb stop, with tee head, service box and shutoff rad.
- 3.12 VALVE INSTALLATION

- Install valves and SCH 80 polyvinyl chloride (PVC) pipe with restrained, gasketed joints
- Install all valves with SCH 80 PVC pipe running through the manifold. SCH 80 PVC to extend to the outside edge of the valve box on each side.
- B. Curb Stops: Install underground curb stops in service boxes.
- D C. Control and Ball Valves: Install in valve control valve boxes, arranged for easy adjustment and removal. Install unions with one (1) on upstream side at each valve manifold.
- D. Control valves shall be located as close as possible to where shown on drawings. Avoid locating valves in areas of high pedestrian or vehicular traffic.
- E. Provide isolation valve at all valve bank locations.
- 3.13 VALVE WIRING
- A. Connect all valves to the irrigation control system as per manufacturer's recommendation: Valve wire installations wiring shall be enclosed in adequate size PVC electrical conduit
- 2. All splices shall be enclosed in a plastic valve box and noted on "as built" drawings
- At Y in two wire paths "Paige Decoder cable fuse device" shall be installed or
- All splices shall be enclosed in a plastic valve box and noted on "as built" drawings.
- C. Wires run in same trench as main pressure line or any other pipe shall be set a minimum of 41 from pipe to allow for maintenance access. Wire shall run parallel to pipe and not way around or go under pipe unless care is taken to allow clearance for maintenance access.
- D. Grounding shall be done according to manufactures specifications
- 1 Refore the controller Every five valves in field or 500ft.
- 3 Install line surge protector at termination of two wire nath
- Each installed grounding system shall maintain a maximum ground resistance of 10 ohms, or less
- Refer to the decoder manufacturer recommendations and documentation for proper specifications on grounding systems installation and grounding system design
- 6. Grounding rods shall be installed in plastic valve box and noted on "as built" drawings.
- A grounding test shall be performed on all grounding elements paid for by the Contractor.

A. Sprinklers: Flush circuit piping with full head of water and install sprinklers after

Install lawn sprinklers at manufacturer's recommended heights

Locate part-circle sprinklers to maintain a minimum distance of 12-inches (400 mm) from walls and 2-inches (50 mm) from other boundaries, unless otherwise indicated.

- 8. All sprinkler heads and valve boxes shall be set flush with finish grade unless otherwise specified. Contractor shall insure tops of heads and boxes remain at finish grade, and adjust as required. If any settlement occurs within the 1 year warranty period, the contractor will be required to place such areas back in satisfactory condition, using additional topsoil and new soil if necessary.
- 3.15 AUTOMATIC CONTROL SYSTEM INSTALLATION
- A. Install controllers according to manufacturer's written instructions and as indicated.
- B. Pedestal mount irrigation controller in the location shown and as directed by the Owner as
- C. Run one extra wire from the adjacent controller to each group of valves for future use and ship into the valve hox

- A. Connect piping to sprinklers, devices, valves, control valves, specialties, and accessories
- B. Connect water supplies to irrigation systems. Include backflow preventers on potable water supplies. Include automatic filters on secondary water supplies.
- C. Electrical Connections: Connect to power source, controllers, and automatic control valves
- D. Minimum requirements for electrical installations are specified in Division 16.
- E. Ground systems according to Division 16 Section 'Grounding
- 3.47 FIELD OUR UTV CONTROL
- Testing: Perform hydrostatic test of piping and valves before backfilling trenches. Piping may be tested in sections to expedite work.
- ce resous as occurre as expedite work.
  1. Cap and subject the piping system to a static water pressure of 50 psig (345 kPa) above the operating pressure without exceeding pressure rating of piping system materials. Isolate test cource and allow to stand for 4-hours. Leaks and loss in test pressure constitute defects that must be repaired.
- Repair leaks and defects with new materials and retest system or portion thereof until satisfactory results are obtained.
- Notify Architect 24 hour in advance of pressure testing so test may be observed

#### 3.18 CLEANING AND ADJUSTING

- A. Flush dirt and debris from piping before installing sprinklers and other devices.
- A. Adjust automatic control valves to provide flow rate of rated operating pressure required for
- B. Carefully adjust lawn sprinklers so they will be flush with, or not more than ½-inch (13 mm) above, finish grade after completion of landscape work.
- C. Adjust settings of controllers and automatic control valves

#### 3.19 COMMISSIONING

- Starting Procedures: Follow manufacturer's written procedures. If no procedures are prescribed by manufacturers, proceed as follows:
- 1. Verify that specialty vales and their accessories have been installed correctly and
- Verify that specified test of piping are complete
- 3. Check that sprinklers and devices are correct type.
- Check that damaged sprinklers and devices have been replaced with new materials
- Check that potable water supplies have correct type backflow preventers.
- 6. Energize circuits to electrical equipment and devices.
- Operational Testing: Perform operational testing after hydrostatic testing is completed, backfill is in place, and sprinklers are adjusted to final position.
- C. Provide irrigation system layout and diagram in CADD format with water zones clearly identified. Layout to be color coded with a maximum of 5 colors for easy legibility. Record water budget for each irrigation control zone and current settings. Provide laminated copy and mount near controller. Verify location with Architect.

- Demonstrate to Architect that system meets coverage requirements and that automatic controls function properly.
- Demonstrate to Owner's maintenance personnel operation of equipment, sprinklers, specialties, and accessories. Review operating and maintenance information.
- C. Provide 7-days' written notice in advance of demonstration
- D. System Operation Test / Substantial Completion Inspection
  - During the Substantial Completion Inspection, the entire system, both electric and hydraulic, will be tested in the presence of the Landscape Architect and the Owner's Representative to insure COMPLETE coverage of all areas to be watered. Any deficiencies identified at this time will require revisions by the Contractor at the Contractor's expense.

A. All irrigation systems are typically winterized October 15<sup>th</sup>. If the Substantial Completion Certificate has not been issued by this date, it will be the responsibility of the Contractor to work with the Owner to winterize the system. The Contractor to the be responsible to assist in the activation of the system in the Spring to insure there are no problems.

APPENDIX A
ALLOWARIJE AMERIAGE DISTANCES FROM CONTROLLER TO VALVES

744	ALLOWABLE AVERAGE DISTANCES FROM CONTROLLER TO VALVES																	
*	Vira Signs																	
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tav	10 10 10 14 14 14 12 12 12 13 10 10	95.05.00.00.00	2.90 2.90 3.40 3.70 4.90 5.40 6.30 7.30 8.300 TU70	UNO 1,800 1,900 1,900 2,900 2,900 2,900 2,900 4,710 6,900	700 1/100 1/200 1/200 1/200 1/200 1/200 1/200 1/200 1/200 1/200 1/200	590 730 800 990 U80 U80 U80 U80 U80 U80	2,777 3,400 3,979 4,390 5,400 8,300 8,360 11,310 10,810	1,900 1,900 1,900 2,900 2,900 3,900 4,900 6,000	109 1,09 1,09 1,46 1,46 1,56 2,20 2,00 3,60 4,60 4,60	990 900 1,000 1,000 1,000 1,000 1,000 2,140 2,140 2,140 2,140	5,960 F,960 8,579 10,790 10,390 10,477 17,780 21,390 27,910 20,300	2,900 3,979 4,200 5,300 6,600 7,700 6,300 10,900 10,900 10,900 10,900	1,886 2,466 3,886 4,476 8,706 8,706 8,706 8,706 7,006 11,106 11,106	1,490 1,800 2,540 2,560 3,360 4,290 5,270 4,600 8,800 8,800	4/50 5,800 7,500 8,200 18,200 10,200 10,200 10,200 10,200 20,400	2,979 2,970 3,400 3,700 4,600 6,000 7,300 8,300 11,700	1,580 1,980 2,980 2,980 3,980 3,980 4,980 6,980 7,980	1,100 1,600 1,000 2,710 2,700 3,000 3,000 4,700 8,800

**AUTOMATION** SILVERSTONE

MHTN

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CONSTRUCTION DOCUMENTS IRRIGATION **SPECIFICATIONS** CONT.

LI503

City Engineer

City of South Jordan

Approved 01/10/2023

City Engineer

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of the contract, including General an Conditions and Division 1 Specification Sections, apply to this Section

- A. This Continuing
- Field verify capacity of the existing irrigation system complete including but not limited to flow, capacity, controller operation and etc.
- C Delated Sections: The following Sections contain requirements that relate to this Section
- Section 011000 Summary.
   Section 329301 Landscape Planting.
   Section 328400 Inrigation System.

#### 1.3 DEFINITIONS

- A. Piping sizes used in this Section are normal pipe size (NPS) in inches. Tube sizes are standard size in inches. Equivalent SI (metric) sizes are indicated in millimeters (mm) in
- Supply Piping: Piping from water source to connection to irrigation system pressure piping.
   Piping is under same pressure as water supply. Piping in this category is not included in this Section.
- Pressure Piping: Piping downstream from supply piping to and including control valvi Piping is under irrigation system pressure. Piping in this category includes pressure regulators, water meters, and backflow preventers, when used.
- Circuit Piping: Piping downstream from control valves to irrigation system sprinklers, emitten devices, and drain valves. Piping is under pressure (less than pressure piping) during flow.
- E. Control Valve: Manual or automatic (electrically operated) valve for control water flow to irrigation system zone, including isolation or zone valves.
- Location of Drip line, Emitters and Devices: Design location is approximate. Make minor adjustments necessary to avoid planting and obstructions such as signs and light standards

- General: Submit the following according to the Conditions of the Contract and Division Specification Sections.
- B. Product data including pressure rating, rated capacity, settings, and electrical data of selected models for the following:
- Integral pressure-compensating, continuously self-cleaning, check valve and anti-drain
- disper line. 2 Pressure regulators.
  3. Valves, including general-duly, underground, manual and automatic control, and quick-coupler types, and valve boxes.
  4. Sprinklers and devices.
  5. Flush Valves.
- . Filters. Air/Vacuum Relief Valves
- 8. Pipe, including sleeves, lateral, supply, conduit and drain.
- C. Maintenance data for inclusion in 'Operating and Maintenance Manual' specified in Division 1 Section "Project Closeout" for the following

- Dripper line.
   Pressure regulators.
   Valves, including general-day, underground, manual and automatic control, and quick couplet lyses, and valve boxes.
   Sprinters and orderice.
   Plant Valves.
   Filters.

- Air/Vacuum Relief Valves
- 8. Pipe, including sleeves, lateral, supply, conduit and drain

- Comply with requirements of utility supplying water for prevention of backflow and backsinhonance.
- C. Installer Qualifications: Engage an experienced installer who has completed minimum of 6 irrigation systems similar in material, design, and extent to that indicated for Project that have resulted in construction with a record of suscessful in-service performance.
- The successful contractor shall, at the time of bid and award, have at least one register CIC (Imigation Association Certified Imigation Contractor) with a current certification and who is a direct employee of the irrigation Contractor. The CIC shall meet with the University Landscape Maintenance Department on site at least weekly to review the progress of the Work.
- D. Electrical Components, Devices and Accessories: Listed and labeled at defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- E. Irrigation Components, Devices and Accessories: Listing, Label, or Other Marking: Th manufacturer's markings and labels to be clearly stamped on all equipment, specialties, and accessories made to specified standards.
- F. Product Options: Inrigation system piping, specialties, and accessories are based on specific types, manufacturers, and models indicated. Components with equal performance characteristics produced by other manufacturers may be considered, provided deviations in dimensions, operation, and other characteristics do not change design concept or intended performance as judged by the Architect, unless noted "No Substitute." The burden of proof. of product equality is on the Contractor. Refer to Division 1 Section "Product Substitutions will be reviewed after bids have been received by Owne
- 1.7 PROJECT CONDITIONS
- Perform site survey, research public utility records, and verify existing utility locations. Verify that irrigation system piping may be installed in compliance with original design and referenced standards.
- B. Site Information: Reports on subsurface condition investigations made during design of the Project are available for informational purposes only, data in reports are not intended as representations or warranties of accuracy or continuity of conditions (between soil borings). Owner assumes no responsibility for interpretations or conclusions drawn from this information.
- Maintain uninterrupted water service to building during normal working hours. Arrange for temporary water shutoff with Owner.

- A. Deliver extra materials to Owner. Furnish extra materials matching products installed described below. Package them with protective covering for storage and label clearly describing contents.
  - 1. Dripper Tube: Furnish quantity of units equal to 10% of amount of each type ins
- A. During the period of one (1) year from and after the final acceptance of the completed Louing late to the contractor shall all all so one expense, make all needed repairs or replacement due to the Contractor shall all so one expense, make all needed repairs or replacement due to detective workmanlport or materials which in the judgement of the Owne or Owner's representative, shall become necessary during such period. If, within seven (7) calendar days after making of the written such expenses or of the contractor or the contractor to shall be making or of the contractor shall be contractor to formation of the such as the contractor shall contractor that the contractor or placement, the Contractor shall contractor to contractor shall contract the contractor of contractor shall contract the contractor of contractor shall contract the contractor contractor shall contract the contractor contractor

- neglect to make repairs. Owner may make such repairs at the Contractor's expense. In the case of emergency where, in the judgement of the Owner, delay could cause serious loss, the case of emergency where, in the judgement of the Owner, delay could cause serious loss, the program yating remained, may present only the program of the Owner or program of the Owner or
- The guarantee shall be in the form of a letter from the Contractor addressed to the Own
   The letter shall incorporate the language stated above and be signed by an authorized
   officer/anent or Owner of the Contractor
- C. During the guarantee period, the Contractor will drain the system in the fall and put th system back into operation in the spring. This work shall be done in the presence of to Owner's representative and maintenance personnel.
- A. Any deviation from plan layout should be indicated on the final "Record" Drawings. This Contractor shall make an exact measured and dimensioned drawing showing locations piping, wiring, control, valves and quick coupler valves.
- B. Record Drawings shall be furnished to the Landscape Architect at the time of Substantial Completion Inspection before a letter of Substantial Completion for the irrigation sprinkle system will be issued.
- C. The Contractor shall supply the Landscape Architect with record drawing information in AutoCAD format before final acceptance of the irrigation system.
- 1.12 PRODUCT DELIVERY STORAGE AND HANDLING
- er irrigation system components in iners with labels intact and legible.
- Deliver plastic piping in bundles, packaged to provide adequate protection of pipe ends, both threaded or plain.
- C. Store and handle materials to prevent damage and deterioration

- Pressure Regulators
   Rain Bird Sprinkler Mfg. Corp.
   Netafim USA
- c. Hunter Industries
- 2 Automatic Control Valves
- . Rain Bird Sprinkler Mfg. Corp. (Design Standard)
- Rain Bird Sprinkler Mig. Corp. (Design Stands ontrol Valve Boxes
   Ametek by Plymouth Products Div., AMETEK Brooks Products, Inc., Polyplastics Div.
   Carson Oldcastle.
- Sprinklers Hunter Industries
- Rain Bird Sprinkler Mfg. Corn

- Hunter Industries
   Rain Bird Sprinkler Mfg. Corp. Netafim USA
- 6. Flush Valves Hunter Industries
- Rain Bird Sprinkler Mfg. Corp

- Rain Bird Sprinkler Mfg. Corp.
- a. Pacific Western Extruded Plastics Co.
- b. Eagle Pacific Industries, Inc. c. J-M Manufacturing Company, Inc.

- Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube materials specified below are used.

- Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube fitting materials specified below are used.
- Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type and ASTM D2464, Schedule 40, threaded fittings.
- C. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, soci
- 2.4 JOINING MATERIALS
- Refer to Division 15 Section "Basic Mechanical Materials and Methods" for joining materials not included in this Section.
- B. Solvent Cement: ASTM F656 primer and ASTM D2564 solvent cement in color other than
- A. General: Valves are for general-duty and underground applications. Refer to "Valve Applications" Article for locations of various valve types specified in this Article. Refer to "Control Valves" Article for control valves and accessories and "Backflow Preventers" Article
- C. Ball Valves: Ball valves shall be solid bronze meeting Federal Specification WW-V-35C, TYPE II, COMPOSITION: BZ, STYLE: 3. Size shall be the same size as the main line on which it is installed. Valves shall be installed on the up-stream side of the electric remote control valve manifold and in the same valve box. NOTE: Only one (1) ball valve required per manifold.
- 2.6 CONTROL VALVES
- A. Description: Manufacturer's standard control vales for circuits, of type and size indicated, and as follows:
  - Provide cast-bronze bodies, unless otherwise indicated Manual Control Valves: MSS SP-80, Class 125, globe valves.
     Key-Operated, Manual Control Valves: MSS Sp-80, Class 125, globe valves, fitted for
- Automatic Control Valves: Diaphragm-type, normally closed, with manual flow adjustment, and operated by 24-volt-a.c. solenoid. Hose Bibbs: Factory-fabricated assembly. Include coupler water-seal valve. Threads for garden hose on outlet; hose bibb to be in upright position.
- B. Control Valve boxes: Polyethylene (PE), acrylonitrile-butadiene-styrene (ABS), fiberglass polymer concrete, or precast concrete box and cover. Size as required for application. 1. Drainage Backfill: Cleaned gravel or crushed stone, graded form 3-inches (75 mm)

- maximum to %-inch (19 mm) minimum Valve boxes shall be of sufficient size to house two (2) electric remote control valves with unions, and still allow room for maintenance without having to excavate or perform will dinote, and set allow four for mantenance will do that a state of perform similar operations. Boxes shall have lock down lids and shall meet ASTM D638 for tensile strength of 4,300 pounds per square inch.
- 2.7 SPRINKLERS
- Description: Manufacturer's standard 12° pop up sprinklers used as a flag to indicate that the drip system is operating, as follows:
- Pop-up, Spray: Fixed pattern, with screw-type flow adjustment and stainless steel retraction spring.
- 2.8 DRIP LINE AND INTEGRAL DRIPPER LINE COMPONENTS

- 1. 17mm fittings: All connections shall be made with manufacturer approved 17mm insert fittings.

  2. Sol. Stages. All on-surface/under mulch dripline installations shall be held in place with 5.05 Stagles spaced everly every 3" to 5" on certifer, and with these staples on each change of localization of the content of the stage of the content of the

# DADE 2 EXECUTION

- 3.1 EXAMINATION
- A. Investigate and determine available water supply, water pressure and flow characteristics
- Refer to Part 2 of this Section for detailed specifications for pipe and fittings products below. Use pipe, tube, fittings, and joining methods according to the following applic Piping in pits and aboveground may be joined with flanges instead of joints indicated.

- D. Branches and Offsets at Sprinkler and Devices: ASTM D 1785, Schedule 80, polyvinyl chloride (PVC) plastic pipe with threaded ends; ASTM D 2464, Schedule 80, PVC plastic, threaded filtings; and threaded joints.
- E. Sleeves: ASTM D 1785, Schedule 40, polyvinyl chloride (PVC) plastic pipe; ASTM D 2466, Schedule 40, PVC plastic, socket-type fittings; and solvent-cemented joints.
- A. Polyvinyl Chloride (PVC) Ploing Solvent-Cemented Joints: Construction joints according to
  - ASTM D 2672 and ASTM D 2855. Handling of Solvent Cements, Primers, and Cleaners: Comply with procedures in ASTM F 402 for safe handling when joining plastic pipe and fittings with solvent cements.
- A. General Locations and Arrangements: Drawings indicated general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate frition loss, and nother design considerations. Install piping as indicated, except where deviations to layout are approved on coordination drawings.
- B. Install piping at a uniform slope of 6-inches per 100-feet (1:200) minimum, down to drain
- Install components having pressure rating equal to or greater than system operating pressure.
- D. Install piping free of sags and bends

3.4 PIPING SYSTEMS - COMMON REQUIREMENTS

- F. Install fittings for changes in direction and branch connections
- install unions, in piping 2-inches (DN 50) and smaller, adjacent to each valve and at final connection to each piece of equipment having 2-inch (DN 50) or smaller threaded pipe

- A. Trenches shall be dug as wide and deep as necessary to properly place the sprinkling system according to the requirements herein. Any rock uncovered in this excavation shall not be left in the backfill. All excess rock shall be removed from the site by this Contractor and legally disposed of off the property. All trenches shall be backfilled and compacted to
- B. If backfill soil is rocky or lumpy, protect the pipe and the pipe conduit with 8° of sand or loose, rock free, soil under, over and on sides of pipe. Avoid putting large rocks against pipe during backfilling operation.
- shall be installed after topsoil is in place and properly graded. This Contracts, in placing the specialising lines, etc., may encoure material or suitable for featured grading. This material shall be encoured from the safe by the Constants, Archive featured products of the lines, the finished grading shall be smoothed over and restored to its original condition, using additional begood at this Contractor's express, if this is necessary. The upper if of topoul removed in the excavation of terriches for pipeline shall be conserve and lest perspect from subpoil and restalled without mixing with other soil.
- E. Trenches where more than one pipe is to be installed, a distance of 6° is to be maintained between each pipe.

- A. Install underground polyvinyl chloride (PVC) plastic pipe according to ASTM D 2774.
- B. Lay piping on solid sub-base, uniformly sloped without humps or depression Slope circuit pioing down toward drain valve minimum of 1/2-inch in 10-feet (1:240)
- sope circuit pring own toward oran valve minimum of y-anch in 10-48 (12-40).
   Installi polyvinyl chloride (PVC) plastic pipe in dry weather: temperature is above 40 deg. F (4 deg. C). Allow joints to cur least 24-hours at temperature above 40 deg. F (4 deg. C) be testing, unless otherwise recommended by manufacturer.
- C, Minimum Cover: Provide following minimum cover over top of buried pipin
- . Lateral Line Piping: 16". !. Main Line Pipe: 24" I. Inline Emitter Tubing: 2"
- A. Install all drip line as indicated on drawings. Use only Teflon tape on all threaded B, When installing drip line on-surface, install soil staples as listed below
- Sand Soil: One staple every three (3') feet and two (2) staples on each change of direction (tree, elbow, or cross).

- C. Cap or plug all openings as soon as lines have been installed to prevent the entranson materials that would obstruct the pipe. Leave in place until removal is necessary for
- D. Install two Netafim or approved equal operation flags, per each drip line valve. Netafim operation flags shall be used to notify and indicate operation of the drip system.

- E. Thoroughly flush all water lines before installing valves, emitters and other hydrants.
- F Test in accordance with Manufacturers recommendation
- Valves: Install underground valves in valve boxes or pits.
   Install valves and polyvinyl chloride (PVC) pipe with restrained, gasketed joints
- Control and Basil Valves: Installal in valve control valve boses. After the devices in the manifold shall be appeared by the devices and the manifold shall be appeared by the devices and the devices are fully operational and accessible for a support of the devices and accessible for a support of the devices and accessible for the support of the devices and accessible for a support of the devices and accessible for the support of the devices and accessible for a support of the devices and accessible for accessible for a support of the devices and accessible for a support of the devices and accessible for accessible for a support of the devices and accessible for accessible for a support of the devices and accessible for acce
- Disc filter with 140 mesh disc filter rings, of appropriate size Inline pressure regulator valve of appropriate size and flow.
- 6 Manifold union
- Sprinklers: Flush circuit piping with full head of water and install sprinklers after hydrostatic test is complete.
   Install shrubbery sprinklers at heights indicated.

- A. All lines shall be sloped to drain. A minimum of drains should be used. Extra drain valves necessitated by unforeseen field conditions to make the system drain shall be provided by the Contractor and approved by the Landscape Architect.
- B. A suitable gravel sump shall be provided for each drain, minimum of 6" below the finished grade. A sump shall be a 24" diameter hole filled with gravel 2" above and 12" below the drain.

#### 3.11 DRIP FILTERS:

- Filters shall be installed immediately after the electric valve and before
  the pressure regulator. The main body of the filter shall be installed
  at a slight downward angle so the dirt and debris will collect in the
  removable cop. An appropriate valve box shall be used to insure easy
  access to the filter for cleaning purpose.
- 3.12 DRIP SYSTEM PRESSURE REGULATORS:
- A. Due to the high flows involved with a Techline system compared to other drip systems it is important to only use the Netafim high flow (20 CPM) 45 PSI regulators. The regulators shall be installed after the filters and must not be buried, but shall be accessible for inspections and maintenance.

#### 3.13 MANUAL FLUSH VALVES:

- A. These valves serve to provide flushing during installation and in case of major breaks or contaminations in the system. They shall be installed one for at each dead and and jow point in the system. Line flush valves shall be placed in a 10 round box, stabilized on brick and with a 12' gravel sump below each valve.
- 3.14 FIELD QUALITY CONTROL
- Testing: Perform hydrostatic test of piping and valves before backfilling therches. Piping may be tested in sections to expedite work.

  In a static water pressure of 60 ping (345 8/b) above. The operating pressure, but not less hann 150 ping without cooseding pressure region priping system materials. Isolate test source and allow to stand for 4-hours. Leaks and loss in test pressure constitute declarate than state brequest.
- 2. Repair leaks and defects with new materials and retest system or portion thereof until
- Notify Architect and University Landscape Maintenance Department Representative 24 hours in advance of pressure testing so test may be observed.
- A. Flush dirt and debris from piping before installing sprinklers and other devices. B. Adjust automatic control valves to provide flow rate of rated operating pressure required for
- 3.16 COMMISSIONING
- Verify that specialty vales and their accessories have been installed correctly and Verify that specified test of piping are complete
- Check that damaged drip tube, emitters and devices have been replaced with new

- A. Demonstrate to Architect that system meets coverage requirements and that automatic

C. Provide 7-days' written notice in advance of demonstration

controls function properly.

AUTOMATION **ERSTONE** 

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MHTN

ARCHITECTS

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JORDAN C

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CONSTRUCTION DOCUMENTS 12.02.2022

DRIP **IRRIGATION SPECIFICATIONS** 

LI504

City Engineer

City of South Jordan

Approved 01/10/2023

City Engineer



# SILVERSTONE AUTOMATION HOLDINGS10 LLC

# 10096 S. JORDAN GATEWAY SOUTH JORDAN CITY, UT 84117



CONSTRUCTION DOCUMENTS 12.02.2022 LANDSCAPE PLAN

LP100

City Engineer City of South Jordan Approved 01/10/2023

# REFERENCE NOTES SCHEDULE

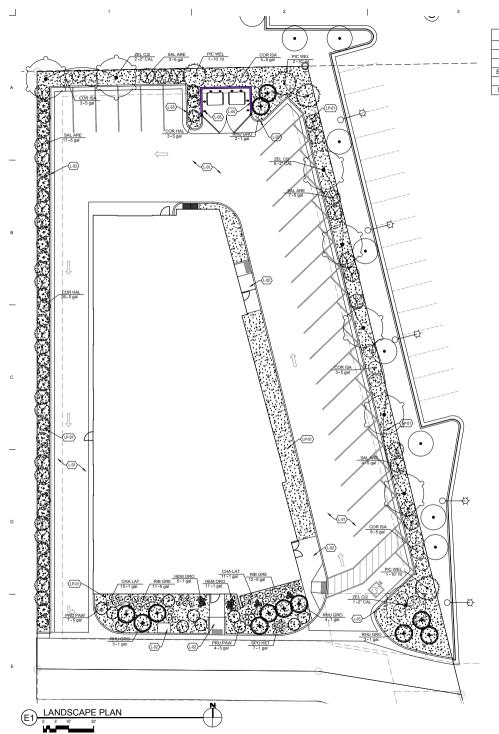
STONE MULCH, 3/4"-1-1/2" CRUSHED AGGREGATE 3" DEEP

VIDED	
12	
4	
8	

SYMBOL LP-01 · . .

BOLLARD TYP PLANTING NOTES DESCRIPTION

LANDSCAPE CALCULATIONS								
TOTAL LANDSCAPE AREA	5,955 SF							
		REQUIRED	PROVIDED					
TOTAL TREES (1/500 SF REQ.)		12	12					
VERGREEN TREES (30% REQ.)		4	4					
DECIDUOUS TREES		8	8					
SHRUB COVERAGE (50% REQ.)		2,978 SF	3,005 SF					



1. ALL PLANTS SHALL CONFORM TO THE MINIMUM ALL PLANTS SHALL CONFORM TO THE MINIMUM STANDARDS OF HEIGHT, SIZE, CALIPER AND ETC. OF THE AMERICAN ASSOCIATIONS OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".

 THIS CONTRACTOR SHALL SPREAD TOPSOIL TO A DEPTH OF 6" IN ALL LAWN PLANTING AREAS AND 12" IN ALL SHRUB AND PERENNIAL BEDS

3 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING FROM THE SITE ALL SOIL EXCAVATED FROM TREE PITS.

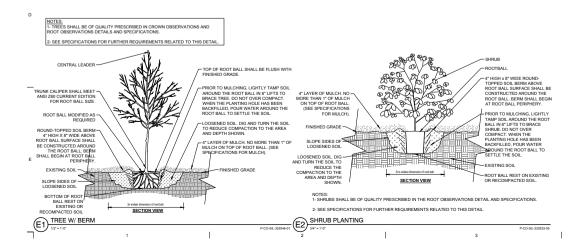
ALL MOWSTRIPS ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM SYSTEM AND THE LANDSCAPE PLANTING.

5. INSTALL MULCH IN ALL SHRUB PLANTING BEDS AFTER PLANT MATERIAL INSTALLATION

6 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE REQUIRED AMOUNT OF TOPSOIL TO COMPLETE THE PROJECT. NEW TOPSOIL SHALL MATCH QUALITY AND TEXTURE OF THE EXISTING TOPSOIL ON SITE.

# PLANT SCHEDULE

PLANT	SCHEL	JULE			
TREES	CODE	BOTANICAL NAME	COMMON NAME	CAL.	REMARKS
	EXI RSX	EXISTING TREE	EXISTING TREE	2" CAL	
$(\cdot)$	PIC WEL	PICEA OMORIKA 'WELLS RIVERSIDE'	RIVERSIDE SERBIAN SPRUCE	10" HT	
	ZEL CI2	ZELKOVA SERRATA 'JFS-KW1' TM	CITY SPRITE ZELKOVA	2" CAL	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
<b>:</b> 3	COR HAL	CORNUS ALBA 'BAILHALO' TM	IVORY HALO DOGWOOD	5 GAL	
<u>+</u>	COR ISA	CORNUS SERICEA 'ISANTI'	ISANTI REDOSIER DOGWOOD	5 GAL	
<b>#</b>	HEM ORO	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL.	
$\odot$	PRU PAW	PRUNUS BESSEYI 'PAWNEE BUTTES'	SAND CHERRY	5 GAL	
⊙	RHU GRO	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	1 GAL.	
$\odot$	RIB GRE	RIBES ALPINUM 'GREEN MOUND'	GREEN MOUND ALPINE CURRANT	5 GAL	
$\langle \mathfrak{D} \rangle$	SAL ARE	SALIX ARENARIA	SILVER CREEPING WILLOW	5 GAL	
GRASSES	CODE	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
0	CHA LAT	CHASMANTHIUM LATIFOLIUM	WOOD OATS	1 GAL.	
0	SPO HET	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	1 GAL.	



City Engineer City of South Jordan Approved 01/10/2023 

10096 S. JORDAN GATEWAY SOUTH JORDAN CITY, UT 84117 HOLDINGS10 LLC

MHTN

ARCHITECTS

MHTN Architects, Inc.

SILVERSTONE AUTOMATION

CONSTRUCTION DOCUMENTS

E LANDSCAPE **DETAILS &** NOTES

LP501

1.1 CHMMADY

B. Section 328400 "Irrigation System".

a. Mechanical analysis.

f. Soluble Salts

4.4 CUDANTTALC

Percentage of organic conter

C. Section 328401 Thrip Impation System

D. Spacification Section - Soils Deport for reference only

A. The extent of the landscape development work is shown on the drawings and in schedules

Obtaining and paying for permit fees, inspections and tests required for the installation of landscape planting.

landscape planting.

Providing and placement of all plant material, topsoil, mulch, miscellaneous materials and mantenance of landscape planting and associated guarantees.

Repair the existing Landscape Planting as required to restro to "as-new" condition.

All plant material will be approved by the Architect and the Caners Representative on site point to [planting, Non-approved material to be removed from the site at no cost the District.

B. Size, quality, handling, planting and maintenance of plant materials shall be in accord with "American Standard for Nursery Stock", ANSI Z60-1996, American Association Nurserymen, Inc. Minimum acceptable sizes of plants, measured before pruning branches in normal position, shall conform to measurements specified in the Plant Mate

C. Plants shall be subject to the Owner's Project Manager and Landscape Architects inspection and approval at place of growth or upon delivery for conformily to specification requirements. Such approval ability in the project of th

All plant material will be inspected again at time of final inspection and once again at the end

Any plant material found to be unacceptable at any inspection shall be immediately removed

D. Unauthorized substitutions of plant material will not be accepted. All substitution requests must be made in writing and preferably before the bid due date.

E. Contractor will provide and pay for materials testing. Testing agency shall be acceptable to

Test representative samples of materials proposed for use. Materials used in the work shall be the same materials as tested. Do not use proposed material in the work until test reports have been reviewed by the Landscape Architect and approval obtained to proceed with plant

Recommendations on the type and quantity of soil nutrient additives required to bring nutrients to a satisfactory level for specified plants.

Recommendations on the type and quantity of soil additives required to bring the pH of soil to a value of 5.5-8.2 (unless otherwise noted).

G. Landscape work shall be done by a single firm specializing in landscape construction work with minimum 5 years experience completing projects of similar size and complexity.

. General: Submit each item in this article and for each item listed in Part 2 - Materials for review and approval according to the General Conditions of the Contract and Specifications - Division 1

C. Submit commercial soils test with material test reports and soil nutrient additive

G. Submit within 20 days of award of the bid to general contractor a planting schedule st sources from which said Contractor can provide the plant materials in the quantity and

Submit photographs and other descriptions of all plant material that is located outside of a 90 mile radius of project location. Provide specific growing location address.

As scaled ormensions are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and quantities; and shall immediately inform the Landscape Architect of any discrepancy between the information on the Drawings and actual conditions, refraining from doing any work on said areas until given approval to do so by the

Plant quantities listed on the Drawings are for the convenience of the Contractor only not guaranteed. All planting indicated on the Drawings will be required unless

E A Prepare, transport and handle plants to ensure protection against injury. Cover all plants while transporting to the site.

a. Plants shall remain on the site of the work no longer than three days prior to being

b. The earth balls shall be kept moist and their solidity carefully preserved. To prevent drying out or freezing, store plants in a compact group with suitable mulch material

eeding with any work, the Contractor shall

D. Submit a label from the manufacturer's container certifying fertilizer content

I. Submit contractor's Guarantee Form for Landscape Architect's review

E. Submit samples of proposed mulch for use in planting beds

for evaluation and acceptance prior to bid.

1.5 VERIFICATION OF DIMENSIONS AND QUANTITIES

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

B. Deliver plants with legible waterproof identification labels

C. Temporary storage of new material:

1. Contractor to provide list of past projects completed during last 3 years at time of first bid

E. Packaged materials shall be delivered in factory labeled containers showing weight, content and manufacturer. Protect all materials from damage and deterioration during delivery and storage at site.

A. Examine the subgrade, verify the elevations of topsoil, planting mix or mulch. Observe the conditions under which work is to be performed and notify the Landscape Architect of unsatisfactory conditions. Do not begin landscape work until unsatisfactory conditions have been improved.

1.8 EXCAVATION

A. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify the Landscape Architect before planting.

1.9 EVISTING LITTLE TIES

Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required, to minimize possibility of damage to undercoround utilities. The Contractor shall have the area "Blue Staked" olici to dicipion. It is

B. Before planting, locate all underground utilities prior to digging. Do not place plants on or near utility lines. Obtain a digging permit first (see the General Conditions) and have the permit at

1 10 DI ANTING SCHEDI II E

A. Before bidding each bidder shall investigate sources of supply and determine availability of all plants specified on the planting list in size, variety and quantity. Failure to take this precaution will not relieve the successful bidder from responsibility as a contractor to furnish and install all

B. Prepare a proposed planting schedule for approval by the Landscape Architect. Schedule the dates for each type of landscape work during the normal seasons for such work in the area of the site. Correlate with specified maintenance periods to provide maintenance throughout the specified time period. Once accepted, revise dates only as approved in writing, after

C. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of landscape work required.

1.11 ESTABLISHMENT MAINTENANCE REPLACEMENT AND GUARANTEE

A. The establishment period shall begin at the time that the planting phase of the work is completed, inspection and written notice is given and shall continue until substantial line. See Total Site Maintenance section 3.11.

B. Maintenance shall include but not be limited to watering, weeding, pruning, spraying, adjusting of guys, and lawn maintenance as described herein.

C. Remove and replace trees found to be unacceptable at the time of substantial com-. Remove and replace trees found to be unacceptable at the time of substantial completion and at any time during the guarantee period. Replacements shall be made during the guarantee period. Replacements shall be made during the growing season and shall comply with all requirements and specifications. Replacement shall also match specified tree in specie, size, and condition. Any displacement shall also match specified tree in specie, size, and condition. Any office of the shall replace the shall be completed or any item of work in the planting operation which detends the planting into more than one season shall elected the guarantee period which extends the planting into more than one season shall elected the guarantee period to the shall be made of the shall be shall be shall be shall be shall be shall be made of the shall be shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be shall be shall be made of the shall be made of the shall be shall be shall be shall be made of the shall be shall be shall be made of the shall be made of the shall be shall be shall be made of the shall be made of the shall be shall be shall be made of the shall be shall be shall be shall be shall be shall be made of the shall be shall

Any plants that settle below or rise above the desired finished grades during establishment or guarantee period shall be reset at the proper grades.

E. Guarantee all planting for one year following signature of Owner on the final contract payment

F. The Contractor will not be responsible for plants destroyed or lost due to occupancy of project, or vandalism on the parts of others or if the failure of any plant material can be p to the Landscape Architect to be beyond the control of the Contractor.

G. At the end of the guarantee period a final inspection of all planting included in this contract will At the end of lest gualantee period a minal inspection of an planing included in this contact, with be made by the Landscape Architect. At that time any plant found not to be in a healthy growing condition, broken, damaged, or not exhibiting the desired characteristics of the plant shall be noted. These noted plants shall be removed as specified above.

PART 2 - MATERIALS

2.1 TOPSOIL

A. Topsoil for planting operations shall be imported onto the project site. It shall be friable, fertile, natural sandy loam containing at least 2 % organic matter. PH range shall be 55 to 8.2 inclusive, shall be capable of sustaining vigorous plant growth. It shall be free of admixture of subsoil and shall be reasonable free of stones, lumps, clods of hard earth, plants or their roots. ticks, or other extraneous matter. It shall not be used for planting operations in a frozen or

B. Prior to delivery of topsoil to the site the Contractor shall furnish commercial soil tests for Landscape Architect's approval. If such tests indicate the topsoil to be other than the type specified it shall be replaced with a topsoil which shall conform to the specifications at no additional compensation to the Contractor.

C. Topsoil shall not be used for planting operations while in a frozen or mu

2.2 PEAT MOSS

A. Peat moss used in planting soil preparation: High quality pure Canadian sphagnum peat with a pH value not less than 3.5 nor greater than 6.0 at 25 degrees C. The ash content shall be not more than 10% and water holding capacity shall be not less than 800 high.

B. All neat comply with O.P.166e, class B coarseness

2.3 ORGANIC SOIL AMENDMENTS

. Compost: Well composted, stable and weed free organic matter, pH range of 5.5 to 8' moisture content 35 to 55 by weight; 100 percent passing through a ½' sieve; soluble content of 5 to 10 decisiemens/m; not exceeding .5 percent inert contaminants and free of substances toxic to planting.

B. Compost to meet USU extension Compost Quality Guidelines for Landscapin

C. Organic soil amendments (compost) shall be composted and nitrogen statifoliowing manufacturers:

a. Soil-pep by Mt. West Products. Rexburg. Idaho

b. Bio-Rem True compost, Holden, Utal c. Replenish Products,

d Nutrimulch Moroni Utah

Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum of 99 percent passing through No. 6 (3.35-mm) sieve and a maximum of 10 percent passing through No. 40 (.425-mm) sieve.

2.5 ORGANIC SOIL CONDITIONER

ioner shall be composted and nitrogen stabilized Soil-pep by Mt. West Products, Rexburg, Idaho.

2.6 BACKFILL

4 parts

2.7 COMMERCIAL FERTILIZER - TREES AND SHRURS

A. Fertilizer for trees, shrubs and ground cover planting areas shall be slow release type,

A. Separation Fabric: Woven or nonwoven geotextile manufactured for separation applications

1. DeWitt Pro 5 Weed Barrier.

3.9 DRY SOIL AMENDMENT

A All plants are subject to approval reparting size health quantity character, etc. by the

B. The Contractor shall furnish and plant all plants shown on the Drawings, as specified and in quantities as shown. Quantities of shown, are included for the convenience of the Contractor to contract on the Contractor of the plainty flower aim a perclaimts before submining institut, reaction to take this preclaimth will not elletive the successful blidder from his responsibility as Contractor for the furnishing and stalling of all the plant material in strict accordance with the contract requirements without additional expense to the Owner.

D. Plant names used in the Plant Material Key conform to "Standardized Plant Names" by the American Joint Committee of Horticulture Nomenclature, except in cases not covered therein. In these instances the outsom of the nurser trade is followed.

E. Plant materials shall conform to the Plant Material Key shown on plans and to the requirements of the "Hoticultural Standards" of the American Association of Nurseymen as to kind, size, age, etc. and shall be typical first-class representatives of their species or variety, and shall have a normal habit of growth, unless specified otherwise. They shall be sound, healthy and vigorous with a well-dev

E. All plants shall have been grown under climatic condition similar to those in the locality of the t for at least two (2) years and shall have been transplanted or root pruned at least project for at least two (2) in the last two (2) years.

G. All plants shall be number one quantity specimens and shall have a uniform matching caliper, size and canopy, be symmetrical with standard height, spread and branching patterns. No park grade plant material is acceptable.

Trees shall have straight single leaders with symmetrical primary branching and considerable well spaced secondary branching filling out the head with no gaps.

H. Plants shall be marked for identification. Each bundle of plants and at least 25% of each species and variety of separate plants in any one (1) shipment shall have legible labels securely attached before delivery to the site.

I. All trees shall be measured when their branches are in their normal position. Height and spread dimensions specified refer to the main body of the plant and not from branch or root tip to bip. No trees witch have had their leaders cut, or so damaged that cutting is necessary, will be accepted. Measure caliper of all trees 4" and larger 12" above the surface of the ground. Measure all trees less than 4" in caliper 6" above finish grad

All plants shall be symmetrical and shall conform to the size, age and cond on the plant list shown on the Drawings. Exceptions are as follows:

Plants larger than specified in the plant list may be used if approved by the Architect, but us of such plant shall not increase the contract price. If the use of larger plants is approved, the special of note and ball earth shall be increased in proportion to the size of the plant. Bar enote plants furnished in size greater than specified shall be balled and burshapped when required by the Landscape Architect.

Where caliper or other dimensions of any plant materials are omitted from the Plant Material Key, it shall be understood that these plant materials shall be normal stock for type listed and at a minimum, the average size of all the material listed.

K. Plants shall not be pruned prior to delivery except as authorized by the Landscape Architect

L. No plants shall be dug or delivered to the site until the required inspections have been made and the plants or samples approved.

M. Dig balled and burlapped (BB) plants with firm, natural balls of earth, of diameter not less that specified and of sufficient depth to include all fibrous and feeding roots. No plant moved with a ball will be accepted if the ball is cracked or broken before or during planting operations,

N. Roots or balls or all plants shall be adequately protected at all times from sun and/or drying

All bailed and bufapped plants which cannot be planted immediately upon delivery shall be set on the ground and shall be well protected with out, well most, or other acceptable mater is Been control plants, which cannot be planted minimadely, shall be planted or heeded: in it trenches minimadately upon delivery. No materials heeded-in more than one week may be used. Bundled of plants superaided able to the plants superaided often the not see used. Bundled of plants superaided ablent the notice were described to the plants superaided some first notice ground great ground planting operations, but noted shall be covered with cannot, well share or offer subble hardstand.

No plant shall be bound with wire or rope at any time so as to damage the bark or break

O. Plants marked "cans", "pots" or "other container" on the plant list shall have been grown in the containers for a minimum of six (6) months and a maximum of two years. Roots shall fill the containers but show no evidence of being or having been not bound. Plants shall not be picked up or moved by stem or branches, but shall be lifted and handled from the sides of the containers.

2.11 GUYING AND STAKING MATERIAL

A. Tree stakes: steel "T" post, 8'long.

B. Hose: High quality braided rubber or plastic hose, 1/2" diameter and suitable length (Color

C. Wire: 12 gauge galvanized steel

D. Guying cable: galvanized steel, #9 gauge, Timbles and clips shall be used for co

F. Guying stakes: 2" x 2" x 33", notched hardwood

G. Duckbill tree support system by Foresight Industries (800-325-5360) shall be used for trees larger than 3" caliper.

following size is are required per the drawings:

2.12 STONE MULCH A. Stone Mulch shall be clean washed crushed angular stone mulch. Provide three color samples for Owner Approval. Coordinate with Owner and Landscape Architect. The

2 13 WEED BARRIER FARRIC

1 3/4" to 1-1/2"

square yard, color black. Use Typar or Dewitt Pro 5 Weed Parrier or approved equal

Anti-TRANSPIRANT solution for horticultural spray application. Use Bio-Plex, by Bioplex Organics, Inc. (800-441-3973)

2.15 WATER

A. Potable water

t Herbicide; Round-up or approved equa

B. Pre-emergent herbicide: Poast or approved equa

DADES EVECUTION

A. The contractor shall coordinate his work with other contractors on site, and shall cooperate to the fullest extent to see that the work is completed in a timely and workmanship like manner.

3.2 INSTALLATION OF TOPSOIL

A Prior to the installation of any topsoil, Contractor shall inspect the existing subgrade for compliance to the specifications regarding elevation, slope, grade and cleanliness. Any deficiency shall be reported to the Landscape Architect. Work begun in any area will acknowledge acceptance of area for Landscape planting.

B. When contract operations have been completed to a point where planting areas will not be disturbed, subgrade shall be cleaned free of waste material of all kinds. In all planted areas (dig out all to weeks by their roots and retrove from size. Scardly and pulverine the subgrade to a depth of not less than 6" inches. Scarification shall be completed in all areas that are to be planted.

C. Spread the topsoil to a minimum depth of 12° in planting beds and ground cover areas allowing for 4° of stone mulch.

E. Topsol shall be rolled by a hand roller on small areas. After rolling at a weight of 150-200 pounds per linear foot of roller, the grade shall again be graded to the specified grade with a smooth surface. Large areas shall be graded by passing a land plane in three different directions over the entire area to be planted.

F. Surface drainage shall be insured, and if shown, shall be directed in the manner indicated on the Drawings by moking the surface to facilitate the run-off water. Fill low spots and pockets with topsoil and grade to drain properly.

o. Ine minin grade of the topsoil adjacent to all sidewalks, mow strips, etc., and prior to planting shall be 1 ½" below the top surface of adjacent pavement or hard surface of any kind. If the Landscape Architect shall approve the firsh grading prior to installation of plant material. No exceptions. Make minor adjustments to finish grades at the direction of the Landscape Architect.

3.3 PREPARATION FOR PLANTING TREES AND SHRURS

A. All sprinkler system work and finish grading shall be approved by the Landscape Architect prior to any planting. No planting will be done without direct supervision of the Landscape Architect. The planting shall precede lawn planting.

B. Locate the exact placement of all trees and shrubs and secure approval of the Landscape Architect prior to the digging of any holes. Refer to the Drawings for the sizes and preparation of holes. Prepare all holes according to the details on the Drawings.

C. To avoid a soil water interface problem, excavated soil material from planting holes are to be inspected by the Project Manager to determine if such soil should be used as backfill material. If it is determined that the excavated material is not of good quality then it should be modified to an acceptable texture, organic content and PH.

D. Prior to the installing of any plant material in the prepared hole, the Project Manger must approve the size, width and depth of the hole.

3.4 TREE AND SHRUB PLANTING

A. Prior to planting, fill excavated planting hole with water and allow to percolate out. If, after 24 hours, the water has not percolated out of the pit, notify the Landscape Architect. Do not plant until the problem has been corrected.

B. The planting holes from the bottom to the top of the opening should be the same depth as the root ball. Plants must be placed plumb and straight in the planting hole. The tree hole depth shall be determined so that the tree may be set at finish grade, using the top of the root ball as a guide.

C. The tree plant hole should be the same depth as the root ball, and three times the diameter of

D. Trees must be placed on undisturbed soil at the bottom of the planting hole

E. The tree hole depth shall be determined so that the tree may be set slightly high of finish grade, 1° to 2° above the base of the trunk flare, using the top of the root ball as a guide.

F. All tree holes shall be backfilled with specified backfill in 12" inch lifts and settled and tamped to minimize any settling of the tree

G. When the root ball is partially backfilled and compacted <u>ALL</u> burlap, ropes, or wire baskets shall be removed from the sides of the root ball. No burlap shall be pulled from under the root balls of the plants. The plants shall then be watered with a hose to completely soak the roots

H. Fertilize with tree and shrub fertilizer according to manufacturer's printed instructions

iners shall be removed from the root balls by cutting with cutters. Do not damage root ball by using trunk or main stem as a handle

J. Prenare a watering circle of 2' diameter around the trunk. For conifers, extend the watering well to the drip line of the tree canopy. Place 4'of mulch round the planted trees

K. All plants shall be thoroughly watered immediately following planting. This shall mean full and thorough saturation of all backfill in the pits and beds during the same day of planting. Water shall only be applied by an open end bose at very low pressure to avoid air pockets, injury or washing. When planted, watered, and fully settled, trees shall be vertical.

L. The Contractor shall hand water newly planted trees twice a week for eight weeks. A minimum of five (5) gallons of water per tree is required.

M. The amount of pruning shall be limited to the minimum necessary to remove dead or injured whigs and branches. All cuts, scars and bruises shall be properly treated according to the direction of the Landscape Architect. Proper pruning techniques shall be used. Do NOT leave stubs and do NOT cut the leader branch. Improper pruning shall be cause for rejection of the plant pariety.

N. A 3" deep saucer shall be formed at the edge of plant pit. Water the same day as planted

O. Saucer shall not be required when planted where edging is required around plant pits.

P. Within 48 hours of planting each plant remove all undesirable material from the surface of the planting beds, including all rocks over the size of 5" diameter. Install the specified mulch to a uniform depth of 3" in the entire planting beds and all tree basins.

Q. This Contractor shall dispose of, off the site, all soil excavated from tree and shrub pits

R All planting beds shall receive a 4° mulch layer

Staking of trees shall be done immediately after they are planted. Plants shall stand plumb after staking. All stakes shall be removed by this Contractor after the guarantee period has concluded.

3.6 TREE WRAPPING

A. All trees shall be wrapped with tree wrap. Wrap shall be applied to trunks immediately after planting to protect bark against winter injury caused by diurnal temperature fluctuations. Wrap shall be resistant to evalence degradation and require no maintenance and must stretch as the girth of the trunk increases over time.

Starting as low as possible, wrap tree wrap in a smooth spiral to assure or previous wrap by about W.

Continue wrapping up the trunk to just below the s crotches is optional.

Tile off tree wrap with a half hitch knot.
 Cover the base of the tree and the first wrap of tree wrap with soil.

A Due to water conservation / water restrictions, watering of the landscape shall be accomplished after 6:00 pm and before 10:00am.

3.8 CLEAN UP AND PROTECTION

During landscape work store materials and equipment where directed. Keep par and work area in an orderly condition.

Protect landscape areas, work and materials from damage due to contractors and trades, trespassers. Maintain protection during installa periods. Treat, repair or replace damaged landscape work as directed.

Neep the site free from accumulation of waste material. At the time of completion, all areas must be swept and washed clean and all rubbish removed to the satisfaction of the

D. Temporary occupancy of the project shall not relieve the contractor of any of the obligations

3.9 TOTAL SITE MAINTENANCE

9 IOTAL STIE MAINTENANCE: A As part of this Contact, this Contractor shall be responsible for the continuous maintenance of all anotace areas, i.e., weeking, watering, moving, relinitation, rick. from the time that and exclosed of all most with a raise plant of with the Pringet Date of Solitamila Completion, but and the prince of the original contract of the prince of the prince of the Solitamila Completion, but and the prince of the prince of

Additional fertilization operations

Additional mowing operations Additional specific watering operations

Weed control measures Weed control measures

B. Maintain plants in a vigorous, thriving condition by watering, cultivating, weeding, pruning, spraying and other necessary operations. No trees or shrubs will be accepted unless they are healthy and show astificatory folioge conditions. Plants shall be maintained through the—length of the total site maintainance period.

a near appearance. Spray as required to keep plant materials free of disease and insects.

Replace mulch to maintain specified depth. All new tree and shrub plantings shall be hand watered thoroughly at least twice a week during the maintenance period.

C. The Contractor shall instruct the Owner as to the watering requirements and shall monitor such operations at all times. The Contractor shall be held responsible for failure to monitor the watering requirements and shall be held responsible to replace any or all plants that are lost due to improper application of water.

D. Maintenance shall include, in addition to the above, cleaning, edging and repair to erosion and all other necessary work of maintenance. Sidewalks and other paved areas shall be kept clean when planting and maintenance are in progress.

A. Inspection will be made of the entire site periodically and at the conclusion of the maintenance

B. The landscape work may be inspected for acceptance in parts agreeable to the Landscape Architect, provided the work offered for inspection is complete, including maintenance and that the area comprises one unit or area of substantial size.

C. Written notice requesting final inspection shall be submitted to the Landscape Architect at

least ten (10) days prior to the anticipated inspection dat D. Where inspected landscape work does not comply with the requirement, replace rejected work and continue specified maintenance until re-inspected by the Landscape Architect and found to be acceptable. Remove rejected plants and materials promptly from the project site.

E. Final Acceptance: The work under this contract will be accepted upon written approval by the Landscape Architect and the Owner, on the satisfactory completion of all work, including

A written guarantee that covers the above provisions shall be signed by the Contractor and delivered to the Landscape Architect upon acceptance of the work. The guarantee shall not be bringing upon the Contractor of any fallure should be proved to the satisfaction of the Landscape Architect to result from circumstances or negligence of parties over whom the Contractor has no contract.

A. Record Drawings shall be lumished to the Landscape Architect at the time of the substantial compeletion inspection before a letter documenting Substantial Compeletion for the landscape planting will be issued. This information shall be provided in AutoCAD that and shall be given to the Landscape Architect before the project is accepted. The AutoCAD file shall be a copy of the original plants for the project and shall be corrected by the contrador at the first contradictions are considered to the contrader of the contrader of

END OF SECTION

City Engineer City of South Jordan Approved 01/10/2023

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EWAY UT 841  $\circ$ GATE CITY, 0 JORDAN GS Ž  $\overline{\Box}$ 0096 S. OUTH J ᅙ

MHTN

ARCHITECTS

MHTN Architects, Inc. Architects, II 420 East South Temple Suite 100 Sait Lake City, Utah 84111 Telephone (801) 595-6700 Telefax (801) 595-6717 www.mhtn.com

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CONSTRUCTION DOCUMENTS

LANDSCAPE **SPECIFICATIONS** 

LP502

ມີ ໄດ້ປະບາ City Engineer

# SOUTH JORDAN CITY PLANNING COMMISSION REPORT

**Issue:** SILVERSTONE AUTOMATION

**SITE PLAN** 

**Address:** 10096 South Jordan Gateway

**File No:** PLSPR202000181

**Applicant:** Ryan Berry, MHTN Architects

Submitted by: Damir Drozdek, Planner III

Shane Greenwood, Supervising Senior Engineer

**Staff Recommendation (Motion Ready):** I move that the Planning Commission **approve** application PLSPR202000181 to allow for construction of a new commercial building on property located at 10096 South Jordan Gateway.

ACREAGE: Approximately 0.75 acres

CURRENT ZONE: I-F (Industrial - Freeway) Zone

CURRENT USE: Undeveloped and vacant

FUTURE LAND USE PLAN: IND (Industrial)

**NEIGHBORING ZONES/USES:** North – I-F / Parking Lot

South – I-F / Social Security Offices

Meeting Date: 08/25/2020

West – I-F / Vacant land East – I-F / Parking Lot

# STANDARD OF REVIEW:

All proposed commercial, office, industrial, multi-family dwelling or institutional developments and alterations to existing developments shall meet the site plan review requirements outlined in chapter 16.24 and the requirements of the individual zone in which a development is proposed. All provisions of titles 16 & 17 of the City Code, and other city requirements, shall be met in preparing site plan applications and in designing and constructing the development. The Planning Commission shall receive public comment regarding the site plan and shall approve, approve with conditions or deny the site plan.

# **BACKGROUND:**

The applicant is seeking approval to construct a new commercial building on property located at 10096 S. Jordan Gateway. The building will consist of an office and shop space. The shop space will primarily be used to build machines that are delivered to medical manufacturing companies. The building will be two stories tall and 32 feet above grade at its highest point. The exterior finish materials will include brick, eifs siding system, aluminum/composite wood siding and metal cladding. Mechanical equipment will be located on the rooftop and screened from view by a parapet wall.

Access to the building from Jordan Gateway will be via a shared driveway with the Social Security Administration building immediately to the south. No improvements will be made to the existing private drive or along Jordan Gateway. Parking will be provided along the east and the north project boundary. Public improvements will be minimal and consisting of a new fire hydrant, water meters and a water line. Storm water will be collected and retained in an underground storage facility located at the northwest corner of the project. It will be privately maintained.

Landscaping will consist of various trees, shrubs, grasses and stone mulch around the building and the parking area. No sod will be installed with the project. A dumpster enclosure will be located at the northeast end of the project. No new fencing will be constructed with the project. The existing barbed wire fence which runs along the north boundary will be removed.

# STAFF FINDINGS, CONCLUSIONS & RECOMMENDATION:

# **Findings:**

- The business is classified as "assembly" and "research and development" per City Code. These two uses are listed as permitted uses in the I-F zone.
- Impact Control Measures of the City Code require an "operations plan" for the assembly-type use and "operations plan", "sound plan" and "additional notice" for the research and development use. The operations and sound plan are attached in the Support Materials as a letter from the applicant. The additional notice was completed as well. The notice was sent to all property owners within 600' of the project boundary.
- The Architectural Review Committee reviewed the proposed building on June 24, 2020 and unanimously recommended approval as long as service doors at the rear of the building are painted to match the building colors and mechanical equipment is screened from view. Those two items have been changed on the new elevation drawings showing new colors for service doors and a parapet wall around the building edge.
- The project meets the Planning and Zoning (Title 17) and the Subdivision and Development (Title 16) Code requirements.

# **Conclusion:**

• The proposed project will meet the requirements of the Subdivision and Development (Title 16) and the Planning and Zoning (Title 17) Codes.

# **Recommendation:**

• Based on the Findings and Conclusions listed above, Staff recommends that the Planning Commission take comments at the public hearing and **approve** the Application, unless, during the hearing, facts are presented that contradict these findings or new facts are presented, either of which would warrant further investigation by Staff.

# **ALTERNATIVES:**

- Approve an amended Application.
- Deny the Application.
- Schedule the Application for a decision at some future date.

# **SUPPORT MATERIALS:**

- Aerial Map
- Zoning Map
- Site Plan
- Landscape Plan
- Elevations
- Cabco Jordan Subdivision plat map
- Silverstone Business Description (applicant's letter)

Damir Drozdek, AICP

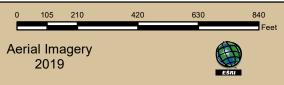
Planner III

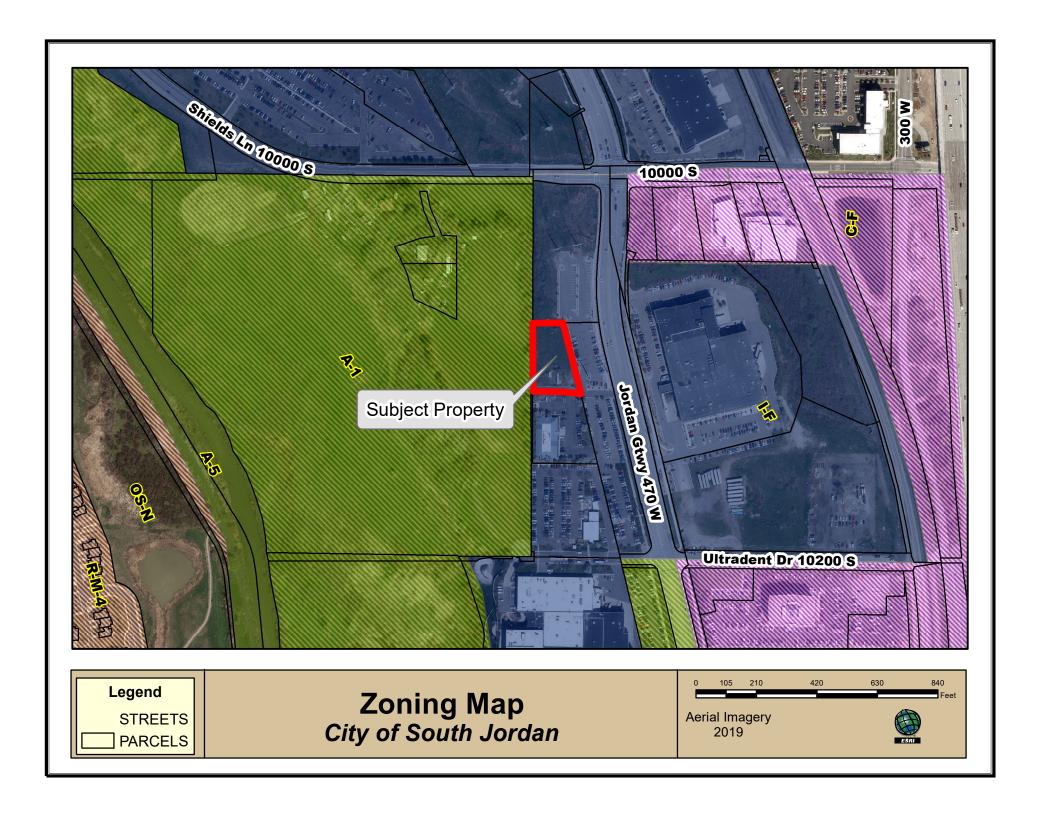
Planning Department

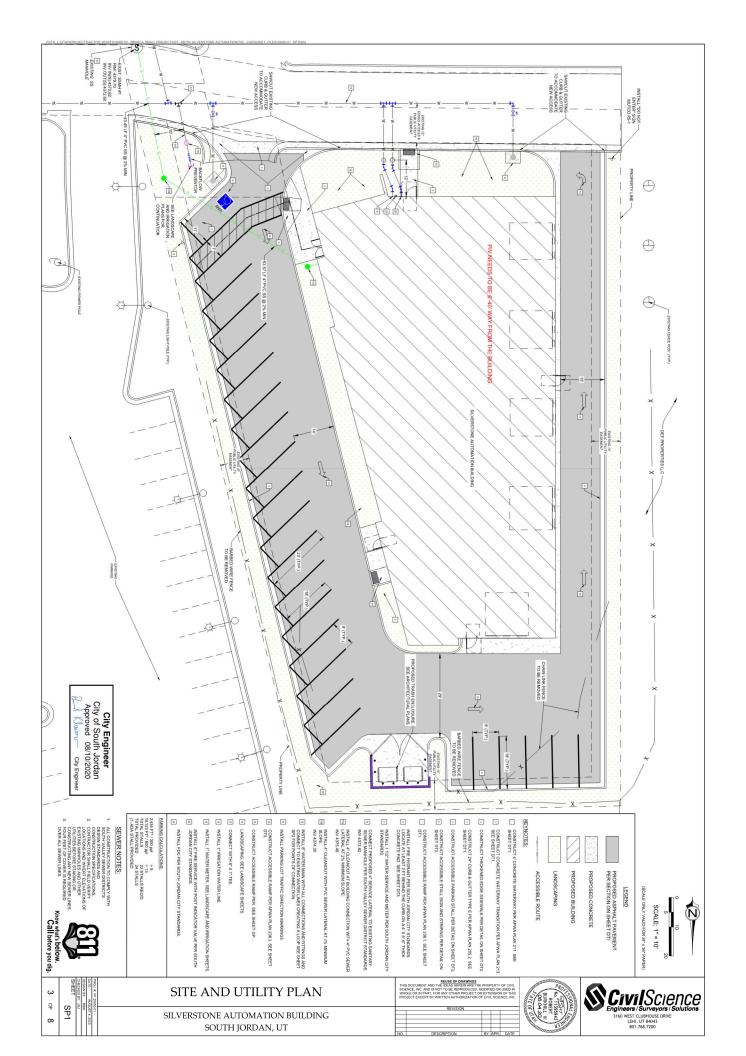


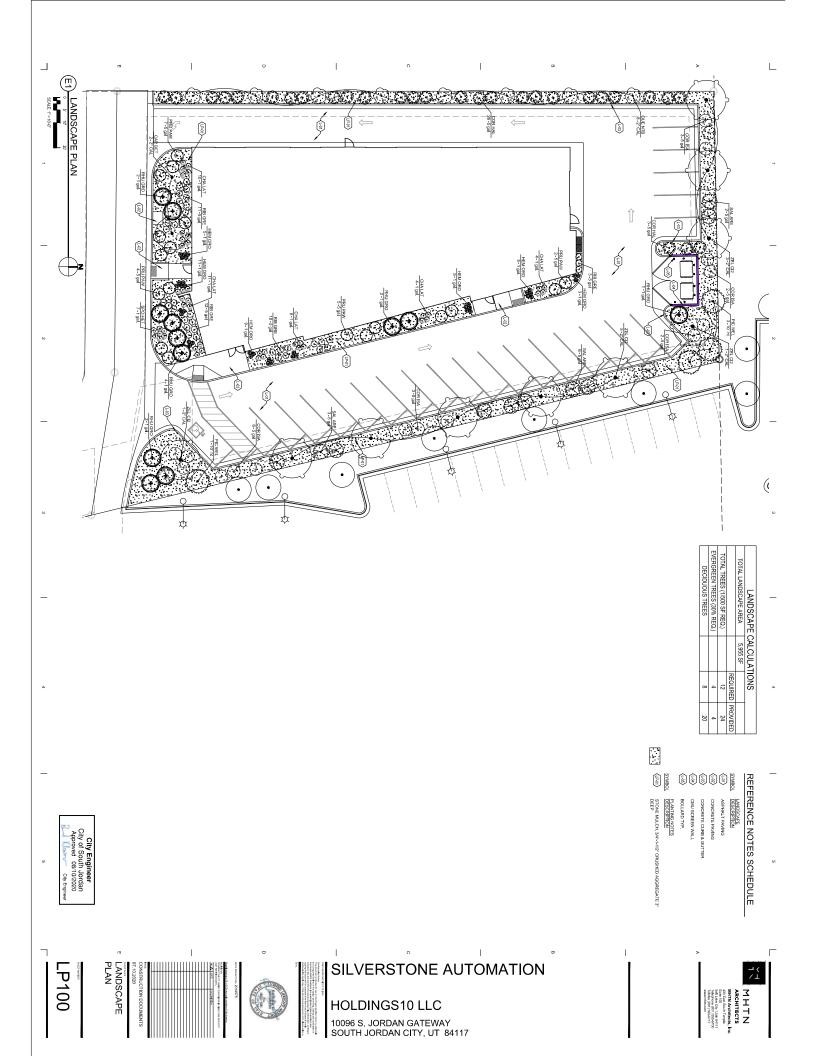
Legend
STREETS
PARCELS

Aerial Map
City of South Jordan



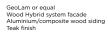














INTERSTATE BRICK SIZE: KING SIZE COLOR: COAL



EIFS SIDING SYSTEM COLOR: LIGHT GREY BUILD SPACE SIDE, PART NORTH/ SOUTH, AND ALL WEST



EIFS SIDING SYSTEM COLOR: DARK GREY FRONT OFFICE AREA

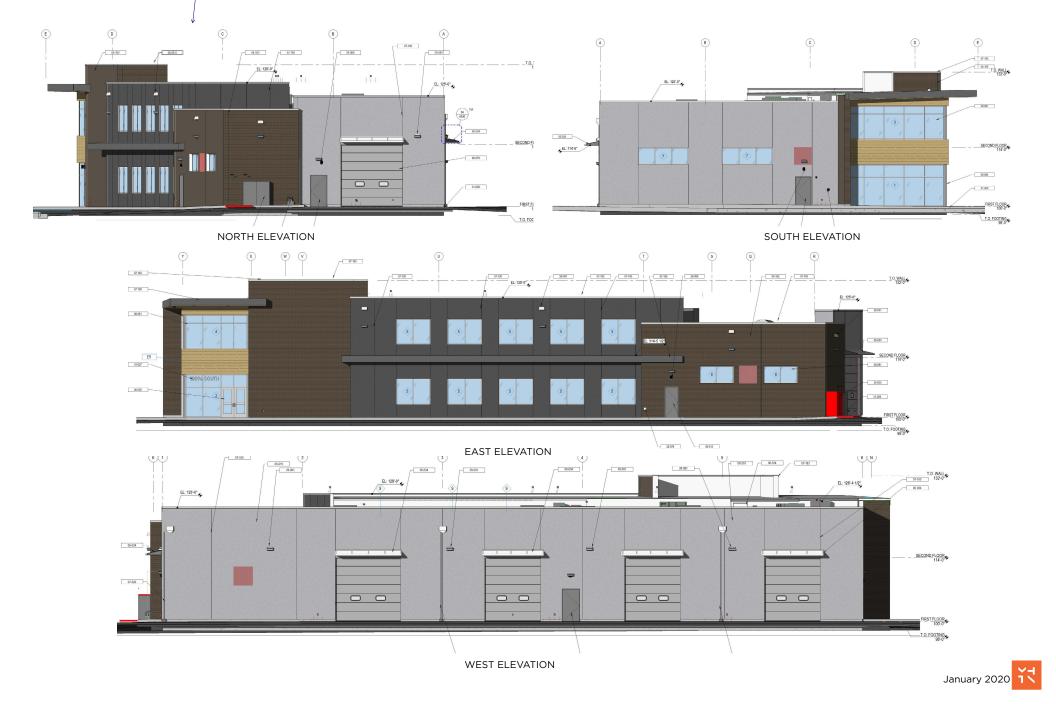


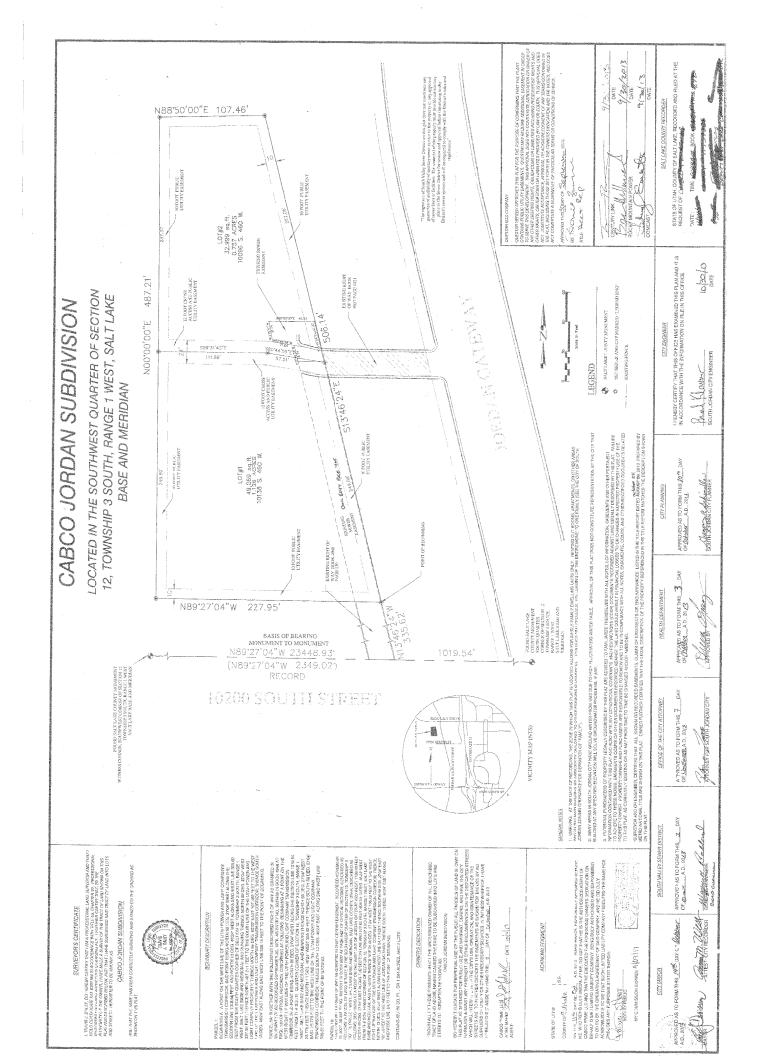
BLACK METAL FASCIA CLADDING



ANODIZED ALUMINUM STOREFRONTS/ AWNINGS









# **Business description:**

Design, build, program, test, and document custom automation machines that are delivered primarily to medical manufacturing companies. Silverstone also builds a handful of standard machines for medical manufactures.

# Noise:

Standing outside our building, you might hear the faint sounds (~70db) of:

- Air compressor.
- Maybe a customer's machine running in debug mode.
- About one time per week, we use our forklift to access a delivery truck. The forklift sound is similar to a car.
- Band saw sometimes one time per day.
- Prototyping tools (mill, lathe) a few times a day.

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None

# **Dust:**

None

# Vibration:

None would be felt outside the building. On our build floor, when certain machines are in debug, you might feel faint floor vibrations. Some machines use vibratory feeder bowls which transmit small vibrations into the floor near the machine.

# **Visual impacts:**

None. Our customers are medical companies which means cleanliness is an important selling point.

# Hazardous materials used or stored on site:

1 gallon of lacquer thinner to wipe surfaces of the machine.

# **Hazardous activities:**

None

# Is there any heavy equipment or trucks coming or leaving the site and how often?

Tractor trailer pick up or drop off approximately 1 time per week.

# Let us know what the hours and days of operation are:

7AM to 6:00PM M, T, W, TH, F Occasionally Sat 7 to 12PM

**Employees:** Eleven employees drives to and from work.

# **Customers:**

Customers visit about 2 times per week.

# **Vendors:**

Vendors visit about 2 times per week.

# **UPS/FedEX/DHL:**

Usually 2 or 3 deliveries per day.

Commissioner Gedge said Hawthorn Academy is across the street and I can't think of any other areas where we have retail establishment like this with (4) drive thru isles that close to a school, are there any concerns about the kids walking to, and from school.

Planner Sanderson said there is pad (F) and a detention basin, and then there is the Hawthorn Academy, but there is a space between them. There is also a signalized light that will go in, and that is part of the agreement that the City worked out with the developer. That signal has been fronted and we are working with UDOT to get that in, so it is not a matter of if, but when. The traffic studies show that it should help, because we don't anticipate that a lot of kids from Hawthorn will be walking, but it will be safer once that signal is installed.

Reed Stallings, Sandy Utah (Applicant) – said for clarification, all the lanes are about 11 cars stack, and Starbucks is the coffee house going in there. The other (3) lanes are a little wider so they could stack about 12 cars, and there is extra parking in the parking lot. I don't know if you have any other questions, but we just appreciate being able to do this. We have been working on this for a long time and we are anxious to get going on this as soon as we can. Pending this working out we will be submitting building permit plans tomorrow and hopefully get the first 2 building going before the snow flies.

Chair Hollist opened the Public Hearing to comments. There was none. She closed the Public Hearing.

Chair Hollist said will you continue to manage all (4) properties so it works well for all (4) tenants.

Mr. Stalling said that is correct, we are the developer and the owners. This is the Stalling's farm that we have owned for a long time in South Jordan, and when we sold it to the Boyer Company we wanted to have a tie to our family farm, so our intent is to own it for a very long time.

Commissioner Catmull motioned to approve File No. PLSPR202000048 for the proposed Ridgeview Commercial Parcel F Site Plan and conditional use permit, located at `1553 West 11400 South, with the following requirements which need to be completed prior to construction:

- Provide the original Storm Water Facilities Maintenance Agreement to the Engineering Department.
- Provide 15' wide water line easement for all main lines, hydrants and services up to and including water meters.

Commissioner Hollist seconded the motion. Roll Call Vote was 5-0 unanimous in favor.

# C. SILVERSTONE AUTOMATION, SITE PLAN

Location: 10096 South Jordan Gateway

File No: PLSPR202000181

Applicant: Ryan Berry, MHTN Architects

Planner Greg Schindler reviewed background information on this item from the staff report. There was (4) letters sent by email from the residents (Attachment A, B, C, D)

Commissioner Gedge said in one of the emails that Damir sent out there was a concern about property lines and what the City has that came from the Salt Lake County Assessor's Office, is that correct?

Planner Schindler said we received the email, but it has nothing to do with this development. This lot is on Lot 2 of the subdivision and it has been recorded with the County. We have a copy of the plat and it matches with what the site shows. The narrow strip on the other side does not pertain to this anyway, it is a different issue and I have no ideas of what the history is there. It has the same IF-Zoning, but it cannot be developed because it is not big enough.

**Lenny Disera, Sandy Utah (Applicant)** – said I would like to thank you for your time. The last 20 years I have been driving through South Jordan to Draper, and I am very excited to build this beautiful building in South Jordan and calling South Jordan our home.

**Cory Bodily, Sandy Utah (Applicant)** – said I am also a co-owner and I would like to thank you for the time you have spent on this project.

Chair Hollist opened the Public Hearing to comments. There was none. She closed the Public Hearing.

Commissioner Gedge motioned to approved application PLSPR202000181 to allow for construction of a new commercial building on property located at 10096 South Jordan Gateway. Commissioner Hollist seconded the motion. Roll Call Vote was 4-0 unanimous in favor; Commissioner Morrissey was absent from the vote.

# IX. LEGISLATIVE PUBLIC HEARINGS –

A. OTTO JONES PROPERTY REZONE Rezone from R-1.8 (Single-Family Residential, 1.8 lots per acre) to R-2.5 (Single-Family Residential, 2.5 lots per acre) Zone

Location: 10431 South 3200 West File No: PLZBA202000131

Applicant: Justin Jones

Planner Greg Schindler reviewed background information on this item from the staff report. There were (2) letters sent by email from the residents (Attachment E, and F)

Chair Hollist said I have the General Plan Land Use Map in front of me and there is an "L" shaped property just east of this that is marked an economic center, can you tell me what that is?

Planner Schindler said because it is on South Jordan Parkway and it is the only access there, and those are remnant UDOT Lots, and that is why it shows that there. It doesn't mean that they have

Dawn R. Ramsey, *Mayor*Patrick Harris, *Council Member*Bradley G. Marlor, *Council Member*Donald J. Shelton, *Council Member*Tamara Zander, *Council Member*Jason T. McGuire, *Council Member* 



PH: 801.446-HELP @SouthJordanUT

August 16, 2021

Attn:

Ryan Berry 420 E. South Temple, Suite 100 Salt Lake City, UT 84111

RE: Decision Notification for Time Extension

(PLTE202100202)

Dear Applicant,

On August 16, 2021, the above referenced application was **Approved** with the following Conditions:

- The time extension expires on August 25, 2022.
- Additional time extensions will not be allowed.

If you have any questions or concerns regarding this application, please do not hesitate to contact me by phone (801-254-3742) or by email (gschindler@sjc.utah.gov).

Sincerely,

Greg Schindler City Planner