

**GENERAL NOTES:**

1. NO WORK IS TO BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN OBTAINED. GENERAL CONTRACTOR TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
2. REQUIREMENTS SHOWN ON SITE PLAN SHALL GOVERN. GENERAL CONTRACTOR SHALL POINT OUT ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. ENTIRE INSTALLATION SHALL MEET ALL APPLICABLE CODES.
4. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS ON-SITE.
5. GENERAL CONTRACTOR TO PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED FOR FINAL CHECKOUT OF ALL FACILITIES BY OWNER'S REPRESENTATIVE.
6. GENERAL CONTRACTOR TO KEEP THE PROJECT SITE NEAT AND ORDERLY. GENERAL YARD CLEAN UP SHALL BE CONDUCTED AT THE END OF EACH DAY AND SHALL MEET THE APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO PROJECT COMPLETION.
7. THE GENERAL CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION.
8. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS & WALKWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
10. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
11. CONTRACTOR TO MAINTAIN ACCESS DURING CONSTRUCTION TO ADJACENT BUSINESS FACILITIES.

**DEMOLITION GENERAL NOTES**

1. THE CONTRACTOR SHALL REVIEW PLAN AND COMPARE WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL RESOLVE ANY DISCREPANCIES BETWEEN THE DEMOLITION PLAN AND EXISTING CONDITIONS WITH THE CIVIL ENGINEER AND/OR THE RESPECTIVE UTILITY COMPANY PRIOR TO ANY DEMOLITION ACTIVITIES.
2. THE CONTRACTOR SHALL PROMPTLY REPAIR ANY DAMAGES TO ADJACENT FACILITIES OR FINISHES CAUSED BY DEMOLITION OR CONSTRUCTION WORK. ALL REPAIR WORK SHALL BE AT NO ADDITIONAL COST.
3. THE PROJECT AREA SHALL BE KEPT CLEAN AND FREE OF DEBRIS AND REFUSE AT ALL TIMES. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS FROM SITE IMMEDIATELY UPON DECONSTRUCTION AND TO ENSURE PROPER AND LEGAL DISPOSAL OF ALL DEMOLITION MATERIAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES. IF DISCREPANCIES EXIST BETWEEN THE DEMOLITION PLAN AND EXISTING SITE CONDITIONS, THE CIVIL ENGINEER MUST BE NOTIFIED IMMEDIATELY.
5. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IMMEDIATELY IF THERE IS ANY DOUBT AS TO THE REMOVAL OR PRESERVATION OF ANY ELEMENT WITHIN THE PROJECT AREA.
6. EXISTING UNDERGROUND INSTALLATIONS AND PRIVATE UTILITIES SHOWN ON THE DEMOLITION PLAN ARE APPROXIMATE LOCATIONS. THE CIVIL ENGINEER DOES NOT GUARANTEE THE ACCURACY OF SUCH INFORMATION, BUT PROVIDES IT FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION ACTIVITIES.
7. THE CONTRACTOR SHALL COORDINATE ALL INFORMATION SHOWN ON DEMOLITION PLAN WITH ALL OTHER PLANS IN DOCUMENT SET PRIOR TO CONSTRUCTION.
8. BLUE STAKES DIGGING PERMIT REQUIRED.
9. CONTRACTOR TO LEGALLY DISPOSE OF ALL WASTE AND DEBRIS.
10. RECYCLE ASPHALT, CONCRETE, METALS, ETC, WHERE POSSIBLE.

**GRADING GENERAL NOTES:**

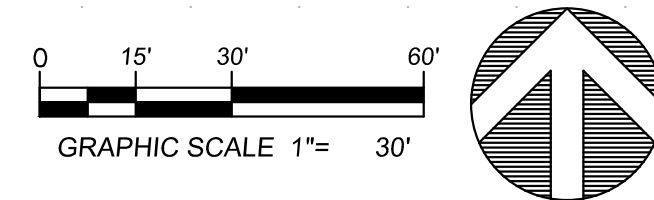
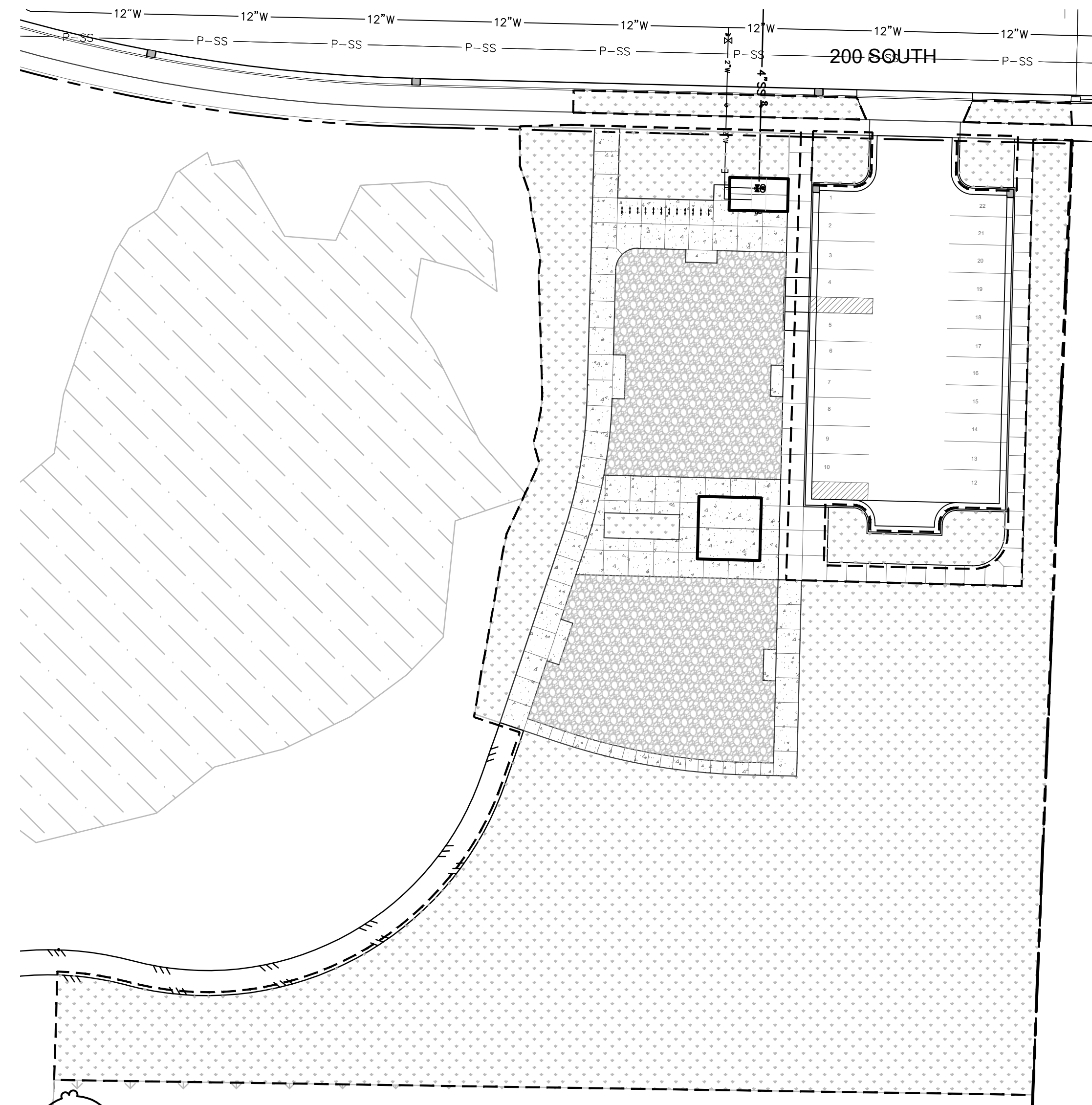
1. FINAL GRADES ARE SUBJECT TO MINOR CHANGES AS APPROVED BY OWNER. NO GRADE CHANGES IN EXCESS OF 0.05 FEET WITHOUT CIVIL ENGINEER'S APPROVAL.
2. ALL FILL MATERIAL SHALL BE CLEAN FILL SOIL APPROVED BY CIVIL ENGINEER.
3. ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PERFORMED UNDER THE RESPONSIBLE CHARGE OF A LAND SURVEYOR LICENSED IN THE STATE OF UTAH AND BY SURVEY CREW CHIEF OR ENGINEERING TECHNICIAN EXPERIENCED IN CONSTRUCTION LAYOUT AND STAKING TECHNIQUES AS REQUIRED BY THE SPECIFIC TYPE OF WORK BEING PERFORMED.
4. ACCESS AND HAULAGE ROADS SHALL BE MAINTAINED IN A DUST-FREE CONDITION BY SURFACING OR OTHER TREATMENT AS APPROVED BY THE CIVIL ENGINEER. FUGITIVE DUST SHALL BE CONTROLLED IN ALL OTHER OPERATIONAL AREAS OF THE PROJECT SITE. WATER TRUCKS OR OTHER MEANS MAY BE EMPLOYED TO CONTROL DUST AS NECESSARY.
5. CONTRACTOR SHALL MATCH GRADES AT SAWCUT LINE OF EXISTING CONCRETE FLAT WORK, CURB & GUTTER, AND SIDEWALKS.
6. CONTRACTOR SHALL MATCH FINISHED GROUND GRADES AT PROJECT LIMIT LINES.

**UTILITY GENERAL NOTES:**

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND ARE TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE ACTUAL LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLES OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. GENERAL CONTRACTOR TO COORDINATE ALL UTILITY WORK WITH THE APPROPRIATE UTILITY PROVIDER. GENERAL CONTRACTOR TO VERIFY AND FOLLOW ALL UTILITY PROVIDER REQUIREMENTS, PROCEDURES, STANDARDS AND SPECIFICATIONS.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION AND ELEVATION OF EXISTING UTILITIES WHICH MAY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION. IF A CONFLICT DOES EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE.

**SITE-CONSTRUCTION DOCUMENTS  
LOGAN RECREATION COMPLEX PROJECT  
MAPLE VIEW PARK**

LOCATED AT APPROXIMATELY  
200 SOUTH 1400 WEST  
LOGAN, UTAH 84321



**OVERALL SITE MAP**  
SCALE: 1"=30'

**CIVIL ENGINEER**

CACHE-LANDMARK ENGINEERING  
95 GOLF COURSE RD, SUITE 101  
Logan, Utah 84321  
(435) 713-0099

Lance Anderson, P.E.  
(435) 760-1622  
lance@cachelandmark.com

Jennifer Maughan, P.L.A.  
(435) 770-4721  
jmaughan@cachelandmark.com

**DATE OF PREPARATION:**

ORIGINAL ISSUE: 03 DECEMBER 2024



**LEGEND**

	BUILDING
	SAWCUT LINE
	CURB AND GUTTER
	EXISTING GAS LINE
	PROPOSED UNDERGROUND POWER LINE
	EXISTING UNDERGROUND POWER LINE
	PROPOSED STORM DRAIN LINE
	EXISTING STORM DRAIN LINE
	EXISTING SEWER LINE
	EXISTING WATER LINE
	PROPOSED WATER LINE AND SIZE
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	STORM DRAIN MANHOLE

**SHEET INDEX**

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**UTILITY CONTACTS**

**LOGAN CITY ENGINEERING:**  
76 East 200 North  
Logan, Utah 84321  
CONTACT: Darren Farar  
(623) 907-3300  
darren.farar@loganutah.org

**FIRE PROTECTION:**  
Logan City Fire Dept.  
76 East 200 North  
Logan, Utah 84321  
CONTACT: Craig Humphreys  
(435) 716-9515  
craig.humphreys@loganutah.org

**WATER / SEWER:**  
Logan City Water & Wastewater Division  
450 North 1000 West  
Logan, Utah 84321  
CONTACT: Joseph Hawkes  
(435) 716-9626  
joseph.hawkes@loganutah.org

**STORM WATER:**  
Logan City Storm Water Division  
290 North 100 West  
Logan, Utah 84321  
CONTACT: Lynn Mays  
(435) 716-9167  
lynn.mays@loganutah.org

**STREETS:**  
Logan City Street Division  
450 North 1000 West  
Logan, Utah 84321  
CONTACT: Hart Wybrow  
(435) 716-9643  
hart.wybrow@loganutah.org

**POWER:**  
Logan City Light & Power  
950 West 600 North  
Logan, Utah 84321  
CONTACT: Matt Turnbow  
(435) 716-9722  
matt.turnbow@loganutah.org

**NATURAL GAS:**  
Enbridge Gas Utah  
895 West 800 North  
Logan, Utah 84321  
CONTACT: Cristi Fiedel  
(435) 755-2206  
(435) 757-5433  
cristi.fiedel@dominionenergy.com

**COMMUNICATIONS:**  
Century Link Communications  
725 N 600 W  
Logan, Utah 84321  
CONTACT: John Quintana  
(801) 589-5850

**Syringa Networks**  
1385 West 2200 South  
Salt Lake City, Utah 84119  
CONTACT: Brandon Wilson  
(385) 235-0800  
24-HR HOTLINE: (800) 454-7214

**Comcast**  
1034 W RSI Drive #110  
Logan, Utah 84321  
CONTACT: Brian Lee  
(801) 332-0631  
brian\_lee@comcast.com



DESCRIPTION: \_\_\_\_\_  
NO.: \_\_\_\_\_ DATE: \_\_\_\_\_

**COVER SHEET  
GENERAL NOTES**

**MAPLE VIEW PARK  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321**

**CL**  
Cache • Landmark  
Engineers  
Surveyors  
Planners  
95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024  
SCALE: N/A  
DESIGN BY: J. MAUGHAN  
CHECKED BY: L. ANDERSON  
APPROVED BY: L. ANDERSON  
PROJECT NUMBER: 620-2005  
SHEET: **C001**

## STORM WATER POLLUTION PREVENTION INFORMATION

### SITE EVALUATION, ASSESSMENT, AND PLANNING

PROJECT SITE/NAME: LOGAN CITY MAPLE VIEW PARK  
 PROJECT LOCATION: 200 SOUTH 1300 WEST MAPLE VIEW PARK, SEE COVER SHEET  
 CITY: LOGAN, UTAH 84321  
 COUNTY: CACHE  
 LATITUDE/LONGITUDE (GOOGLE EARTH)  
 LAT: 41°43'40" NORTH LONG: 111°52'03" WEST

### CONTACT INFORMATION AND RESPONSIBLE PARTIES:

OWNER: LOGAN CITY  
 290 NORTH 100 WEST  
 LOGAN, UT 84321  
 (435) 716-9152 (PUBLIC WORKS)

PROJECT MANAGER:  
 RUSS AKINA  
 LOGAN CITY ENGINEERING  
 290 NORTH 100 WEST  
 LOGAN, UT 84321  
 RUSS.AKINA@LOGANUTAH.ORG

STORMWATER MANAGER AND SWPPP CONTACT  
 TBD-THIS IS TO BE FILLED IN BY THE CONTRACTOR

LOGAN CITY REGULATORY STORMWATER INSPECTOR  
 LYNN MAYS  
 LOGAN CITY STREETS AND STORMWATER FOREMAN  
 290 NORTH 100 WEST  
 LOGAN, UT 84321  
 (435) 716-9167  
 LYNN.MAYS@LOGANUTAH.ORG

### NATURE AND SEQUENCE OF CONSTRUCTION

THE CITY IS CONSTRUCTING A PARK SOUTH OF 200 SOUTH WEST WHICH WILL INCLUDE CONCRETE SIDEWALKS, A 2 UNIT RESTROOM, PLAYGROUND BASE AND PAVILION WITH WATER, POWER AND SEWER UTILITY HOOK-UPS. THIS PROJECT WILL CONSIST OF CLEARING AND GRUBBING TOPSOIL AND VEGETATION, EXCAVATION, SHORING AND PROTECTION AND DEWATERING.

BEST MANAGEMENT PRACTICES (BMPs) FOR ALL OF THE ACTIVITIES WILL BE APPLIED TO THE SITE TO PROTECT THE LOGAN RIVER FROM POSSIBLE CONTAMINATION. BI-WEEKLY INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR'S RSI INSPECTOR FOR THE DURATION OF CONSTRUCTION.

THE FUNCTION OF THIS ACTIVITY IS PUBLIC.  
 ESTIMATED START DATE: FALL 2024  
 ESTIMATED COMPLETION: SUMMER 2025

### SOILS, SLOPES, VEGETATION, AND CURRENT DRAINAGE PATTERNS

THE SOILS ON THIS SITE ARE GREENSON LOAM, LOGAN SILTY CLAY LOAM, ROSHE SPRINGS SILT LOAM AS OBTAINED BY THE NRCS SOILS SURVEY WEBSITE. INFILTRATION RATES RANGE FROM 0.20 IN/HR TO 2.00 IN/HR.

**SLOPES:** SLOPES ON THIS PROJECT ARE 0-3%. SITE CONDITIONS ARE NOT SUBJECT TO EROSION IN THEIR PRE-CONSTRUCTION CONDITION.

**DRAINAGE PATTERNS:** DRAINAGE PATTERNS ARE SOMEWHAT POORLY DRAINED/POORLY DRAINED

**VEGETATION:** VEGETATION IS PASTURE FIELDS

### CONSTRUCTION SITE ESTIMATES

CONSTRUCTION SITE AREA TO BE DISTURBED: 1.16 ACRES  
 TOTAL PROJECT AREA: 1.16 ACRES  
 PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION: 0%  
 PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION: 28%  
 RUNOFF CN NUMBER AFTER CONSTRUCTION: 80.83  
 100-YEAR PEAK RUNOFF BEFORE CONSTRUCTION: 1.14 CFS  
 100-YEAR PEAK RUNOFF AFTER CONSTRUCTION: 2.11 CFS  
 DETENTION REQUIREMENTS: 727 CUBIC FEET

### RECEIVING WATERS

THE RECEIVING WATER FOR THIS PROJECT IS THE CUTLER RESERVOIR.

### SITE FEATURES AND SITE SENSITIVE AREAS TO BE PROTECTED

ADJACENT WETLANDS

### ENDANGERED SPECIES

THERE ARE NO ENDANGERED SPECIES ASSOCIATED WITH THIS SITE.

### HISTORIC PRESERVATION

THERE ARE NO HISTORIC SITES LISTED ON THIS PROJECT

### GENERAL LOCATION MAP

FOR THE GENERAL LOCATION MAP, SEE COVER SHEET.

### BMP EVALUATION FOR 90TH PERCENTILE STORM

THE GENERAL STORMWATER MS4 PERMIT REQUIRES PERMITTED AGENCIES TO RETAIN, INFILTRATE, OR EVAPORATE THE 90TH PERCENTILE STORM WHERE POSSIBLE.

### SWPPP REQUIREMENTS AND BMPs

- THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL INSTALL AND MAINTAIN BMPs, INSPECT AND MANAGE THE SITE, AND UPDATE AND MANAGE THE SWPPP DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE SWPPP. CONTRACTOR SHALL MAINTAIN A COPY OF THE SWPPP AT THE PROJECT SITE AT A MARKED LOCATION CONTINUOUSLY. SWPPP SHALL BE AVAILABLE FOR REVIEW DURING NORMAL WORK HOURS.
- THE CONTRACTOR SHALL ENSURE THAT NO POLLUTION LEAVES THE DESIGNATED WORK ZONE BY IMPLEMENTING STANDARD BMPs AND COMMON PRACTICES APPROVED BY THE ENGINEER AND DOCUMENTED IN THE SWPPP.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE THE STORM WATER POLLUTION PLAN FOR THIS PROJECT. THE SWPPP SHALL BE PREPARED USING THE SWPPP TEMPLATE PROVIDED BY THE UTAH DIVISION OF WATER QUALITY FOR PROJECTS EXCEEDING 1.0 ACRE. THE SWPPP SHALL BE PROVIDED TO THE LOGAN CITY STORM WATER INSPECTOR FOR REVIEW PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL NOT DISTURB ANY PORTION OF THE SITE UNTIL THE SWPPP IS APPROVED BY THE LOGAN CITY STORM WATER INSPECTOR, CONTRACTOR OBTAINS A NOTICE OF INTENT (NOI), AND CONTRACTOR OBTAINS A LOGAN CITY LAND DISTURBANCE PERMIT.
- SWPPP BMPs SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL INCLUDE THE ASSOCIATED BMPs FOR EACH OF THE POSSIBLE CONTAMINANT SOURCES INCLUDED IN THE ASSOCIATED POTENTIAL POLLUTANTS INCLUDED ON THIS SHEET. THE POTENTIAL SOURCES IN BOLD TYPE ARE EXPECTED BY THE ENGINEER TO BE THE MOST LIKELY TO CAUSE CONTAMINATION AND SHALL BE CLEARLY ADDRESSED IN THE SWPPP.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE INSPECTIONS BY A CERTIFIED RSI, OR EQUIVALENT, INSPECTOR ON A BI-WEEKLY BASIS OR MORE FREQUENT IF REQUIRED AS FOLLOWS:
  - RAINSTORM EXCEEDS  $\frac{1}{2}$  INCH OF RAIN IN 24 HOURS AS MEASURED AT EITHER THE USU WEATHER STATION OR KVNU RADIO STATION.
  - DISCHARGE FROM SITE POTENTIALLY ENTERS OR IMPACTS A WETLAND OR OTHER WATER OF THE STATE OF UTAH CONSIDERED SENSITIVE OR CURRENTLY ON OR A TRIBUTARY TO A WATER OF THE STATE OF UTAH ON THE 303-D LIST FOR IMPAIRED WATERS.
- ALL INSPECTIONS AND LOGS SHALL BE RECORDED ON A UTAH DWQ APPROVED INSPECTION FORM.
- INSPECTIONS SHALL BE CONTINUED UNTIL SITE OBTAINS PERMANENT STABILIZATION AS DEFINED BY THE UPDES CONSTRUCTION GENERAL PERMIT.
- UPON OBTAINING PERMANENT STABILIZATION, AND WITH APPROVAL FROM THE LOGAN CITY STORM WATER INSPECTOR, CONTRACTOR SHALL OBTAIN AN NOI AND SUBMIT A COPY TO ENGINEER.
- FINAL PAYMENT SHALL NOT BE PROCESSED UNTIL NOI IS PROVIDED TO ENGINEER.

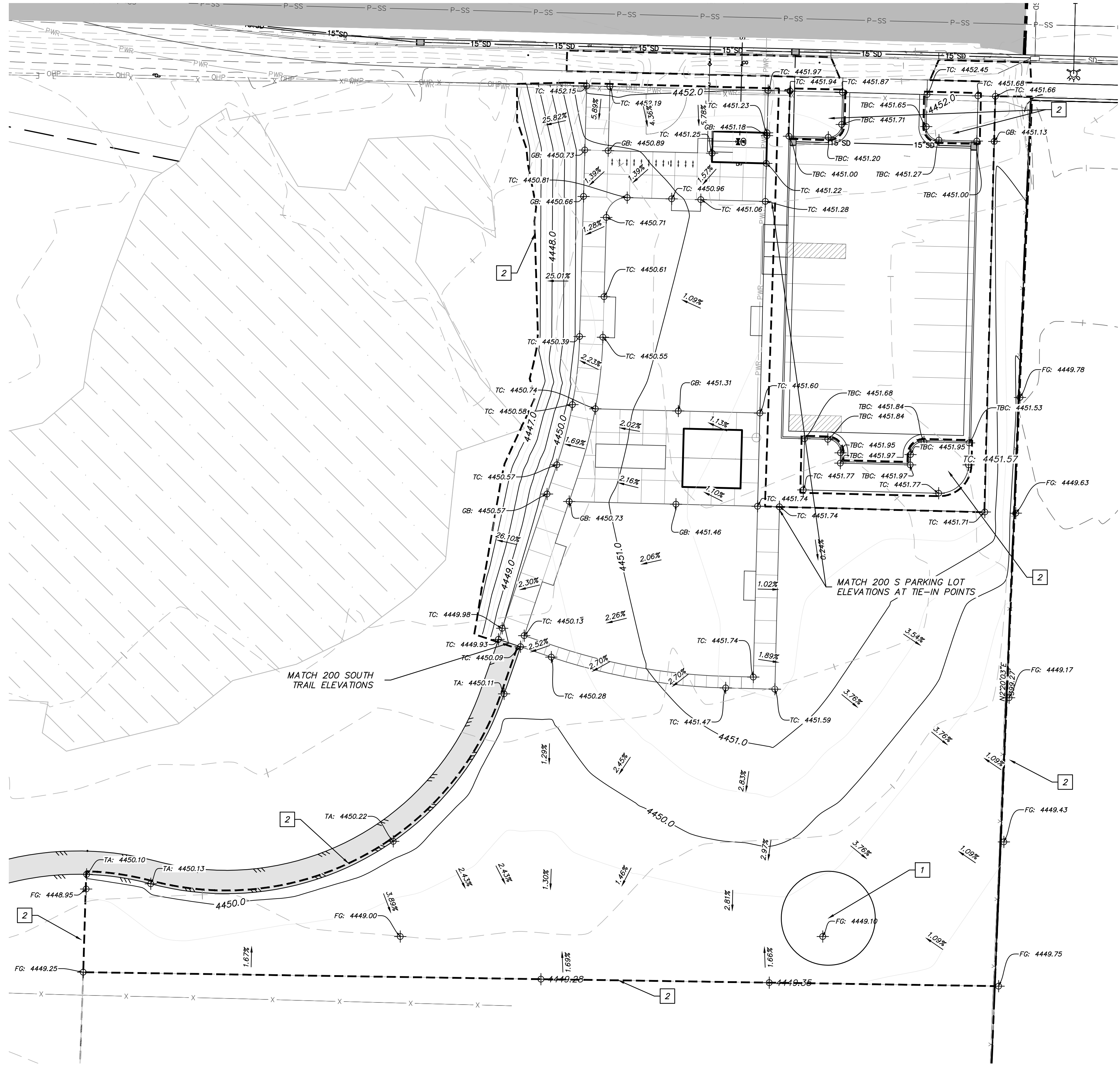
### POTENTIAL SOURCES OF POLLUTION

POTENTIAL POLLUTANT MATERIAL	ACTUAL POLLUTANT	POLLUTANT SOURCE	MANAGEMENT PRACTICE
<b>SEDIMENT/TOTAL SUSPENDED SOLIDS</b>	SEDIMENT	EROSION OF DISTURBED SOILS	MINIMIZE SOIL DISTURBANCE. INSTALL BMPs
SOILS STABILIZATION MATERIAL	VARIOUS MATERIALS BOTH FLOATABLE AND SOLUBLE	DISTURBED AREAS WHERE SLOPES OR SUSCEPTIBLE SOIL TYPES ARE EXPOSED	INSTALL SEDIMENT CONTROL BMPs
CONCRETE-WHITE/SOLID GREY	LIMESTONE, SAND, pH, CHROMIUM	EXTRA CONCRETE WHEN POURING CONCRETE	CLEAN UP EXCESS AND EXTRA CONCRETE AND DISPOSE OF AT SPECIFIED LOCATION. SEE ALSO CONCRETE WASHOUT
OILS-BROWN OILY PETROLEUM AND HYDROCARBONS	MINERAL OIL, HYDRAULIC FLUID, MOTOR OIL, ETC.	VEHICLES AND EQUIPMENT USED IN CONSTRUCTION	NO OILS WILL BE CHANGED ON SITE. LEAKS WILL BE REPAIRED IMMEDIATELY.
<b>ASPHALT AND PAVING - BLACK SOLIDS</b>	OIL AND PETROLEUM DISTILLAGES	ASPHALT PAVING OPERATIONS	PAVING OPERATIONS WILL NOT BE PERFORMED WITHIN 8 HOURS OF EXPECTED STORMS EXCEEDING 0.5 INCH.
<b>GREASE</b>	GREASE AND LUBE OIL	VEHICLES AND EQUIPMENT USED IN CONSTRUCTION	KEEP EQUIPMENT CLEAN AND WIPED DOWN
<b>ANTIFREEZE</b>	ETHYLENE GLYCOL	ENGINE COLLUANT	FIX LEAKS IMMEDIATELY. REPAIRS WILL NOT BE MADE ON SITE
<b>CONSTRUCTION DEWATERING</b>	TSS/SEDIMENTS	DEWATERING ACTIVITIES	CONTRACTOR TO OBTAIN PERMIT IF DEWATERING IS REQUIRED.
<b>FUELS</b>	BENZENE, ETHYL BENZENE, TOULENE, XYLENE, MTBE, PETROLEUM DISTALLATE, OILS/GREASES, NAPHTHALEN, COAL OIL	USED IN VEHICLES AND POWER EQUIPMENT	FUELING WILL NOT BE ALLOWED ON SITE UNLESS OVER AN IMPERMEABLE SURFACE WITH AN EMERGENCY CLEANUP KIT AT THE LOCATION
PESTICIDES AND INSECTICIDES, FUNGICIDES, HERBICIDES, AND RODENTICIDES	CHLORINATED HYDROCARBONS, ORANOPHOSPHATES, CARBAMATES, ARSENIC	USED FOR CONTROL OF PESTS DURING REVEGETATION	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS OR LEFT OVER PESTICIDES WILL BE IMMEDIATELY REMOVED FROM SITE
<b>CONCRETE CURING COMPOUNDS - CREAMY WHITE LIQUID</b>	WHITE PIGMENTED LIQUID TYPE 2. (VARIES BY MANUFACTURER)	USED FOR CONTROL OF CONCRETE CURING	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS OR LEFT OVER WILL BE REMOVED FROM SITE
<b>CONCRETE WASHOUT WATER</b>	pH	CONCRETE TRUCKS AND PUMP TRUCKS	WASH WATER FROM CONCRETE TRUCKS WILL BE CONTAINED IN A LEAK PROOF LOCATION DESIGNATED BY THE CONTRACTOR
<b>TRASH</b>	SOLID WASTES	TRASH LEFT OVER FROM CONSTRUCTION ACTIVITIES	REMOVE ALL TRASH FROM SITE DAILY. DO NOT DISPOSE OF TRASH IN HOLES OR TRENCHES
<b>SANITARY WASTE MANAGEMENT</b>	BACTERIA, PARASITES, VIRUSES	FECAL COLIFORM, BACTERIA ASSOCIATED WITH HUMAN OR ANIMAL WASTES	NO PUBLIC RESTROOMS AVAILABLE. CONTRACTOR SHALL PROVIDE PORTABLE FACILITIES AND ENSURE THEY ARE SECURED FROM TIPPING AND ARE MAINTAINED
<b>FERTILIZERS - LIQUID AND SOLID GRAIN</b>	NITROGEN, PHOSPHORUS	FERTILIZERS USED IN RESTORING VEGETATION	APPLICATION WILL BE PER MANUFACTURER INSTRUCTIONS. EXCESS WILL BE PROMPTLY REMOVED FROM SITE

### BEST MANAGEMENT PRACTICES

SPECIFIC BMPs WILL BE SPECIFIED BY THE CONTRACTORS SWPPP.

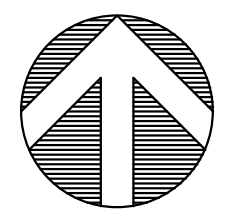
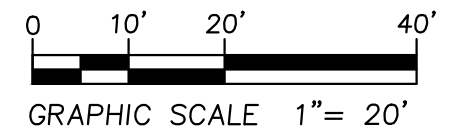




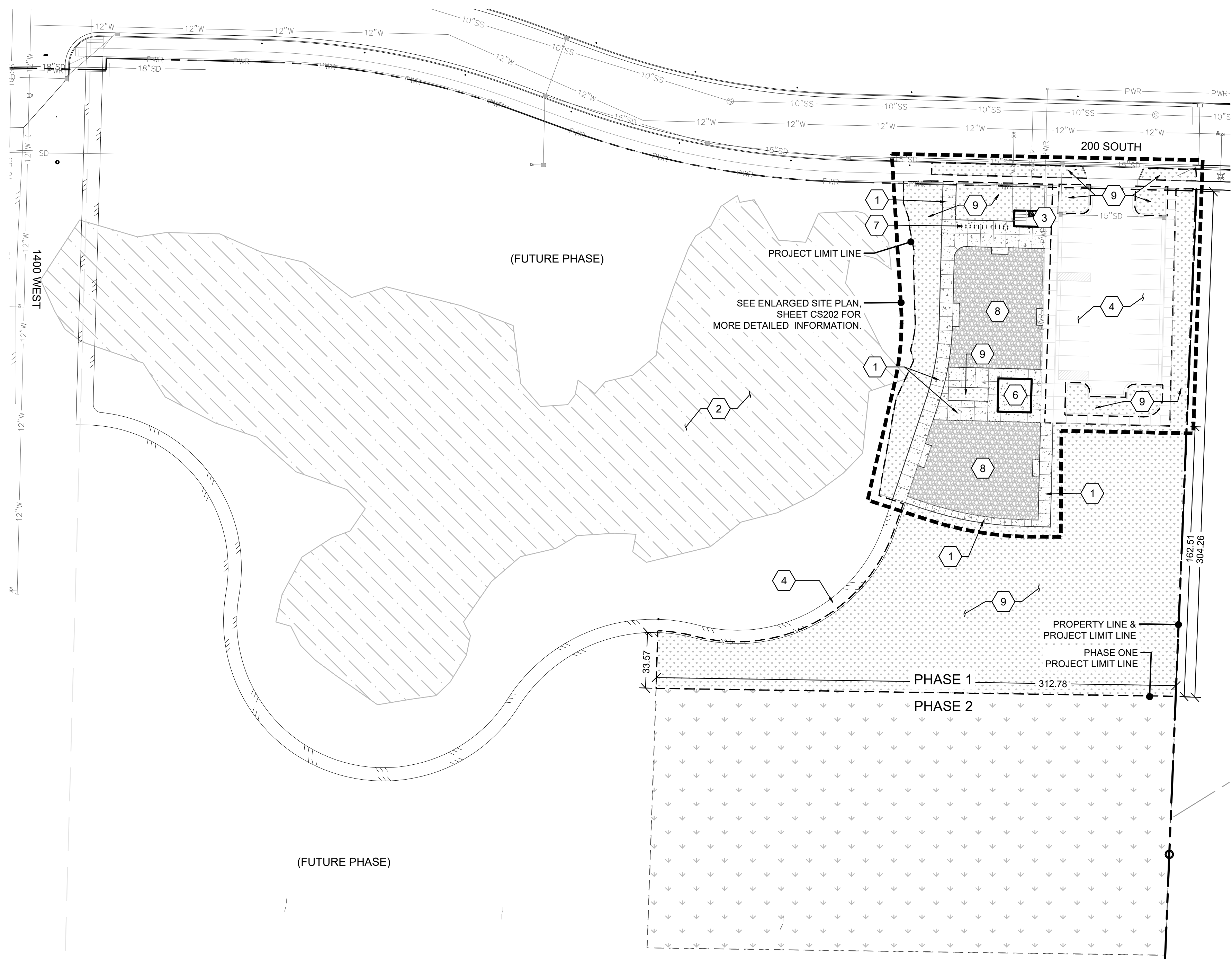
### DEMOLITION NOTES

- 1 REMOVE TREE
- 2 CLEAR AND GRUB AREA WITH PROJECT LIMITS

**SITE DEMOLITION AND GRADING PLAN**  
SCALE: 1" = 20'



NO.: DATE:	DESCRIPTION:
<b>SITE GRADING PLAN</b>	
<b>MAPLE VIEW PARK</b> <b>200 SOUTH 1400 WEST</b> LOGAN, UTAH, 84321	
95 Golf Course Rd. Suite 101 Logan, UT 84321 435.713.0099	
DATE: 03 DECEMBER 2024	
SCALE: 1" = 20'	
DESIGN BY: J. MAUGHAN	
CHECKED BY: L. ANDERSON	
APPROVED BY: L. ANDERSON	
PROJECT NUMBER: 620-2005	
SHEET:	



**KEY NOTES**

- 1 CONSTRUCT STANDARD CONCRETE. SEE DETAIL 1/C-501
- 2 WETLAND AREA TO BE PRESERVED IN PLACE.
- 3 2 STALL CTX RESTROOM TO BE PROVIDED AND INSTALLED BY CITY, EXCEPT FOR UTILITIES. ALL UTILITY CONNECTIONS TO BE COMPLETED BY CONTRACTOR IN COLLABORATION WITH CITY INSTALLATION. SEE UTILITY PLAN CU301.
- 4 8' WIDE ASPHALT TRAIL AND PARKING LOT CONSTRUCTED AS PART OF 200 SOUTH ROADWAY PROJECT, SEE 200 SOUTH CIVIL PLANS.
- 5 PARKING LOT CONSTRUCTED AS PART OF 200 SOUTH ROADWAY PROJECT, SEE 200 SOUTH CIVIL PLANS.
- 6 PROVIDE AND INSTALL 20' X 20' WITH CLERESTORY ROOF PAVILION, 'STATUARY BRONZE' STEEL COLUMNS AND 'SURREY BEIGE - 24 GA' METAL ROOFING, PER MANUFACTURER SPECIFICATIONS. FOOTINGS MUST BE COORDINATED WITH CONCRETE INSTALLATION. STAMPED PLANS REQUIRED. FOUND AT STEEL WORKS IN SPANISH FORK, (Russel Smith 801-414-1724, russelsmith@gmail.com).
- 7 INSTALL BIKE RACKS. SEE ENLARGED SITE PLAN CS202 AND DETAIL 11/C-503.
- 8 INSTALL 12" DEEP 3/4" COMPACTED GRAVEL BASE 8" BELOW FINISHED GRADE OF CONCRETE. SEE CIVIL DETAILS.
- 9 INSTALL LANDSCAPE - SEE PLANTING PLAN LP101 AND IRRIGATION PLAN LI201

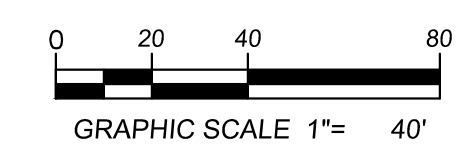
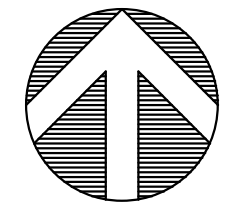
**HATCH AND LINE LEGEND**

- LANDSCAPE PHASE ONE
- LANDSCAPE PHASE TWO
- STANDARD CONCRETE (NEW CONSTRUCTION)
- PALUSTRINE EMERGENT WETLANDS
- COMPACTED GRAVEL BASE

**SITE PLAN NOTES**

- 1. SEE SHEET C000 FOR GENERAL NOTES.
- 2. SEE SHEET CU301 FOR UTILITY PLAN.
- 3. SEE SHEET CG401 FOR GRADING PLAN.
- 4. SEE SHEET C-501 FOR DETAILS.
- 5. ALL DIMENSIONS TO FRONT OF CURB EXCEPT RADII.
- 6. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
- 7. ALL WORK TO COMPLY WITH GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
- 8. ALL IMPROVEMENTS TO COMPLY WITH ADA STANDARDS.
- 9. ALL PAVEMENT MARKINGS TO CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

**OVERALL SITE PLAN**  
SCALE: 1" = 40'



DESCRIPTION:	
NO.:	
DATE:	

**OVERALL SITE PLAN**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

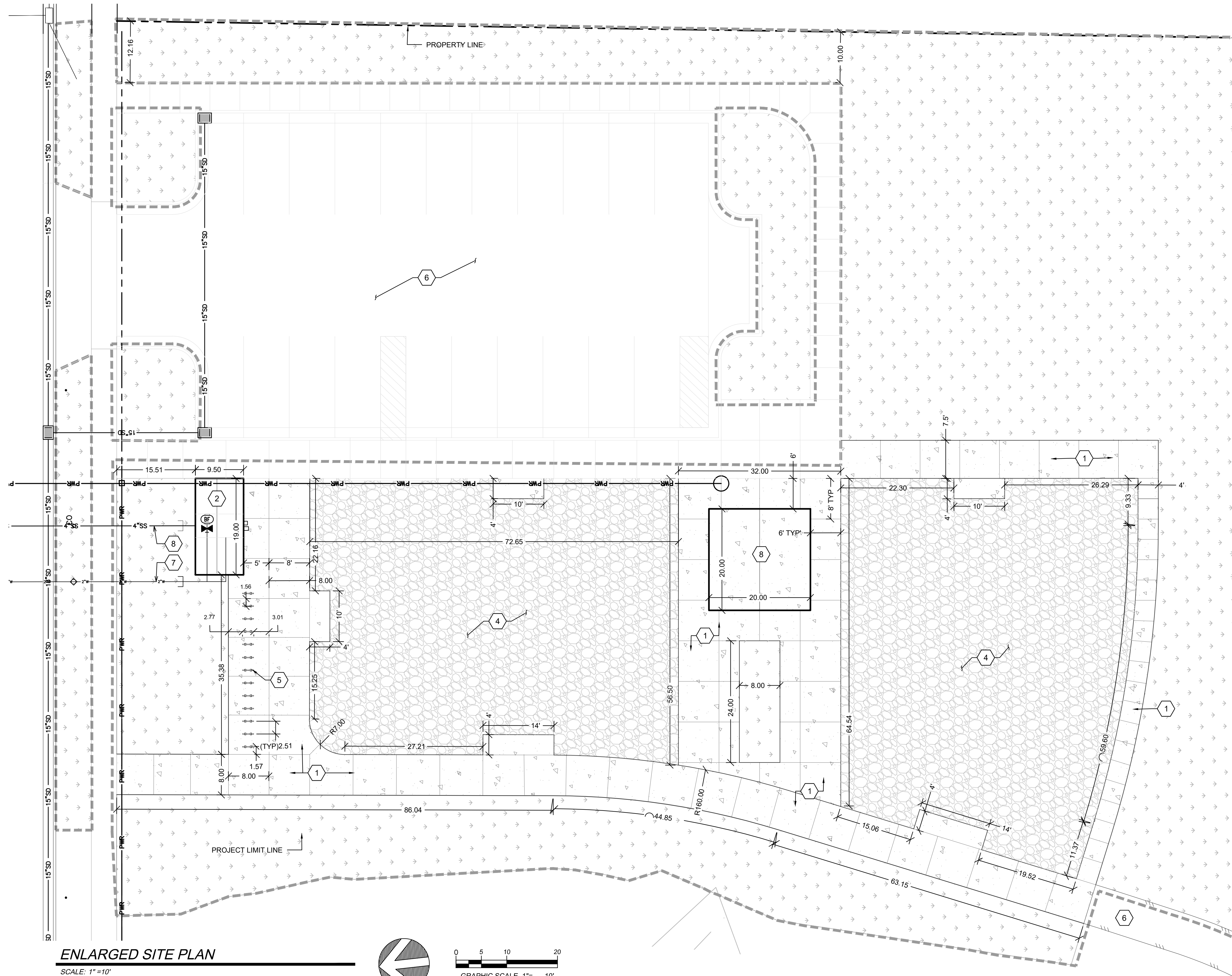
**CL**  
Cache • Landmark  
Engineers  
Surveyors  
Planners  
95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024  
SCALE: 1" = 30'  
DESIGN BY: J. MAUGHAN  
CHECKED BY: L. ANDERSON  
APPROVED BY: L. ANDERSON  
PROJECT NUMBER: 620-2005

SHEET: **CS201**

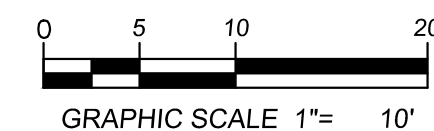
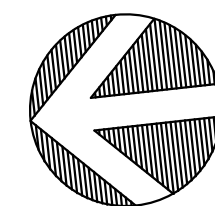
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200 SOUTH



**ENLARGED SITE PLAN**

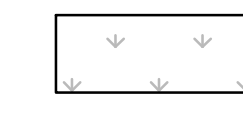
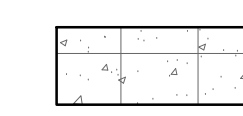
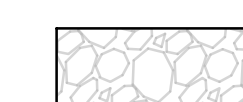
SCALE: 1" = 10'



**KEY NOTES**

- 1 CONSTRUCT STANDARD CONCRETE, DETAIL 1/C-501
- 2 2 STALL CTX RESTROOM TO BE PROVIDED AND INSTALLED BY CITY. SEE GRADING PLAN FOR FINISHED FLOOR. ALL UTILITY CONNECTIONS TO BE COMPLETED BY CONTRACTOR IN COLLABORATION WITH CITY INSTALLATION. SEE UTILITY PLAN CU301.
- 3 PROVIDE AND INSTALL 20' X 20' WITH CLERESTORY ROOF PAVILION, 'STUATJARY BRONZE' STEEL COLUMNS AND 'SURREY BEIGE - 24 GA' METAL ROOFING, PER MANUFACTURER SPECIFICATIONS. FOOTINGS MUST BE COORDINATED WITH CONCRETE INSTALLATION. STAMPED PLANS REQUIRED. FOUND AT STEEL WORKS IN SPANISH FORK, (Russel Smith 801-414-1724, russelsmith@gmail.com).
- 4 INSTALL 12" COMPACTED GRAVEL BASE MATERIAL TO 8" BELOW FINISHED CONCRETE. DETAIL 3/C-501. SEE GRADING PLAN FOR FINISHED ELEVATIONS.
- 5 INSTALL BIKE RACKS PER MANUFACTURERS RECOMMENDATION AND SPECIFICATIONS, DETAIL 4/C-501.
- 6 PARKING LOT, ADJACENT SIDEWALKS AND 8' WIDE ASPHALT TRAIL PART OF 200 SOUTH ROAD PROJECT.
- 7 NEW WATER LINE METER AND STUB, SEE 200 SOUTH ROAD PROJECT, UTILITY PLAN CU201, AND IRRIGATION PLAN DETAIL 1/L-505 TO COORDINATE 2" METER AND SERVICE LINE CONNECTION TO CXT RESTROOM AND IRRIGATION BACK FLOW POC ASSEMBLY. ALL CONNECTIONS MUST MEET CITY AND APWA SPECIFICATIONS.
- 8 NEW SEWER LINE STUB AND CLEAN-OUT INSTALLED AS PART OF 200 SOUTH ROAD PROJECT, SEE UTILITY PLAN, CU201 - CONNECTION TO CXT RESTROOM MUST MEET ALL MANUFACTURE SPECIFICATIONS, CITY AND APWA SPECIFICATIONS.

**HATCH AND LINE LEGEND**

-  LANDSCAPE
-  STANDARD CONCRETE
-  12" COMPACTED GRAVEL BASE

**SITE PLAN NOTES**

1. SEE SHEET C000 FOR GENERAL NOTES.
2. SEE SHEET CU301 FOR UTILITY PLAN.
3. SEE SHEET CG401 FOR GRADING PLAN.
4. SEE SHEET C-501 FOR DETAILS.
5. ALL DIMENSIONS TO FRONT OF CURB EXCEPT RADII.
6. ALL EXISTING HARDSCAPE FEATURES, LANDSCAPING AND IRRIGATION SYSTEMS THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION ARE TO BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
7. ALL WORK TO COMPLY WITH GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS.
8. ALL IMPROVEMENTS TO COMPLY WITH ADA STANDARDS.
9. ALL PAVEMENT MARKINGS TO CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

DESCRIPTION:

NO. DATE:



SHEET DESCRIPTION:

**ENLARGED  
SITE PLAN**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321



Cache • Landmark  
Engineers  
Surveyors  
Planners

95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024

SCALE: 1" = 10'

DESIGN BY: J. MAUGHAN

CHECKED BY: L. ANDERSON

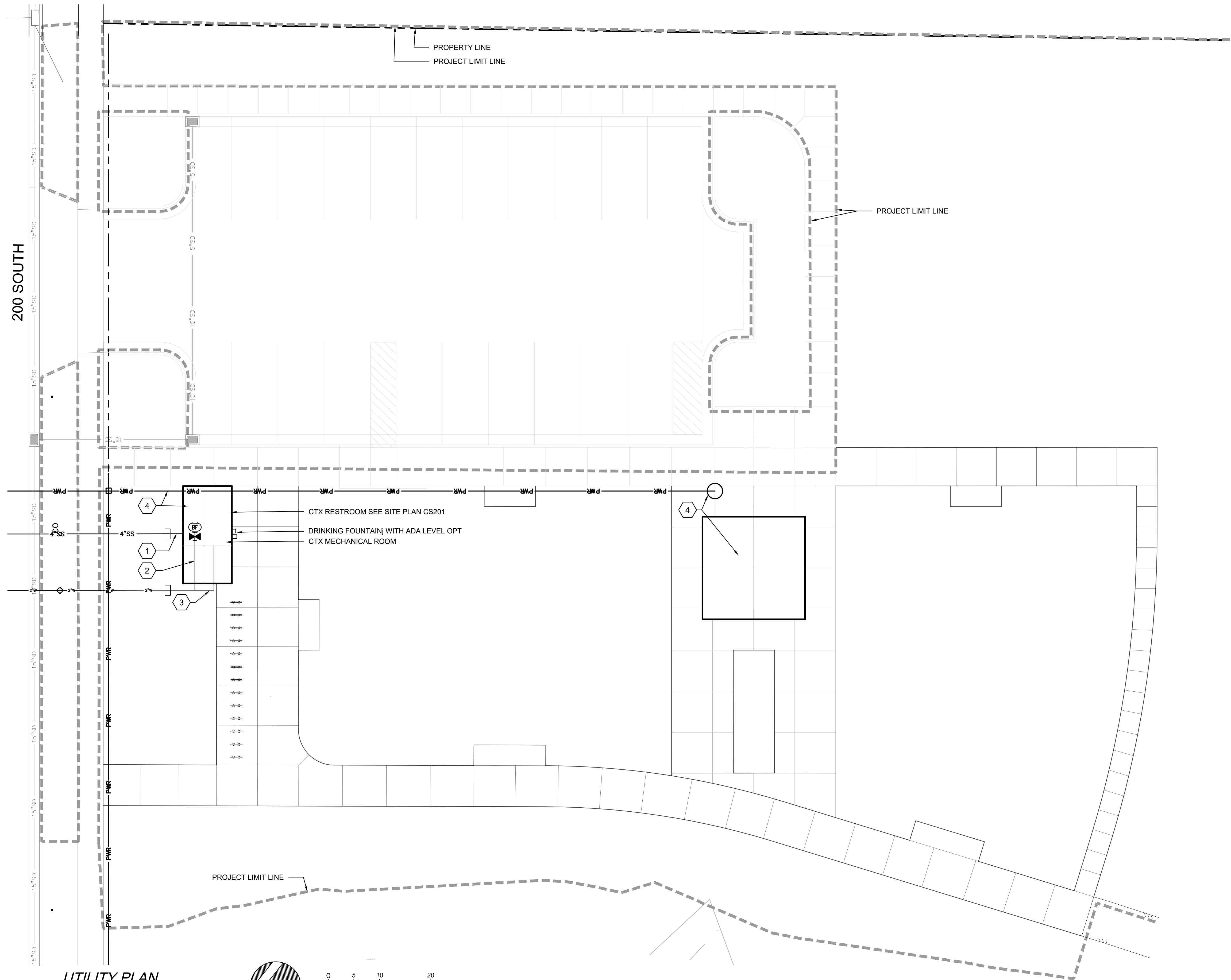
APPROVED BY: L. ANDERSON

PROJECT NUMBER: 620-2005

SHEET:

**CS202**

*BID SET*



**KEY NOTES**

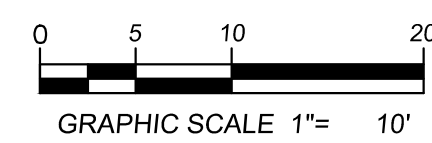
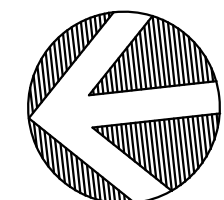
- 1 INSTALL SEWER CONNECTION, SEE 5/C-501.
- 2 POC BACKFLOW ASSEMBLY - SEE IRRIGATION DETAILS 1/L-505. INSTALL BACKFLOW PREVENTER POC CONNECTION. LOCATE INSIDE MECHANICAL ROOM OF CXT RESTROOM. SEE IRRIGATION PLAN LI201.
- 3 INSTALL 1" SERVICE LINE TO RESTROOM.
- 4 ELECTRICAL PROVIDED BY LOGAN CITY POWER. ELECTRICAL TO BE COORDINATED WITH 200 SOUTH PROJECT. ELECTRICAL PANEL TO BE LOCATED INSIDE MECHANICAL ROOM OF RESTROOM. LIGHTING AND OUTLETS TO BE INSTALLED AT PAVILION AND RESTROOM BY CONTRACTOR AND INCLUDE ALL PANELS. ELECTRICAL OUTLETS, APPLIANCES, OR ANY ELEMENT THAT REQUIRES ELECTRICAL CONNECTIONS AS SHOWN ON RESTROOM AND PAVILION MANUFACTURER SPECIFICATIONS AND PLANS

**UTILITY GENERAL NOTES**

- 1. SEE SHEET C001 FOR GENERAL NOTES AND LEGEND.

**UTILITY PLAN**

SCALE: 1" = 10'



DESCRIPTION:

NO.: DATE:



SHEET DESCRIPTION:

**UTILITY PLAN**

**MAPLE VIEW PARK**  
 200 SOUTH 1400 WEST  
 LOGAN, UTAH, 84321



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 Planners

95 Golf Course Rd.  
 Suite 101  
 Logan, UT 84321  
 435.713.0099

DATE:  
 03 DECEMBER 2024

SCALE:  
 1" = 10'

DESIGN BY:  
 J. MAUGHAN

CHECKED BY:  
 L. ANDERSON

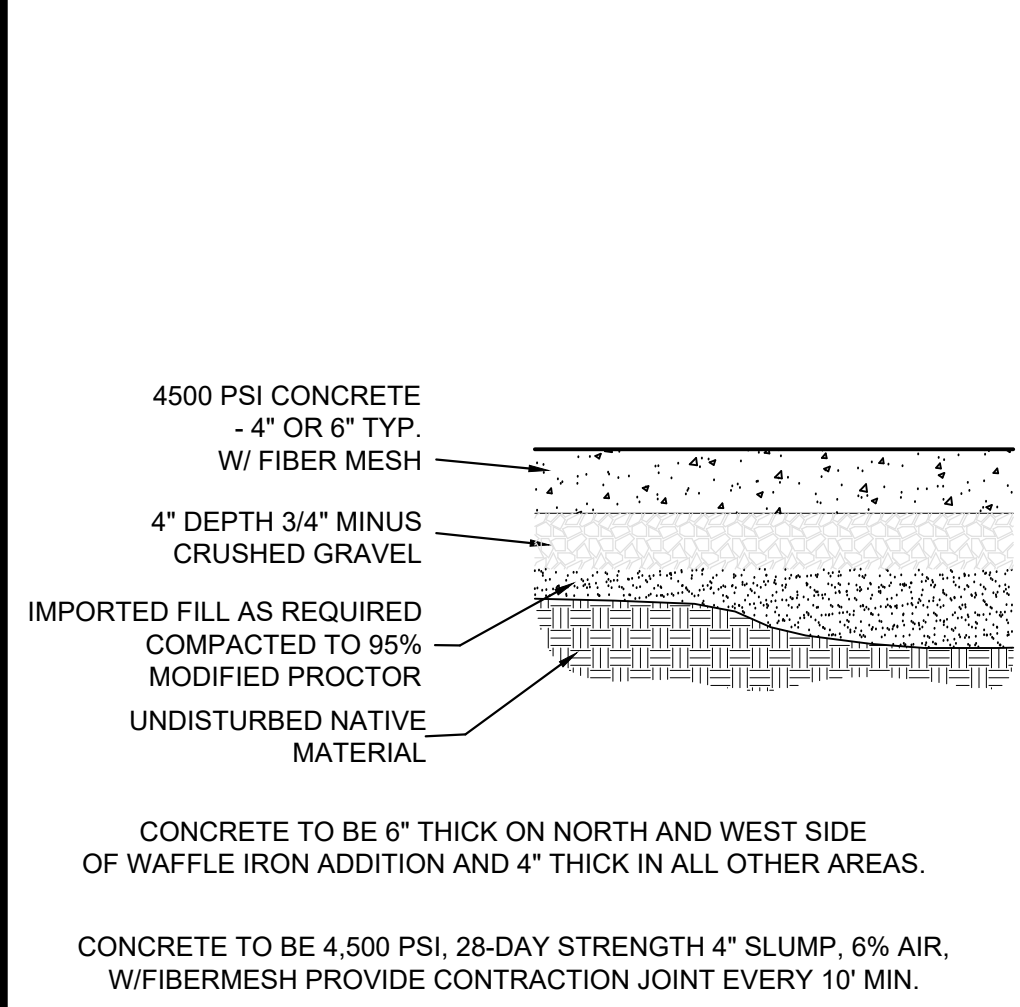
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 L. ANDERSON

PROJECT NUMBER:  
 620-2005

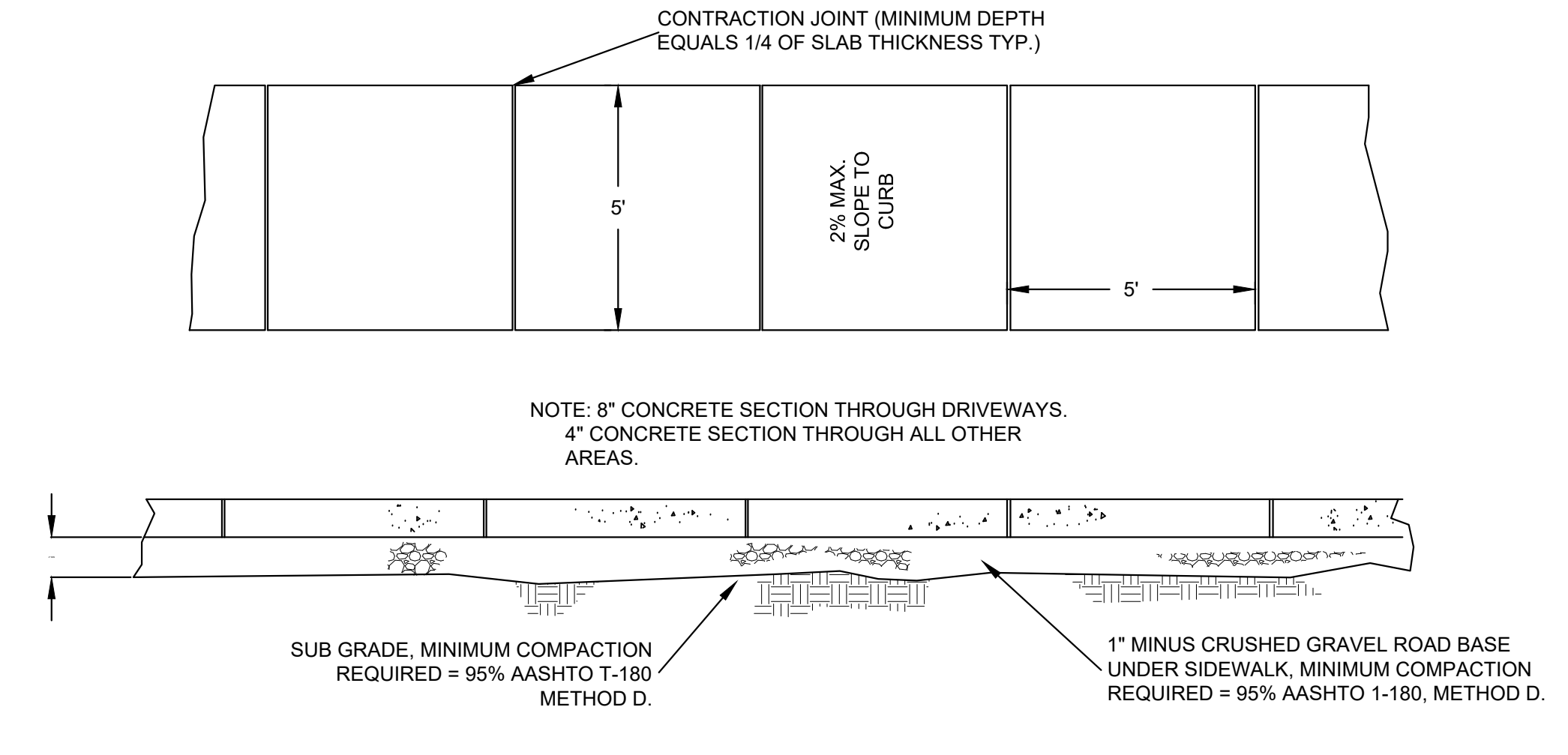
SHEET:

**CU301**

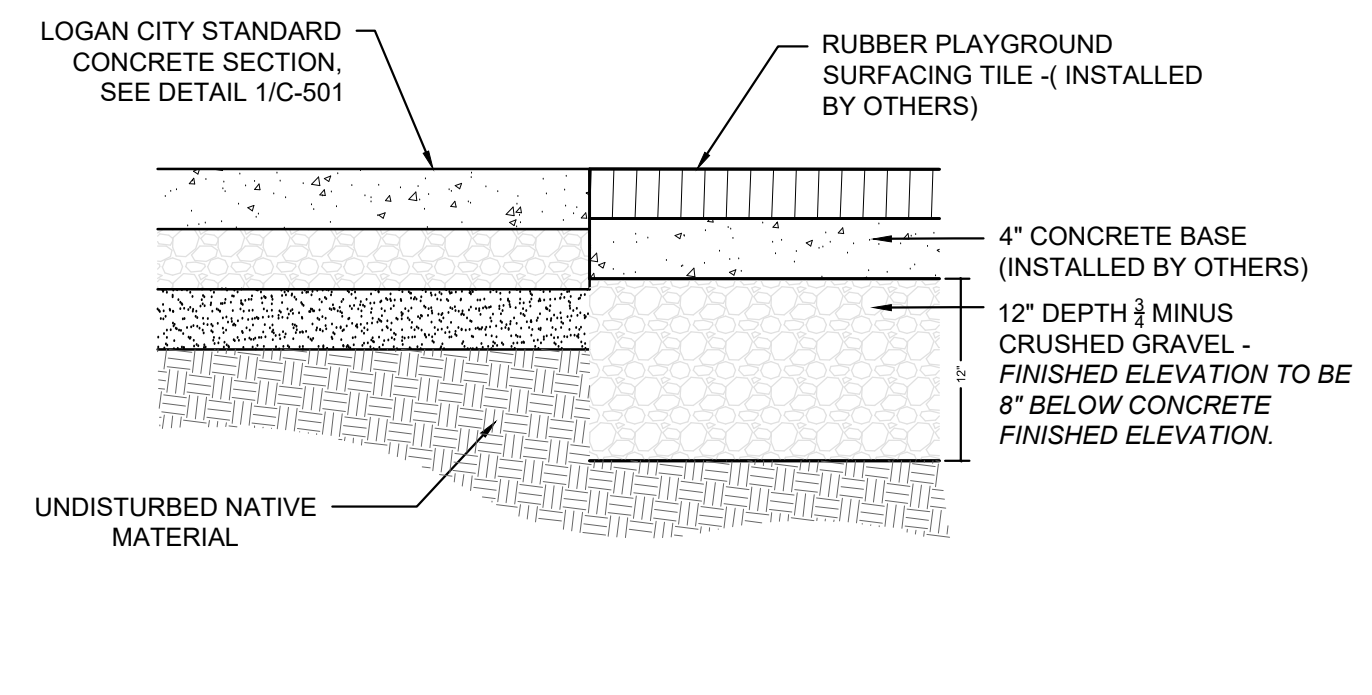
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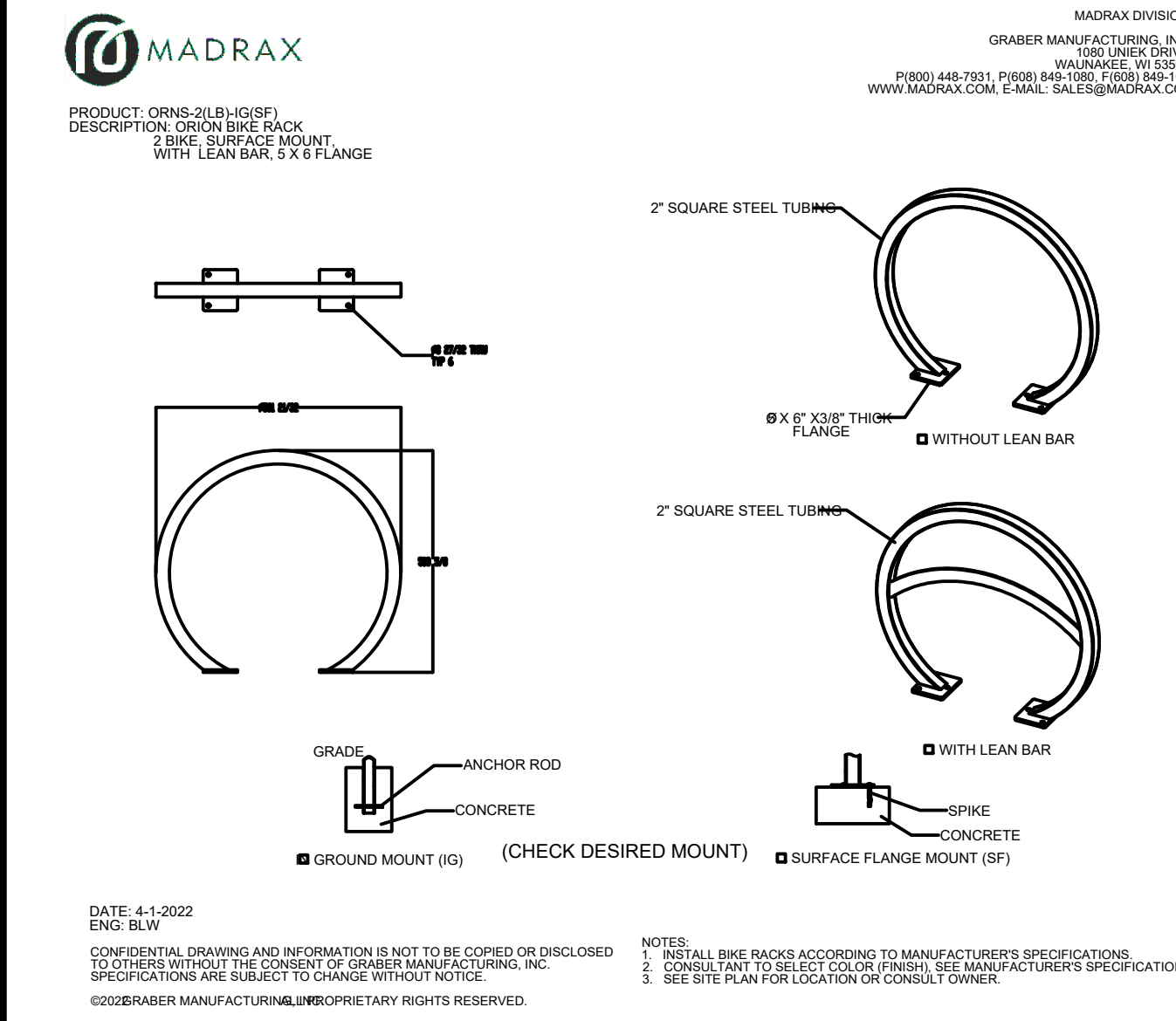
**1 STANDARD CONCRETE DETAIL**  
1" = 1'-0" 0347-06



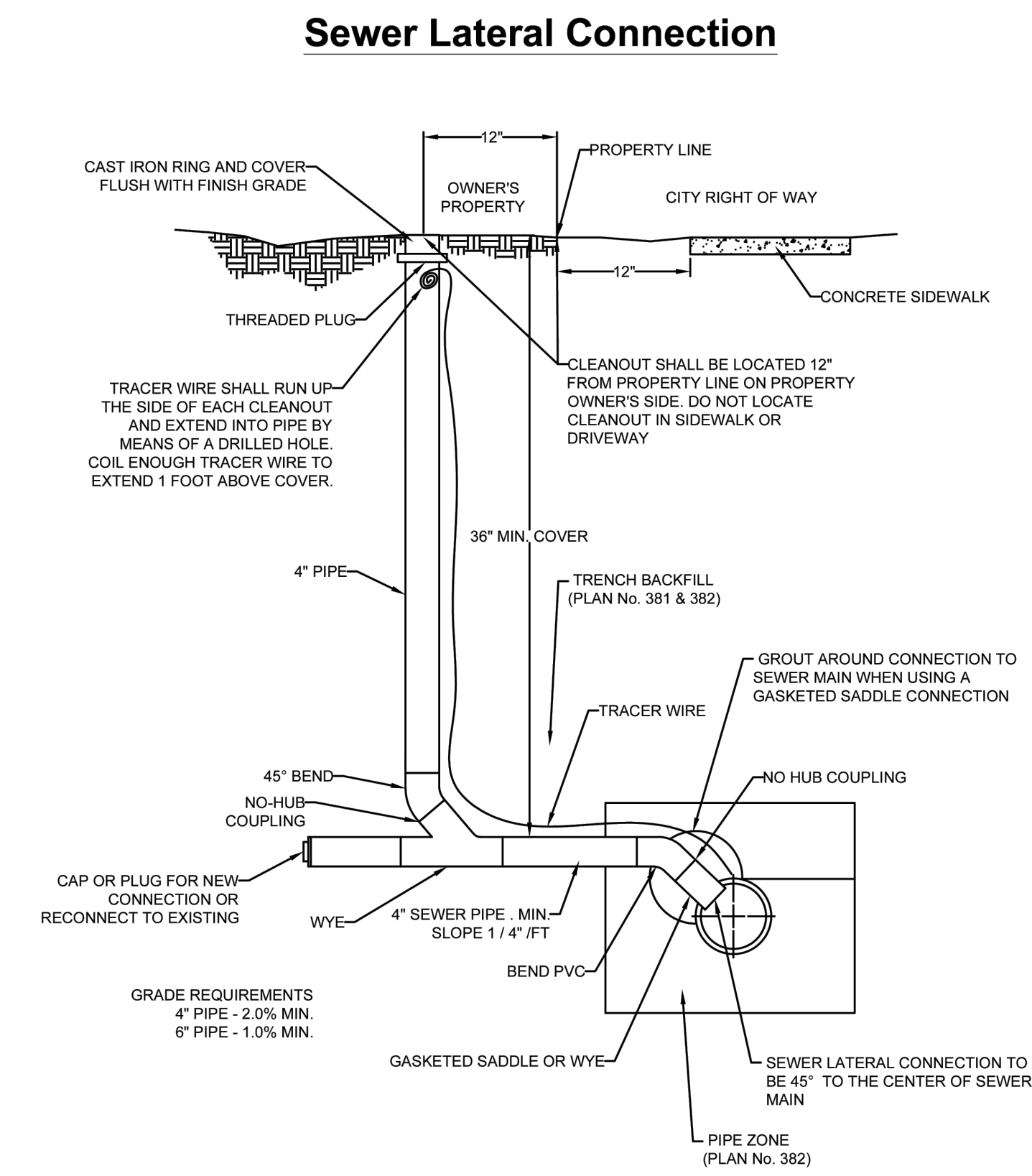
**2 STANDARD CONCRETE SECTION**  
1" = 1'-0" 0347-03



**3 RUBBER TILE SURFACING SECTION**  
1/2" = 1'-0" 224713-01



**5 MADRAX ORION BIKE RACK ARIAL**  
1/2" = 1'-0" 323313-03



\* See the City Approved Materials List

	STANDARD	SEWER LATERAL CONNECTION	DETAIL NO.
	DETAIL	REVISION DATE: 2/22/2024	431

**5 SEWER LATERAL CONNECTION**

DESCRIPTION:  
NO.:  
DATE:

CIVIL  
DETAILS

MAPLE VIEW PARK  
200 SOUTH 1400 WEST  
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Planners

95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE:  
03 DECEMBER 2024

SCALE:  
na

DESIGN BY:  
J. MAUGHAN

CHECKED BY:  
L. ANDERSON

APPROVED BY:  
L. ANDERSON

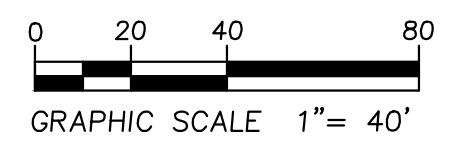
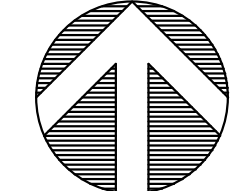
PROJECT NUMBER:  
620-2005

SHEET:

BID SET **C-501**



**OVERALL PLANTING PLAN**  
SCALE: 1" = 40'



**OVERALL PLANT SCHEDULE**

SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	QTY	DETAIL
<b>TREES</b>					
	BETULA NIGRA 'CULLY IMPROVED' TM	HERITAGE IMPROVED RIVER BIRCH	15 GAL - 1.5" CAL	4	1/L-501
	CORNUS CONTROVERSA	GIANT DOGWOOD	15 GAL - 1.5" CAL	5	1/L-501
	GLEDITSIA TRIACANTHOS INERMIS 'MORAIN'	MORAIN HONEYLOCUST	15 GAL - 1.5" CAL	6	1/L-501
	GYMNOCLADUS DIOICA 'ESPRESSO'	KENTUCKY COFFEETREE	15 GAL - 1.5" CAL	3	1/L-501
	LIRIODENDRON TULIPIFERA 'LITTLE VOLUNTEER'	LITTLE VOLUNTEER TULIP TREE	15 GAL - 1.5" CAL	2	1/L-501
	PICEA PUNGENS	COLORADO SPRUCE	B&B - 6' HEIGHT MIN	8	2/L-501
	PINUS NIGRA	AUSTRIAN PINE	B&B - 6' HEIGHT MIN	3	2/L-501
<b>SHRUBS</b>					
SEE ENLARGED PLANTING PLAN LP102					
<b>GROUND COVERS</b>					
	EXISTING NATIVE GRASS AREA TO BE RE-SEEDING AS NEEDED - APPLY PER SUPPLIER RECOMMENDATION - HOLD BACK 3' MINIMUM (6" TREE RING) FROM AROUND BASE OF TREES.		2,882 SF	8/L-501	
	3" DEEP GREY FRACTURED GRANITE MULCH, FOUND AT ROCKY MOUNTAIN LANDSCAPE, OR APPROVED EQUAL.		1,342 SF	6/L-501	
	SOD: TURF DROUGHT TOLERANT KENTUCKY BLUE GRASS BLEND.		34,000 SF	6/L-501	

**BOULDER SCHEDULE - SEE ENLARGED PLAN**

SYMBOL	DESCRIPTION	QTY	DETAIL
	3' LANDSCAPE BOULDER	5	5/L101
	4' LANDSCAPE BOULDER	3	5/L101
	5' + LANDSCAPE BOULDER	1	5/L101

**PLANTING KEYED NOTES:**

- 1 PROVIDE 6' MIN DIAMETER TURF AND VEGETATION FREE RING AROUND ALL NEW TREES IN TURF OR NATIVE VEGETATED AREAS
- 2 LANDSCAPE BOULDERS, SEE ENLARGED PLAN LP102 FOR MORE INFORMATION.
- 3 SEE DETAIL 8/L-501 FOR TREE PLANTING ON SLOPE.

**PLANTING GENERAL NOTES**

1. PLANTING PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PLANT QUANTITIES AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANT SYMBOLS AND QUANTITIES PRIOR TO PURCHASE ORDER.
2. ALL PLANT MATERIALS SHALL MEET OR EXCEED SIZE IN SCHEDULES. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE PLANT MATERIALS WHICH DO NOT MEET THE QUALITY AS DEFINED IN ANSI Z.60 AMERICAN STANDARDS FOR NURSERY STOCK. SEE SELECTION OBSERVATION & CORRECTION DETAILS SHEET L-502 & L-503
3. PRESERVATION OF TOPSOIL IS PARAMOUNT. TOPSOIL SHALL BE STRIPPED FROM CONSTRUCTION AREAS AND TEMPORARILY STOCKPILED ON-SITE. TOPSOIL IS TO BE STRIPPED WHEN CONDITIONS ARE FAVORABLE (IE. NOT SATURATED OR TOO MOIST) AND SHALL NOT BE COMPACTED ANY MORE THAN NECESSARY TO TRANSPORT IT FROM ONE AREA TO ANOTHER
4. 12" DEEP AMENDED PLANT BACKFILL MATERIAL SHALL BE A MIXTURE OF THREE (3) PARTS TOPSOIL TO ONE (1) PART PEAT MOSS AND SHALL BE MIXED ON-SITE.
5. AMENDED TOPSOIL SHALL CONSIST OF 80% EXCAVATED OR IMPORTED TOPSOIL - 10% SOIL PEP - 10% UTELITE. TOPSOIL SOURCE TO BE APPROVED BY OWNER PRIOR TO IMPORT. AMENDMENTS SHALL BE MIXED ON SITE. CONTRACTOR SHALL ASSUME A TOPSOIL SETTLING FACTOR OF 10-15%.
6. ALL PLANTING BEDS TO RECEIVE 12" AMENDED TOPSOIL, WITH 4" DEEP STONE MULCH AS SPECIFIED IN PLANT GROUNDCOVER SCHEDULE.
7. ALL TURF AREAS TO RECEIVE 12" AMENDED TOPSOIL.
8. ALL PLANTINGS SHALL RECEIVE TWENTY-ONE (21) GRAM TABLETS OF "AGRIFORM" PLANT FERTILIZER (OR APPROVED EQUAL) TO BE PLACED AS SHOWN IN DETAILS AND PER MANUFACTURERS RECOMMENDATIONS.
9. TREES PLANTED ADJACENT TO PUBLIC ROADS AND/OR PEDESTRIAN WALKWAYS SHALL BE PRUNED TO SEVEN (7) FEET HEIGHT CLEARANCE ABOVE PAVEMENT.
10. CONTRACTOR TO PROVIDE AUTOMATIC IRRIGATION SYSTEM WITH BACKFLOW PREVENTER FOR ALL LANDSCAPE AREAS - BACK FLOW SHALL MEET ALL CURRENT STATE AND LOCAL CODES FOR HIGH HAZARD BACKFLOW PREVENTION.

BID SET

DESCRIPTION:

NO. DATE:

SHEET DESCRIPTION:

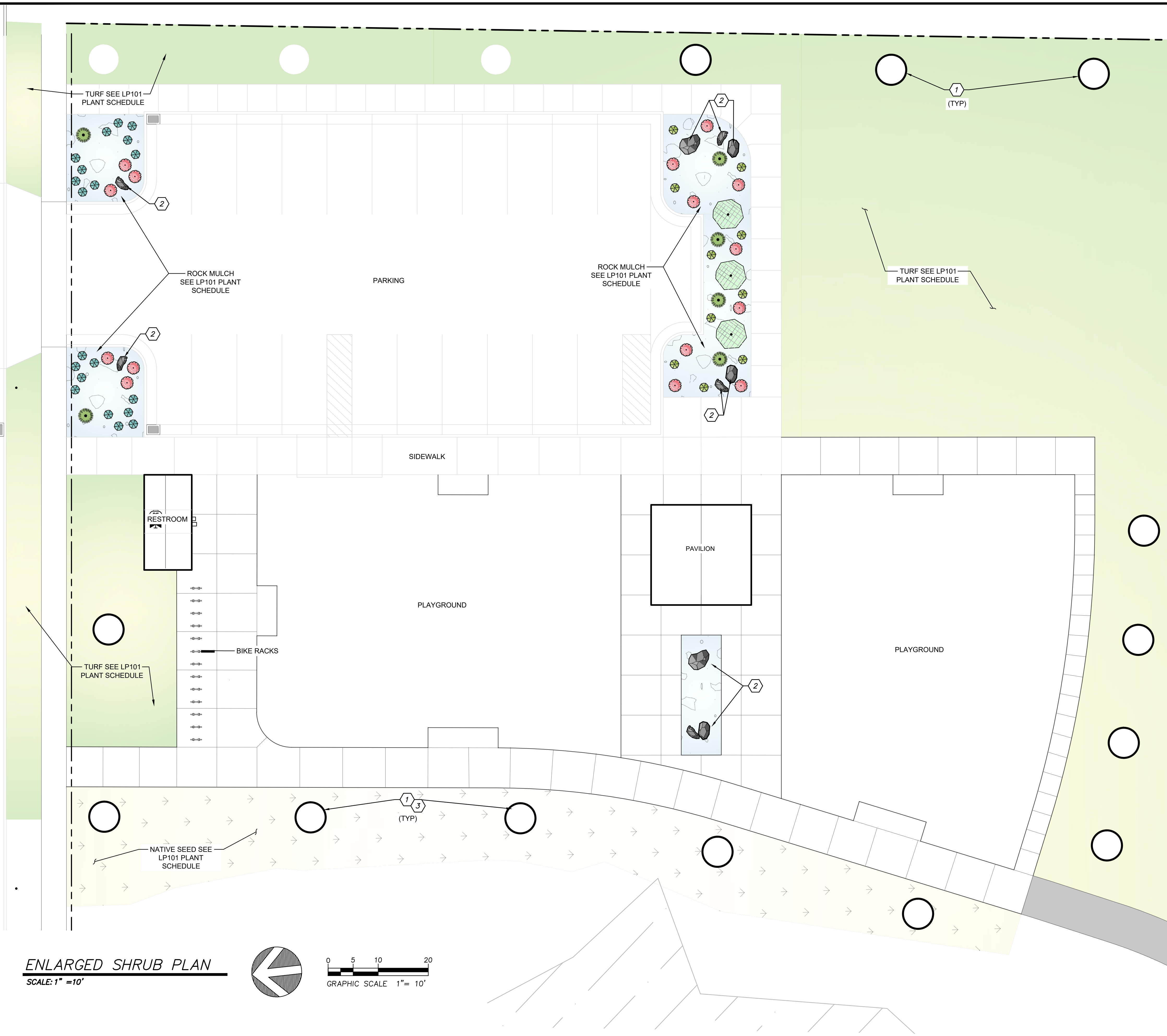
**OVERALL PLANTING PLAN**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

**CL**  
Cache • Landmark  
Engineers  
Surveyors  
Planners  
95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024  
SCALE: 1" = 40'  
DESIGN BY: J. MAUGHAN  
CHECKED BY: J. MAUGHAN  
APPROVED BY: J. MAUGHAN  
PROJECT NUMBER: 620-2005  
SHEET: LP101





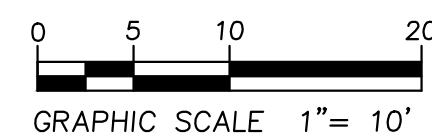
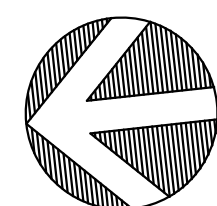
**PLANT SCHEDULE ENLARGED**

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	DETAIL
<b>SHRUBS</b>				
	CAREX DIVULSA	BERKELEY SEDGE	10	4/L-501
	CAREX FLACCA 'BLUE ZINGER'	BLUE ZINGER SEDGE	20	4/L-501
	CORNUS ALBA 'BALHALO'	IVORY HALO® TATARIAN DOGWOOD	3	3/L-501
	MAHONIA FREMONTII	DESERT MAHONIA	2	3/L-501
	PINUS MUGO 'SLOWMOUND'	SLOWMOUND MUGO PINE	6	3/L-501
	ROSA X 'MEIDRIFORA'	CORAL DRIFT® GROUNDCOVER ROSE	13	3/L-501
	3' - 5' MCQUIRE PIT LANDSCAPE BOULDERS, OR APPROVED EQUAL, MIN 2' ANY DIRECTION, SEE BOULDER SCHEDULE LP101		7	5/L-501

**PLANTING KEYED NOTES:**

- ① PROVIDE 6' MIN DIAMETER TURF AND VEGETATION FREE RING AROUND ALL NEW TREES IN TURF OR NATIVE VEGETATED AREAS
- ② LANDSCAPE BOULDERS, SEE ENLARGED PLAN LP102 FOR MORE INFORMATION.
- ③ FOR TREES PLANTED IN THIS AREA SEE SLOPE PLANTING, 8/L-501

**ENLARGED SHRUB PLAN**  
SCALE: 1" = 10'



DESCRIPTION:

NO.: DATE:

SHEET DESCRIPTION:

**ENLARGED SHRUB PLAN**

MAPLE VIEW PARK  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

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Surveyors  
Planners

95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024

SCALE: 1" = 10'

DESIGN BY: J. MAUGHAN

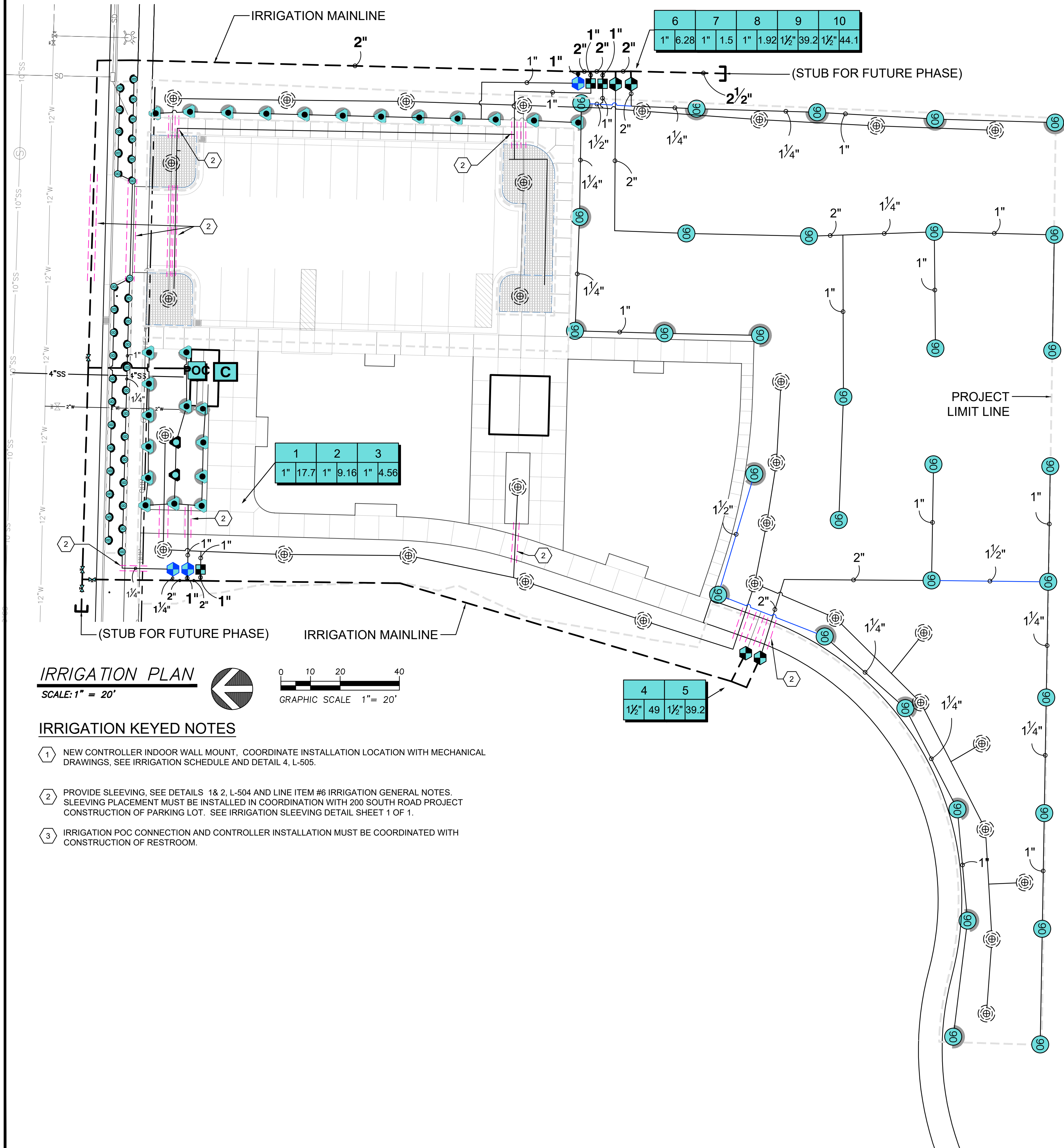
CHECKED BY: J. MAUGHAN

APPROVED BY: J. MAUGHAN

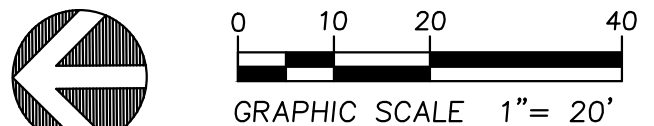
PROJECT NUMBER: 620-2005

SHEET: LP102

BID SET



**IRRIGATION PLAN**  
SCALE: 1" = 20'

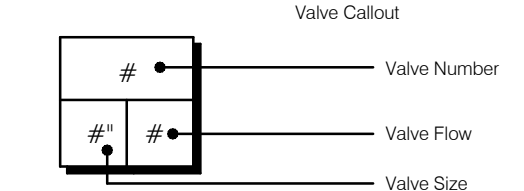


**IRRIGATION KEYED NOTES**

- NEW CONTROLLER INDOOR WALL MOUNT. COORDINATE INSTALLATION LOCATION WITH MECHANICAL DRAWINGS, SEE IRRIGATION SCHEDULE AND DETAIL 4, L-505.
- PROVIDE SLEEVING, SEE DETAILS 18 & 2, L-504 AND LINE ITEM #6 IRRIGATION GENERAL NOTES. SLEEVING PLACEMENT MUST BE INSTALLED IN COORDINATION WITH 200 SOUTH ROAD PROJECT CONSTRUCTION OF PARKING LOT. SEE IRRIGATION SLEEVING DETAIL SHEET 1 OF 1.
- IRRIGATION POC CONNECTION AND CONTROLLER INSTALLATION MUST BE COORDINATED WITH CONSTRUCTION OF RESTROOM.

**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL	QTY	PSI			DETAIL
	RAIN BIRD 1806-PRS 8 SERIES MPR	37	30			7/L-504
	RAIN BIRD R-VAN14 1806-SAM-P45-NP	27	35			7/L-504
SYMBOL	MANUFACTURER/MODEL	QTY	PSI	GPM	RADIUS	DETAIL
	RAIN BIRD 6504-PC, FC-SS 06	32	40	4.9	41'	7/L-504
SYMBOL	MANUFACTURER/MODEL	QTY				DETAIL
	RAIN BIRD XCZ-100-PRB-R	3				8/L-505
	RAIN BIRD XFDE-06-12 DRIP RING	31				5/L-505
	RAINBIRD XBT10 - PRESSURE COMPENSATING EMITTER - 1.0 GPH	85				8/L-505
	AREA TO RECEIVE DRIP EMITTERS	1,300 S.F.				7/L-502
	Emitter Notes: 1.0 GPH emitters (2 assigned to each 5 gal plant - place directly opposite either side of plant)					8/L-505
	1.0 GPH emitters (3 assigned to each 5 gal plant - place in equal sided triangle around plant)					8/L-505
SYMBOL	MANUFACTURER/MODEL	QTY				DETAIL
	RAIN BIRD EFB-CP-PRS-D	7				3/L-502
	HYDRO POINT WTPRO3-C-12-CH1	1				4/L-503
	SEE 1/L-505 FOR POC BACKFLOW ASSEMBLY DETAILS	1				1/L-505
	ISOLATION VALVE	4				9/L-505
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	3,253 L.F.				
	IRRIGATION MAINLINE: PVC SCHEDULE 40	836.3 L.F.				
	PIPE SLEEVE: PVC PIPE SCH 40	210.9 L.F.				1&2/L-502



**IRRIGATION GENERAL NOTES**

- THIS PLAN IS DIAGRAMMATIC. SOME SYSTEM COMPONENTS ARE SHOWN IN PAVED AREAS AND BUILDINGS FOR CLARITY AND LEGIBILITY. ALL IRRIGATION EQUIPMENT AND COMPONENTS ARE TO BE INSTALLED IN LANDSCAPE AREAS.
- CONTRACTOR TO BEST FIT IRRIGATION HEADS AS SHOWN IN DESIGN DRAWINGS TO ACTUAL SITE CONDITIONS. SOME AREAS MAY VARY DUE TO ACTUAL ON-SITE CONDITIONS. CONTRACTOR TO COORDINATE ALL NECESSARY SLEEVING ACCORDINGLY. CONTRACTOR TO ENSURE HEAD-TO-HEAD COVERAGE AND SHALL ADD/REMOVE OR ADJUST HEAD AS NECESSARY FOR FIELD CONDITIONS.
- DUE TO ONSITE VARIATIONS SOME AREAS TO RECEIVE SPRAY HEADS MAY RECEIVE ADJUSTABLE ARC NOZZLE TO REPLACE FIXED ARC NOZZLES. CONTRACTOR TO FIELD VERIFY CONDITIONS AND REPLACE AS NECESSARY. ANY PROPOSED REPLACEMENT OF 5 OR MORE NOZZLES PER ZONE TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- THIS SYSTEM IS BASED UPON AN AVAILABLE WORKING PRESSURE OF 40 PSI MINIMUM AT THE WORST CASE HEAD AND 50-65 PSI MINIMUM PRIOR TO EACH VALVE. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION. CONTACT LANDSCAPE ARCHITECT IMMEDIATELY IF THESE PRESSURES ARE NOT ATTAINABLE.
- ALL VALVE BOXES TO BE PLACED IN SHRUB BEDS AND EASILY ACCESSED AND MAINTAINED (WITHIN 12" FROM BACK OF CURB, SIDEWALK OR MOWSTRIP). REFER TO IRRIGATION DETAILS 3-5, SHEET L-501.
- CONTRACTOR TO LOCATE SLEEVES WHERE MAINLINE AND LATERAL IRRIGATION LINES CROSS UNDER ANY PAVED SURFACE AS SHOWN ON PLAN. SLEEVES SHALL BE TWO SIZES LARGER THAN PIPES TO BE SLEEVED. MULTIPLE SLEEVES MAY BE PLACED IN A SINGLE TRENCH. SLEEVES TO EXTEND 6" BEYOND PAVED SURFACE ON EACH SIDE. WIRES ARE TO BE SLEEVED UNDER PAVED SURFACES. SEE 1 & 2/L-501.
- IT IS RECOMMENDED THAT ALL IRRIGATION SYSTEM INSTALLATION WORK BE COMPLETED UNDER DIRECTION OF A FOREMAN OR SUPERVISOR WITH FIVE YEARS MINIMUM EXPERIENCE IN IRRIGATION SYSTEM INSTALLATION. ADDITIONALLY, CONTRACTOR SHALL BE A FACTORY APPROVED INSTALLER OF WEATHERTRAK SYSTEMS OR OTHERWISE QUALIFIED AS DEFINED IN THE SPECIFICATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PRODUCTS AND MATERIALS INSTALLED ARE IN ACCORDANCE WITH CURRENT LAWS AND LOCAL REGULATIONS.
- ALL IRRIGATION SYSTEM PIPING TO BE GRADED SO THE SYSTEM CAN BE COMPLETELY DRAINED OR BLOWN OUT WITH COMPRESSED AIR, TO ENSURE THE PROPER WINTERIZATION OF THE IRRIGATION SYSTEM.
- CONTRACTOR SHALL USE NO PIPE SMALLER THAN 1" FOR ANY WATER DELIVERY PORTIONS OF THE IRRIGATION SYSTEM AND NO LATERAL DELIVERY LINES SMALLER THAN 1" SHALL BE USED ON ANY DRIP ZONE.
- PIPE SIZE RELATES TO THE ACCUMULATION OF HEADS AND THE FLOW NEEDS OF EACH HEAD. GENERALLY THE PIPE SIZE IS LARGEST NEAR THE VALVE AND GETS SMALLER AS IT MOVES TOWARD THE END-LINE SPRINKLER HEADS.
- CONTRACTOR IS REQUIRED TO ENSURE ALL NECESSARY COMPONENTS ARE READY FOR CONTROLLER INSTALLATION, SEE SPECIFICATION AND MANUFACTURER'S GUIDELINES FOR MORE INFORMATION.
- CONTRACTOR TO FURNISH AND INSTALL ALL SELENOID DECODERS (ADAPTERS) AS REQUIRED FOR VALVE OPERATION, SEE SPECIFICATIONS.
- IRRIGATION CONTROLLER SHALL BE GROUNDED WITH GROUNDING ROD INSTALLATION TO MEET MANUFACTURERS GUIDELINES.
- TWO-WIRE PATH MUST BE GROUNDED AT A MINIMUM OF EVERY 500' ALONG PATH. GROUNDING MAY OCCUR AT DECODERS OR INLINE. GROUNDING RODS MAY BE INSTALLED IN SEPARATE BOX WITH CADWELDED ON DECODER GROUND WIRE; GROUNDING RODS TO BE SET A MINIMUM OF 8' AWAY FROM TWO-WIRE PATH.
- CONTRACTOR TO FURNISH AND INSTALL HYDROMETER AS IDENTIFIED IN SPECIFICATIONS AND DETAILS. THERE IS A PRE-ASSEMBLED HYDROMETER CONFIGURED TO WORK WITH THE WEATHERTRAK CONTROLLER. SEE MANUFACTURERS RECOMMENDATIONS. THIS PRE-ASSEMBLED KIT IS RECOMMENDED. CONTRACTOR TO ENSURE ALL NECESSARY CONFIGURATION OF HYDROMETER TO WORK WITH WEATHERTRAK CONTROLLER.

DESCRIPTION:  
NO. DATE:

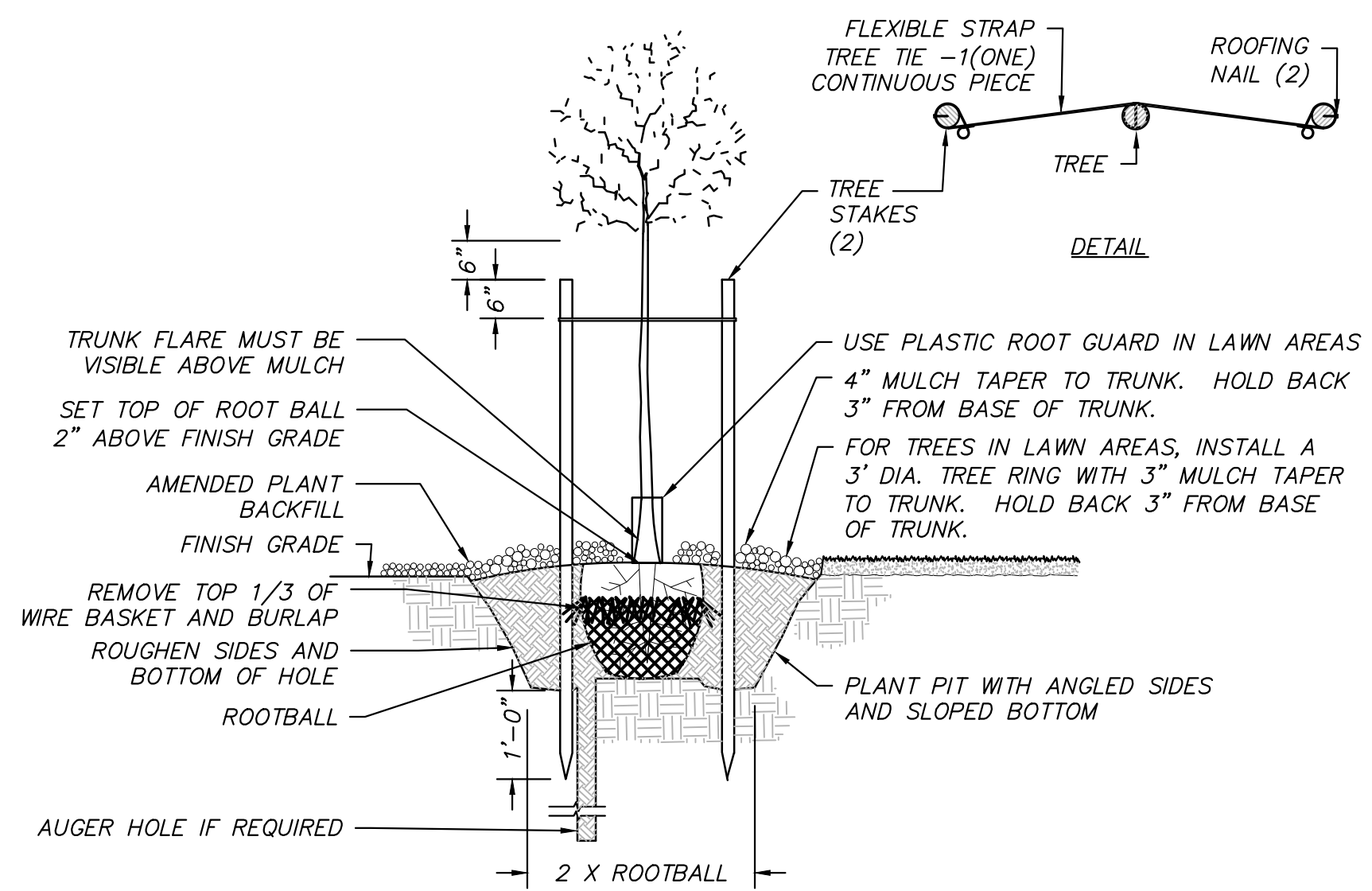
SHEET DESCRIPTION:  
**IRRIGATION PLAN**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

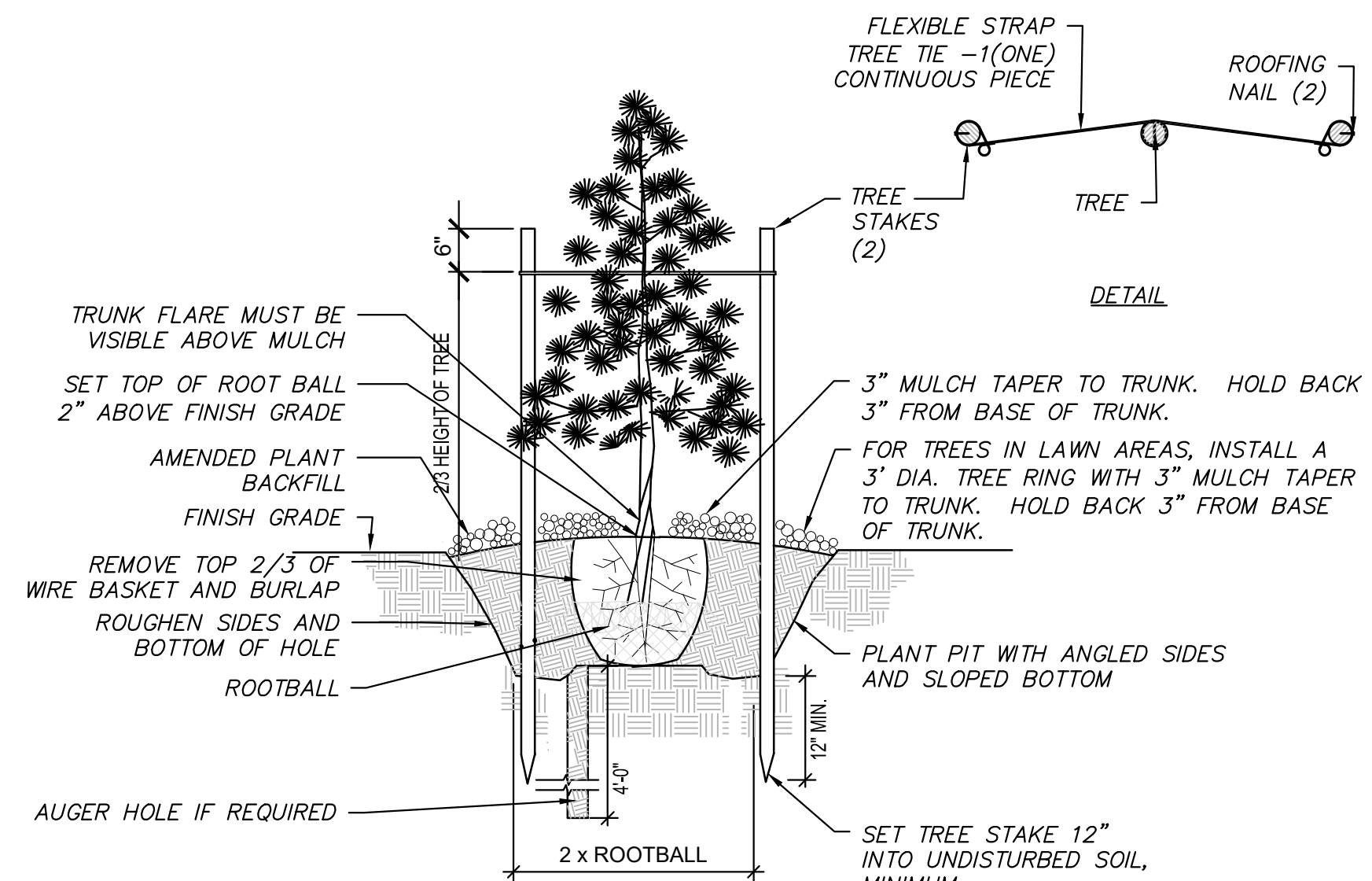
Cache • Landmark  
Engineers  
Surveyors  
Planners  
95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024  
SCALE: 1" = 20'  
DESIGN BY: J. MAUGHAN  
CHECKED BY: J. MAUGHAN  
APPROVED BY: J. MAUGHAN  
PROJECT NUMBER: 620-2005

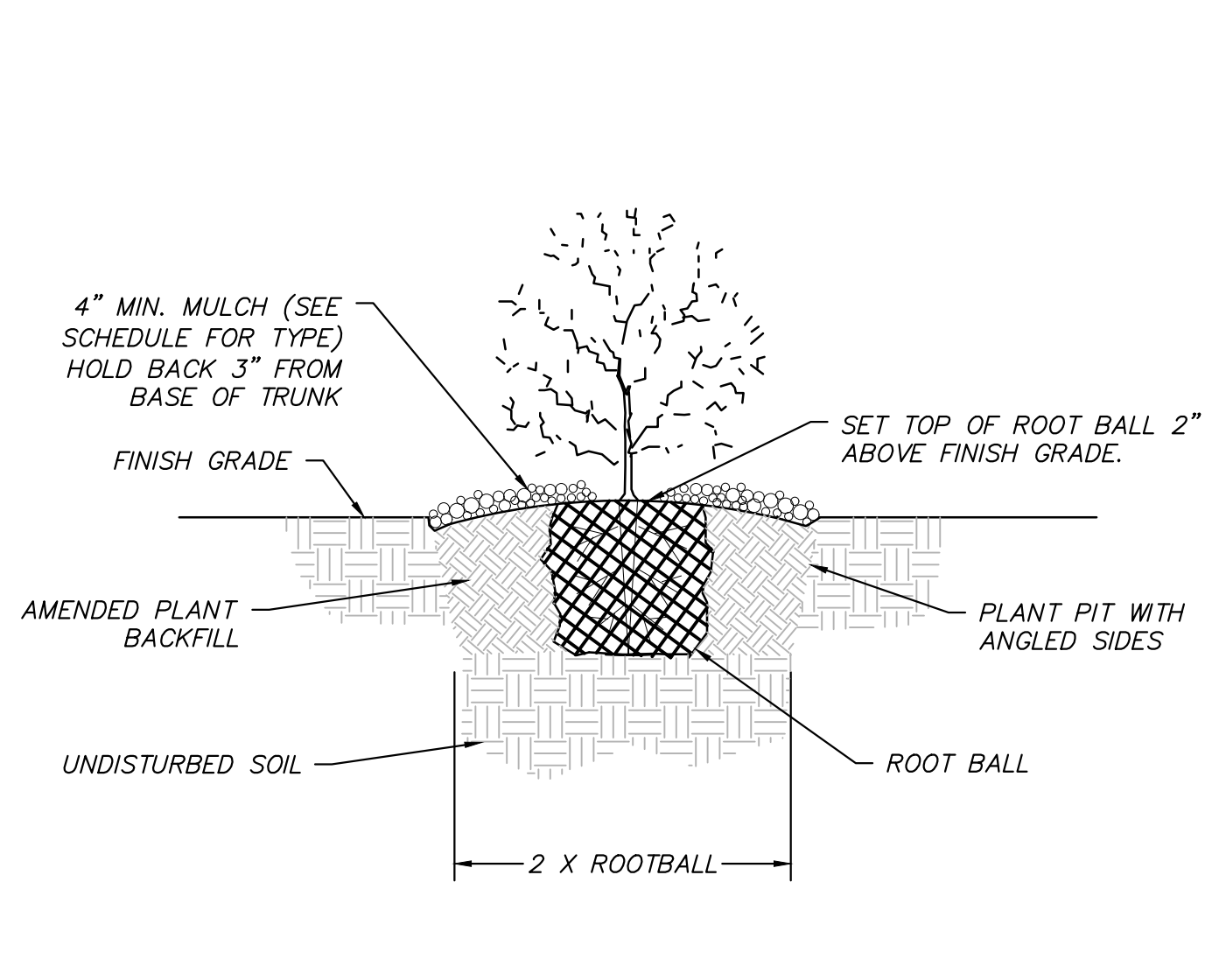
SHEET:  
**LI201**



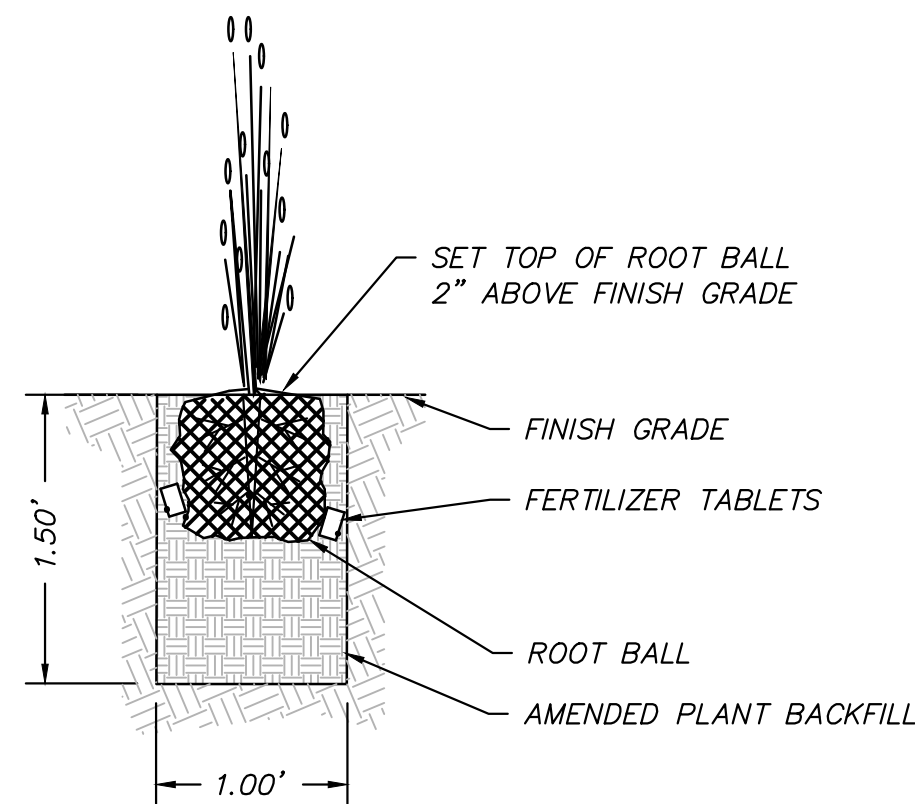
**1** TREE STAKING AND PLANTING DETAIL  
1" = 1'-0" 329343-02



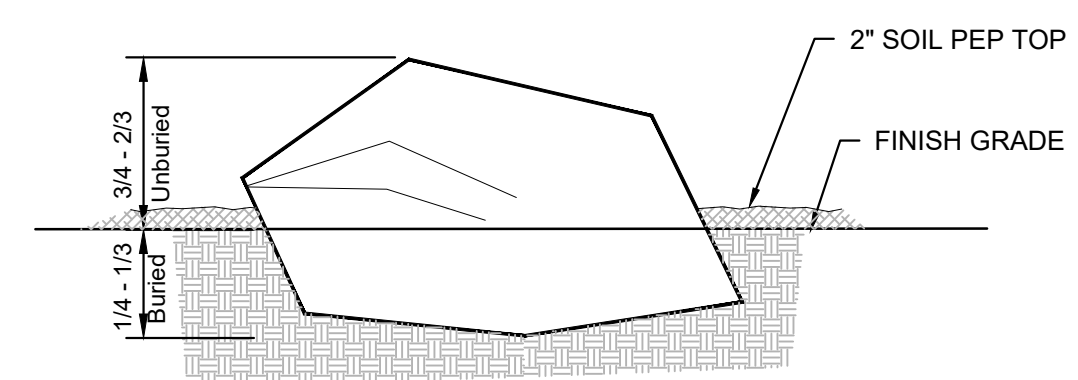
**2** EVERGREEN TREE PLANTING DETAIL  
1" = 1'-0" 329343-03



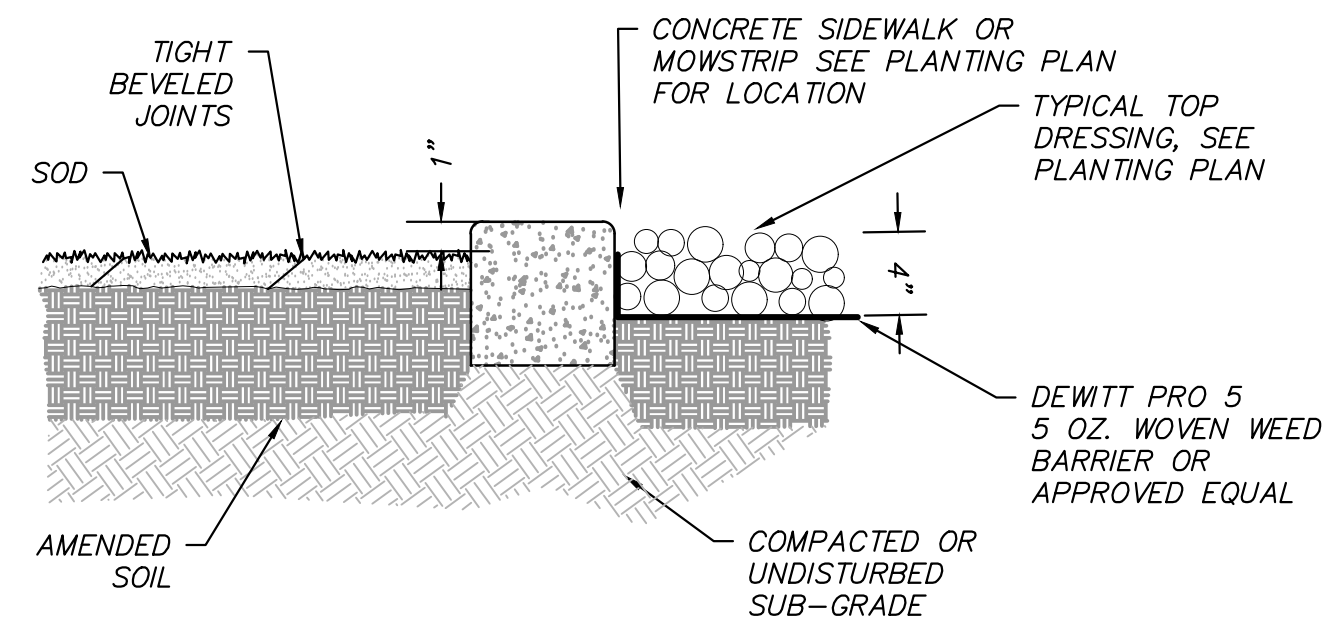
**3** SHRUB PLANTING DETAIL  
1" = 1'-0" 329333-01



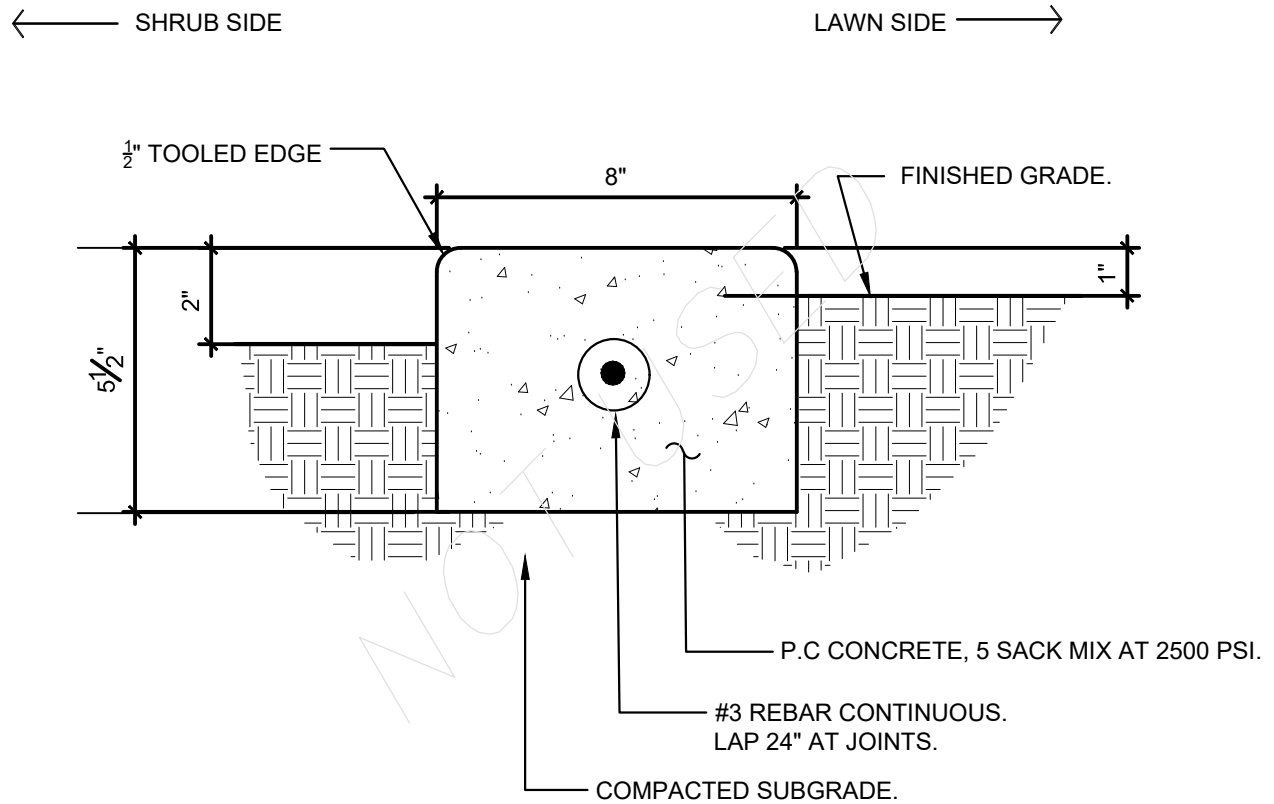
**4** PERENNIAL PLANTING DETAIL  
1" = 1'-0" 329323-02



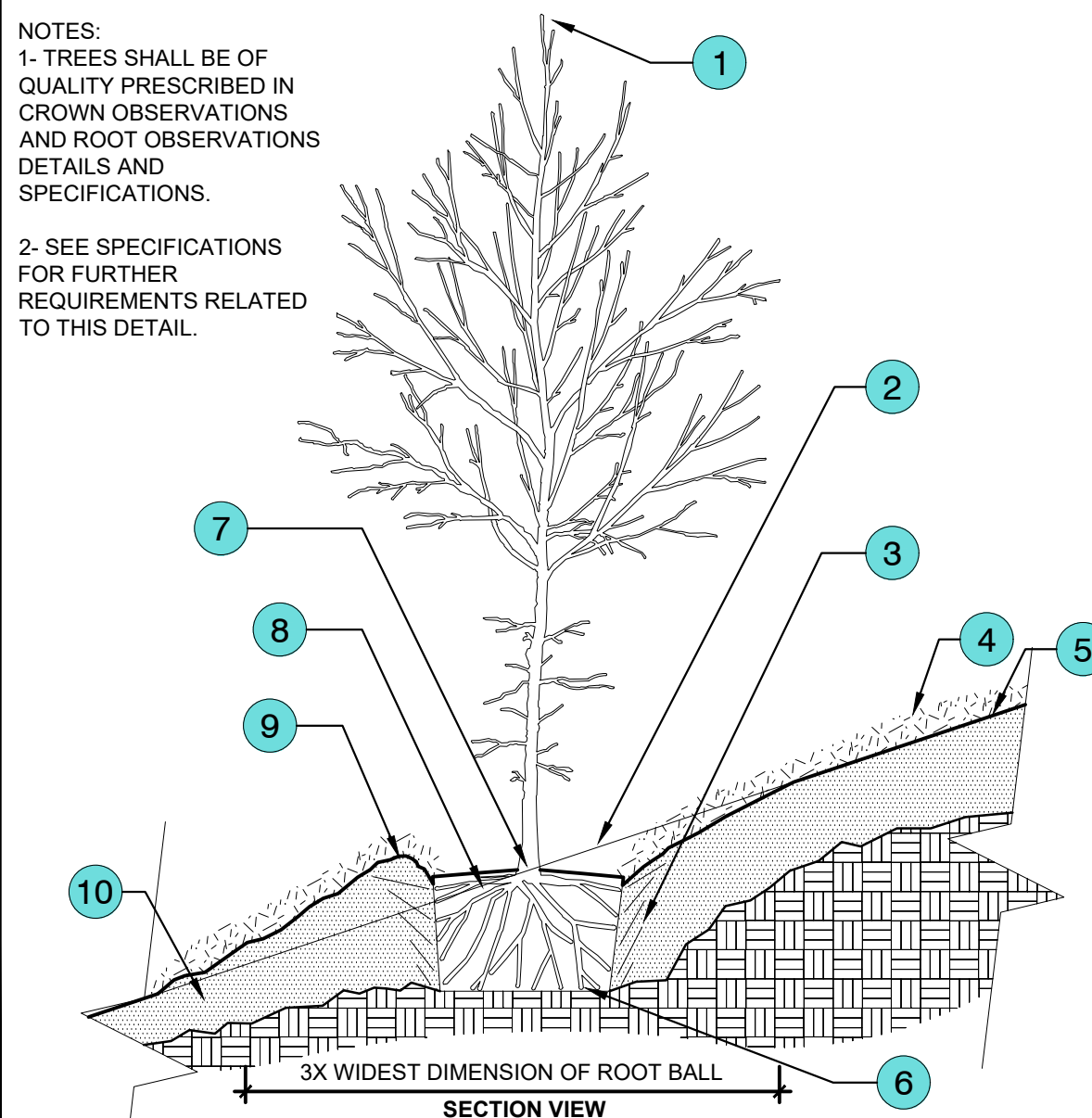
**5** LANDSCAPE BOULDER DETAIL  
1" = 1'-0" 323362-01



**6** MOWCURB, MULCH AND SOD DETAIL  
1" = 1'-0" 329413.19-07



**7** 8" CONCRETE MOW STRIP  
3" = 1'-0" FX-PL-FX-EDG-06



**8** TREE ON SLOPE - UNMODIFIED SOILSLOPE 5% (20:1) TO 50% (2:1)  
1/2" = 1'-0" 329343-02

- 1 CENTRAL LEADER. (SEE CROWN OBSERVATIONS DETAIL).
- 2 ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK BASE MEETS SUBSTRATE/SOIL.
- 3 PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
- 4 4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH).
- 5 ORIGINAL GRADE.
- 6 BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL.
- 7 TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE.
- 8 ROOT BALL MODIFIED AS REQUIRED.
- 9 ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT BALL SURFACE SHALL BE CENTERED ON THE DOWNHILL SIDE OF THE ROOT BALL FOR 240°. BERM SHALL BEGIN AT ROOT BALL PERIPHERY SOIL. DEPTH VARIES. (SEE SOIL PREPARATION PLAN).
- 10

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FX-PL-FX-TREE-08

DESCRIPTION:	
NO.:	
DATE:	

SHEET DESCRIPTION: **PLANTING DETAILS**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

**CL**  
Cache • Landmark  
Engineers  
Surveyors  
Planners  
95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024  
SCALE: NA  
DESIGN BY: J. MAUGHAN  
CHECKED BY: J. MAUGHAN  
APPROVED BY: J. MAUGHAN  
PROJECT NUMBER: 620-2005  
SHEET:

**L-501**

BID SET

**ACCEPTABLE**

ONE CENTRAL LEADER (NO CODOMINANT LEADERS)

ASPECT RATIO IS LESS THAN 0.66.

A	B	Aspect Ratio
1.50"	0.90"	0.33
2.50"	0.90"	0.36
2.0"	1.00"	0.50
2.50"	1.60"	0.64

ASPECT RATIO OF B:A LESS THAN 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

**REJECTABLE**

MULTIPLE LEADERS (SEVERAL CODOMINANT LEADERS)

ASPECT RATIO IS GREATER THAN 0.66.

A	B	Aspect Ratio
2.50"	1.80"	0.72
2.0"	2.0"	1.0
2.50"	2.0"	0.80
4.0"	3.0"	0.75

ASPECT RATIO OF B:A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

NOTES:  
1- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.  
2- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

**1** CROWN OBSERVATIONS - HIGH BRANCHED  
1/4" = 1'-0"

**ACCEPTABLE**

ONE CENTRAL LEADER (NO CODOMINANT LEADERS)

ASPECT RATIO IS LESS THAN 0.66.

A	B	Aspect Ratio
1.80"	0.90"	0.33
2.80"	0.90"	0.32
2.0"	1.00"	0.50
2.80"	1.80"	0.64

ASPECT RATIO OF B:A LESS THAN 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

**REJECTABLE**

MULTIPLE LEADERS (SEVERAL CODOMINANT LEADERS)

ASPECT RATIO IS GREATER THAN 0.66.

A	B	Aspect Ratio
2.80"	1.80"	0.72
2.0"	2.0"	1.0
2.80"	2.0"	0.80
4.0"	3.0"	0.75

ASPECT RATIO OF B:A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

NOTES:  
1- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.  
2- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

**2** CROWN OBSERVATIONS - LOW BRANCHED  
3/16" = 1'-0"

**ACCEPTABLE**

ONE CENTRAL LEADER (NO CODOMINANT LEADERS)

ASPECT RATIO IS LESS THAN 0.66.

A	B	Aspect Ratio
1.80"	0.90"	0.33
2.80"	0.90"	0.32
2.0"	1.00"	0.50
2.80"	1.80"	0.64

ASPECT RATIO OF B:A LESS THAN 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

**REJECTABLE**

MULTIPLE LEADERS (SEVERAL CODOMINANT LEADERS)

ASPECT RATIO IS GREATER THAN 0.66.

A	B	Aspect Ratio
2.80"	1.80"	0.72
2.0"	2.0"	1.0
2.80"	2.0"	0.80
4.0"	3.0"	0.75

ASPECT RATIO OF B:A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.

NOTES:  
1- ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.  
2- ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

**3** CROWN OBSERVATION DETAIL - MULTI  
3/16" = 1'-0"

**ACCEPTABLE**

ROOT COLLAR

TOP OF ROOT BALL

POINT WHERE TOP MOST ROOT EMERGES FROM TRUNK

THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE. THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS. STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.

ROOT BALL PERIPHERY

STRUCTURAL ROOTS

ABSORBING ROOTS

ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFLECTING DOWN OR AROUND.

NOTES:  
1- OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SOIL MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE OBSERVATIONS HAVE BEEN COMPLETED.  
2- SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.

**4** ROOT OBSERVATIONS DETAIL - BALLED AND BURLAPPED  
1 1/2" = 1'-0"

**REJECTABLE**

STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.

ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.

STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.

STRUCTURAL ROOTS PRIMARILY GROW TO ONE SIDE.

STRUCTURAL ROOTS MISSING FROM ONE SIDE, AND/OR GROW TANGENT TO TRUNK.

STRUCTURAL ROOT GROWING TANGENT (PARALLEL) TO TRUNK.

STRUCTURAL ROOT CIRCLING.

NOTES:  
1- OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SUBSTRATE MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER OBSERVATION HAS BEEN COMPLETED.  
2- SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).  
3- SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.

**5** ROOT OBSERVATIONS DETAIL - CONTAINER  
1 1/2" = 1'-0"

**ACCEPTABLE**

ROOT COLLAR

TOP OF ROOTBALL

POINT WHERE TOP-MOST ROOT EMERGES FROM TRUNK.

THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE. THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS. STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.

ROOT BALL PERIPHERY

STRUCTURAL ROOT

ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFLECTING DOWN OR AROUND.

NOTES:  
1- OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SUBSTRATE MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER OBSERVATION HAS BEEN COMPLETED.  
2- SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).  
3- SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.

**5** ROOT OBSERVATIONS DETAIL - CONTAINER  
1 1/2" = 1'-0"

**REJECTABLE**

STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.

ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.

STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.

STRUCTURAL ROOTS PRIMARILY GROW TO ONE SIDE.

STRUCTURAL ROOTS MISSING FROM ONE SIDE, AND/OR GROW TANGENT TO TRUNK.

ROOTS GROWING TANGENT TO TRUNK.

NOTES:  
1- OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE. ROOTS AND SUBSTRATE MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER OBSERVATION HAS BEEN COMPLETED.  
2- SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).  
3- SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.

DESCRIPTION:

NO. DATE:

**PLANT SELECTION  
OBSERVATION DETAILS**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

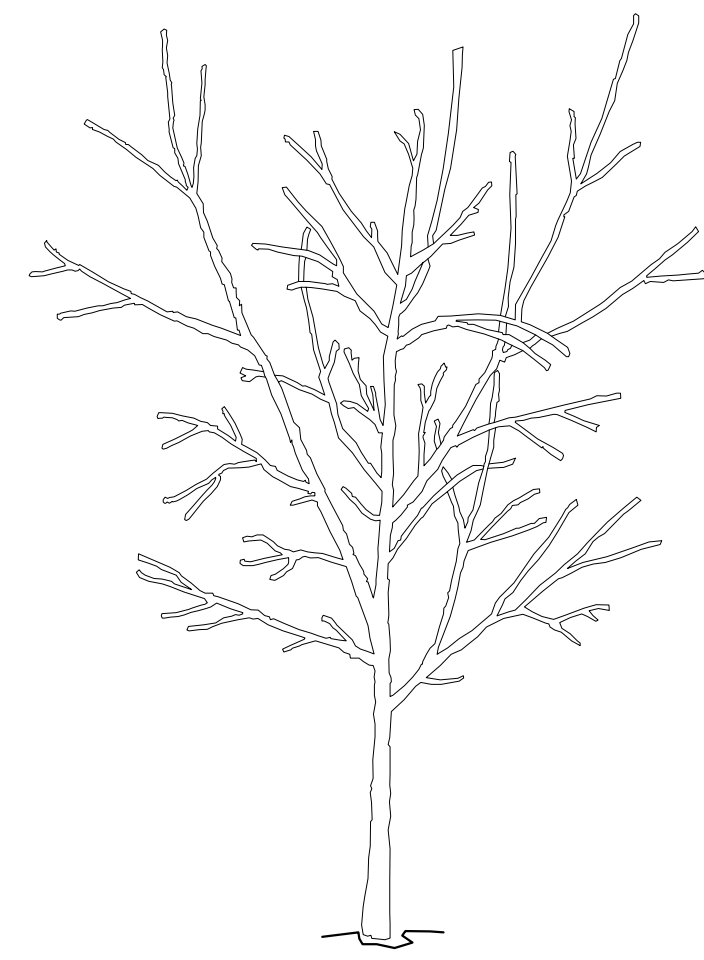
Cache • Landmark  
Engineers  
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95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

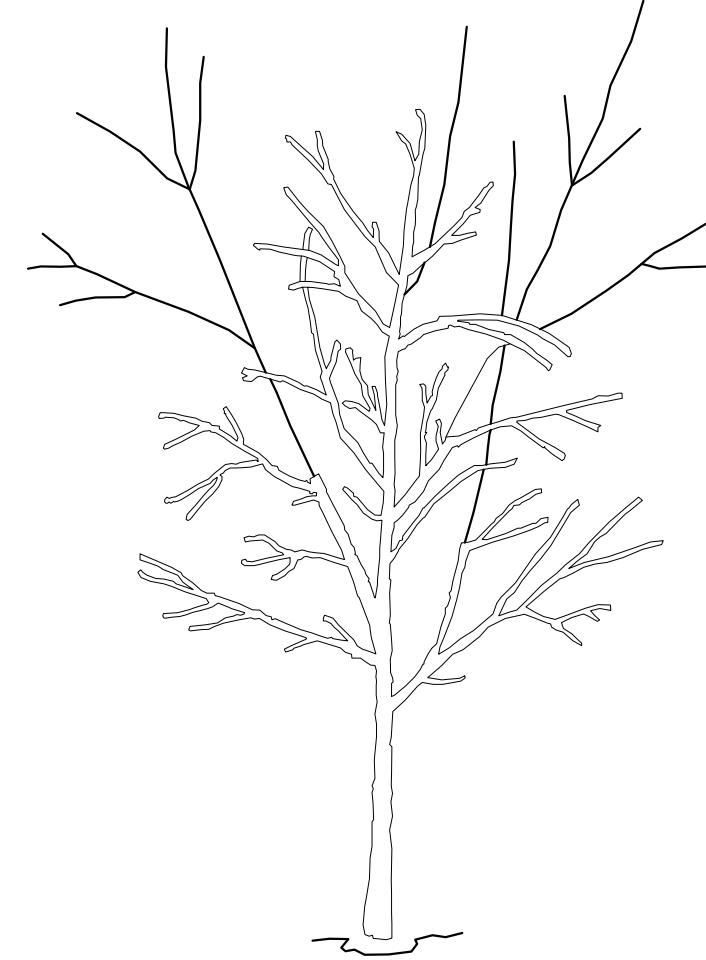
DATE: 03 DECEMBER 2024  
SCALE: NA  
DESIGN BY: J. MAUGHAN  
CHECKED BY: J. MAUGHAN  
APPROVED BY: J. MAUGHAN  
PROJECT NUMBER: 620-2005  
SHEET:

**L-502**

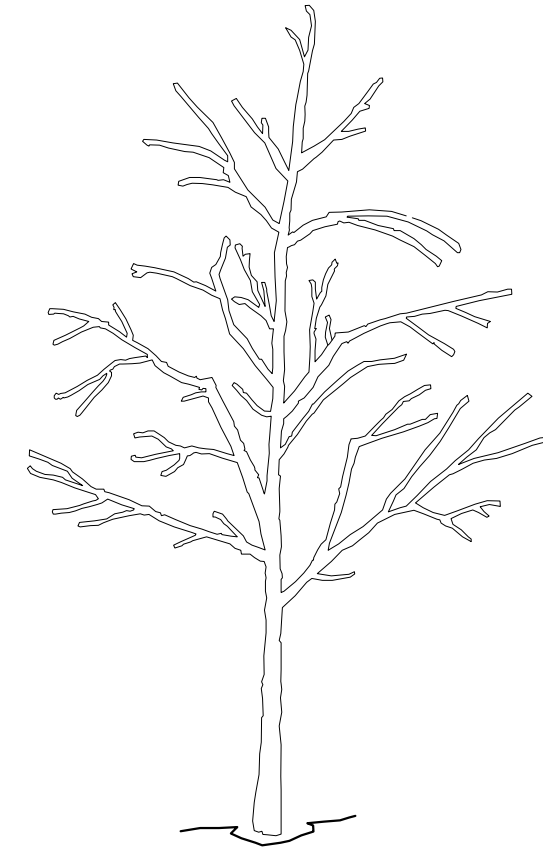
*BID SET*



BEFORE PLANTING, TREE HAS THREE CODOMINANT STEMS. THE TWO THAT COMPETE WITH THE ONE IN THE CENTER SHOULD BE PRUNED TO SUPPRESS THEIR GROWTH.



TWO COMPETING STEMS WERE REDUCED SUBSTANTIALLY, IN THIS CASE REMOVING ABOUT 70% OF THEIR FOLIAGE USING REDUCTION CUTS.

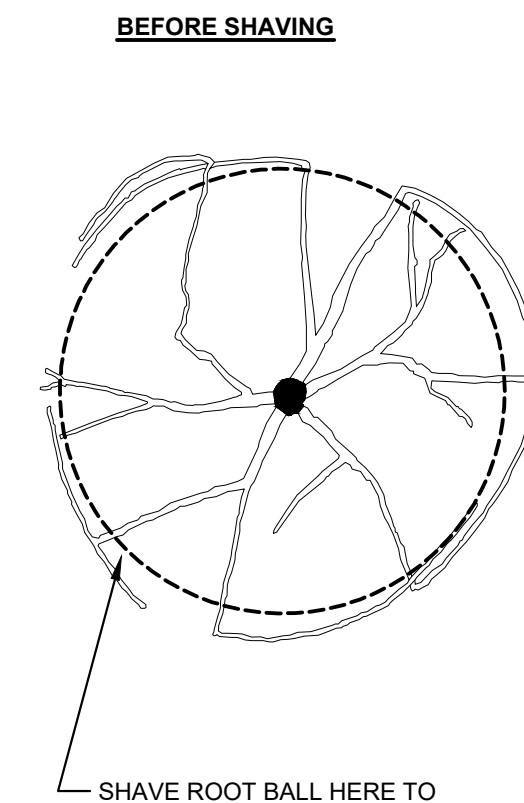


AFTER PRUNING, TREE HAS ONLY ONE DOMINANT STEM

- NOTES:  
 1- ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED TREATMENT.  
 2- TREE SHALL MEET CROWN OBSERVATION DETAIL FOLLOWING CORRECTION.

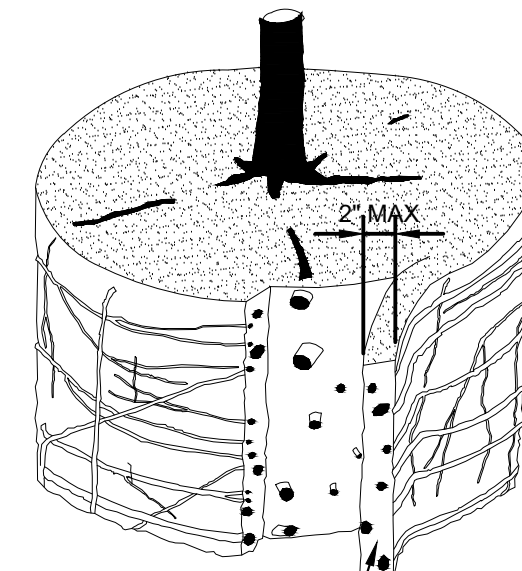
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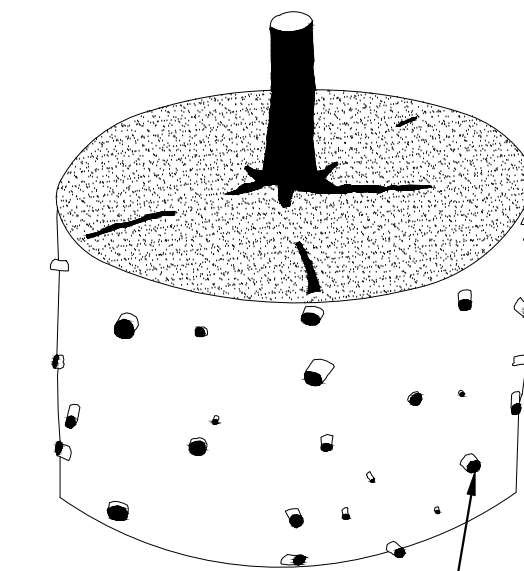
BEFORE SHAVING

SHAVE ROOT BALL HERE TO REMOVE ALL ROOTS GROWING ON THE PERIPHERY.



SHAVING PROCESS

SHAVE OUTER PERIPHERY OF THE ROOT BALL A MAXIMUM OF 2" THICK.



SHAVING COMPLETE

ROOT TIPS EXPOSED AT THE PERIPHERY OF THE ROOT BALL. ALL ROOTS GROWING AROUND THE PERIPHERY ARE REMOVED.

- NOTES:  
 1- SHAVING TO BE CONDUCTED USING A SHARP BLADE OR HAND SAW ELIMINATING NO MORE THAN NEEDED TO REMOVE ALL ROOTS ON THE PERIPHERY OF ROOT BALL.  
 2- SHAVING CAN BE PERFORMED JUST PRIOR TO PLANTING OR AFTER PLACING IN THE HOLE.

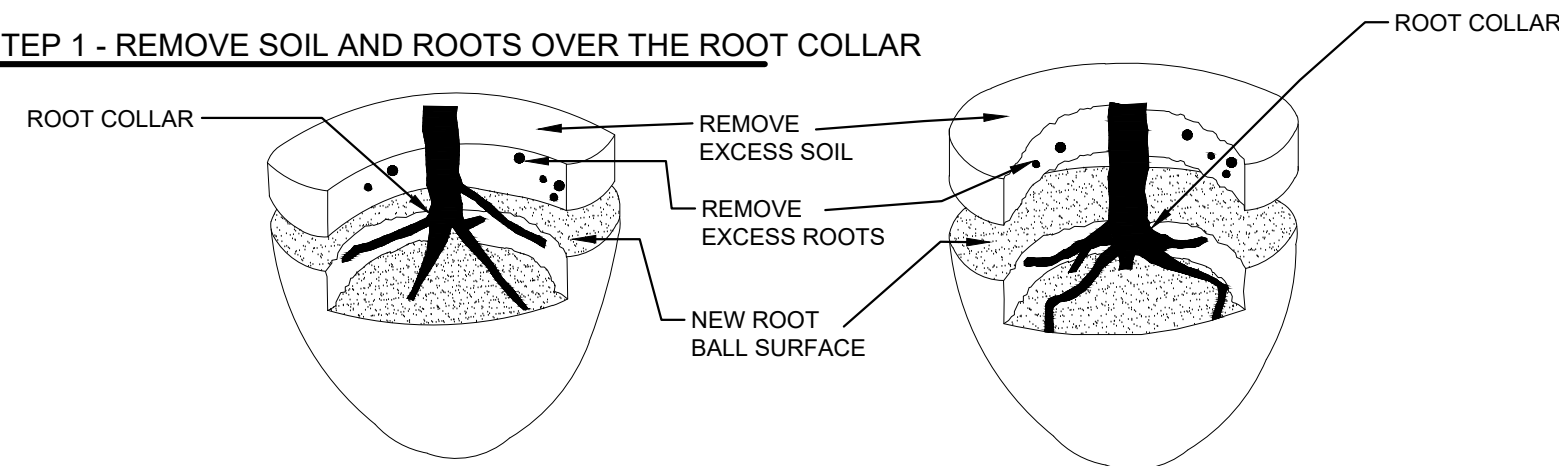
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FX-PL-FX-CORR-01

1 CROWN CORRECTION DETAIL

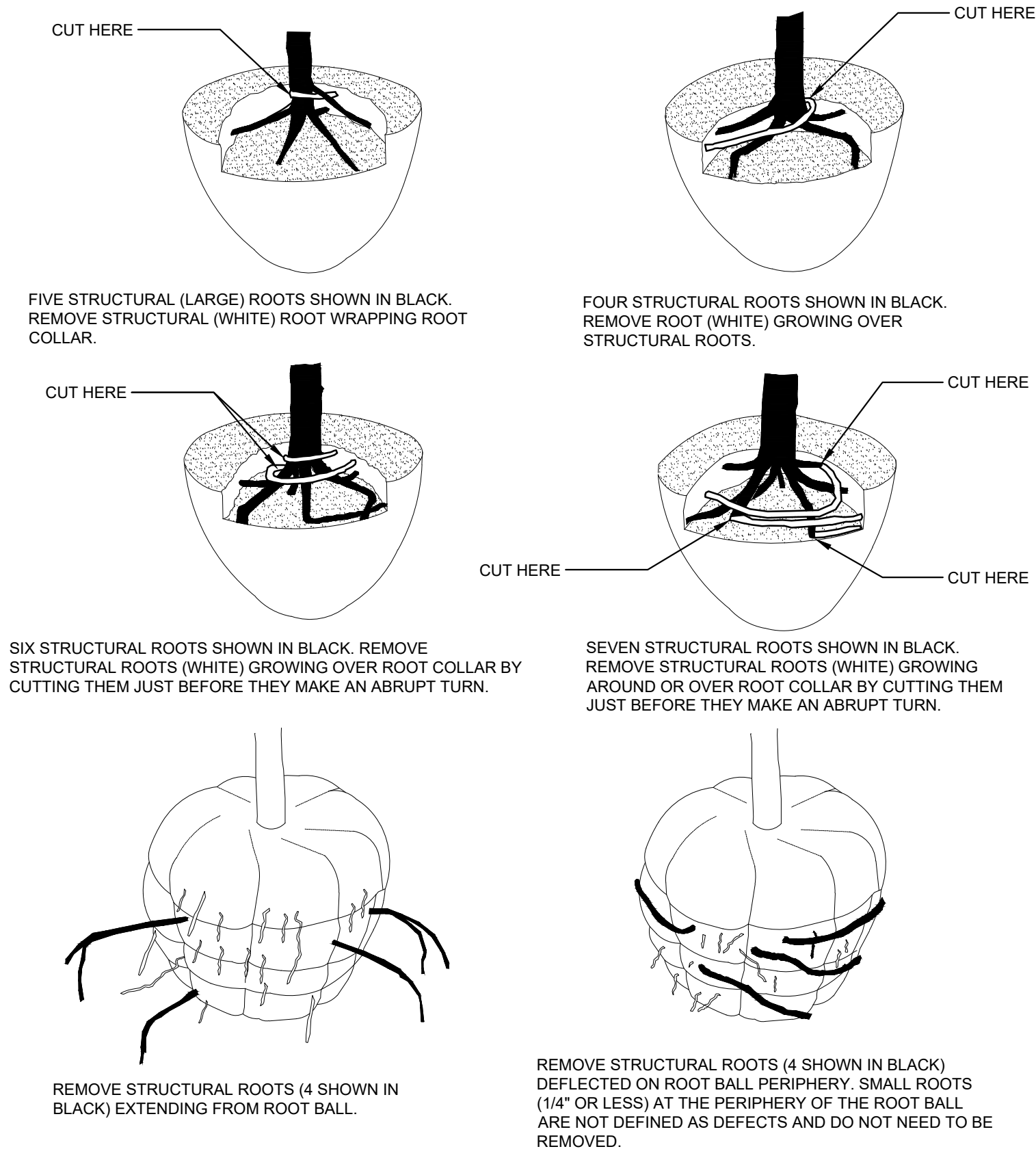
1/2" = 1'-0"

STEP 1 - REMOVE SOIL AND ROOTS OVER THE ROOT COLLAR



TREE PLANTED TOO DEEPLY IN ROOT BALL. REMOVE EXCESS SOIL AND ROOTS TO MEET ROOT INSPECTION DETAIL.

STEP 2 - REMOVE DEFECTS



FIVE STRUCTURAL (LARGE) ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL (WHITE) ROOT WRAPPING ROOT COLLAR.

FOUR STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE ROOT (WHITE) GROWING OVER STRUCTURAL ROOTS.

SIX STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOTS (WHITE) GROWING OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

SEVEN STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOTS (WHITE) GROWING AROUND OR OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

REMOVE STRUCTURAL ROOTS (4 SHOWN IN BLACK) EXTENDING FROM ROOT BALL.

REMOVE STRUCTURAL ROOTS (4 SHOWN IN BLACK) DEFLECTED ON ROOT BALL PERIPHERY. SMALL ROOTS (1/4" OR LESS) AT THE PERIPHERY OF THE ROOT BALL ARE NOT DEFINED AS DEFECTS AND DO NOT NEED TO BE REMOVED.

- NOTES:  
 1- ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED CORRECTION.  
 2- FIRST STEP 1, THEN STEP 2. ADJUST HOLE DEPTH TO ALLOW FOR THE REMOVAL OF EXCESS SOIL AND ROOTS OVER THE ROOT COLLAR.  
 3- ROOTS AND SOIL MAY BE REMOVED DURING THE CORRECTION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE CORRECTION HAS BEEN COMPLETED.  
 4- TREES SHALL PASS ROOT OBSERVATIONS DETAIL FOLLOWING CORRECTION.

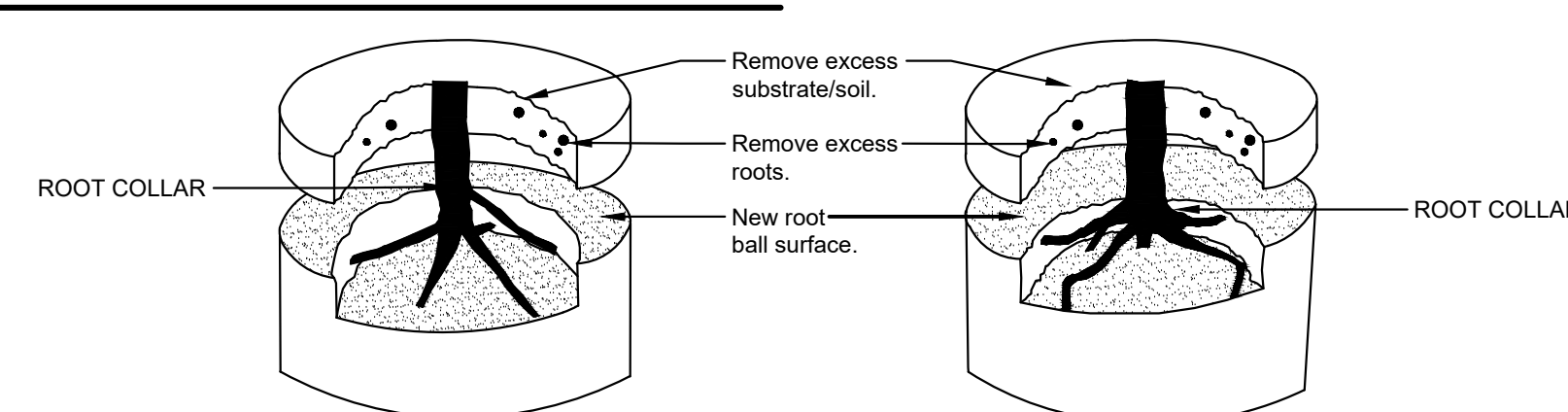
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FX-PL-FX-CORR-03

3 ROOT CORRECTION DETAIL - BALLED AND BURLAPPED

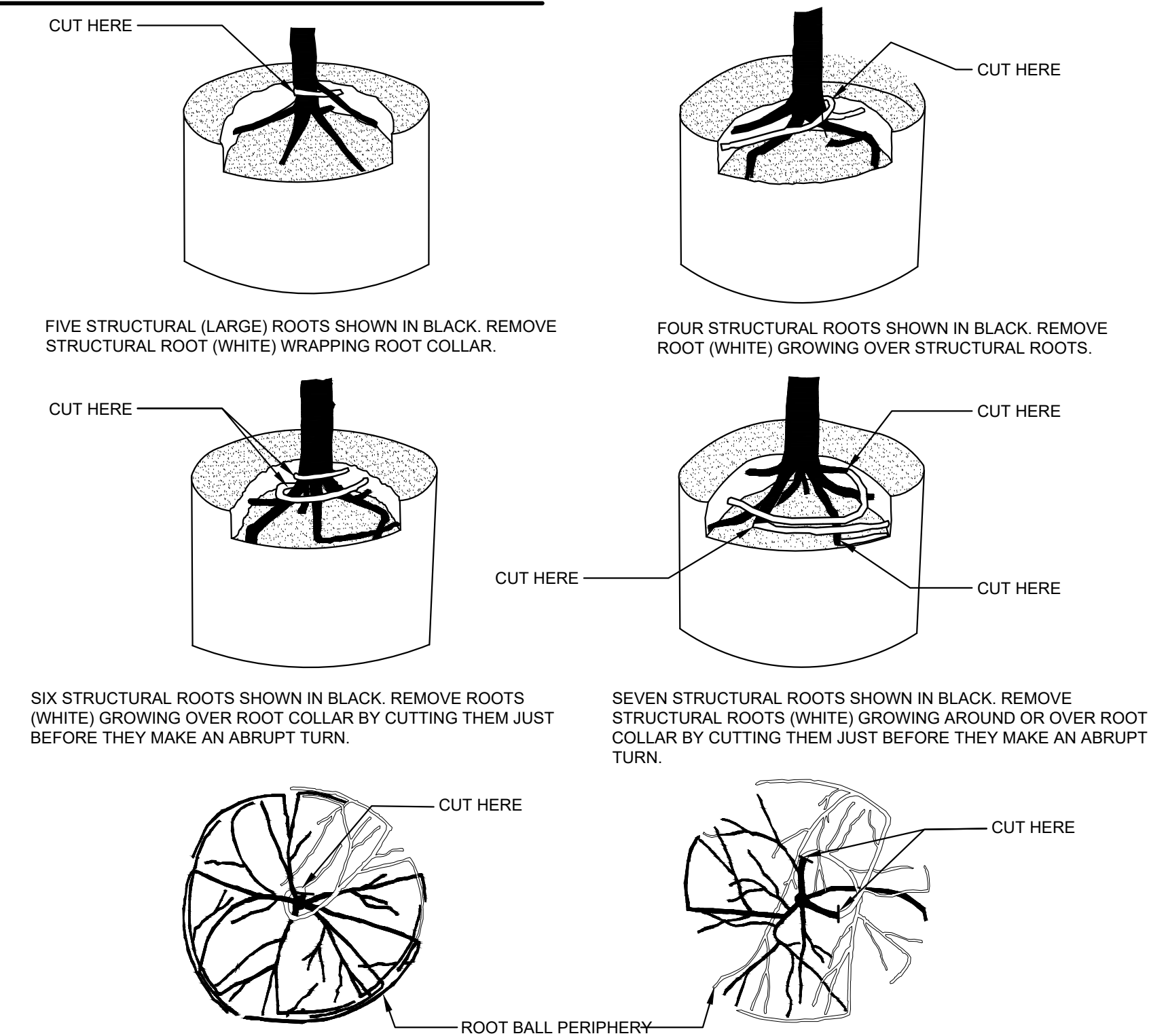
1 1/2" = 1'-0"

STEP 1 - REMOVE SUBSTRATE OVER ROOT COLLAR.



TREE PLANTED TOO DEEPLY IN ROOT BALL. REMOVE EXCESS SUBSTRATE AND ROOTS TO MEET ROOT INSPECTION DETAIL.

STEP 2 - REMOVE DEFECTS



FIVE STRUCTURAL (LARGE) ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOT (WHITE) WRAPPING ROOT COLLAR.

FOUR STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE ROOT (WHITE) GROWING OVER STRUCTURAL ROOTS.

SIX STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE ROOTS (WHITE) GROWING OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

SEVEN STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOTS (WHITE) GROWING AROUND OR OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

CUT STRUCTURAL ROOT JUST BEFORE IT MAKES ABRUPT TURN. PRUNING CUT SHOULD BE MADE TANGENT (PARALLEL) TO THE TRUNK.

CUT STRUCTURAL ROOTS JUST BEFORE THEY MAKE ABRUPT TURN BY CUTTING TANGENT (PARALLEL) TO THE TRUNK (TWO CUTS SHOWN).

- NOTES:  
 1- ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED CORRECTION.  
 2- FIRST STEP 1, THEN STEP 2. ROOTS AND SOIL MAY BE REMOVED DURING THE CORRECTION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER CORRECTION HAS BEEN COMPLETED.  
 3- TREES SHALL MEET ROOT OBSERVATIONS DETAIL FOLLOWING CORRECTION.  
 4- SMALL ROOTS (1/4" OR LESS) ON THE PERIPHERY OF THE ROOT BALL ARE COMMON WITH CONTAINER PLANT PRODUCTION. THESE SMALL ROOTS ARE NOT DEFINED AS "DEFECTS" AND CAN BE ADDRESSED AT THE TIME OF INSTALLATION (SEE ROOT BALL SHAVING CONTAINER DETAIL).

4 ROOT CORRECTION DETAIL - CONTAINER

1 1/2" = 1'-0"

FX-PL-FX-CORR-02

DESCRIPTION:

NO. DATE:



PLANT CORRECTION DETAILS

MAPLE VIEW PARK  
 200 SOUTH 1400 WEST  
 LOGAN, UTAH, 84321



Cache • Landmark  
 Engineers  
 Surveyors  
 Planners  
 95 Golf Course Rd.  
 Suite 101  
 Logan, UT 84321  
 435.713.0099

DATE: 03 DECEMBER 2024

SCALE: NA

DESIGN BY: J. MAUGHAN

CHECKED BY: J. MAUGHAN

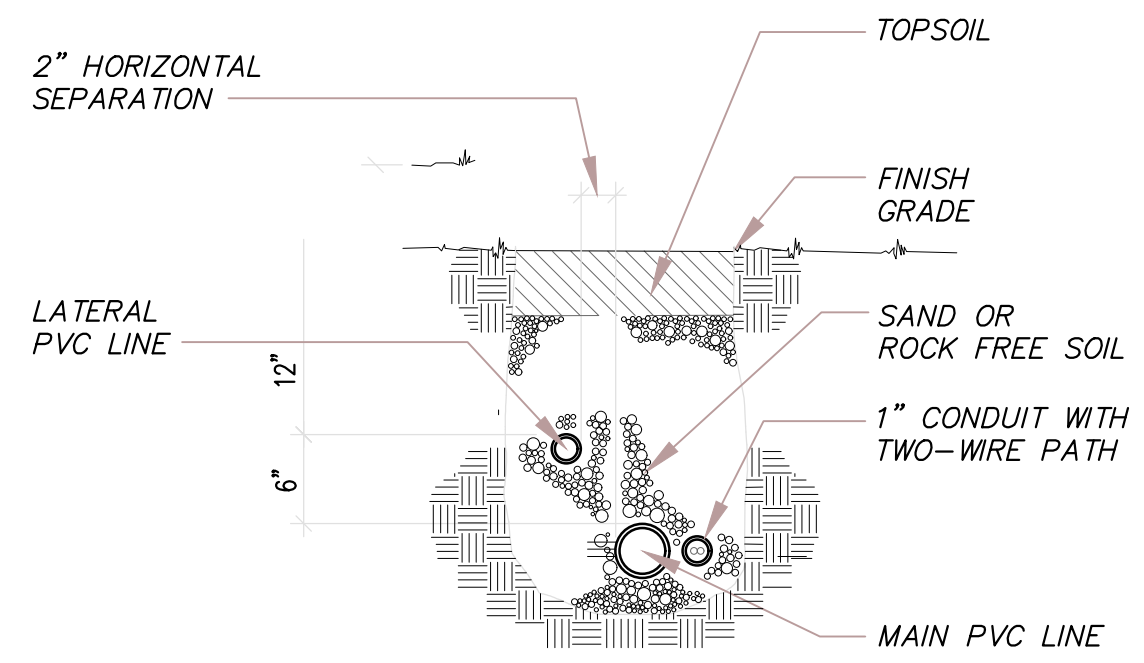
APPROVED BY: J. MAUGHAN

PROJECT NUMBER: 620-2005

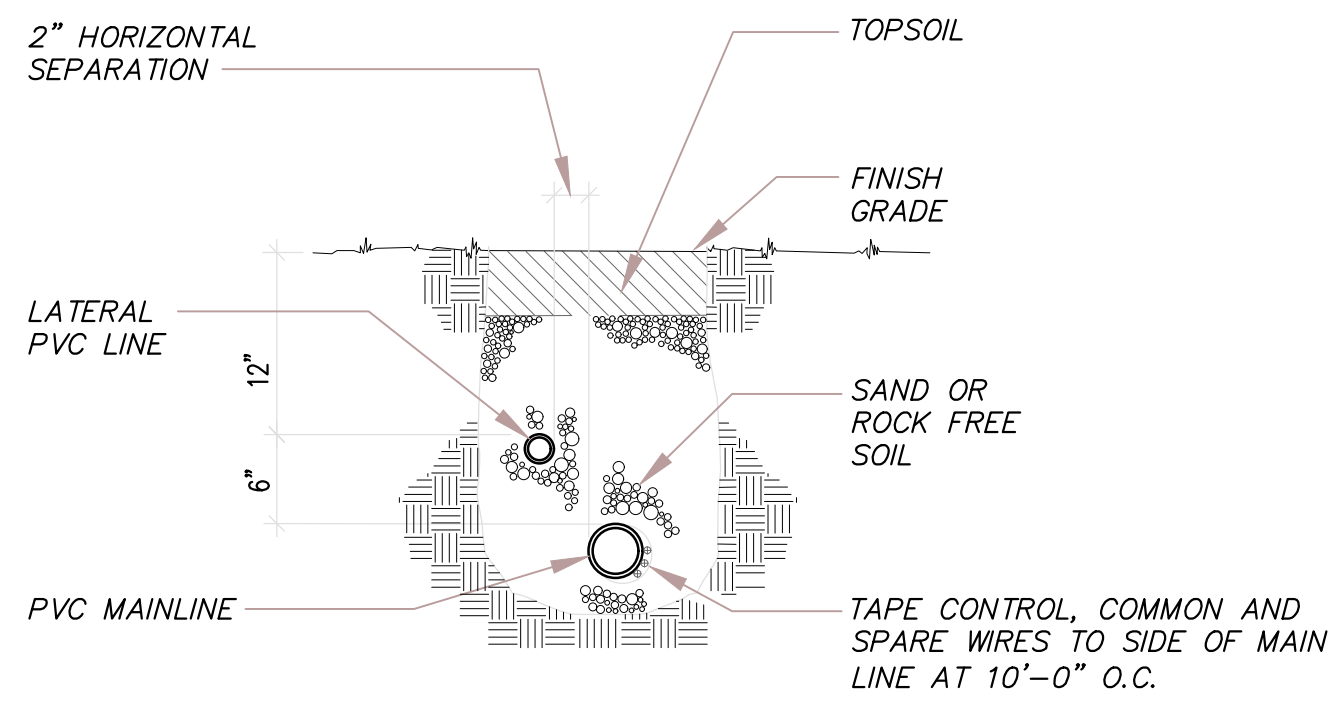
SHEET:

L-503

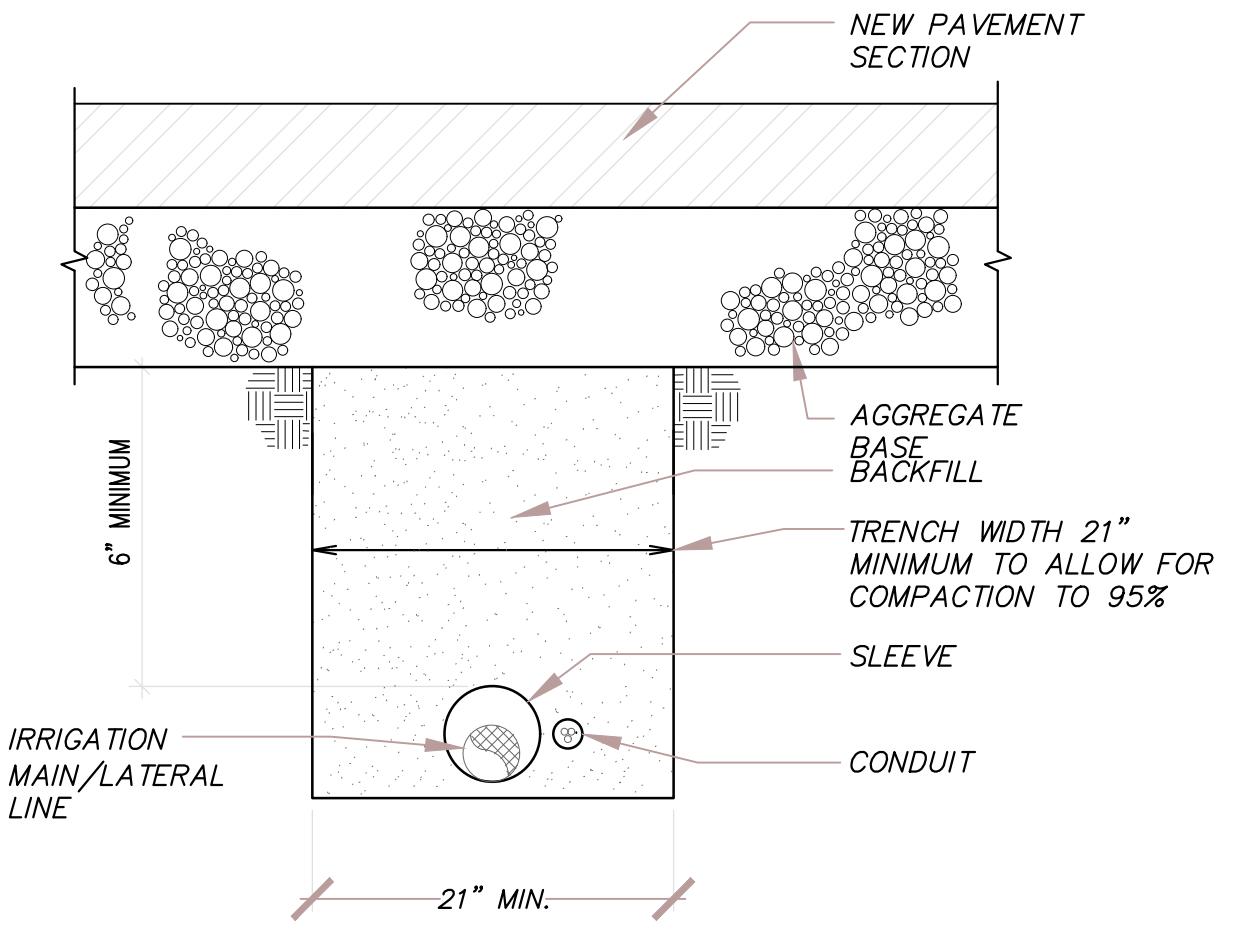
BID SET



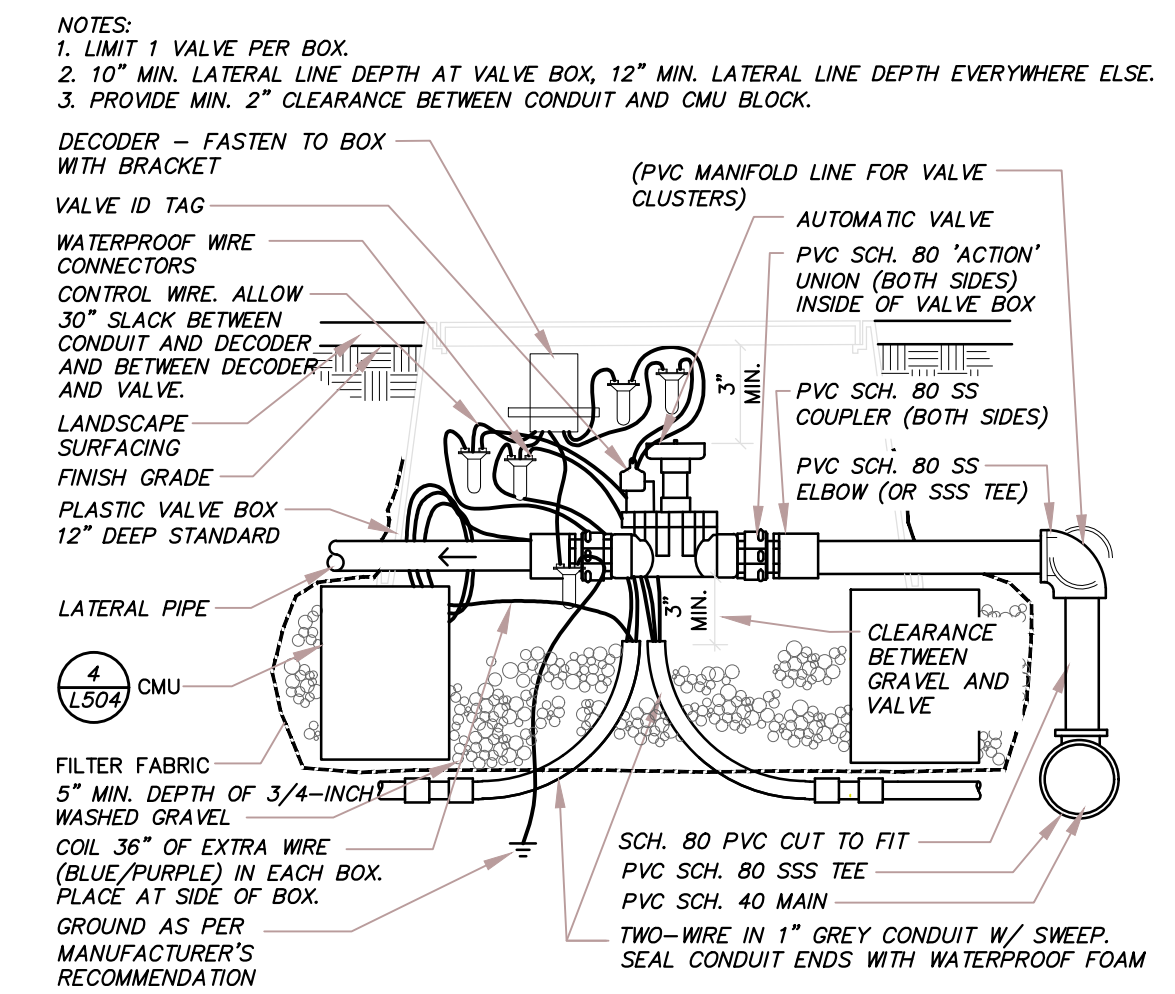
TWO-WIRE SYSTEM



CONVENTIONAL WIRE SYSTEM



MISC. PIPE TRENCH NEW PAVEMENT



AUTOMATIC VALVE WITH TWO-WIRE SYSTEM

1 TRENCH DETAIL

1" = 1'-0"

328409.76-16

2

1" = 1'-0"

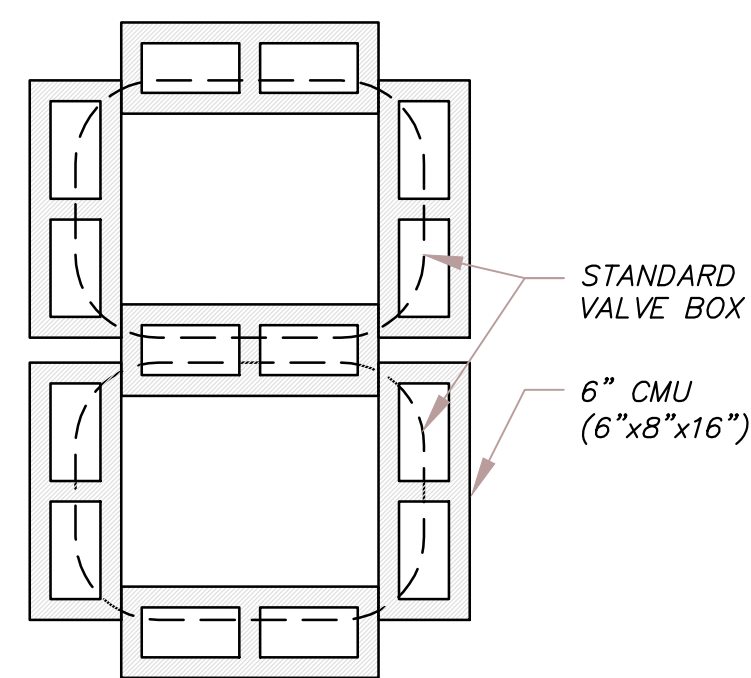
328409.76-17

3

3/4" = 1'-0"

328406-01

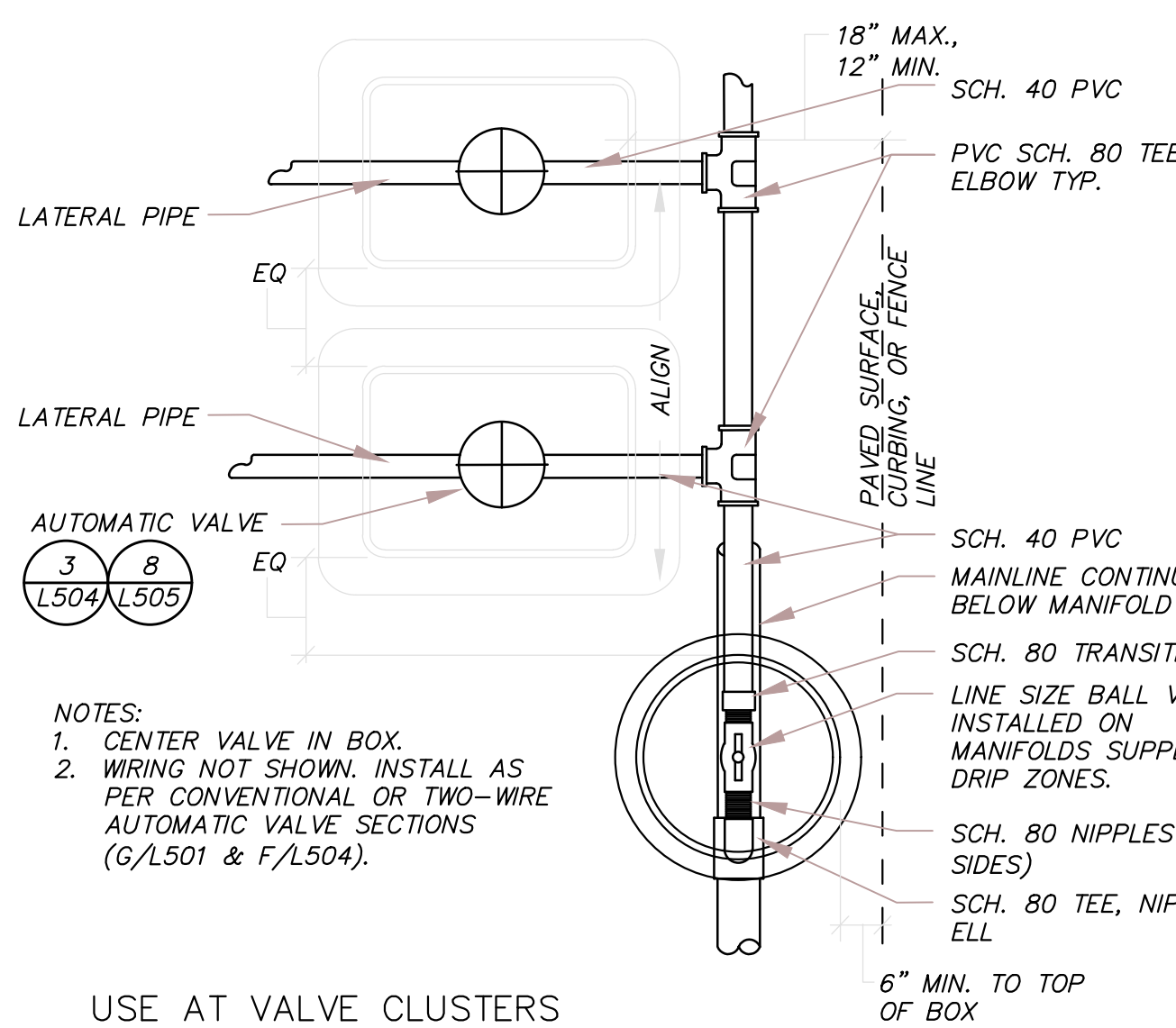
- NOTES:  
 1. VALVE BOX TO REST ON (4) CMU BLOCKS (ONE FOR EACH SIDE).  
 2. CLUSTERED VALVE BOXES MAY SHARE A CMU BLOCK.



4 CMU IN VALVE BOX PLACEMENT

1" = 1'-0"

328406-02



- NOTES:  
 1. CENTER VALVE IN BOX.  
 2. WIRING NOT SHOWN. INSTALL AS PER CONVENTIONAL OR TWO-WIRE AUTOMATIC VALVE SECTIONS (G/L501 & F/L504).

USE AT VALVE CLUSTERS

5 MANIFOLD AND VALVE ASSEMBLY

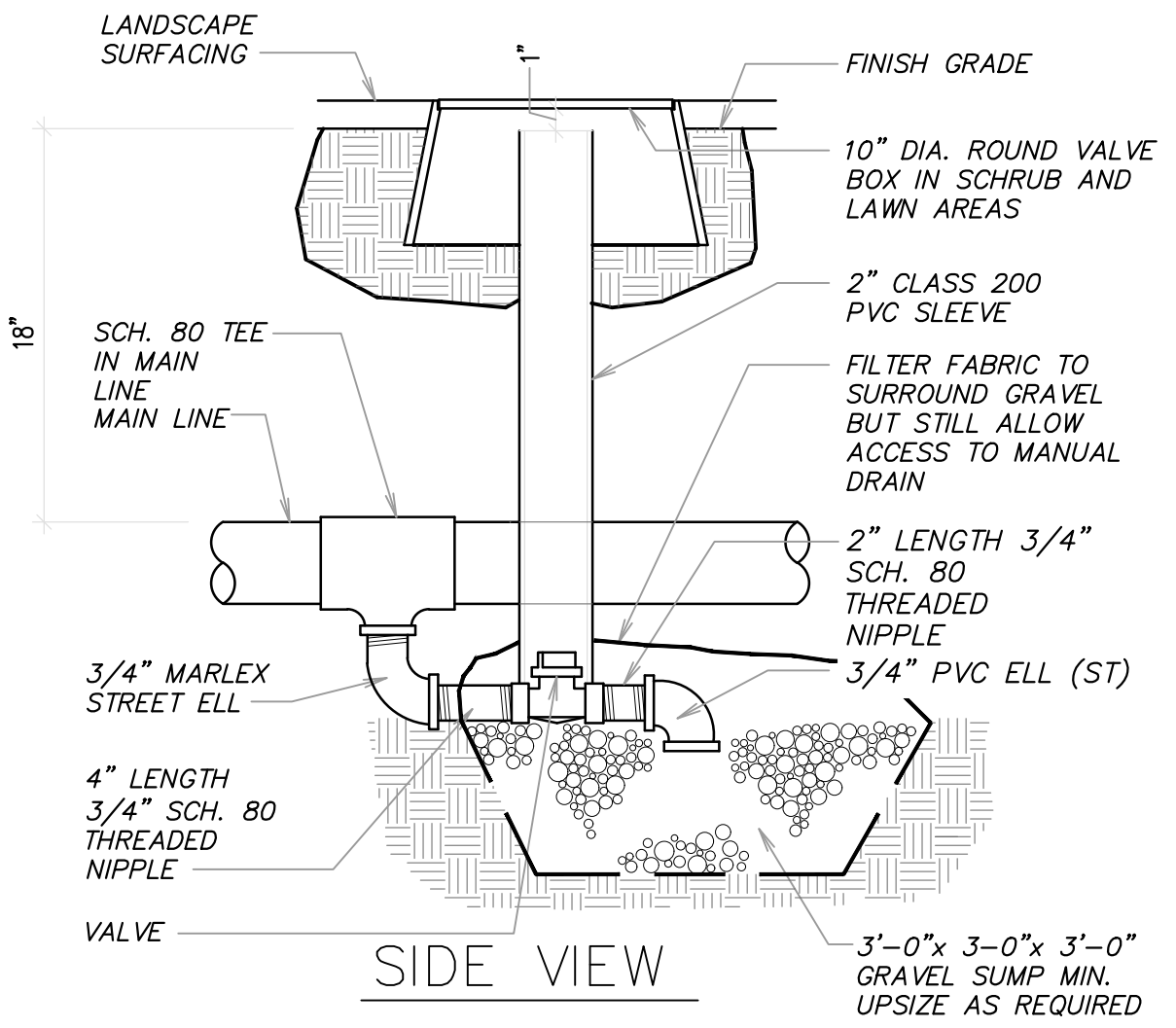
1" = 1'-0"

328406-03

6 DRAIN VALVE

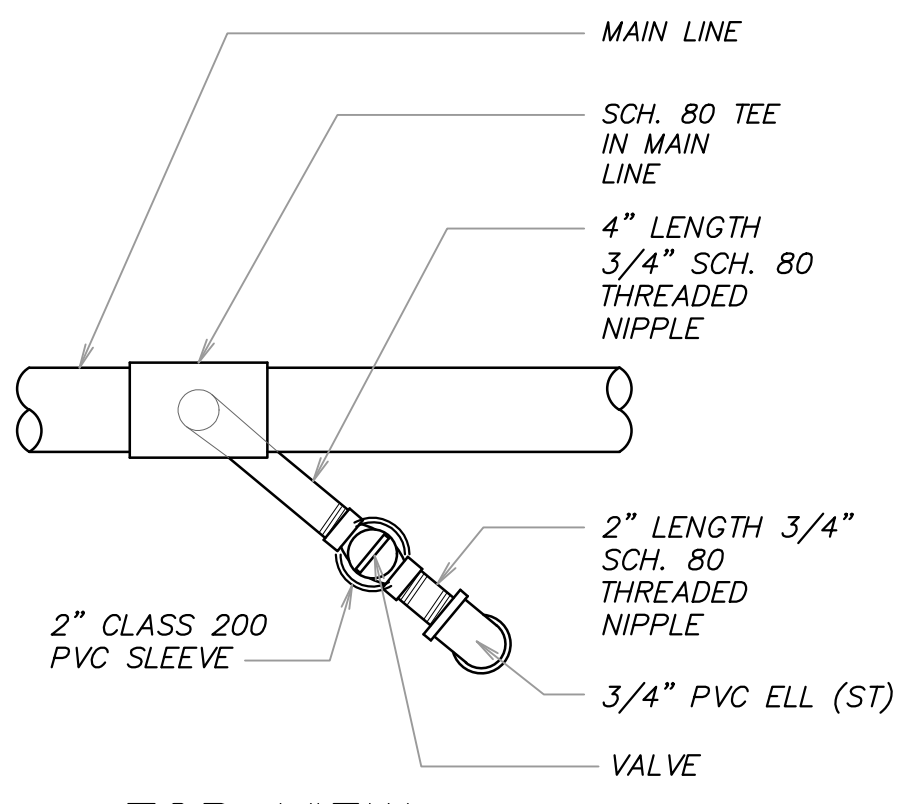
1/8" = 1'-0"

328406.10-01

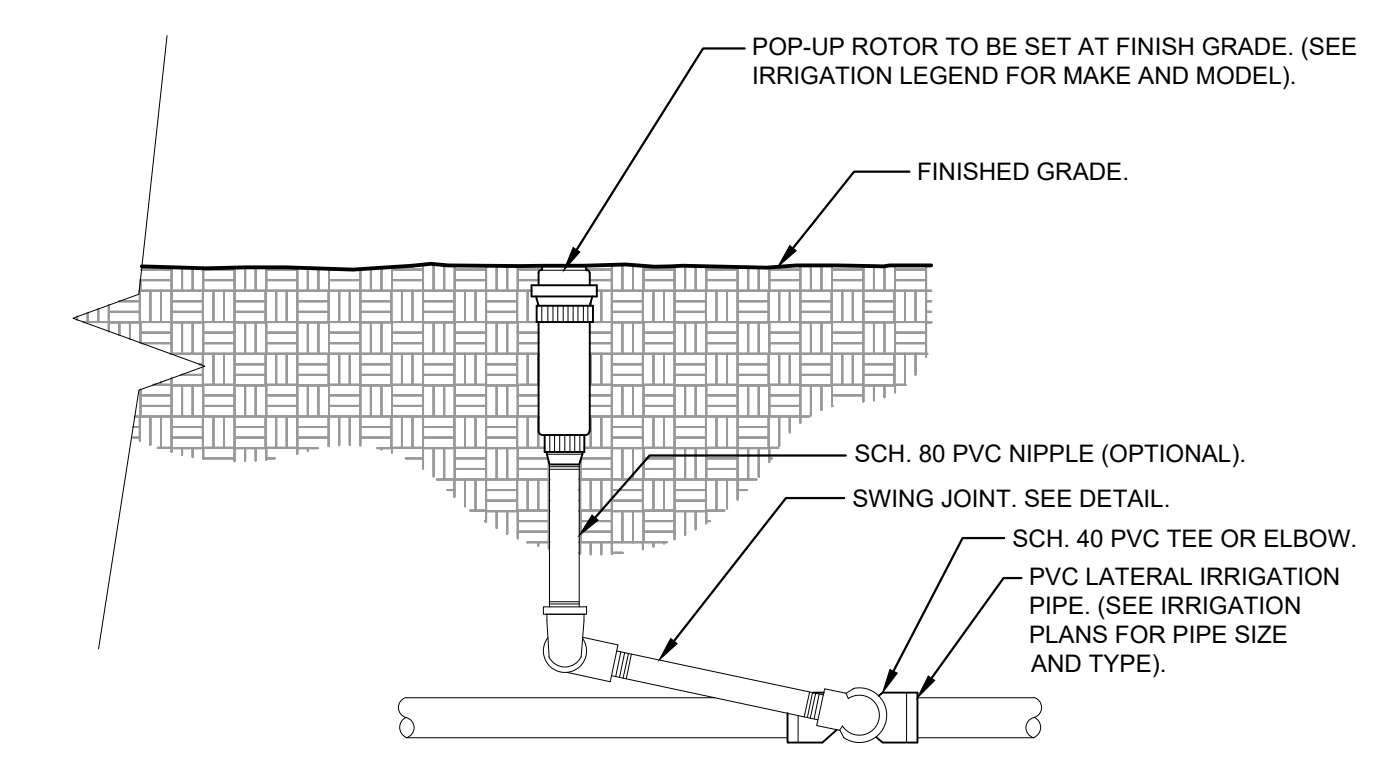


SIDE VIEW

NOTE:  
DRAIN INTO CENTER OF GRAVEL SUMP



TOP VIEW

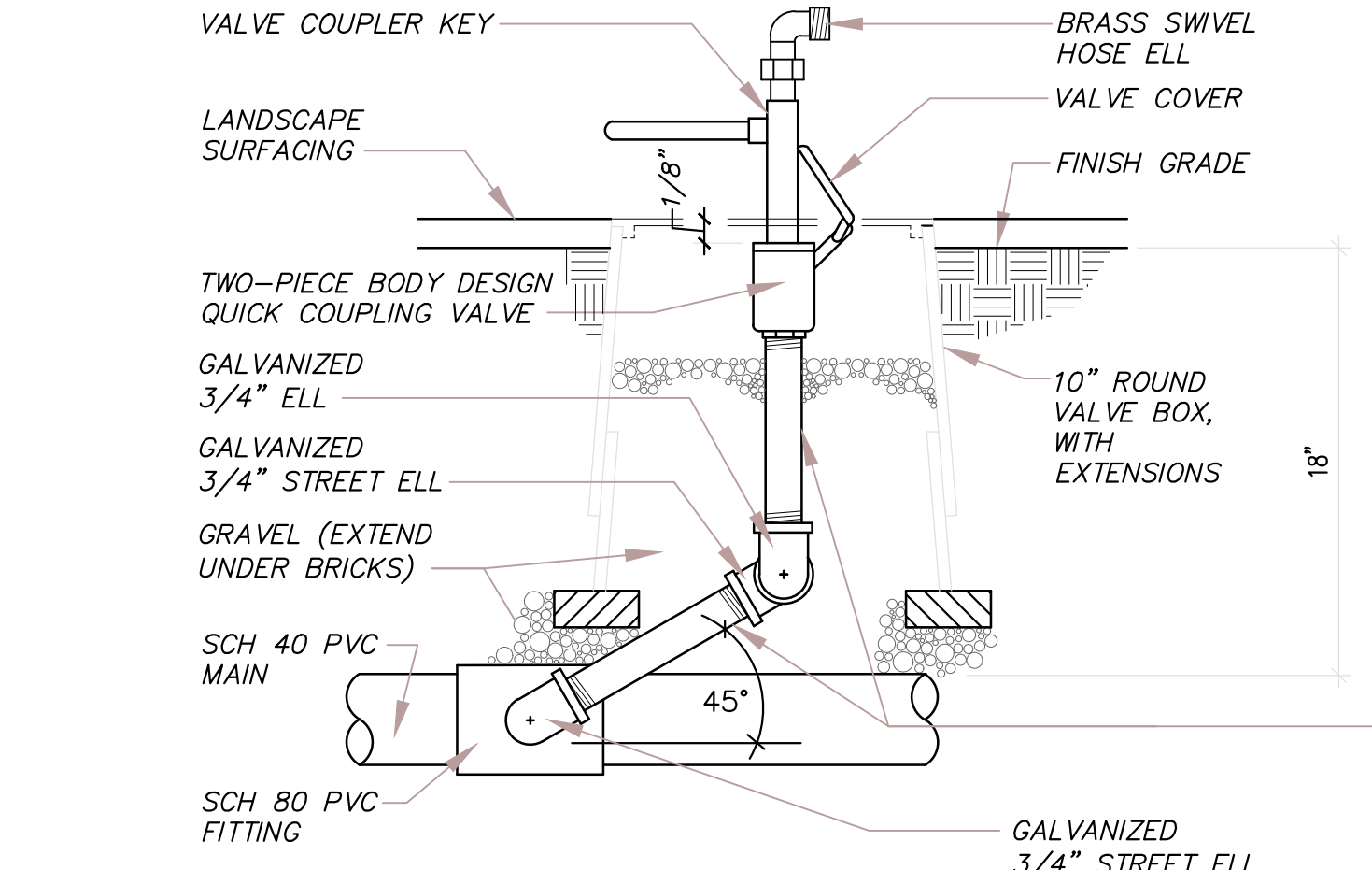


- NOTES:  
 1- ALL THREADED CONNECTION POINTS BETWEEN SCH. 40 PVC AND SCH. 80 PVC FITTING SHALL BE INSTALLED USING TEFLON TAPE.  
 2- CONTRACTOR SHALL COMPACT SOIL AROUND ROTOR AND RISER PRIOR TO PLANTING, PLUGGING, SEEDING, OR LAYING OF SOD.

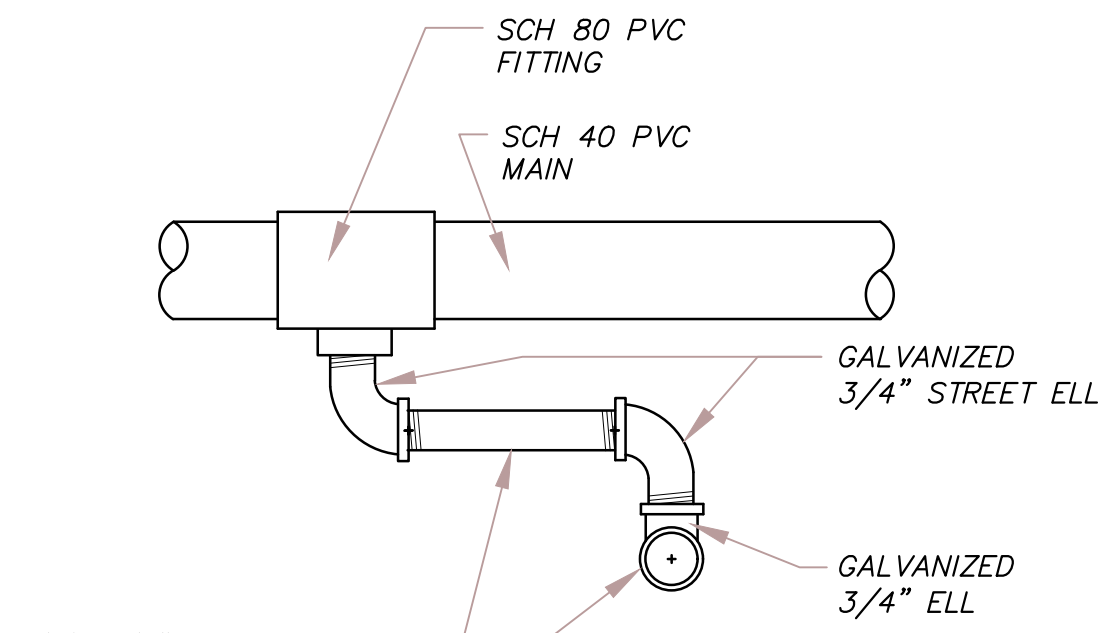
7 ROTOR SPRAYHEAD

1 1/2" = 1'-0"

FX-IR-FX-HEAD-01



SIDE VIEW

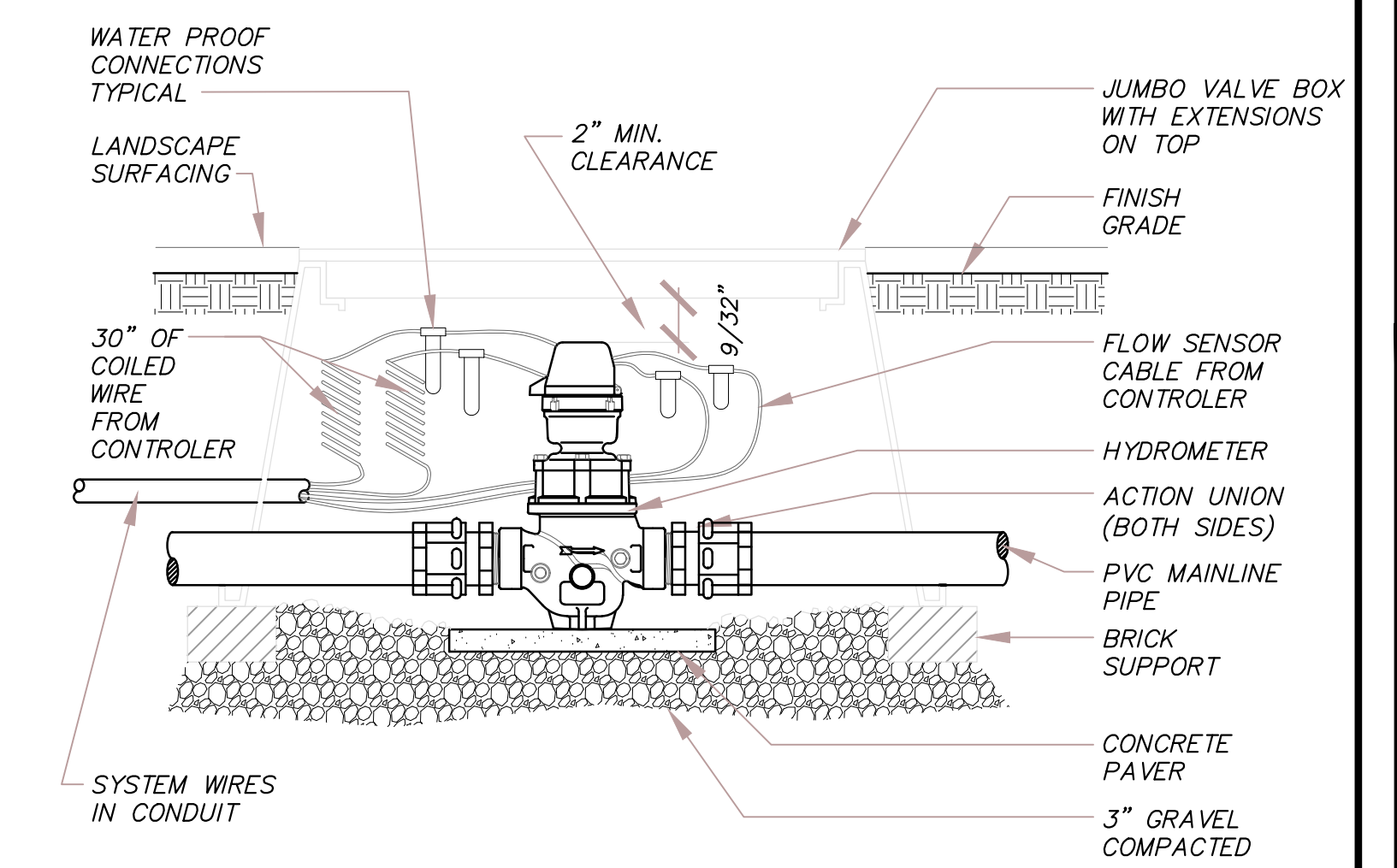


TOP VIEW

8 QUICK COUPLER

1" = 1'-0"

328409.09-01



9 HYDROMETER

1" = 1'-0"

328409.63-02

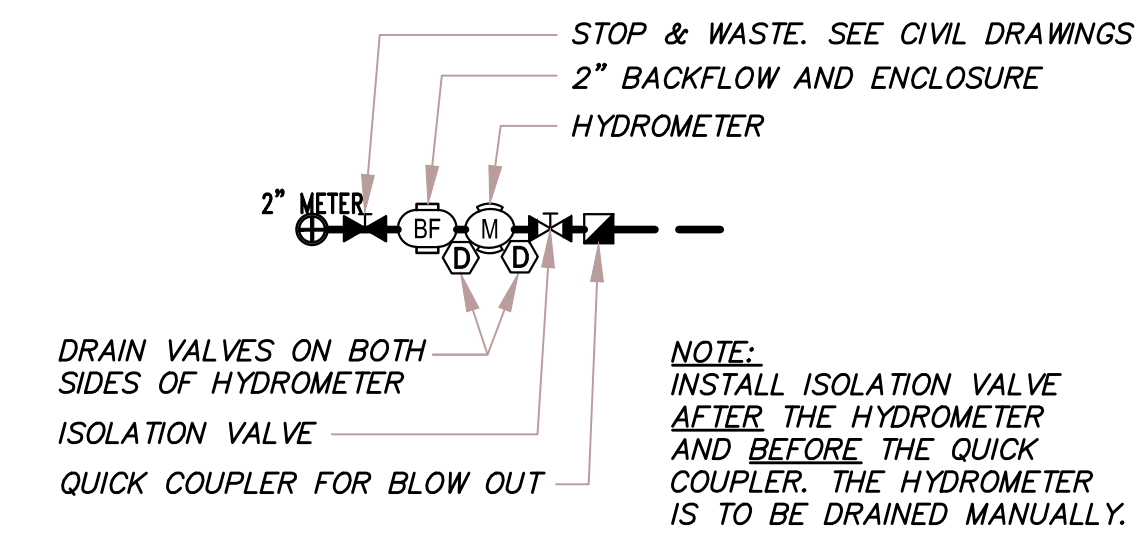
NO.	DATE	DESCRIPTION

MAPLE VIEW PARK  
 200 SOUTH 1400 WEST  
 LOGAN, UTAH, 84321

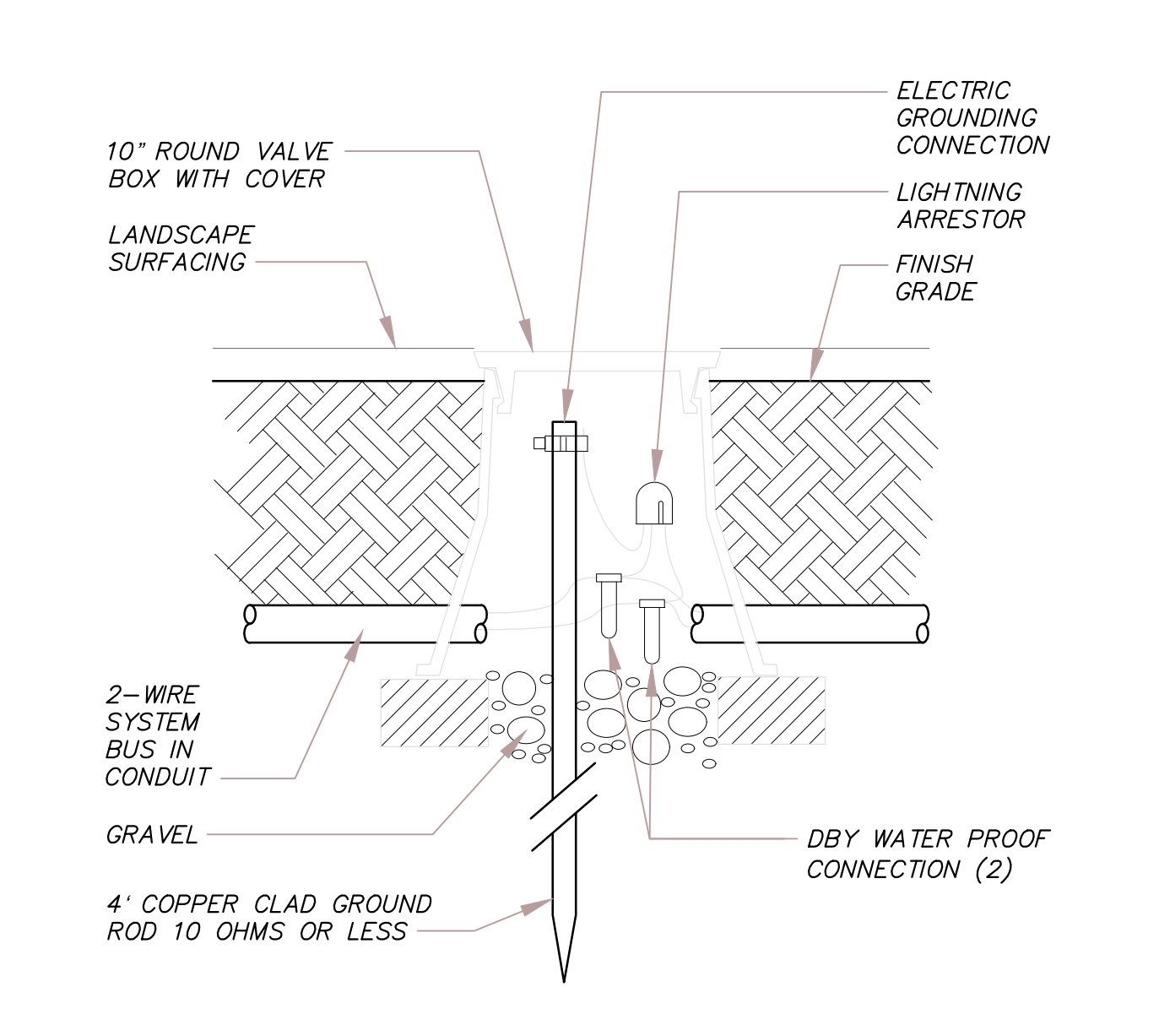
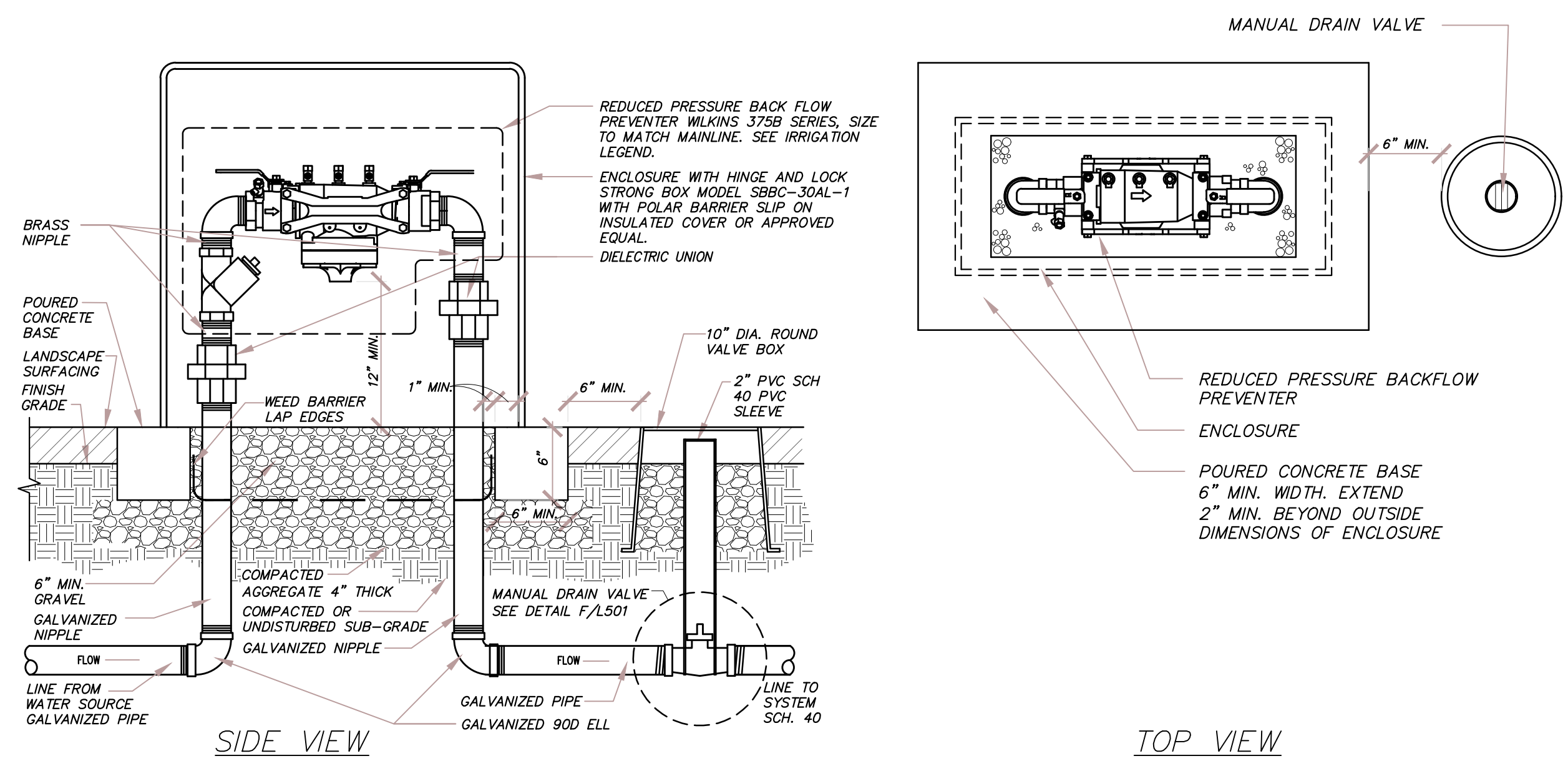
Cache • Landmark  
 Engineers  
 Surveyors  
 Planners  
 95 Golf Course Rd.  
 Suite 101  
 Logan, UT 84321  
 435.713.0099

DATE: 03 DECEMBER 2024  
 SCALE: NA  
 DESIGN BY: J. MAUGHAN  
 CHECKED BY: J. MAUGHAN  
 APPROVED BY: J. MAUGHAN  
 PROJECT NUMBER: 620-2005  
 SHEET:

L-504



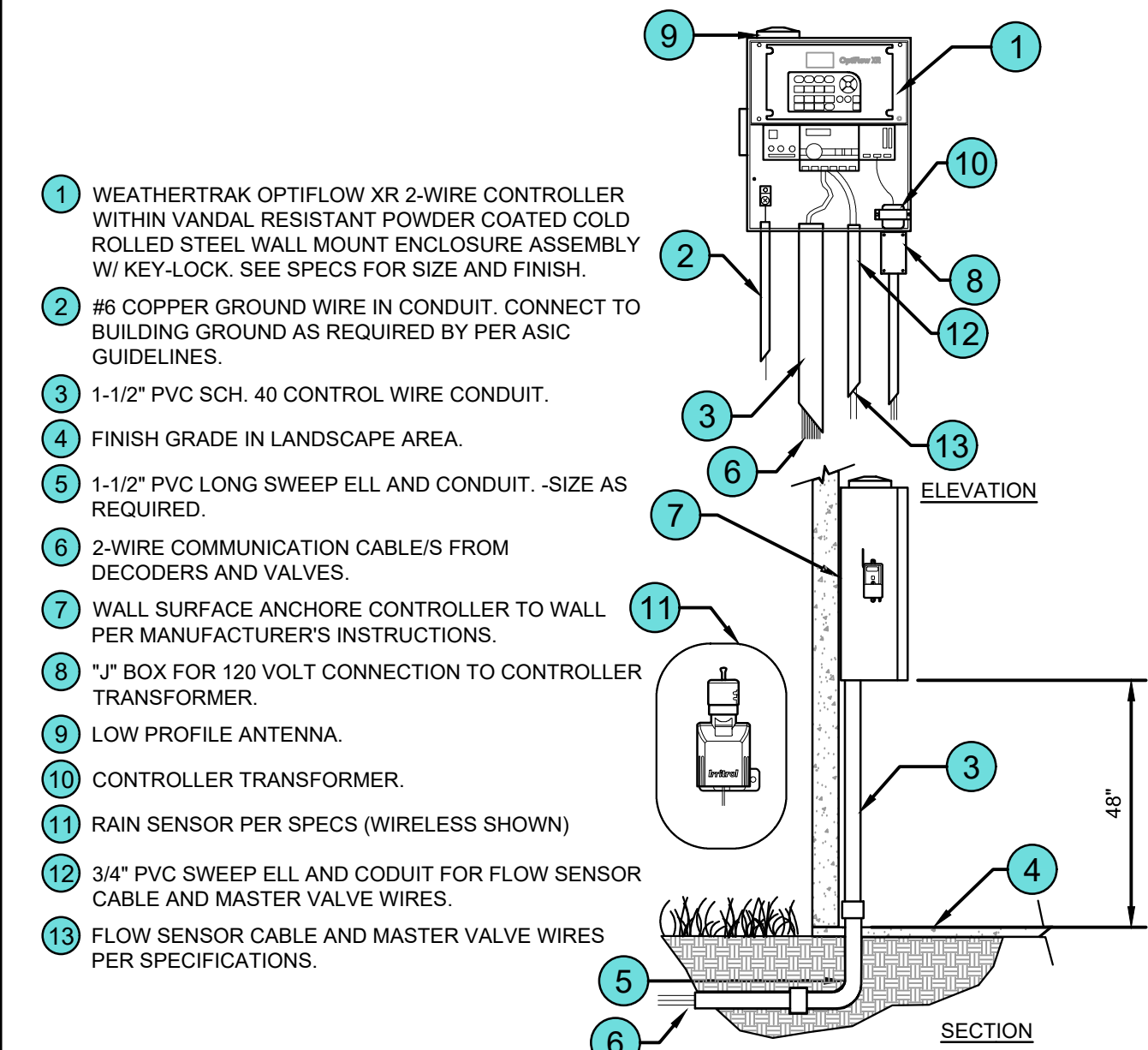
**BACKFLOW PREVENTER ASSEMBLY**



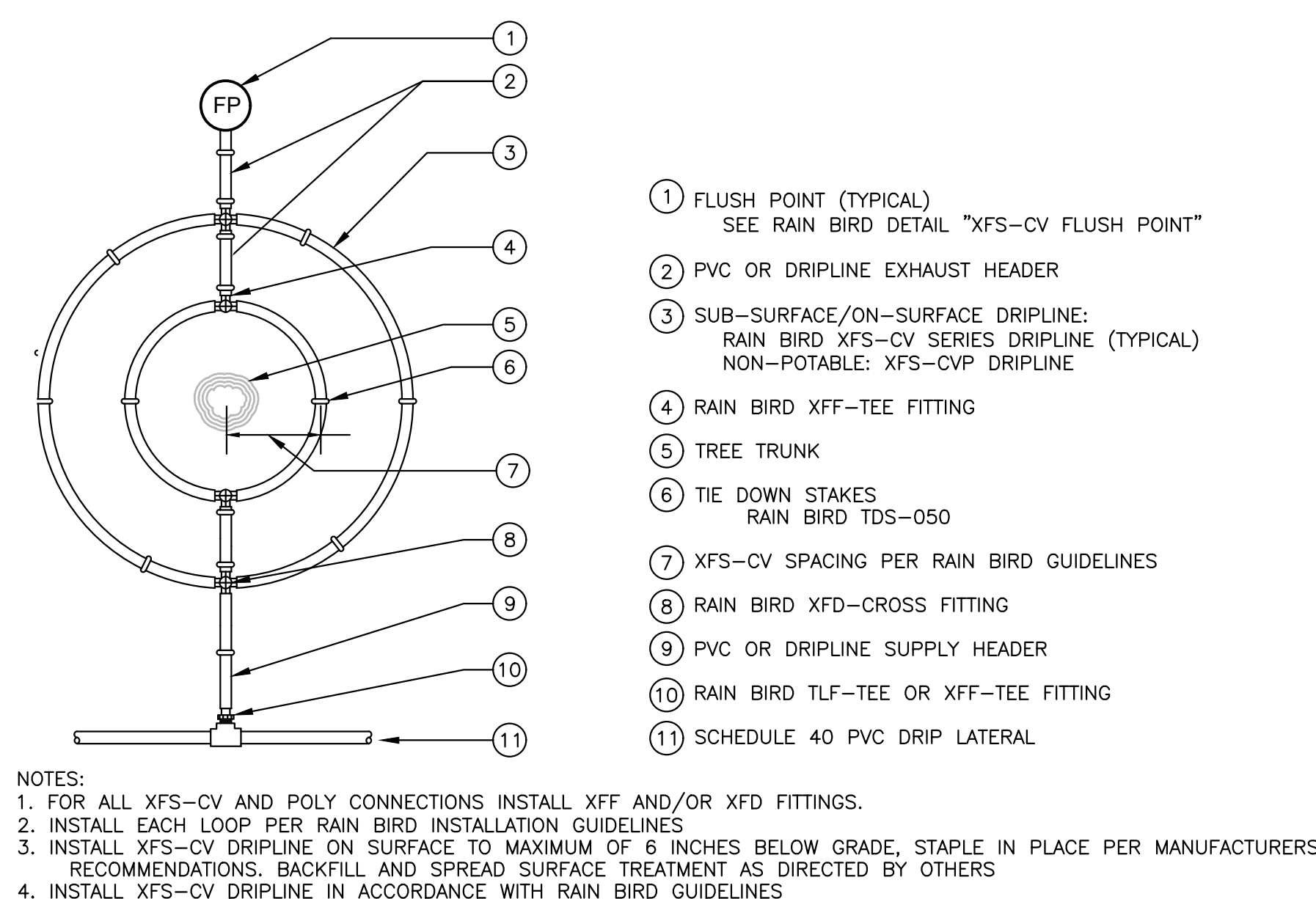
**1 POC SCHEMATIC LAYOUT**  
1" = 1'-0" 328409.10-01

**2 REDUCED PRESSURE BACKFLOW PREVENTER**  
3/4" = 1'-0" 328409.43-05

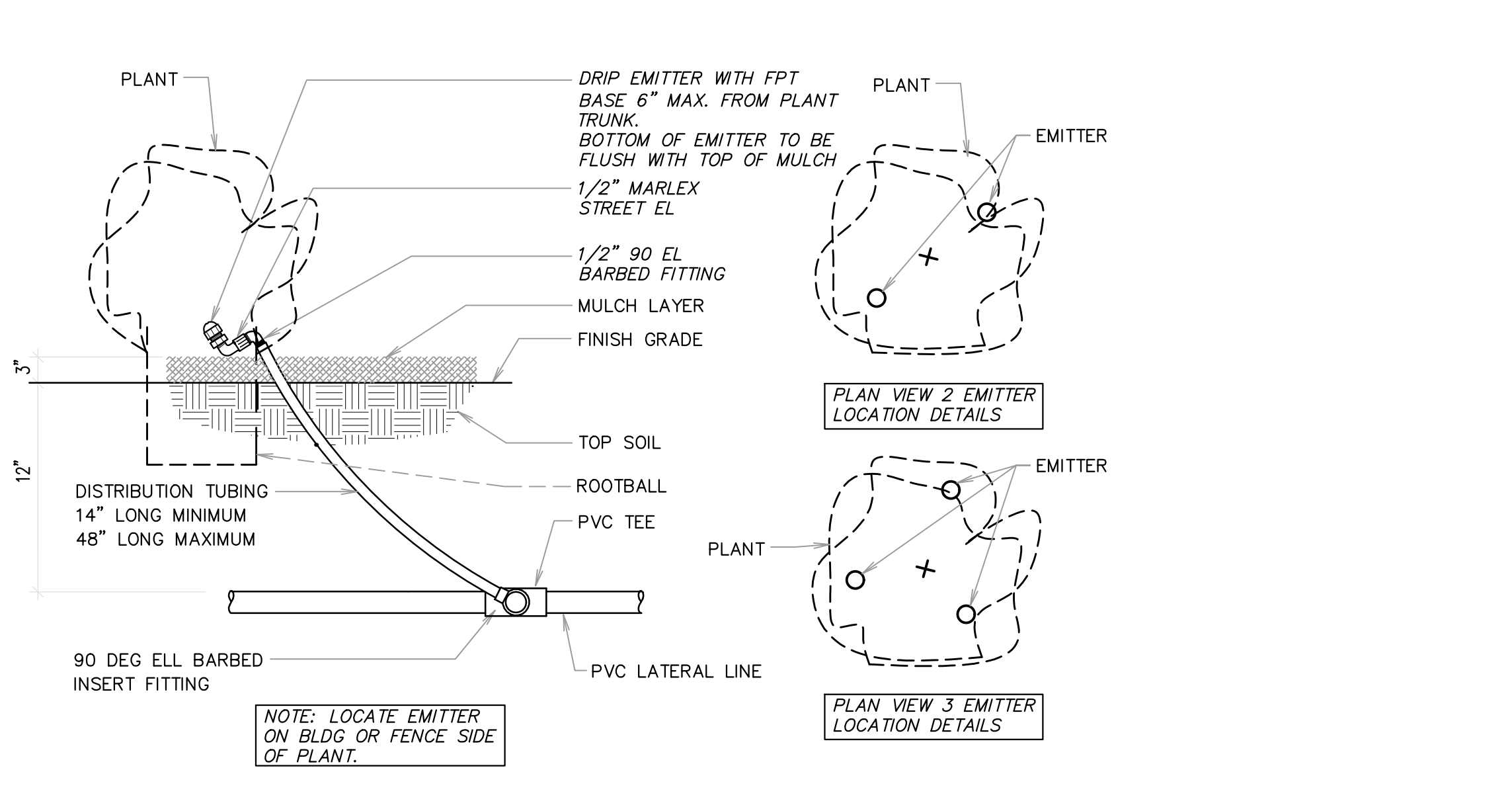
**3 LIGHTNING ARRESTOR TWO-WIRE SYSTEM**  
1" = 1'-0" 328409.11-01



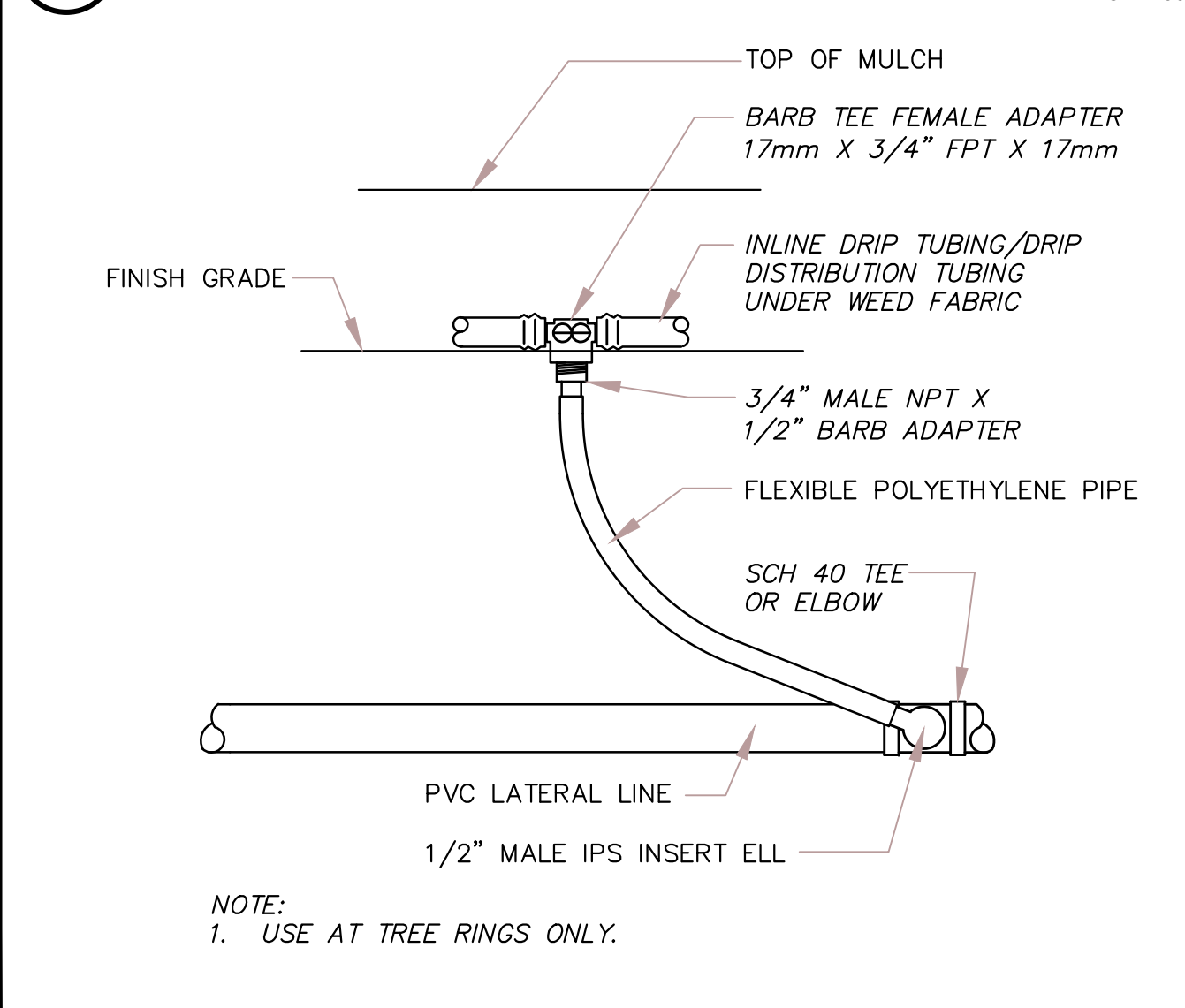
**4 WEATHERTRAK OPTIFLOW XR 2-WIRE MOUNT INDOOR**  
NOT TO SCALE FX-IR-HPDS-OPTI-06



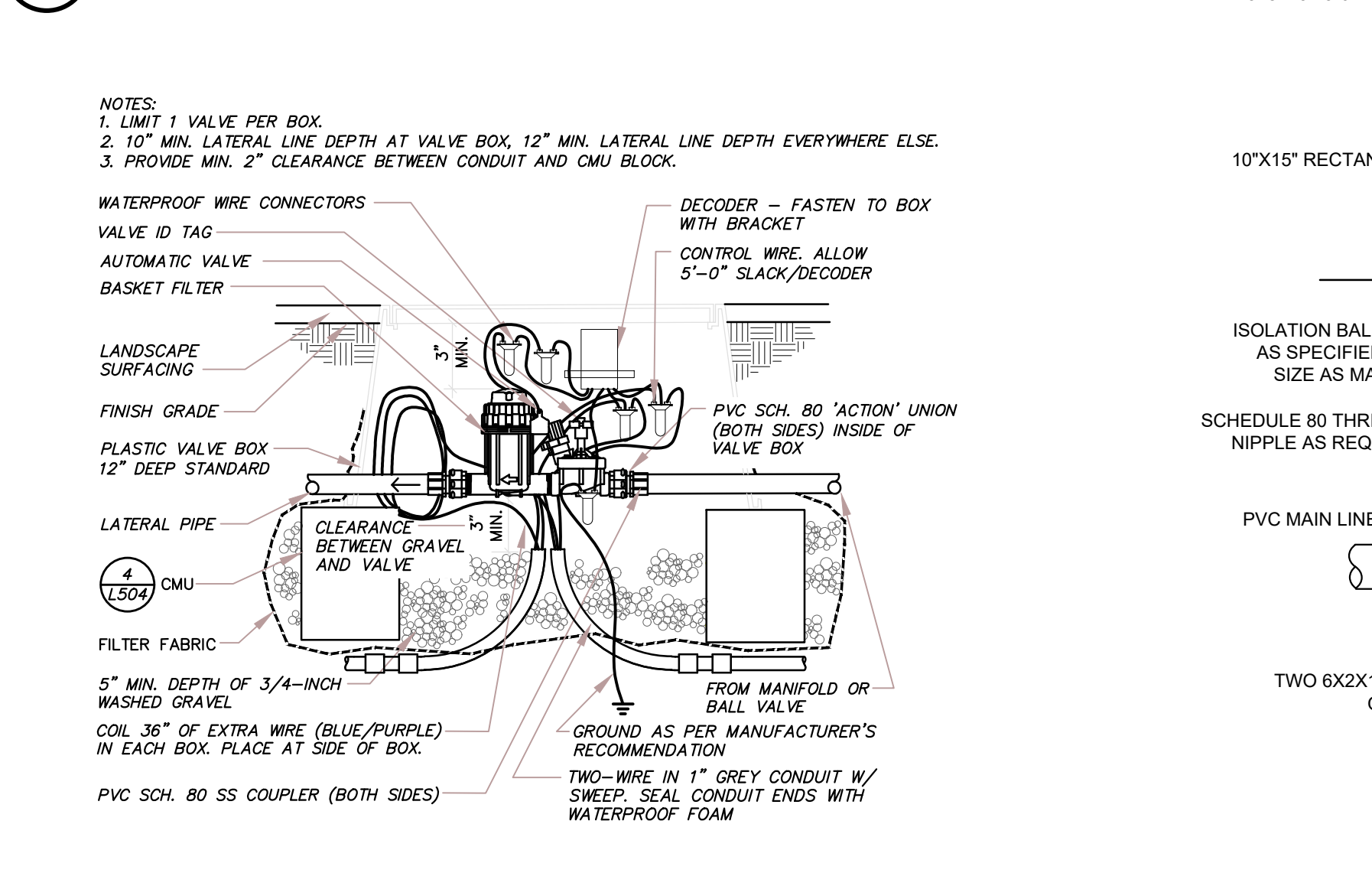
**5 DRIP RINGS**  
3/4" = 1'-0" 328413.25-01



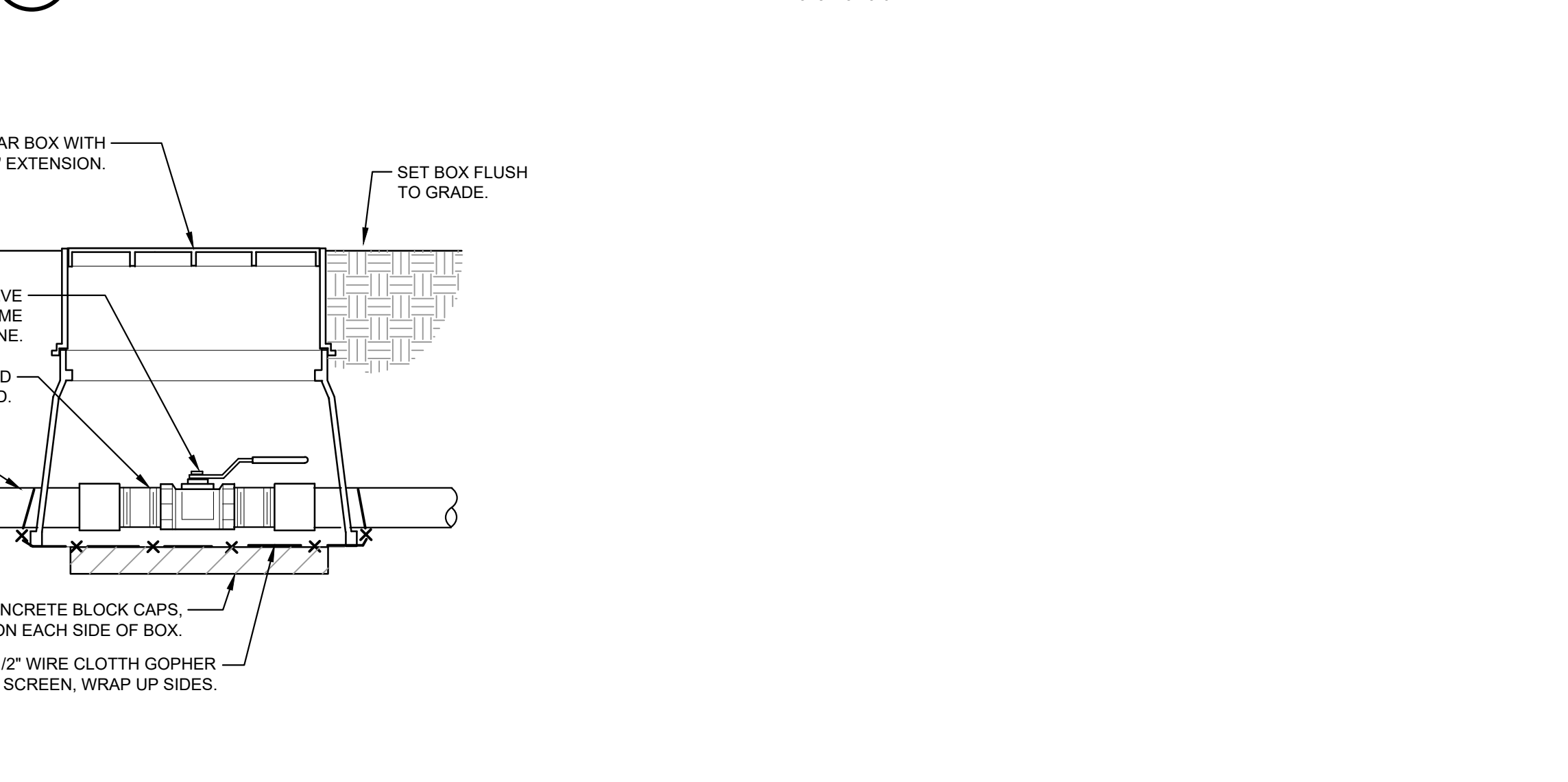
**6 POINT SOURCE DRIP EMITTER**  
1/8" = 1'-0" 328413.13-01



**7 PVC TO PE PIPE CONNECTION**  
1" = 1'-0" 328413.43-05



**8 DRIP VALVE ASSEMBLY SECTION - TWO-WIRE SYSTEM**  
3/4" = 1'-0" 328413.76-03



**9 BRASS BALL ISOLATION VALVE**  
1 1/2" = 1'-0" FX-IR-FX-ISOV-02

DESCRIPTION:

NO. DATE:

**IRRIGATION DETAILS**

MAPLE VIEW PARK  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321

Cache • Landmark  
Engineers  
Surveyors  
Planners

95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024

SCALE: NA

DESIGN BY: J. MAUGHAN

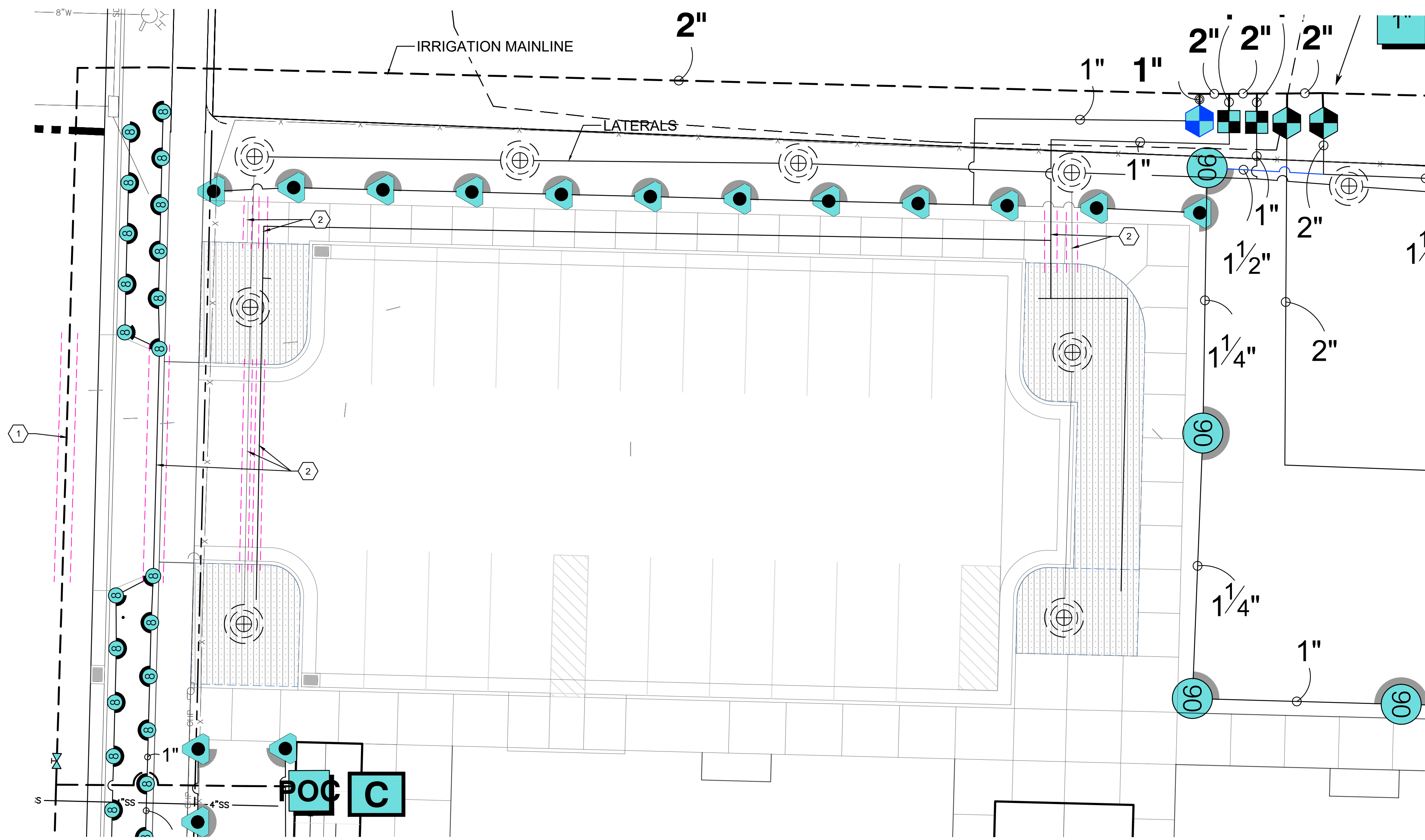
CHECKED BY: J. MAUGHAN

APPROVED BY: J. MAUGHAN

PROJECT NUMBER: 620-2005

SHEET:

**L-505**



**IRRIGATION SLEEVING NOTES**

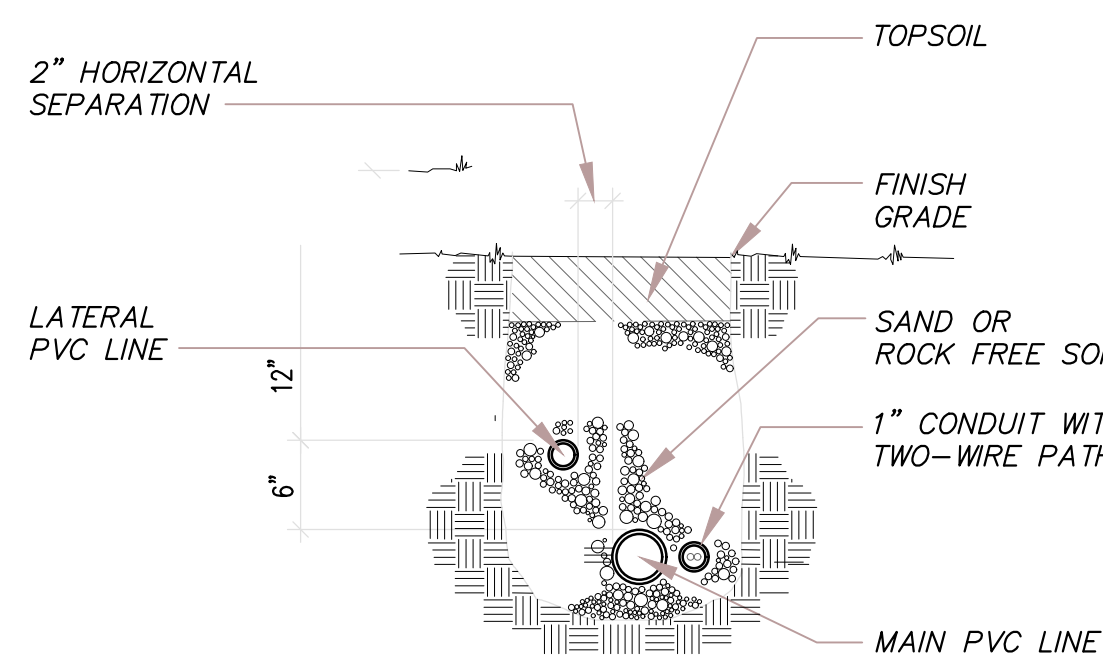
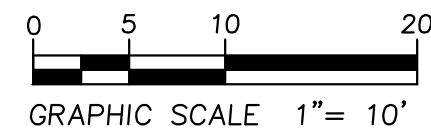
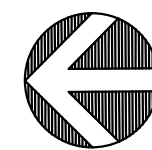
1. THIS PLAN IS DIAGRAMMATIC, SOME SYSTEM COMPONENTS ARE SHOWN IN PAVED AREAS AND BUILDINGS FOR CLARITY AND LEGIBILITY. **ALL IRRIGATION EQUIPMENT AND COMPONENTS ARE TO BE INSTALLED IN LANDSCAPE AREAS. SEE DETAILS 1 & 2 THIS SHEET FOR SLEEVING UNDER PAVEMENT.**

2. CONTRACTOR TO LOCATE SLEEVES WHERE MAINLINE AND LATERAL IRRIGATION LINES CROSS UNDER ANY PAVED SURFACE AS SHOWN ON PLAN. SLEEVES SHALL BE TWO SIZES LARGER THAN PIPES TO BE SLEEVED. MULTIPLE SLEEVES MAY BE PLACED IN A SINGLE TRENCH. SLEEVES TO EXTEND 6" BEYOND PAVED SURFACE ON EACH SIDE. WIRES ARE TO BE SLEEVED UNDER PAVED SURFACES. **SEE 1 & 2 THIS SHEET.**

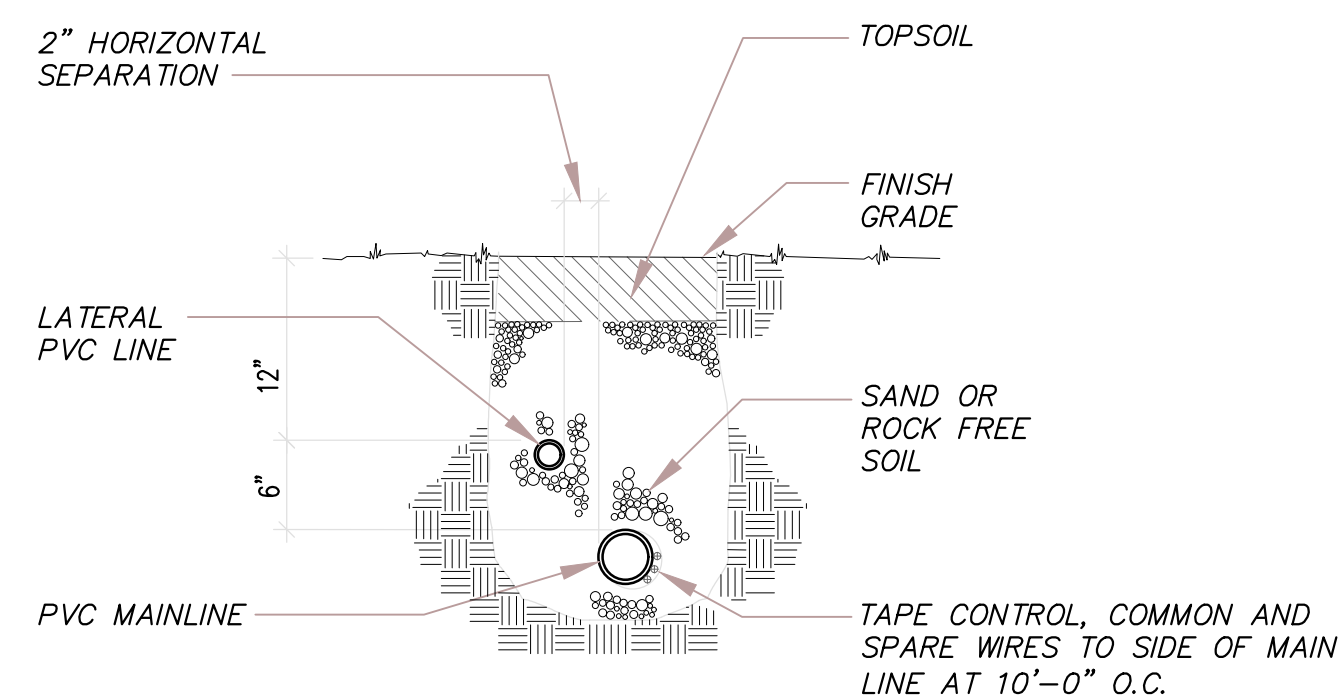
**IRRIGATION KEYED NOTES**

- 1 MAINLINE SLEEVE - 2" MAINLINE
- 2 LATERAL SLEEVE - 1" SIZE LATERALS

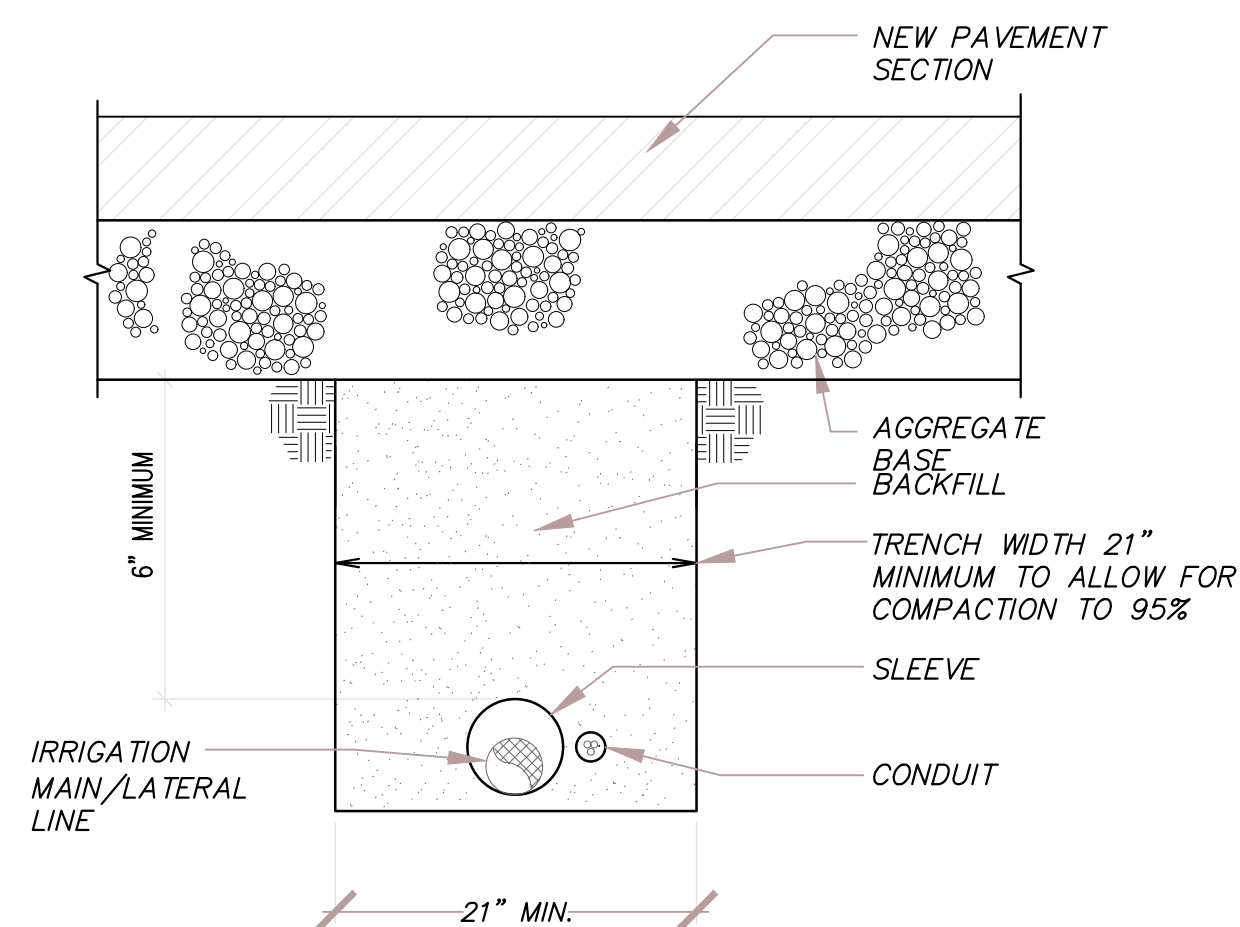
**IRRIGATION SLEEVING DETAIL**  
SCALE: 1" = 10'



**TWO-WIRE SYSTEM**



**CONVENTIONAL WIRE SYSTEM**



**MISC. PIPE TRENCH NEW PAVEMENT**

**1 TRENCH DETAIL**  
1" = 1'-0"

**2 MISC. PIPE TRENCH NEW PAVEMENT**  
1" = 1'-0"

328409.76-16

328409.76-17

DESCRIPTION:

NO. DATE:



SHEET DESCRIPTION:

**SLEEVING  
DETAILS**

**MAPLE VIEW PARK**  
200 SOUTH 1400 WEST  
LOGAN, UTAH, 84321



Cache • Landmark  
Engineers  
Surveyors  
Planners

95 Golf Course Rd.  
Suite 101  
Logan, UT 84321  
435.713.0099

DATE: 03 DECEMBER 2024

SCALE: NA

DESIGN BY: J. MAUGHAN

CHECKED BY: J. MAUGHAN

APPROVED BY: J. MAUGHAN

PROJECT NUMBER: 620-2005

SHEET: